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DS Parts - Air Brake Catalog and Application Guide

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Credits:Dictionary ofAir BrakeTerms,Understanding theAir BrakeSystems,and Troubleshooting Flowcharts are based on articles from Commercial Carrier Journal's *The Air Brake Book - 4th Revised Edition.* The troubleshooting flowcharts are based on the Air Brake Troubleshooting Guide by Darwin Burkholder and Ray Tinnel. Photography: Cover photography Brainerd Portaiture, Bluefield, West Virginia. Product photography and layout: DS Graphics

Actuate: The initiation of mechanical motion in a brake system component.

Actuator: A device which transforms compressed air into mechanical force and motion. For example, in a cam brake system a push rod actuates the foundation brake system that forces shoes against a brake drum. Brake actuators are available in several different "types" and combinations that provide a variety of output forces and functions. "Type" refers to the effective diaphragm area in square inches.

Aftercooler: (See Air dryer) Device typically installed between the compressor and the main air reservoir to remove water, vapor, and oil from the air system. An aftercooler condenses and eliminates water from air pressurized by the compressor.

Air build-up: The process of a compressor building air pressure up to a maximum level (Normally a range of 100 to 120 psi) in the brake system's air tanks.

Air compressor: An air pump that is driven by either a belt (pulley) or gear (direct engine mount). The compressor supplies air to the air reservoirs or tanks in the system.

Air compressor cut-out: The point at which an air governor signals the unloaders on the compressor to stop building up air to the main air reservoir. (Normally between 100 and 120 psi.)

Air disc brakes: A disc brake system employing a caliper to clamp brake pads against a rotor that is actuated by air.

Air dryer: A device that is installed between the compressor and service reservoir to remove water and vapor plus oil blow-by from the compressor. There are two types of air dryers; desiccant and aftercooler. A desiccant type air dryer will remove virtually all water and water vapor from an air system. The desiccant is normally contained in a replaceable cartridge that is available remanufactured exchange. (See Aftercooler)

Air governor: Signals the unloading mechanism on the compressor when to build up air to the reservoir and when to halt air build up. Usually between 100 and 120 psi.

Air gauge: A gauge that indicates air pressure in terms of pounds per square inch.

Air reservoir or Air tank: A reservoir for compressed air. The tractor's supply air tank (Also known as a "wet tank") receives air from the compressor and delivers it to the primary and secondary air tanks in the tractor. A trailer also has a primary and secondary tank. Check valves on the tanks prevent total air loss in the event of a leak.

Alcohol evaporator: A device that can be installed in the compressor discharge line between the compressor and the main air reservoir. It injects alcohol mist into the air flow to reduce the risk of freeze-up. Alcohol evaporators are not normally used on vehicles equipped with air dryers.

AL factor: A mathematical expression of the slack adjuster and brake chamber combination. **"A"** equals the effective area, in square inches, of the brake chamber (For example a Type 30 chamber has effective area of 30 sq. in.). **"L"** equals the effective length, in inches, of the slack adjuster. (For example, 30 x 6 in. = 180 A.L. factor.)

Anchor pin: A pin used to retain brake shoes within the foundation brake assembly.

Anti-compounding: A system that prevents application of service brakes from compounding (adding to) the force exerted by parking brakes. This guards against brake drum cracking and lining damage.

Anti-lock: A system which senses wheel rotation (at one or more axles) during braking and cycles the brakes to prevent locking those wheels.

Application time: Time elapsed between application of the foot valve and brake shoe lining contact with the brake drum (FMVSS 121 defines this as the point at which all service chambers reach 60 psi).

Application valve: Air valve, such as the foot valve, hand valve or trailer control valve, which controls the pressure delivered to brake chambers.

Bell-mouthed drum: Drum with variation of inner diameter (For example, thicker at the open end), that prevents full contact with brake linings.

Bobtail brake proportioning: Safety oriented system for limiting drive axle brakes while a tractor is operated without a trailer. Improves the ability of the tractor to stop when operating in a bobtail mode. (See Ratio limiting valve.)

Blue drum: Brake drum with a friction surface that has been blued by operation at high temperatures. High temperature may result from dragging the brakes or from a poorly balanced brake system.

Brake balance: Brake balance is achieved when the brakes on all axles of a truck, tractor, or combination of tractor and trailers do their fair share of the work to stop the vehicle.

Brake block: Friction material or lining attached to a brake shoe.

Brake chamber: Device that utilizes a diaphragm to convert air pressure to mechanical force, via a push rod,

Brake chamber - Continued:
to actuate the brakes (See actuator).

Brake drag: Occurs when one or more brakes in a system fails to release at the time the driver removes his foot from the brake pedal. Drag can be caused by an improperly balanced brake system or malfunction of components in the foundation brake.

Brake fade: A reduction in braking force. There are two major causes of brake fade. (1) Mechanical fade, which can be caused by defects in the foundation brake system causing the brakes to overheat. An example of this is poorly adjusted brakes causing an overheated drum to expand to a point that proper shoe to drum contact does not occur. (2) Heat fade, which occurs as brake linings heat up and a reduction in braking force occurs (See Coefficient of friction). Friction manufacturers supply brake linings in a variety of mixes with different fade characteristics.

Breakaway valve: Protects the tractor air brake system in the case of accidental separation of a tractor and trailer. (See Tractor protection valve.)

Burnish: The conditioning or "seasoning" of a brake lining by wear and temperature via a test procedure or in service operation.

Caging (caging tool): The act of mechanically locking the parking or emergency spring in a piggyback or tandem springbrake in a compressed or unapplied state. A "caging tool" is commonly used for this purpose.

Caliper: In an air disc brake system, the clamping device containing friction material. When actuated, the caliper applies braking force to both sides of the rotor.

Check valve: A one-way check valve is used to prevent air from bleeding back into a reservoir. A double check valve is used when a single function or component is controlled by either of two sources of air pressure. It always transmits the higher of the two signals to the outlet port.

Clevis pin: Pin connecting the arm of a slack adjuster to a brake chamber push rod yoke.

Coefficient of friction: The amount of friction developed by any two bodies in contact. This is expressed by stating the amount of force required to move the one body while it remains in contact with the other; the amount of force is expressed in relation to the weight of the moving body (See Edge codes).

Combination valve: A valve that combines and performs two or more functions in the air brake system. For example, a combined double check valve and stop light switch.

Control valves: Dash mounted valves that are used extensively in the air system to control various system components. They are supplied by manufacturers in either a knob (push-pull) or lever operated configuration. (See Push-pull and lever type valves.)

Cracked drum: A brake drum can be cracked all the way through by excessive heat, driver abuse, or resurfacing the drum past manufacturer's specifications.

Crack pressure: The amount of air pressure required to open an air valve expressed in pounds per square inch (psi).

Dash valves: (See Control valves.)

Diaphragm: A formed rubber part installed in the brake chamber that converts air pressure to mechanical force via a push rod. Diaphragms are sized in "types" which indicates the surface area expressed in square inches. (For example, a type 30 brake diaphragm has 30 square inches of effective surface.)

Dolly control valve: A term that is used to describe a pressure equalizing relay valve that has a 0 psi differential between the service and delivery ports. They are used exclusively on semi-trailer converter dollies.

Drain valve: A valve that is installed directly into the bottom port of an air brake reservoir to drain oil and water. The valve can be operated either automatically or manually. Normally they operate automatically at specific ascending or descending reservoir pressures. Automatic drain valves are also available in heated versions. The drain valve is often referred to as a "spitter valve."

Dual brake system: Required by FMVSS-121, a dual air brake system assures braking in the event that one system fails. It incorporates two separate systems for service and secondary braking.

Dual circuit foot valve: Foot operated valve that controls the delivery of air to the brake system. Simply stated, it provides the driver with a means of applying and releasing the brakes. Normally used on post FMVSS-121 vehicles. The dual foot valve has two separate circuits for service and secondary braking. Braking ability is maintained in the event that one circuit fails.

Duplex gauge: A diagnostic device with two separate air gauges and a common housing utilizing indicator needles of different colors. It is used to diagnose brake system imbalance within a combination vehicle via simultaneous connection to two points such as the tractor gladhand and a trailer brake chamber.

Dust shield: Plate mounted behind a brake drum to minimize entry of dirt and road splash.

Edge codes: Based on standards for coefficient of friction developed by the Friction Materials Standards Institute (FMSI), and prescribed by SAE Recommended Practice SAE J866a. The edge code is a double-letter code (For example; EE, FF, GG) printed on the edge of a brake block. The first letter of the edge code reflects the normal friction coefficient of a material, and the second letter represents the hot friction coefficient. The letters represent a coefficient range and do not reflect all of the characteristics necessary for performance in a friction material.

Emergency brake system: An integral part of the air brake system circuit that provides for emergency braking in the event of an air loss.

Engine brake: Device that converts an engine into a power absorbing air compressor to slow a vehicle on downgrades.

Exhaust brake: Device that uses engine exhaust back pressure to slow a vehicle on downgrades.

Foot valve: A foot operated valve for applying air to the brake system. (See Dual circuit foot valve and Single circuit foot valve.)

Foundation brake system: Includes all of the mechanical components of the brake system such as brake chambers, slack adjusters, brake shoes and linings, and brake drums.

Front axle limiting valve: (See Ratio limiting valve.)

GCW: Gross Combination Weight or the total weight carrying capacity of a combination vehicle (Tractor and Trailer) as determined by axle ratings.

Governor: Signals the unloading mechanism on the compressor when to build up air to the compressor and when to halt air build up. (Usually between 100 and 120 psi.)

Gladhand: Connector used to attach a tractor's or converter dolly's service and emergency air lines to those on a trailer.

GVW: Gross Vehicle Weight or the total weight carrying capacity of one vehicle as determined by axle ratings.

Hand valve: A hand operated device for applying air to the braking system. The hand valve is primarily used for independent control of trailer service brakes. As a result they are often referred to as "Trailer control valves."

Heat-checked drum: Brake drum with hairline cracks on the friction surface caused by thermal cycling. Mild checking normally does not warrant drum replacement.

Heat-spotted drum: Brake drum with a pattern of hard, slightly raised, dark spots on its friction surface. Caused by localized overheating and sudden cooling, those spots should be ground off to prevent drum cracking, uneven lining wear and loss of braking efficiency. If spots cannot be removed, the drum should be discarded.

Hold-off spring: A spring in a relay valve or quick release valve that's designed to hold off valve operation until a predetermined amount of air pressure is applied. (See Crack pressure.)

Hysteresis: Difference between "apply" and "release" output pressure of a brake valve.

Inversion valve: An inverting, on-off two way valve. Normally the valve is open, and it is closed by pressure from a different source. The inversion valve is used in sequencing and parking brake applications.

Jackknife: Uncontrollable articulation of a tractor-trailer typically resulting from lock-up of tractor drive axle(s). The risk of jackknife is greatest on a slippery road with an empty or lightly-laden trailer in tow.

Jake Brake: Trademark of engine brakes manufactured by The Jacobs Manufacturing Company.

Leak-down test: A popular method to check for air leaks. With the vehicle parked, the engine off, and the air system at maximum pressure, no more than a 3 psi per minute air loss should be noted on the dash mounted air pressure gauge.

Leveling valve: A valve used to maintain vehicle height with an air suspended chassis.

Lever type valve: A manually operated control valve normally installed in the dash board. It can have either two or three control positions, and is available in cable operated configurations. It is primarily used to control emergency and parking brakes.

Limiting and quick release valve: Mounted on the front axle, this valve limits the front axle brake application on slippery roads. It is controlled by a switch on the dashboard. In the normal position (dry road) it will deliver full application pressure. It also serves as a quick release valve for the front axle. Primarily used on pre-FMVSS-121 vehicles.

Lining growth: Permanent swelling of brake lining due to exposure to heat.

Low pressure warning device: Pressure-sensitive electrical switch that actuates an in cab buzzer and warning light when air pressure falls below a predetermined level. (Typically, 60 psi.)

Modulating control valve: A valve that is capable of delivering gradations of pressure. Normally used to

Modulating control valve - Continued:
modulate parking or emergency brakes. For example, a modulating relay valve will modulate the spring brakes if rear axle service pressure is lost.

Modular control panel: Integrated control assembly normally mounted in the dash board of a truck tractor. It provides some or all of the requirements for control of the air brake system.

Out-of-round drum: Brake drum with variations in its inner diameter, causing reduced braking efficiency and excessive wear on one side of the brake linings. An out-of-round drum often can be machined, within manufacturer's limits, to restore concentricity.

Oversized drum: Refers to a brake drum having an inner diameter greater than the discard diameter marked on the drum by its manufacturer.

Parking brake: (See Piggyback spring brake and spring brake.)

Piggyback spring brake: The portion of a tandem spring brake that is used solely for parking and emergency braking. The spring brake is applied on loss of service air pressure (emergency) or when activated by a dash valve (parking). The spring brake remains applied until the air system is charged or the spring is manually caged.

Pneumatic balance: Achieved when individual air chambers receive the air pressure required for each brake in the system to do its fair share of the work. Lack of pneumatic balance is most likely at low brake application pressures, rarely during panic stops.

Pneumatic timing balance: Achieved when individual air chambers sequentially receive air within a time frame that ensures each brake in the system will do its fair share of the work. In a combination vehicle, lack of proper timing is likely to occur because tractor brakes receive air notably faster than trailer brakes. (See Trailer push.)

Polished drums: A brake drum with a friction surface polished to a mirror-like finish by unsuitable brake linings. Remove gloss from drum with eighty grit emery cloth.

Pop-off valve: Term for a pressure relief valve, installed in the service reservoir or wet tanks as insurance against over-pressurization.

Pressure differential: Difference between the inlet and outlet air pressure of an open brake valve. Also, difference in air pressure between any two points within a brake system.

Pressure protection valve: Protects the brake system from accessory failure. Used to isolate and protect one reservoir supply from another by closing at a pre-determined pressure setting. They are also used in rapid air buildup systems where it delays the filling of the auxiliary reservoirs until a preset pressure is reached in the primary reservoir.

Pressure reducing valve: A valve that is used where a constant set air pressure lower than supply pressure is required. Typically this would be an air operated application that requires less than system air pressure.

Pumping the brakes: Phrase denoting a rapid series of brake applications, used to avoid locking axles during sudden stops. Phrase also may apply to a slower series of heavy brake applications used in an attempt to prevent brake overheating and resultant fade on long downgrades.

Push-pull valves: Manually operable, pressure sensitive on/off valves which will automatically return to the button out (exhaust) position when supply pressure is below the required minimum.

Push rod: A rod, protruding from a brake chamber, which is connected to the arm of a slack adjuster via a clevis pin.

Quick release valve: Decreases the release time on a brake application by rapidly exhausting air through itself rather than the controlling valve. It is normally installed adjacent to the device that is being controlled. A quick release valve reduces the chances of brake drag.

Ratio limiting valve: Prevents locking of front brakes by automatically limiting application pressure to the front axle brakes during normal braking. As brake application pressure is increased, the percentage of reduction is decreased until a preset pressure is reached. A preset "hold-off" pressure prevents the front brakes from operating until the "hold-off" pressure is reached. Used on post FMVSS-121 vehicles only.

Relay emergency valve: A dual function valve used on trailers. (1) It serves as a relay valve that applies and releases the service brakes, and (2) it incorporates an emergency feature that automatically applies the service brakes in the event that supply air is lost. Relay emergency valves are normally used on pre-FMVSS-121 vehicles and off road applications.

Relay valve: Used to rapidly apply rear axle(s) service or parking brakes. When signaled by the service brake valve, they graduate, hold, or release pressure from the chambers to which they are connected. The relay valve is used to balance the timing of air application on the vehicle. This is determined by the factory preset "crack pressure" of the valve. Crack pressure is set on a relay valve by a "hold-off" spring that retards valve

Relay valve - Continued:
operation until a predetermined amount of air pressure is exerted.

Release time: Time between release of brake treadle and total disengagement of brake linings and brake drums. Or, per FMVSS-121, that time required to reduce pressure to 5 psi from 95 psi within all service chambers.

Retarder: Auxiliary braking device; engine brake, exhaust brake, hydraulic retarder, or electric retarder.

Return springs: Springs which retract brake shoes upon release of the brake treadle.

Roll-over: Jargon denoting that an "S" cam has traveled beyond its designed stopping position during brake application.

S-cam brake: Type of brake where mechanically-induced rotation of an S shaped cam forces brake linings against the brake drum.

Scored drum: Brake drum with a grooved friction surface, resulting in excessive lining wear. Severe scoring requires that a drum be machined, within manufacturer's limits, before replacing the linings.

Service brakes: The portion of the brake system that is used for normal brake applications.

Single circuit foot valve: Normally used on pre-FMVSS-121 vehicles. It is foot operated and controls the delivery of air to the brake chambers. Simply stated, it provides the driver with a means of applying and releasing the brakes on a vehicle.

Single circuit system: Pre-FMVSS-121 air brake system employing as the name implies a single circuit to control the brakes. (See Dual brake system.)

Slack adjuster: Used on cam operated foundation brake systems. It is a device that functions as a lever connecting the brake chamber push rod to the foundation brake camshaft. It provides torque to rotate the brake camshaft whenever the foot or hand valve is actuated. The slack adjuster also provides a means of adjusting clearance between brake shoes and the drum to compensate for lining wear. Slack adjusters are available in both automatic and self adjusting configurations.

Spitter valve: A commonly used term that refers to an automatic drain valve. (See Drain valve.)

Spring brake valve: A multi-function valve that limits hold-off pressure to the spring brakes via a relay or quick release valve. If rear axle service brakes are lost it also provides a modulated spring brake application proportional to the service braking pressure delivered to the front axle.

Spring brake: A tandem chamber brake actuator that incorporates a service brake chamber, and a spring-applied parking or emergency brake chamber (parking). Spring brakes are automatically applied when service air is lost (emergency) or on manual application of a dash-mounted control valve. Spring brakes remain applied until the service air system is recharged or the spring is manually compressed or caged. Some spring brake actuators are used solely for parking and emergency brake applications. For example, some parking brakes are applied by air pressure and are held mechanically by a pawl which drops into a notch on the brake chamber push rod.

Stopping distance: The distance traveled by a vehicle between the initial brake application and a full stop.

Stopping time: The time elapsed between the initial brake application and a full stop.

Stroke: Refers to the total distance traveled by a brake chamber push rod or slack adjuster arm during brake application.

Supply air tank: The air reservoir immediately downstream of the air compressor. (See Wet tank.)

Synchronizing valve: A valve that is used to control air from a remote source that is different than the control supply. It can also be used to delay or sequence the action of other air operated devices.

Tire rolling radius: Distance, expressed in inches, from the center of a tire to the pavement, measured when mounted on a vehicle and loaded to its maximum rated capacity.

Torque balance: Achieved when individual brakes exert the degree of braking force required for each brake in the system to do its fair share of the work.

Tractor protection valve: Protects the tractor air brake system under trailer breakaway conditions, and conditions where severe leakage has occurred in the tractor or trailer. The valve is also used to shut off trailer service and supply lines before disconnecting the tractor from the trailer. The valve is used in conjunction with a dash mounted control valve.

Trailer control valve: See Hand valve.

Trailer push: Caused by the tractor braking prior to the trailer and/or with greater torque.

Trailer swing: Articulation of trailer caused by locking only the trailer brakes.

Treadle: Functionally, the brake pedal attached to the foot brake valve.

Trolley valve: Another term for the hand valve or trailer control valve.

Turned drum: A brake drum that has been resurfaced on a lathe to remove scoring or other defects.

Unloaders: The section of the air compressor that receives the signal from the governor to pump air or to stop pumping air. When a compressor is loaded it is taking air in and compressing it. When a compressor is unloaded it is not compressing air.

Wedge brake: A type of brake that is applied by a single or double wedge type mechanism. This type of brake is self adjusting and does not utilize a slack adjuster.

Wet tank: The reservoir or air tank that is nearest to the air compressor where water and oil are mostly likely to accumulate.

Worm gear: Component of slack adjuster. The worm and worm gear provide for adjusting lining-to-drum clearance.

Dictionary of Air Brake Terms and *Understanding the Air Brake System* are based on articles from Commercial Carrier Journal's *The Air Brake Book - 4th Revised Edition.*

Understanding the Air Brake System

There are three basic subsystems that make up the air brake system on medium and heavy duty trucks, tractors, and trailers. These are the **supply, control, and foundation** systems. This article will give you a guided tour of each of these subsystems and their operation on a typical single axle tractor and trailer employing S-cam brakes. The accompanying diagrams illustrate each of the subsystems, and their relationship to each other. The major components of the system are numbered both in the article and on the diagrams.

Supply System

The heart of the supply system is the air compressor **(1)** which provides pressurized air to the air brake system. The air compressor is engine driven either by a pulley or a gear. The mounting configuration and capacity of the air compressor will vary by vehicle or engine manufacturer.

The governor **(2)** senses air pressure in the supply air tank **(3)**, also known as the wet tank. This is the tank immediately downstream from the air compressor. Hot air coming directly from the air compressor will condense into water in this tank, thus the term "wet tank."

The unloaders on the air compressor receive a signal from the governor to either pump air or to stop pumping air. A loaded air compressor pumps air, while an unloaded compressor does not pump air. A governor may either be mounted on the compressor or remote mounted. Pressure in the supply air tank is normally maintained between 100 and 120 PSI. The loading and unloading pressures are preset on the governor at the factory. Most governors can be manually adjusted in the field.

Dash mounted pressure gauges **(4)** allow the driver to monitor air pressure in the air tanks. In addition, a low pressure switch **(5)** that senses system air pressure will send a signal to either a buzzer or a dash light to inform the driver whenever the system air pressure falls below 60 PSI.

A compressor running at full governed engine RPM should build air pressure in the supply reservoir from 85 to 100 psi in 25 seconds or less. Failure to do so would indicate that there is a problem somewhere in the supply system.

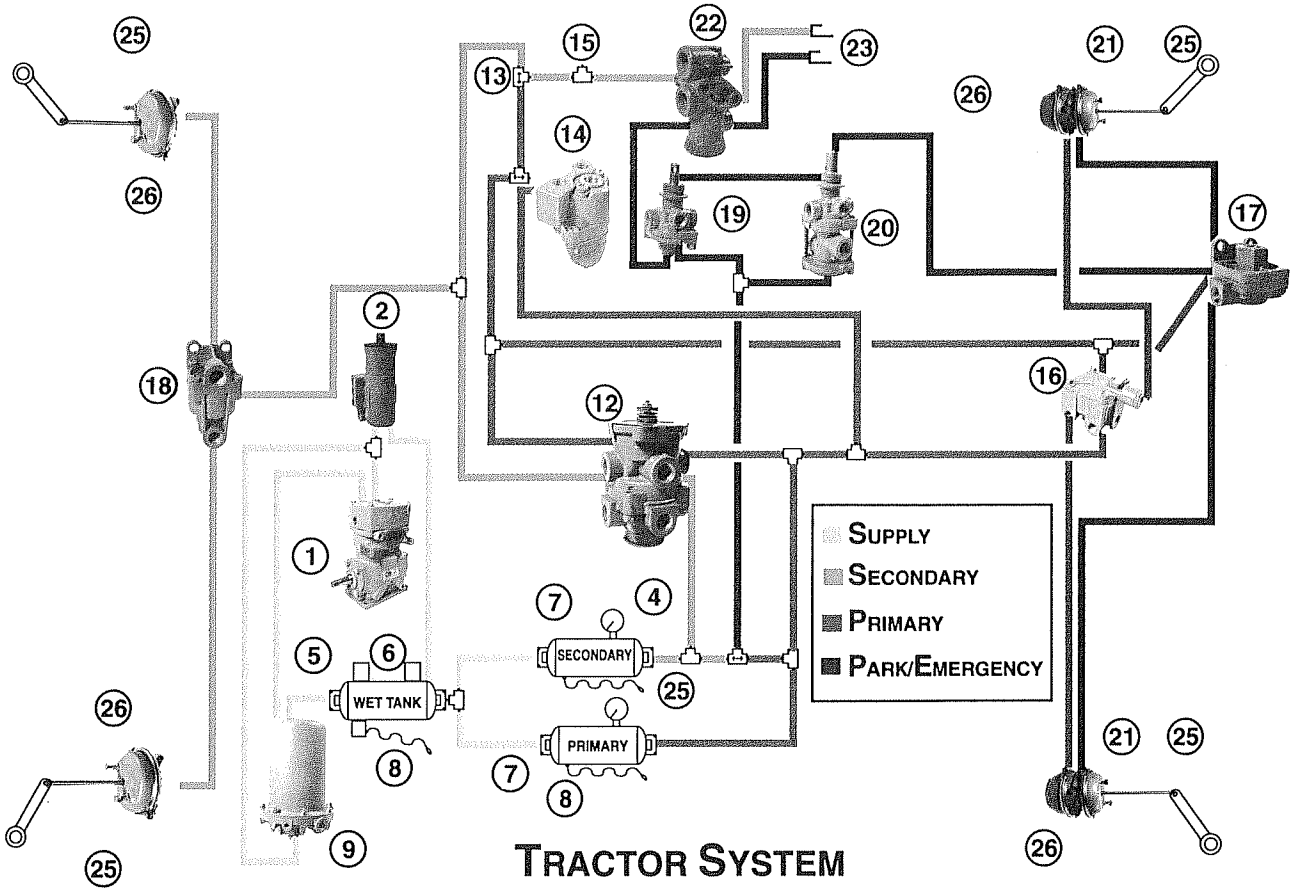
If the supply system is not maintaining proper air pressure, the supply system should be checked for leaks. This should be done prior to replacing an air compressor or other system components. A leak down test is commonly used to diagnose for leaks. To perform this check the air system should be charged to maximum governed pressure. The engine is then shut off. With the brakes fully applied there should be no more than a 3 psi per minute air loss noted on the dash mounted pressure gauges. A loss greater than that amount indicates that a leak exists. Painting components and individual air lines with soapy water and watching for bubbles is a common method used to detect leaks.

Other problems that could exist would include a restricted compressor air filter, restricted air lines, or a faulty compressor.

If a governor becomes faulty and fails to unload the air compressor, a safety or "pop-off" valve **(6)** that is installed in the supply reservoir allows air to escape, thus preventing damage to the reservoir and other air system components. Air is prevented from passing back through an unloaded compressor by means of one way check valves **(7)** that are installed on the reservoirs.

There are several means by which moisture and contaminants that collect in the wet tank can be eliminated. The first is by either an automatic or manually operated drain valve **(8)** located on the reservoir. The drain valve is installed in the bottom port of the reservoir. Automatic drain valves operate at specific ascending or descending reservoir pressures.

The second is the installation of a desiccant type air dryer or an aftercooler **(9)** between the compressor and the supply tank. The most effective means of eliminating water, oil



TRACTOR SYSTEM

blow by, and other contaminants, is the use of a desiccant style air dryer. This type of unit will remove virtually all water and water vapor from the air system. The desiccant is normally contained in a replaceable cartridge that is available remanufactured exchange. Aftercoolers and air dryers are optional devices that are not required to be installed in a vehicle's air supply system.

The wet tank supplies air to two reservoirs downstream. These are the rear axle service reservoir or primary reservoir **(10)**, and the front axle service reservoir **(11)**, or secondary reservoir. Air is prevented from passing back into the wet tank by means of a one way check valve **(7)**.

Control System

The control system is no more than a series of air valves that direct air and control pressure to working components in the foundation brake system.

Air from the primary and secondary reservoirs is supplied to the dual-circuit foot valve **(12)**. The dual foot valve has two separate circuits for braking, and both are activated simultaneously. The dual system assures controlled braking in the event one of the two circuits fails. The primary circuit receives air from the rear axle service reservoir and supplies air to the rear axle brake system. The secondary circuit receives air from the front axle service reservoir and supplies air to the front axle brake system.

A double check valve **(13)** senses primary and secondary service pressure and allows the stronger of the two to activate the trailer braking system. Air to the trailer braking system can also be manually supplied by the use of the hand valve **(14)** or trailer valve. The hand valve is normally installed on the steering column.

Double check valves are also used to activate the stop light switch **(15)**, or to release the parking brakes. FMVSS-121 requires that a driver be able to release the parking brakes at least once from the cab in the event of primary or secondary system failure.

Relay valves **(16)** that are located on the rear axle and on the trailer are used to rapidly apply the service or parking brakes. Relay valves are directly supplied with unmodulated air pressure by either the dual foot valve or the hand valve, and minimize the effect of distance in applying the brakes.

The "crack pressure" of a relay valve is the amount of air required to open the valve and supply air to activate

the brakes. Crack pressure is expressed in psi (pounds per square inch), and can vary depending upon the valve installed by the original manufacturer of the vehicle. Crack pressure is a major factor in establishing proper brake balance and timing in the air brake system. Brake balance is achieved when the brakes on all axles do their fair share of work to stop a vehicle. Every effort should be made when replacing a defective relay valve to do so with a valve that has the same crack pressure. At present there is no system in the industry that requires crack pressure to be marked on a valve. DS Parts tests every relay valve to insure that the crack pressure is the same as that specified by the original manufacturer by part number. In addition, the crack pressure of a DS Parts remanufactured valve may be found in this catalog, or on the outside of the box it is supplied in.

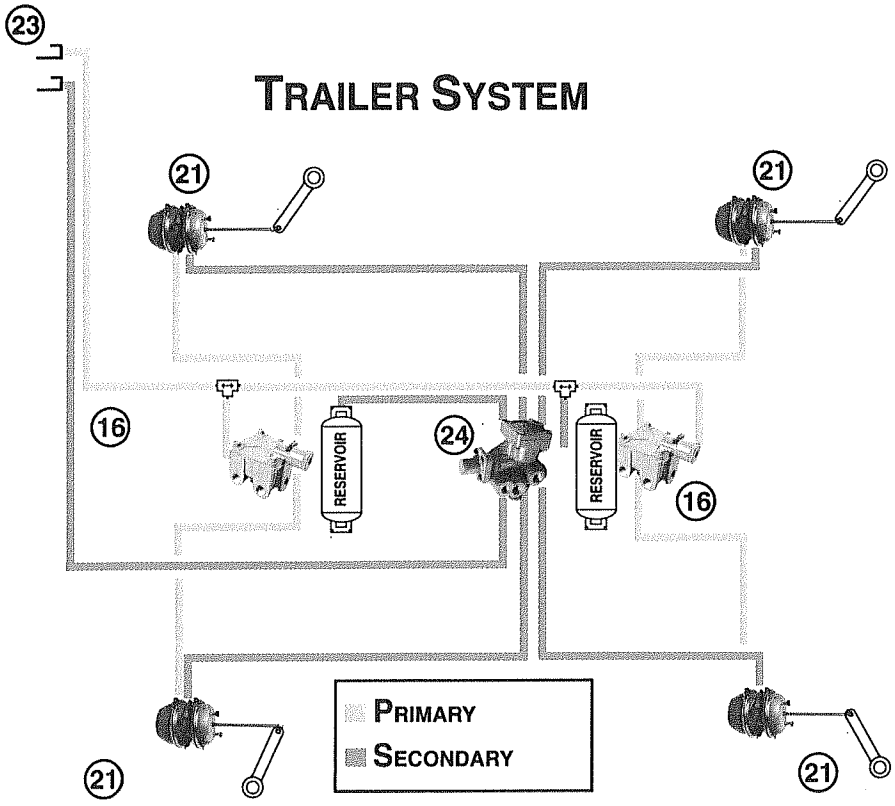
When the foot valve or the hand valve is released, an optional quick release valve **(17)** decreases the release time on a brake application by rapidly exhausting air through itself rather than the controlling valve. Quick release valves are normally installed close to the device that is being controlled, and will reduce the chance of brake drag. Minimum brake release times required by FMVSS-121 are .45 seconds (apply) and .55 seconds (release) for tractors and straight trucks, and .6 seconds (apply) and 1.2 seconds (release) for non-pulling (single) trailers.

The pressure reducing or ratio valve **(18)** is used on many vehicles to limit the air pressure supplied to the front axle. This valve is available in a variety of hold-off pressures that prevent the front brakes from being activated until the hold-off pressure is reached.

Control valves mounted on the dash of the vehicle **(19 and 20)** are used to control the parking or spring brakes **(21).** Parking brakes are activated when these valves, are exhausted (no air supplied). When air pressure is applied by these valves, the parking brakes are released.

The tractor protection valve **(22)** senses air in one or both of the lines supplying air to the trailer. If a trailer breakaway occurs, or a severe air leak exists in the trailer system, this valve will close and maintain air pressure in the tractor system. The tractor protection valve is used in conjunction with the trailer parking valve **(19)** to shut off air when disconnecting the trailer from the tractor. The service and supply lines from the tractor to the trailer are connected by means of quick connect fittings that are referred to as gladhands **(23).**

A spring brake valve (trailer valve) **(24)** may be mounted on or near the rear reservoir on the trailer. This valve is a multi-function valve that limits hold-off pressure to the spring brakes via a relay or quick release valve. If rear axle service brakes are lost, it also provides a modulated spring brake application proportional to the service braking pressure delivered to the front axle. An integral check valve isolates a failed reservoir which would otherwise cause the parking brakes to be applied.



The anti-compounding option prevents the inadvertent application of the service brakes from adding to the force already being exerted by the parking brakes. This guards against brake drum cracking and lining damage. This option works by means of a double check valve that sends air pressure to the hold-off side of the spring brake chamber when parking brakes are applied, and a service brake application is made.

Foundation System

The foundation system is a combination of air activated and mechanical devices that utilize the air from the supply system to stop the vehicle. Application of the dual foot valve causes air to be delivered to brake chambers **(25)** located on each

wheel. The brake chamber utilizes a diaphragm and a spring to convert air pressure to mechanical force via a push rod on the other side of the diaphragm.

The amount of force applied by the pushrod is the product of the amount of air pressure in pounds per square inch and the effective surface area of the diaphragm in square inches. A 60 psi brake application on a chamber with a type 30 diaphragm (30 square inches) would produce 1800 pounds of pushrod force (60 psi x 30 sq. inches = 1800 lbs of force).

The pushrod is attached by means of a clevis assembly to a slack adjuster **(26)**. The slack adjuster is a device that functions as a lever between the pushrod and the foundation brake camshaft. It provides the torque to rotate the camshaft which forces the brake shoes against the brake drum creating the friction necessary to stop the vehicle. The slack adjuster multiplies force in a direct relationship to its length. For example, a 5" slack adjuster would convert the 1800 lbs of force produced by the 60 psi brake application described above into 10,800 lbs of torque at the camshaft.

Another term used in expressing this relationship is AL factor. The AL factor is the product of the two variables that can be altered to meet braking needs, slack adjuster length, and brake chamber size. A 6" slack adjuster combined with a type 30 brake chamber would produce an AL factor of 180. It is critical that the AL factor be matched at each wheel end of an axle. Failure to do so will cause severe brake balance problems.

The actual amount of friction produced by the brakes is determined by the size of the brakes, the coefficient of friction of the brake lining, and the actual performance of the material used in the lining. It is important that the friction material used on both wheel ends of an axle be the same, and that the gross vehicle weight rating of the material be proper for the loads and the type service for which the vehicle is to be employed.

A tandem or piggyback springbrake **(21)** performs the parking and emergency brake functions on the vehicle. This device is also referred to as a double diaphragm springbrake. The parking side of the springbrake contains a diaphragm and a powerful spring. In normal operation the control valves that operate the vehicle's parking system are in a running (pushed in) position. Air pressure is supplied to the chamber causing the diaphragm to compress the spring, holding off the parking brakes. Exhausting the control valves (pulling out) releases the hold-off air, and the spring is released, engaging the brakes. The emergency function of the springbrake works as follows; when system air pressure is lost, and the force of the spring is greater than the hold-off pressure, the brakes will be applied.

FMVSS-121 requires that the parking brake must be able to hold a vehicle, loaded to its gross vehicle rating, stationary, on a smooth, dry, concrete roadway, facing uphill or downhill, on a 20% grade. In the emergency mode, the parking brakes must be able to exert a retarding force equal to 28% of the gross axle rating.

On October 8,1992 FMVSS-121 was amended to among other things eliminate the requirement for a dedicated spring brake reservoir on trailers. This allows the trailers to use tractor air to release the trailer brakes. In addition, the new regulation established a new pressure protection level of 70 psi, and also requires that parking brakes not drag when air pressures are above 70 psi. Several new valves have been developed by manufacturers to facilitate this change if it is desired by the vehicle operator.

DS Parts • Warranty

DS Parts warrants to the original purchaser that each product remanufactured by it is free from defects in material and workmanship under normal usage and service for a period of one (1) year from the date of installation, or 100,000 miles, whichever occurs first, and that Bendix Tu-Flo 501, Tu-Flo 700, Midland EL1300 and Midland EL1600 compressors are warranted for two (2) years from the date of installation or 200,000 miles, whichever occurs first.

The obligation under this warranty is limited solely to the repair or exchange of any product demonstrated to be defective; provided such product is returned to DS Parts or to one of its authorized agents prior to expiration of the applicable warranty.

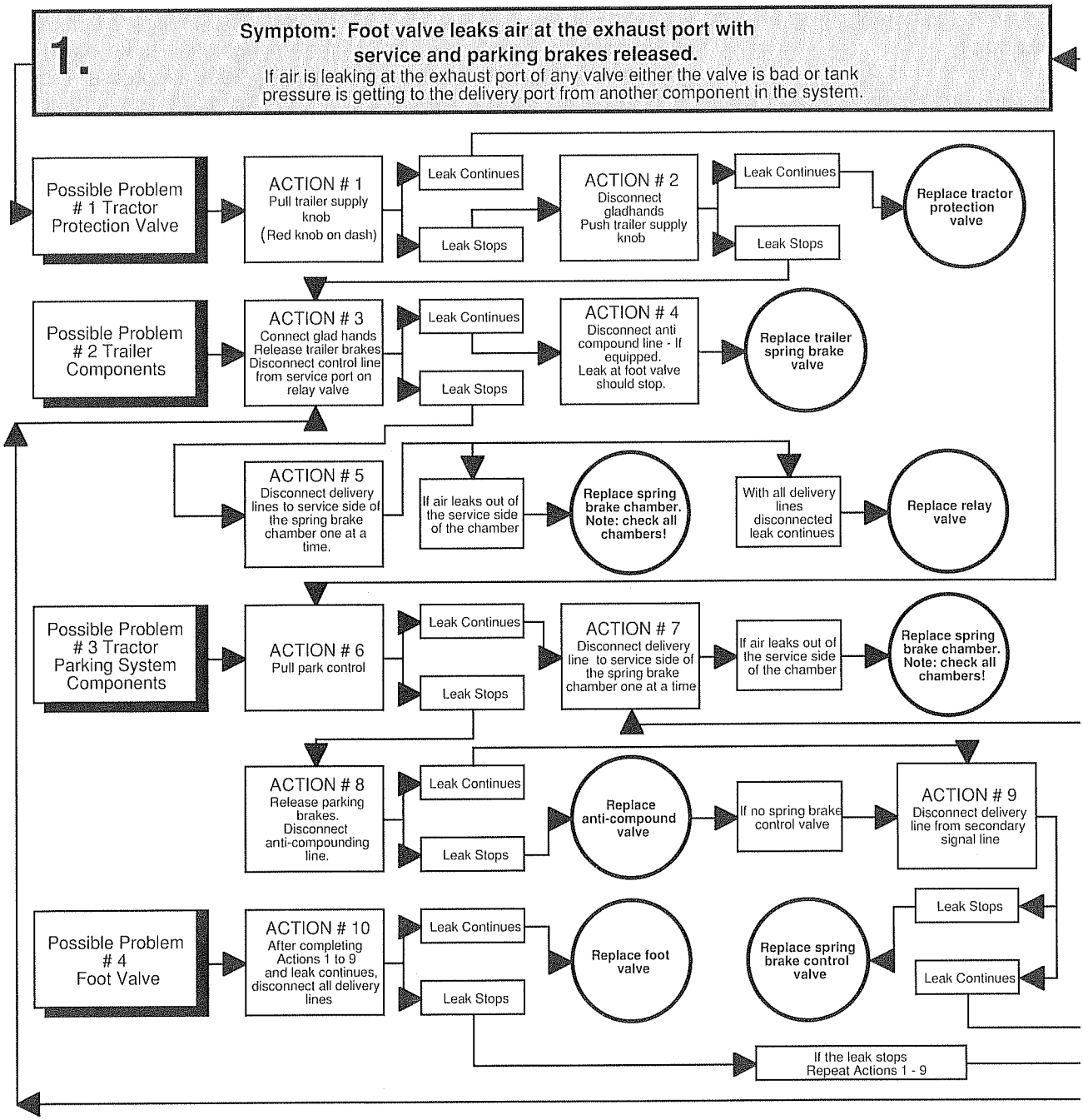
This warranty is expressly in lieu of any and all other warranties, whether express or implied, including the warranties of merchantability and fitness for particular purpose. In no event will DS Parts be liable for incidental or consequential damages. Further DS Parts neither assumes nor authorizes any person to assume for it any liability other than this warranty in connection with the sale of its remanufactured products.

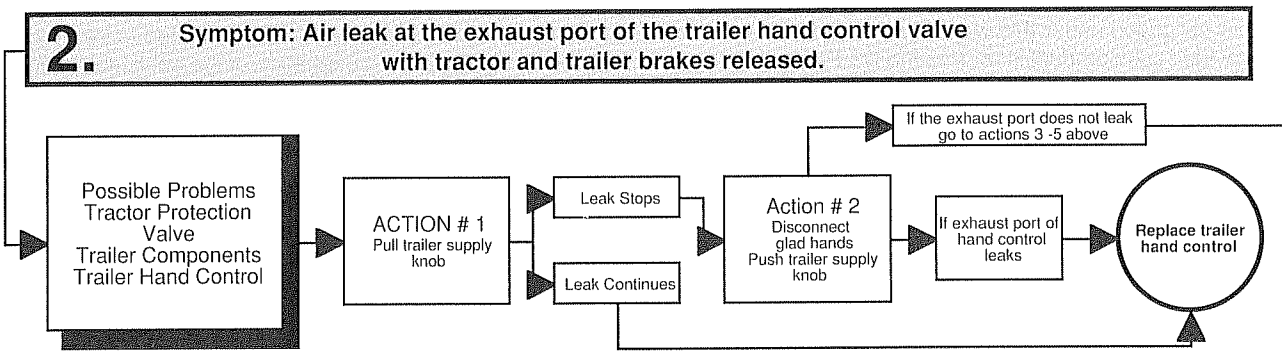
This warranty shall not apply to any product which has been improperly installed, adjusted, or has been subject to accident, negligence, alteration, abuse, or misuse (including any product on which a serial number has been altered, defaced or removed).

Quality Assured Parts

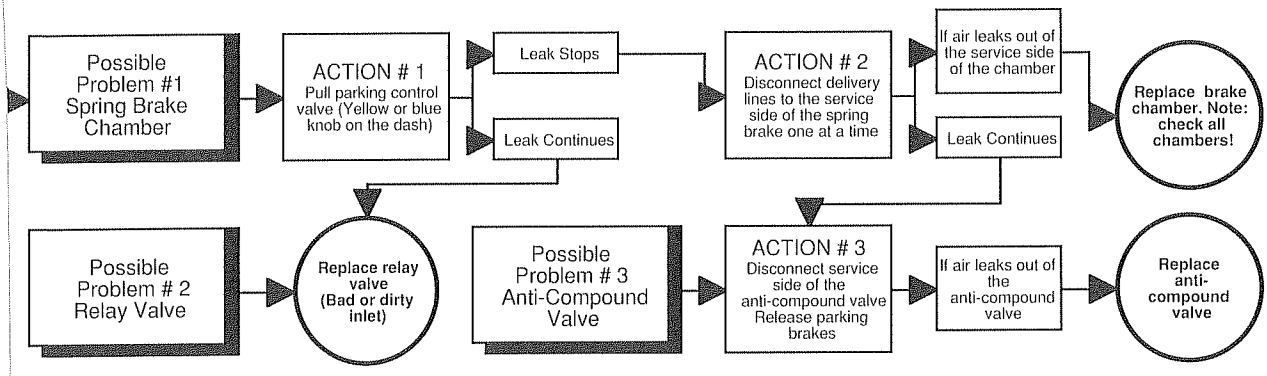
Dual Air Brake System - Troubleshooting Flowcharts

The flowcharts shown on these pages offer a systematic approach to determining the causes of air brake problems. Please note that while every effort has been made to insure that information shown is correct, DS Parts makes no warranty, or assumes any liability for errors, omissions or harm resulting trom the use of these flowcharts.



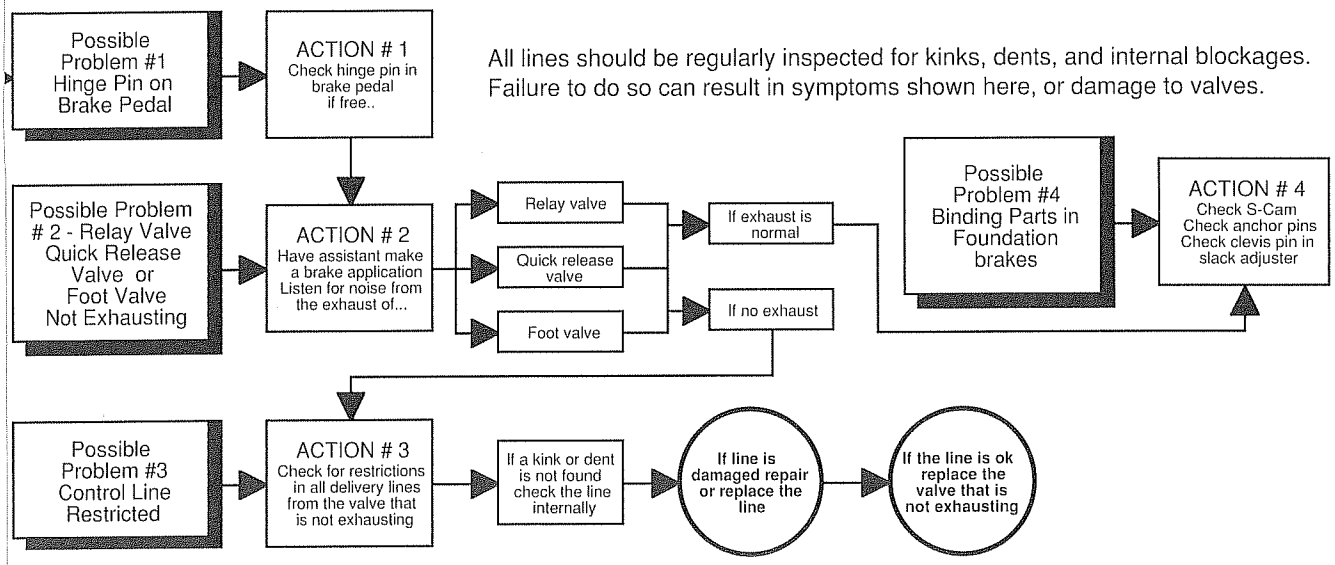


3. Symptom: Air leak at the exhaust port of the trailer hand control valve with tractor and trailer brakes released.

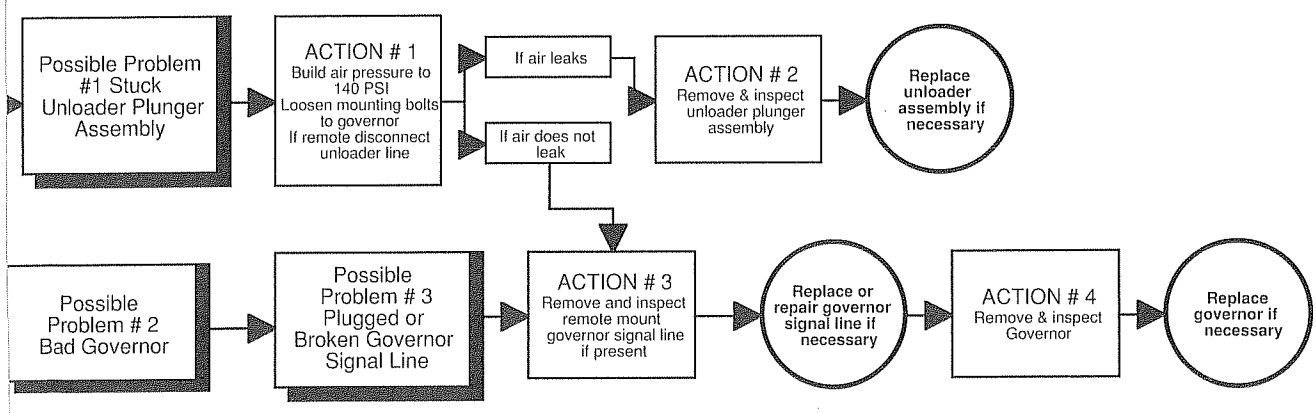


4. Symptom: Slow or no release of brakes.

All lines should be regularly inspected for kinks, dents, and internal blockages. Failure to do so can result in symptoms shown here, or damage to valves.



5. Symptom: High pressure in the air system.



6. Symptom: Air leak at the exhaust port of a relay valve in the front axle system with the service brakes released.

Possible Problem Relay Valve - Bad or Dirty Inlet → Service or replace the relay valve

7. Symptom: Air leak in the parking system relay valve.

Possible Problem Relay Valve - Bad or Dirty Inlet → Service or replace the relay valve

8. Symptom: Air leak in the exhaust port of the quick release valve in the rear axle tractor service system with the service and parking brakes released.

Possible Problem Spring Brake Chamber → ACTION Release parking brakes Disconnect delivery lines to the service side of the spring brake chamber one at a time → If the service side of the spring brake chamber leaks... → Replace spring brake chamber. Note: check all chambers!

9. Symptom: Air leak at the exhaust port of the tractor protection valve with tractor and trailer brakes released.

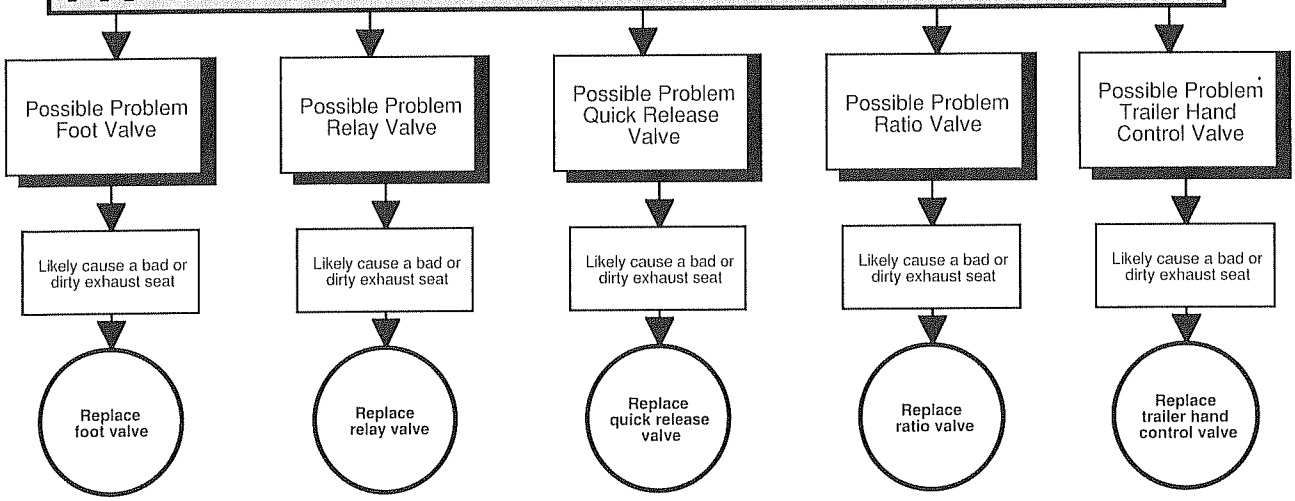
Possible Problem Tractor Protection Valve → Replace the tractor protection valve

10. Symptom: Air leak at the exhaust port of the park control and trailer supply valves with tractor and trailer brakes released.

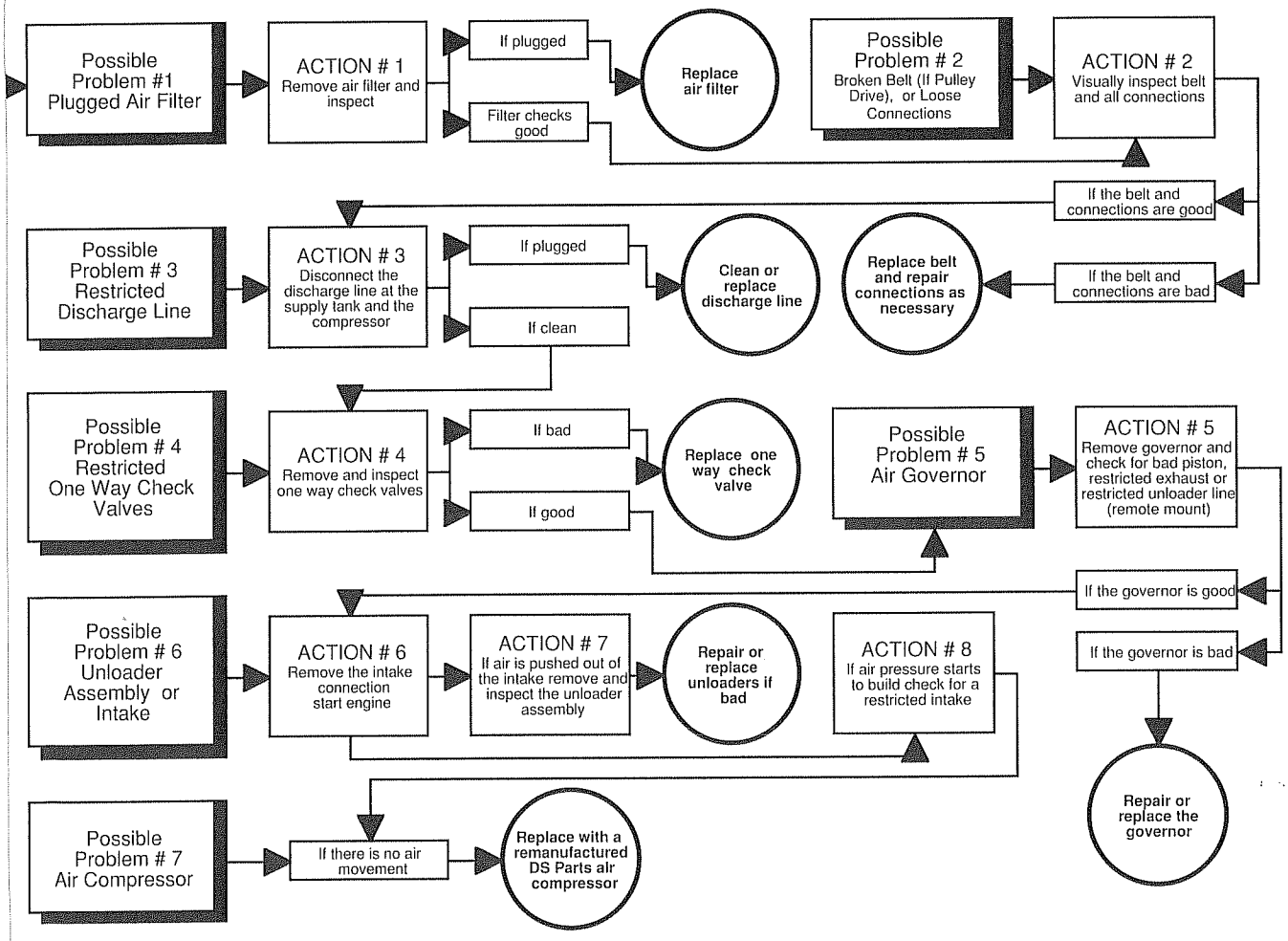
Possible Problem Park Control Valve → If the leak is at the park control valve → Replace the park control valve

Possible Problem Trailer Supply Valve → If the leak is at the trailer supply valve → Replace the trailer supply valve

11. Symptom: Air leak at the exhaust port of any of the following valves with the service brakes applied.



12. Symptom: No air pressure build up.



Dual Air Brake System - Troubleshooting Flowcharts

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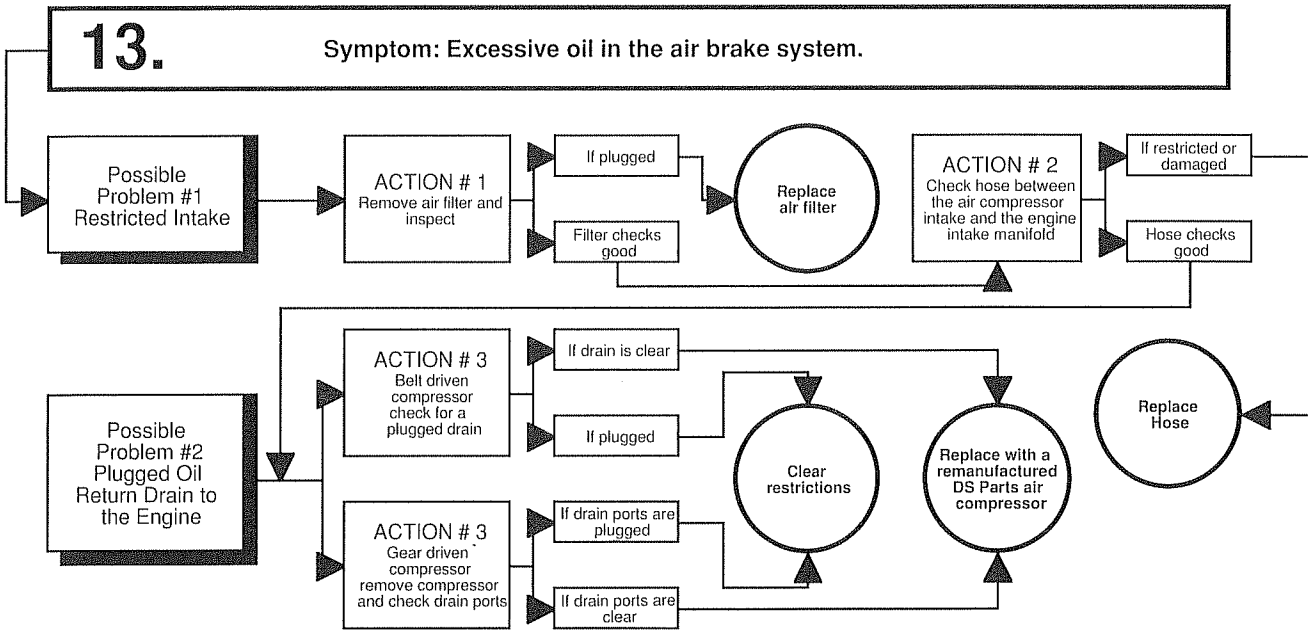


Preventative Maintenance - Air Compressors

1. Inspect oil return lines for restriction and possible kinking. Restricted oil return lines will cause the air compressor to pump excessive oil.

2. When installing an air compressor, use the gaskets provided with the compressor. Gasket sealant can obstruct the oil return drain and will cause the compressor to pump oil. Blockage or restriction of oil inlet passages can also damage pistons, rings, and bearings causing the compressor to lock up.

3. Verify that the oil return line is a minimum of 1/2". An undersize oil return line will cause excessive oil passage.

4. Replace the air filter at manufacturers suggested intervals. When a compressor attempts to draw air through a plugged oil filter, a vacuum is created during the intake stroke. The vacuum is partially relieved by oil that is sucked past the compressor's piston rings. On the compression stroke, the oil can be pumped into the discharge line. This will cause gumming problems downstream, and can cause sensitive valves to operate improperly.

5. An improperly installed or damaged air filter can also allow contaminents to enter the compressor causing damage to the compressor.

6. Premature failure of compressor piston oil control rings can be caused by not changing engine oil when the compressor shares oil with the engine. If a compressor is self lubricated, timely oil changes are essential. The number one cause of premature ring failure is dirty oil.

7. High engine oil pressure can also cause the air compressor to pump excessive oil.

8. Excessive oil passage and other problems can be caused by improper cooling due to inadequate or restricted coolant lines, and insufficient air cooling. Cooling fins that are caked with dirt and grease will cause compressor problems.

Guide to Identifying Compressors

The Compressor section of this catalog is divided into 5 parts:

1. Index and Guide - A list of all compressors shown in this catalog by part number and the page that they can be found on.

2. Original Equipment to Remanufactured Part Number Listings Interchange - A list by compressor manufacturer that interchanges their original equipment part numbers to remanufactured part numbers. It also identifies the type of compressor the part number represents.

3. Upgrade Listing - A list by type of compressor that can be used to either upgrade or downgrade from one type to another. Note - upgrading or downgrading a compressor may require piping or drive changes.

4. Pictorial Section - A pictorial guide showing popular compressor configurations by part number.

5. Vehicle/Engine Manufacturer Part Number Interchange - A list by vehicle manufacturer that interchanges their number to the remanufactured part number. This interchange can be found in the appendix.

Finding the right compressor by part number:

In virtually all cases a compressor can be identified by a tag that can be located on either side of the crankcase that will show the part number of the compressor and the type of compressor. The location and the information given on the tag will vary by manufacturer or remanufacturer. Some remanufacturing companies will put the information on a tag that is bolted to the head of the compressor. The part number given on the tag can fall into three different categories.

1. Remanufactured Part Number: A remanufactured part number for a compressor is the number that is commonly used in the aftermarket.

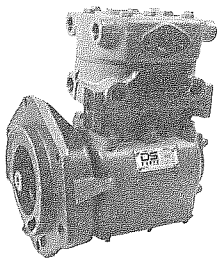
2. Original Equipment Number: A number that is used by the original manufacturer of the compressor to identify a compressor made for a specific vehicle manufacturer. Part numbers that fall into this category are interchanged to aftermarket remanufactured numbers in the Original Equipment to Remanufactured Part Number Interchange.

3. Vehicle/Engine Manufacturers Part Numbers: In a few instances the tag may have either the vehicle or engine manufacturers part number for the compressor. Many part numbers that fall into this category are interchanged in the Vehicle/Engine Manufacturers Interchange. This interchange may be found in the appendix.

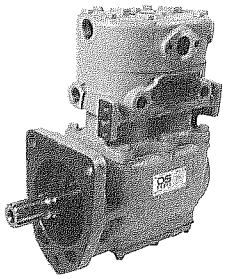
A part number should always be double checked in the Original Equipment to Remanufactured Part Number Listing to insure that the right aftermarket number is used. The listing also helps to identify the type of compressor required (i.e. Tu-Flo 500, 501 etc.). This is very important in verifying that the right core is being returned for exchange.

Bendix Compressors Remanufactured by DS Parts

Tu-Flo 400



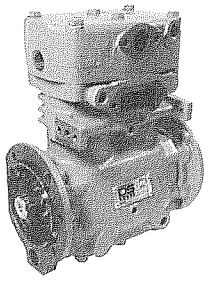
The Tu-Flo 400 is remanufactured in water cooled, air cooled, or water cooled head and air cooled block configurations, and has a separate head, block and crankcase. It is available in pulley driven vertical mount, side mount, and offset mount. Direct drive flange mount applications are available as well. It is a two cylinder, reciprocating type compressor, and has a displacement of 7.25 cu. ft. per min. at 1250 R.P.M.. Pictorial and other reference data on many Tu-Flo 400 compressor configurations are included in this catalog.



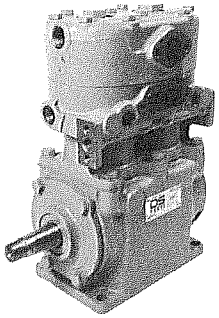
Tu-Flo 500

The Tu-Flo 500 is remanufactured in water cooled, air cooled, or water cooled head and air cooled block configurations,and have a separate head, block and crankcase. It is available in pulley driven vertical mount, side mount, and offset mount. Direct drive versions include both single and double flange mount. It is a two cylinder, reciprocating type compressor, and has a displacement of 12 cu. ft. per min. at 1250 R.P.M.. Pictorial and other reference data on many Tu-Flo 500 compressor configurations are included in this catalog.

Tu-Flo 501



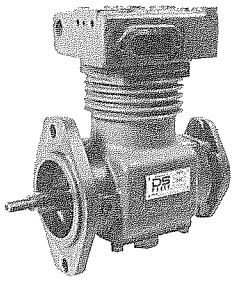
The Tu-Flo 501's all have a water cooled head and air cooled block , and have an integral block and crankcase. They are available in pulley driven vertical mount, side mount, and offset mount. Direct drive versions include both single and double flange mount. It is a two cylinder, reciprocating type compressor, and has a displacement of 12 cu. ft. per min. at 1250 R.P.M.. Pictorial and other reference data on many Tu-Flo 501 compressor configurations are included in this catalog.



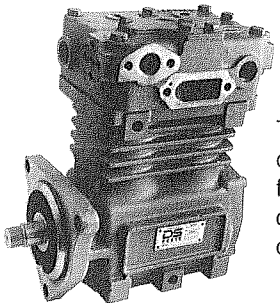
Tu-Flo 600

The Tu-Flo 600 is remanufactured in water cooled, air cooled, or water cooled head and air cooled block configurations, and have a separate head, block and crankcase. It is available in pulley driven vertical mount, and the direct drive versions include both single and double flange mount. It is a two cylinder, reciprocating type compressor, and has a displacement of 14.5 cu. ft. per min. at 1250 R.P.M.. Pictorial and other reference data on many Tu-Flo 600 compressor configurations are included in this catalog.

BX2150



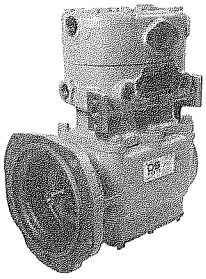
The BX2150's all have water cooled heads and air cooled blocks, and have an integral block and crankcase. They are available in pulley driven vertical mount, and direct drive single and double flange mount. It is a one cylinder, reciprocating type compressor, and has a displacement of 9.5 cu. ft. per min. at 1250 R.P.M.. Pictorial and other reference data on many BX2150 compressor configurations are included in this catalog.



Tu-Flo 550

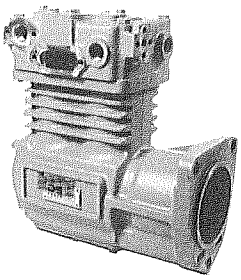
The Tu-Flo 550's all have water cooled heads and air cooled blocks, and have an integral block and crankcase. They are available in pulley driven vertical mount, and direct drive single and double flange mount. It is a two cylinder, reciprocating type compressor, and has a displacement of 13.2 cu. ft. per min. at 1250 R.P.M.. Pictorial and other reference data on many Tu-Flo 550 compressor configurations are included in this catalog.

Tu-Flo 700



The Tu-Flo 700's all have water cooled heads and blocks. They are available in pulley driven vertical mount, and direct drive single and double flange mount. It is a two cylinder, reciprocating type compressor, and has a displacement of 15.5 cu. ft. per min. at 1250 R.P.M.. Pictorial and other reference data on many Tu-Flo 700 compressor configurations are included in this catalog.

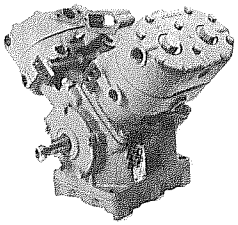
Note: Pulley driven vertical mount compressors are manufactured with a variety of base mounts including 4, 6 and no hole base configurations. Engine driven compressors are manufactured with a variety of flanges that are designed to bolt on to specific engine configurations (i.e. Caterpillar Flange, Cummins Flange, Mack Flange, or Detroit Diesel Flange).



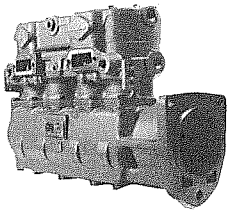
Tu-Flo 750

The Tu-Flo 750's all have water cooled heads and air cooled blocks, and have an integral block and crankcase. They are available in pulley driven vertical mount, and direct drive single and double flange mount. It is a two cylinder, reciprocating type compressor, and has a displacement of 16.5 cu. ft. per min. at 1250 R.P.M.. Pictorial and other reference data on many Tu-Flo 750 compressor configurations are included in this catalog.

Tu-Flo 1000



The Tu-Flo 1000 is either water cooled or air cooled. It is available in pulley driven vertical mount, and direct drive flange mount. It is a four cylinder, reciprocating type compressor, and has a displacement of 24 cu. ft. per min. at 1250 R.P.M.. Pictorial and other reference data on many Tu-Flo 1000 compressor configurations are included in this catalog.

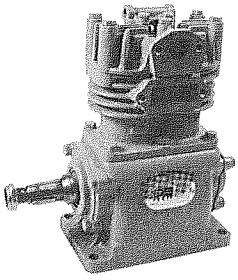


Tu-Flo 1400L

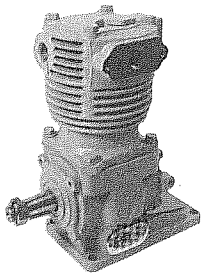
The Tu-Flo 1400L is remanufactured in a water cooled application for Mack in-line 6, Caterpillar and Detroit Diesel applications. It is available in a direct drive flange mount. It is a four cylinder, reciprocating type compressor, and has a displacement of 31 cu. ft. per min. at 1250 R.P.M.. Pictorial and other reference data on the Tu-Flo 1400L are included in this catalog.

Midland Compressors Remanufactured by DS Parts

EL740



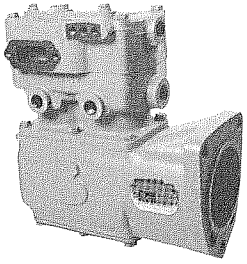
The EL740 is remanufactured in water cooled, air cooled, or water cooled head and air cooled block configurations. It is available in pulley driven vertical mount, and direct drive flange mount applications. It is a 2 cylinder reciprocating type compressor, and has a displacement of 7.4 cu. ft. per min. at 1250 R.P.M.. Pictorial and other reference data on many EL740 compressors are included in this catalog.



EL850

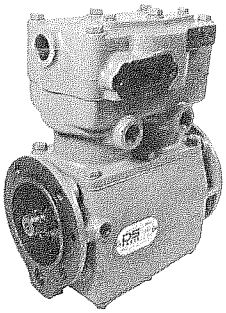
The EL850 is remanufactured in water cooled and air cooled configurations. It is available in pulley driven vertical mount, and direct drive flange mount applications. It is a 1 cylinder reciprocating type compressor, and has a displacement of 8.5 cu. ft. per min. at 1250 R.P.M.. Pictorial and other reference data on many EL850 compressors are included in this catalog.

EL1300



The EL1300 is remanufactured in a water cooled configurations only. It is available in pulley driven vertical mount, and direct drive single and double flange mount applications. It is a 2 cylinder reciprocating type compressor, and has a displacement of 12.9 cu. ft. per min. at 1250 R.P.M.. Pictorial and other reference data on many EL1300 compressors are included in this catalog.

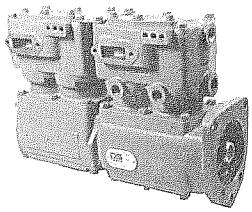
Note: Refer to the pictorial section of the catalog for specific information on air inlet and discharge port locations. Ports can be located on either the right or left side of the compressor, or on the top.



EL1600

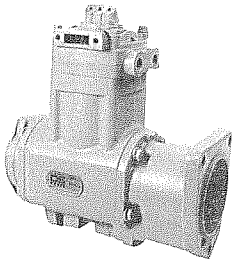
The EL1600 is remanufactured in a water cooled configuration only. It is available in pulley driven vertical mount, and direct drive single and double flange mount applications. It is a 2 cylinder reciprocating type compressor, and has a displacement of 16.1 cu. ft. per min. at 1250 R.P.M.. Pictorial and other reference data on many EL1600 compressors are included in this catalog.

EL3200



The EL3200 is water cooled, and is available in direct drive single flange mount for Mack in-line 6 applications. It is a 4 cylinder reciprocating type compressor, and has a displacement of 32.2 cu. ft. per min. at 1250 R.P.M.. Pictorial and other reference data on the EL3200 compressor are included in this catalog.

Remanufactured Holset Compressors (Cummins & Mack Applications)



Holset manufactures both single cylinder and double cylinder reciprocating compressors for the Cummins Engine Company. The Cummins compressors are manufactured new exclusively for Cummins. Holset also manufactures a single cylinder compressor for Mack extended flange applications. **DS Parts** remanufactures compressors for popular Cummins and Mack applications. Two cylinder or unusual Cummins flange applications are available on a remanufacture and return basis.

Compressor Section Notes

DS Parts remanufactured air compressors are supplied with gasket kits that include gaskets required to properly mount a compressor on a vehicle. Replacement part numbers for the gasket kits that are packaged with each air compressor are listed at the bottom of each page by compressor part number. DS Parts does not supply gaskets that are used in remanufacturing or rebuilding air compressors.

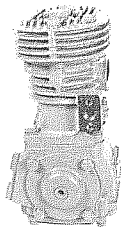
Gasket kits will include the following items if they are required for compressor installation:

1) Discharge Fitting Gasket
2) Governor Gasket
3) Strainer Gasket
4) Flange Gasket (If required)
5) Base Gasket (If required)

Crankshaft nuts are supplied with all compressors that require them.

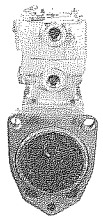
Threaded plugs are included with every compressor for plugging unused ports.

Unloader repair kits are listed by compressor part number at the bottom of each page.



IMPORTANT!

Porting references on Bendix compressors are looking forward from the end of the compressor opposite the drive arrangement.



IMPORTANT!

Porting references on Midland compressors are looking at the drive end of the compressor.

Heads on Midland compressors may be rotated unless otherwise noted.

Disclaimer

All of the pictures, specifications and other data in this section have been carefully checked with original manufacturers catalogs at the time of publication. DS Parts assumes no responsibility should any information be deemed as incorrect, and reserves the right to make changes at any time without notice.

Part No.	Type	Drive	Category	Cooling	Inlet	Outlet	Discharge	Other Features	Page
101142	TF400	Pulley	4 Hole Base	WC	Left	Left	Flange	Bottom cover plate	49
101158	TF700	Engine	DDC 45° Tilt	WC	Right	Right/Top	Optional		61
101242	TF400	Pulley	4 Hole Base	WC	Left	Left	Flange	Rear oil inlet	49
101245	TF400	Pulley	Ford Side Mount	AC	Left	Left	Flange		53
101256	TF700	Pulley	4 Hole Base	WC	Right	Right/Top	Optional		50
101282	TF700	Engine	DDC 0° Tilt	WC	Right	Right/Top	Optional		59
102151	TF700	Engine	DDC 0° Tilt	WC	Right	Right/Top	Optional		59
102213	TF700	Pulley	6 Hole Base	WC	Left	Left	Optional	Base oil option	53
102598	TF700	Pulley	6 Hole Base	WC	Left	Left	Optional	Special crankcase base	53
102697	TF501	Engine	Mack Ext Flange	WC/AC	Right	Top	Threaded	Power steering	62
102698	TF501	Pulley	4 Hole Base	WC/AC	Left	Left	Flange	Three front cover studs	51
102734	TF501	Pulley	Ford Side	WC/AC	Left	Left	Flange		54
102785	TF501	Engine	Volvo/White	WC/AC	Left	Left	Flange		63
102835	TF700	Engine	DDC 0° Tilt	WC	Left	Left/Top	Optional		59
102952	TF400	Pulley	Ford Side Mount	AC	Right	Right	Flange		53
102953	TF501	Engine	Mack Foxhead	WC/AC	Left	Top	Threaded	Mack V8	63
102989	TF501	Pulley	6 Hole Base	WC/AC	Right	Top	Threaded	Special crankcase base	52
103211	BX2150	Pulley	4HoleBase	WC/AC	Optional	Optional	Threaded	Specialbase	51
103212	BX2150	Pulley	6HoleBase	WC	Optional	Optional	Threaded	Widebase	53
103274	TF501	Engine	Cat Tapered Shaft	WC/AC	Left	Top	Threaded	2° - 30° tilt	55
103278	TF700	Engine	Cat Splined Shaft	WC	Left	Left/Top	Optional	2 1/2° tilt - 3406B	56
104039	BX2150	Pulley	4 Hole Base	WC/AC	Optional	Optional	Threaded		51
104041	BX2150	Pulley	4HoleBase	WC/AC	Optional	Optional	Threaded	Lowprofilecase	51
104042	BX2150	Engine	Cat Flange	WC/AC	Optional	Optional	Threaded		57
104102	BX2150	Engine	Cummins Flange	WC/AC	Optional	Optional	Threaded		58
104103	BX2150	Engine	Cummins Flange	WC/AC	Optional	Optional	Threaded		58
104583	1400L	Engine	Flange Mount	WC	Optional	Top	Threaded	Cat 2 1/2°Tilt	64
104584	1400L	Engine	Flange Mount	WC	Optional	Top	Threaded	Mack in line 6	64
106163	BX2150	Engine	JohnDeere	WC/AC	Optional	Optional	Threaded	8°tiltonflange	58
106268	TF700	Engine	DDC 0° Tilt	WC	Left	Left/Top	Optional	DDC Series 60	59
107023	TF750	Engine	Cat Tapered Shaft	WC/AC	Left	Left/Top	Optional	21/2° tilt	57
107506	TF550	Engine	Cummins Std Case	WC/AC	Left	Left/Top	Optional		58
107507	TF750	Engine	Cummins Std Case	WC/AC	Left	Left/Top	Optional		58
107508	TF750	Engine	Cat Splined Shaft	WC/AC	Left	Left/Top	Optional	Fine spl shaft (22 teeth)	57
107509	TF550	Engine	Cat Tapered Shaft	WC/AC	Left	Left/Top	Optional	2 1 /2° tilt	57
107510	TF750	Engine	Mack Ext Flange	WC/AC	Right	Right/Top	OPtional	Power steering	62
107511	TF550	Engine	Mack Ext Flange	WC/AC	Right	Right/Top	Optional	Power steering	62
107512	TF750	Engine	DDC0°Tilt	WC/AC	Right	Right/Top	Optional		60
107513	TF550	Engine	DDC 0° Tilt	WC/AC	Right	Right/Top	Optional		60
107514	TF550	Pulley	4 Hole Base	WC/AC	Left	Top	Threaded		52
107622	TF550	Engine	DDC 0° Tilt	WC/AC	Left	Left/Top	Optional	DDC Series 60	60
107623	TF750	Engine	DDC 0° Tilt	WC/AC	Left	Left/Top	Optional	DDC Series 60	60
107813	TF750	Engine	DDC 0° Tilt	WC/AC	Left	Left/Top	Optional		60
107866	TF550	Pulley	4 Hole Base	WC/AC	Right	Top	Threaded	Special crankcase base	52
107869	TF750	Engine	Mack Foxhead	WC/AC	Left	Left/Top	Optional	Mack V8	63
107917	TF550	Engine	Cat Splined Shaft	WC/AC	Left	Left/Top	Optional	Fine spl shaft (22 Teeth)	57
108066	TF550	Pulley	4 Hole Base	WC/AC	Left	Top	Threaded	3 front end cover studs	52
108110	TF550	Pulley	4 Hole Base	WC/AC	Left	Top	Threaded	2 mounting studs	52
108277	TF550	Pulley	4 Hole Base	WC/AC	Left	Top	Threaded		52
108329	TF550	Engine	Mack Foxhead	WC/AC	Left	Left/Top	Optional	Mack V8	63
227320	TF500	Pulley	4 Hole Base	WC	Left	Left	Flange	Base oil option	50
227321	TF500	Pulley	4 Hole Base	WC	Right	Right	Flange		50
227322	TF500	Pulley	4 Hole Base	WC	Right	Right	Flange	Base oil option	50
227323	TF500	Pulley	4 Hole Base	WC	Left	Left	Flange		50
227326	TF500	Engine	Mack Short Case	WC	Right	Right	Flange		61
227331	TF500	Pulley	6 Hole Base	WC	Left	Left	Flange	Base oil option	52
227332	TF500	Pulley	6 Hole Base	WC	Right	Right	Flange	Base oil option	52
227400	TF400	Pulley	4 Hole Base	WC	Left	Left	Flange	Base oil inlet	49
227401	TF400	Pulley	4 Hole Base	WC	Right	Right	Flange	Base oil inlet	49
227402	TF400	Pulley	4 Hole Base	WC	Left	Left	Flange	Base oil inlet	49

Part No.	Type	Drive	Category	Cooling	Inlet	Outlet	Discharge	Other Features	Page
227403	TF400	Pulley	4 Hole Base	WC	Right	Right	Flange	Base oil inlet	49
227406	TF400	Pulley	4 Hole Base	AC	Left	Left	Flange		49
227407	TF400	Pulley	4 Hole Base	AC	Right	Right	Flange		49
227408	TF400	Pulley	6 Hole Base	WC	Right	Right	Flange	Base oil option	52
227409	TF400	Pulley	6 Hole Base	WC	Left	Left	Flange	Base oil option	52
227410	TF400	Pulley	6 Hole Base	WC	Right	Right	Flange	Base oil option	52
228141	TF500	Pulley	4 Hole Base	AC	Left	Left	Flange		50
228346	TF500	Pulley	4 Hole Base	AC	Right	Right	Flange		50
228366	TF500	Pulley	Ford Side Mount	WC	Right	Right	Flange		53
228443	TF500	Engine	Cummins Ext Case	WC	Left	Left	Flange		57
228479	TF500	Pulley	4 Hole Base	WC	Left	Left	Flange	Thru drive	50
229077	TF400	Pulley	Ford Offset	WC	Left	Top	Threaded		54
229078	TF500	Pulley	Ford Offset	WC	Left	Top	Threaded		54
229525	TF500	Engine	Cummins Ext Case	WC	Left	Top	Threaded		57
229726	TF400	Engine	DDC 0° Tilt	WC	Left	Left	Flange		59
229990	TF1000	Pulley	Vertical Mount	WC	Mid	Mid	Flange		64
275317	TF400	Pulley	4 Hole Base	WC/AC	Left	Left	Flange		49
275777	TF500	Engine	DDC 75° Tilt	WC	Left	Left	Flange		61
275990	TF500	Pulley	4 Hole Base	WC	Right	Right	Flange	Thru drive	50
276166	TF400	Engine	DDC 0° Tilt	WC	Left	Left	Flange		59
276777	TF1000	Engine	Flange mount	WC	Mid	Mid	Flange		64
276778	TF400	Engine	DDC 0° Tilt	WC	Right	Right	Flange		59
276961	TF500	Engine	DDC 0° Tilt	WC	Left	Left	Flange		59
276962	TF500	Engine	DDC 0° Tilt	WC	Right	Right	Flange		59
276974	TF500	Engine	Cummins Ext Case	WC	Left	Left	Flange		57
277122	TF500	Engine	Mack Foxhead	WC	Left	Left	Flange	Mack V8	63
277694	TF500	Pulley	4 Hole Base	WC	Left	Top	Threaded		50
277730	TF500	Engine	Cat Splined Shaft	WC	Right	Right	Flange		55
277731	TF500	Engine	Cat Splined Shaft	WC	Left	Left	Flange		55
277901	TF500	Engine	Mack Short Case	WC	Right	Top	Threaded		61
278416	TF400	Pulley	4 Hole Base	WC/AC	Right	Right	Flange		49
278445	TF500	Engine	DDC 75° Tilt	WC	Right	Top	Threaded		61
278604	TF500	Engine	Mack Short Case	WC	Right	Right	Flange		61
278605	TF500	Engine	Mack Short Case	WC	Right	Right	Flange		61
279024	TF400	Pulley	4 Hole Base	WC/AC	Left	Left	Flange		49
279025	TF400	Pullev	4 Hole Base	WC/AC	Ri,aht	Riaht	Flange		49
279068	TF500	Engine	DDC 0° Tilt	WC/AC	Left	Left	Flange		59
279069	TF500	Engine	DDC 0° Tilt	WC/AC	Right	Right	Flange		59
279150	TF400	Engine	DDC 0° Tilt	WC/AC	Left	Left	Flange		59
279176	TF400	Pulley	4 Hole Base	WC/AC	Right	Top	Threaded	4 Studs in front cover	49
279282	TF400	Engine	DDC 0~ Tilt	WC/AC	Right	Right	Flange		59
279356	TF500	Pullev	4 Hole Base	WC	Left	Left	Flange	Base oil option	50
279556	TF500	Engine	Mack Short Case	WC	Left	Left	Flange		61
279995	TF500	Engine	CatTapered Shaft	WC	Left	Left	Flange		55
280369	TF600	Engine	DDC 75° Tilt	WC	Right	Top	Threaded		61
280453	TF500	Pulley	4 Hole Base	WC	Right	Top	Threaded	Base oil option	50
280556	TF600	Engine	CatTapered Shaft	WC	Left	Left	Flange		55
280570	TF600	Enaine	DDC 0°Tilt	WC	Right	Right	Flange		59
280602	TF600	Pulley	4 Hole Base	WC	Left	Left	Flange	Base oil option	50
280603	TF600	Pulley	4 Hole Base	WC	Right	Right	Flange		50
280604	TF600	Pulley	4 Hole Base	WC	Right	Right	Flange	Base oil option	50
280608	TF600	Engine	Mack Short Case	WC	Right	Right	Flange		61
280609	TF600	Engine	DDC 0° Tilt	WC	Left	Left	Flange		59
280610	TF600	Pullev	6 Hole Base	WC	Left	Left	Flanae	Base oil option	52
280611	TF600	Pulley	6 Hole Base	WC	Right	Right	Flange	Base oil option	52
280613	TF600	Pulley	4 Hole Base	WC	Left	Left	Flange		50
280622	TF600	Engine	Cummins Ext Case	WC	Left	Left	Flange		57
280626	TF600	Engine	Cummins ExtCase	WC	Left	Top	Threaded		57
280628	TF600	Engine	Mack Foxhead	WC	Left	Left	Flange	Mack V8	63
280774	TF600	Engine	CatTapered Shaft	WC	Left	Left	Flange		55

Part No.	Type	Drive	Category	Cooling	Inlet	Outlet	Discharge	Other Features	Page
281042	TF500	Engine	DDC	45° Tilt	WC	Left	Top	Threaded	60
281112	TF400	Engine	DDC	0° Tilt	WC	Right	Right	Flange	59
281157	TF600	Engine	Cat	Tapered Shaft	WC	Right	Top	Threaded	55
281677	TF600	Engine	DDC	0° Tilt	WC	Left	Top	Threaded	59
282010	TF500	Engine	DDC	0° Tilt	WC	Right	Top	Threaded	59
282011	TF600	Engine	DDC	0° Tilt	WC	Right	Top	Threaded	59
282013	TF600	Engine	DDC	45° Tilt	WC	Left	Top	Threaded	60
282025	TF600	Engine	Cat	Splined Shaft	WC	Left	Left	Flange	55
282076	TF500	Pulley	4 Hole	Base	WC	Right	Top	Threaded	50
282586	TF500	Engine	Mack	Ext Flange	WC/AC	Right	Right	Flange	62
282621	TF500	Engine	Mack	Ext Flange	WC/AC	Right	Right	Flange	62
283426	TF400	Pulley	4 Hole	Base	WC/AC	Left	Left	Flange	Base oil option	49
283429	TF400	Pulley	4 Hole	Base	WC/AC	Right	Right	Flange	Base oil option	49
283505	TF400	Pulley	Offset	Ford	WC	Right	Top	Threaded	54
283506	TF400	Pulley	Ford	Side Mount	AC	Left	Left	Flange	53
283513	TF500	Pulley	Ford	Offset	WC	Left	Top	Threaded	54
283514	TF500	Pulley	Ford	Side Mount	WC	Left	Left	Flange	53
283515	TF500	Enaine	DDC	0° Tilt	WC	Riaht	Riaht	Flange	59
283577	TF500	Engine	Mack	Foxhead	WC	Right	Right	Flange	Mack V8	63
283585	TF500	Pulley	Ford	Side Mount	WC	Right	Right	Flange	53
283690	TF500	Pulley	4 Hole	Base	WC	Left	Top	Threaded	Base oil option	50
283692	TF500	Engine	Mack	Foxhead	WC	Right	Right	Flange	Mack V8	63
284010	TF500	Engine	Mack	Short Case	WC	Right	Top	Threaded	61
284106	TF500	Enaine	DDC	45° Tilt	WC	Left	Left	Flange	60
284260	TF500	Engine	Cat	Tapered Shaft	WC	Right	Top	Flange	55
284307	TF600	Engine	Mack	Ext Flange	WC/AC	Right	Right	Flange	62
284310	TF500	Engine	Cat	Tapered Shaft	WC	Right	Top	Flange	55
284662	TF500	Engine	Mack	Ext Flange	WC/AC	Right	Right	Flange	Power steering	62
284699	TF500	Engine	Cummins	Std Case	WC	Left	Left	Flange	57
284714	TF600	Engine	Cummins	Std Case	WC	Left	Left	Flange	57
284718	TF500	Engine	Cummins	Std Case	WC	Left	Top	Threaded	57
284959	TF500	Engine	Cummins	Std Case	WC	Left	Left	Flange	57
285108	TF600	Engine	Mack	Ext Flange	WC/AC	Right	Right	Flange	Power steering	62
285252	TF500	Engine	DDC	45° Tilt	WC	Right	Top	Threaded	60
286526	TF501	Pulley	4 Hole	Base	WC/AC	Left	Left	Flange	51
286527	TF501	Pulley	4 Hole	Base	WC/AC	Right	Right	Flange	51
286528	TF501	Pulley	4 Hole	Base	WC/AC	Left	Top	Threaded	51
286529	TF501	Pulley	4 Hole	Base	WC/AC	Right	Top	Threaded	51
286530	TF501	Pulley	4 Hole	Base	WC/AC	Left	Left	Flange	Thru drive	51
286532	TF501	Pulley	4 Hole	Base	WC/AC	Left	Top	Threaded	Thru drive	51
286533	TF501	Pulley	4 Hole	Base	WC/AC	Right	Right	Flange	Thru drive	51
286535	TF501	Pulley	6 Hole	Base	WC/AC	Right	Right	Flange	52
286536	TF501	Pulley	6 Hole	Base	WC/AC	Right	Top	Threaded	52
286537	TF501	Pulley	6 Hole	Base	WC/AC	Left	Top	Threaded	52
286538	TF501	Engine	DDC	0° Tilt	WC/AC	Left	Left	Flange	59
286539	TF501	Engine	DDC	0° Tilt	WC/AC	Right	Right	Flange	59
286540	TF501	Engine	DDC	0°Tilt	WC/AC	Left	Top	Threaded	59
286541	TF501	Engine	DDC	0°Tilt	WC/AC	Right	Top	Threaded	59
286542	TF501	Engine	DDC	45° Tilt	WC/AC	Left	Top	Threaded	60
286543	TF501	Engine	DDC	45° Tilt	WC/AC	Right	Top	Threaded	60
286544	TF501	Engine	Mack	Ext Flange	WC/AC	Right	Right	Flange	Power steering	62
286546	TF501	Engine	Cat	Splined Shaft	WC/AC	Left	Top	Threaded	55
286548	TF501	Engine	Cat	Splined Shaft	WC/AC	Left	Left	Flange	55
286549	TF501	Engine	Cat	Splined Shaft	WC/AC	Right	Right	Flange	55
286550	TF501	Engine	Cat	Tapered Shaft	WC/AC	Left	Left	Flange	55
286551	TF501	Engine	Cat	Tapered Shaft	WC/AC	Right	Top	Threaded	55
286552	TF501	Engine	Cat	Tapered Shaft	WC/AC	Left	Top	Threaded	55
286554	TF501	Engine	Cummins	Std Case	WC/AC	Left	Left	Flange	58
286555	TF501	Engine	Cummins	Std Case	WC/AC	Left	Top	Threaded	58
286556	TF501	Pulley	Ford	Side Mount	WC/AC	Right	Right	Flange	54

Part No.	Type	Drive	Category	Cooling	Inlet	Outlet	Discharge	Other Features	Page
286557	TF501	Pulley	Ford Side Mount	WC/AC	Right	Top	Threaded		54
286558	TF501	Pulley	Ford Offset	WC/AC	Right	Top	Threaded	Base oil option	54
286560	TF501	Pulley	4 Hole Base	WC/AC	Left	Top	Threaded	Four front cover studs	51
286561	TF501	Pulley	Ford Offset	WC/AC	Left	Top	Threaded	Base oil option	54
286562	TF501	Pulley	Ford Offset	WC/AC	Left	Top	Threaded	Base oil option	54
286563	TF501	Engine	Volvo/White	WC/AC	Left	Top	Threaded		63
286564	TF501	Pulley	Ford Side Mount	WC/AC	Left	Left	Flange		54
286565	TF501	Pulley	Ford Side Mount	WC/AC	Right	Right	Flange		54
286566	TF501	Engine	Cat Tapered Shaft	WC/AC	Right	Top	Threaded		55
286567	TF501	Pulley	No Base	WC/AC	Right	Top	Threaded		51
286571	TF501	Engine	Mack Short Case	WC/AC	Left	Top	Threaded	Extended crankshaft	61
286572	TF501	Engine	Mack Short Case	WC/AC	Left	Top	Threaded		61
286574	TF501	Engine	Mack Foxhead	WC/AC	Left	Left	Flange	Mack V8	63
286576	TF501	Pulley	6 Hole Base	WC/AC	Right	Right	Flange		52
286578	TF501	Pulley	6 Hole Base	WC/AC	Left	Left	Flange		52
286579	TF501	Engine	DDC 0° Tilt	WC/AC	Right	Top	Threaded	Press on gear/stub shaft	60
286580	TF501	Pulley	No Base	WC/AC	Left	Left	Flange		51
286581	TF501	Engine	DDC 0° Tilt	WC/AC	Left	Top	Threaded		59
286582	TF501	Pulley	4 Hole Base	WC/AC	Left	Top	Threaded	Three front cover studs	51
286584	TF501	Engine	Cat Splined Shaft	WC/AC	Left	Top	Threaded	Fine spline (22 teeth)	56
286585	TF501	Pulley	6 Hole Base	WC/AC	Left	Left	Flange	Special crankcase base	52
286586	TF501	Pulley	4 Hole Base	WC/AC	Left	Left	Flange		51
286589	TF501	Pulley	4 Hole Base	WC/AC	Right	Right	Flange		51
286591	TF501	Pulley	4 Hole Base	WC/AC	Right	Right	Flange		51
286592	TF501	Pulley	No Base	WC/AC	Right	Right	Flange		51
286593	TF501	Engine	Cat Tapered Shaft	WC/AC	Right	Top	Threaded		55
286595	TF501	Pulley	4 Hole Base	WC/AC	Right	Top	Threaded		51
286623	TF501	Engine	DDC 0°Tilt	WC/AC	Left	Left	Flange	DDC Series 60	59
289336	TF700	Engine	Cat Flange	WC	Left	Left/Top	Optional		56
289339	TF700	Enaine	Cummins Std Case	WC	Left	Left/Top	Optional		57
289340	TF700	Engine	Mack Ext Flange	WC	Right	Right/Top	Optional	Power steering	62
289342	TF700	Engine	DDC 45° Tilt	WC	Left	Left/Top	Optional		61
289348	TF700	Engine	Mack Foxhead	WC	Left	Left/Top	Optional	Mack V8	63
289349	TF700	Engine	Cat Splined Shaft	WC	Left	Left/Top	Optional	1/2" PT oil drain	55
289350	TF700	Pulley	4 Hole Base	WC	Left	Left/Top	Optional		50
289688	TF400	Pulley	4 Hole Base	WC	Left	Left	Flange	Base adapter	49
289744	TF700	Engine	Cat Tapered Shaft	WC	Left	Left/Top	Optional	3408	56
289789	TF700	Engine	DDC 0° Tilt	WC	Right	Right/Top	Optional		59
289790	TF700	Engine	DDC 75° Tilt	WC	Left	Left/Top	Optional		61
289915	TF700	Engine	DDC 75° Tilt	WC	Right	Right/Top	Optional		61
289924	TF700	Pulley	6 Hole Base	WC	Right	Right/Top	Optional	Base oil option	53
289925	TF700	Enqine	DDC 0° Tilt	WC	Left	Left/Top	Optional		59
289941	TF700	Engine	DDC 0° Tilt	WC	Right	Right/Top	Optional		59
289964	TF700	Engine	DDC 75° Tilt	WC	Right	Right/Top	Optional		61
3018527	Holset	Engine	Cummins Std Case	WC	Right	Rear	Threaded	Rem mt governor	64
3018543	Holset	Engine	Cummins Std Case	WC	Right	Rear	Threaded	Dir mt governor	64
3049186	Holset	Engine	Cummins Std Case	WC	Right	Rear	Threaded	Univ mt governor	64
3558000	Holset	Engine	Mack Ext Flange	WC	Left	Rear	Threaded		64
KN7000	EL740	Pulley	4 Hole Base	AC	Right	Left	Threaded		65
KN7010	EL740	Pulley	4 Hole Base	AC	Right	Right	Flange	Base oil option	65
KN7020	EL740	Pulley	4 Hole Base	AC	Left	Left	Flange	Base oil option	65
KN7030	EL740	Pulley	4 Hole Base	WC/AC	Right	Left	Threaded	Base oil option	65
KN7040	EL740	Pulley	4 Hole Base	WC/AC	Right	Right	Flange		65
KN7041	EL740	Pulley	4 Hole Base	WC/AC	Left	Left	Flange	Special bottom plate	65
KN7050	EL740	Pulley	4 Hole Base	WC/AC	Left	Left	Flange		65
KN7060	EL740	Engine	DDC 0° Tilt	WC	Right	Right	Flange		69
KN7070	EL740	Engine	DDC 0° Tilt	WC	Right	Right	Flange	Thru drive	69
KN7080	EL740	Engine	DDC 0° Tilt	WC	Left	Left	Flange	Thru drive	69
KN7170	EL740	Pulley	6 Hole Base	WC/AC	Right	Right	Flange		65
KN7180	EL740	Pulley	6 Hole Base	WC/AC	Left	Left	Flange		65

Part No.	Type	Drive	Category	Cooling	Inlet	Block	Discharge	Other Features	Page
EL13020	EL1300	Pulley	4 Hole Base	WC	Right	Right	Flange		66
EL13021	EL1300	Pulley	4 Hole Base	WC	Left	Left	Flange		66
EL13022	EL1300	Pulley	4 Hole Base	WC	Left	Right	Flange	Special bottom plate	66
EL13040	EL1300	Engine	Cummins Std Case	WC	Right	Right	Top/Flange		68
EL13041	EL1300	Engine	Cummins Std Case	WC	Right	Right	Top/Flange		68
EL13050	EL1300	Engine	DDC 0° Tilt	WC	Right	Right	Flange		68
EL13051	EL1300	Engine	DDC 0° Tilt	WC	Right	Left	Flange	60 Series Non-Thru Drive	68
EL13053	EL1300	Engine	DDC 0° Tilt	WC	Right	Left	Flange	DDC Series 60	68
EL13060	EL1300	Pulley	4 Hole Base	WC	Right	Right	Flange		66
EL13070	EL1300	Engine	DDC 1°Tilt	WC	Right	Left	Flange		68
EL13080	EL1300	Engine	Cat Tapered Shaft	WC	Right	Right	Flange		67
EL13090	EL1300	Engine	DDC 41 ° Tilt	WC	Right	Right	Flange		68
EL13100	EL1300	Engine	DDC 50° Tilt	WC	Right	Right	Flange		68
EL13111	EL1300	Engine	Mack Ext Flange	WC	Left	Left	Flange	Power steering	69
EL13120	EL1300	Engine	Cat Splined Shaft	WC	Right	Right	Flange		67
EL13151	EL1300	Engine	Caterpillar Flange	WC	Right	Right	Flange		67
EL13160	EL1300	Engine	DDC 45° Tilt	WC	Left	Right	Flange		68
EL13170	EL1300	Engine	Cat Tapered Shaft	WC	Right	Right	Flange		67
EL13200	EL1300	Engine	Cat Tapered Shaft	WC	Right	Right	Flange		67
EL14111	EL3200	Engine	Mack In Line 6	WC	Left/Right	Left/Right	Flange	Gear drive	69
EL16020	EL1600	Pulley	4 Hole Base	WC	Right	Right	Flange		66
EL16040	EL1600	Engine	Cummins Std Case	WC	Right	Right	Top/Flange		68
EL16050	EL1600	Engine	DDC 0° Tilt	WC	Right	Right	Flange		68
EL16051	EL1600	Engine	DDC 0° Tilt	WC	Right	Left	Flange	60 Series Non-Thru Drive	68
EL16053	EL1600	Engine	DDC 0° Tilt	WC	Right	Left	Flange	DDC Series 60	68
EL16060	EL1600	Pulley	4 Hole Base	WC	Right	Right	Flange	Base oil feed	66
EL16070	EL1600	Engine	DDC 1° Tilt	WC	Right	Left	Flange		68
EL16072	EL1600	Engine	DDC 4° Tilt	WC	Right	Left	Flange		68
EL16080	EL1600	Engine	Cat Tapered Shaft	WC	Right	Right	Flange		67
EL16090	EL1600	Engine	DDC 41 ° Tilt	WC	Right	Right	Flange		68
EL16100	EL1600	Engine	DDC 50° Tilt	WC	Right	Right	Flange		68
EL16111	EL1600	Engine	Mack Ext Flange	WC	Left	Left	Flange	Power steering	69
EL16120	EL1600	Engine	Cat Splined Shaft	WC	Right	Right	Flange		67
EL16160	EL1600	Engine	DDC 45° Tilt	WC	Left	Right	Flange		68
EL16200	EL1600	Engine	Cat Tapered Shaft	WC	Right	Right	Flange		67
EL16250	EL1600	Engine	DDC 75° Tilt	WC	Right	Right	Flange		68
KN85020	EL850	Pulley	4 Hole Base	AC	Right	Top	Threaded		66
KN86020	EL850	Pulley	4 Hole Base	WC/AC	Right	Top	Threaded		66
KNT86230	EL850	Engine	Cummins 'B' Series	WC	Optional	Optional	Threaded		68

Note all Midland EL1300 and EL1600 Air Compressors have top discharge.

Quality Assured Remanufactured Parts

Disclaimer

All of the pictures, specifications, and other data in this section have been carefully checked with original manufacturers catalogs at the time of publication. DS Parts assumes no responsibility should any information be deemed as incorrect, and reserves the right to make changes at any time without notice.

Please note: Manufacturer's names, symbols, numbers, and descriptions are used for reference purposes only. It is not implied that any part listed by DS Parts is the product of these manufacturers.

Bendix Air Compressors

The following listing is for Bendix air compressors only. It is a numerical listing that includes all Tu-Flo 400, 500, 501, 550, 600, 700, 750, 1000, and BX2150 air compressor part numbers that were available for reference as of the date of publication. The first column refers to the Bendix original equipment part number. The second column is the part number that is used in the aftermarket as the remanufactured replacement. The last column lists the type of compressor for each part number.

OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
065021	103211	BX2150	065302	108277	TF-550	101280	289349	TF-700	102039	289339	TF-700
065038	103212	BX2150	065312	108239	TF-550	101282	101282	TF-700	102040	101158	TF-700
065046	104039	BX2150	065334	108557	TF-750	101378	289925	TF-700	102041	289350	TF-700
065047	104039	BX2150	065374	108779	TF-1400	101387	289342	TF-700	102042	289339	TF-700
065048	104039	BX2150	065375	108790	BX2150	101418	101158	TF-700	102045	289340	TF-700
065049	104041	BX2150	065376	108804	TF-550	101519	286594	TF-501	102065	286581	TF-501
065050	104042	BX2150	065382	108854	BX2150	101545	101554	TF-700	102077	286596	TF-501
065051	104043	BX2150	065387	108866	TF-550	101554	101554	TF-700	102078	286596	TF-501
065052	104044	BX2150	065388	108869	TF-750	101556	286554	TF-501	102088	289688	TF-400
065054	104102	BX2150	065408	108935	TF-750	101575	101589	TF-700	102089	102089	TF-700
065055	104103	BX2150	065409	108937	TF-550	101576	101590	TF-700	102090	286542	TF-501
065074	104397	BX2150	065424	108990	TF-550	101588	286595	TF-501	102091	286591	TF-501
065078	104548	TF-501	065425	108983	1400L	101589	101589	TF-700	102092	286591	TF-501
065079	104526	TF-501	065426	108992	TF-750	101590	101590	TF-700	102136	289344	TF-700
065080	104419	TF-501	065441	109019	1400L	101608	286546	TF-501	102137	102137	TF-700
065081	104514	TF-501	065455	109079	BX2150	101633	286543	TF-501	102143	289941	TF-700
065082	104513	TF-501	065457	109088	TF-550	101635	101636	TF-700	102151	289941	TF-700
065083	104583	1400L	065461	065461	TF-750	101636	101636	TF-700	102153	101158	TF-700
065084	104584	1400L	065465	109139	TF-550	101641	286539	TF-501	102154	101158	TF-700
065085	104418	TF-501	065466	109142	TF-750	101642	276777	TF-1000	102175	289688	TF-400
065086	104589	TF-501	065467	109147	TF-1400	101646	101158	TF-700	102179	289688	TF-400
065087	104590	TF-501	065475	109251	TF-550	101648	289924	TF-700	102180	101142	TF-400
065116	106217	BX2150	065481	109219	BX2150	101649	289925	TF-700	102181	289688	TF-400
065124	106439	BX2150	065490	109273	BX2150	101650	289941	TF-700	102193	289349	TF-700
065149	106978	BX2150	065491	109287	TF-750	101651	101636	TF-700	102211	102213	TF-700
065150	106985	BX2150	065500	109348	1400L	101652	286539	TF-501	102213	102213	TF-700
065155	107221	BX2150	065521	109382	TF-750	101656	286543	TF-501	102231	102213	TF-700
065197	107506	TF-550	065537	109429	TF-550	101661	289826	TF-400	102267	102290	TF-700
065198	107507	TF-750	065538	109430	TF-750	101861	102978	TF-700	102286	289344	TF-700
065199	107508	TF-750	065540	109440	TF-1400	101873	289688	TF-400	102289	102290	TF-700
065200	107509	TF-550	065542	065542	TF-550	101884	101884	TF-700	102290	102290	TF-700
065201	107510	TF-750	065601	109552	TF-750	101893	286539	TF-501	102302	289925	TF-700
065202	107511	TF-550	065606	109603	TF-550	101894	286535	TF-501	102305	289349	TF-700
065203	107512	TF-750	065607	109604	TF-750	101904	286591	TF-501	102327	286594	TF-501
065204	107513	TF-550	065638	109647	TF-550	101911	286544	TF-501	102328	286594	TF-501
065205	107514	TF-550	065641	108804	TF-550	101912	286544	TF-501	102396	104041	BX2150
065207	107526	BX2150	065642	109659	TF-750	101936	286591	TF-501	102405	103211	BX2150
065210	107553	1400L	101139	101158	TF-700	101964	289789	TF-700	102407	103212	BX2150
065216	107622	TF-550	101142	289158	TF-400	101965	289789	TF-700	102540	101158	TF-700
065217	107623	TF-750	101143	289437	TF-400	101966	101158	TF-700	102541	289789	TF-700
065240	107023	TF-750	101144	101144	TF-400	101969	289925	TF-700	102542	289789	TF-700
065251	107786	BX2150	101145	289340	TF-700	101970	289789	TF-700	102543	101158	TF-700
065260	107813	TF-750	101158	101158	TF-700	101971	289789	TF-700	102544	286591	TF-501
065261	107836	1400L	101242	101242	TF-400	101972	101158	TF-700	102561	102598	TF-700
065262	107869	TF-750	101243	229154	TF-400	101974	289925	TF-700	102562	289925	TF-700
065264	107866	TF-550	101244	279037	TF-400	102000	286539	TF-501	102596	102598	TF-700
065265	107919	BX2150	101245	279712	TF-400	102001	286591	TF-501	102598	102598	TF-700
065266	107917	TF-550	101246	275805	TF-400	102002	286585	TF-501	102604	102829	TF-400
065273	107981	TF-550	101247	283505	TF-400	102003	286539	TF-501	102611	276777	TF-1000
065278	108066	TF-550	101255	101256	TF-700	102004	286543	TF-501	102612	229990	TF-1000
065287	108096	1400L	101256	101256	TF-700	102021	280737	TF-500	102629	289925	TF-700
065288	108110	TF-550	101266	275317	TF-400	102022	102089	TF-700	102630	101256	TF-700
065299	108260	BX2150	101268	286539	TF-501	102037	101158	TF-700	102631	289350	TF-700
065300	108261	BX2150	101273	101282	TF-700	102038	289350	TF-700	102632	101256	TF-700

Bendix Air Compressors

OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
102640	286580	TF-501	103073	289688	TF-400	104305	289340	TF-700	104856	104930	TF-700
102651	286527	TF-501	103074	103074	TF-400	104306	289340	TF-700	104868	104914	TF-501
102655	102674	TF-400	103116	103212	BX2150	104307	289340	TF-700	104914	104914	TF-501
102656	286594	TF-501	103117	103211	BX2150	104322	104297	TF-501	104930	104930	TF-700
102658	102697	TF-501	103130	286581	TF-501	104329	103278	TF-700	104960	286615	TF-501
102674	289533	TF-400	103143	286555	TF-501	104356	289342	TF-700	104961	286616	TF-501
102675	285651	TF-400	103152	103152	TF-700	104378	104397	BX2150	104962	286617	TF-501
102688	102698	TF-501	103167	103274	TF-501	104384	104418	TF-501	104963	286618	TF-501
102691	286594	TF-501	103211	103211	BX2150	104390	104419	TF-501	104977	289348	TF-700
102695	102698	TF-501	103212	103212	BX2150	104397	104397	BX2150	104978	289340	TF-700
102696	102697	TF-501	103248	104039	BX2150	104398	104422	TF-501	104979	289340	TF-700
102697	102697	TF-501	103273	103274	TF-501	104399	104399	TF-501	106157	286526	TF-501
102698	102698	TF-501	103274	103274	TF-501	104400	104399	TF-501	106162	104422	TF-501
102726	102734	TF-501	103276	103278	TF-700	104416	104418	TF-501	106163	106217	BX2150
102734	102734	TF-501	103277	103278	TF-700	104417	104419	TF-501	106169	286526	TF-501
102742	102742	TF-501	103278	103278	TF-700	104422	104422	TF-501	106217	106217	BX2150
102743	102742	TF-501	103286	103286	TF-700	104425	104041	BX2150	106240	286619	TF-501
102764	102742	TF-501	103287	104043	BX2150	104430	104041	BX2150	106265	106268	TF-700
102769	102785	TF-501	103289	227406	TF-400	104431	104041	BX2150	106268	106268	TF-700
102781	286538	TF-501	103349	104039	BX2150	104436	286526	TF-501	106276	106278	TF-501
102784	289342	TF-700	103350	104039	BX2150	104437	286526	TF-501	106277	106278	TF-501
102785	102785	TF-501	103351	104039	BX2150	104465	104473	TF-501	106278	106278	TF-501
102790	102790	TF-1000	103352	104043	BX2150	104473	104473	TF-501	106287	106268	TF-700
102795	104041	BX2150	103718	104041	BX2150	104490	286585	TF-501	106290	286619	TF-501
102797	286594	TF-501	103773	104042	BX2150	104500	104583	1400L	106301	286620	TF-501
102822	286592	TF-501	103793	104044	BX2150	104501	104584	1400L	106307	106388	TF-501
102823	102835	TF-700	103819	104042	BX2150	104515	104513	TF-501	106310	286621	TF-501
102829	227406	TF-400	103820	104044	BX2150	104516	104513	TF-501	106322	107493	TF-700
102830	227407	TF-400	103842	104039	BX2150	104517	104514	TF-501	106340	286620	TF-501
102835	102835	TF-700	103843	104039	BX2150	104518	104590	TF-501	106341	286621	TF-501
102850	289348	TF-700	103880	103880	TF-700	104519	104419	TF-501	106371	106388	TF-501
102851	289348	TF-700	103881	103881	TF-700	104520	104526	TF-501	106374	286623	TF-501
102870	102953	TF-501	103882	103882	TF-700	104521	104548	TF-501	106375	106375	TF-501
102883	102955	TF-501	103890	286591	TF-501	104522	104589	TF-501	106381	106268	TF-700
102945	289340	TF-700	103918	289925	TF-700	104523	104513	TF-501	106388	106388	TF-501
102952	102952	TF-400	103952	286539	TF-501	104524	104513	TF-501	106401	286582	TF-501
102953	102953	TF-501	103968	289340	TF-700	104525	104514	TF-501	106759	286624	TF-501
102954	102953	TF-501	104001	104102	BX2150	104564	104597	TF-501	106770	286622	TF-501
102955	102955	TF-501	104002	104103	BX2150	104583	104583	1400L	106771	286622	TF-501
102964	101158	TF-700	104021	104041	BX2150	104584	104584	1400L	106791	106791	TF-700
102965	289350	TF-700	104031	289688	TF-400	104585	104583	1400L	106792	106792	TF-700
102966	289339	TF-700	104032	286591	TF-501	104586	104584	1400L	106793	106793	TF-700
102967	289925	TF-700	104034	286591	TF-501	104597	104597	TF-501	106793	289282	TF-700
102968	289925	TF-700	104038	104039	BX2150	104601	289925	TF-700	106831	286625	TF-501
102978	101884	TF-700	104039	104039	BX2150	104606	104607	TF-501	106839	286528	TF-501
102979	289349	TF-700	104040	104039	BX2150	104607	104607	TF-501	106840	286528	TF-501
102980	103074	TF-400	104041	104041	BX2150	104693	286555	TF-501	106843	284662	TF-500
102987	102989	TF-501	104042	104042	BX2150	104715	289925	TF-700	106858	289925	TF-700
102988	102989	TF-501	104043	104043	BX2150	104716	289925	TF-700	106877	107296	TF-501
102989	102989	TF-501	104044	104044	BX2150	104720	102989	TF-501	106878	107296	TF-501
102991	286563	TF-501	104059	104041	BX2150	104721	102989	TF-501	106879	107526	BX2150
103006	103286	TF-700	104102	104102	BX2150	104744	104041	BX2150	106880	107526	BX2150
103037	281751	TF-600	104103	104103	BX2150	104745	104041	BX2150	106890	106791	TF-700
103038	227406	TF-400	104108	104039	BX2150	104746	286582	TF-501	106913	106915	TF-700
103039	227407	TF-400	104155	104041	BX2150	104747	106978	BX2150	106915	107139	TF-700
103042	103152	TF-700	104176	104189	TF-700	104841	103211	BX2150	106915	106913	TF-700
103048	289924	TF-700	104188	104189	TF-700	104842	103211	BX2150	106944	106967	TF-501
103051	289924	TF-700	104189	104189	TF-700	104843	103212	BX2150	106945	106967	TF-501
103071	286591	TF-501	104236	104041	BX2150	104844	103212	BX2150	106966	106977	TF-501
103072	286591	TF-501	104274	104297	TF-501	104854	286586	TF-501	106980	286528	TF-501

Bendix Air Compressors

OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
106983	106985	BX2150	107781	107507	TF-750	108214	286580	TF-501	108867	108869	TF-750
106984	106985	BX2150	107782	107512	TF-750	108215	286593	TF-501	108868	108869	TF-750
106985	106985	BX2150	107783	107813	TF-750	108216	286594	TF-501	108869	108869	TF-750
106999	104607	TF-501	107784	107623	TF-750	108217	286622	TF-501	108875	108876	TF-501
107000	107506	TF-550	107785	107622	TF-550	108218	101884	TF-700	108876	108876	TF-501
107001	107507	TF-750	107806	107917	TF-550	108219	289336	TF-700	108924	108110	TF-550
107002	107508	TF-750	107807	107917	TF-550	108220	103278	TF-700	108925	106439	BX2150
107003	107509	TF-550	107812	107813	TF-750	108221	109302	TF-1000	108930	286527	TF-501
107004	107510	TF-750	107813	107813	TF-750	108221	289907	TF-1000	108934	108935	TF-750
107005	107511	TF-550	107819	107507	TF-750	108222	104583	1400L	108935	108935	TF-750
107006	107512	TF-750	107820	107507	TF-750	108223	104042	BX2150	108936	108937	TF-550
107007	107513	TF-550	107823	107836	1400L	108224	108271	TF-501	108937	108937	TF-550
107008	107514	TF-550	107838	107840	TF-501	108225	108272	TF-501	108969	107509	TF-550
107023	107023	TF-750	107839	107840	TF-501	108226	108273	TF-501	108970	286551	TF-501
107042	107622	TF-550	107840	107840	TF-501	108236	107981	TF-550	108975	108272	TF-501
107043	107023	TF-750	107865	107919	BX2150	108237	107981	TF-550	108981	108983	1400L
107051	107623	TF-750	107866	107866	TF-550	108238	107813	TF-750	108982	108990	TF-550
107053	107023	TF-750	107867	107869	TF-750	108247	108261	BX2150	108983	108983	1400L
107095	107622	TF-550	107868	107869	TF-750	108248	108260	BX2150	108986	107509	TF-550
107096	107623	TF-750	107869	107869	TF-750	108260	108260	BX2150	108987	107981	TF-550
107097	107296	TF-501	107871	107508	TF-750	108261	108261	BX2150	108988	107917	TF-550
107098	107514	TF-550	107913	107526	BX2150	108269	108269	TF-501	108989	107023	TF-750
107099	107513	TF-550	107914	107509	TF-550	108269	108198	TF-501	108990	108990	TF-550
107139	106915	TF-700	107917	107917	TF-550	108270	108199	TF-501	108991	108992	TF-750
107198	107221	BX2150	107918	107919	BX2150	108270	108270	TF-501	108992	108992	TF-750
107199	107221	BX2150	107919	109273	BX2150	108271	108271	TF-501	109013	108804	TF-550
107221	107221	BX2150	107946	107526	BX2150	108271	108224	TF-501	109018	109019	1400L
107238	107296	TF-501	107974	107506	TF-550	108272	108975	TF-501	109019	109019	1400L
107296	108090	TF-501	107975	107506	TF-550	108272	108225	TF-501	109030	108854	BX2150
107296	106878	TF-501	107979	107981	TF-550	108272	108272	TF-501	109037	286625	TF-501
107296	107296	TF-501	107980	107981	TF-550	108273	108226	TF-501	109045	108790	BX2150
107494	289915	TF-700	107981	107981	TF-550	108295	107512	TF-750	109069	109079	BX2150
107495	106793	TF-700	108018	107511	TF-550	108327	108329	TF-550	109072	109073	TF-501
107506	107506	TF-550	108065	108066	TF-550	108329	108329	TF-550	109073	109073	TF-501
107507	107507	TF-750	108066	108066	TF-550	108330	108329	TF-550	109113	107526	BX2150
107508	107508	TF-750	108070	286625	TF-501	108334	106439	BX2150	109114	107526	BX2150
107509	107509	TF-550	108084	107296	TF-501	108335	106439	BX2150	109136	107981	TF-550
107510	107510	TF-750	108090	107296	TF-501	108447	106439	BX2150	109138	109139	TF-550
107511	107511	TF-550	108108	108110	TF-550	108448	106439	BX2150	109139	109139	TF-550
107512	107512	TF-750	108109	108110	TF-550	108456	108110	TF-550	109141	109142	TF-750
107513	107513	TF-550	108110	108110	TF-550	108457	108110	TF-550	109142	109142	TF-750
107514	107514	TF-550	108111	108277	TF-550	108467	108110	TF-550	109197	107506	TF-550
107518	107866	TF-550	108112	108277	TF-550	108468	108110	TF-550	109198	107507	TF-750
107519	107866	TF-550	108193	107981	TF-550	108583	107506	TF-550	109201	109219	BX2150
107526	107526	BX2150	108194	107981	TF-550	108584	107507	TF-750	109212	108804	TF-550
107532	286580	TF-501	108198	108269	TF-501	108588	107514	TF-550	109219	109219	BX2150
107533	286594	TF-501	108199	108270	TF-501	108589	107514	TF-550	109253	107981	TF-550
107534	286552	TF-501	108201	275114	TF-300	108622	289790	TF-700	109263	286528	TF-501
107535	103274	TF-501	108202	102674	TF-400	108649	106439	BX2150	109267	109273	BX2150
107550	107526	BX2150	108203	289818	TF-400	108651	107553	1400L	109273	109273	BX2150
107551	107553	1400L	108204	289534	TF-400	108727	107526	BX2150	109279	109251	TF-550
107552	107553	1400L	108205	277731	TF-500	108729	107917	TF-550	109285	109287	TF-750
107553	109348	1400L	108206	283996	TF-500	108730	107981	TF-550	109286	109287	TF-750
107622	107622	TF-550	108207	284003	TF-500	108731	106913	TF-700	109287	109287	TF-750
107623	107623	TF-750	108208	102742	TF-501	108732	107023	TF-750	109319	109139	TF-550
107682	104584	1400L	108209	103274	TF-501	108733	107553	1400L	109320	107508	TF-750
107683	289339	TF-700	108210	107296	TF-501	108854	108260	BX2150	109321	109139	TF-550
107738	107526	BX2150	108211	286546	TF-501	108864	108866	TF-550	109322	109142	TF-750
107779	107508	TF-750	108212	286549	TF-501	108865	108866	TF-550	109335	109251	TF-550
107780	107510	TF-750	108213	286552	TF-501	108866	108866	TF-550	109336	109287	TF-750

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OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
109347	109348	1400L	226435	228138	TF-400	226815	227323	TF-500	227331	227331	TF-500
109348	109348	1400L	226436	227320	TF-500	226816	227321	TF-500	227332	227332	TF-500
109360	107221	BX2150	226437	227322	TF-500	226829	227407	TF-400	227390	227390	TF-400
109367	107981	TF-550	226438	227325	TF-500	226849	226849	TF-400	227400	227400	TF-400
109380	109079	BX2150	226445	227322	TF-500	226855	228371	TF-500	227401	227401	TF-400
109382	109382	TF-750	226463	227401	TF-400	226862	276961	TF-500	227402	227402	TF-400
109383	109382	TF-750	226466	227326	TF-500	226868	226868	TF-400	227403	227403	TF-400
109394	109394	TF-501	226467	227326	TF-500	226890	227413	TF-400	227404	227404	TF-400
109425	109429	TF-550	226468	227326	TF-500	226893	227402	TF-400	227405	227405	TF-400
109426	109430	TF-750	226482	227415	TF-400	226947	228141	TF-500	227406	227406	TF-400
109429	109429	TF-550	226485	228451	TF-400	226948	227402	TF-400	227407	227407	TF-400
109430	109430	TF-750	226499	276962	TF-500	226949	226949	TF-400	227408	227408	TF-400
109522	107981	TF-550	226517	227332	TF-500	226978	227440	TF-500	227409	227409	TF-400
109542	109603	TF-550	226518	227401	TF-400	226981	226981	TF-400	227410	227410	TF-400
109543	109603	TF-550	226519	227401	TF-400	226982	226981	TF-400	227411	228451	TF-400
109544	109603	TF-550	226520	227401	TF-400	226984	227400	TF-400	227412	227412	TF-400
109545	109604	TF-750	226523	227322	TF-500	226990	227323	TF-500	227413	227413	TF-400
109546	109604	TF-750	226526	227320	TF-500	227001	227001	TF-400	227414	227414	TF-400
109547	109604	TF-750	226527	227322	TF-500	227029	227331	TF-500	227415	227415	TF-400
109591	104583	1400L	226528	227322	TF-500	227042	227322	TF-500	227421	227406	TF-400
109592	109147	1400L	226529	227322	TF-500	227044	227440	TF-500	227422	228361	TF-500
109603	109603	TF-550	226531	227408	TF-400	227047	227402	TF-400	227428	228362	TF-500
109604	109604	TF-750	226534	227413	TF-400	227049	227323	TF-500	227431	227406	TF-400
109626	109552	TF-750	226535	226535	TF-500	227089	227409	TF-400	227438	228344	TF-500
109633	109659	TF-750	226536	228269	TF-500	227094	228269	TF-500	227440	227440	TF-500
109646	109647	TF-550	226538	226538	TF-500	227110	227403	TF-400	227446	289821	TF-400
109647	109647	TF-550	226549	227415	TF-400	227138	228451	TF-400	227450	227321	TF-500
109649	109653	TF-550	226550	227323	TF-500	227139	228451	TF-400	227451	229078	TF-500
109653	108804	TF-550	226557	227403	TF-400	227140	227325	TF-500	227471	275113	TF-300
109657	109382	TF-750	226558	227403	TF-400	227155	227401	TF-400	227480	227414	TF-400
109659	109659	TF-750	226562	227402	TF-400	227156	227321	TF-500	227481	275116	TF-300
109699	107221	BX2150	226576	227326	TF-500	227171	227403	TF-400	227487	227322	TF-500
109700	107786	BX2150	226654	228268	TF-500	227194	228448	TF-500	227538	228138	TF-400
198142	198142	TF-750	226656	228370	TF-500	227195	228443	TF-500	227544	228139	TF-500
225700	275116	TF-300	226657	228371	TF-500	227206	227410	TF-400	227546	101246	TF-400
225754	275113	TF-300	226659	227401	TF-400	227207	227331	TF-500	227548	227402	TF-400
225841	275117	TF-300	226664	227322	TF-500	227208	227332	TF-500	227551	227402	TF-400
226085	227400	TF-400	226685	227321	TF-500	227216	227328	TF-500	227552	227323	TF-500
226086	227320	TF-500	226686	227322	TF-500	227220	227400	TF-400	227557	228449	TF-500
226090	227326	TF-500	226687	227324	TF-500	227226	227226	TF-400	227563	227403	TF-400
226156	227323	TF-500	226688	227400	TF-400	227227	227400	TF-400	227565	227320	TF-500
226278	227320	TF-500	226689	227404	TF-400	227247	228354	TF-500	227579	276961	TF-500
226279	227322	TF-500	226695	227325	TF-500	227250	228661	TF-500	227584	227408	TF-400
226280	227322	TF-500	226705	227402	TF-400	227274	227322	TF-500	227585	227323	TF-500
226282	228139	TF-500	226706	227403	TF-400	227275	227406	TF-400	227587	227587	TF-400
226283	226430	TF-500	226711	227323	TF-500	227279	227401	TF-400	227606	229532	TF-400
226284	226284	TF-500	226716	227400	TF-400	227284	227403	TF-400	227655	227321	TF-500
226286	227321	TF-500	226717	227320	TF-500	227299	227406	TF-400	227675	228139	TF-500
226287	228353	TF-500	226719	226719	TF-400	227318	227406	TF-400	227676	227321	TF-500
226288	276961	TF-500	226720	227414	TF-400	227320	227320	TF-500	227724	227321	TF-500
226335	227403	TF-400	226725	228138	TF-400	227321	227321	TF-500	227738	227406	TF-400
226339	227321	TF-500	226726	228353	TF-500	227322	227322	TF-500	227739	227402	TF-400
226341	275113	TF-300	226727	227402	TF-400	227323	227323	TF-500	227740	228141	TF-500
226342	275116	TF-300	226728	228140	TF-500	227324	227324	TF-500	227741	227323	TF-500
226364	227406	TF-400	226749	227412	TF-400	227325	227325	TF-500	227789	228447	TF-500
226365	227401	TF-400	226755	227402	TF-400	227326	227326	TF-500	227790	228443	TF-500
226366	227322	TF-500	226760	227400	TF-400	227327	227327	TF-500	227791	227332	TF-500
226430	226430	TF-500	226766	227322	TF-500	227328	227328	TF-500	227792	228268	TF-500
226433	227400	TF-400	226767	227322	TF-500	227329	276962	TF-500	227793	227408	TF-400
226434	227401	TF-400	226777	227327	TF-500	227330	276961	TF-500	227799	228269	TF-500

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OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
227817	228479	TF-500	228312	227321	TF-500	228373	276961	TF-500	229000	229000	TF1000
227819	227412	TF-400	228313	227322	TF-500	228399	228399	TF-400	229001	229001	TF1000
227855	275116	TF-300	228314	227321	TF-500	228417	228141	TF-500	229013	227406	TF-400
227864	227864	TF-400	228315	227321	TF-500	228421	276961	TF-500	229017	227410	TF-400
227872	227403	TF-400	228316	227321	TF-500	228426	227321	TF-500	229020	227408	TF-400
227905	228346	TF-500	228317	227320	TF-500	228435	228435	TF-500	229031	227331	TF-500
227917	275114	TF-300	228318	227321	TF-500	228439	228439	TF-400	229032	227332	TF-500
227928	276962	TF-500	228319	227322	TF-500	228443	228443	TF-500	229056	227402	TF-400
227929	275990	TF-500	228320	227320	TF-500	228446	276961	TF-500	229057	227403	TF-400
227936	227936	TF-500	228321	227322	TF-500	228447	228447	TF-500	229058	227321	TF-500
227954	227412	TF-400	228322	227322	TF-500	228448	228448	TF-500	229059	229059	TF-500
227970	227401	TF-400	228323	227322	TF-500	228449	228449	TF-500	229062	227323	TF-500
228036	228330	TF-500	228324	227322	TF-500	228450	227320	TF-500	229077	101246	TF-400
228053	260439	TF-500	228325	227324	TF-500	228451	228451	TF-400	229078	229078	TF-500
228054	228141	TF-500	228326	227323	TF-500	228459	227323	TF-500	229079	227406	TF-400
228058	276962	TF-500	228327	227323	TF-500	228478	228478	TF-400	229080	227406	TF-400
228072	275114	TF-300	228328	227323	TF-500	228479	228479	TF-500	229081	227406	TF-400
228080	228362	TF-500	228329	227321	TF-500	228482	227324	TF-500	229086	227323	TF-500
228083	289823	TF-400	228330	227320	TF-500	228486	227322	TF-500	229087	227323	TF-500
228093	228350	TF-500	228331	227323	TF-500	228503	227400	TF-400	229088	227323	TF-500
228094	228351	TF-500	228332	276962	TF-500	228596	227400	TF-4~00	229089	228141	TF-500
228102	227323	TF-500	228333	276961	TF-500	228610	227406	TF-400	229090	228141	TF-500
228103	227401	TF-400	228334	276961	TF-500	228645	227320	TF-500	229091	228141	TF-500
228117	228352	TF-500	228335	276962	TF-500	228661	228661	TF-500	229092	227402	TF-400
228124	227406	TF-400	228336	227325	TF-500	228670	227403	TF-400	229093	227402	TF-400
228128	228451	TF-400	228337	227325	TF-500	228671	227321	TF-500	229094	227402	TF-400
228137	227402	TF-400	228338	227325	TF-500	228765	227406	TF-400	229096	227403	TF-400
228138	228138	TF-400	228339	227323	TF-500	228766	228141	TF-500	229144	229144	TF-500
228139	228139	TF-500	228340	227323	TF-500	228767	227406	TF-400	229154	229154	TF-400
228140	227323	TF-500	228341	227323	TF-500	228768	228141	TF-500	229159	227402	TF-400
228141	228141	TF-500	228342	227323	TF-500	228771	227414	TF-400	229160	227323	TF-500
228153	228366	TF-500	228343	228141	TF-500	228775	227322	TF-500	229164	228139	TF-500
228169	227406	TF-400	228344	228344	TF-500	228789	228443	TF-500	229183	227402	TF-400
228176	227406	TF-400	228345	228141	TF-500	228826	227322	TF-500	229184	227406	TF-400
228177	227407	TF-400	228346	228346	TF-500	228827	227400	TF-400	229185	227414	TF-400
228192	229078	TF-500	228347	228141	TF-500	228828	227320	TF-500	229186	227390	TF-400
228203	228203	TF-400	228348	228141	TF-500	228835	229525	TF-500	229187	229821	TF-400
228205	101246	TF-400	228349	227327	TF-500	228848	227322	TF-500	229222	276962	TF-500
228228	228228	TF-500	228350	228350	TF-500	228849	227407	TF-400	229439	227321	TF-500
228255	227407	TF-400	228351	228351	TF-500	228850	227406	TF-400	229440	227323	TF-500
228256	227407	TF-400	228352	228352	TF-500	228858	275113	TF-300	229451	227406	TF-400
228266	228443	TF-500	228353	228353	TF-500	228879	276962	TF-500	229460	227402	TF-400
228267	227332	TF-500	228354	228354	TF-500	228880	276962	TF-500	229461	227403	TF-400
228268	228268	TF-500	228355	227326	TF-500	228898	228898	TF-400	229470	276961	TF-500
228269	228269	TF-500	228356	227328	TF-500	228902	227403	TF-400	229476	227321	TF-500
228270	227331	TF-500	228357	227440	TF-500	228906	227403	TF-400	229491	227414	TF-400
228271	227208	TF-500	228358	227440	TF-500	228916	227408	TF-400	229525	229525	TF-500
228287	228287	TF-500	228359	228139	TF-500	228917	229544	TF-500	229531	227412	TF-400
228300	228661	TF-500	228360	228139	TF-500	228918	228316	TF-500	229532	229532	TF-400
228301	276962	TF-500	228361	228361	TF-500	228949	229562	TF-500	229541	227320	TF-500
228302	227320	TF-500	228362	228362	TF-500	228954	228141	TF-500	229543	227321	TF-500
228303	227323	TF-500	228363	228479	TF-500	228956	227321	TF-500	229544	229544	TF-500
228304	227322	TF-500	228364	275990	TF-500	228971	227322	TF-500	229548	227326	TF-500
228305	227323	TF-500	228365	228362	TF-500	228976	277409	TF-400	229562	229562	TF-500
228306	227321	TF-500	228366	228366	TF-500	228977	227322	TF-500	229563	276961	TF-500
228307	227320	TF-500	228367	229078	TF-500	228988	227326	TF-500	229569	227403	TF-400
228308	227322	TF-500	228368	229078	TF-500	228989	227328	TF-500	229570	228443	TF-500
228309	227323	TF-500	228369	228139	TF-500	228990	227415	TF-400	229651	275115	TF-300
228310	227322	TF-500	228370	228370	TF-500	228991	227402	TF-400	229655	227321	TF-500
228311	227322	TF-500	228371	228371	TF-500	228999	227323	TF-500	229668	227323	TF-500

Bendix Air Compressors

OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
229669	227406	TF-400	275350	227401	TF-400	276113	227321	TF-500	276911	101143	TF-400
229670	227402	TF-400	275351	227323	TF-500	276136	289444	TF-400	276912	275063	TF-400
229671	228141	TF-500	275352	277745	TF1000	276143	227401	TF-400	276913	227321	TF-500
229672	227323	TF-500	275391	227402	TF-400	276148	227321	TF-500	276915	276962	TF-500
229681	229681	TF-500	275392	227323	TF-500	276166	289444	TF-400	276946	276946	TF-500
229694	276961	TF-500	275404	227326	TF-500	276167	276961	TF-500	276951	228443	TF-500
229695	276962	TF-500	275409	229562	TF-500	276168	289823	TF-400	276952	228443	TF-500
229726	229726	TF-400	275415	227322	TF-500	276169	289444	TF-400	276961	276961	TF-500
229754	229144	TF-500	275423	277808	TF-400	276220	276476	TF-500	276962	276962	TF-500
229768	227326	TF-500	275433	227324	TF-500	276236	277730	TF-500	276969	227322	TF-500
229774	227403	TF-400	275471	275471	TF-400	276257	227326	TF-500	276971	276971	TF-500
229775	227414	TF-400	275482	260442	TF-500	276258	227328	TF-500	276974	276974	TF-500
229776	227321	TF-500	275494	275317	TF-400	276259	229562	TF-500	276978	276978	TF-500
229787	227390	TF-400	275514	275514	TF-500	276260	227326	TF-500	276985	229544	TF-500
229790	227323	TF-500	275568	277122	TF-500	276306	227327	TF-500	277016	228443	TF-500
229825	227406	TF-400	275578	228443	TF-500	276308	229544	TF-500	277025	227323	TF-500
229826	229826	TF1000	275700	275700	TF-500	276309	227323	TF-500	277055	227400	TF-400
229839	229826	TF1000	275701	227406	TF-400	276310	275317	TF-400	277056	227401	TF-400
229843	227321	TF-500	275702	227407	TF-400	276323	227401	TF-400	277057	227320	TF-500
229861	229861	TF-500	275703	227407	TF-400	276324	276324	TF1000	277058	227322	TF-500
229895	276974	TF-500	275714	227407	TF-400	276337	227322	TF-500	277082	227400	TF-400
229898	227412	TF-400	275725	275725	TF1000	276360	227400	TF-400	277099	227415	TF-400
229990	229990	TF1000	275729	228443	TF-500	276361	227322	TF-500	277111	229525	TF-500
275007	276962	TF-500	275751	227402	TF-400	276378	227322	TF-500	277122	277122	TF-500
275039	276961	TF-500	275752	227323	TF-500	276379	227322	TF-500	277127	277127	TF-400
275046	275113	TF-300	275777	275777	TF-500	276384	227402	TF-400	277128	228366	TF-500
275047	227407	TF-400	275781	227401	TF-400	276387	229154	TF-400	277130	227400	TF-400
275048	227407	TF-400	275784	227402	TF-400	276388	227401	TF-400	277181	277181	TF-500
275049	227321	TF-500	275786	227323	TF-500	276389	227401	TF-400	277198	277198	TF-500
275050	227323	TF-500	275803	229821	TF-400	276408	229000	TF1000	277219	227323	TF-500
275059	227326	TF-500	275804	228366	TF-500	276409	229839	TF1000	277241	276961	TF-500
275063	275063	TF-400	275805	101246	TF-400	276410	227406	TF-400	277242	276962	TF-500
275070	227323	TF-500	275806	229078	TF-500	276475	228661	TF-500	277248	227401	TF-400
275071	260440	TF-500	275807	228661	TF-500	276476	276476	TF-500	277249	227322	TF-500
275109	227323	TF-500	275808	289823	TF-400	276478	276478	TF-500	277250	227322	TF-500
275111	227321	TF-500	275817	228287	TF-500	276517	227321	TF-500	277252	227403	TF-400
275113	275113	TF-300	275830	276476	TF-500	276550	227402	TF-400	277255	227321	TF-500
275114	275114	TF-300	275833	226849	TF-400	276584	277731	TF-500	277287	229000	TF1000
275115	275115	TF-300	275834	275834	TF-500	276597	229544	TF-500	277334	227321	TF-500
275116	275116	TF-300	275836	227323	TF-500	276600	229525	TF-500	277342	227401	TF-400
275117	275117	TF-300	275857	276961	TF-500	276615	276615	TF1000	277343	227401	TF-400
275133	227323	TF-500	275886	227323	TF-500	276642	229525	TF-500	277344	227401	TF-400
275166	277901	TF-500	275887	227323	TF-500	276755	276755	TF-400	277345	227323	TF-500
275169	229525	TF-500	275934	229823	TF-400	276765	227326	TF-500	277346	227323	TF-500
275170	229000	TF1000	275973	275973	TF-400	276775	276775	TF-400	277347	227323	TF-500
275185	229821	TF-400	275989	227401	TF-400	276776	276755	TF-400	277348	227323	TF-500
275190	101246	TF-400	275990	275990	TF-500	276777	276777	TF1000	277386	227320	TF-500
275203	275203	TF1000	275991	227322	TF-500	276778	101143	TF-400	277395	227400	TF-400
275209	229562	TF-400	276001	227410	TF-400	276782	227401	TF-400	277397	227320	TF-500
275217	227406	TF-400	276002	227331	TF-500	276786	227322	TF-500	277398	227320	TF-500
275231	275231	TF-500	276003	227332	TF-500	276791	227404	TF-400	277399	227320	TF-500
275260	229078	TF-500	276051	227409	TF-400	276831	289827	TF-400	277400	227322	TF-500
275271	275271	TF-500	276067	227323	TF-500	276833	276833	TF-400	277462	228228	TF-500
275286	229990	TF1000	276089	227322	TF-500	276834	228141	TF-500	277463	276961	TF-500
275308	275117	TF-300	276090	227321	TF-500	276835	228346	TF-500	277560	278681	TF-500
275316	228661	TF-500	276092	227323	TF-500	276836	228346	TF-500	277577	277577	TF-500
275317	275317	TF-400	276109	275063	TF-400	276840	227323	TF-500	277581	101246	TF-400
275318	275514	TF-500	276110	228346	TF-500	276843	276961	TF-500	277582	227401	TF-400
275322	289823	TF-400	276111	276961	TF-500	276879	227323	TF-500	277622	227322	TF-500
275349	227322	TF-500	276112	227323	TF-500	276883	227322	TF-500	277624	227332	TF-500

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OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
277636	227404	TF-400	278560	275990	TF-500	279203	227323	TF-500	279864	227320	TF-500
277637	227323	TF-500	278561	275990	TF-500	279204	228661	TF-500	279865	279865	TF-400
277645	275231	TF-500	278562	276777	TF1000	279225	279046	TF-500	279887	101143	TF-400
277646	227414	TF-400	278600	278604	TF-500	279248	279248	TF-400	279890	278445	TF-500
277647	228287	TF-500	278601	278605	TF-500	279252	279252	TF-500	279892	280613	TF-600
277672	227327	TF-500	278602	278606	TF-500	279260	279260	TF-400	279920	101143	TF-400
277673	227322	TF-500	278603	278607	TF-500	279261	227323	TF-500	279921	276962	TF-500
277675	227321	TF-500	278604	278604	TF-500	279282	101143	TF-400	279954	227322	TF-500
277686	276961	TF-500	278605	278605	TF-500	279285	227323	TF-500	279965	278606	TF-500
277693	227321	TF-500	278606	278606	TF-500	279292	227321	TF-500	279966	278606	TF-500
277694	277694	TF-500	278607	278607	TF-500	279310	227403	TF-400	279967	278606	TF-500
277730	277730	TF-500	278608	278604	TF-500	279311	227321	TF-500	279987	279865	TF-400
277731	277731	TF-500	278609	278605	TF-500	279312	276961	TF-500	279988	279988	TF-400
277733	276584	TF-500	278610	278606	TF-500	279313	227403	TF-400	279991	227407	TF-400
277737	227321	TF-500	278611	278607	TF-500	279314	227321	TF-500	279992	227321	TF-500
277738	227327	TF-500	278630	276236	TF-500	279318	227406	TF-400	279993	229476	TF-500
277739	227327	TF-500	278631	276584	TF-500	279319	227402	TF-400	279995	279995	TF-500
277742	227323	TF-500	278646	278646	TF-400	279320	279321	TF-400	279996	279995	TF-500
277743	227323	TF-500	278659	227331	TF-500	279321	279321	TF-400	279997	279995	TF-500
277744	277745	TF1000	278681	275777	TF-500	279349	227400	TF-400	280094	289444	TF-400
277785	227323	TF-500	278776	278776	TF-500	279356	279356	TF-500	280095	276961	TF-500
277794	277799	TF-400	278790	227332	TF-500	279360	275317	TF-400	280098	227321	TF-500
277799	277799	TF-400	278799	278433	TF-500	279362	289827	TF-400	280220	280604	TF-600
277801	227403	TF-400	278806	227321	TF-500	279367	227323	TF-500	280221	280603	TF-600
277802	227321	TF-500	278810	277730	TF-500	279381	277694	TF-500	280222	280622	TF-600
277803	227402	TF-400	278811	277731	TF-500	279384	279384	TF-500	280237	280602	TF-600
277804	227323	TF-500	278812	276236	TF-500	279389	278858	TF-400	280238	280238	TF-600
277808	277808	TF-400	278813	276584	TF-500	279396	227323	TF-500	280239	279176	TF-400
277844	227321	TF-500	278827	227323	TF-500	279407	227322	TF-500	280254	289444	TF-400
277855	277855	TF-400	278858	278858	TF-400	279483	279483	TF-500	280258	277855	TF-400
277878	283804	TF-500	278881	277694	TF-500	279512	227402	TF-400	280267	228141	TF-500
277890	227331	TF-500	278952	227407	TF-400	279522	279556	TF-500	280268	227323	TF-500
277901	277901	TF-500	278955	278955	TF-500	279525	279525	TF1000	280280	280280	TF-500
277903	277903	TF-500	278968	228287	TF-500	279526	229990	TF1000	280282	280981	TF-600
277920	277920	TF-400	278969	228141	TF-500	279556	279556	TF-500	280283	281701	TF-600
277935	227402	TF-400	279005	279005	TF-500	279580	279580	TF-500	280286	281751	TF-600
277937	227390	TF-400	279006	279005	TF-500	279589	279589	TF-400	280298	280298	TF-500
278342	227331	TF-500	279008	276961	TF-500	279636	279790	TF1000	280299	280298	TF-500
278381	278416	TF-400	279009	279009	TF-500	279651	228141	TF-500	280310	280622	TF-600
278382	278452	TF-500	279022	289443	TF-400	279662	280609	TF-600	280363	289444	TF-400
278396	227332	TF-500	279023	289443	TF-400	279696	279696	TF-400	280365	276962	TF-500
278399	227415	TF-400	279024	279024	TF-400	279701	275063	TF-400	280367	289444	TF-400
278400	227415	TF-400	279025	279025	TF-400	279702	229476	TF-500	280368	276961	TF-500
278405	227320	TF-500	279037	102952	TF-400	279707	279707	TF-500	280369	280369	TF-600
278414	227414	TF-400	279045	227329	TF-500	279709	227414	TF-400	280373	227407	TF-400
278429	227321	TF-500	279046	279046	TF-500	279712	101245	TF-400	280379	280453	TF-500
278433	278433	TF-500	279047	228346	TF-500	279717	227322	TF-500	280384	102952	TF-400
278445	278445	TF-500	279067	279068	TF-500	279760	279988	TF-400	280385	279260	TF-400
278452	278452	TF-500	279068	279068	TF-500	279762	280609	TF-600	280386	280386	TF-400
278453	278452	TF-500	279069	279069	TF-500	279766	279526	TF1000	280387	229078	TF-500
278469	227401	TF-400	279072	279072	TF-500	279790	279790	TF1000	280388	228366	TF-500
278501	278501	TF-500	279073	279073	TF-500	279802	279802	TF-500	280391	280391	TF-400
278503	227403	TF-400	279074	279074	TF-500	279815	275834	TF-500	280392	280392	TF-600
278534	227406	TF-400	279150	289443	TF-400	279816	275834	TF-500	280393	280393	TF-600
278554	227403	TF-400	279161	229990	TF1000	279838	279838	TF-500	280422	280422	TF-600
278555	227400	TF-400	279162	275725	TF1000	279839	279839	TF-500	280428	280428	TF-600
278556	227402	TF-400	279172	279321	TF-400	279846	279046	TF-500	280429	280429	TF-600
278557	227320	TF-500	279176	279176	TF-400	279858	229000	TF1000	280432	102952	TF-400
278558	227322	TF-500	279193	227440	TF-500	279859	227323	TF-500	280438	227406	TF-400
278559	227322	TF-500	279194	229990	TF1000	279863	227402	TF-400	280445	280603	TF-600

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OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
280446	280446	TF-600	280728	280728	TF-400	281184	281184	TF-400	281743	280540	TF-600
280447	280447	TF-600	280729	280729	TF-400	281192	281184	TF-400	281751	281751	TF-600
280453	280453	TF-500	280737	280737	TF-500	281193	281184	TF-400	281761	281761	TF1000
280462	228141	TF-500	280746	280611	TF-600	281194	281195	TF-400	281762	281761	TF1000
280469	280603	TF-600	280748	280611	TF-600	281195	281195	TF-400	281783	227322	TF-500
280490	277694	TF-500	280767	280767	TF-600	281196	281195	TF-400	281786	227400	TF-400
280498	280453	TF-500	280774	280774	TF-600	281199	227323	TF-500	281787	227401	TF-400
280500	227323	TF-500	280779	280779	TF-600	281209	289827	TF-400	281789	227320	TF-500
280501	280501	TF-500	280780	280608	TF-600	281214	227406	TF-400	281790	279865	TF-400
280502	280501	TF-500	280781	228479	TF-500	281216	280607	TF-600	281828	280613	TF-600
280503	280501	TF-500	280783	280964	TF-500	281220	281220	TF-400	281876	276615	TF1000
280514	280626	TF-600	280784	280784	TF-600	281221	227320	TF-500	281879	227400	TF-400
280517	279176	TF-400	280797	280613	TF-600	281222	227320	TF-500	281885	276962	TF-500
280520	280520	TF-600	280798	280369	TF-600	281286	101242	TF-400	281902	283530	TF-400
280522	280520	TF-600	280811	227321	TF-500	281338	277127	TF-400	281909	227332	TF-500
280525	280609	TF-600	280825	279662	TF-600	281341	281341	TF-600	281911	227332	TF-500
280526	280526	TF-600	280828	227321	TF-500	281368	229001	TF1000	281921	227410	TF-400
280538	280540	TF-600	280831	227322	TF-500	281401	227323	TF-500	281932	289823	TF-400
280540	280540	TF-600	280936	227322	TF-500	281415	228141	TF-500	281940	279073	TF-500
280549	280551	TF-600	280852	280605	TF-600	281420	228141	TF-500	281942	279073	TF-500
280551	280551	TF-600	280855	280609	TF-600	281430	281430	TF-500	281963	281963	TF-600
280556	280556	TF-600	280859	280628	TF-600	281443	228141	TF-500	281975	227331	TF-500
280565	280565	TF-500	280860	280628	TF-600	281469	283585	TF-500	281977	279589	TF-400
280570	280570	TF-600	280891	280570	TF-600	281487	276236	TF-500	281978	279176	TF-400
280573	275777	TF-500	280897	280609	TF-600	281488	277730	TF-500	281990	282460	TF-600
280575	227407	TF-400	280947	279865	TF-400	281513	280602	TF-600	281996	281996	TF-400
280579	280622	TF-600	280950	280624	TF-600	281527	280609	TF-600	282005	227321	TF-500
280589	280626	TF-600	280956	227407	TF-400	281531	281531	TF-600	282010	282010	TF-500
280597	279707	TF-500	280958	280611	TF-600	281532	281532	TF-600	282011	282011	TF-600
280600	280600	TF-600	280961	280963	TF-500	281533	281533	TF-600	282012	281042	TF-500
280602	280602	TF-600	280962	280963	TF-500	281540	284068	TF-500	282013	282013	TF-600
280603	280603	TF-600	280963	280963	TF-500	281541	284068	TF-500	282023	282023	TF-500
280604	280604	TF-600	280964	280962	TF-500	281592	227402	TF-400	282025	282025	TF-600
280605	280613	TF-600	280967	227322	TF-500	281593	281593	TF-500	282044	229078	TF-500
280606	280606	TF-600	280989	281042	TF-500	281596	227406	TF-400	282076	282076	TF-500
280607	280526	TF-600	281007	281007	TF-600	281600	281718	TF-500	282094	286538	TF-501
280608	280608	TF-600	281008	281008	TF-600	281601	281338	TF-400	282100	286545	TF-501
280609	280609	TF-600	281017	227407	TF-400	281602	102952	TF-400	282114	286545	TF-501
280610	280610	TF-600	281020	284010	TF-500	281603	283585	TF-500	282126	227401	TF-400
280611	280611	TF-600	281021	284010	TF-500	281606	227323	TF-500	282127	227402	TF-400
280612	280612	TF-600	281042	281042	TF-500	281614	279525	TF1000	282131	227320	TF-500
280613	280605	TF-600	281043	281042	TF-500	281619	275231	TF-500	282132	227320	TF-500
280614	280602	TF-600	281051	281051	TF-600	281622	281622	TF-400	282137	228141	TF-500
280620	280620	TF-600	281059	227321	TF-500	281624	281622	TF-400	282138	227322	TF-500
280622	280622	TF-600	281079	280447	TF-600	281661	280964	TF-500	282139	227321	TF-500
280623	280611	TF-600	281085	229544	TF-500	281677	281677	TF-600	282140	227322	TF-500
280624	280624	TF-600	281086	281086	TF-500	281683	281718	TF-500	282141	227322	TF-500
280626	280626	TF-600	281091	229990	TF1000	281701	280611	TF-600	282148	228479	TF-500
280628	280628	TF-600	281094	227401	TF-400	281713	280713	TF-600	282149	227412	TF-400
280629	280629	TF-600	281095	271127	TF-500	281715	227402	TF-400	282154	280540	TF-600
280630	280603	TF-600	281112	281112	TF-400	281717	227323	TF-500	282155	228228	TF-500
280631	280631	TF-600	281118	281933	TF1000	281718	281718	TF-500	282156	229823	TF-400
280643	280611	TF-600	281128	281128	TF-500	281719	231718	TF-500	282159	228138	TF-400
280644	227321	TF-500	281144	280386	TF-400	281726	278416	TF-400	282213	228479	TF-500
280647	280603	TF-600	281145	102952	TF-400	281728	278416	TF-400	282217	282023	TF-500
280648	280604	TF-600	281146	228366	TF-500	281730	279068	TF-500	282219	227406	TF-400
280679	280604	TF-600	281155	281051	TF-600	281731	281731	TF-500	282260	228661	TF-500
280680	280680	TF-600	281156	227402	TF-400	281732	279073	TF-500	282261	276961	TF-500
280706	227322	TF-500	281157	281157	TF-600	281733	281733	TF-500	282262	227440	TF-500
280727	280727	TF-400	281169	227320	TF-500	281734	280540	TF-600	282263	282023	TF-500

Bendix Air Compressors

OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
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282274	280611	TF-600	282621	282621	TF-500	283388	227331	TF-500	283531	283530	TF-400
282275	280611	TF-600	282622	281430	TF-500	283389	227331	TF-500	283532	289534	TF-400
282287	275114	TF-300	282623	228141	TF-500	283390	227332	TF-500	283533	289534	TF-400
282289	280540	TF-600	282626	276962	TF-500	283391	229544	TF-500	283562	283562	TF-600
282348	227321	TF-500	282710	278416	TF-400	283392	227332	TF-500	283577	283577	TF-500
282349	227407	TF-400	282711	227321	TF-500	283404	283996	TF-500	283578	101245	TF-400
282371	279556	TF-500	282713	227321	TF-500	283405	283996	TF-500	283585	283585	TF-500
282373	279556	TF-500	282745	276962	TF-500	283406	283996	TF-500	283592	227321	TF-500
282383	289444	TF-400	282749	282749	TF-500	283424	276961	TF-500	283600	227403	TF-400
282384	289444	TF-400	282783	101242	TF-400	283425	289814	TF-400	283605	284003	TF-500
282386	101143	TF-400	282785	280369	TF-600	283426	289814	TF-400	283606	284003	TF-500
282387	101143	TF-400	282787	282586	TF-500	283427	289814	TF-400	283612	289823	TF-400
282389	276961	TF-500	282788	282788	TF-600	283428	283429	TF-400	283644	283644	TF-500
282395	276961	TF-500	282789	227323	TF-500	283429	283429	TF-400	283646	283644	TF-500
282396	276961	TF-500	282800	284306	TF-600	283431	283432	TF-400	283647	283813	TF-500
282397	276962	TF-500	282824	228139	TF-500	283432	283432	TF-400	283648	283813	TF-500
282398	276962	TF-500	282853	282853	TF-600	283434	283435	TF-400	283662	283662	TF-600
282400	280609	TF-600	282875	227406	TF-400	283435	283435	TF-400	283663	228479	TF-500
282401	280609	TF-600	282896	227407	TF-400	283437	283438	TF-500	283664	283664	TF-500
282402	280570	TF-600	282904	282904	TF-500	283438	283438	TF-500	283666	283664	TF-500
282403	280570	TF-600	282928	282928	TF-500	283440	283441	TF-500	283667	228479	TF-500
282404	276777	TF1000	282938	284037	TF-500	283441	283441	TF-500	283669	283669	TF1000
282405	276777	TF1000	282968	227403	TF-400	283443	281731	TF-500	283686	228141	TF-500
282406	275725	TF1000	282971	280603	TF-600	283444	281731	TF-500	283689	283690	TF-500
282413	280609	TF-600	282984	228479	TF-500	283446	280280	TF-500	283690	283690	TF-500
282428	275990	TF-500	282986	228479	TF-500	283447	280280	TF-500	283692	283692	TF-500
282430	281902	TF-400	283002	284306	TF-600	283449	279072	TF-500	283706	283669	TF1000
282431	281902	TF-400	283004	285099	TF-600	283450	279072	TF-500	283707	283669	TF1000
282435	282435	TF-600	283025	283026	TF-500	283452	283453	TF-500	283711	283711	TF-500
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282452	282452	TF-600	283031	227323	TF-500	283456	283456	TF-500	283782	278604	TF-500
282457	280369	TF-600	283045	283506	TF-400	283458	279068	TF-500	283783	278604	TF-500
282460	280602	TF-600	283046	283046	TF-400	283459	279068	TF-500	283784	277122	TF-500
282462	227400	TF-400	283047	283514	TF-500	283461	279069	TF-500	283785	277122	TF-500
282468	280602	TF-600	283048	283515	TF-500	283462	279069	TF-500	283786	283787	TF-500
282498	280602	TF-600	283063	281338	TF-400	283468	281042	TF-500	283787	282621	TF-500
282509	282013	TF-600	283064	283585	TF-500	283480	282013	TF-600	283788	277901	TF-500
282521	282521	TF-600	283089	228287	TF-500	283482	229990	TF1000	283789	277901	TF-500
282546	282013	TF-600	283273	284662	TF-500	283495	283495	TF-500	283791	227326	TF-500
282554	282749	TF-500	283274	284662	TF-500	283502	101242	TF-400	283792	227326	TF-500
282555	228346	TF-500	283276	283276	TF1000	283503	227323	TF-500	283794	278452	TF-500
282564	227321	TF-500	283282	282904	TF-500	283504	101242	TF-400	283795	278452	TF-500
282567	227407	TF-400	283299	283299	TF-500	283505	101247	TF-400	283796	278607	TF-500
282577	280603	TF-600	283317	283317	TF-600	283506	283506	TF-400	283797	278607	TF-500
282578	280602	TF-600	283331	279995	TF-500	283507	283046	TF-400	283802	282620	TF-500
282579	280602	TF-600	283332	279995	TF-500	283508	101246	TF-400	283803	282620	TF-500
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282581	280602	TF-600	283335	281541	TF-500	283510	102952	TF-400	283805	283805	TF-500
282582	280609	TF-600	283339	276961	TF-500	283511	281338	TF-400	283808	283808	TF-600
282586	282586	TF-500	283340	283340	TF1000	283512	281338	TF-400	283809	280501	TF-500
282587	281677	TF-600	283345	280622	TF-600	283513	283513	TF-500	283810	280501	TF-500
282589	282586	TF-500	283348	283348	TF1000	283514	283514	TF-500	283812	283813	TF-500
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282591	229525	TF-500	283367	289444	TF-400	283516	229078	TF-500	283815	283816	TF-500
282596	101247	TF-400	283368	227408	TF-400	283517	275804	TF-500	283816	283816	TF-500
282597	283513	TF-500	283369	227408	TF-400	283526	283530	TF-400	283820	285331	TF-600
282618	282620	TF-500	283371	227409	TF-400	283527	283530	TF-400	283821	285331	TF-600
282619	282621	TF-500	283372	227409	TF-400	283528	289534	TF-400	283822	280628	TF-600

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OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
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283824	284306	TF-600	284078	276962	TF-500	284402	284402	TF-500	284968	228661	TF-500
283825	284306	TF-600	284081	279966	TF-500	284404	228661	TF-500	284973	284974	TF-500
283837	280570	TF-600	284082	280298	TF-500	284405	277122	TF-500	284974	284974	TF-500
283842	282801	TF-600	284101	229000	TF1000	284406	277122	TF-500	284975	284974	TF-500
283843	282801	TF-600	284106	284106	TF-500	284407	277122	TF-500	284984	228141	TF-500
283845	280570	TF-600	284121	284121	TF-600	284409	280613	TF-600	284988	284988	TF-500
283922	283967	TF-500	284133	280602	TF-600	284410	284411	TF-600	285099	285107	TF-600
283924	276961	TF-500	284134	279589	TF-400	284411	284411	TF-600	285100	285108	TF-600
283950	276961	TF-500	284135	279176	TF-400	284415	227414	TF-400	285107	285107	TF-600
283955	280570	TF-600	284136	227407	TF-400	284440	227321	TF-500	285108	285108	TF-600
283962	289823	TF-400	284138	283585	TF-500	284581	284662	TF-500	285128	277122	TF-500
283963	279707	TF-500	284140	284160	TF-500	284659	284664	TF-600	285129	277122	TF-500
283965	283506	TF-400	284148	227323	TF-500	284662	284662	TF-500	285130	285131	TF-500
283966	283506	TF-400	284160	284160	TF-500	284663	284662	TF-500	285131	285131	TF-500
283967	283967	TF-500	284163	283967	TF-500	284664	284664	TF-600	285132	285131	TF-500
283969	281533	TF-600	284172	227407	TF-400	284682	281042	TF-500	285157	285157	TF-500
283970	281533	TF-600	284179	284179	TF-500	284693	281042	TF-500	285158	285158	TF-600
283971	280611	TF-600	284180	284252	TF1000	284696	276961	TF-500	285159	227407	TF-400
283972	283609	TF-600	284184	284262	TF-500	284699	284699	TF-500	285187	280609	TF-600
283973	280610	TF-600	284252	284252	TF1000	284710	284711	TF-500	285193	285193	TF1000
283974	280610	TF-600	284253	284252	TF1000	284711	284711	TF-500	285200	285252	TF-500
283988	283989	TF-600	284257	284259	TF-600	284714	284714	TF-600	285204	284662	TF-500
283989	283989	TF-600	284258	280604	TF-600	284717	284718	TF-500	285205	284662	TF-500
283991	229525	TF-500	284259	284259	TF-600	284718	284718	TF-500	285206	275725	TF1000
283992	229525	TF-500	284260	284260	TF-500	284719	284720	TF-600	285208	285209	TF-500
283994	283994	TF-600	284262	284262	TF-500	284720	284720	TF-600	285209	285209	TF-500
283995	283996	TF-500	284265	284265	TF-500	284761	283585	TF-500	285252	285252	TF-500
283996	283996	TF-500	284266	284266	TF-500	284762	283585	TF-500	285253	285253	TF-500
283997	283996	TF-500	284267	227332	TF-500	284763	102952	TF-400	285274	285275	TF-500
283998	229990	TF1000	284268	275277	TF-500	284764	102952	TF-400	285275	285275	TF-500
284002	284003	TF-500	284269	279069	TF-500	284765	281338	TF-400	285283	285275	TF-500
284003	284003	TF-500	284270	280282	TF-600	284766	281338	TF-400	285284	285275	TF-500
284005	277730	TF-500	284271	280238	TF-600	284788	229990	TF1000	285312	275700	TF-500
284006	277730	TF-500	284272	284272	TF-600	284789	284790	TF-500	285323	280556	TF-600
284007	281488	TF-500	284276	279069	TF-500	284790	284790	TF-500	285331	280608	TF-600
284008	284010	TF-500	284281	227406	TF-400	284796	227403	TF-400	285332	285333	TF-500
284009	284010	TF-500	284283	227402	TF-400	284797	227321	TF-500	285333	285333	TF-500
284010	284010	TF-500	284287	227323	TF-500	284803	284804	TF-600	285334	279995	TF-500
284011	277731	TF-500	284288	281042	TF-500	284804	284804	TF-600	285335	279995	TF-500
284012	277731	TF-500	284298	227320	TF-500	284819	284160	TF-S00	285359	281042	TF-500
284014	227403	TF-400	284306	284307	TF-600	284820	284160	TF-500	285370	280609	TF-600
284015	228269	TF-500	284307	284307	TF-600	284824	227320	TF-500	285393	284714	TF-600
284016	228443	TF-500	284309	284310	TF-500	284855	284714	TF-600	285458	284106	TF-500
284017	276974	TF-500	284310	284310	TF-500	284864	284959	TF-500	285471	280613	TF-600
284018	280622	TF-600	284311	284311	TF-500	284865	282586	TF-500	285478	284699	TF-500
284019	277694	TF-500	284319	282586	TF-500	284866	282586	TF-500	285479	284714	TF-600
284020	277694	TF-500	284324	227326	TF-500	284908	284699	TF-500	285480	279838	TF-500
284022	280556	TF-600	284325	227326	TF-500	284909	284699	TF-500	285510	227332	TF-500
284023	279995	TF-500	284327	277122	TF-500	284910	284718	TF-500	285512	280603	TF-600
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284030	284030	TF-600	284369	285100	TF-600	284914	284714	TF-600	285576	286558	TF-501
284034	227332	TF-500	284370	284171	TF-600	284915	284720	TF-600	285587	227320	TF-500
284037	284037	TF-500	284371	275114	TF-300	284916	284720	TF-600	285590	281042	TF-500
284048	229990	TF1000	284373	284374	TF-300	284924	282013	TF-600	285591	276136	TF-400
284055	281042	TF-500	284374	284374	TF-300	284933	284699	TF-500	285593	227403	TF-400
284067	281541	TF-500	284378	280613	TF-600	284934	284934	TF-500	285601	285601	TF-500
284068	284068	TF-500	284379	277901	TF-500	284936	279995	TF-500	285617	289388	TF-400
284069	281541	TF-500	284380	275834	TF-500	284937	279995	TF-500	285625	280609	TF-600

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OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
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285707	228443	TF-500	285964	286527	TF-501	286037	286554	TF-501	286528	286528	TF-501
285717	277122	TF-500	285965	286526	TF-501	286038	286554	TF-501	286529	286529	TF-501
285718	277122	TF-500	285966	286526	TF-501	286040	286555	TF-501	286530	286530	TF-501
285734	281338	TF-400	285967	286536	TF-501	286042	286555	TF-501	286531	286531	TF-501
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285736	283585	TF-500	285970	286538	TF-501	286094	280609	TF-600	286533	286533	TF-501
285737	283585	TF-500	285971	286538	TF-501	286103	286554	TF-501	286534	286578	TF-501
285799	284662	TF-500	285972	286540	TF-501	286104	286563	TF-501	286535	286535	TF-501
285800	279384	TF-500	285973	286538	TF-501	286105	286572	TF-501	286536	286536	TF-501
285801	279384	TF-500	285974	286541	TF-501	286106	286571	TF-501	286537	286537	TF-501
285802	279384	TF-500	285975	286579	TF-501	286119	286572	TF-501	286538	286538	TF-501
285806	284959	TF-500	285976	286539	TF-501	286121	286571	TF-501	286539	286539	TF-501
285813	285813	TF-500	285977	286539	TF-501	286128	286526	TF-501	286540	286540	TF-501
285815	284662	TF-500	285978	286539	TF-501	286131	286526	TF-501	286541	286541	TF-501
285826	285827	TF-500	285980	286540	TF-501	286133	286527	TF-501	286542	286542	TF-501
285827	285827	TF-500	285981	286540	TF-501	286134	286526	TF-501	286543	286543	TF-501
285837	276136	TF-400	285982	286540	TF-501	286145	286574	TF-501	286544	286544	TF-501
285861	286528	TF-501	285983	286540	TF-501	286146	286574	TF-501	286545	286545	TF-501
285862	286576	TF-501	285984	286539	TF-501	286157	275317	TF-400	286546	286546	TF-501
285865	283515	TF-500	285985	286538	TF-501	286159	282013	TF-600	286547	286547	TF-501
285866	283515	TF-500	285986	286538	TF-501	286161	282928	TF-500	286548	286548	TF-501
285868	286556	TF-501	285987	286538	TF-501	286200	286539	TF-501	286549	286549	TF-501
285870	227322	TF-500	285988	286539	TF-501	286204	286539	TF-501	286550	286550	TF-501
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285878	286546	TF-501	285992	286543	TF-501	286218	286526	TF-501	286553	286553	TF-501
285898	285898	TF-500	285993	286542	TF-501	286220	285108	TF-600	286554	286554	TF-501
285899	286542	TF-501	285994	286542	TF-501	286221	285108	TF-600	286555	286555	TF-501
285923	286S76	TF-501	285995	286542	TF-501	286286	278646	TF-400	286556	286556	TF-501
285924	286578	TF-501	285997	286539	TF-501	286294	289444	TF-400	286557	286557	TF-501
285925	286536	TF-501	286003	286545	TF-501	286296	289444	TF-400	286558	286558	TF-501
285926	286535	TF-501	286004	286544	TF-501	286357	279176	TF-400	286559	286559	TF-501
285927	286558	TF-501	286005	286544	TF-501	286358	282011	TF-600	286560	286560	TF-501
285928	286578	TF-501	286006	286561	TF-501	286360	279589	TF-400	286561	286561	TF-501
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285930	286526	TF-501	286008	286556	TF-501	286387	228141	TF-500	286563	286563	TF-501
285932	286527	TF-501	286009	286565	TF-501	286439	228141	TF-500	286564	286564	TF-501
285937	286535	TF-501	286010	286565	TF-501	286441	281042	TF-500	286565	286565	TF-501
285939	286532	TF-501	286011	286556	TF-501	286444	280609	TF-600	286566	286566	TF-501
285940	280613	TF-600	286012	286S56	TF-501	286456	281042	TF-500	286567	286567	TF-501
285941	286537	TF-501	286014	286557	TF-501	286457	281042	TF-500	286569	286569	TF-501
285942	286532	TF-501	286015	286556	TF-501	286462	281430	TF-500	286570	286570	TF-501
285943	286535	TF-501	286016	286556	TF-501	286463	281430	TF-500	286571	286571	TF-501
285947	286533	TF-501	286017	286580	TF-501	286467	280609	TF-600	286572	286572	TF-501
285948	286529	TF-501	286018	286580	TF-501	286468	280609	TF-600	286573	286573	TF-501
285949	286529	TF-501	286019	286547	TF-501	286471	286471	TF-600	286574	286574	TF-501
285950	286541	TF-501	286020	286547	TF-501	286473	282013	TF-600	286575	286575	TF-501
285951	286529	TF-501	286021	286548	TF-501	286474	280609	TF-600	286576	286576	TF-501
285952	286527	TF-501	286022	286548	TF-501	286475	280623	TF-600	286577	286536	TF-501
285953	286526	TF-501	286023	286549	TF-501	286477	282013	TF-600	286578	286578	TF-501
285954	286526	TF-501	286024	286549	TF-501	286478	282013	TF-600	286579	286579	TF-501
285955	286526	TF-501	286025	286550	TF-501	286479	280613	TF-600	286580	286580	TF-501
285956	286526	TF-501	286026	286550	TF-501	286480	284121	TF-600	286581	286581	TF-501
285957	286527	TF-501	286027	286551	TF-501	286482	282013	TF-600	286582	286582	TF-501
285958	286527	TF-501	286028	286552	TF-501	286510	280610	TF-600	286583	286544	TF-501
285959	286526	TF-501	286029	286546	TF-501	286514	286528	TF-501	286584	286594	TF-501
285960	286560	TF-501	286030	286552	TF-501	286517	286517	TF-501	286585	286585	TF-501
285961	286527	TF-501	286031	286552	TF-501	286521	286540	TF-501	286586	286586	TF-501

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OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
286587	286587	TF-501	287237	101246	TF-400	288951	286546	TF-501	289403	227406	TF-400
286589	286589	TF-501	287303	286526	TF-501	288952	277694	TF-500	289404	289443	TF-400
286590	286590	TF-501	287315	228287	TF-500	288974	286526	TF-501	289405	227407	TF-400
286591	286591	TF-501	287377	227407	TF-400	288975	280609	TF-600	289406	289443	TF-400
286592	286592	TF-501	287378	227407	TF-400	288982	286544	TF-501	289407	227406	TF-400
286593	286593	TF-501	287405	101246	TF-400	288989	288989	TF1000	289408	227407	TF-400
286594	286594	TF-501	287483	286526	TF-501	289003	289545	TF-400	289409	289823	TF-400
286595	286595	TF-501	287599	284790	TF-500	289015	286591	TF-501	289410	227407	TF-400
286596	286596	TF-501	287605	286546	TF-501	289043	286594	TF-501	289411	289443	TF-400
286599	286599	TF-501	287609	286566	TF-501	289097	286535	TF-501	289412	227407	TF-400
286615	286540	TF-501	287610	286566	TF-501	289121	286585	TF-501	289413	101143	TF-400
286616	286543	TF-501	287629	286528	TF-501	289123	281677	TF-600	289414	275317	TF-400
286617	286528	TF-501	287631	286567	TF-501	289158	101142	TF-400	289415	281220	TF-400
286618	286555	TF-501	287632	286567	TF-501	289159	289336	TF-700	289416	227407	TF-400
286619	286623	TF-501	287633	286543	TF-501	289172	289172	TF-600	289417	289823	TF-400
286622	286622	TF-501	287636	287636	TF1000	289184	229154	TF-400	289418	289814	TF-400
286623	286623	TF-501	287641	286542	TF-501	289238	289350	TF-700	289419	278416	TF-400
286625	286528	TF-501	287768	282013	TF-600	289246	289348	TF-700	289420	227406	TF-400
286626	102697	TF-501	287769	282013	TF-600	289251	289340	TF-700	289421	101144	TF-400
286630	286542	TF-501	287792	286542	TF-501	289257	289347	TF-700	289422	283429	TF-400
286637	286579	TF-501	287793	286542	TF-501	289258	289349	TF-700	289423	278416	TF-400
286640	286560	TF-501	287826	286541	TF-501	289261	286593	TF-501	289424	275317	TF-400
286641	286526	TF-501	287828	287828	TF-600	289262	289925	TF-700	289425	227406	TF-400
286649	286471	TF-600	287842	277694	TF-500	289263	289915	TF-700	289426	278416	TF-400
286652	277694	TF-500	287887	287887	TF-600	289264	289790	TF-700	289427	289611	TF-400
286660	286542	TF-501	287982	289545	TF-400	289265	289925	TF-700	289428	275317	TF-400
286662	286530	TF-501	287988	283662	TF-600	289267	289941	TF-700	289429	289443	TF-400
286663	286532	TF-501	287989	283662	TF-600	289269	289941	TF-700	289430	289814	TF-400
286664	286533	TF-501	288035	286570	TF-501	289276	289342	TF-700	289431	289443	TF-400
286683	286535	TF-501	288060	286527	TF-501	289281	289925	TF-700	289432	278416	TF-400
286684	286526	TF-501	288061	286527	TF-501	289282	289915	TF-700	289433	289443	TF-400
286692	286527	TF-501	288062	286526	TF-501	289289	289941	TF-700	289434	289820	TF-400
286742	286742	TF1000	288071	286594	TF-501	289290	289925	TF-700	289435	289610	TF-400
286767	286527	TF-501	288087	286565	TF-501	289292	289789	TF-700	289436	289443	TF-400
286803	286575	TF-501	288088	286565	TF-501	289300	289339	TF-700	289437	101143	TF-400
286815	286517	TF-501	288260	280570	TF-600	289301	289339	TF-700	289443	289443	TF-400
286818	280609	TF-600	288294	286533	TF-501	289318	289342	TF-700	289444	289444	TF-400
286836	286836	TF-600	288297	289541	TF-400	289321	289925	TF-700	289495	280609	TF-600
286841	286471	TF-600	288302	286589	TF-501	289323	289925	TF-700	289496	289496	TF-400
286866	286866	TF-600	288313	289541	TF-400	289327	289342	TF-700	289498	275317	TF-400
286867	286866	TF-600	288320	286541	TF-501	289328	289925	TF-700	289508	289508	TF-400
286870	286870	TF-600	288418	289388	TF-400	289330	289344	TF-700	289513	283435	TF-400
286871	286870	TF-600	288481	288481	TF-600	289331	289342	TF-700	289532	289532	TF-400
286872	286527	TF-501	288578	288578	TF1000	289333	289941	TF-700	289533	102674	TF-400
286884	286562	TF-501	288658	286528	TF-501	289336	289336	TF-700	289534	289534	TF-400
286885	286562	TF-501	288674	286543	TF-501	289337	289336	TF-700	289541	289541	TF-400
286888	287037	TF-600	288686	284714	TF-600	289339	289339	TF-700	289545	289545	TF-400
286923	286569	TF-501	288693	286586	TF-501	289340	289340	TF-700	289548	281677	TF-600
286970	286554	TF-501	288700	289545	TF-400	289342	299342	TF-700	289593	277920	TF-400
286974	286539	TF-501	288710	288710	TF-600	289344	289344	TF-700	289610	289610	TF-400
287024	281677	TF-600	288714	288714	TF-600	289346	289339	TF-700	289611	289611	TF-400
287034	286564	TF-501	288715	288715	TF-600	289347	289347	TF-700	289620	286590	TF-501
287037	287037	TF-600	288734	288734	TF-500	289348	289348	TF-700	289648	281677	TF-600
287076	286538	TF-501	288776	280369	TF-600	289349	289349	TF-700	289687	289688	TF-400
287105	287105	TF-600	288784	227407	TF-400	289350	289350	TF-700	289688	289688	TF-400
287108	286554	TF-501	288842	286581	TF-501	289351	289925	TF-700	289743	289744	TF-700
287109	286530	TF-501	288890	288890	TF-500	289388	289388	TF-400	289744	289744	TF-700
287132	227402	TF-400	288906	286546	TF-501	289400	289388	TF-400	289751	286592	TF-501
287232	283669	TF1000	288930	229990	TF1000	289401	275317	TF-400	289753	280609	TF-600
287233	287233	TF1000	288942	286582	TF-501	289402	275317	TF-400	289789	289789	TF-700

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OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
289790	289790	TF-700	289827	276831	TF-400	289966	289339	TF-700			
289792	281677	TF-600	289838	289789	TF-700	289969	289969	TF-700			
289793	289793	TF-600	289847	289924	TF-700	297887	276778	TF-400			
289802	283669	TF1000	289863	289941	TF-700	299112	228353	TF-500			
289807	286538	TF-501	289864	289941	TF-700	299901	280238	TF-600			
289811	289925	TF-700	289865	289350	TF-700	383449	279073	TF-500			
289814	289814	TF-400	289866	289925	TF-700	581730	279068	TF-500			
289816	278416	TF-400	289867	289969	TF-700						
289817	283429	TF-400	289868	289964	TF-700						
289818	227407	TF-400	289877	275317	TF-400						
289819	227406	TF-400	289907	289907	TF1000						
289820	289820	TF-400	289915	289915	TF-700						
289821	289821	TF-400	289924	289924	TF-700						
289822	289822	TF-400	289925	289925	TF-700						
289823	289823	TF-400	289940	289941	TF-700						
289824	289824	TF-400	289941	289941	TF-700						
289825	227414	TF-400	289964	289964	TF-700						
289826	289826	TF-400	289965	289789	TF-700						

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The following listing is for Midland air compressors and governors. It is a numerical listing that includes all EL740, EL850, EL1300, EL1400, and EL1600 air compressor part numbers that were available for reference as of the date of publication. The first column refers to the Midland original equipment part number. The second column is the part number that is used in the aftermarket as the remanufactured replacement.

OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
N30190A	KN18530	Gov	N4119W	KN7030	EL740	N5217E	KN12040	MODEL 12	N5308C	KN7040	EL740
N30190B	KN18530	Gov	N4120 SERIES	KN12050	MODEL 12	N5217F	KN12040	MODEL 12	N5308D	KN7040	EL740
N30190C	KN18530	Gov	N4125 SERIES	KN12210	MODEL 12	N5217G	KN12040	MODEL 12	N5309	KN7170	EL740
N30190G	KN18531	Gov	N4137 SERIES	KN12200	MODEL 12	N5217H	KN12040	MODEL 12	N5309A	KN7180	EL740
N30190H	KN18531	Gov	N4160 SERIES	KN7000	EL740	N5217N	KN12040	MODEL 12	N5310 SERIES	KN7041	EL740
N30190J	KN18531	Gov	N5060 SERIES	KN12200	MODEL 12	N5217R	KN12040	MODEL 12	N5406 SERIES	KN7020	EL740
N30190K	KN18530	Gov	N5084 SERIES	KN7030	EL740	N5217BA	KN12040	MODEL 12	N5408 SERIES	KN7010	EL740
N30190L	KN18530	Gov	N5085 SERIES	KN7030	EL740	N5217BD	KN12040	MODEL 12	N5409 SERIES	KN7020	EL740
N30190M	KN18530	Gov	N5098A	KN7000	EL740	N5217BE	KN12040	MODEL 12	N5502A	KN7070	EL740
N30190N	KN18530	Gov	N5098W	KN7030	EL740	N5217BF	KN12040	MODEL 12	N5502B	KN7070	EL740
N30190S	KN18530	Gov	N5098AW	KN7030	EL740	N5217BG	KN12040	MODEL 12	N5502F	KN7070	EL740
N30190W	KN18530	Gov	N5098CW	KN7030	EL740	N5222 SERIES	KN12140	MODEL 12	N5502C	KN7060	EL740
N30190Y	KN18530	Gov	N5098DW	KN7030	EL740	N5224 SERIES	KN12160	MODEL 12	N5502G	KN7060	EL740
N30190AA	KN18532	Gov	N5098EW	KN7030	EL740	N5235 SERIES	KN12151	MODEL 12	N5502J	KN7060	EL740
N30190AB	KN18530	Gov	N5098FW	KN7030	EL740	N5236 SERIES	KN12180	MODEL 12	N5502H	KN7080	EL740
N30190AD	KN18530	Gov	N5113 SERIES	KN7030	EL740	N5303B	KN7040	EL740	N5504	KN7060	EL740
N30190AE	KN18530	Gov	N5120 SERIES	KN12050	MODEL 12	N5303D	KN7040	EL740	N5504A	KN7080	EL740
N30190AF	KN18530	Gov	N5125 SERIES	KN12030	MODEL 12	N5303F	KN7040	EL740	N5504B	KN7070	EL740
N30190AG	KN18530	Gov	N5137 SERIES	KN12030	MODEL 12	N5303H	KN7040	EL740	N5601B	KN7010	EL740
N30190AJ	KN18530	Gov	N5142 SERIES	KN12030	MODEL 12	N5303M	KN7040	EL740	N5601C	KN7010	EL740
N30190CA	KN18534	Gov	N5212 SERIES	KN12030	MODEL 12	N5303S	KN7040	EL740	N5601D	KN7010	EL740
N30190DA	KN18532	Gov	N5214 SERIES	KN12030	MODEL 12	N5303W	KN7040	EL740	N5601F	KN7010	EL740
N30190DE	KN18532	Gov	N5215 SERIES	KN12030	MODEL 12	N5303X	KN7040	EL740	N5601G	KN7010	EL740
N30190DF	KN18532	Gov	N5217A	KN12030	MODEL 12	N5303C	KN7050	EL740	N5601K	KN7010	EL740
N30190FC	KN18530	Gov	N5217B	KN12030	MODEL 12	N5303E	KN7050	EL740	N5601M	KN7010	EL740
N4060C	KN12200	MODEL 12	N5217D	KN12030	MODEL 12	N5303G	KN7050	EL740	N5601P	KN7010	EL740
N4060D	KN12200	MODEL 12	N5217K	KN12030	MODEL 12	N5303J	KN7050	EL740	N5601V	KN7010	EL740
N4084	KN7030	EL740	N5217L	KN12030	MODEL 12	N5303N	KN7050	EL740	N5601E	KN7020	EL740
N4098A	KN7000	EL740	N5217M	KN12030	MODEL 12	N5303V	KN7050	EL740	N5601J	KN7020	EL740
N4098W	KN7030	EL740	N5217P	KN12030	MODEL 12	N5303AA	KN7050	EL740	N5601L	KN7020	EL740
N4098AW	KN7030	EL740	N5217BB	KN12030	MODEL 12	N5303AB	KN7050	EL740	N5601R	KN7020	EL740
N4098DW	KN7030	EL740	N5217BC	KN12030	MODEL 12	N5308	KN7050	EL740	N5601S	KN7020	EL740
N4098FW	KN7030	EL740	N5217BH	KN12030	MODEL 12	N5308A	KN7040	EL740	N5601W	KN7020	EL740
N4113W	KN7030	EL740	N5217C	KN12040	MODEL 12	N5308B	KN7050	EL740	N5603	KN7010	EL740

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OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
N5603A	KN7020	EL740	N5903R	KN12030	MODEL 12	NT7002 SERIES	EL13020	EL1300	N7205F	EL16050	EL1600
N5603C	KN7020	EL740	N5903S	KN12030	MODEL 12	N7002 SERIES	EL13020	EL1300	NT7205F	EL16050	EL1600
N5603D	KN7020	EL740	N5903T	KN12030	MODEL 12	NT7004 SERIES	EL13040	EL1300	N7205H	EL16050	EL1600
N5603K	KN7010	EL740	N5903V	KN12030	MODEL 12	N7004 SERIES	EL13040	EL1300	N7205J	EL16050	EL1600
N5700B	KN12030	MODEL 12	N5903W	KN12030	MODEL 12	N7005F	EL13070	EL1300	N7205L	EL16071	EL1600
N5700D	KN12030	MODEL 12	N5903Z	KN12030	MODEL 12	N7005R	EL13070	EL1300	N7205M	EL16050	EL1600
N5700F	KN12030	MODEL 12	N5903BA	KN12030	MODEL 12	N7005D	EL13050	EL1300	N7205N	EL16050	EL1600
N5700H	KN12030	MODEL 12	N5903BB	KN12030	MODEL 12	N7005H	EL13050	EL1300	N7205P	EL16051	EL1600
N5700P	KN12030	MODEL 12	N5903BD	KN12030	MODEL 12	N7005L	EL13050	EL1300	N7205Y	EL16051	EL1600
N5700E	KN12040	MODEL 12	N5903BE	KN12030	MODEL 12	NT7005AD	EL13050	EL1300	N7205V	EL16051	EL1600
N5700G	KN12040	MODEL 12	N5903BF	KN12030	MODEL 12	N7005P	EL13050	EL1300	N7206	EL16060	EL1600
N5700J	KN12040	MODEL 12	N5903BG	KN12030	MODEL 12	N7005V	EL13050	EL1300	N7207A	EL16072	EL1600
N5700N	KN12040	MODEL 12	N5903BJ	KN12030	MODEL 12	N7005W	EL13050	EL1300	N7207B	EL16070	EL1600
N5700K	KN12060	MODEL 12	N5903BK	KN12030	MODEL 12	N7005AC	EL13050	EL1300	N7207C	EL16070	EL1600
N5700L	KN12060	MODEL 12	N5903BL	KN12030	MODEL 12	N7005B	EL13050	EL1300	N7208	EL16080	EL1600
N5702B	KN12030	MODEL 12	N5903BM	KN12030	MODEL 12	NT7005AF	EL13051	EL1300	N7209	EL16090	EL1600
N5706A	KN12030	MODEL 12	N5903BN	KN12030	MODEL 12	NT7005AK	EL13053	EL1300	N7210	ELI 6100	EL1600
N5706F	KN12030	MODEL 12	N5903M	KN12040	MODEL 12	N7005AG	EL13051	EL1300	N7210A	EL16100	EL1600
N5706J	KN12030	MODEL 12	N5903Y	KN12040	MODEL 12	N7005AJ	EL13053	EL1300	N7210C	EL16100	EL1600
N5706P	KN12030	MODEL 12	N5903BC	KN12040	MODEL 12	N7006 SERIES	EL13060	EL1300	N7210E	EL16100	EL1600
N5706S	KN12030	MODEL 12	N5903BH	KN12040	MODEL 12	N7008	EL13080	EL1300	NT7210E	ELI 6100	EL1600
N5706V	KN12030	MODEL 12	N5904B	KN12100	MODEL 12	N7009 SERIES	EL13090	EL1300	NT7210F	EL16100	EL1600
N5706W	KN12030	MODEL 12	N5904C	KN12100	MODEL 12	N7010 SERIES	EL13100	EL1300	N7211A	EL16110	EL1600
N5706BA	KN12030	MODEL 12	N5904D	KN12100	MODEL 12	NT7010 SERIES	EL13100	EL1300	N7211B	EL16111	EL1600
N5706E	KN12070	MODEL 12	N5904G	KN12100	MODEL 12	N7011A	EL13110	EL1300	N7211C	EL16111	EL1600
N5706H	KN12070	MODEL 12	N5904H	KN12100	MODEL 12	N7011B	EL13110	EL1300	N7211E	EL16111	EL1600
N5706L	KN12070	MODEL 12	N5904K	KN12100	MODEL 12	N7011 C	EL13111	EL1300	N7212A	EL16120	EL1600
N5706N	KN12070	MODEL 12	N5904N	KN12100	MODEL 12	N7011 D	EL13111	EL1300	NT7215	EL16150	EL1600
N5706R	KN12070	MODEL 12	N5904BA	KN12100	MODEL 12	N7011 E	EL13111	EL1300	NT7216	EL16160	EL1600
N5706T	KN12070	MODEL 12	N5904BC	KN12100	MODEL 12	N7011 F	EL13111	EL1300	N7216	EL16060	EL1600
N5706Y	KN12070	MODEL 12	N5904BD	KN12100	MODEL 12	N7011 H	EL13111	EL1300	N7220	EL16200	EL1600
N5706BD	KN12070	MODEL 12	N5904BE	KN12100	MODEL 12	N7012A	EL13120	EL1300	NT7220	EL16200	EL1600
N5706G	KN12040	MODEL 12	N5904BF	KN12100	MODEL 12	N7012B	EL13120	EL1300	N7225	EL16250	EL1600
N5706K	KN12040	MODEL 12	N5904J	KN12111	MODEL 12	N7015A	EL13151	EL1300	NT7225	EL16270	EL1600
N5706BC	KN12040	MODEL 12	N5904L	KN12111	MODEL 12	NT7015A	EL13151	EL1300	NT7227	EL16270	EL1600
N5706K	KN12060	MODEL 12	N5904M	KN12111	MODEL 12	N7016	ELI 3160	EL1300	NT7231	EL16312	EL1600
N5706M	KN12060	MODEL 12	N5904BB	KN12111	MODEL 12	N7017	EL13170	EL1300	N7311	EL14111	EL3200
N5706X	KN12060	MODEL 12	N5908	KN12040	MODEL 12	NT7019	EL13190	EL1300	N7311A	EL14111	EL3200
N5706BB	KN12060	MODEL 12	N5909A	KN12100	MODEL 12	NT7020	EL13200	EL1300	N7311AA	EL14111	EL3200
N5708A	KN12081	MODEL 12	N5909C	KN12171	MODEL 12	NT7022	EL13220	EL1300	N7311AB	EL14111	EL3200
N5708C	KN12081	MODEL 12	N5909D	KN12171	MODEL 12	NT7022A	EL13220	EL1300	N7502	KN85020	EL850
N5708F	KN12081	MODEL 12	N5909H	KN12171	MODEL 12	NT7027	EL13270	EL1300	N7502A	KN85020	EL850
N5708G	KN12081	MODEL 12	N5909BA	KN12171	MODEL 12	NT7030	EL13300	EL1300	N7502B	KN85020	EL850
N5708BA	KN12081	MODEL 12	N5909J	KN12100	MODEL 12	NT7031B	EL13312	EL1300	N7502C	KN85020	EL850
N5708B	KN12060	MODEL 12	N6000F	KN12020	MODEL 12	N7202A	EL16020	EL1600	N7502D	KN85020	EL850
N5709B	KN12091	MODEL 12	N6000BB	KN12020	MODEL 12	N7202C	EL16020	EL1600			
N5709C	KN12091	MODEL 12	N6000B	KN12010	MODEL 12	N7202D	EL16020	EL1600			
N5902B	KN12100	MODEL 12	N6000E	KN12010	MODEL 12	NT7202D	EL16060	EL1600			
N5902C	KN12100	MODEL 12	N6000G	KN12010	MODEL 12	NT7202F	EL16060	EL1600			
N5902D	KN12100	MODEL 12	N6000H	KN12010	MODEL 12	N7204 SERIES	EL16040	EL1600			
N5902E	KN12100	MODEL 12	N6000K	KN12010	MODEL 12	NT7204	EL16040	EL1600			
N5903B	KN12030	MODEL 12	N6000L	KN12010	MODEL 12	N7204A	EL16040	EL1600			
N5903C	KN12030	MODEL 12	N6000BA	KN12010	MODEL 12	N7204B	EL16040	EL1600			
N5903D	KN12030	MODEL 12	N6000BC	KN12010	MODEL 12	NT7204D	EL16040	EL1600			
N5903F	KN12030	MODEL 12	N6000BD	KN12010	MODEL 12	N7205	EL16050	EL1600			
N5903G	KN12030	MODEL 12	N6000BE	KN12010	MODEL 12	N7205A	EL16071	EL1600			
N5903H	KN12030	MODEL 12	N6300 SERIES	KN7030	EL740	N7205B	EL16071	EL1600			
N5903J	KN12030	MODEL 12	N6400 SERIES	KN7000	EL740	N7205C	EL16050	EL1600			
N5903L	KN12030	MODEL 12	N6402	KN7090	EL740	N7205D	EL16050	EL1600			
N5903P	KN12030	MODEL 12	N6403 SERIES	KN7000	EL740	N7205E	EL16051	EL1600			

Air Compressor Upgrade and Changeover Guide

Upgrading, downgrading or changing a compressor from one brand to another may necessitate repiping air lines.

IMPORTANT! THE ORIGINAL COMPRESSOR AND AIR SYSTEM INSTALLED ON A VEHICLE WAS DESIGNED BY THE VEHICLE MANUFACTURER TO MEET FEDERAL MOTOR VEHICLE SAFETY STANDARDS AS OF THE DATE OF MANUFACTURE. INSTALLATION OF A COMPRESSOR WITH HIGHER OR LOWER AIR FLOW (CUBIC FEET pr-R MINUTE) MAY AFFECT SYSTEM PERFORMANCE.

Bendix and Midland Compressor Changeover Notes- Changeover may require an additional core charge.

KN7000 - KN7010 - KN7020 to Bendix Tu-Flo series (Pulley Drive • Vertical Mount • 4 Hole Base • Air Cooled)

Drive, cooling, mounting, and oil supply locations are ths same.

Inlet and Discharge ports on Midland KN7000 are 3/8" N.P.T. . Bendix Tu-Flo changeovers are non-threaded and require both inlet and discharge adapters.

Midland head can be rotated to alter location of the inlet and discharge ports. Bendix inlet and discharge ports are on the same side. Head cannot be rotated. Proper compressor part number must be selected.

KN7010 and KN7020 air compressors are directly interchangeable with corresponding Bendix Tu-Flo 400 and 500 applica tions. Existing hardware and fittings may be used to make an interchange.

KN7030 to Bendix Tu-Flo series (Pulley Drive • Vertical Mount • 4 Hole Base • Water Cooled Head - Air Cooled Block

Drive, cooling, mounting, and oil supply locations are the same.

Inlet and Discharge ports on Midland KN7030 are 3/8" N.P.T. . Bendix Tu-Flo changeovers are non-threaded and require inlet and discharge ports are on the same side. The head cannot be rotated. The proper compressor part number must be selected.

KN7040 - KN7050 to Bendix Tu-Flo series (Pulley Drive • Vertical Mount • 4 Hole Base • Water Cooled Head - Air Cooled Block)

KN7040 and KN7050 air compressors are directly interchangeable with most Bendix Tu-Flo 400, 500, and 501 applica tions. Existing hardware and fittings may be used to make an interchange.

The exception is on Bendix 227320 and 227322 air compressors that have water cooled heads and blocks. Water should enter the block and exit the head on the opposite end of the compressor.

EL13040 - EL16040 to Bendix Tu-Flo Series (Cummins Double Flange Mount)

The compressors are interchangeable. Note that the throttle linkage and the engine support bracket must be changed in the fuel pump system.

EL13021 - EL13060 - EL16060 to Bendix Tu-Flo Series (Pulley Drive • Vertical Mount • Various Base Mount Applications)

EL13060 air compressors have a flange discharge on the top of the cylinder head. Bendix Tu-Flo compressors of this type have a 1 /2" NPT discharge. Existing fittings can be used with an adapter. Drive, cooling, mounting, and oil supply locations are the same.

On Ford applications with Caterpillar 3208 engines the EL13060, EL16060 and EL13021 will replace the Bendix Tu-Flo series 'no base' compressors by using an adapter plate kit - Midland part number SN3722. The head and block are rotated 180° on the Midland EL13021.

Bendix and Midland Compressor Changeover Notes - Continued

EL13050 - EL13070 to Bendix Tu-Flo series (Detroit Diesel 0° Flange Mount)

The inlet on Midland applications is located on the side of the cylinder head. Bendix Tu-Flo series compressors use the same flange, but it is located in the block. Existing fittings can be used.

Side discharge applications are flange type on both Bendix and Midland applications.

Bendix utilizes a 1/2" NPT top discharge. Midland uses a flange discharge in the same application. Existing fittings may be used by installing a discharge adapter.

Cooling is the same on both Midland and Bendix compressors except in the case of Tu-Flo 501 compressors which have water cooled heads and water and air cooled blocks. Water should enter at the lowest point on one end of the head and exit at the highest point on the opposite end.

Mounting and oil supply configurations are the same.

EL13100 to Bendix Tu-Flo 500 and 501 series (Detroit Diesel 45° and 50° Flange Mount)

Bendix utilizes a 1/2" NPT top discharge. Midland uses a flange discharge in the same application. Existing fittings may be used by installing a discharge adapter.

Inlet, drive, cooling, mounting, and oil supply locations are the same.

EL13111 to Bendix Tu-Flo series (Mack Flange Mount with Power Steering Drive)

Bendix utilizes a 1/2" NPT top discharge. Midland uses a flange discharge in the same application. Existing fittings may be used by installing a discharge adapter. Side discharge is the same on both Bendix and Midland applications.

Midland utilizes 1/2" NPT coolant ports in the head. Tu-Flo 500 applications may have 1/2" or 3/8" coolant ports in the head. The Tu-Flo 501 has 1/2" NPT coolant ports in the head. Coolant should enter at the lowest port on one end of the head and exit at the highest port on the opposite end.

Drive, inlet, mounting, oil supply, and power steering drive applications are the same. The oil supply tube and power steering drive components may be reinstalled if in serviceable condition.

Bendix Compressors installed in Mack in-line applications must be turbocharged.

Remember changeover or upgrade of compressors may necessitate repiping, and in many cases an upgrade core charge may be required.

Notes

Quality Assured Parts

Air Compressor - Changeover & Upgrade Guide

(Note: Changeover may require piping or drive change)

Part No.	Category	EL740	TF500	TF501	TF600	TF700	TF550	TF750
Tu-Flo 400 Changeovers & Upgrades								
101142	4 Hole Base	KN7040				102598		
101143	DDC 0° Tilt						107512	
101144	Self Lubricated							
101242	4 Hole Base	KN7040						
101245	Ford Side							
102952	Ford Side		281146	286556	283662			
226849	4 Hole Base	KN7050						
226949	Self Lubricated							
226981	4 Hole Base	KN7050						
227390	Self Lubricated							
227400	4 Hole Base	KN7040	227320	286526	280602			
227401	4 Hole Base	KN7050/KN7180	227322	286527	280604			
227402	4 Hole Base	KN7040	227320	286526	280602	289350		
227403	4 Hole Base	KN7050	227322	286527	280604	101256/103051		
227404	4 Hole Base		227323	286526	280605	107514		
227406	4 Hole Base	KN7010	228141		280614			
227407	4 Hole Base	KN7010	228346		280619			
227408	6 Hole Base	KN7180	276985	286535				
227409	6 Hole Base	KN7180	227331		280610	102213		
227410	6 Hole Base	KN7180	227332	286535	280611	289924		
227411	Engine Lubricated							
227412	Self Lubricated		228139		280612			
227413	6 Hole Base							
227414	Self Lubricated							
227415	Mack Flange		227326		280608			
227446	Side Mount		275804	286556	283662			
227587	Self Lubricated							
227864	4 Hole Base	KN7050						
228083	Crankcase Base	KN7041						
228138	Mack Flange		227327		280617			
228399	4 Hole Base	KN7040						
228439	4 Hole Base	KN7050						
228451	Crankcase Base	KN7041						
228898	4 Hole Base							
229057	4 Hole Base	KN7050						
229077	Ford Offset		229078		280950			
229154	Crankcase Base							
229532	Self Lubricated		228139		280612			
229726	DDC 0° Tilt	KN7070						
275063	4 Hole Base	KN7050						
275317	4 Hole Base	KN7040						
275409	6 Hole Base							
275973	4 Hole Base	KN7020						
276166	DDC 0° Tilt	KN7070	276961	286538	280525			
276778	DDC 0° Tilt	KN7080						
277799	Mack Flange							
277808	Mack Flange							
276833	Side Mount							
277855	4 Hole Base	KN7050						
277920	4 Hole Base	KN7020						
278416	4 Hole Base	KN7050						
278646	4 Hole Base	KN7000						
278858	4 Hole Base	KN7050						
279024	4 Hole Base	KN7040						
279025	4 Hole Base	KN7050						
279037	Side Mount		281146	286556	283662			
279150	DDC 0° Tilt	KN7080						
279176	4 Hole Base	KN7050						

Air Compressor - Changeover & Upgrade Guide

(Note: Changeover may require piping or drive change)

Part No.	Category	EL740	TF500	TF501	TF600	TF700	TF550	TF750
Tu-Flo 400 Changeovers & Upgrades - Continued								
279260	Crankcase Base							
279282	DDC 0° Tilt	KN7080						
279310	4 Hole Base							
279321	Mack Flange							
279589	4 Hole Base	KN7000						
279696	4 Hole Base	KN7040						
279712	Side Mount							
280727	Mack Flange							
280728	Mack Flange							
280386	Side Mount							
280931	Crankcase Base							
281112	DDC 0° Tilt	KN7080						
281184	Flange Mount							
281195	Flange Mount							
281220	4 Hole Base	KN7010						
281338	Side Mount							
281602	Side Mount							
283046	Side Mount							
283350	Crankcase Base	KN7041	281953					
283426	4 Hole Base	KN7040						
283429	4 Hole Base	KN7050						
283432	4 Hole Base	KN7010						
283435	4 Hole Base	KN7020						
283505	Offset Ford		229078		280624			
283506	Side Mount							
289444	DDC 0° Tilt						107813	
289610	6 Hole Base							
289611	6 Hole Base	KN7180						
289688	4 Hole Base	KN7041		286591			107866	
289823	Crankcase Base	KN7041						

Tu-Flo 500 Changeovers & Upgrades

Part No.	Category	EL1300	EL1600	TF501	TF600	TF700	TF550	TF750
226535	6 Hole Base				280600			
226538	Flange Mount				280601			
227208	6 Hole Base	EL13060	EL16060	286535	280611	289847		
227320	4 Hole Base	EL13060	EL16060	286526	280602		107514	
227320	4 Hole Base				280618		108277	
227321	4 Hole Base	EL13060	EL16060	286529	280603			
227322	4 Hole Base	EL13060	EL16060	286527	280604	101256		
227323	4 Hole Base							
227324	4 Hole Base	EL13060	EL16060		280606			
227325	DDC 0° Tilt	EL13050	EL16050		280604			
227326	Mack Short Case	EL13080		286526	280602			
227327	Mack Short Case							
227331	6 Hole Base	EL13060	EL16060	286578	280610	102213		
227332	6 Hole Base	EL13060	EL16060		280611	289824		
227440	Self Lubricated	R & R Only						
228139	Self Lubricated	R & R Only			280612			
228140	4 Hole Base	EL13060	EL16060	286528	280605	289350	107514	
228140	4 Hole Base						108277	
228141	4 Hole Base				289614			
228228	Self Lubricated	R & R Only			280615			
228268	6 Hole Base				280616			
228269	Crankcase Base	EL13022						
228287	Self Lubricated	R & R Only			280617			
228344	4 Hole Base							
228346	4 Hole Base				280619			
228350	6 Hole Base	EL13060	EL16060					

Quality Assured Parts

Air Compressor - Changeover & Upgrade Guide

(Note: Changeover may require piping or drive change)

Part No.	Category	EL1300	EL1600	TF501	TF600	TF700	TF550	TF750
Tu-Flo 500 Changeovers & Upgrades - Continued								
228351	6 Hole Base	EL13060	EL16060					
228352	Mack Short Case							
228353	4 Hole Base							
228354	4 Hole Base							
228361	Mack Flange							
228362	Mack Flange							
228366	Ford			286565	280620			
228370	4 Hole Base							
228371	Flange Mount				280621			
228435	4 Hole Base	EL13060	EL16060					
228443	Cummins Long Case			286554	280622			
228447	Mack Cat Flange							
228449	Mack/Cat Flange							
228479	4 Hole Base			286530	280286			
228661	Crankcase Base	EL13022				289969		
229059	4 Hole Base							
229078	Ford Offset				280950			
229144	4 Hole Base							
229154	4 Hole Base							
229525	Cummins Long Case				280629			
229544	6 Hole Base	EL13060	EL16060		280611	289847		
229681	Cummins Flange							
229843	4 Hole Base	EL13060	EL16060					
229861	4 Hole Base							
275231	DDC 0° Tilt	EL13050	EL16050		280422	289264		
275271	Cummins Flange							
275514	4 Hole Base	EL13060	EL16060					
275700	6 Hole Base							
275777	DDC 75° Tilt		EL16250		280578			
275990	4 Hole Base			286533	281713			
276476	Cummins Long Case							
276478	4 Hole Base							
276946	DDC 0° Tilt				281963			
276961	DDC 0° Tilt	EL13050	EL16050	286538	280525	289625	107813	
276962	DDC 0° Tilt	EL13050	EL16050	286539	280891	289941	107513	107512
276971	DDC 0° Tilt			286527				
276974	Cummins Long Case				281079			
276978	Cummins Long Case				280392			
277122	Mack Foxhead			286574	280860	289348	108329	107869
277181	6 Hole Base	EL13060	EL16060	286578	280610			
277198	Cummins Long Case				280393			
277577	4 Hole Base							
277694	4 Hole Base	EL13060	EL16060	286528	280540	289865		
277730	Cat Splined Shaft	EL13120		286549				
277731	Cat Splined Shaft	EL13120		286546	282025	103278	107509	107508
277739	Mack Short Case				280522			
277901	Mack Short Case			286572	280779			
278433	Self Lubricated		R & R only					
278443	Crankcase Base							
278445	DDC 75° Tilt				280369	289964		
278452	4 Hole Base	EL13060	EL16060					
278604	Mack Short Case			286572	283821			
278605	Mack Short Case							
278606	Mack/Cat Flange				281471			
278607	Mack Short Case			286572	283821			
278955	4 Hole Base							
279009	DDC 15° Tilt				281007	289344		
279068	DDC 0° Tilt				280281			
279046	4 Hole Base					104189		

Air Compressor - Changeover & Upgrade Guide

(Note: Changeover may require piping or drive change)

Part No.	Category	EL1300	EL1600	TF501	TF600	TF700	TF550	TF750
Tu-Flo 500	Changeovers & Upgrades - Continued							
279069	DDC 0° Tilt			286539	280282			
279072	6 Hole Base	EL13060	EL16060		280283			
279073	4 Hole Base	ELI3060	EL16060					
279074	4 Hole Base	ELI3060	ELI6060					
279252	Side Mount				102734			
279356	4 Hole Base	ELI3060	EL16060					
279384	4 Hole Base			286532	280784			
279483	Mack/Cat Flange							
279556	Mack Short Case				281078			
279580	4 Hole Base	EL13060	EL16060	286560	281990			
279707	Cummins Long Case			286554	280238			
279802	DDC 0° Tilt							
279838	Cummins Long Case				280238			
279839	Cummins Long Case				280428			
279995	Cat Tapered Shaft	EL13170		286550	280556			
280280	6 Hole Base	EL13060	EL16060		280284			
280298	Mack/Cat Flange				281471			
280453	4 Hole Base	EL13060	EL16060					
280458	4 Hole Base							
280501	Mack/Cat Flange							
280565	IHC Flange				281531			
280963	DDC 0° Tilt	EL13050	EL16050	286540	281677			
281021	Mack/Cat Flange				281051			
28-1042	DDC 45° Tilt	ELI 3160		286S42	283480	289342		
281086	6 Hole Base			286535	281533			
281128	DDC 0° Tilt			286541	281532	289789		
281430	4 Hole Base	ELI3060	EL16060	286560	281990			
281530	4 Hole Base			286560	281990			
281593	Crankcase Base	EL13022						
281718	DDC 0° Tilt							
281731	AC & WC Head				284272			
281733	DDC 75° Tilt							
282010	DDC 45° Tilt	EL13160		286541	282011	289940		
282011	DDC 0° Tilt							
282023	Mack/Cat Flange			286551	281157			
282076	4 Hole Base	EL13060	EL16060		280515			
282586	Mack Ext Flange							
282586	Mack Ext Flange				283825			
282620	Mack Ext Flange				282801			
282621	Mack Ext Flange							
282621	Mack Ext Flange				283825			
282749	DDC 0° Tilt							
282904	AC & WC Head							
282928	DDC 0° Tilt	EL13050	EL16050	286579	284121	101282		
283026	DDC 45° Tilt							
283339	DDC 0° Tilt	ELI 3050	EL16050		283562			
283438	4 Hole Base	EL13060	ELI6060					
283441	4 Hole Base	ELI3060	ELI6060					
283453	6 Hole Base							
283456	Cummin Dbl Flange	ELI3040	EL16040					
283495	DDC 0° Tilt	ELI 3050	EL16050					
283513	Ford Offset							
283514	Ford			286565				
283515	DDC 0° Tilt	EL13150		286539	284410	289212		
283577	Mack Foxhead							
283585	Ford				282853			
283644	6 Hole Base	EL13060	EL16060	286536				
283664	6 Hole Base							
283692	Mack Foxhead							

Quality Assured Parts

Air Compressor - Changeover & Upgrade Guide

(Note: Changeover may require piping or drive change)

Part No.	Category	EL1300	EL1600	TF501	TF600	TF700	TF550	TF750
Tu-Flo 500 Changeovers & Upgrades - Continued								
283711	Cummins Long Case	286570		101590				
283813	Mack Ext Flange							
283967	DDC 0° Tilt							
283996	Mack/CatFlange	286547						
284003	Mack/Cat Flange	286548						
284010	Mack Short Case							
284037	Flange Mount		283989					
284106	DDC 45° Tilt	EL13160	286542	285158				
284068	Cat Flange							
284160	Cummins Long Case							
284260	CatTapered Shaft			286552		289744		
284262	DDC 45° Tilt	EL13160						
284402	Cummins Dbl Flange	EL13040	EL16040					
284662	Mack Ext Flange			286544		289340	107511	107510
284699	Cummins Std Case	EL13040	EL16040	286554	284714	289339	107506	107507
284711	Mack Short Case			286571				
284718	Cummins Std Case	EL13040	EL16040	286555	284720	289301		
284790	Cat Flange			286584		289336		
284934	DDC 45° Tilt							
284959	Cummins Std Case	EL13040						
284988	Flange Mount							
285131	Cat Splined Shaft	EL13120		286546	282025	289349		
285157	6 Hole Base							
285252	DDC 45° Tilt	EL13160		286543		101158		
285275	Mack Ext Flange							
285601	Side Mount			286557				
285813	AC & WC Head							
285827	Mack Ext Flange							
285898	DDC 52° Tilt	EL13100				101554		
286390	4 Hole Base							
288734	Cat Flange							
288890	Crankcase Base	EL13022						

Tu-Flo 501 Changeovers 8 Upgrades

Part No.	Category	EL1300	EL1600	TF500	TF600	TF700	TF550	TF750
102734	Ford			279252	280446			
102697	Mack Ext Flange	EL13111	EL16111				289340	
102698	4 Hole Base	EL13060	EL16060	279046		104189		
102742	Cat Flange							
102785	Volvo/White					102089		
102953	Mack Foxhead	EL13260						
102989	6 Hole Base	EL13020	EL16020					
103274	Cat Tapered Shaft	EL13200		277731		103278	107509	107508
107296	Cat Flange						107981	
280551	Cat Tapered Shaft							
286526	4 Hole Base	EL13060	EL16060	227320	280613	289350	107514	
286527	4 Hole Base	EL13060	EL16060	227322	280603	101256		
286528	4 Hole Base	EL13060	EL16060	228140	280540	289350	107514	
286529	4 Hole Base	EL13060	EL16060	227321	280551	101256		
286530	4 Hole Base			228479	281751			
286532	4 Hole Base			279384	280784			
286533	4 Hole Base			275990	281713			
286535	6 Hole Base	EL13060	EL16060	227332	280611	289924		
286536	6 Hole Base	EL13060	EL16060	283644				
286537	6 Hole Base	EL13060	EL16060					
286538	DDC 0° Tilt	EL13050	EL16050	276961	284804	102835		107813
286539	DDC 0° Tilt	EL13050	EL16050	276962	280570	102151	107513	107512
286540	DDC 0° Tilt	EL13050	EL16050	280963	281677	289925		
286541	DDC 0° Tilt	EL13050	EL16050	282010	282011	286541		

Air Compressor - Changeover & Upgrade Guide

(Note: Changeover may require piping or drive change)

Part No.	Category	EL1300	EL1600	TF500	TF600	TF700	TF550	TF750
Tu-Flo 501	Changeovers & Upgrades - Continued							
286542	DDC 45° Tilt	EL13160	EL16160	281042	282013	289342		
286543	DDC 45° Tilt	EL13160	EL16160	285252	289793	101158		
286544	Mack Ext Flange	EL13111	EL16111	284662	285108	289340	107511	107510
286546	Cat Splined Shaft	EL13120	EL16120	285131	288710	289349		
286548	Cat Splined Shaft	EL13170		284003				
286549	Cat Splined Shaft	EL13120	EL16120	277730				
286550	Cat Tapered Shaft	EL13080	EL16080	279995	284022			
286552	Cat Tapered Shaft	EL13170		284260	289172	289744		
286554	Cummins Std Case	EL13040	EL16040	284699	284714	289339	107506	107507
286555	Cummins Std Case	EL13040	EL16040	284718	284720	289339		
286556	Ford							
286557	Ford			285601				
286558	Ford Offset							
286560	4 Hole Base	EL13020	EL16020					
286561	Ford Offset							
286562	Ford Offset							
286563	Volvo/White			280737	287828	289347		
286564	Ford							
286565	Ford			228366	283662			
286566	Cat Tapered Shaft	EL13170						
286567	No Base							
286570	Cummins Flange			283711		101590		
286571	Mack Short Case			284711	286871			
286572	Mack Short Case				288714	102290		
286574	Mack Foxhead	EL13260	EL16260	277122	280628	289348	108329	107869
286576	6 Hole Base	EL13060	EL16060					
286578	6 Hole Base	EL13060	EL16060	227331	280610	102213		
286579	DDC 0° Tilt	EL13050	EL16050	282928	284121	101282		
286580	No Base	EL13021						
286581	DDC 0° Tilt	EL13050	EL16050					
286582	4 Hole Base	EL13060	EL16060				108066	
286584	Cat Splined Shaft	EL13151		284790		289336		
286585	6 Hole Base	EL13060	EL16060			102598		
286586	4 Hole Base	EL13060	EL16060					
286589	4 Hole Base					103051		
286591	4 Hole Base	EL13022					107866	
286592	No Base							
286593	Cat Tapered Shaft							
286595	4 Hole Base	EL13022		107866				
286596	Cat Extended Flange		101884					
286617	4 Hole Base			108110				
286623	DDC 0° Tilt-60 Series		106780	107513				

Tu-Flo 600 Changeovers & Upgrades

Part No.	Category	EL1300	EL1600	TF500	TF501	TF700	TF550	TF750
280238	Cummins Dbl Flange	EL13040	EL16040	279707				
280369	DDC 75° Tilt			278445				
280392	Cummins Dbl Flange	EL13040	EL16040	276978				
280393	Cummins Dbl Flange	EL13040	EL16040	277198				
280422	DDC 75° Tilt			275231		289790		
280428	Cummins Dbl Flange	EL13040	EL16040	279838				
280429	Cummins Dbl Flange	EL13040	EL16040	279839				
280446	Side Mount			279252				
280447	Cummins Dbl Flange			229895				
280520	Mack Flange			277739				
280526	DDC 0° Tilt	EL13050	EL16050	227329				
280540	4 Hole Base	EL13060	EL16060	277694		289350	107514	
280540	4 Hole Base						108277	
280551	4 Hole Base	EL13060	EL16060	277694				

Quality Assured Parts

Air Compressor - Changeover & Upgrade Guide

(Note: Changeover may require piping or drive change)

Part No.	Category	EL1300	EL1600	TF500	TF501	TF700	TF550	TF750
Tu-Flo 600 Changeovers - Continued								
280556	Cat Tapered Shaft	EL13080	EL16080	279995				
280570	DDC 0° Tilt	EL13050	EL16050	276962	286539	289941	107513	107512
280600	6 Hole Base	EL13060	EL16060	226535				
280602	4 Hole Base	EL13060	EL16060	227320	286526			
280603	4 Hole Base	EL13060	EL16060	227321	286529			
280604	4 Hole Base	EL13060	EL16060	227322	286527			
280606	4 Hole Base			227324				
280607	DDC 0° Tilt	EL13050	EL16050	227325				
280608	Mack Short Case			227326				
280609	DDC 0° Tilt	EL13050	EL16050	276961	286538	289925		107813
280610	6 Hole Base	EL13060	EL16060	227321				
280611	6 Hole Base	EL13060	EL16060	227332	286535			
280612	Crankcase Base - Self Lube		228139					
280613	4 Hole Base	EL13060	EL16060	228140	288528		107514	
280622	Cummins Long Case			276951				
280623	6 Hole Base	EL13060	EL16060	227332	286535			
280624	Offset Mount			229078				
280626	Cummins Long Case							
280628	Mack Foxhead			277122	286574	289348	108329	107869
280629	Cummins Dbl Flange	EL13040	EL16040	228835				
280630	4 Hole Base Mount			227322	286527			
280631	4 Hole Base	EL13060	EL16060					
280713	4 Hole Base			275990	286531			
280767	DDC 0° Tilt	EL13050	EL16050					
280774	Cat Tapered Shaft			277738				
280784	4 Hole Base			279384				
280798	DDC 75° Tilt			278681				
281007	DDC 0° Tilt			279009				
281008	DDC 15° Tilt							
281051	Mack Flange			281021				
281157	Cat Tapered Shaft	EL13120	EL16120	282023				
281341	DDC 0° Tilt							
281531	IHC Flange			280565				
281532	DDC 0° Tilt			281128	286541	289789		
281533	6 Hole Base			281086				
281677	DDC 0° Tilt	EL13050	EL16050	280963		289925		
281751	4 Hole Base			228479				
281963	DDC 0° Tilt			276946				
282011	DDC 0° Tilt	EL13050	EL16050	282010	286541	289941		
282013	DDC 45° Tilt	EL13160	EL16160	280989		289342		
282025	Cat Splined Shaft	EL13120	EL16120	278811				
282274	4 Hole Base	EL13060	EL16060					
282435	DDC 75° Tilt							
282452	4 Hole Base	EL13060	EL16060					
282521	Mack Ext Flange			275434				
282788	DDC 75° Tilt							
282853	Side Mount			277128	286556			
283562	DDC 0° Tilt	EL13050	EL16050	283334				
283662	Side Mount			271128	286556			
283808	DDC 0° Tilt							
283989	IHC Flange			282938				
283994	Cummins Dbl Flange	EL13040	EL16040	283992				
284121	DDC 0° Tilt	EL13050	EL16050	282928	286579	101282		
284259	Cummins Dbl Flange	EL13040	EL16040	284160				
284307	Mack Ext Flange							
284411	DDC 0° Tilt	EL13050	EL16050	283515				
284714	Cummins Std Case	EL13040	EL16040	284699	286554	289339	107506	107507
284720	Cummins Std Case	EL13040	EL16040	284717		289339		
284804	DDC 0° Tilt	EL13050	EL16050	283950				

Air Compressor - Changeover & Upgrade Guide

(Note: Changeover may require piping or drive change)

Part No.	Cateqory _	EL1300	EL1600	TF500	TF501	TF700	TF550	TF750
Bendix Tu-Flo 600 - Changeovers Continued								
285108	Mack Ext Flange			284662	286544	289340	107511	107510
285158	DDC 45° Tilt	EL13160	EL16160	284106				
286471	DDC 0° Tilt	EL16050	EL16050			289342		
286836	4 Hole Base	EL13060	EL16060			289969		
286866	Mack Flan~e			283789				
286870	Mack Flange			284710				
286888	DDC 0° Tilt			284934				
287037	DDC 0° Tilt							
287105	DDC 15° Tilt					289344		
287828	Mack Flange					289347		
287887	DDC 0° Tilt	EL13050	EL16050					
288481	Mack Flange	EL13080	EL16080	284310	286551			
288710	Mack Flange	EL13080	EL16080			289349		
288714	Mack Flange							
288715	Mack Flange							
289172	Mack Flange			289744				
289793	DDC 45° Tilt	EL13160	EL16160					

Tu-Flo 700 Changeovers & Upgrades

Part No.	Category	EL1300	EL1600	TF500	TF501	TF600	TF550	TF750
101158	DDC 45° Tilt			285252	286543			
101256	4 Hole Base	EL13060	EL16060	227322	286527	280604		
101282	DDC 0° Tilt	EL13050	EL16050	282928	286579	284121		
101554	DDC 52° Tilt			285898				
101589	Cummins Flange							
101590	Cummins Flange			283711	286570			
101636	DDC 51 ° Tilt							
101884	Cat Extended Flanae				286596			
102089	Volvo Flange							
102137	DDC 15° Tilt					281008		
102151	DDC 0° Tilt			276962	286539	280891		
102213	6 Hole Base			227331	286578	280610		
102290	Volvo Flange				286572	288714		
102598	6 Hole Base				286585			
102835	DDC 0° Tilt			276961	286538	280609		
103051	4 Hole Base			227322	286527	280604		
103278	Cat Tapered ShaM				103274		107509	107508
104189	4 Hole Base			279046	102698			
106268	DDC 0° Tilt-60 Series							
106780	DDC 0° Tilt-60 Series						107513	107512
106791	DDC 0° Tilt							
106792	DDC 0° Tilt							
106793	DDC 75° Tilt							
289336	Cat Flange			284790	286594			
289339	Cummins Std Case	EL13040	EL16040	284699	286554	284714	107506	107507
289340	Mack Ext Flanqe	EL13111	EL16111	284662	286544	285108	107511	107510
289342	DDC 45° Tilt			281042	286542	282013		
289344	DDC 15° Tilt			279009		287105		
289347	Volvo Flange			280737	286563	287828		
289348	Mack Foxhead	EL13260	EL16260	277122	286574	280628	108329	107869
289349	Cat Splined Shaft	EL13120	EL16120	285131	286546	288710		
289350	4 Hole Base	EL13060	EL16060	228140	286526	280613	107514	
289744	Cat Splined Shaft			284260	286552	289172		
289789	DDC 0° Tilt	EL13050	EL16050	281128	286541	284411		
289790	DDC 75° Tilt	EL13250	EL16250	275231		280369		
289915	DDC 75° Tilt			278445		280369		
289924	6 Hole Base	EL13060	EL16060	227332	286535	280611		
289925	DDC 0° Tilt	EL13050	EL16050	276961	286538	280609		107813

Quality Assured Parts

Air Compressor - Changeover & Upgrade Guide

(Note: Changeover may require piping or drive change)

Part No.	Category	EL1300	EL1600	TF500	TF501	TF600	TF550	TF750
Tu-Flo 700 Upgrades & Changeovers - Continued								
289941	DDC 0° Tilt	EL13050	EL16050	276962	286539	280891	107513	107512
289964	DDC 75° Tilt			278445		280369		
289969	4 Hole Base	EL13060	EL16060	228661		286836		

Midland Changeovers & Upgrades

EL740 Series Compressors

Part No.	Category	TF400	TF500	TF501	TF700
KN7000	4 Hole Base (LL)	227406	228344		
KN7000	4 Hole Base (RR)	227407	228346		
KN7010	4 Hole Base (LL)	289496	228344		
KN7020	4 Hole Base	289513			
KN7030	4 Hole Base (LL)	283426	279074	286526	289350
KN7030	4 Hole Base (RR)	283429	279073		
KN7040	4 Hole Base	283426	279580	286526	289350
KN7050	4 Hole Base	283429	279073	286527	101256
KN7070	DDC 0° Tilt	289444	276961	286538	289925
KN7080	DDC 0° Tilt	289508	276962	286539	289941
KN7170	4 Hole Base	227404	227331	286526	289350
KN7180	4 Hole Base	227403	227322	286527	101256

EL1300 Series Compressors

Part No.	Category	EL1600	TF500	TF501	TF600	TF700	TF550	TF750
EL13040	Cummins Std Case	EL16040	284718	286555		289339	107506	107507
EL13050	DDC 0° Tilt (LT)	EL16050	280963	286540				
EL13050	DDC 0° Tilt (RT)	EL16050	282928	286541				
EL13060	4 Hole Base		283690		280238			
EL13070	DDC 1° Tilt (LT)	EL16070	280963	286540				
EL13070	DnC 1° Tilt (RT)	EL16070	282928	286541				
EL13090	DDC 45° Tilt	EL16090	281942	286542				
EL13100	DDC 45° Tilt (LT)	EL16100	281042	286542		289342		
EL13100	DDC 45° Tilt (RT)	EL16100	282525	286543				
EL13111	Mack Ext Flange	EL16111	284662	286544	285108	289340	107511	107510
EL13120	Cat Splined Shaft	EL16120	285131	286546		289349		
EL13150	Cat Splined Shaft		284790	286584		289336		

EL1600 Series Compressors

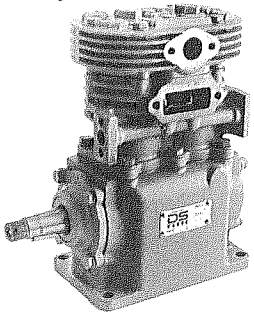
Part No.	Category	EL1300	TF500	TF501	TF600	TF700	TF550	TF750
EL16020	4 Hole Base	EL13020						
EL16040	CumminsStdCase	EL13040	284718	286555	280238	289339	107506	107510
EL16050	DDA 0° Tilt (LT)	EL13050	280963	286540				
EL16050	DDA 0° Tilt (RT)	EL13050	282928	286541				
EL16070	DDA 1° Tilt (LT)	EL13070	280963	286540	280606			
EL16070	DDA 1 ° Tilt (RT)	EL13070	282928	286541				
EL16090	DDA 45° Tilt	EL13090	281942	286542				
EL16100	DDA 45° Tilt (LT)	EL13100	281042	286542		289342		
EL16100	DDA 45° Tilt (RT)	EL13100	282525	286543				
EL16111	Mack Ext Flange	EL13111	284662	286544	285108	289340	107511	107510

A Word About Compressor Cores

Please Note: When upgrading from one type of compressor to another, or changing from one brand to another there may be a changeover or upgrade charge on the core. This is particularly true when upgrading from an older compressor style to a newer (i.e. Tu-Flo 500 to Tu-Flo 501 or 700). Please call DS Parts Technical Service for advice when in doubt.

Important: The value of an exchange core should be determined at the point of sale and any additional charges made then. Please verify that the type of core being submitted is the same as that being sold and inspect the old compressor for damaged or missing parts.

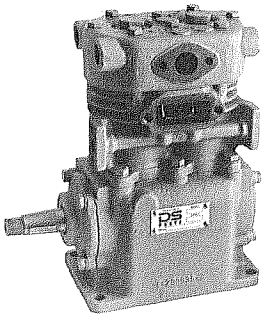
Bendix Tu-Flo 400
4 Hole Base • Vertical Mount
Pulley Drive • Air Cooled



227407
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
227406	Left	Left	Flange
227407	Right	Right	Flange

Bendix Tu-Flo 400
4 Hole Base • Vertical Mount
Pulley Drive • Water Cooled Head • Air Cooled Block



275317
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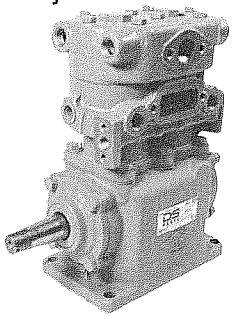
Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
275317	Left	Left	Flange
278416	Right	Right	Flange
279024	Left	Left	Flange
279025	Right	Right	Flange
279176 (1)	Right	Top	Threaded
283426 (2)	Left	Left	Flange
283429 (2)	Right	Right	Flange

(1) 4 studs in front end cover (2) Base oil option

Bendix Tu-Flo 400
4 Hole Base • Vertical Mount
Pulley Drive • Water Cooled



227400
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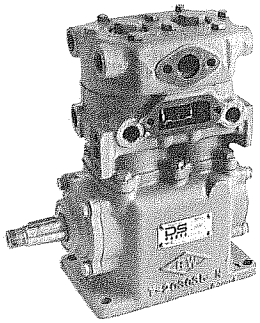
Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
101242 (1)	Left	Left	Flange
227400 (2)	Left	Left	Flange
227401 (2)	Right	Right	Flange
227402 (2)	Left	Left	Flange
227403 (2)	Right	Right	Flange

(1) Rear oil inlet (2) Base oil inlet

Bendix Tu-Flo 400
4 Hole Base • Vertical Mount
Pulley Drive • Water Cooled • Bottom Cover Plate



101142
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Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
101142	Left	Left	Flange
289688 (1)	Left	Left	Flange

(1) Has base adapter

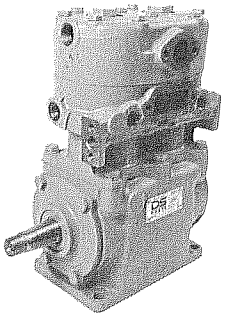
•The case has six (6) 1/4" holes for mounting the bottom cover.

Unloader & Gasket Kits listed by Compressor Part Number:

Note: DS Parts Compressors are packaged with mounting gaskets and plugs. **Silicone and other types of gasket sealants should not be used when installing air compressors. Damage to the compressor could result.**

Compressor Number	Unloader Kit	Gasket Kit
101142	DS279614	DSG4B
101242	DS279614	DSG4A
227400	DS279614	DSG4A
227401	DS279614	DSG4A
227402	DS279614	DSG4A
227403	DS279614	DSG4A
227406	DS279614	DSG4A
227407	DS279614	DSG4A
275317	DS279614	DSG4A
278416	DS279614	DSG4A
279024	DS279614	DSG4A
279025	DS279614	DSG4A
279176	DS279614	DSG4A
283426	DS279614	DSG4A
283429	DS279614	DSG4A
289688	DS279614	DSG4B

Bendix Tu-Flo 500 • 600 • 700
4 Hole Base • Vertical Mount
Pulley Drive • Water Cooled

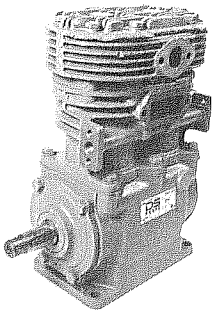


227320
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 500			
227320 (1)	Left	Left	Flange
227321	Right	Right	Flange
227322 (1)	Right	Right	Flange
227323	Left	Left	Flange
277694	Left	Top	Threaded
279356 (1)	Left	Left	Flange
280453 (1)	Right	Top	Threaded
Tu-Flo 500 Continued			
282076	Right	Top	Threaded
283690 (1)	Left	Top	Threaded
Tu-Flo 600			
280602 (1)	Left	Left	Flange
280603	Right	Right	Flange
280604 (1)	Right	Right	Flange
280613	Left	Left	Flange
Tu-Flo 700			
101256	Right	Right & Top	Optional
289350	Left	Left & Top	Optional

(1) Base oil option

Bendix Tu-Flo 500
4 Hole Base • Vertical Mount
Pulley Drive • Air Cooled



228141
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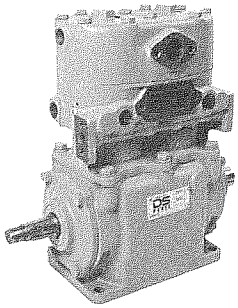
Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
228141	Left	Left	Flange
228346	Right	Right	Flange

Bendix Tu-Flo 500
4 Hole Base • Vertical Mount
Pulley Drive • Thru Drive • Water Cooled



228479
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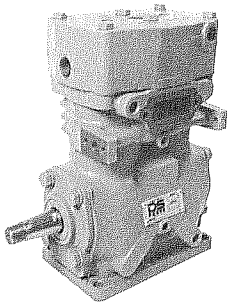
Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
228479 (1)	Left	Left	Flange
275990 (1)	Right	Right	Flange

(1) Base oil option

Unloader & Gasket Kits listed by Compressor Part Number:

Compressor Number	Unloader Kit	Gasket Kit
101256	DS279615	DSG4A
227320	DS279615	DSG4A
227321	DS279615	DSG4A
227322	DS279615	DSG4A
227323	DS279615	DSG4A
228141	DS279615	DSG4A
228346	DS279615	DSG4A
228479	DS279615	DSG4A
275990	DS279615	DSG4A
277694	DS279615	DSG4A
279356	DS279615	DSG4A
280453	DS279615	DSG4A
282076	DS279615	DSG4A
283690	DS279615	DSG4A
280602	DS279615	DSG4A
280603	DS279615	DSG4A
280604	DS279615	DSG4A
280613	DS279615	DSG4A
289350	DS279615	DSG4A

Bendix Tu-Flo 501
4 Hole Base • Vertical Mount
Pulley Drive • Water and Air Cooled



286528
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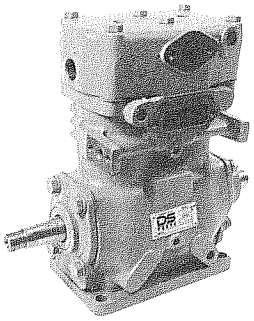
Base Style A Base Style B

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
No Base			
286567	Right	Top	Threaded
286580	Left	Left	Flange
286592	Right	Right	Flange
Base Style A			
102698 (1)	Left	Left	Flange
286526	Left	Left	Flange
286527	Right	Right	Flange
286528	Left	Top	Threaded
286529	Right	Top	Threaded
286560 (2)	Left	Top	Threaded
286582 (1)	Left	Top	Threaded
286586	Left	Left	Flange
286589	Right	Right	Flange
Base Style B			
286591	Right	Right	Flange
286595	Right	Top	Threaded

(1) Three front cover studs (2) Four front cover studs

Bendix Tu-Flo 501
4 Hole Base • Vertical Mount
Pulley Drive • Thru Drive • Water and Air Cooled



286530
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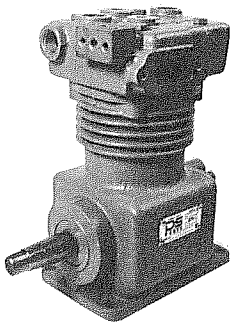
Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
286530	Left	Left	Flange
286532	Left	Top	Threaded
286533	Right	Right	Flange

Bendix BX2150
4 Hole Base • Vertical Mount
Pulley Drive • Water Cooled Head • Air Cooled Block



104041
Shown

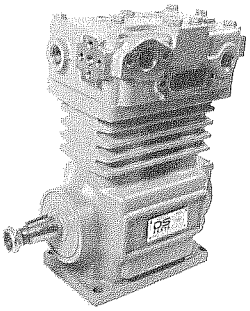
Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
103211 (2)	Optional (1)	Optional	Threaded
104039	Optional (1)	Optional	Threaded
104041 (3)	Optional (1)	Optional	Threaded

(1) The cylinder head can be installed in any one of four different positions 90° apart.
(2) Bottom oil drain base
(3) Low profile case

Unloader & Gasket Kits listed by Compressor Part Number:

Compressor Number	Unloader Kit	Gasket Kit
102698	DS279615	DSG4A
103211	DS104012	DSG4D
104039	DS104012	DSG4C
104041	DS104012	DSG4C
286526	DS279615	DSG4A
286527	DS279615	DSG4A
286528	DS279615	DSG4A
286529	DS279615	DSG4A
286530	DS279615	DSG4A
286532	DS279615	DSG4A
286533	DS279615	DSG4A
286560	DS279615	DSG4A
286567	DS279615	DSG4A
286580	DS279615	DSG4A
286582	DS279615	DSG4A
286586	DS279615	DSG4A
286589	DS279615	DSG4A
286591	DS279615	DSG4A
286592	DS279615	DSG4A
286595	DS279615	DSG4A

Bendix Tu-Flo 550
4 Hole Base • Vertical Mount
Pulley Drive • Water Cooled Head • Air Cooled Block

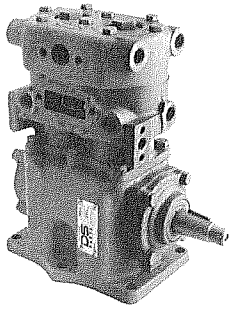


107514
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 550			
107514	Left	Top	Threaded
107866 (1)	Right	Top	Threaded
108066 (2)	Left	Top	Threaded
108110 (3)	Left	Top	Threaded
108277	Left	Top	Threaded

(1) Crankcase base for Ford (2) 3 front end cover studs
(3) 2 mounting studs

Bendix Tu-Flo 400
6 Hole Base • Vertical Mount
Pulley Drive • Water Cooled

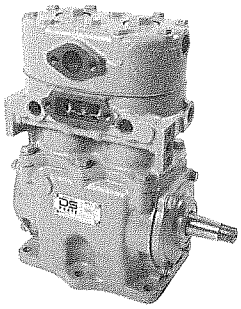


227408
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
227408 (1)	Right	Right	Flange
227409 (1)	Left	Left	Flange
227410 (1)	Right	Right	Flange

(1) Base oil option

Bendix Tu-Flo 500 • 600
6 Hole Base • Vertical Mount
Pulley Drive • Water Cooled

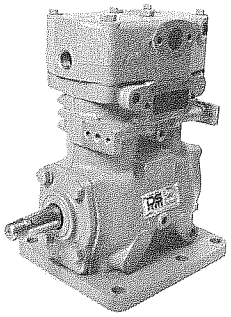


227332
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 500			
227331 (1)	Left	Left	Flange
227332 (1)	Right	Right	Flange
Tu-Flo 600			
280610 (1)	Left	Left	Flange
280611 (1)	Right	Right	Flange

(1) Base oil option

Bendix Tu-Flo 501
6 Hole Base • Vertical Mount
Pulley Drive • Water and Air Cooled



286585
Shown

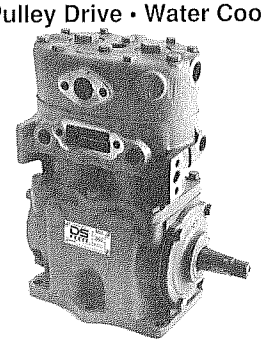
Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
102989 (1)	Right	Top	Threaded
286535	Right	Right	Flange
286536	Right	Top	Threaded
286537	Left	Top	Threaded
286576	Right	Right	Flange
286578	Left	Left	Flange
286585 (1)	Left	Left	Flange

(1) Special crankcase base for Ford

Unloader & Gasket Kits listed by Compressor Part Number:

Compressor Number	Unloader Kit	Gasket Kit
107514	---	DSG4B
107866	---	DSG4B
108066	---	DSG4A
108110	---	DSG4A
108277	---	DSG4A
102989	DS279615	DSG6B
227408	DS279614	DSG6A
227409	DS279614	DSG6A
227410	DS279614	DSG6A
227331	DS279615	DSG6A
227332	DS279615	DSG6A
280610	DS279615	DSG6A
280611	DS279615	DSG6A
286535	DS279615	DSG6A
286536	DS279615	DSG6A
286537	DS279615	DSG6A
286576	DS279615	DSG6A
286578	DS279615	DSG6A
286585	DS279615	DSG6B

Bendix Tu-Flo 700
6 Hole Base • Vertical Mount
Pulley Drive • Water Cooled

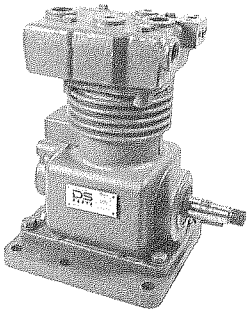


289924
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
102213 (1)	Left	Left	Optional
102598 (2)	Left	Left	Optional
289924 (1)	Right	Right & Top	Optional

(1) Base oil option (2) Special crankcase base for Ford

Bendix BX2150
6 Hole Base • Vertical Mount
Pulley Drive • Water Cooled Head • Air Cooled Block



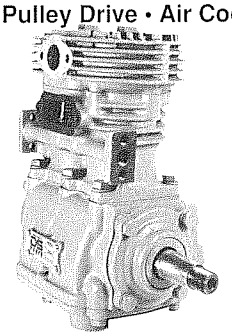
103212
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
103212	Optional(1)	Optional	Threaded

(1) The cylinder head can be installed in any one of four different positions 90° apart.

Wide base for Ford applications

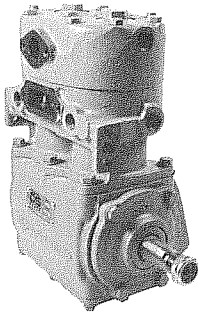
Bendix Tu-Flo 400
Side Mount
Pulley Drive • Air Cooled



102952
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
101245	Left	Left	Flange
102952	Right	Right	Flange
283506	Left	Left	Flange

Bendix Tu-Flo 500
Side Mount
Pulley Drive • Water Cooled



228366
Shown

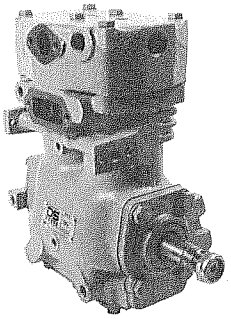
Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
228366	Right	Right	Flange
283514	Left	Left	Flange
283585	Right	Right	Flange

Unloader & Gasket Kits listed by Compressor Part Number:

Note: DS Parts Compressors are packaged with mounting gaskets and plugs. **Silicone and other types of gasket sealants should not be used when installing air compressors. Damage to the compressor could result.**

Compressor Number	Unloader Kit	Gasket Kit
101245	DS279614	DSG5A
102213	DS279615	DSG6A
102598	DS279615	DSG6A
102952	DS279614	DSG6A
103212	DS104012	DSG4D
228366	DS279615	DSG5A
283506	DS279614	DSG5A
283514	DS279615	DSG5A
283585	DS279615	DSG5A
289924	DS279615	DSG6A

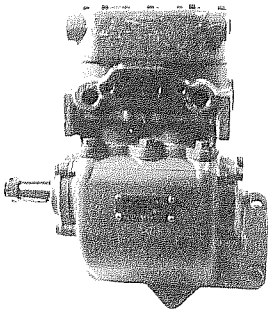
Bendix Tu-Flo 501
Side Mount • Ford
Pulley Drive • Water and Air Cooled



286556
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
102734	Left	Left	Flange
286556	Right	Right	Flange
286557	Right	Top	Threaded
286564	Left	Left	Flange
286565	Right	Right	Flange

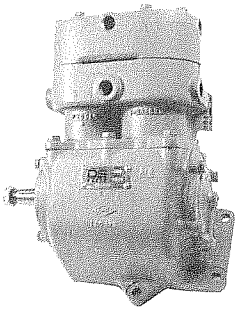
Bendix Tu-Flo 400
Offset Mount • Ford (slant)
Pulley Drive • Water Cooled



229077
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
229077	Left	Top	Threaded
283505	Right	Top	Threaded

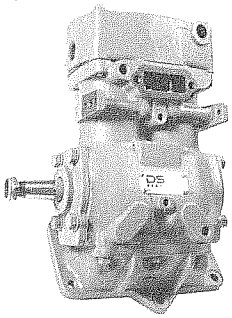
Bendix Tu-Flo 500
Offset Mount • Ford (slant)
Pulley Drive • Water Cooled



283513
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
229078	Left	Top	Threaded
283513	Right	Top	Threaded

Bendix Tu-Flo 501
Offset Mount • Ford (slant)
Pulley Drive • Water and Air Cooled



286562
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
286558 [1]	Right	Top	Threaded
286561 [1]	Left	Top	Threaded
286562 [1]	Left	Top	Threaded

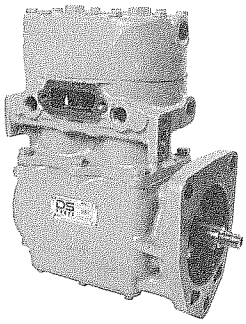
[1] Base oil option

Unloader & Gasket Kits listed by Compressor Part Number:

Note: DS Parts Compressors are packaged with mounting gaskets and plugs. **Silicone and other types of gasket sealants should not be used when installing air compressors. Damage to the compressor could result.**

Compressor Number	Unloader Kit	Gasket Kit
102734	DS279615	DSG5A
229077	DS279614	DSG5B
229078	DS279615	DSG5B
283505	DS279614	DSG5B
283513	DS279615	DSG5B
286556	DS279615	DSG5A
286557	DS279615	DSG5A
286558	DS279615	DSG5B
286561	DS279615	DSG5B
286562	DS279615	DSG5B
286564	DS279615	DSG5A
286565	DS279615	DSG5A

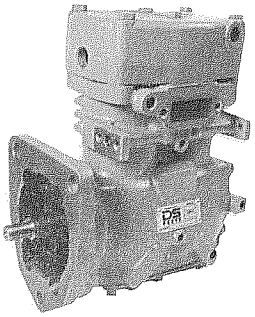
Bendix Tu-Flo 500 • 600
Caterpillar • Tapered Shaft
Flange Mount • Water Cooled



284310
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 500			
279995	Left	Left	Flange
284260	Right	Top	Flange
284310	Right	Top	Flange
Tu-Flo 600			
280556	Left	Left	Flange
280774	Left	Left	Flange
281157	Right	Top	Threaded

Bendix Tu-Flo 501
Caterpillar • Tapered Shaft
Flange Mount • Water and Air Cooled

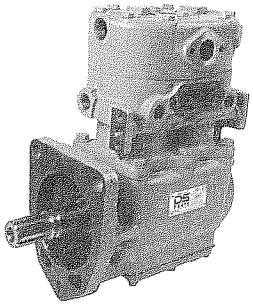


286552
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
103274 (1)	Left	Top	Threaded
286550	Left	Left	Flange
286551	Right	Top	Threaded
286552	Left	Top	Threaded
286566	Right	Top	Threaded
286593	Right	Top	Threaded

(1) Has 2°- 30° tilt & threaded mounting hole

Bendix Tu-Flo 500 • 600 • 700
Caterpillar • Splined Shaft
Flange Mount • Water Cooled

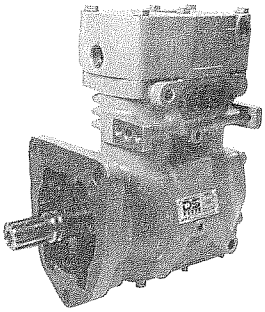


289349
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 500			
277730	Right	Right	Flange
277731	Left	Left	Flange
Tu-Flo 600			
282025	Left	Left	Flange
Tu-Flo 700			
289349 (1)	Left	Left & Top	Optional

(1) Has crankcase cover with 1/2" PT oil drain

Bendix Tu-Flo 501
Caterpillar • Splined Shaft
Flange Mount • Water and Air Cooled



286546
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
286546	Left	Top	Threaded
286548	Left	Left	Flange
286549	Right	Right	Flange

- Rear oil inlet
- Base oil drain

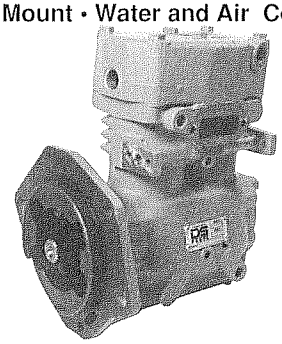
Unloader & Gasket Kits listed by Compressor Part Number:

Note: DS Parts Compressors are packaged with mounting gaskets and plugs. **Silicone and other types of gasket sealants should not be used when installing air compressors. Damage to the compressor could result.**

Compressor Number	Unloader Kit	Gasket Kit	Compressor Number	Unloader Kit	Gasket Kit
103274	DS279615	DSG7A	284310	DS279615	DSG7A
277730	DS279615	DSG7A	286546	DS279615	DSG7A
277731	DS279615	DSG7A	286548	DS279615	DSG7A
279995	DS279615	DSG7A	286549	DS279615	DSG7A
280556	DS279615	DSG7A	286550	DS279615	DSG7A
280774	DS279615	DSG7A	286551	DS279615	DSG7A
281157	DS279615	DSG7A	286552	DS279615	DSG7A
282025	DS279615	DSG7A	286566	DS279615	DSG7A
284260	DS279615	DSG7A			

Continued on page 53

Bendix Tu-Flo 501
Caterpillar • Fine Splined Shaft
Flange Mount • Water and Air Cooled

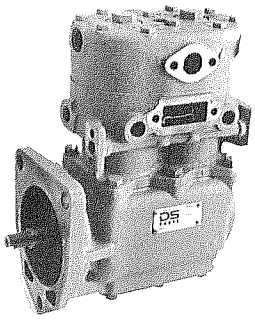


286584
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
286584	Left	Top	Threaded

• Shaft has 22 splines

Bendix Tu-Flo 700
Caterpillar • Splined Shaft • 3406B
Flange Mount • Water Cooled

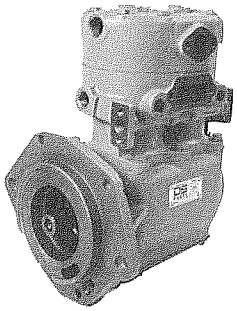


103278
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
103278 [1]	Left	Left & Top	Optional
289744	Left	Left & Top	Optional

[1] Has 2 1/2° tilt

Bendix Tu-Flo 700
Caterpillar • Flange
Flange Mount • Water Cooled



289336
Shown

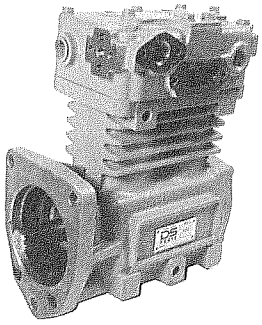
Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
289336	Left	Left & Top	Optional

Unloader & Gasket Kits listed by Compressor Part Number:

Note: DS Parts Compressors are packaged with mounting gaskets and plugs. **Silicone and other types of gasket sealants should not be used when installing air compressors. Damage to the compressor could result.**

Compressor Number	Unloader Kit	Gasket Kit
Continued from page 52		
286593	DS279615	DSG7A
289349	DS279615	DSG7A
Compressors shown on Page 53		
103278	DS279615	DSG7A
286584	DS279615	DSG7A
289336	DS279615	DSG7A
289744	DS279615	DSG7A

Bendix Tu-Flo 550 • 750
Caterpillar • Splined & Tapered Shaft • 3406B-3176
Flange Mount • Water Cooled Head • Air Cooled Block

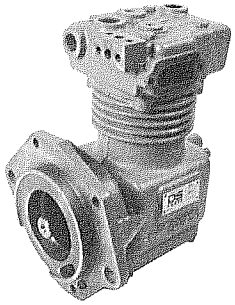


107509
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 550			
107509 (1)	Left	Left & Top	Optional
107917 (2)	Left	Left & Top	Optional
Tu-Flo 750			
107023 (1)	Left	Left & Top	Optional
107508 (2)	Left	Left & Top	Optional

(1) Tapered shaft - 2 1/2° tilt
(2) Splined shaft - 22 tooth

Bendix BX2150
Caterpillar • 3304-3306 Flange
Flange Mount • Water Cooled Head • Air Cooled Block

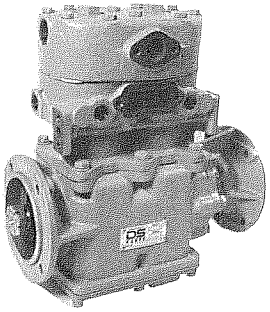


104042
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
104042	Optional	Optional	Threaded

(1) The cylinder head can be installed in any one of four different positions 90° apart.

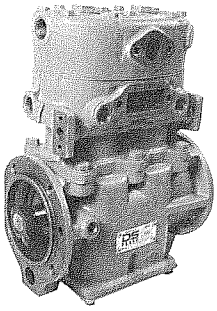
Bendix Tu-Flo 500 • 600
Cummins • Double Flange
Flange Mount • Water Cooled • Extended Case



228443
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 500			
228443	Left	Left	Flange
229525	Left	Top	Threaded
276974	Left	Left	Flange
Tu-Flo 600			
280622	Left	Left	Flange
280626	Left	Top	Threaded

Bendix Tu-Flo 500 • 600 • 700
Cummins Double Flange
Flange Mount • Water Cooled • Standard Flange



289339
Shown

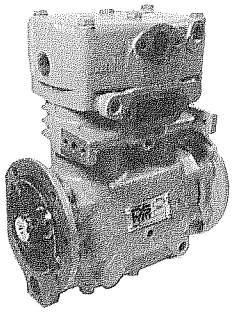
Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 500			
284699	Left	Left	Flange
284718	Left	Top	Threaded
284959	Left	Left	Flange
Tu-Flo 600			
284714	Left	Left	Flange
Tu-Flo 700			
289339	Left	Left & Top	Optional

Unloader & Gasket Kits listed by Compressor Part Number:

Note: DS Parts Compressors are packaged with mounting gaskets and plugs. **Silicone and other types of gasket sealants should not be used when installing air compressors. Damage to the compressor could result.**

Compressor Number	Unloader Kit	Gasket Kit
104042	DS104012	DSG7C
107023	--	DSG7B
107508	--	DSG7B
107509	--	DSG7B
107917	--	DSG7B
228443	DS279615	DSG8A
229525	DS279615	DSG8A
276974	DS279615	DSG8A
280622	DS279615	DSG8A
280626	DS279615	DSG8A
284699	DS279615	DSG8A
284714	DS279615	DSG8A
284718	DS279615	DSG8A
284959	DS279615	DSG8A
289339	DS279615	DSG8A

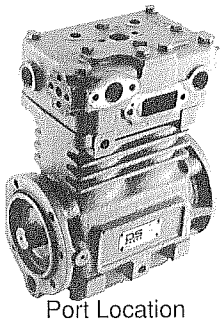
Bendix Tu-Flo 501
Cummins Double Flange
Flange Mount • Water and Air Cooled • Standard Flange



286554
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
286554	Left	Left	Flange
286555	Left	Top	Threaded

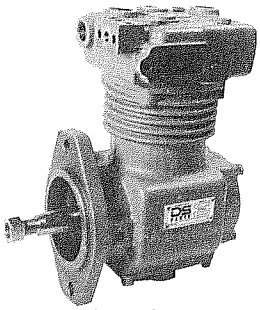
Bendix Tu-Flo 550 • 750
Cummins Double Flange
Flange Mount • Water Cooled



107506
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 550			
107506	Left	Left & Top	Optional
Tu-Flo 750			
107507	Left	Left & Top	Optional

Bendix BX2150
Cummins Single Flange
Flange Mount • Water Cooled Head • Air Cooled Block

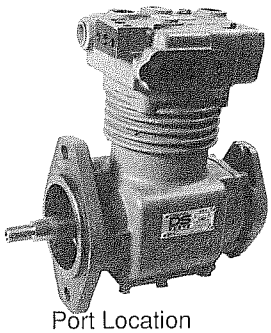


104103
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
104103	Optional[1]	Optional	Threaded

[1] The cylinder head can be installed in any one of four different positions 90° apart.

Bendix BX2150
Cummins & John Deere Double Flange
Flange Mount • Water Cooled Head • Air Cooled Block



104102
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
104102	Optional[1]	Optional	Threaded
106163 [2]	Optional[1]	Optional	Threaded

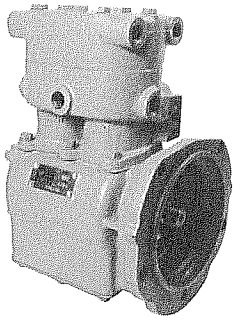
[1] The cylinder head can be installed in any one of four different positions 90° apart.
[2] John Deere Application - 8° tilt on flange

Unloader & Gasket Kits listed by Compressor Part Number:

Note: DS Parts Compressors are packaged with mounting gaskets and plugs. **Silicone and other types of gasket sealants should not be used when installing air compressors. Damage to the compressor could result.**

Compressor Number	Unloader Kit	Gasket Kit
104102	DS104012	DSG8C
104103	DS104012	DSG8B
107506	--	DSG8D
107507	--	DSG8D
106163	DS104012	DSG8C
286554	DS279615	DSG8A
286555	DS279615	DSG8A

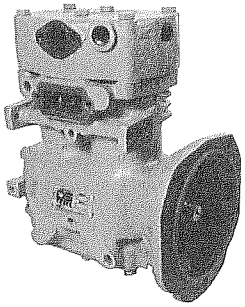
Bendix Tu-Flo 400
Detroit Diesel • 0° Tilt
Flange Mount • Water Cooled



276166
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
229726	Left	Left	Flange
276166	Left	Left	Flange
276778	Right	Right	Flange
281112	Right	Right	Flange
Tu-Flo 400			
Water Cooled Head•Air Cooled Block (not pictured)			
279150	Left	Left	Flange
279282	Right	Right	Flange

Bendix Tu-Flo 501
Detroit Diesel • 0° Tilt
Flange Mount • Water and Air Cooled

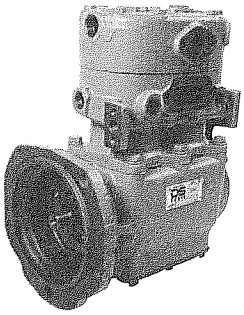


286539
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
286538	Left	Left	Flange
286539	Right	Right	Flange
286540	Left	Top	Threaded
286541	Right	Top	Threaded
286581	Left	Top	Threaded
286623 (1)	Left	Left	Flanged

(1) Detroit Diesel Series 60 application - Use of any compressor not designed for Series 60 could damage the compressor.

Bendix Tu-Flo 500 • 600 • 700
Detroit Diesel • 0° Tilt
Flange Mount • Water Cooled



289925
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 500			
276961	Left	Left	Flange
276962	Right	Right	Flange
282010	Right	Top	Threaded
283515	Right	Right	Flange
Tu-Flo 500			
Water Cooled Head • Air Cooled Block (not pictured)			
279068	Left	Left	Flange
279069	Right	Right & Top	Flange

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 600			
280570	Right	Right	Flange
280609	Left	Left	Flange
281677	Left	Top	Threaded
282011	Right	Top	Threaded
Tu-Flo 700			
101282	Right	Right & Top	Optional
102151	Right	Right & Top	Optional
102835	Left	Left & Top	Optional
106268 (1)	Left	Left & Top	Optional
289789	Right	Right & Top	Optional
289925	Left	Left & Top	Optional
289941	Right	Right & Top	Optional

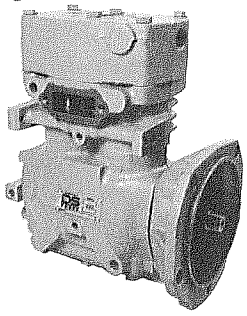
(1) Detroit Diesel Series 60 Application - Use of any compressor not designed for Series 60 could damage the compressor.

Unloader & Gasket Kits listed by Compressor Part Number:

Compressor Number	Unloader Kit	Gasket Kit
101282	DS279615	DSG9A
102151	DS279615	DSG9A
102835	DS279615	DSG9A
106268	DS279615	DSG9A
229726	DS279614	DSG9A
276166	DS279614	DSG9A
276778	DS279614	DSG9A
276961	DS279615	DSG9A
276962	DS279615	DSG9A
279068	DS279615	DSG9A
279069	DS279615	DSG9A
279150	DS279614	DSG9A
279282	DS279614	DSG9A
280570	DS279615	DSG9A
280609	DS279615	DSG9A
281112	DS279614	DSG9A
281677	DS279615	DSG9A
282010	DS279615	DSG9A
282011	DS279615	DSG9A
283515	DS279615	DSG9A
286538	DS279615	DSG9A
286539	DS279615	DSG9A
286540	DS279615	DSG9A

(Continued on following page)

Bendix Tu-Flo 501
Detroit Diesel • 0° Tilt
Flange Mount • Water and Air Cooled

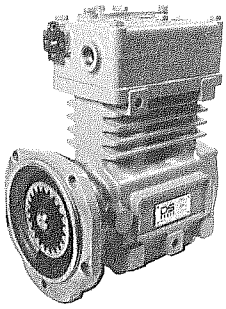


286579
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
286579	Right	Top	Threaded

• Press on Gear - Stub Shaft

Bendix Tu-Flo 550 • 750
Detroit Diesel • 0° Tilt
Flange Mount • Water Cooled Head • Air Cooled Block

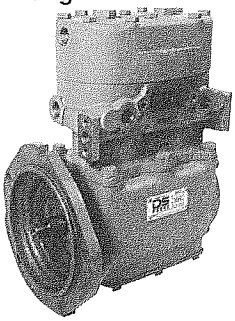


107513
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 550			
107513	Right	Right & Top	Optional
107622 (1)	Left	Left & Top	Optional
Tu-Flo 750			
107512	Right	Right & Top	Optional
107623 (1)	Left	Left & Top	Optional
107813	Left	Left & Top	Optional

(1) Detroit Diesel Series 60 thru drive application. Use of any unit not designed for 60 Series could result in damage.

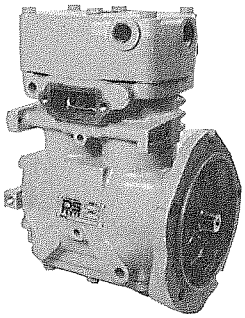
Bendix Tu-Flo 500 • 600
Detroit Diesel • 45° Tilt
Flange Mount • Water Cooled



281042
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 500			
281042	Left	Top	Threaded
284106	Left	Left	Flange
285252	Right	Top	Threaded
Tu-Flo 600			
282013	Left	Top	Threaded

Bendix Tu-Flo 501
Detroit Diesel • 45° Tilt
Flange Mount • Water and Air Cooled



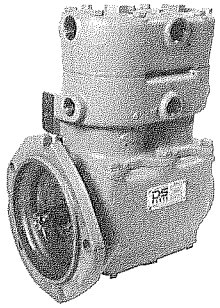
286543
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
286542	Left	Top	Threaded
286543	Right	Top	Threaded

Unloader & Gasket Kits listed by Compressor Part Number:

Compressor Number	Unloader Kit	Gasket Kit
(Continued from previous page)		
286541	DS279615	DSG9A
286581	DS279615	DSG9A
286623	DS279615	DSG9A
289789	DS279615	DSG9A
289925	DS279615	DSG9A
289941	DS279615	DSG9A
Compressors listed on this page:		
107512	--	DSG9B
107513	--	DSG9B
107622	--	DSG9B
107623	--	DSG9B
107813	--	DSG9B
281042	DS279615	DSG9A
282013	DS279615	DSG9A
284106	DS279615	DSG9A
285252	DS279615	DSG9A
286542	DS279615	DSG9A
286543	DS279615	DSG9A
286579	DS279615	DSG9A

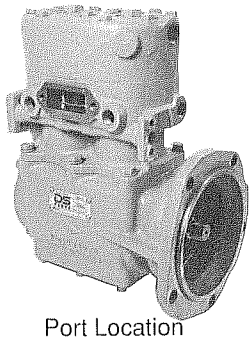
Bendix Tu-Flo 700
Detroit Diesel 45° Tilt
Flange Mount • Water Cooled



101858
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
101158	Right	Right & Top	Optional
289342	Left	Left & Top	Optional

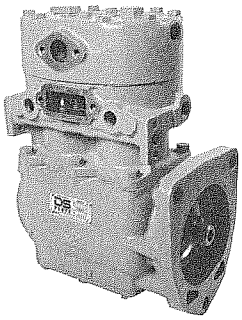
Bendix Tu-Flo 500 • 600 • 700
Detroit Diesel 75° Tilt
Flange Mount • Water Cooled



278445
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 500			
275777	Left	Left	Flange
278445	Right	Top	Threaded
Tu-Flo 600			
280369	Right	Top	Threaded
Tu-Flo 700			
289790	Left	Left & Top	Optional
289915	Right	Right &Top	Optional
289964	Right	Right & Top	Optional

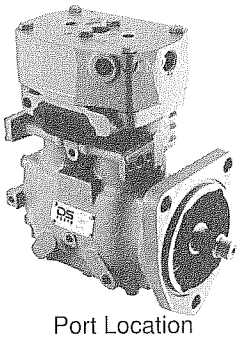
Bendix Tu-Flo 500 • 600
Mack Short Flange
Flange Mount • Water Cooled



227326
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 500			
227326	Right	Right	Flange
277901	Right	Top	Threaded
278604 (1)	Right	Right	Flange
278605	Right	Right	Flange
279556	Left	Left	Flange
284010	Right	Top	Threaded
Tu-Flo 600			
280608	Right	Right	Flange

Bendix Tu-Flo 501
Mack Short Flange
Flange Mount • Water and Air Cooled • Standard Flange



286572
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
286571 (2)	Right	Top	Threaded
286572	Right	Top	Threaded

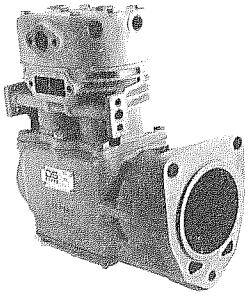
(1) 278604 has a water cooled head and an air cooled block with an angle port.
(2) Extended crankshaft

Unloader & Gasket Kits listed by Compressor Part Number:

Note: DS Parts Compressors are packaged with mounting gaskets and plugs. **Silicone and other types of gasket sealants should not be used when installing air compressors. Damage to the compressor could result.**

Compressor Number	Unloader Kit	Gasket Kit
101158	DS279615	DSG9A
227326	DS279615	DSG7A
275777	DS279615	DSG9A
277901	DS279615	DSG7A
278445	DS279615	DSG9A
278604	DS279615	DSG7A
278605	DS279615	DSG7A
279556	DS279615	DSG7A
280369	DS279615	DSG9A
280608	DS279615	DSG7A
284010	DS279615	DSG7A
286571	DS279615	DSG7A
286572	DS279615	DSG7A
289342	DS279615	DSG9A
289790	DS279615	DSG9A
289915	DS279615	DSG9A
289964	DS279615	DSG9A

Bendix Tu-Flo 500 • 600
Mack Extended Flange
Flange Mount • Water Cooled Head • Air Cooled Block

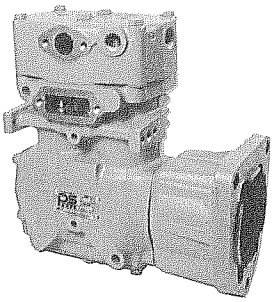


284662
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 500			
282586	Right	Right	Flange
282621	Right	Right	Flange
284662 (1)	Right	Right	Flange
Tu-Flo 600			
284307	Right	Right	Flange
285108 (1)	Right	Right	Flange

(1) Equipped for power steering

Bendix Tu-Flo 501
Mack Extended Flange
Flange Mount • Water and Air Cooled

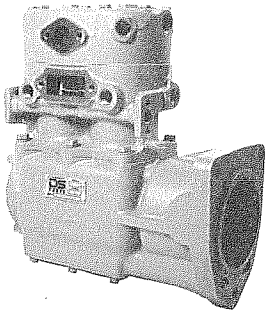


286544
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
102697	Right	Top	Threaded
286544	Right	Right	Flange

• Equipped for power steering

Bendix Tu-Flo 700
Mack Extended Flange
Flange Mount • Water Cooled

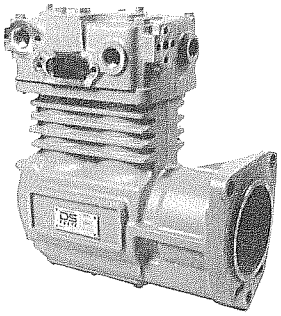


289340
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
289340	Right	Right & Top	Optional

• Equipped for power steering

Bendix Tu-Flo 550 • 750
Mack Extended Flange
Flange Mount • Water Cooled Head • Air Cooled Block



107511
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 550			
107511	Right	Right & Top	Optional
Tu-Flo 750			
107510	Right	Right & Top	Optional

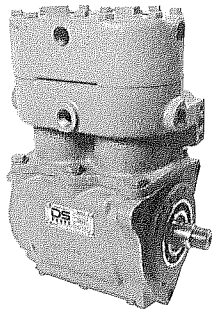
• Equipped for power steering

Unloader & Gasket Kits listed by Compressor Part Number:

Note: DS Parts Compressors are packaged with mounting gaskets and plugs. **Silicone and other types of gasket sealants should not be used when installing air compressors. Damage to the compressor could result.**

Compressor Number	Unloader Kit	Gasket Kit
102697	DS279615	DSG10A
107510	--	DSG10B
107511	--	DSG10B
282586	DS279615	DSG10A
282621	DS279615	DSG10A
284307	DS279615	DSG10A
284662	DS279615	DSG10A
285108	DS279615	DSG10A
286544	DS279615	DSG10A
289340	DS279615	DSG10A

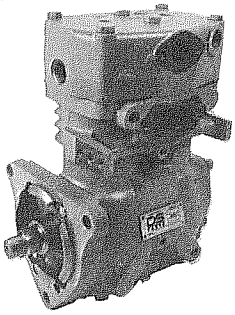
Bendix Tu-Flo 500 • 600 • 700
Mack "Foxhead" Flange
Flange Mount • Water Cooled • V8 Application



277122
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 500			
277122	Left	Left	Flange
283577	Right	Right	Flange
283692	Right	Right	Flange
Tu-Flo 600			
280628	Left	Left	Flange
Tu-Flo 700			
289348	Left	Left & Top	Optional

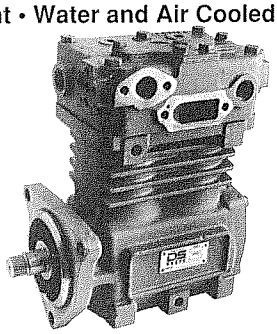
Bendix Tu-Flo 501
Mack "Foxhead" Flange
Flange Mount • Water and Air Cooled • V8 Application



286574
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
102953	Left	Top	Threaded
286574	Left	Left	Flange

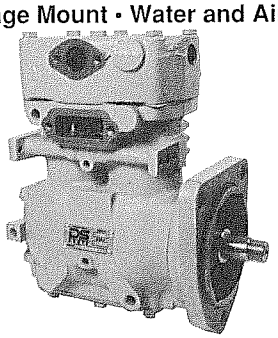
Bendix Tu-Flo 550 • 750
Mack "Foxhead" Flange
Flange Mount • Water and Air Cooled • V8 Application



108329
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Tu-Flo 550			
108329	Left	Left & Top	Optional
Tu-Flo 750			
107869	Left	Left & Top	Optional

Bendix Tu-Flo 501
Volvo / White Flange
Flange Mount • Water and Air Cooled



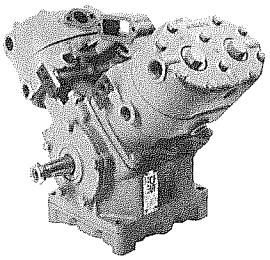
286563
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
102785	Left	Left	Flange
286563	Right	Right	Threaded

Unloader & Gasket Kits listed by Compressor Part Number:
Note: DS Parts Compressors are packaged with mounting gaskets and plugs. **Silicone and other types of gasket sealants should not be used when installing air compressors. Damage to the compressor could result.**

Compressor Number	Unloader Kit	Gasket Kit
102785	DS279615	DSG7A
102953	DS279615	DSG10C
107869	--	DSG10D
108329	--	DSG10D
277122	DS279615	DSG10C
280628	DS279615	DSG10C
283577	DS279615	DSG10C
283692	DS279615	DSG10C
286563	DS279615	DSG7A
286574	DS279615	DSG10C
289348	DS279615	DSG10C

Bendix Tu Flo-1000
Vertical Mount and Flange Mount
Pulley and Engine Drive • Water Cooled

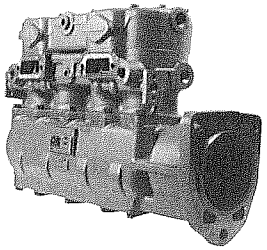


229990
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
Pulley Drive			
229990	Mid	Mid	Flange
Flange Mount			
276777	Mid	Mid	Flange

Tu-Flo 1000 compressors are available in other configurations on a Remanufacture & Return basis. Call DS Parts for information.

Bendix 1400L
Mack In Line 6 and Caterpillar
Flange Mount • Water Cooled

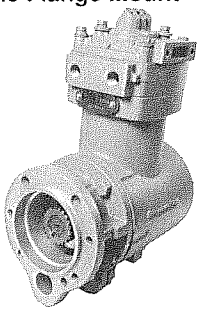


104584
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
104583 (1)	Manifold & Rear	Top	Threaded
104584 (2)	Manifold & Rear	Top	Threaded

(1) Application: Caterpillar 2 1/2° tilt
(2) Application: Mack In Line 6

Holset-Cummins
Single Cylinder Compressor
Double Flange Mount • Water Cooled

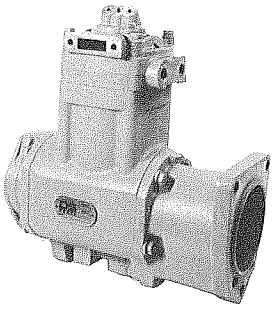


3049186
Shown

Part Number
3049186 Universal application - Either direct or remote governor mount. Interchanges with all O.E.M. Cummins part numbers shown below.

3005840	**3018530**	**3018544**	**3046440**
3010879	**3018531**	**3018545**	**3049186**
3015034	**3018534**	**3018551**	
3015630	**3018541**	**3018553**	
3016082	**3018542**	**3018555**	
3018527	**3018543**	**3024365**	

Holset-Mack
Single Cylinder Compressor
Extended Flange Mount • Water Cooled



3558000
Shown

Part Number
3558000 Holset replacement compressor for Mack extended flange applications.

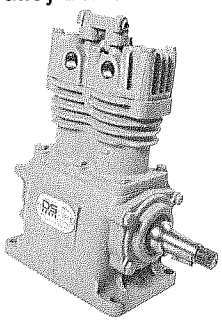
•Equipped for power steering

Unloader & Gasket Kits listed by Compressor Part Number:

Note: DS Parts Compressors are packaged with mounting gaskets and plugs. **Silicone and other types of gasket sealants should not be used when installing air compressors. Damage to the compressor could result.**

Compressor Number	Unloader Kit	Gasket Kit
104583	DS279615	DSG12A
104584	DS279615	DSG12A
229990	DS279615	DSG11A
276777	DS279615	DSG11B
3049186	DS3559511	DSG13H
3558000	DS3559511	DSG14H

Midland EL740
4 Hole Base • Vertical Mount
Pulley Drive • Air Cooled

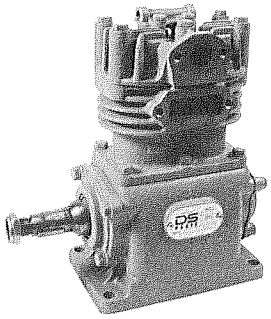


KN7000
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
KN7000	Right	Left	Threaded

- End cap oil feed only
- Base oil drain
- Rotatable head

Midland EL740
4 Hole Base • Vertical Mount
Pulley Drive • Air Cooled • Non Rotatable Head

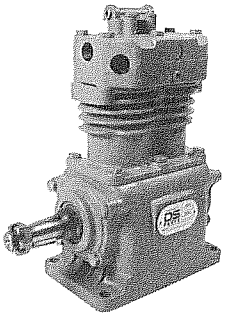


KN7010
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
KN7010	Right	Right	Flange
KN7020	Left	Left	Flange

- Base oil or end cap oil feed option
- Base oil drain

Midland EL740
4 Hole Base • Vertical Mount
Pulley Driven • Water Cooled Head • Air Cooled Block

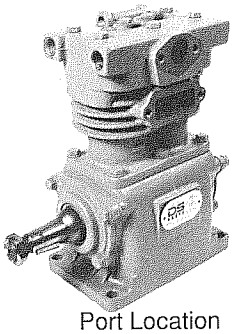


KN7030
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
KN7030	Right	Left	Threaded

- Base oil or end cap oil feed option
- Base oil drain

Midland EL740
4 and 6 Hole Base • Vertical Mount
Pulley Driven • Water Cooled Head • Air Cooled Block



KN7040
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
KN7040 (3)	Right	Right	Flange
KN7041 (1)	Left	Left	Flange
KN7050 (3)	Left	Left	Flange
KN7170 (2) (3)	Right	Right	Flange
KN7180 (2) (3)	Left	Left	Flange

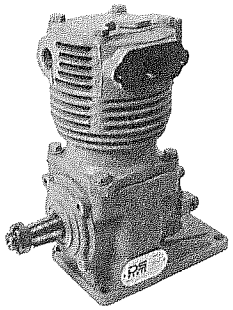
(1) Bottom cover plate for Ford application
(2) 6 hole base mount application
(3) Base oil or end cap oil feed option
- Non rotatable head
- Base oil drain

Unloader & Gasket Kits listed by Compressor Part Number:

Note: DS Parts Compressors are packaged with mounting gaskets and plugs. **Silicone and other types of gasket sealants should not be used when installing air compressors. Damage to the compressor could result.**

Compressor Number	Unloader Kit	Gasket Kit
KN7000	DS33C	DSG4E
KN7010	DS33C	DSG4E
KN7020	DS33C	DSG4E
KN7030	DS33C	DSG4E
KN7040	DS33C	DSG4E
KN7041	DS33C	DSG4F
KN7050	DS33C	DSG4E
KN7170	DS33C	DSG6E
KN7180	DS33C	DSG6E

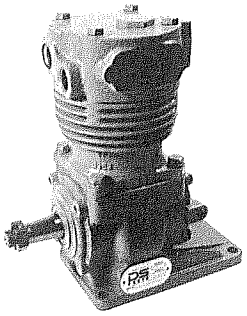
Midland EL850
4 Hole Base • Vertical Mount
Pulley Drive • Air Cooled



KN85020
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
KN85020	Right	Top	Threaded

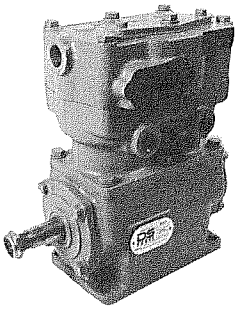
Midland EL850
4 Hole Base Vertical Mount
Pulley Drive • Water Cooled Head • Air Cooled Block



KN86020
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
KN86020	Right	Top	Threaded

Midland EL1300 • EL1600
4 Hole Base • Vertical Mount
Pulley Driven • Water Cooled Head



EL13060
Shown

Part Number	Port Location Inlet	Port Location Block	Type of Discharge
EL1300			
EL13020	Right	Right	Flange
EL13021	Left	Left	Flange
EL13022 (1)	Left	Right	Flange
EL13060 (2)	Right	Right	Flange
EL1600			
EL16020	Right	Right	Flange
EL16060 (2)	Right	Right	Flange

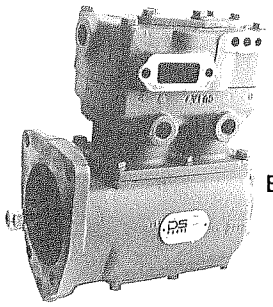
Bottom cover plate
for Ford application

(1) Bottom cover plate for Ford application.
(2) Base oil feed

Unloader & Gasket Kits listed by Compressor Part Number:
Note: DS Parts Compressors are packaged with mounting gaskets and plugs. **Silicone and other types of gasket sealants should not be used when installing air compressors. Damage to the compressor could result.**

Compressor Number	Unloader Kit	Gasket Kit
EL13020	DST26A	DSG4E
EL13021	DST26A	DSG4E
EL13022	DST26A	DSG4F
EL13060	DST26A	DSG4E
EL16020	DST26A	DSG4E
KN85020	DST26JB	DSG4G
KN86020	DST26JB	DSG4G

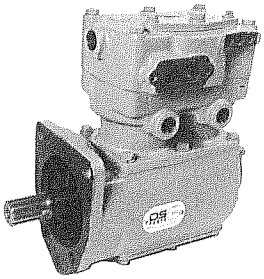
Midland EL1300 • EL1600
Caterpillar Tapered Shaft
Flange Mount • Water Cooled



EL13170
Shown

Part Number	Port Location Inlet	Port Location Block	Type of Discharge
EL1300			
EL13080	Right	Right	Flange
EL13170	Right	Right	Flange
EL13200	Right	Right	Flange
EL1600			
EL16080	Right	Right	Flange
EL16200	Right	Right	Flange

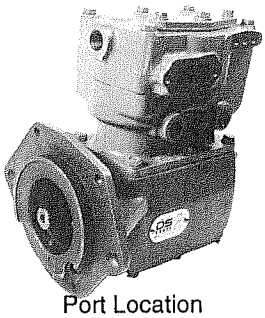
Midland EL1300 • EL1600
Caterpillar Splined Shaft
Flange Mount • Water Cooled



EL13120
Shown

Part Number	Port Location Inlet	Port Location Block	Type of Discharge
EL1300			
EL13120	Right	Right	Flange
EL1600			
EL16120	Right	Right	Flange

Midland EL1300
Caterpillar Flange
Flange Mount • Water Cooled



EL13151
Shown

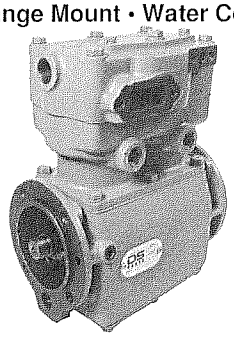
Part Number	Port Location Inlet	Port Location Block	Type of Discharge
EL13151	Right	Right	Flange

Unloader & Gasket Kits listed by Compressor Part Number:

Note: DS Parts Compressors are packaged with mounting gaskets and plugs. **Silicone and other types of gasket sealants should not be used when installing air compressors. Damage to the compressor could result.**

Compressor Number	Unloader Kit	Gasket Kit
EL13080	DST26A	DSG7E
EL13120	DST26A	DSG7E
EL13151	DST26A	DSG7E
EL13170	DST26A	DSG7E
EL13200	DST26A	DSG7E
EL16080	DST26A	DSG7E
EL16120	DST26A	DSG7E
EL16200	DST26A	DSG7E

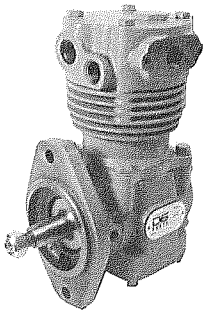
Midland EL1300 • EL1600
Cummins Double Flange
Flange Mount • Water Cooled



EL13040
Shown

Part Number	Port Location Inlet	Port Location Block	Type of Discharge
EL1300			
EL13040	Right	Right	Top/Flange
EL13041	Right	Right	Top/Flange
EL1600			
EL16040	Right	Right	Top/Flange

Midland EL850
Cummins B Series
Flange Mount • Water Cooled

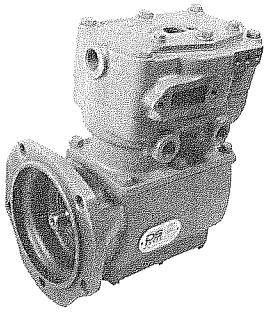


KNT86230
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
KNT86230	Optional	Optional	Threaded

• The head may be rotated in 90° increments allowing for 4 porting options.

Midland EL1300 • EL1600
Detroit Diesel Applications (Various Tilts)
Flange Mount • Water Cooled



EL13050
Shown

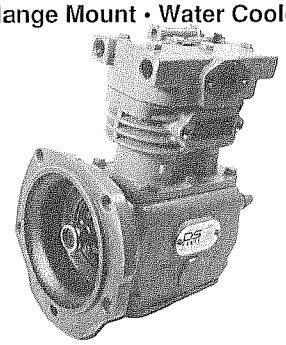
Part Number	Port Location Inlet	Port Location Block	Type of Discharge
EL1300			
EL13050	Right	Right	Flange - 0°
EL13051	Right	Right or Left	Flange - 0°
EL13070	Right	Left	Flange - 1°
EL13090	Right	Right	Flange - 41°
EL13100	Right	Right	Flange - 50°
EL13160	Right	Right	Flange - 45°

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
EL1600			
EL16050	Right	Right	Flange - 0°
EL16051	Right	Right or Left	Flange - 0°
EL16070	Right	Left	Flange - 1°
EL16072	Right	Left	Flange - 4°
EL16090	Right	Right	Flange - 41°
EL16100	Right	Right	Flange - 50°
EL16160	Right	Right	Flange - 45°
EL16250	Right	Right	Flange - 75°
EL1300 • EL1600			
DDC 60 Series application •Thru Drive (not pictured)			
EL13053	Right	Right	Flange - 0°
EL16053	Right	Right	Flange - 0°

Unloader & Gasket Kits listed by Compressor Part Number:

Compressor Number	Unloader Kit	Gasket Kit
EL13040	DST26A	DSG8E
EL13041	DST26A	DSG8E
EL13050	DST26A	DSG9E
EL13051	DST26A	DSG9E
EL13053	DST26A	DSG9E
EL13070	DST26A	DSG9E
EL13090	DST26A	DSG9E
EL13100	DST26A	DSG9E
EL13160	DST26A	DSG9E
EL16040	DST26A	DSG8E
EL16050	DST26A	DSG9E
EL16051	DST26A	DSG9E
EL16053	DST26A	DSG9E
EL16070	DST26A	DSG9E
EL16072	DST26A	DSG9E
EL16090	DST26A	DSG9E
EL16100	DST26A	DSG9E
EL16160	DST26A	DSG9E
EL16250	DST26A	DSG9E
KNT86230	DST26JB	DSG8F

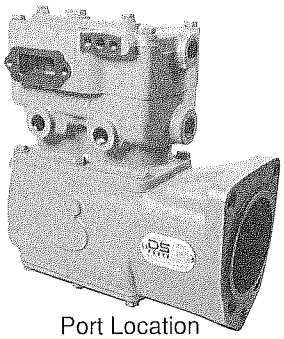
Midland EL740
Detroit Diesel Applications • 0° Tilt
Flange Mount • Water Cooled



KN7070
Shown

Part Number	Port Location Inlet	Port Location Outlet	Type of Discharge
KN7060	Right	Right	Flange
Thru Drive (Not pictured)			
KN7070	Right	Right	Flange
KN7080	Left	Left	Flange

Midland EL1300 • EL1600
Mack Extended Flange
Flange Mount • Water Cooled

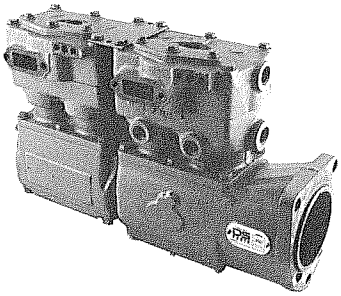


EL13111
Shown

Part Number	Port Location Inlet	Port Location Block	Type of Discharge
EL1300			
EL13111	Left	Left	Flange
EL1600			
EL16111	Left	Left	Flange

• Equipped for power steering

Midland EL3200
Mack In Line 6
Flange Mount • Water Cooled • Gear Drive



EL14111
Shown

Part Number	Port Location Inlet	Port Location Block	Type of Discharge
EL14111	Left or Right	Left or Right	Flange

• Crankshaft oil feed

Unloader & Gasket Kits listed by Compressor Part Number:

Note: DS Parts Compressors are packaged with mounting gaskets and plugs. **Silicone and other types of gasket sealants should not be used when installing air compressors. Damage to the compressor could result.**

Compressor Number	Unloader Kit	Gasket Kit
KN7060	DST33C	DSG9E
KN7070	DST33C	DSG9E
KN7080	DST33C	DSG9E
EL13111	DST26A	DSG10E
EL14111	DST26A	DSG10F
EL16111	DST16A	DSG10F

Guide to Identifying & Replacing Air Brake Valves

The Valves and Other Devices section of this catalog is divided into 5 Parts:

1. Index and Guide - A list of all the valves and other devices shown in this catalog by part number and the page they can be found on.

2. Original Equipment to Remanufactured Part Number Interchange - A list by valve manufacturer that interchanges their original equipment part numbers to remanufactured part numbers. It also identifies the type of device the part number represents.

3. Competitive Changeover Listing - A list by manufacturer that can be used to interchange and replace one manufacturer's product with another. Please note that crack pressure, hold off pressure and release pres sure may vary from one application to another. In addition, bushings may be required to adapt from one valve to another.

4. Application and Pictorial Guide - A pictorial guide showing popular valves and other devices. This section of the catalog is sorted by the device rather than by manufacturer.

5. Vehicle Manufacturer Part Number Interchange - A list by vehicle manufacturer that interchanges their number to the remanufactured part number. This interchange can be found in the appendix.

Valve Section Notes:

Often a valve can be identified by a tag that has been bolted to it by the manufacturer, or by a part number that has been stamped into the body. In some cases the stamped number can be a casting number. If in doubt please call DS Parts Customer Service for assistance.

Air brake valves that have become obsolete, particularly those manufactured by Berg and Wagner should be changed over to more current product. **Older cores for the most part do not meet DS Parts standards for remanufacturing.**

Part Number	Type	Manufacturer	Page
3100	Mini - Relay Valve	Sealco	103
3425	Control Valve	Sealco	89
5453	AR Relay Valve	Kelsey Hayes	102
5454	AR Relay Valve	Kelsey Hayes	102
5455	AR RelayValve	KelseyHayes	102
5459	AR Relay Valve	Kelsey Hayes	102
5460	AR Relay Valve	Kelsey Hayes	102
5461	4 Port Relay Valve	Kelsey Hayes	103
5462	4 Port Relay Valve	Kelsey Hayes	103
5468	Relay Valve	Kelsey Hayes	103
5470	4 Port Relay Valve	Kelsey Hayes	103
5900	Hand Control Valve	Sealco	94
6300	Sludge Remover	Sealco	113
6900	Air Starter Valve	Sealco	113
7700	Breakaway Valve	Sealco	111
9125	Relay Valve	Sealco	103
12345	Berg Relay Valve	Midland	102
12346	Berg Relay Valve	Midland	102
12360	TASK Valve	Midland	107
065041	AD-4 Air Dryer	Bendix	111
065044	AD-4 End Cover	Bendix	111
065060	HR-1 Hyd Relay Valve	Bendix	113
065077	HPP-1 Hyd Push Pull Valve	Bendix	113
065104	R-12 Relay Valve	Bendix	99

Part Number	Type	Manufacturer	Page
065125	R-12H RelayValve	Bendix	99
065145	BP-R1 Bobtail Relay Valve	Bendix	98
065146	BP-R1 Bobtail RelayValve	Bendix	98
065154	LQ-5 Bobtail Ratio Valve	Bendix	98
065225	AD-9 Air Dryer	Bendix	112
065313	E-12 Dual Foot Valve	Bendix	93
065314	E-14 Dual Foot Valve	Bendix	93
065317	E-14 Dual Foot Valve	Bendix	93
065395	E-14 Dual Foot Valve	Bendix	93
065437	SR-5 Spring Brake Valve	Bendix	109
065438	SR-5 Spring Brake Valve	Bendix	109
065439	SR-5 Spring Brake Valve	Bendix	109
065440	SR-5 Spring Brake Valve	Bendix	109
99600	Control Valve	Sealco	89
101100	E-10 Foot Valve	Bendix	93
101112	SR-4 Spring Brake Valve	Bendix	107
101135	RV-1 Press. Reducing Valve	Bendix	96
101311	LQ-4 Ratio Valve	Bendix	98
101333	R-10 Relay Valve	Bendix	99
101437	MV-2 Control Module	Bendix	91
101450	TR-3 Inversion Valve	Bendix	95
101569	MV-2 Spool Assembly	Bendix	91
101570	MV-2 Spool Assembly	Bendix	91
101622	SR-4 Spring Brake Valve	Bendix	107

Part Number	Type	Manufacturer	Page
101786	TC-6 Trailer Control Valve	Bendix	94
101818	E-7 Foot Valve	Bendix	93
101860	TC-7 Trailer Control Valve	Bendix	94
101900	AD-2 Desiccant Cartridge	Bendix	111
102394	TC-7 Trailer Control Valve	Bendix	94
102626	R-12 Relay Valve	Bendix	99
102761	SR-2 Spring Brake Valve	Bendix	106
103009	R-12H Relay Valve	Bendix	99
103010	R-14H Relay Valve	Bendix	100
103028	R-14 Relay Valve	Bendix	100
103061	SR-2 Spring Brake Valve	Bendix	106
103081	R-7 Modulating Relay Valve	Bendix	105
103139	R-14H Relay Valve	Bendix	100
103195	R-12H Relay Valve	Bendix	99
103294	R-14H RelayValve	Bendix	100
103833	R-14 Relay Valve	Bendix	100
103835	R-14H Relay Valve	Bendix	100
103912	R-12 Relay Valve	Bendix	99
103976	PR-4 Valve	Bendix	95
104165	R-12H Relay Valve	Bendix	99
104345	R-14H Relay Valve	Bendix	100
104358	AD-4 Desiccant Cartridge	Bendix	111
104561	R-12 Relay Valve	Bendix	99
104598	BP-1 ProportioningValve	Bendix	98
106284	BP-1 Proportioning Valve	Bendix	98
106313	R-14 Relay Valve	Bendix	100
107539	SR-4 Spring Brake Valve	Bendix	107
107794	AD-9 Desiccant Cartridge	Bendix	112
107896	AD-9 Purge Valve Assembly	Bendix	112
108076	SR-4 Spring Brake Valve	Bendix	107
110139	Relay Valve	Sealco	103
110147	RatioRelayValve	Sealco	108
110148	Ratio Relay Valve	Sealco	108
110170	Ratio Relay Valve	Sealco	108
110171	Ratio Relay Valve	Sealco	108
110191	Ratio Relay Valve	Sealco	108
110197	Trailer Relay Valve	Sealco	104
110200	Ratio Relay Emergency Valve	Sealco	106
110205	Ratio Relay Emergency Valve	Sealco	106
110267	Dolly Valve	Sealco	106
110268	Dolly Valve	Sealco	106
110310	Ratio Relav Valve	Sealco	108
110315	Ratio Relay Valve	Sealco	108
110338	Dolly Valve	Sealco	106
110360	LOV-2 Brake Relay Valve	Sealco	104
110365	LOV-2 Brake Relay Valve	Sealco	104
110370	LOV-CF Control Line Valve	Sealco	104
110375	LOV-CF Control Line Valve	Sealco	104
110380	LOV-4 Brake Relay Valve	Sealco	104
110385	LOV-4 Brake Relay Valve	Sealco	104
110400	Foot Valve	Sealco	92
110410	2 Port Brake Relay Valve	Sealco	104
110412	2 Port Brake Relay Valve	Sealco	104
110415	4 Port Brake Relay Valve	Sealco	104
110416	4 Port Brake Relay Valve	Sealco	104
110450	Relay Valve	Sealco	103
110460	Relay Emergency Valve	Sealco	106
110470	Relay Emergency Valve	Sealco	106
110500	Trailer Spring Brake Control	Sealco	109
227355	R-1C Relay Valve	Bendix	98
227356	R-1C Relay Valve	Bendix	98
227357	R-1C Relay Valve	Bendix	98
227661	TP-2 Tractor Protection Valve	Bendix	109
227672	TP-2 Tractor Protection Valve	Bendix	109
228050	DS-1 Dbl Ck & Stoplight Sw	Bendix	95
228165	DS-1 Dbl Ck & Stoplight Sw	Bendix	95
228429	E-1 Foot Valve	Bendix	91
228430	E-1 Foot Valve	Bendix	91
228520	DS-1 Dbl Ck & Stoplight Sw	Bendix	95
228762	TW-3 Control Valve	Bendix	89
229434	RE-4 Relay Emergency Valve	Bendix	105
229467	R-5 Relay Valve	Bendix	98
229493	DS-1 Dbl Ck & Stoplight Sw	Bendix	95
229500	E-2 Foot Valve	Bendix	91
229501	E-2 Foot Valve	Bendix	91
229505	LQ-2 Valve	Bendix	97
229507	LQ-2 Valve	Bendix	97
229509	LQ-2 Valve	Bendix	97
229608	TW-1 Control Valve	Bendix	89
229635	TW-1 Control Valve	Bendix	89
229813	QR-1 Quick Release Valve	Bendix	97
229814	Type 9 Roto Chamber	Bendix	114
229815	Type 12 Roto Chamber	Bendix	114
229816	Type 16 Roto Chamber	Bendix	114
229817	Type 20 Roto Chamber	Bendix	114
229818	Type 24 Roto Chamber	Bendix	114
229819	Type 30 Roto Chamber	Bendix	114
229820	Type 36 Roto Chamber	Bendix	114
229821	Type 50 Roto Chamber	Bendix	114
229844	QR-1 Quick Release Valve	Bendix	97
229859	QR-1 Quick Release Valve	Bendix	97
229860	QR-1 Quick Release Valve	Bendix	97
275491	D-2 Governor	Bendix	87
276270	TC-2 TrailerControl Valve	Bendix	94
276272	TC-2 Trailer Control Valve	Bendix	94
276462	PP-2 Control Valve	Bendix	87
276566	PP-1 Control Valve	Bendix	87
276567	PP-1 Control Valve	Bendix	87
276635	TW-4 Control Valve	Bendix	89
277144	RV-1 Press Reducing Valve	Bendix	96
277147	PR-2 Press Protection Valve	Bendix	95
277148	PR-2 Press Protection Valve	Bendix	95
277214	RV-1 Press Reducing Valve	Bendix	96
277226	PR-2 Press Protection Valve	Bendix	95
277227	PR-2 Press Protection Valve	Bendix	95
277340	TR-2 Inversion Valve	Bendix	95
277446	RE-4 Relay Emergency Valve	Bendix	105
277863	E-3 Foot Valve	Bendix	91
278426	RV-1 Press Protection Valve	Bendix	96
278614	DC-4 Double Check Valve	Bendix	95
278615	DC-4 Double Check Valve	Bendix	95
278825	SV-1 Synchronizing Valve	Bendix	96
278998	E-3 Foot Valve	Bendix	91
279000	TP-3 Tractor Protection Valve	Bendix	109
279180	R-6 Relay Valve	Bendix	99
279750	E-4 Foot Valve	Bendix	92
279787	PP-3 Control Valve	Bendix	87
279950	E-5 Foot Valve	Bendix	92
279952	R-6 Relay Valve	Bendix	99
279962	TP-3 Tractor Protection Valve	Bendix	109

Part Number	Type	Manufacturer	Page
280243	R-6 Relay Valve	Bendix	99
280375	R-6 Relay Valve	Bendix	99
280454	PP-2 Valve	Bendix	87
280651	R-6 Relay Valve	Bendix	99
280758	TR-3 Inversion Valve	Bendix	95
280904	TH-3 Control Valve	Bendix	89
280905	TW-2 Control Valve	Bendix	89
281024	QR-1 QuickReleaseValve	Bendix	97
281318	TR-3 Inversion Valve	Bendix	95
281459	TR-3 Inversion Valve	Bendix	95
281587	PP-1 Control Valve	Bendix	87
281860	RE-6 Relay Emergency Valve	Bendix	105
281865	RE-6 Relay Emergency Valve	Bendix	105
281923	DV-2 Drain Valve	Bendix	91
281946	PP-5 Control Valve	Bendix	87
282368	TC-4 Mod Control Valve	Bendix	90
282381	TC-4 Mod Control Valve	Bendix	90
282472	SV-1 Synchronizing Valve	Bendix	96
283040	TW-3 Control Valve	Bendix	89
283700	SV-1 Synchronizing Valve	Bendix	96
283932	103081	Bendix	105
283935	TW-3 Control Valve	Bendix	89
283940	R-6 Relay Valve	Bendix	99
284460	PR-3 Valve	Bendix	108
284744	PP-5 Control Valve	Bendix	87
284760	E-7 Foot Valve	Bendix	93
284795	DV-2 Drain Valve (Heated)	Bendix	91
286171	E-6 Foot Valve	Bendix	92
286211	RD-3 Control Valve	Bendix	88
286364	Sr-1 Spring Brake Valve	Bendix	106
286370	R-8 Relay Valve	Bendix	99
286371	R-8 RelayValve	Bendix	99
286500	PR-4 Press Protection Valve	Bendix	95
286773	E-7 Foot Valve	Bendix	93
286775	E-7 Foot Valve	Bendix	93
286875	AD-2 End Cover	Bendix	111
286934	AD-2 Air Dryer	Bendix	111
287114	R-8P Press Eq Relay Valve	Bendix	99
287224	R-8 RelayValve	Bendix	99
287238	PP-8 Control Valve	Bendix	88
287240	PP-8 Control Valve	Bendix	88
287260	R-8 Relay Valve	Bendix	99
287376	SR-2 Spring Brake Valve	Bendix	106
287411	E-7 Foot Valve	Bendix	93
287417	PP-1 Control Valve	Bendix	87
287418	PP-8 Control Valve	Bendix	88
287564	E-7 Foot Valve	Bendix	93
287637	PP-1 Valve	Bendix	87
288063	SR-1 Spring Brake Valve	Bendix	106
288239	PP-7 Control Valve	Bendix	88
288240	PP-7 Control Valve	Bendix	88
288241	PP-7 Control Valve	Bendix	88
288242	PP-7 Control Valve	Bendix	88
288251	QR-1 Quick Release Valve	Bendix	97
288301	TP-4 Tractor Protection Valve	Bendix	110
288323	PR-4 Press Protection Valve	Bendix	95
288369	R-8 Relay Valve	Bendix	99
288383	E-7 Foot Valve	Bendix	93
288417	LQ-2 Valve	Bendix	97
288586	TR-3 Inversion Valve	Bendix	95
288605	TP-5 Tractor Protection Valve	Bendix	110
288645	VM-3 Manifold Valve	Bendix	110
288746	PP-3 Control Valve	Bendix	87
289144	LQ-4 Ratio Valve	Bendix	98
289148	LQ-4 Ratio Valve	Bendix	98
289182	QR-1C Qk Rel /Dbl Ck Valve	Bendix	97
289259	PP-8 Control Valve	Bendix	88
289477	PP-3 Control Valve	Bendix	87
289512	PP-3 Control Valve	Bendix	87
289714	QR-1 C Qk Rel /Dbl Ck Valve	Bendix	97
401033	Control Valve	Sloan	88
401037	Control Valve	Sloan	88
90054007	Leveling Valve	Neway	112
1000-5A	Cartridge for A1000	Sealco	106
0912PB	Piggyback Springbrake	Universal	114
0916PB	Piggyback Springbrake	Universal	114
1212PB	Piggyback Springbrake	Universal	114
1216PB	Piggyback Springbrake	Universal	114
1616PB	Piggyback Springbrake	Universal	114
1624PB	Piggyback Springbrake	Universal	114
2024PB	Piggyback Springbrake	Universal	114
2424PB	Piggyback Springbrake	Universal	114
2430PB	Piggyback Springbrake	Universal	114
3024PB	Piggyback Springbrake	Universal	114
3030PB	Piggyback Springbrake	Universal	114
3036PB	Piggyback Springbrake	Universal	114
3636PB	Piggyback Springbrake	Universal	114
0912T	Tandem Springbrake	Universal	114
0916T	Tandem Springbrake	Universal	114
1212T	Tandem Springbrake	Universal	114
1216T	Tandem Springbrake	Universal	114
1624T	Tandem Springbrake	Universal	114
2024T	Tandem Springbrake	Universal	114
2424T	Tandem Springbrake	Universal	114
2424TM	Tandem Springbrake (Mack)	Universal	114
2430T	Tandem Sprinabrake	Universal	114
3024T	Tandem Springbrake	Universal	114
3030T	Tandem Springbrake	Universal	114
3030TM	Tandem Springbrake (Mack)	Universal	114
3036T	Tandem Springbrake	Universal	114
3636T	Tandem Springbrake	Universal	114
6125-2	Foot Valve	Sealco	92
17600-2	Control Valve	Sealco	89
17600B-2	Control Valve	Sealco	89
21600-2	Control Valve	Sealco	90
A1000	Trailer Valve	Sealco	106
A1100	Relay Valve	Sealco	103
A3546	Shift Valve	Fuller	112
A3547	Range Selector Valve	Fuller	112
A3991	Range Selector Valve	Fuller	112
A4668	Range Selector Valve	Fuller	112
A25600	Control Valve	Sealco	89
A46229	EE Emergency Relay Valve	Wagner	105
A71890	EE Emergency Relay Valve	Midland/Wagner	105
A71891	EE Emergency Relay Valve	Midland/Wagner	105
A80070	RS Relay Valve	Midland/Wagner	102
A83034	Control Valve	Midland/Wagner	88
A83580	Control Valve	Midland/Wagner	88
A85490	RG4 Relay Valve	Midland/Wagner	102
A85493	RG4 Relay Valve	Midland/Wagner	102

Part Number	Type	Manufacturer	Page
A86473	RF Relay Valve	Midland/Wagner	102
A86477	RF Relay Valve	Midland/Wagner	102
A87490	Control Valve	Midland/Wagner	88
A88802	RT Trailer Valve	Midland/Wagner	107
A88812	RT Trailer Valve	Midland/Wagner	107
A97600	RS-2 Relay Valve	Midland/Wagner	102
A98730	RT2 Trailer Valve	Midland/Wagner	108
A99036	EE Relay Emer Valve	Midland/Wagner	105
A99370	RT2 Trailer Valve	Midland/Wagner	108
A103600	RF Relay Valve	Midland/Wagner	102
AE78880	RG2 Relay Valve	Midland/Wagner	101
AE78882	RG2 Relay Valve	Midland/Wagner	101
AE78886	RG2 Relay Valve	Midland/Wagner	101
AE78887	RG2 Relay Valve	Midland/Wagner	101
AE78889	RG2 Relay Valve	Midland/Wagner	101
AE86310	RG2 Relay Valve	Midland/Wagner	101
AE86311	RG2 Relay Valve	Midland/Wagner	101
AE86313	RG2 Relay Valve	Midland/Wagner	101
AE86314	RG2 RelayValve	Midland/Wagner	101
AE86318	RG2 Relay Valve	Midland/Wagner	101
BM69973-12	Fuel Solenoid	Cummins	113
BM69973-24	Fuel Solenoid	Cummins	113
KN18511	Governor	Midland	87
KN18530	Governor	Midland	87
KN18531	Governor	Midland	87
KN20000	Control Valve	Midland	90
KN20010	Control Valve	Midland	88
KN20020	Control Valve	Midland	88
KN20030	Control Valve	Midland	88
KN20040	Control Valve	Midland	90
KN20050	Control Valve	Midland	90
KN20060	Control Valve	Midland	88
KN20070	Modulating Control Valve	Midland	90
KN20071	Hand Control Valve	Midland	94
KN20080	Control Valve	Midland	90
KN20090	Control Valve	Midland	90
KN20110	Control Valve	Midland	90
KN20561	Hand Control Valve	Midland	94
KN20562	Hand Control Valve	Midland	94
KN20580	Hand Control Valve	Midland	94
KN20581	Hand Control valve	Midland	94
KN20590	Hand Control Valve	Midland	94
KN22100	Foot Valve	Midland	92
KN22140	Foot Valve	Midland	93
KN22150	Foot Valve	Midland	93
KN24000	Drain Valve	Midland	91
KN24001	Drain Valve (Heated)	Midland	91
KN26000	RT-4 Spring Brake Valve	Midland	107
KN26010	RT-4 Spring Brake Valve	Midland	107
KN27200	Leveling Valve	Midland	112
KN28010	Relay Valve	Midland	100
KN28011	Relay Valve	Midland	100
KN28030	Inversion Valve	Midland	107
KN28060	Relay Valve	Midland	100
KN28061	Relay Valve	Midland	100
KN28065	Relay Valve	Midland	100
KN28071	Relay Valve	Midland	100
KN28080	Relay Valve	Midland	101
KN28085	Relay Valve	Midland	101
KN28130	Relay Valve	Midland	101
KN28131	Relay Valve	Midland	101
KN28132	Relay Valve	Midland	100
KN28140	RelayValve	Midland	100
KN28300	Balancing Relay Valve	Midland	101
KN28500	RG2 Relay Valve	Midland	101
KN28510	RG2 Relay Valve	Midland	101
KN28520	RG2 Relay Valve	Midland	101
KN28600	Full Function Valve	Midland	109
KN28601	Full Function Valve	Midland	109
KN30010	Emergency Relay Valve	Midland	105
KN30010N	Emergency Relay Valve	Midland	105
KN30100	EE Emergency Relay Valve	Midland	105
KN30200	EE Emergency RelayValve	Midland	105
KN30300	EE Emergency Relay Valve	Midland	105
KN30400	EE Emergency Relay Valve	Midland	105
KN31000	Pressure Protection Valve	Midland	96
KN31010	Pressure Protection Valve	Midland	96
KN31050	Pressure Regulating Valve	Midland	96
KN31060	Pressure Regulating Valve	Midland	96
KN31070	Pressure Regulating Valve	Midland	96
KN31080	Pressure Regulating Valve	Midland	96
KN32000	Quick Release Valve	Midland	97
KN32010	Quick Release Valve	Midland	97
KN32020	Quick Release Valve	Midland	97
KN32030	Lmtg Qk Rel & Dbl Ck Valve	Midland	97
KN32040	Qk Rel & Dbl Ck Valve	Midland	97
KN34030	Tractor Protection Valve	Midland	110
KN34050	Tractor Protection Valve	Midland	110
KN34070	Tractor Protection Valve	Midland	110
KN34080	Tractor Protection Valve	Midland	110
KN34090	Tractor Protection Valve	Midland	110
MA15500	Hydraulic Parking Brake	Midland	114
MA15770	KSM2050 Chamber	Midland	114
MA15771	KSM2060Chamber	Midland	114
MA15772	KSM2075 Chamber	Midland	114
MA15773	KSM2450 Chamber	Midland	114
MA15774	KSM2460 Chamber	Midland	114
MA15775	KSM2475 Chamber	Midland	114
MA15776	KSM3060 Chamber	Midland	114
MA15777	KSM3075 Chamber	Midland	114
MA15778	KSM3660 Chamber	Midland	114
MA15779	KSM3675 Chamber	Midland	114
SCO9	Type 9 Service Chamber	Universal	114
SC12	Type 12 Service Chamber	Universal	114
SC16	Type 16 Service Chamber	Universal	114
SC20	Type 20 Service Chamber	Universal	114
SC24	Type 24 Service Chamber	Universal	114
SC30	Type 30 Service Chamber	Universal	114
SC36	Type 36 Service Chamber	Universal	114

Disclaimer

All of the pictures, specifications and other data in this section have been carefully checked with original manufacturers catalogs at the time of publication. DS Parts assumes no responsibility should any information be deemed as incorrect, and reserves the right to make changes at any time without notice.

Please note: Manufacturer's names, symbols, numbers, and descriptions are used for reference purposes only. It is not implied that any part listed by DS Parts is the product of these manufacturers.

Bendix Valves and Other Devices

The following listing is for Bendix valves and other devices only. It is a numerical listing that includes all popular valve part numbers that were available for reference as of the date of publication. The first column refers to the Bendix original equipment part number. The second column is the part number that is used in the aftermarket as the remanufactured replacement. The last column lists the type of cdevice each part number represents.

OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
065019	065019	TW-N	101104	275491	D-2	101488	101488	R-6	102273	229635	TW-1
065039	065060	HR-1	101112	101112	SR-4	101489	101489	R-6	102276	102626	R-12
065040	065040	AD-4	101121	101112	SR-4	101490	101490	R-6	102277	102626	R-12
065041	065041	AD-4	101125	101125	TR-2	101527	101527	R-6	102278	102626	R-12
065042	065042	AD-4	101130	287564	E-7	101528	288605	TP-5	102279	102626	R-12
065043	65043	AD4EC	101186	286171	E-6	101543	101622	SR-4	102280	102626	R-12
065044	065044	AD4EC	101191	281923	DV-2	101544	101544	TC-2	102281	102626	R-12
065045	065045	AD4EC	101197	101197	RE-6	101549	101549	R-10	102308	104087	TC-2
065053	065075	PP-1	101204	286171	E-6	101533	101533	R-8	102344	102344	QR-1
065057	065057	AD-4	101231	288267	E-7	101563	289098	E-6	102388	101860	TC-7
065058	065058	AD4EC	101232	101232	R-8	101607	101607	R-10	102394	102394	TC-7
065060	065060	HR-1	101234	103081	R-7	101569	101569	SPOOL	102615	102626	R-12
065061	065061	PP-1	101237	286171	E-6	101570	101570	SPOOL	102626	102626	R-12
065066	065066	QRN	101238	286171	E-6	101622	101622	SR-4	102638	288605	TP-5
065067	065067	QRN	101239	286171	E-6	101647	101647	QR-1	102654	275491	D-2
065068	065068	QRN	101240	286171	E-6	101654	275491	D-2	102705	102707	TC-7
065069	065069	QRN	101241	286171	E-6	101655	275491	D-2	102706	102708	TC-7
065070	065070	QRN	101249	101249	LQ-4	101662	285518	DV-2	102754	275491	D-2
065075	065075	PP-1	101249	101249	LQ-4	101781	101781	TR-3	102761	102761	SR-2
065077	065077	HPP-1	101251	287238	PP-8	101783	288239	PP-7	102815	103009	R-12H
065089	065089	AD-4	101267	284744	PP-5	101784	287238	PP-8	102816	102816mm	R-14
065090	065090	AD4EC	101270	101100	E-10	101786	101786	TC-6	102848	102848mm	R-12H
065102	065102	AD-4	101279	276567	PP-1	101801	101801	E-7	102849	103195	R-12H
065103	065103	AD4EC	101285	101100	E-10	101813	101818	E-7	102852	103009	R-12H
065104	065104	R-12	101297	287238	PP-8	101814	101818	E-7	102854	276567	PP-1
065108	275491	D-2	101298	101298	R-8	101815	288383	E-7	102855	103010	R-14
065111	065111	AD-4	101305	101100	E-10	101817	101818	E-7	102856	103010	R-14
065115	065115	TW-N	101307	288721	PP-7	101818	101818	E-7	102857	103010	R-14
065125	065125	R-12H	101312	286171	E-6	101820	229635	TW-1	102858	103010	R-14
065154	065154	LQ-5	101324	275491	D-2	101825	286171	E-6	102859	103010	R-14
065156	065156	MV-3	101325	284654	TC-2	101836	101781	TR-3	102860	103010	R-14
065157	065157	MV-3	101333	101333	R-10	101838	275491	D-2	102877	275491	D-2
065159	065159	MV-3	101344	104086	TC-2	101846	101437	MV-2	102944	286171	E-6
065160	065160	MV-3	101350	279950	E-5	101849	288239	PP-7	102969	229635	TW-1
065161	065161	MV-3	101363	287564	E-7	101850	276567	PP-1	102981	103009	R-12H
065186	065186	MV-3	101381	101475	E-2	101857	286171	E-6	102997	065060	HR-1
065187	065187	MV-3	101382	287073	E-7	101900	101900	AD2CT	103009	103009	R-12H
065192	065192	MV-3	101395	276567	PP-1	101910	101860	TC-7	103010	103010	R-14H
065208	065208	MV-3	101396	288239	PP-7	101914	275491	D-2	103028	103028	R-14
065224	065224	AD-9	101415	281923	DV-2	102052	283828	PP-1	103039	103039	R-14H
065225	065225	AD-9	101416	281923	DV-2	102144	103081	R-7	103055	275491	D-2
065226	065226	AD-9	101437	101437	MV-2	102155	102155	TC-6	103061	103061	SR-2
065227	065227	AD-9	101438	101846	MV-2	102165	102626	R-12	103069	275491	D-2
065228	065228	AD-9	101439	101456	PP-1	102166	102626	R-12	103081	103081	R-7
065229	065229	AD-9EC	101450	101450	TR-3	102167	229635	TW-1	103087	104149	TC-2
065230	065230	AD-9EC	101456	101456	PP-1	102176	282499	PP-1	103097	288605	TP-5
065231	065231	AD-9EC	101459	101460	TC-2	102177	282499	PP-1	103119	275491	D-2
065243	065243	AD-9	101460	101460	TC-2	102178	275491	D-2	103139	103139	R-14H
065313	065313	E-12	101473	288383	E-7	102186	287238	PP-8	103144	275491	D-2
065314	065314	E-14	101474	275491	D-2	102187	276567	PP-1	103151	275491	D-2
065316	065316	TW-11	101475	101475	E-2	102191	288241	PP-7	103176	103176	TP-5
065317	065317	E-14	101478	276567	PP-1	102192	288241	PP-7	103195	103195	R-12H
065395	065395	E-14	101479	288239	PP-7	102232	287600	PP-1	103213	286171	E-6
101100	101100	E-10	101487	101487	QR-1	102237	276270	TC-2	103219	065019	TW-N

OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
103233	065019	TW-N	104600	104600	BP-1	226639	226639	TW-3	229604	229635	TW-1
103294	103294	R-14H	104644	104644	RD-3	226836	228429	E-1	229605	229635	TW-1
103347	275491	D-2	106131	285857	TC-2	226944	228429	E-1	229606	229635	TW-1
103353	281946	PP-5	106284	106284	BP-1	226945	228429	E-1	229607	229607	TW-1
103357	281946	PP-5	106313	106313	R-14	227030	228429	E-1	229608	229608	TW-1
103756	287417	PP-1	106331	065157	MV-3	227041	227041	TW-1	229609	229609	TW-1
103757	287417	PP-1	106891	286171	E-6	227176	228429	E-1	229610	229610	TW-1
103769	275491	D-2	106929	065145	BP-R1	227248	227248	PV-1	229611	229611	TW-1
103770	275491	D-2	106931	065146	BP-R1	227259	228429	E-1	229612	229612	TW-5
103771	275491	D-2	106941	106941	TP-5 (MACK)	227355	227355	R-1	229613	276635	TW-4
103772	275491	D-2	106981	065208	MV-3	227356	227356	R-1	229614	276635	TW-4
103792	287418	PP-8	106992	065157	MV-3	227357	227357	R-1C	229615	276635	TW-4
103833	103833	R-14	107196	065154	LQ-5	227360	227360	RE-1C	229616	276635	TW-4
103834	103010	R-14H	107212	065160	MV-3	227361	227360	RE-1C	229617	229635	TW-1
103835	103835	R-14H	107213	065161	MV-3	227661	227661	TP-2	229618	229635	TW-1
103846	275491	D-2	107214	065159	MV-3	227672	227672	TP-2	229619	229635	TW-1
103852	229635	TW-I	107218	065156	MV-3	227699	226411	SL-3	229620	229635	TW-1
103870	275491	D-2	107220	065186	MV-3	227801	227661	TP-2	229621	229635	TW-1
103912	103912	R-12	107433	065187	MV-3	227818	228429	E-1	229622	229635	TW-1
103936	103936	TC-2	107467	065192	MV-3	227932	227932	TP-2	229623	229635	TW-1
103937	103937	TC-2	107539	107539	SR-4	228015	228129	TH-2	229624	229635	TW-1
103976	103976	PR-4	107630	065145	BP-R1	228050	228050	DS-1	229625	229635	TW-1
103981	104358	AD4CT	107684	065154	LQ-5	228051	227041	TW-1	229626	229635	TW-1
103996	103996	E-6	107794	107796	AD9CT	228125	228429	E-1	229627	229635	TW-1
104022	275491	D-2	107796	107796	AD9CT	228129	228129	TH-2	229628	229635	TW-1
104090	065075	PP-1	107896	107896	AD9PA	228165	228165	DS-1	229629	229635	TW-1
104107	284744	PP-5	107897	107897	AD9PA	228166	228165	DS-1	229631	229635	TW-1
104145	104240	PP-1	107938	065154	LQ-5	228224	228429	E-1	229632	229635	TW-1
104147	286171	E-6	108076	108076	SR-4	228276	227672	TP-2	229633	229635	TW-1
104149	104149	TC-2	108377	108377	E-12	228429	228429	E-1	229634	229635	TW-1
104165	104165	R-12H	108439	065316	TW-11	228477	228477	TE-1	229635	229635	TW-1
104168	065019	TW-N	108505	065146	BPR-1	228485	225892	TW-3	229636	229635	TW-1
104227	275491	D-2	108523	065313	E-12	228500	229434	RE-4	229637	229635	TW-1
104235	065019	TW-N	217698	217698	DC-1	228510	229434	RE-4	229638	229635	TW-1
104237	104240	PP-1	221992	221991	QRV	228520	228520	DS-1	229639	229635	TW- 1
104240	104240	PP-1	223578	223870	LP-2	228600	288600	SL-4	229640	229635	TW-1
104245	065060	HR-1	223855	205000	QRV	228687	228600	SL-4	229641	229635	TW-1
104248	065075	PP-1	223869	223869	DC-2	228688	228600	SL-4	229649	229649	PV-1
104263	283828	PP-1	223870	223870	LP-2	228729	229635	TW-1	229666	276269	TC-2
104264	286171	E-6	223988	223870	LP-2	228750	228750	LP-3	229686	276390	TC-2
104308	104308	E-6	224044	223870	LP-2	228762	225892	TW-3	229687	276390	TC-2
104309	104309	E-6	205000	205000	QRV	228843	228972	E	229690	229635	TW- I
104331	286171	E-6	224417	224417	QRV	228852	228429	E-1	229693	229635	TW-1
104345	104345	R-14H	224723	223870	LP-2	228853	228429	E-1	229732	229434	RE-4
104347	104348	TC-2	225318	229635	TW-1	228972	228972	E	229763	277863	E-3
104348	104348	TC-2	225346	226639	TW-3	229110	229434	RE-4	229793	225892	TW-3
104349	286171	E-6	225349	229635	TW-1	229200	229467	R-5	229800	229501	E-2
104357	275491	D-2	225375	229635	TW-1	229433	228429	E-1	229803	229434	RE-4
104358	104358	AD4CT	225433	229507	LQ-2	229434	229434	RE-4	229804	229434	RE-4
104427	286171	E-6	225604	229635	TW-1	229467	229467	R-5	229810	228729	TW-1
104474	104474	TW-11	225756	229635	TW-1	229483	229434	RE-4	229813	229813	QR-1
104475	104475	TW-11	225776	229635	TW-1	229493	229493	DS-1	229844	229844	QR-1
104504	229635	TW-1	225834	228972	E	229500	229500	E-2	229859	229859	QR-1
104532	276270	TC-2	225892	225892	TW-3	229501	229501	E-2	229860	229860	QR-1
104541	065077	HPP-1	226008	229612	TW-1	229505	229505	LQ-2	229932	229500	E-2
104543	275491	D-2	226262	226411	SL-3	229507	229507	LQ-2	229933	229500	E-2
104561	104561	R-12	226263	226411	SL-3	229509	229509	LQ-2	229937	228429	E-1
104574	103010	R-14H	226311	229635	TW-1	229523	229500	E-2	229989	229501	E-2
104588	286171	E-6	226411	226411	SL-3	229524	229501	E-2	229996	229501	E-2
104598	104598	BP-1	226498	226639	TW-3	229575	229434	RE-4	229999	229635	TW-1

OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
260303	229434	RE-4	275544	229501	E-2	276079	229500	E-2	276319	229467	R-5
275000	279501	E-2	275553	229501	E-2	276100	275491	D-2	276320	229467	R-5
275002	229501	E-2	275556	229501	E-2	276101	275491	D-2	276321	229467	R-5
275024	228750	LP-3	275646	275565	TC-2	276102	275491	D-2	276325	276325	R-5
275025	228477	TE-1	275707	275491	D-2	276103	275491	D-2	276330	276330	E-2
275042	276391	TC-2	275709	229501	E-2	276104	275491	D-2	276333	277863	E-3
275056	229501	E-2	275716	229501	E-2	276105	275491	D-2	276334	277863	E-3
275083	275083	LP-3	275719	226411	SL-3	276106	275491	D-2	276336	275491	D-2
275099	277863	E-3	275721	228165	DS-1	276107	275491	D-2	276362	277863	E-3
275100	229501	E-2	275739	276270	TC-2	276108	275491	D-2	276374	228050	DS-1
275102	229500	E-2	275740	229434	RE-4	276144	275491	D-2	276375	229493	DS-1
275103	229500	E-2	275741	277863	E-3	276145	229844	QR-1	276376	228520	DS-1
275107	276270	TC-2	275742	276272	TC-2	276149	228762	TW-3	276377	275153	DS-1
275108	229434	RE-4	275745	229434	RE-4	276153	229467	R-5	276380	275491	D-2
275146	229467	R-5	275746	276273	TC-2	276154	229467	R-5	276386	276272	TC-2
275147	229467	R-5	275748	229434	RE-4	276159	229635	TW-1	276390	276390	TC-2
275153	228520	DS-1	275782	276567	PP-1	276160	227672	TP-2	276391	276391	TC-2
275156	229501	E-2	275785	229467	R-5	276161	227661	TP-2	276397	229666	TC-2
275163	229434	RE-4	275790	276391	TC-2	276163	229434	RE-4	276411	276272	TC-2
275175	276566	PP-1	275791	276567	PP-1	276176	275491	D-2	276424	229635	TW-1
275176	276567	PP-1	275792	276462	PP-2	276177	229505	LQ-2	276441	229635	TW-1
275200	275491	D-2	275793	276462	PP-2	276178	229507	LQ-2	276442	229635	TW-1
275232	229501	E-2	275796	276567	PP-1	276179	229507	LQ-2	276455	276635	TW-4
275237	229501	E-2	275799	226411	SL-3	276181	229507	LQ-2	276462	276462	PP-2
275240	276330	E-2	275800	277446	RE-4	276182	277863	E-3	276463	276462	PP-2
275241	229501	E-2	275829	229635	TW-1	276185	276185	LP-3	276470	276272	TC-2
275242	277863	E-3	275844	276462	PP-2	276186	225892	TW-3	276479	229635	TW-1
275250	276462	PP-2	275845	229666	TC-2	276197	276270	TC-2	276480	229635	TW-1
275253	229635	TW-1	275861	275861	R-5	276201	228750	LP-3	276481	229635	TW-1
275263	277863	E-3	275862	229467	R-5	276202	226411	SL-3	276482	229635	TW-1
275265	277863	E-3	275866	229501	E-2	276209	229501	E-2	276483	229635	TW-1
275277	277863	E-3	275888	229501	E-2	276211	275509	TC-2	276484	229635	TW-1
275278	229467	R-5	275933	275491	D-2	276223	229505	LQ-2	276485	229635	TW-1
275281	277863	E-3	275953	276270	TC-2	276224	229507	LQ-2	276486	229635	TW-1
275343	229635	TW-1	275996	229467	R-5	276225	229509	LQ-2	276487	229635	TW-1
275344	229635	TW-1	276004	276566	PP-1	276226	275491	D-2	276488	229635	TW-1
275296	277863	E-3	276024	275491	D-2	276227	275491	D-2	276489	229635	TW-1
275313	229467	R-5	276025	275491	D-2	276228	275491	D-2	276490	229635	TW-1
275315	229434	RE-4	276026	275491	D-2	276229	275491	D-2	276491	229635	TW-1
275331	229501	E-2	276027	275491	D-2	276230	275491	D-2	276492	229635	TW-1
275345	229635	TW-1	276028	275491	D-2	276231	275491	D-2	276493	229635	TW-1
275346	229635	TW-1	276029	275491	D-2	276232	275491	D-2	276494	229635	TW-1
275347	229635	TW-1	276031	275491	D-2	276233	275491	D-2	276495	229635	TW-1
275359	229467	R-5	276032	275491	D-2	276234	275491	D-2	276496	229635	TW-1
275360	229434	RE-4	276033	275491	D-2	276262	280364	TC-2	276497	229635	TW-1
275361	229467	R-5	276034	275491	D-2	276263	275491	D-2	276498	229635	TW-1
275384	277863	E-3	276035	275491	D-2	276264	276567	PP-1	276499	229635	TW-1
275390	275390	TH-2	276036	275491	D-2	276269	276269	TC-2	276500	229635	TW-1
275400	229434	RE-4	276037	275491	D-2	276270	276270	TC-2	276501	229635	TW-1
275406	229501	E-2	276038	275491	D-2	276271	276271	TC-2	276502	229635	TW-1
275434	225892	TW-3	276039	275491	D-2	276272	276272	TC-2	276503	229635	TW-1
275468	229467	R-5	276040	275491	D-2	276273	276273	TC-2	276504	229635	TW-1
275491	275491	D-2	276041	275491	D-2	276274	276270	TC-2	276505	229635	TW-1
275503	229666	TC-2	276042	275491	D-2	276275	276275	TC-2	276506	229635	TW-1
275508	275491	D-2	276043	275491	D-2	276285	275491	D-2	276507	229635	TW-1
275509	276270	TC-2	276044	275491	D-2	276290	228600	SL-4	276508	229635	TW-1
275524	276330	E-2	276045	275491	D-2	276316	229467	R-5	276509	229635	TW-1
275527	229635	TW-1	276046	275491	D-2	276317	229467	R-5	276510	229635	TW-1
275530	275491	D-2	276048	275491	D-2	276318	229467	R-5	276511	229635	TW-1
275535	229635	TW-1	276049	275491	D-2	276319	229467	R-5	276512	229635	TW-1

OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
276513	229635	TW-1	276725	276272	TC-2	277186	277446	RE-4	277504	275491	D-2
276514	229635	TW-1	276728	276728	DS-1	277187	277446	RE-4	277505	275491	D-2
276520	276273	TC-2	276740	229434	RE-4	277188	277446	RE-4	277506	277491	D-2
276530	229635	TW-1	276767	276792	TC-2	277189	277446	RE-4	277507	275491	D-2
276532	276532	TW-1	276768	275509	TC-2	277191	275491	D-2	277508	275491	D-2
276533	229635	TW-1	276769	277863	E-3	277192	275491	D-2	277509	275491	D-2
276534	229635	TW-1	276779	228477	TE-1	277214	277214	RV-1	277510	275491	D-2
276535	229635	TW-1	276780	228477	TE-1	277215	277215	RV-1	277511	275491	D-2
276536	288375	TW-1	276781	276567	PP-1	277216	229467	R-5	277516	229635	TW-1
276537	229635	TW-1	276792	276792	TC-2	277222	277222	PR-2	277517	229635	TW-1
276538	276462	PP-2	276793	276793	TC-2	277223	277223	PR-2	277518	229635	TW-1
276553	275250	PP-2	276794	276792	TC-2	277224	277224	PR-2	277543	276793	TC-2
276554	275250	PP-2	276795	276793	TC-2	277225	277225	PR-2	277544	277544	RV-1
276555	275250	PP-2	276796	276792	TC-2	277226	277226	PR-2	277556	276566	PP-1
276556	275250	PP-2	276797	276793	TC-2	277227	277227	PR-2	277558	277558	RV-1
276557	275250	PP-2	276798	276792	TC-2	277239	275491	D-2	277559	277446	RE-4
276558	275250	PP-2	276799	276793	TC-2	277240	275491	D-2	277563	275153	DS-1
276562	276566	PP-1	276802	277863	E-3	277243	275491	D-2	277566	229467	R-5
276566	276566	PP-1	276804	276567	PP-1	277244	275491	D-2	277589	276569	PP-1
276567	276567	PP-1	276813	276269	TC-2	277245	226639	TW-3	277590	276569	PP-1
276568	276568	PP-1	276826	276269	TC-2	277257	277259	TC-2	277600	276793	TC-2
276569	276569	PP-1	276851	229467	R-5	277258	277259	TC-2	277601	276793	TC-2
276570	276566	PP-1	276852	229467	R-5	277259	277259	TC-2	277602	276793	TC-2
276571	276566	PP-1	276853	229467	R-5	277282	276566	PP-1	277618	275491	D-2
276572	276566	PP-1	276854	277340	TR-2	277283	275491	D-2	277619	275491	D-2
276573	276569	PP-1	276903	276269	TC-2	277284	275491	D-2	277620	275491	D-2
276574	276566	PP-1	276919	277863	E-3	277288	276269	TC-2	277621	277621	RV-1
276575	276566	PP-1	276923	229635	TW-1	277318	275250	PP-2	277627	275491	D-2
276576	276566	PP-1	276947	275491	D-2	277340	277340	TR-2	277638	276567	PP-1
276577	276566	PP-1	276997	276269	TC-2	277368	275535	TW-1	277648	275491	D-2
276578	276566	PP-1	276998	276269	TC-2	277390	277446	RE-4	277656	229467	R-5
276579	276566	PP-1	277003	277003	TW-1	277415	229635	TW-1	277663	276567	PP-1
276580	276566	PP-1	277015	276566	PP-1	277422	229434	RE-4	277699	229467	R-5
276581	276566	PP-1	277023	229501	E-2	277435	276270	TC-2	277702	229467	R-5
276582	276566	PP-1	277028	228477	TE-1	277425	226639	TW-3	277716	277765	TC-2
276583	276569	PP-1	277029	276566	PP-1	277444	277446	RE-4	277717	276567	PP-1
276588	276390	TC-2	277065	229666	TC-2	277445	277446	RE-4	277718	276567	PP-1
276589	276391	TC-2	277070	229501	E-2	277446	277446	RE-4	277725	228750	LP-3
276591	276390	TC-2	277072	276566	PP-1	277456	275524	E-2	277763	277763	QRV
276592	276390	TC-2	277081	277081	DS-1	277459	229467	R-5	277764	277765	TC-2
276593	276391	TC-2	277090	276566	PP-1	277472	229501	E-2	277765	277765	TC-2
276594	276391	TC-2	277091	276566	PP-1	277476	229467	R-5	277795	229666	TC-2
276595	276391	TC-2	277100	277101	TC-2	277481	276272	TC-2	277811	275491	D-2
276599	276599	LP-3	277101	277101	TC-2	277482	276272	TC-2	277812	275491	D-2
276635	276635	TW-4	277102	277104	TC-2	277484	275491	D-2	277863	277863	E-3
276689	227688	QRV	277114	275491	D-2	277485	283277	D-2	277891	277863	E-3
276701	276269	TC-2	277115	275491	D-2	277486	275491	D-2	277892	277863	E-3
276702	276270	TC-2	277129	281946	PP-5	277487	275491	D-2	277894	229467	R-5
276703	276269	TC-2	277131	275491	D-2	277488	275491	D-2	277897	276462	PP-2
276704	276270	TC-2	277139	229635	TW-1	277489	275491	D-2	277898	229493	DS-1
276707	276270	TC-2	277140	229635	TW-1	277490	275491	D-2	277922	276390	TC-2
276708	276272	TC-2	277141	229635	TW-1	277491	275491	D-2	277923	276390	TC-2
276709	276273	TC-2	277142	229635	TW-1	277492	275491	D-2	277939	229467	R-5
276710	276270	TC-2	277144	277144	RV-1	277493	275491	D-2	277953	228762	TW-3
276711	276275	TC-2	277147	277147	PR-2	277494	275491	D-2	277971	277971	PR-2
276712	229666	TC-2	277148	277148	PR-2	277495	275491	D-2	277974	229666	TC-2
276713	276272	TC-2	277155	228750	LP-3	277496	275491	D-2	277975	229666	TC-2
276714	276272	TC-2	277166	277166	TW-2	277497	275491	D-2	277976	205000	QRV
276715	276272	TC-2	277174	275491	D-2	277498	275491	D-2	277977	221992	QRV
276724	276272	TC-2	277185	277446	RE-4	277503	229434	RE-4	277980	223870	LP-2

OEM#	REMAN#	DEVICE
277988	277988	DC-4
277997	225892	TW-3
277998	276567	PP-1
277999	276567	PP-1
278345	225892	TW-3
278352	277863	E-3
278353	229467	R-5
278391	279416	LP-3
278417	276462	PP-2
278428	278450	PP-1
278434	229501	E-2
278440	275491	D-2
278444	277863	E-3
278450	278450	PP-1
278462	276462	PP-2
278479	278479	QR-1
278480	278480	QR-1
278481	278481	QR-1
278482	278482	QR-1
278483	278483	QR-1
278525	229635	TW-1
278564	229666	TC-2
278565	229666	TC-2
278570	276635	TW-4
278571	229501	E-2
278590	229635	TW-1
278595	278595	DC-4
278596	278596	DC-4
278597	278597	DC-4
278598	278598	DC-4
278599	278599	DC-4
278614	278614	DC-4
278615	278615	DC-4
278639	229501	E-2
278654	277863	E-3
278655	277863	E-3
278657	275491	D-2
278792	277863	E-3
278804	277863	E-3
278805	277863	E-3
278809	277863	E-3
278814	275491	D-2
278820	277446	RE-4
278821	288746	PP-3
278846	275491	D-2
278848	281946	PP-5
278891	277863	E-3
278913	278480	QR-1
278953	277863	E-3
278954	277863	E-3
278961	277863	E-3
278986	229505	LQ-2
278994	277863	E-3
278997	277863	E-3
278998	278998	E-3
279000	279000	TP-3
279014	277863	E-3
279015	279926	RV-1
279029	277863	E-3
279038	229500	E-2
279039	229501	E-2
279040	277863	E-3
279076	277863	E-3
279093	229635	TW-1
279094	229467	R-5
279140	279140	TC-2
279144	276567	PP-1
279159	288746	PP-3
279160	275491	D-2
279163	279163	SS-1
279164	279416	LP-3
279173	277863	E-3
279180	279180	R-6
279187	276269	TC-2
279221	275509	TC-2
279249	228729	TW-1
279269	276567	PP-1
279270	229666	TC-2
279273	277863	E-3
279281	229635	TW-1
279291	277446	RE-4
279322	279040	E-3
279339	277446	RE-4
279340	277101	TC-2
279341	277101	TC-2
279363	279040	E-3
279364	277863	E-3
279392	229635	TW-1
279394	279394	TC-2
279395	279395	TC-2
279405	277446	RE-4
279416	279416	LP-3
279417	276462	PP-2
279429	276567	PP-1
279468	276462	PP-2
279469	276567	PP-1
279472	279472	LP-3
279476	275491	D-2
279478	276567	PP-1
279505	279505	PR-2
279527	276270	TC-2
279529	280741	TC-2
279549	277446	RE-4
279579	288746	PP-3
279582	229467	R-5
279596	277863	E-3
279612	279612	TW-5
279637	277863	E-3
279639	276330	E-2
279640	276270	TC-2
279650	275491	D-2
279653	276272	TC-2
279657	277446	RE-4
279682	276269	TC-2
279684	277863	E-3
279692	279692	TP-3
279695	229467	R-5
279703	279703	R-5
279716	279716	RV-1
279730	279180	R-6
279731	279180	R-6
279739	279739	R-5
279750	279750	E-4
279752	279752	R-6
279757	279750	E-4
279761	276567	PP-I
279786	281587	PP-1
279787	279787	PP-3
279800	228762	TW-3
279801	229635	TW-1
279820	277863	E-3
279824	279824	SV-3
279831	276272	TC-2
279837	277863	E-3
279845	279845	TR-2
279855	229666	TC-2
279857	277863	E-3
279870	275491	D-2
279872	277863	E-3
279873	277863	E-3
279874	277863	E-3
279883	275509	TC-2
279886	278998	E-3
279888	279888	PV-1
279910	276635	TW-4
279919	277446	RE-4
279922	275509	TC-2
279926	279926	RV-1
279936	275509	TC-2
279937	275491	D-2
279939	276017	E-2
279950	279950	E-5
279951	279950	E-5
279952	279952	R-6
279963	226411	SL-4
279968	229635	TW-1
279969	229635	TW-I
279978	229635	TW-1
279982	275491	D-2
279983	229666	TC-2
279984	229666	TC-2
279985	229635	TW-1
279986	281865	RE-6
279998	279998	LQ-2
280021	280021	TC-2
280034	279950	E-5
280037	279750	E-4
280047	229501	E-3
280048	229666	TC-2
280049	205000	QR-V
280050	229501	E-2
280053	229501	E-2
280054	280054	E-2
280057	226411	SL-3
280059	229635	TW-1
280076	280076	QR-V
280079	280079	QR-V
280081	277863	E-3
280092	277340	TR-2
280093	276462	PP-2
280105	280105	QR-1
280110	280110	QR-1
280218	280651	R-6
280233	229635	TW-1
280234	229635	TW-1
280235	229635	TW-1
280240	275491	D-2
280243	280243	R-6
280244	280244	R-6
280245	280079	QR-V
280246	279750	E-4
280248	280248	TW-6
280277	229501	E-2
280278	229501	E-2
280311	276567	PP-1
280317	280317	TW-1
280327	225892	TW-3
280337	228750	LP-3
280349	277863	E-3
280364	280364	TC-2
280366	277516	TW-1
280375	280375	R-6
280376	275491	D-2
280399	276462	PP-2
280402	279472	LP-3
280427	277863	E-3
280439	229635	TW-1
280444	276269	TC-2
280454	280454	PP-2
280459	279750	E-4
280479	217698	DC-1
280480	226639	TW-3
280487	280488	TC-2
280488	280488	TC-2
280499	229635	TW-1
280530	279472	LP-3
280542	229467	R-5
280578	279750	E-4
280591	276635	TW-4
280592	276635	TW-4
280646	279950	E-5
280651	279952	R-6
280686	279472	LP-3
280688	279950	E-5
280707	229813	QR-1
280710	276567	PP-1
280723	288746	PP-3
280736	277863	E-3
280740	280770	TC-2
280741	280741	TC-2
280742	280742	TC-2
280743	228750	LP-3
280744	280744	LP-3
280751	277259	TC-2
280755	279750	E-4
280756	279750	E-4
280758	280758	TR-3
280759	280759	TC-2
280760	277863	E-3
280761	277863	E-3

OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
280762	278450	PP-1	281302	228050	DS-1	281760	275509	TC-2	282045	279950	E-5
280764	229635	TW-1	281303	228165	DS-1	281797	281797	TC-2	282046	276269	TC-2
280765	228813	QR-1	281304	228520	DS-1	281819	229509	LQ-2	282049	229635	TW-1
280770	280770	TC-2	281305	229493	DS-1	281820	229509	LQ-2	282051	275491	D-2
280773	277340	TR-2	281306	228166	DS-1	281822	277863	E-3	282052	279416	LP-3
280792	277446	RE-4	281307	275721	DS-1	281825	229635	TW-1	282053	229635	TW- 1
280793	277446	RE-4	281318	281318	TR-3	281830	279984	TC-2	282058	280905	TW-2
280809	280809	DC-4	281321	281321	QR-1	281831	281831	TW-2	282077	288746	PP-3
280810	280810	DS-1	281348	281348	E-3	281832	281832	R-6	282084	279950	E-5
280817	280995	PP-1	281350	277340	TR-3	281834	281834	R-6	282128	275491	D-2
280829	288746	PP-3	281352	281391	TW-3	281841	229635	TW-1	282255	282329	TW-3
280830	279000	P-3	281369	281369	TC-2	281842	229635	TW-1	282329	282329	TW-3
280863	279950	E-5	281375	275491	D-2	281843	229635	TW-1	282330	279750	E-4
280898	280904	TH-3	281376	281376	TC-2	281844	229635	TW-1	282331	282331	PE-4
280900	280904	TH-3	281380	281391	TW-3	281845	229635	TW-1	282332	276270	TC-2
280902	280902	TW-2	281388	279750	E-4	281846	229635	TW-1	282333	276270	TC-2
280903	280903	TW-2	281389	281440	TH-3	281847	229635	TW-1	282334	229666	TC-2
280904	280904	TH-3	281391	288264	TW-3	281848	229635	TW-1	282335	229666	TC-2
280905	280905	TW-2	281410	281410	TW-1	281849	229635	TW-1	282343	275491	D-2
280906	280906	TW-2	271411	281411	TW-1	281850	229635	TW-1	282346	282346	R-6
280914	280914	TH-3	281418	279750	E-4	281851	229635	TW-1	282347	280995	PP-1
280928	280928	TW-1	281423	279750	E-4	281852	229635	TW-1	282368	282368	TC-4
280930	288746	PP-3	281424	279750	E-4	281853	229635	TW-1	282369	279950	E-5
280931	229666	TC-2	281440	281440	TH-3	281854	229635	TW-1	282376	277765	TC-2
280932	279000	TP-3	281445	279750	E-4	281855	229635	TW-1	282379	229635	TW-1
280959	286211	RD-3	281457	277340	TR-2	281856	279750	E-4	282380	282381	TC-4
280994	277863	E-3	281458	281458	TW-1	281857	281857	RV-1	282381	282381	TC-4
280995	280995	PP-1	281459	281459	TR-3	281860	281865	RE-6	282382	282368	TC-4
281004	279950	E-5	281467	281467	PR-2	281861	281865	RE-6	282393	279950	E-5
281015	280914	TH-3	281473	279950	E-5	281862	281865	RE-6	282394	280904	TH-3
281024	281024	QR-1	281481	286211	RD-3	281863	281865	RE-6	282410	284760	E-7
281026	280914	TH-3	281510	279750	E-4	281864	281865	RE-6	282411	229813	QR-1
281053	280758	TR-3	281519	277446	RE-4	281865	218865	RE-6	282412	283931	TC-2
281058	275491	D-2	281560	281560	TH-3	281866	281865	RE-6	282418	277863	E-3
281069	279950	E-5	281561	281561	LQ-2	281868	281865	RE-6	282423	275491	D-2
281096	281096	TW-1	281563	281563	TW-1	281869	281865	RE-6	282433	277340	TR-2
281100	229501	E-2	281571	279750	E-4	281870	281865	RE-6	282436	275491	D-2
281106	281106	TC-2	281572	279750	E-4	281875	279040	E-3	282443	279950	E-5
281107	281107	TC-2	281574	279750	E-4	281880	281880	QR-1	282448	279950	E-5
281108	281108	TC-2	281575	279750	E-4	281884	275491	D-2	282454	276462	PP-2
281132	281132	TH-3	281577	280651	R-6	281892	275509	TC-2	282472	282472	SV-1
281133	281132	TH-3	281587	281587	PP-1	281899	279950	E-5	282499	282499	PP-1
281136	279750	E-4	281604	281560	TH-3	281904	279750	E-4	282500	282499	PP-1
281137	275491	D-2	281620	281620	PE-4	281905	280317	TW-1	282510	276567	PP-1
281139	281139	TW-1	281638	277446	RE-4	281908	281908	R-6	282512	275491	D-2
281149	277863	E-3	281645	279950	E-5	281923	281923	DV-2	282517	282517	PR-2
281159	279950	E-5	281647	280651	R-6	281924	281924	DV-2	282524	276270	TC-2
281178	282541	E-3	281662	277446	RE-4	281927	281927	TR-3	282541	282541	E-3
281182	281182	R-6	281672	281865	RE-6	281931	279950	E-5	282553	277340	TR-2
281191	276462	PP-2	281679	228750	LP-3	281939	284777	TC-2	282558	282558	PE-4
281205	275491	D-2	281706	276272	TC-2	281943	282750	LP-3	282569	281923	DV-2
281206	281206	TW-2	281711	281865	RE-6	281946	281946	PP-5	282574	282499	PP-1
281208	281206	TW-2	281735	280744	LP-3	281947	281946	PP-5	282575	229635	TW-I
281215	275491	D-2	281736	228477	TE-2	281948	281946	PP-5	282584	283827	PP-1
281219	277863	E-3	281737	229635	TW-1	281959	277863	E-3	282782	229859	QR-1
281262	281262	SV-1	281738	229635	TW-1	281976	229635	TW-1	282808	275509	TC-2
281273	276462	PP-2	281739	229635	TW-1	282008	284687	TC-2	282811	282811	RV-1
281278	277863	E-3	281740	229635	TW-1	282009	229635	TW-1	282818	275509	TC-2
281287	277863	E-3	281741	229635	TW-1	282038	277863	E-3	282839	282839	TW-
281289	281560	TH-3	281752	279750	E-4	282043	275491	D-2	282840	282840	E-2

OEM#	REMAN#	DEVICE
282848	282848	TW-1
282855	279750	E-4
282856	279750	E-4
282871	229844	QR-1
282905	276390	TC-2
282909	282909	LQ-2
282919	276390	TC-2
282937	276462	PP-2
282978	275491	D-2
282980	275491	D-2
282983	277544	RV-1
282995	283931	TC-2
282996	283931	TC-2
282998	228750	LP-3
283008	284687	TC-2
283011	281923	DV-2
283012	228600	SL-4
283013	279950	E-5
283014	279950	E-5
283022	229635	TW-1
283028	283028	DS-1
283029	228750	LP-3
283030	279416	LP-3
283033	283033	R-6
283034	281865	RE-6
283036	283932	R-7
283038	277148	PR-2
283039	288301	TP-4
283040	283040	TW-3
283041	229635	TW-1
283042	283081	TH-3
283043	283937	TW-3
283044	229635	TW-1
283051	288746	PP-3
283073	229635	TW-1
283074	283074	TW-1
283081	283081	TH-3
283082	275491	D-2
283086	283940	R-6
283090	283090	TP-2
283174	281923	DV-2
283277	276233	D-2
283295	281865	RE-6
283296	228429	E-1
283297	277765	TC-2
283298	286774	E-7
283300	284760	E-7
283301	284760	E-7
283321	278614	DC-4
283322	279750	E-4
283347	281923	DV-2
283349	275491	D-2
283409	277863	E-3
283412	283412	QR-1
283413	229859	QR-1
283422	285654	TC-2
283477	276728	DS-1
283483	277863	E-3
283491	277863	E-3
283525	229509	LQ-2

OEM#	REMAN#	DEVICE
283590	277214	RV-1
283593	275491	D-2
283594	275491	D-2
283595	275491	D-2
283596	275491	D-2
283654	283654	TW-1
283657	275491	D-2
283700	283700	SV-1
283708	275083	LP-3
283738	228050	DS-1
283739	228165	DS-1
283745	283745	ST-1
283793	279416	LP-3
283817	281924	DV-2
283827	283827	PP-1
283828	283828	PP-1
283829	283828	PP-1
283834	279416	LP-3
283846	279750	E-4
283853	277863	E-3
283857	282346	R-6
283864	286773	E-7
283866	286774	E-7
283867	280364	TC-2
283927	229501	E-2
283930	229813	QR-1
283931	283931	TC-2
283932	103081	R-7
283933	283933	PR-2
283934	288301	TP-4
283935	283935	TW-3
283936	283936	TW-1
283937	283937	TW-3
283938	283938	TW-1
283940	283940	R-6
283941	229859	QR-1
283949	279416	LP-3
283958	283958	TW-1
283959	283936	TW-1
283985	229635	TW-1
284031	229635	TW-1
284039	277340	TR-2
284045	229635	TW-1
284060	282499	PP-1
284062	279950	E-5
284064	279950	E-5
284066	284066	TC-2
284103	281865	RE-6
284123	281865	RE-6
284146	280758	TR-3
284147	275083	LP-3
284157	277214	RV-1
284170	288746	PP-3
284171	276567	PP-1
284174	284174	TW-2
284175	284175	TW-2
284276	275491	D-2
284280	284280	RE-6
284284	229501	E-2
284286	286211	RD-3

OEM#	REMAN#	DEVICE
284291	282368	TC-4
284312	275491	D-2
284348	279180	R-6
284350	284760	E-7
284354	279750	E-4
284357	276567	PP-1
284358	284358	D-2
284387	288746	PP-3
284408	280914	TH-3
284412	284412	DV-2
284636	275491	D-2
284654	284654	TC-2
284667	275491	D-2
284677	284685	TC-2
284685	284685	TC-2
284687	284687	TC-2
284688	284760	E-7
284713	275491	D-2
284726	276567	PP-1
284727	286211	RD-3
284728	276567	PP-1
284729	276462	PP-2
284730	288746	PP-3
284741	284741	QRV
284742	284741	QRV
284744	284744	PP-5
284760	284760	E-7
284771	277863	E-3
284777	284777	RC-2
284778	284778	TC-2
284779	284779	TC-2
284780	284777	TC-2
284781	284778	TC-2
284782	284779	TC-2
284784	286211	RD-1
284785	276567	PP-1
284786	288746	PP-3
284793	275-83	LP-3
284794	228750	LP-3
284795	284795	DV-2
284815	286773	E-7
284817	284412	DV-2
284818	284412	DV-2
284833	275083	LP-3
284834	276462	PP-2
284835	286211	RD-3
284836	288746	PP-3
284837	284837	TW-1
284838	281946	PP-5
284839	284839	E-3
284860	283828	PP-1
284861	284861	TC-2
284892	284892	R-6
284895	288746	PP-3
284900	228600	SL-4
284922	229859	QR-1
284923	276567	PP-1
284949	278825	SV-1
284962	284962	R-6
285095	279950	E-5

OEM#	REMAN#	DEVICE
285097	275491	D-2
285098	275491	D-2
285106	276270	TC-2
285146	284760	E-7
285147	284760	E-7
285148	279950	E-5
285171	285171	DC-4
285180	285180	DC-4
285197	228750	LP-3
285236	285236	QRV
285273	229635	TW-1
285290	281865	RE-6
285308	285310	TC-2
285310	285310	TC-2
285318	285318	R-6
285324	285389	PP-1
285338	285338	TW-2
285356	276462	PP-2
285357	276270	TC-2
285389	285389	PP-1
285443	275491	D-2
285470	279180	R-6
285507	276272	TC-2
285514	283827	PP-1
285518	285518	DV-2
285526	275083	LP-3
285527	228750	LP-3
285531	229813	QR-1
285532	228600	SL-4
285533	277214	RV-1
285537	277146	PR-2
285539	277222	PR-2
285540	282133	PR-2
285541	277227	PR-2
285542	278597	DC-4
285545	276462	PP-2
285546	277340	TR-2
285548	285548	R-6
285549	277340	TR-2
285551	285551	PE-4
285552	281923	DV-2
285553	281865	RE-6
285554	277446	RE-4
285559	228803	TH-2
285561	275491	D-2
285562	275491	D-2
285563	229813	QRV
285565	277863	E-3
285566	226639	TW-3
285567	229635	TW-I
285568	229635	TW-I
285569	279750	E-4
285570	229501	E-2
285624	276272	TC-2
285628	276567	PP-1
285629	276567	PP-1
285645	228477	TE-1
285676	281004	E-5
285679	277863	E-3
285683	285683	DC-4

OEM#	REMAN#	DEVICE
285691	275491	D-2
285708	281865	RE-6
285745	286774	E-7
285775	279716	RV-1
285805	284654	TC-2
285819	276567	PP-1
285820	276272	TC-2
285821	285821	TC-2
285833	276462	PP-2
285843	276272	TC-2
285848	223870	LP-2
285857	285857	TC-2
285858	285857	TC-2
285887	279984	TC-2
285931	276330	E-3
285936	229635	TW-1
285999	275491	D-2
286045	279950	E-5
286046	279950	E-5
286047	277863	E-3
286049	279950	E-5
286083	279950	E-5
286084	279950	E-5
286089	276567	PP-I
286092	103937	TC-2
286093	286093	TR-3
286099	279950	E-5
286100	279950	E-5
286101	103936	TC-2
286132	285389	PP-1
286152	229635	TW-1
286155	276330	E-3
286164	286164	TC-2
286171	286171	E-6
286173	286171	E-6
286187	286210	TC-2
286188	286188	TC-2
286195	286195	R-7
286197	279950	E-5
286198	279950	E-5
286202	279950	E-5
296205	279950	TC-2
286208	279750	E-4
286210	286210	TC-2
286211	286211	RD-3
286234	275509	TC-2
286236	286236	TC-2
286241	277340	TR-3
286244	279472	LP-3
286289	286289	LQ-3
286364	286364	SR-1
286365	286365	SR-1
286370	286370	R-8
286371	286371	R-8
286395	286395	DS-2
286414	278614	DC-4
286415	286415	DS-2
286416	286416	DS-2
286431	286431	DC-1
286433	286433	R-6
286445	286445	DS-2
286446	286446	DS-2
286447	286447	DS-2
286448	286448	DS-2
286449	286449	DS-2
286450	286450	DS-2
286451	286451	DS-2
286452	286452	DS-2
286453	286453	DS-2
286460	286460	PR-3
286476	276270	TC-2
286486	229635	TW-1
286487	286487	R-6
286490	276270	TC-2
286500	286500	PR-4
286502	276270	TC-2
286512	286512	LP-3
286516	286171	E-6
286519	286519	TW-2
286524	279750	E-4
286648	229860	QR-1
286665	281924	DV-2
288666	275083	LP-3
286677	229859	QR-1
286681	276270	TC-2
286682	287276	LQ-3
286686	229635	TW-1
286687	229635	TW-1
286688	229635	TW-1
286689	286171	E-6
286698	228672	TW-3
286699	286774	E-7
286700	277863	E-3
286704	286704	DS-2
286706	288239	PP-7
286710	277863	E-3
286711	288383	E-7
286712	288383	E-7
286713	288383	E-7
286714	288383	E-7
286743	286743	TW-1
286749	286826	TC-2
286768	286768	TC-2
286770	286768	TC-2
286771	284760	E-7
286773	286773	E-7
286774	286774	E-7
286775	286775	E-7
286786	276273	TC-2
286787	275509	TC-2
286820	278450	PP-1
286826	286826	TC-2
286830	279984	TC-2
286833	284654	TC-2
286834	286364	SR-1
286844	229467	R-5
286865	275509	TC-2
286875	286875	AD2EC
286876	286876	AD2EC
286880	286171	E-6
286889	288239	PP-7
286890	286171	E-6
286891	286289	LQ-3
286892	286371	R-8
286893	286364	SR-1
286894	286704	DS-2
286895	286171	E-6
286896	286171	E-6
286898	286773	E-7
286899	287564	E-7
286900	287564	E-7
286901	286901	E-7
286903	286500	PR-4
286912	286912	TC-2
286927	279950	E-5
286930	286934	AD-2
286931	286934	AD-2
286932	286936	AD-2
286933	286936	AD-2
286934	286934	AD-2
286935	286934	AD-2
286936	286936	AD-2
286937	286936	AS-2
286939	286934	AD-2
286954	286934	AD-2
286960	286960	AD-2
286961	286961	AD-2
286962	286960	AD-2
286980	280995	PP-1
287014	287015	PP-1
287015	287015	PP-1
287017	286171	E-6
287023	279750	E-5
287039	287272	E-6
287046	288240	PP-7
287049	288239	PP-7
287050	288301	TP-4
287051	288301	TP-4
287054	276567	PP-1
287055	276462	PP-2
287056	288746	PP-3
287068	286171	E-6
287073	287073	E-7
287078	286171	E-6
287084	287260	R-8
287085	287260	R-8
287088	286171	E-6
287089	286171	E-6
287097	286171	E-6
287114	287114	R-8P
287120	287120	TC-2
287121	287195	TC-2
287122	287122	TW-3
287124	287564	E-7
287125	287564	E-7
287127	287127	E-7
287128	286826	TC-2
287130	288239	PP-7
287133	229501	E-2
287135	279950	E-5
287137	287137	TC-2
287150	287073	E-7
287155	281587	PP-1
287166	284760	E-7
287176	284760	E-7
287178	285683	DC-4
287181	278614	DC-4
287187	287276	LQ-3
287192	279416	LP-3
287195	287195	TC-2
287224	287260	R-8
287230	287238	PP-8
287231	287238	PP-8
287234	287240	PP-8
287235	287238	PP-8
287236	287240	PP-8
287238	287238	PP-8
287240	287240	PP-8
287251	288241	PP-7
287252	286364	SR-1
287253	287276	LQ-3
287254	287411	E-7
287255	286171	E-6
287256	287418	PP-8
287257	287417	PP-1
287259	288242	PP-7
287260	287260	R-8
287261	287334	TW-2
287272	287272	E-6
287276	287276	LQ-3
287277	286371	R-8
287278	286364	SR-1
287279	286289	LQ-3
287280	288721	PP-7
287282	288241	PP-7
287287	286704	DS-2
287288	286171	E-6
287289	286171	E-6
287290	286171	E-6
287291	288383	E-7
287307	275491	D-2
287308	275491	D-2
287309	275491	D-2
287313	101900	AD2CT
287325	287600	PP-1
287334	287334	TW-2
287335	289377	E-6
287347	286370	R-8
287372	286453	DS-2
287375	287376	SR-2
287376	287376	SR-2
287379	276567	PP-1
287395	287440	E-7
287396	287440	E-7
287407	287411	E-7
287408	287411	E-7
287411	287411	E-7
287417	287417	PP-1
287418	287418	PP-8
287421	287421	R-8

OEM#	REMAN#	DEVICE
287422	275491	D-2
287423	275491	D-2
287424	275491	D-2
287425	275491	D-2
287426	275491	D-2
287427	275491	D-2
287428	275491	D-2
287429	277863	E-3
287437	286171	E-6
287438	287438	TW-2
287440	287440	E-7
287499	229666	TC-2
287500	229666	TC-2
287501	287440	E-7
287515	283828	PP-1
287516	286171	E-6
287519	286960	AD-2
287520	287520	LQ-2
287564	287564	E-7
287567	287238	PP-8
287600	287600	PP-1
287611	287611	E-7
287620	283828	PP-1
287626	287626	DC-4
287627	287627	DC-4
287628	287614	DC-4
287635	281262	SV-1
287637	287637	PP-1
287693	288267	E-7
287738	287411	E-7
287759	287259	TR-3
287760	287760	E-7
287771	286171	E-6
287772	286171	E-6
287773	286171	E-6
287782	286171	E-6
287787	286289	LQ-3
287788	287788	SR-3
287790	275491	D-2
287791	287791	TW-1
287794	275491	D-2
287799	229635	TW- 1
287827	286500	PR-4
287844	228729	TW-1
287855	287856	E-7
287856	287856	E-7
287859	286171	E-6
287986	287238	PP-8
287987	278450	PP-1
288005	287417	PP-1
288006	287600	PP-1
288007	288241	PP-7
288008	287418	PP-8
288038	288038	E-7
288047	275491	D-2
288050	229860	QR-1
288051	288051	ST-3
288052	229635	TW-1
288055	279000	TP-3
288056	288237	TC-2
288057	286453	DS-2
288058	229635	TW-1
288059	286934	AD-2
288063	288063	SR-1
288065	288236	TC-2
288069	288069	TW-1
288080	228600	SL-4
288084	279926	RV-1
288095	286775	E-7
288221	286370	R-8
288236	288236	TC-2
288237	288237	TC-2
288239	288239	PP-7
288240	288240	PP-7
288241	288241	PP-7
288242	287259	PP-7
288245	277863	E-3
288246	286171	E-6
288251	288251	QR-1
288253	282472	SV-1
288259	287282	PP-7
288263	288263	TW-3
288264	288263	TW-3
288267	288267	E-7
288268	288269	E-7
288269	288269	E-7
288274	286171	E-6
288276	281391	TW-3
288287	289153	LQ-3
288295	288301	TP-4
288296	275491	D-2
288299	286289	LQ-3
288301	288301	TP-4
288312	286171	E-6
288319	288319	E-7
288321	286171	E-6
288322	286171	E-6
288323	288323	PR-4
288325	279950	E-5
288334	278615	DC-4
288352	286171	E-6
288356	276269	TC-2
288369	286370	R-8
288374	229635	TW-1
288375	229635	TW-1
288377	288378	E-7
288378	288378	E-7
288383	288383	E-7
288386	286289	LQ-3
288397	277144	RV-1
288416	287276	LQ-3
288417	288417	LQ-3
288424	286171	E-6
288429	285389	PP-1
288430	285389	PP-1
288463	288239	PP-7
288476	288476	QR-1
288497	288497	SR-2
288513	288383	E-7
288527	287073	E-7
288532	286289	LQ-3
288577	276567	PP-1
288586	288586	TR-3
288595	286936	AD-2
288597	288597	PP-1
288605	288605	TP-5
288625	288625	TR-3
288643	288239	PP-7
288644	288239	PP-7
288645	288645	VM-3
288650	287238	PP-8
288652	288652	TC-2
288668	288605	TP-5
288671	288671	SV-1
288684	284066	TC-2
288707	288707	TW-1
288717	286171	E-6
288719	286961	AD-2
288721	288721	PP-7
288722	285289	LQ-3
288723	288723	SR-1
288724	281865	RE-6
288737	288737	TC-2
288746	288746	PP-3
288755	288755	R-8
288770	286171	E-6
288773	276567	PP-1
288774	286171	E-6
288777	288383	E-7
288779	287440	E-7
288781	288781	R-8
288782	286289	LQ-3
288783	284412	DV-2
288858	275491	D-2
288860	278450	PP-1
288861	288383	E-7
288862	288383	E-7
288863	288383	E-7
288900	286370	R-8
288948	288383	E-7
288988	229635	TW-1
288999	286370	R-8
289034	276566	PP-1
289042	229813	QR-1
289045	289045	QR-1
289054	279950	E-5
289060	101786	TC-6
289086	286171	E-6
289089	289157	LQ-3
289090	287238	PP-8
289098	286171	E-6
289100	286171	E-6
289101	286171	E-6
289102	286171	E-6
289103	289380	E-6
289106	289380	E-6
289120	288239	PP-7
289124	289124	QR-1
289128	286171	E-6
289129	289380	E-6
289140	289182	QR-1
289144	289144	LQ-4
289145	289145	LQ-4
289146	289146	LQ-4
289147	289147	LQ-4
289148	289148	LQ-4
289149	289149	LQ-4
289150	289150	LQ-4
289151	289151	LQ-4
289152	289152	LQ-4
289153	289153	LQ-4
289154	289151	LQ-3
289155	289155	LQ-3
289157	289157	LQ-3
289182	289182	QR-1C
289223	288237	TC-2
289253	288605	TP-5
289256	229635	TW-1
289259	289259	PP-8
289260	289259	PP-8
289288	280758	TR-3
289296	289296	DC-4
289299	286936	AD-2
289309	065075	PP-1
289310	065075	PP-1
289374	286936	AD-2
289377	286171	E-6
289380	289380	E-6
289390	286171	E-6
289395	287260	R-8
289398	282840	E-2
289442	286370	R-8
289476	289960	AD-2
289477	289477	PP-3
289478	286171	E-6
289479	286171	E-6
289480	286171	E-6
289481	275491	D-2
289487	289487	ST-3
289490	288383	E-7
289505	289380	E-6
289512	289512	PP-3
289521	229635	TW-1
289522	229635	TW-1
289525	289525	QR-I
289530	275491	D-2
289543	280995	PP-1
289544	286171	E-6
289547	289547	DC-4
289592	288652	TC-2
289595	286171	E-6
289596	289596	R-6
289607	276567	PP-1
289627	277863	E-3
289665	289665	R-6
289666	289666	TC-2
289669	286934	AD-2
289672	277765	TC-2
289686	289686	QR-1
289714	289714	QR-1C

OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
289721	284839	E-2	289953	288652	TC-2						
289750	288652	TC-2	289954	276569	PP-1						
289782	229500	E-2	289967	275491	D-2						
289794	286370	R-8	289968	289888	E-9						
289795	286370	R-8	289973	287137	TC-2						
289796	289796	DV-2	289976	281924	DV-2						
289799	276567	PP-1	289997	288239	PP-7						
289808	286171	E-6	289999	281865	RE-6						
289842	229501	E-2	485507	276272	TC-2						
289845	289845	TC-2	776779	228477	TE-1						
289846	289845	TC-2									
289849	289849	LQ-4									
289862	282499	PP-1									
289874	289874	DS-2									
289888	289888	E-9									
289913	289913	TW-2									
289914	289914	TW-2									
289938	289938	R-6									

Midland Valves and Other Devices

The following listing is for Midland valves and other devices only. It is a numerical listing that includes all popular valve part numbers that were available for reference as of the date of publication. The first column refers to the Midland original equipment part number. The second column is the part number that is used in the aftermarket as the remanufactured replacement. The last column lists the type of device each part number represents.

OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
12000	KN24000	Drain	N13440DJ	KN20001	Hand	N4302B	KN26000	RT4	N15817V	KN31050	Reg
12010	KN24001	Drain	N13440DK	KN20001	Hand	N4302C	KN26000	RT4	N15844	KN27200	Level
3155900	12360	Task	N13440DL	KN20001	Hand	N4400	KN20615	Hand	N15902A	KN31170	PrProw 1-wayck
A104001	KN26000	RT4	N13440DS	KN20001	Hand	N4400A	KN20611	Hand	N15902b	KN31171	PrProw 1-wayck
A 104010	KN26010	RT4	N13440DD	KN20041	Hand	N4400B	KN20612	Hand	N20404A	KN27000	Level
A46229	KN30100	RE	N13440DF	KN20041	Hand	N13680BL	KN31080	Reg	N20404B	KN27000	Level
A71890	KN30300	RE	N13440DC	N13440DC	Hand	N13680BZ	N13680BZ	Reg	N20404C	KN27000	Level
A71891	KN30200	RE	N13440DE	N13440DE	Hand	N14488AE	KN20010	PP	N20404D	KN27000	Level
A99036	KN30400	RE	N13440DN	N13440DN	Hand	N14488AK	KN20020	PP	N20404E	KN27000	Level
AD83034	A83034	PP	N13440DR	N13440DR	Hand	N14488R	KN20010	PP	N20404K	KN27000	Level
AD83580	A83580	PP	N13440DW	N13440DW	Hand	N14488W	KN20020	PP	N20404L	KN27000	Level
AD87490	A87490	PP	N13440FA	KN20700	Hand	N15736AD	KN31080	Reg	N20404T	KN27000	Level
AE78880	KN28500	RG2	N13440FB	KN20700	Hand	N15759	KN31000	PrPro	N20404F	N20404F	Level
AE78882	KN28510	RG2	N13526AG	KN23010	1-way chk	N15759DB	KN31000	PrPro	N20404G	N20404G	Level
AE78886	KN28500	RG2	N13526AJ	KN23000	1-way chk	N15759DC	KN31000	PrPro	N20404H	N20404H	Level
AE78887	KN28520	RG2	N13526AX	N13526AX	1-way chk	N15759DF	KN31000	PrPro	N20404J	N20404J	Level
AE78889	KN28510	RG2	N13526BB	N13526BB	1-way chk	N15759DJ	KN31000	PrPro	N20404M	N20404M	Level
AE86310	KN28500	RG2	N13526BE	N13526BE	1-way chk	N15759DD	KN31010	PrPro	N20404N	N20404N	Level
AE86311	KN28500	RG2	N13526BK	KN2300D	1-way chk	N15759DL	KN31010	PrPro	N20404P	N20404P	Level
AE86313	KN28500	RG2	N13526BL	KN23060	1-way chk	N15759DA	N15759DA	PrPro	N20404R	N20404R	Level
AE86314	KN28510	RG2	N13526D	N13526D	1-way chk	N15759DH	N15759DH	PrPro	N20404S	N20404S	Level
AE86318	KN28510	RG2	N13526H	N13526H	1-way chk	N15759EA	N15759EA	PrPro	N20404V	N20404V	Level
AF103600	A103600	Rel	N13526J	KN23040	1-way chk	N15760G	KN20061	Hand	N20404AA	N20404AA	Level
AF104001	KN26000	RT4	N13526Z	KN23020	1-way chk	N15791D	KN20080	Hand	N20404AB	N20404AB	Level
AF104002	KN26000	RT4	N13680BD	N13680BD	Reg	N15791F	KN20090	Hand	N20404AC	N20404AC	Level
AF104003	KN26000	RT4	N13680BK	N13680BK	Reg	N15791H	N15791H	Hand	N20404AD	N20404AD	Level
AF104010	KN26010	RT4	N13680BN	N13680BN	Reg	N15791J	KN20110	Hand	N20404AE	KN27014	Level
AF85490	A85490	Rel	N4301	KN30100	RE	N15791R	N15791R	Hand	N20404AF	N20404AF	Level
AF86472	A86472	Rel	N4301 A	KN30100	RE	N15791T	N15791T	Hand	N20404AG	KN27013	Level
AF86473	A86473	Rel	N4301 AA	KN30300	RE	N15791V	N15791V	Hand	N20404AH	KN27013	Level
AF86477	A86477	Rel	N4301 AB	KN30200	RE	N15817A	N15817A	Reg	N20404AJ	KN27013	Level
N10044K	KN31070	Reg	N4301 AC	KN30200	RE	N15817E	KN31050	Reg	N20404AK	KN27013	Level
N13440DA	KN20001	Hand	N4301 BA	KN30200	RE	N15817F	KN31050	Reg	N20669B	KN32030	LQR
N13440DB	KN20001	Hand	N4301 CB	KN30400	RE	N15817G	KN31050	Reg	N20837	KN22100	Foot
N13440DG	KN20001	Hand	N4302A	KN26000	RT4	N15817K	KN31060	Reg	N20837B	KN22100	Foot
N13440DH	KN20001	Hand	N4302AA	KN26010	RT4	N15817M	KN31060	Reg	N20837C	KN22100	Foot

OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE	OEM#	REMAN#	DEVICE
N20837J	KN22100	Foot	N20966C	KN25110	2-way chk	N30105F	KN20071	Hand	N30190AJ	KN18530	Gov
N20837N	KN22100	Foot	N20966F	KN25110	2-way chk	N30106C	N30106C	Rel	N30190B	KN18530	Gov
N20878A	KN24000	Drain	N20966D	KN25120	2-way chk	N30106D	KN28132	Rel	N30190C	KN18530	Gov
N20878B	KN24000	Drain	N20966E	KN25120	2-way chk	N30106F	KN28131	Rel	N30190CA	KN18534	Gov
N20878C	KN24000	Drain	N20966J	KN25120	2-way chk	N30107BA	KN20551	Hand	N30190DA	KN18532	Gov
N20878D	KN24000	Drain	N20966M	KN25120	2-way chk	N30107BB	KN20552	Hand	N30190DE	KN18532	Gov
N20878E	KN24000	Drain	N20966N	KN25120	2-way chk	N30107BC	KN20551	Hand	N30190DF	KN18532	Gov
N20878F	KN24000	Drain	N20966T	KN25120	2-way chk	N30107BD	KN20552	Hand	N30190FC	KN18530	Gov
N20878G	KN24000	Drain	N20966G	KN25100	2-way chk	N30107BE	KN20551	Hand	N30190G	KN18531	Gov
N20878H	KN24000	Drain	N30072EB	KN22500	Foot	N30108AA	KN28500	RG2	N30190H	KN18531	Gov
N20878J	KN24000	Drain	N30072ED	KN22520	Foot	N30108AB	KN28510	RG2	N30190J	N18530	Gov
N20878K	KN24000	Drain	N30072EE	KN22510	Foot	N30108AC	KN28510	RG2	N30190K	KN18530	Gov
N20878L	KN24000	Drain	N30072FA	KN22600	Foot	N30108AD	KN28500	RG2	N30190L	KN18530	Gov
N20878M	KN24000	Drain	N30072FB	KN22620	Foot	N30108AE	KN28500	RG2	N30190M	KN18530	Gov
N20878N	KN24000	Drain	N30072FC	KN22610	Foot	N30108AF	KN28500	RG2	N30190N	KN18530	Gov
N20878P	KN24000	Drain	N30072GA	KN22511	Foot	N30108AG	KN28500	RG2	N30190S	KN18530	Gov
N20879A	KN24001	Drain	N30072GB	KN22521	Foot	N30108AH	KN28520	RG2	N30190W	KN18530	Gov
N20879B	KN24001	Drain	N30072GC	KN22501	Foot	N30108AJ	KN28500	RG2	N30190Y	KN18530	Gov
N20879C	KN24001	Drain	N30073FB	KN34030	TrPro	N30108AK	KN28510	RG2	N3099BA	KN22140	Foot
N20879D	KN24001	Drain	N30073GA	KN34050	TrPro	N30108AL	KN28500	RG2	N3099BB	KN22140	Foot
N20879E	KN24001	Drain	N30073GB	KN34030	TrPro	N30108AM	KN28531	RG2	N3099BC	KN22140	Foot
N20879G	KN24001	Drain	N30073GC	KN34070	TrPro	N30108BA	KN28500	RG2	N31440DA	KN20001	Hand
N20879H	KN24001	Drain	N30073GK	KN34050	TrPro	N30108BB	KN28500	RG2	N31440DG	KN20001	Hand
N20879J	KN24001	Drain	N30096E	KN28060	Rel	N30108BC	KN28500	RG2	N31440DH	KN20001	Hand
N20879K	KN24001	Drain	N30096F	KN28060	Rel	N30108BD	KN28531	RG2	N31440DJ	KN20001	Hand
N20928CG	KN20033	PP	N30096J	KN28061	Rel	N30108BE	KN28531	RG2	N31440DK	KN20001	Hand
N20928CH	KN20033	PP	N30096L	KN28061	Rel	N30108BF	KN28520	RG2	N31440DL	KN20001	Hand
N20928CK	KN20031	PP	N30096M	KN28060	Rel	N30108BG	KN28500	RG2	N31440DP	KN20001	Hand
N20928CL	KN20031	PP	N30096N	KN28080	Rel	N30108BH	KN28531	RG2	N31440DS	KN20001	Hand
N20928CM	KN20031	PP	N30096P	KN28085	Rel	N30108BK	KN28510	RG2	N31440DF	KN20041	Hand
N20928CN	KN20031	PP	N30096PA	KN28300	FAB	N30108BL	KN28510	RG2	N4304	KN28600	FFV
N20928CP	KN20031	PP	N30099BA	KN22140	Foot	N30110A	KN28550	RG5	N4304A	KN28601	FFV
N20949AA	KN34060	TrPro	N30099BB	KN22140	Foot	N30110	N30110	RG5	N4304B	KN28602	FFV
N20949CA	KN34060	TrPro	N30099BC	KN22140	Foot	N30110BA	KN28551	RG5	N4304C	KN28603	FFV
N20949CF	KN34061	TrPro	N30099JA	KN22150	Foot	N30161AH	KN20561	Hand	N4304AB	KN28601	FF2
N20950AA	KN28030	INV	N30099JB	KN22150	Foot	N30161AJ	KN20562	Hand	N4304AC	KN28600	FF2
N20952AB	KN32040	QRDC	N30099JF	KN22151	Foot	N30161AK	KN20561	Hand	N4304AD	KN28603	FF2
N20952AC	KN32040	QRDC	N30100AD	KN28071	Rel	N30162AB	KN34090	TrPro	N4304AE	KN28602	FF2
N20952AD	KN32041	QRDC	N30100AG	KN28140	Rel	N30162AB	KN34110	TrPro			
N20952AE	KN32041	QRDC	N30100AR	KN28065	Rel	N30162GA	KN34090	TrPro			
N20954A	KN25060	2-way chk	N30100HJ	N30100HJ	Rel	N30162GA	KN34110	TrPro			
N20959DA	KN32050	QR	N30103BA	KN20541	Hand	N30162GB	KN34080	TrPro			
N20959DB	KN32060	QR	N30103BB	KN20541	Hand	N30162GB	KN34100	TrPro			
N20959DC	KN32060	QR	N30103BC	KN20541	Hand	N30162HA	KN34080	TrPro			
N20959EA	KN32011	QR	N30103BD	KN20542	Hand	N30162HA	KN34100	TrPro			
N20959EB	KN32005	QR	N30103BE	KN20542	Hand	N30162KA	KN34090	TrPro			
N20959EC	KN32005	QR	N30103BF	KN20542	Hand	N30162KA	KN34110	TrPro			
N20959HA	KN32003	QR	N30103BG	KN20541	Hand	N30162MA	KN34110	TrPro			
N20959HB	N20959HB	QR	N30103BH	KN20542	Hand	N30162MB	N30162MB	TrPro			
N20959HC	N20959HC	QR	N30103BK	KN20542	Hand	N30162NA	KN34100	TrPro			
N20960	KN20021	PP	N30103BL	KN20542	Hand	N30162NB	KN34100	TrPro			
N20960A	N20960A	PP	N30103BM	KN20542	Hand	N30162PA	N30162PA	TrPro			
N20960B	N20960B	PP	N30103BR	KN20542	Hand	N30162PB	N30162PB	TrPro			
N20961	KN20025	PP	N30103BS	KN20542	Hand	N30162PC	N30162PC	TrPro			
N20964	KN20035	PP	N30103BN	KN20541	Hand	N30190A	KN18530	Gov			
N20966A	KN205080	2-way chk	N30105B	KN20580	Hand	N30190AA	KN18532	Gov			
N20966H	KN205080	2-way chk	N30105C	KN20590	Hand	N30190AB	KN18530	Gov			
N20966K	KN205080	2-way chk	N30105D	KN20581	Hand	N30190AD	KN18530	Gov			
N20966L	KN205080	2-way chk	N30105F	KN20071	PP	N30190AE	KN18530	Gov			
N20966B	KN205090	2-way chk	N30105G	N30105G	PP	N30190AG	KN18530	Gov			

Air Valve Changeover Guide

The valve changeover guide has been compiled from competitive interchanges provided in valve manufacturers catalogs. Whenever a competitive valve is supplied for another manufacturer's product the following concerns must be addressed:

1. Is the crack pressure, hold off pressure, release pressure, or pop off pressure the same for the valves being interchanged?
2. Do the valves mount the same?
3. Are port sizes the same?
4. What is the core charge for changing over from one manufacturer's valve to another?

IMPORTANT! The original air system installed on a vehicle was designed by the vehicle manufacturer to meet federal motor vehicle safety standards as of the date of manufacture. Installation of a competitive device may affect braking system performance.

Part#	Device	Interchange
Bendix to Bendix		
R1	REL	103009
R1C	REL	103009
R5	REL	102626
R5	REL	103009
R6	REL	102626
R6	REL	103009
R8	REL	103010
Berg to Bendix		
12340	REL	103009
12341	REL	103009
12342	REL	102626
12342	REL	103009
12343	REL	102626
12343	REL	103009
12344	REL	102626
12344	REL	103009
12345	REL	102626
12345	REL	103009
12346	REL	103009
12352	SR	101112
		&102626 .
12360	SR	101112
12360	SR	101622
Kelsey to Bendix		
5468	REL	103009
5470	REL	102626
Midland to Bendix		
KN20541	SR	101112
KN20541	SR	101622
KN28000	REL	103009
KN28010	REL	102626
KN28010	REL	103009
KN28011	REL	102626
KN28011	REL	103009
KN28060	REL	103009
KN28061	REL	103009
KN28071	REL	103010
KN28132	REL	103009

Part#	Device	Interchange
KN28132	REL	103009
KN28140	REL	103010
Wagner to Bendix		
A104001	SR	101112
A104001	SR	101622
A104003	SR	101112
A104003	SR	101622
A104010	SR	101112
A104010	SR	101622
A78882	REL	102626
A78887	REL	103009
A86473	REL	102626
A86477	REL	102626
A88802	SR	101112
A88802	SR	101622
A88812	SR	101112
A88812	SR	101622
A98730	SR	101112
A98730	SR	101622
A98731	SR	101112
A98731	SR	101622
A98732	SR	101112
A98732	SR	101622
Sealco to Bendix		
A1100	REL	102626
9125	REL	102626
9125	REL	103009
Bendix to Midland		
65104	REL	A103600
101100	FOOT	KN22150
101112	SR	KN26000
101622	SR	KN26000
102626	REL	A86477
103009	REL	KN28140
103010	REL	KN28071
103028	REL	A86477
227661	TP	KN34070
227672	TP	KN34070
229434	RE	KN30300

Part#	Device	Interchange
229467	REL	KN28060
229500	FOOT	KN22100
229501	FOOT	KN22100
229505	LQ	KN32030
229507	LQ	KN32030
229509	LQ	KN32030
275491	GOV	KN18530
277144	PR	KN31060
277147	PR	KN31000
277148	PR	KN31010
277214	PR	KN31060
277226	PR	KN31000
277227	PR	KN31010
277446	RE	KN30300
277863	FOOT	KN22100
278426	PR	KN31060
278614	DC	KN25060
278615	DC	KN25060
278898	FOOT	KN22100
279000	TP	KN34060
279180	REL	KN28140
279962	TP	KN34060
280243	REL	KN28132
280651	REL	A103600
281860	RE	KN30400
281865	RE	KN30300
281923	DV	KN24000
283940	REL	KN28140
284358	GOV	KN18534
284795	DV	KN24001
286171	FOOT	KN22140
286364	SR	KN28030
286370	REL	KN28071
286371	REL	KN28071
286500	PR	KN31010
287224	REL	KN28071
287260	REL	KN28071
287376	SR	12360
288063	SR	KN28030
288323	PR	KN31010
288369	REL	KN28071
288417	LQ	KN32030

Part#	Device	Interchange
288799	GOV	KN18530
289182	QRC	KN32040
289714	QRC	KN32040
Berg to Midland		
11661	REL	A103600
11675	RE	KN30300
12343	REL	A86477
12345	REL	A103600
12346	REL	KN28500
12350	RE	KN30400
12360	SR	KN26000
Midland to Midland		
12360	SR	KN26000
KN28150	SR	KN26000
KN28160	REL	KN28500
KN30010	RE	KN30300
Sealco to Midland		
3100	REL	KN28500
9125	REL	KN28500
110139	REL	A103600
110147	REL	KN26000
110171	REL	KN26000
110180	REL	KN26000
110190	REL	KN26000
110200	RE	KN30300
110205	RE	KN30400
110230	REL	KN26000
IA1000	RE	KN30300
A1100	REL	A103600
Wagner to Midland		
A104001	SR	KN26000
A104002	SR	KN26000
A104003	SR	KN26000
A104010	SR	KN26010
A37411	RE	KN30300
A46229	RE	KN30100
A71890	RE	KN30300
A71891	RE	KN30200

Air Valve Competitive Changeover Guide

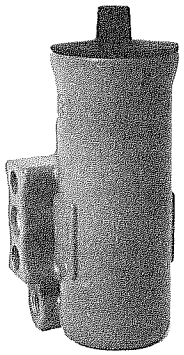
Part#	Device	Interchange	Part#	Device	Interchange	Part#	Device	Interchange	Part#	Device	Interchange
A78880	REL	KN28500	R14	REL	110416	KN39011	RE	110460			
A78880	REL	KN28500	R5	REL	110416	N3714-J	RE	110205			
A78882	REL	KN28510	R6	REL	110416	RG2	REL	110410			
A78886	REL	KN28500	R8	REL	110416	RT4	SR	110191			
A78887	REL	KN28520	RE4	RE	A1000						
A78889	REL	KN28510	RE4	RE	110268						
A80070	REL	KN28500	RE6	RE	110205						
A83335	SR	KN26000	SR2	SR	110170						
A83335	SR	12360									
A83336	SR	KN26000	Berg to Sealco								
A83336	SR	12360	11675	RE	A1000						
A86310	REL	KN28500	11675	RE	110268						
A86311	REL	KN28500	11675	RE	110470						
A86313	REL	KN28510	12341	REL	110410						
A86313	REL	KN28510	12343	REL	110415						
A86314	REL	KN28510	12345	REL	110415						
A86318	REL	KN28510	12346	REL	110410						
A88802	SR	KN26000	12360	SR	110170						
A88812	SR	KN26000	12361	SR	110170						
A98730	SR	KN26000	A99036	RE	110200						
A99036	RE	KN30400									
			Midland to Sealco								
Kelsey to Midland			A30010	RE	110200						
5454	REL	A103600	KN22140	FOOT	110400						
			KN22150	FOOT	110400						
Bendix to Sealco			KN26000	SR	110191						
102626	REL	110415	KN26010	SR	110191						
102626	REL	110416	KN28060	REL	110416						
103009	REL	110415	KN28140	REL	110416						
103009	REL	110416	KN28300	DOL	110370						
103109	REL	110415	KN28500	REL	110416						
228500	RE	110200	KN28510	REL	110410						
228500	RE	110268	KN28510	REL	110416						
229467	REL	110416	KN30000	RE	A1000						
279180	REL	110416	KN30100	RE	A1000						
281865	RE	110170	KN30100	RE	110200						
281865	RE	110170	KN30200	RE	110267						
286171	FOOT	110400	KN30200	RE	110338						
287114	DOL	110370	KN30300	RE	A1000						
287375	SR	110170	KN30300	RE	110200						
287376	SR	110170	KN30400	RE	A1000						
R12	REL	110416	KN30400	RE	110200						

Key to Abbreviations Shown in Listings and Changeover Guides

AD	Air Dryer
AD( )CT	Air Dryer Cartridge
AD( )EC	Air Dryer End Cover
AD9PA	AD-9 Purge Assembly
D2	Governor
DOL	Dolly Valve
DV	Drain Valve
DC	Double Check Valve and Stop Light Switch
Drain	Drain Valve
E( )	Foot Valve
FOOT	Foot Valve
GOV	Governor
Hand	Hand Valve
HR	Hydraulic Relay Valve
HPP	Hydraulic Push Pull Valve
LQ	Limiting Quick Release Valve
LQR	Limiting Quick Release Valve
PR	Pressure Release Valve
PP ( )	Push Pull Control Valve
QR( )	Quick Release Valve
QR( )C	Quick Release and Double Check Valve
R ( )	Relay Valve
RE	Relay Emergency Valve
RE( )	Relay Emergency Valve
REL	Relay Valve
RG( )	Relay Valve
R( )H	Relay Valve - Horizontal Mount
RT( )	Trailer Valve
SR	Spring Brake Valve
TC	Trailer Valve
TP	Tractor Protection Valve
TrPro	Tractor Protection Valve
TW	Lever Control Valve

Remanufactured Air Governors

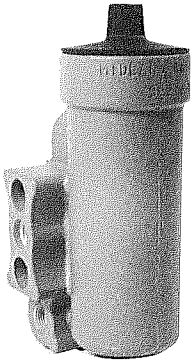
Governor *- Signals the unloading mechanism on the compressor when to build up air to the reservoir and when to halt air build up. Usually between 100 and 120 P.S.I..*



Bendix D2 Governor

Part No.	Range	Remarks
275491	100-120 PSI	1/8" Ports

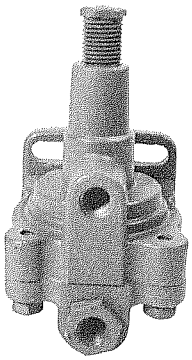
Includes plugs for unused ports & gasket



Midland Standard Governor

Part No.	Range	Remarks
KN18530	100-120 PSI	1/8" Ports
KN18531	100-120 PSI	1/4" Ports

Includes plugs for unused ports & gaskets



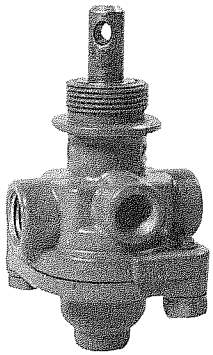
Midland Diaphragm Type Governor

Part No.
KN18511
(1) 1/16" PT Unloader port
(1) 1/8" PT Unloader port

Remanufactured Control Valves - Push Pull

Push Pull Valves *- Manually operable - Pressure sensitive, on/off valves which will automatically return to the button out (exhaust) position when supply pressure is below the required minimum.*

Bendix PP-1 Valve



276566 (Shown)

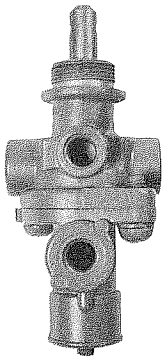
Part No.	Release Pressure.	Delivery Port
276566	20 PSI	1/8" PT
276567	40 PSI	1/8" PT
281587 (1)	40 PSI	1/8" PT
287417 (2)	30 PSI	1/4" PT
287637 (3)	40 PSI	1/8" PT

(1) Remote mount - 1/4" Female thread in shaft

(2) 1/4" threaded delivery port

(3) 1/8" threaded delivery port - non automatic

Bendix PP-2 Valve



Part No.	Release Pressure.	Delivery Port
276462	40 PSI	1/8" PT
280454 (1)	40 PSI	1/8" PT

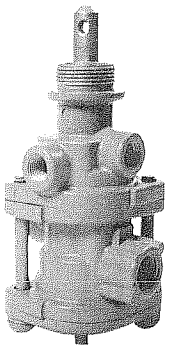
(1) Remote mount

276462 (Shown)

Buttons and mounting hardware are not included.

The PP-2 has an anti-compounding port which prevents simutaneous application of both the service and parking brakes

Bendix PP-3 Valve

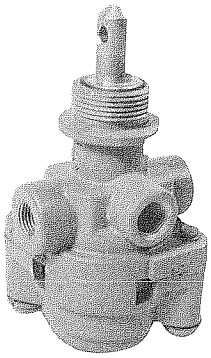


Part No.	Release Pressure	Delivery Port
279787 (1)	See Note	Not threaded
288746	See Note	Not threaded
289477	See Note	(2) 1/8" PT
289512 (1)	See Note	(2) 1/8" PT

(1) Remote mount - 1/4" Female thread in shaft

288746 (Shown)

Bendix PP-5 Valve



Part No.	Release Pressure	Delivery Port
281946	40 PSI	(2) 1/8" PT
284744	Manual	(2) 1/8" PT

281946 (Shown)

Buttons and mounting hardware are not included.

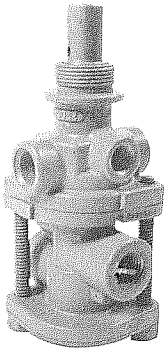
The PP-3 has a tripper that exhausts at 30 psi and charges above 50 psi, The plunger trips at 40 psi and charges manually. The tripper prevents manual overide of the emergency application of the parking brakes.

PP-5 • Used in conjunction with vehicle torque converter systems, engine speed control systems, and some parking brake systems. In addition to manual control it employs a pilot air release feature which will allow the valve to be exhausted by applying a low pressure signal from another control valve to the control port.

Remanufactured

Control Valves - Push Pull (continued)

Bendix PP-7 Valve (Trailer Supply Valve)



Part No.	Release Pressure	Stem Diameter
288239	40 PSI	3/8"
288240 (1)	40 PSI	1/2"
288241 (2)	40 PSI	5/16"
288242 (1)	40 PSI	1/2"

(1) Remote Mount - 1/4" Female thread in shaft

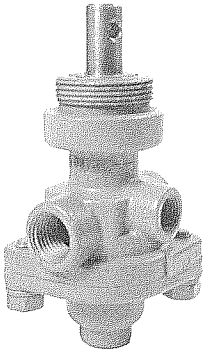
(2) 1/4" threaded exhaust port

288242 (Shown)

Buttons and mounting hardware are not included.

The PP-7 features an air operated control in the lower body that provides an application of the trailer brakes when the emergency tractor brake system is applied. Works in conjunction with the tractor protection system.

Bendix PP-8 Valve (Manually Operated)



Part No.	Release Pressure	Delivery Port
287238	Manual	(2) 1/8" PT
287240 (1)	Manual	(2) 1/8" PT
287418	Manual	(2) 1/4" PT
289259 (1)	Manual	(2) 1/8" PT

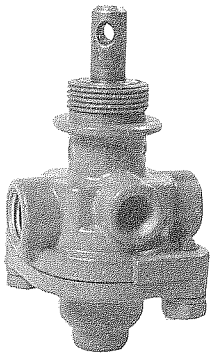
(1) Remote Mount

287238 (Shown)

Buttons and mounting hardware are not included.

The PP-8 is manually operated. It will remain in the position it is placed in regardless of delivery or supply pressure. It is used to control tractor parking brakes on Post FMVSS-121 systems.

Bendix RD-3 Valve (Manually Operated)



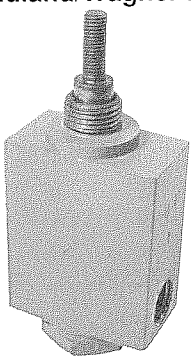
Part No.	Release Pressure	Delivery Port
286211	Manual	(2) 1/8" PT

286211 (Shown)

Buttons and mounting hardware are not included.

The RD-3 is a manually operated on-off control. It is spring loaded in the exhaust position. It must be constantly held in to remain in the delivery or open position. It is used as a emergency brake release control.

Midland/Wagner Manually Operated Push Pull Valves



A83034 (Shown)

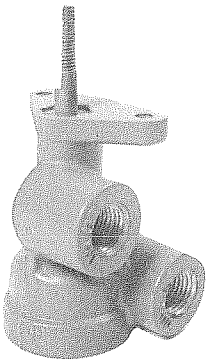
Part No.	
A83034	In dash 2 way valve
A83580 (1)	Remote mount parking brake release - 3 way valve.
A87490 (1)	Remote mount pintle hook release - 3 way valve.

(1) 1/4" threaded exhaust port

All ports on the above valves are 1/4"PT.

Buttons and mounting hardware are not included.

Midland Push Pull Dash Valves



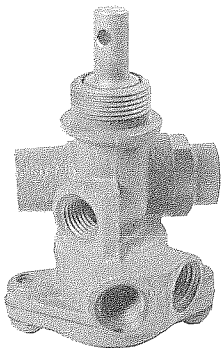
KN20030 (Shown)

Part No.	Pop Pressure	Delivery Port
KN20010	0 PSI	(1) 1/4" PT
KN20020 (1)	25/40 PSI	(1) 1/4" PT
KN20030	25/40 PSI	(1) 1/4" PT
KN20060	Manual	(1) 1/8" PT

(1) 1/4" Threaded female shaft

Buttons and mounting hardware are not included.

Sloan Push Pull Dash Valve
With Double Check Valve



401033 (Shown)

Part No.	
401033	Threaded exhaust port
401037	

All ports 1/4" PT

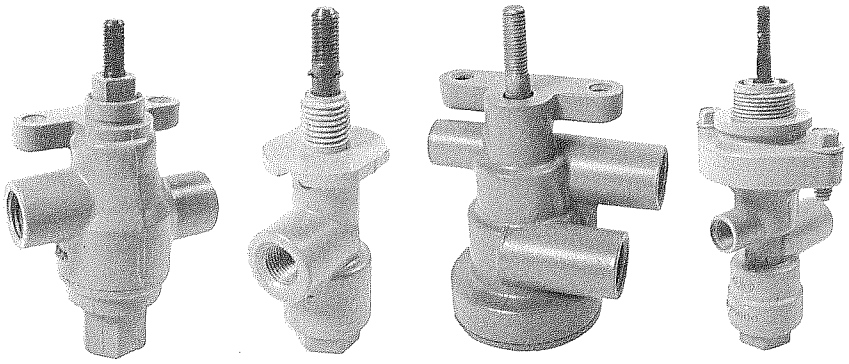
Buttons and mounting hardware are not included.

The 2 way check valve incorporated in this valve allows either the primary or secondary air supply to operate spring brakes on tractor trailer combinations.

Remanufactured
Control Valves - Push Pull (continued)

Cab Control Valves

Automatic Shutoff Valves



17600-2 3425 99600 A25600

Buttons and mounting hardware are not included.

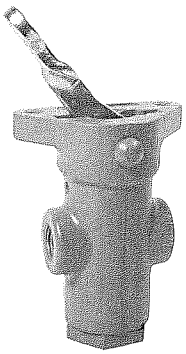
Sealco Push Pull Valves

Part No.	
Cab Control Valves	
3425	Starter control/emergency release and differential lockout valve
17600-2	Breakaway valve
17600B-2	Emergency spring brake release
Automatic Shutoff Valves	
99600	Push to park/pull to release
A25600	Pull to park/push to release

Remanufactured
Control Valves - Lever Type

***Lever Type Valves** - Manually operated valves. Usually dash mounted with either 2 or 3 lever positions. They are also available in cable control configuration. These valves are used primarily to control parking and emergency brakes.*

Bendix TW-1 Valves



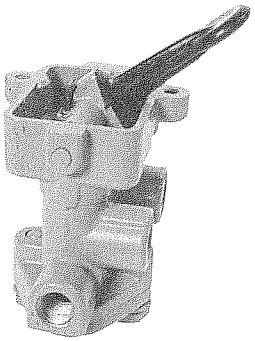
Part No.	Style
229608	Cable operated
229635	Lever operated

229635 (Shown)

Buttons and mounting hardware are not included.

The TW-1 is commonly used in conjunction with limiting and quick release valves and tractor protection valves.

Bendix TW-2 and TH-3 Control Valves



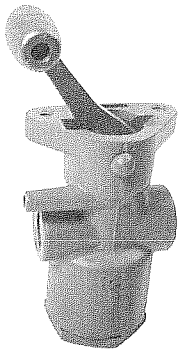
Part No.	Type of Valve
280904	TH-3
280905	TW-2

280905 (Shown)

Buttons and mounting hardware are not included.

The TW-2 and TH-3 are similar to the TW-1 except that two valves are housed in the same body. The TW-2 has 2 lever positions and the TH-3 has 3 lever positions. The lever controls both of the valves.

Bendix TW-3 Valve



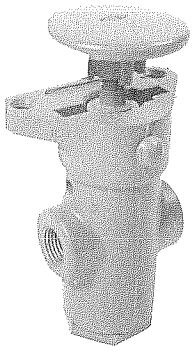
Part No.	Style
228762	Has Vacuum Hose
283040	Air only
283935	Air only

283040 (Shown)

Buttons and mounting hardware are not included.

The TW-3 is a 2 position lever operated valve commonly used in conjunction with parking and emergency brake systems. It has a slightly greater capacity than the TW-1.

Bendix TW-4 Valve



Part No.
276635

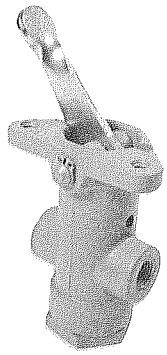
276635 (Shown)

Buttons and mounting hardware are not included.

The TW-4 is button actuated and is commonly used with air starter systems.

Remanufactured
Control Valves - Lever Type (continued)

Midland Lever Type "Flipper" Control Valve

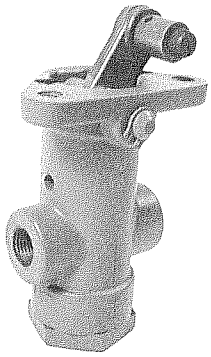


Part No.
KN20000

KN20000 (Shown)

Buttons and mounting hardware are not included.

Midland Camstyle/Lever Type Control Valve

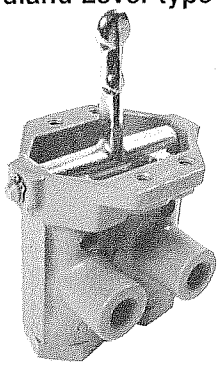


Part No.
KN20040 Handle as shown in release position.
KN20050 Handle in release position opposite than that shown.

KN20040 (Shown)

Buttons and mounting hardware are not included.

Midland Lever type "Double Flipper" Control Valve



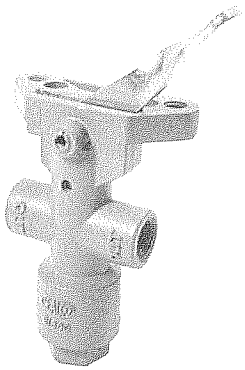
KN20080 (Shown)

Part No.
KN20080 3 position handle (Neutral center)-Manual release both directions.
KN20090 3 position handle (Neutral center)-Manual release in one direction, automatic release in the other direction. [1]
KN20110 2 position handle, manual release in both directions.

[1] Replaces Holland Hitch Part Number 4530H.

Buttons and mounting hardware are not included.

Sealco Lever Control Valve



Part No.
21600-2

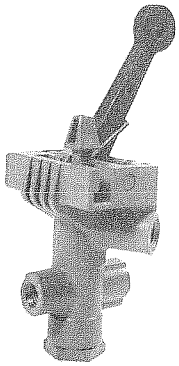
21600-2 (Shown)

Buttons and mounting hardware are not included.

Remanufactured
Modulating Control Valves Lever Type

Lever Type Modulating Control Valves *- Manually operable. Capable of delivering gradations of pressure between 5 PSI and the maximum delivery pressure for the valve. They can be locked in the exhaust or brakes applied position. They are used to modulate parking and emergency brakes.*

Bendix TC-4 Modulating Control Valve

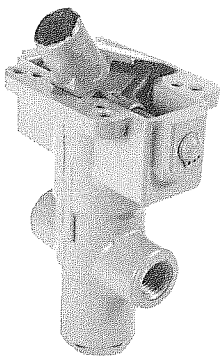


Part No.	Delivery Pressure	Lock Position
282368	86-100 PSI	Left
282381	86-100 PSI	Right

282368 (Shown)

Buttons and mounting hardware are not included.

Midland Modulating Control Valve



Part No.	Lock Position
KN20070	Top Left

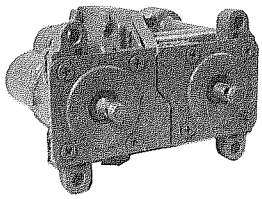
KN20070 (Shown)

Buttons and mounting hardware are not included.

Remanufactured
Control Valves - Modular

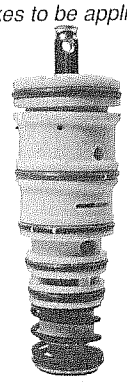
Control Module - *Integrated control assembly normally mounted in the control panel of a truck tractor. It provides all the federal legal requirements for trailer air supply and parking brake control. It also permits the tractor parking brakes to be applied while air is supplied to the trailer.*

Bendix MV-2 Control Module

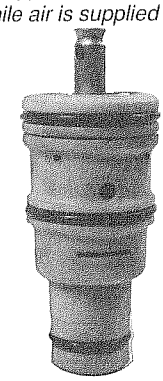


101437 (Shown)

Part No.	
101437	MV-2 Module
101569	Spool Assembly
101570	SpoolAssembly



101569
Spool Assembly



101570
Spool Assembly

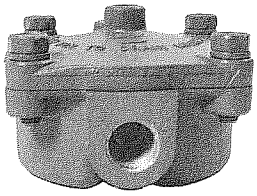
Buttons and mounting hardware are not included.

The MV-2 consists of two push pull valves and a dual circuit supply valve. The valve is serviced by replacing the complete spool inserts shown above. The complete valve and the two spool assemblies are available.

Remanufactured
Automatic Drain Valves

Automatic Drain Valve - *Installed directly into the bottom drain port of the reservoir. It operates automatically from ascending and descending reservoir pressures.*

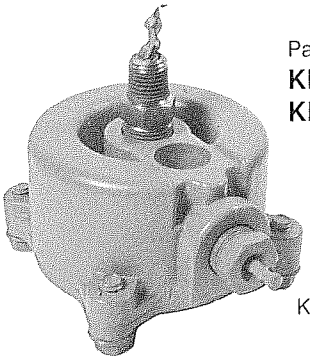
Bendix DV-2 Drain Valve



281923 (Shown)

Part No.	
281923	
284795	With Heater

Midland Drain Valve



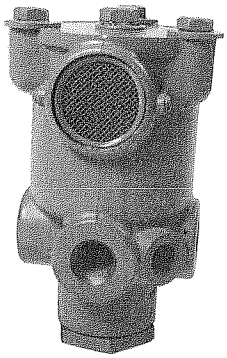
KN24000 (Shown)

Part No.	
KN24000	
KN24001	With Heater

Remanufactured
Foot Valves - Single Circuit

Single Circuit Foot Valves *- Normally used on pre FMVSS-121 vehicles. It is foot operated and controls the delivery of air to the brake chambers . Simply stated it provides the driver with a means of applying and releasing the brakes on a vehicle.*

Bendix E-1 Brake Valve



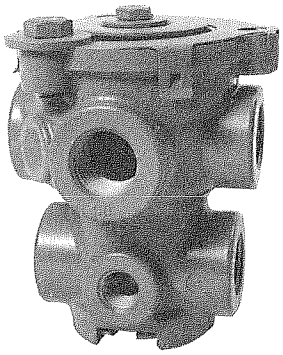
228429 (Shown)

Part No.	Delivery Ports	Size
228429	4	1/2"
228430	4	3/8"

Furnished less treadle and mounting brackets

The E-1 brake is floor mounted and can be treadle or lever actuated. Used on pre-FMVSS-121 single circuit air brake systems.

Bendix E-2 • E-3 Foot Valves



277863 (Shown)

Part No.	Valve	Delivery Ports
229500	E-2	(4) 3/8" PT
229501	E-2	(4) 1/2" PT
277863	E-3	(2) 1/2" PT
278998 (1)	E-3	(2) 1/2" PT

(1) (1) 1/4" PT auxiliary ports.

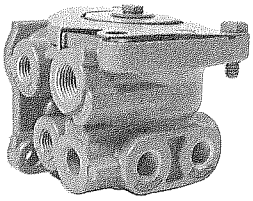
Furnished less treadle and mounting brackets

The E-2 and E-3 foot valves are floor mounted and can be either treadle or lever actuated. The valves are identical except that the E-3 has slightly longer plunger travel that provides a softer "feel" than the E-2.

Remanufactured
Foot Valves - Single Circuit (continued)

Bendix E-5 Foot Valve

Part No.	Delivery Ports
279950	(2) 1/4" PT • (1) 1/2 " PT (1) 3/8" PT



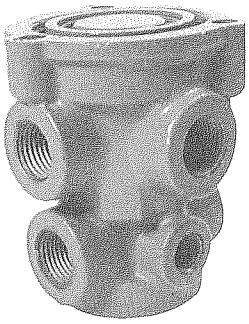
279950 (Shown)

Furnished less treadle and mounting brackets

The E-5 is firewall mounted and has a suspended pedal. It is mounted in the cab of the truck.

Midland Single Circuit Foot Valve

Part No.	Delivery Ports
KN22100	(4) 1/2 " PT

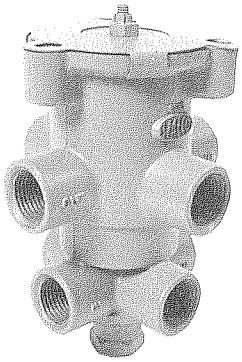


KN22100 (Shown)

Furnished less treadle and mounting brackets

Sealco Foot Valve

Part No.
6125-2

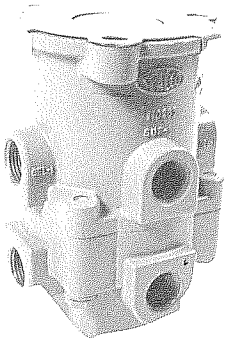


6125-2 (Shown)

Furnished less treadle and mounting brackets

Sealco Dual Circuit Foot Valve

Part No.
110400



110400 (Shown)

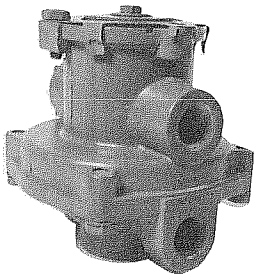
Furnished less treadle and mounting brackets

Remanufactured
Foot Valves - Dual Circuit

Dual Circuit Foot Valves *- A dual foot valve has two separate circuits for service and secondary braking, and is used in dual circuit air brake systems mandated by FMVSS-121. Braking ability is maintained in the event that one circuit fails.*

Bendix E-4 Dual Foot Valve

Part No.	Delivery Ports	Size
279750	2	1/2" PT

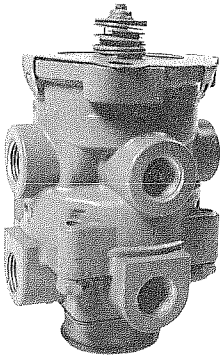


279750 (Shown)

Furnished less treadle and mounting brackets

Bendix E-6 Dual Foot Valve

Part No.	Delivery Ports	Size
286171	4	3/8" PT



• All supply and delivery ports are 3/8" PT. 2 supply ports are serviced from the #1 reservoir and 2 are serviced by the #2 reservoir. 2 delivery ports actuate the primary circuit and 2 actuate the secondary circuit.

286171 (Shown)

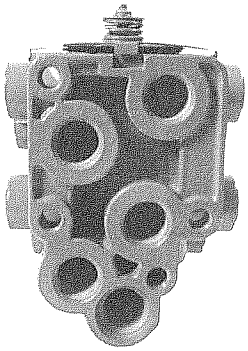
Furnished less treadle and mounting brackets

The E-6 is a floor mounted treadle operated valve with two separate supply and delivery circuits.

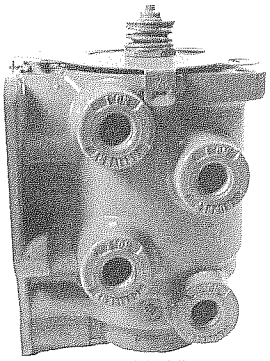
Remanufactured

Foot Valves - Dual Circuit (continued)

Bendix E-7 Dual Foot Valve



Rear or Flange View
101818 Shown



Left Side View
101818 Shown

Part No.	Left Del	Left Sup	Right Del	Right Sup	Mtg Studs	Stud Size
101818	3/8" PT	1/4"PT	3/8" PT	1/4"PT	None	--
284760 (1)	--	--	--	1/4"PT	None	--
286773	1/4" PT	1/4"PT	1/4" PT	1/4"PT	Yes	1 1/2" x 3/8
286775	1/4" PT	1/4"PT	1/4" PT	1/4"PT	Yes	3/4" x 3/8
287411	3/8" PT	3/8"PT	1/4" PT	1/4" PT	None	--
287564 (2)	1/4" PT	1/4"PT	1/4" PT	1/4"PT	Yes	15/16" x 3/8
288383	1/4"" PT	1/4"PT	1/4" PT	1/4"PT	None	--

(1) O'ring sealed flange ports. 2 ea DS293561, 6 ea DS247298, and 2 ea DS247227 O'Rings are packaged with the valve.

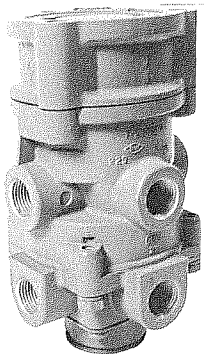
(2) The exhaust port contains a diaphragm.

• All flange delivery and supply ports are 1/2" PT except for part number 284360.

Furnished less treadle and mounting brackets

The E-7 is a firewall mounted, suspended pedal foot valve. It is a dual circuit valve with two separate supply and delivery circuits. With the exception of part number 284760, threaded supply and delivery ports for both circuits are located on the back of the valve.

Bendix E-10 Dual Foot Valve



101100 (Shown)

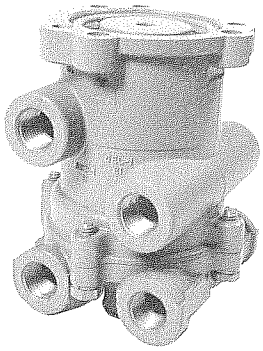
Part No.	Delivery Ports	Size
101100	4	3/8" PT

• All supply and delivery ports are 3/8" PT. 2 supply ports are serviced from the #1 reservoir and 2 are serviced by the #2 reservoir. 2 delivery ports actuate the primary circuit and 2 actuate the secondary circuit.

Furnished less treadle and mounting brackets

The E-10 is a floor mounted treadle operated valve with two separate supply and delivery circuits.

Bendix E-12 Dual Foot Valve



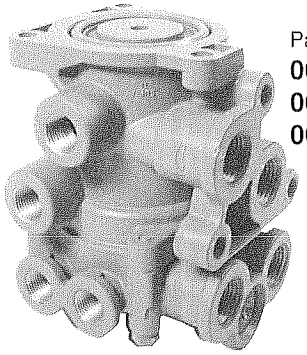
065313 (Shown)

Part No.
065313

Furnished less treadle and mounting brackets

The Bendix E-12 dual circuit foot valve is a floor mounted treadle operated valve with two separate supply and delivery circuits.

Bendix E-14 Dual Foot Valve



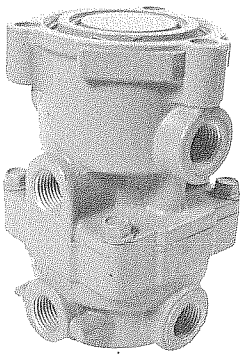
065314 (Shown)

Part No.	
065314	
065317	Exhaust port threaded
065395	Used with manifold

Furnished less treadle and mounting brackets

The E-14 is a firewall mounted, suspended pedal foot valve. It is a dual circuit valve with two separate supply and delivery circuits.

Midland Dual Circuit Foot Valve



KN22150 (Shown)

Part No.	Delivery Ports	Size
KN22140	4	3/8" PT
KN22150 (1)	4	3/8" PT

• All supply and delivery ports are 3/8" PT. 2 supply ports are serviced from the #1 reservoir and 2 are serviced by the #2 reservoir. 2 delivery ports actuate the primary circuit and 2 actuate the secondary circuit.

(1) The bottom portion of this valve is EGP (plastic).

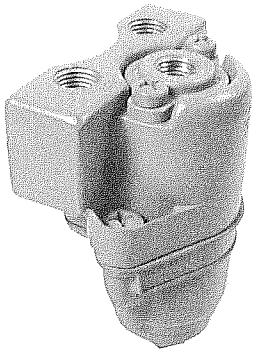
Furnished less treadle and mounting brackets

The Midland dual circuit foot valve is a floor mounted treadle operated valve with two separate supply and delivery circuits.

Remanufactured
Hand Control Valves

Hand Control Valves *- The most common function of hand control valves is for independent control of trailer service brakes. As a result they are also referred to as "Trailer Control Valves."*

Bendix TC-2 Trailer Control Valve



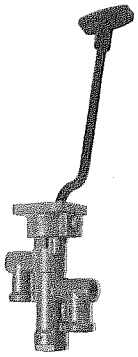
Part No.	Maximum Delivery
276270	80 PSI
276272	80 PSI

The TC-2 mounts on the steering column.

276270 (Shown)

Furnished less handle and clamp

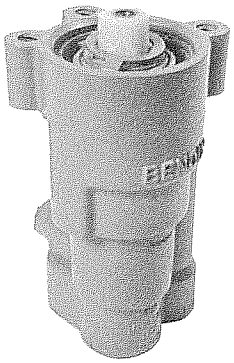
Bendix TC-6 Trailer Control Valve



Part No.
101786

101786 (Shown)

Bendix TC-7 Trailer Control Valve

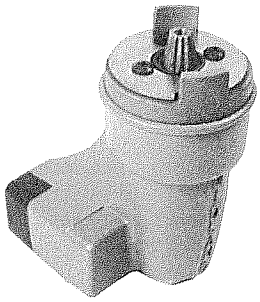


Part No.	
101860	Positioning
102394	Self Returning

101860 (Shown)

Furnished less handle and clamp

Midland Hand Control Valve

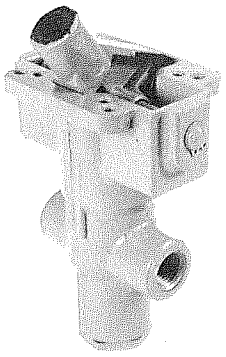


Part No.	
KN20561	Positioning
KN20562	Self Returning

KN20561 (Shown)

Furnished less handle and clamp

Midland Hand Control Valve - Limited Delivery

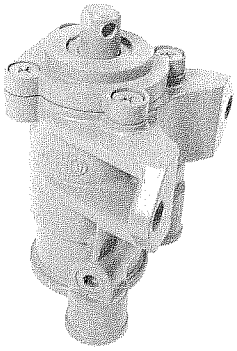


Part No.	Maximum Delivery
KN20071	50 PSI
KN20580	50 PSI
KN20581	Current system pressure
KN20590	60 -75 PSI

KN20071 (Shown)

Furnished less handle and clamp

Sealco Hand Control Valve

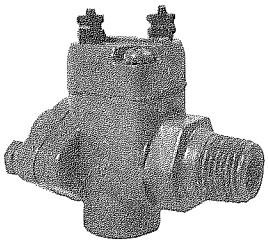


Part No.
5900

5900 (Shown)

Furnished less handle and clamp

Bendix DS-1 Double Check Valve and Stop Light Switch

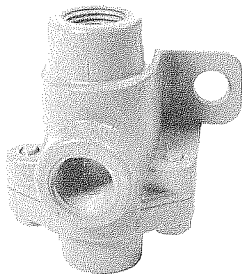


	Male Ports	Female Ports
228050	(1) 1/2"	(2) 1/4"
228165	(1) 3/8"	(2) 1/4"
228520	(1) 1/2"	(1) 3/8"
229493	(1) 1/2"	(3) 1/4"

All have 8/32 Terminal Thread

228050 (Shown)

Bendix DC-4 Double Check Valve



	Port Size
278614	(3) 3/8"
278615	(3) 1/4"

278614 (Shown)

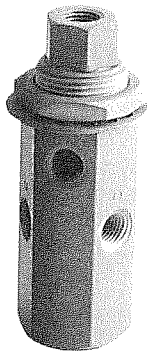
DS-1 Check Valve *-Performs the function of both a stop light switch and a double check valve. It accepts a signal from two sources and delivers it to a common outlet. It is used in pre FMVSS-121 single circuit systems. Normally used with a trailer control and foot valve where delivery pressure from either source activates the stop lamps and controls the brakes.*

DC-4 Double Check Valve *- Accepts a signal from two sources and delivers it to a common outlet. Normally used with a trailer control and foot valve where delivery pressure from either source, but not both controls the brakes.*

Remanufactured
Inversion Valves

InversionValves *- An inverting,on-off, two way valve. Normally the valve is open, and it is closed by air pressure from another source. Used in parking brake and sequencing applications.*

Bendix TR-2 Inversion Valve

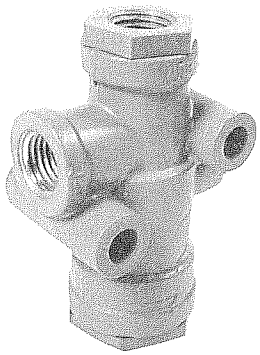


Part No.
277340

With 125 PSI air pressure the valve must begin to exhaust at 65 PSI nominal ascending control pressure. It must deliver full supply pressure with 40 PSI nominal descending control pressure.

277340 (Shown)

Bendix TR-3 Inversion Valve



Part No.	A PSI	B PSI
101450	25	40
280758	45	60
281318	35	70
281459	25	40
288586	75	90

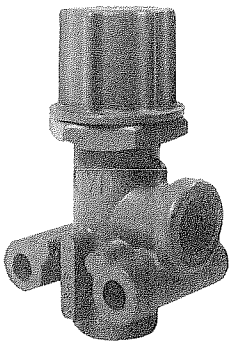
With common control and supply pressure inlet opens at "A" PSI descending pressure and the exhaust opens at "B" PSI ascending pressure.

288586 (Shown)

Remanufactured
Pressure Protection Valves

Pressure Protection Valves *- Protects the brake system from accessory failure. Used to isolate and protect one reservoir supply from another by closing at its pressure setting. Also used in rapid buildup systems where it delays the filling of auxiliary reservoirs until a preset pressure is reached in the primary reservoir.*

Bendix PR-2 Pressure Protection Valve

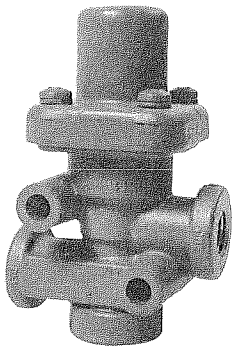


Part No.	Nominal Closing Pressure
277147	65 PSI
277148	85 PSI
277226	60 PSI
277227	75 PSI

277147(Shown)

Pressure Setting on the PR-2 is adjustable

Bendix PR-4 Pressure Protection Valve



Part No.	Nominal Closing Pressure
103976 (1)	45 PSI
286500	85 PSI
288323	70 PSI

(1) This part number is designed for use with aftercoolers and air dryers where the air compressor turbocharger inlet is turbocharged.

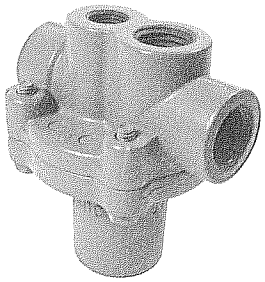
•Supply and delivery ports are 1/4" PT except on the 103976 which has 1/2" PT ports.

286500 (Shown)

Pressure Setting on the PR-4 is **not** adjustable

Remanufactured
Pressure Protection Valves (Continued)

Midland Pressure Protection Valve



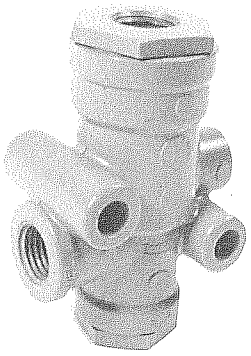
Part No.	Operating PSI Open	Operating PSI Close
KN31000	65 PSI	45 PSI
KN31010	95 PSI	45 PSI

KN31000 (Shown)

Pressure setting on this valve is **not** adjustable

Remanufactured
Synchronizing Valve

Bendix SV-1 Synchronizing Valve



Part No.	A PSI	B PSI
278825	42	28
282472	21	11
283700	62	50

With common control and supply pressure, inlet opens at "A" PSI and the exhaust opens at "B" PSI.

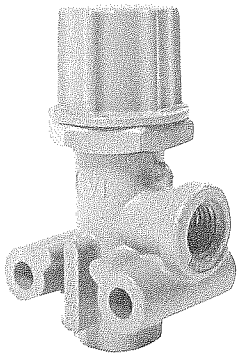
278825 (Shown)

Synchronizing Valve *- Used to control air from a remote supply that is different than control supply. It also can be used to delay or sequence the action of other air operated devices.*

Remanufactured
Pressure Reducing Valve

Pressure Reducing Valve *- Used where a constant set air pressure lower than supply pressure is required. Typically an air operated application that requires less than system air pressure.*

Bendix RV-1 Pressure Reducing Valve

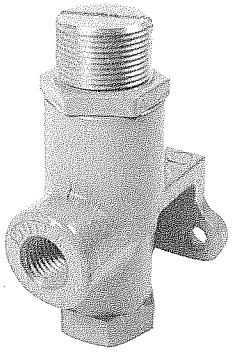


Part No.	Nominal Delivery Pressure
101135	85 PSI
277144	80 PSI
277214	75 PSI
278426	65 PSI

277144 (Shown)

Pressure setting on the RV-1 is adjustable

Midland Pressure Regulating Valve



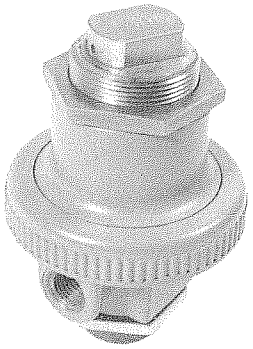
Part No.	Nominal Delivery Pressure
KN31050	45 PSI
KN31060	60 PSI

For use in auxiliary systems only - not used in the brake system. Pressure settings are based on 100 PSI supply.

KN31050 (Shown)

Pressure setting on this valve is adjustable

Midland Pressure Regulating Valve

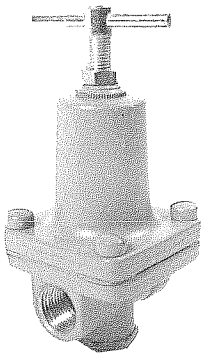


Part No.	Nominal Delivery Pressure
KN31080	60 PSI

KN31080 (Shown)

Pressure setting on this valve is adjustable

Midland Pressure Regulating Valve



Part No.	Adjustable Delivery Pressure
KN31070	10 - 125 PSI

A non-exhaust type valve.
Used to preset pressure levels on accessory systems.

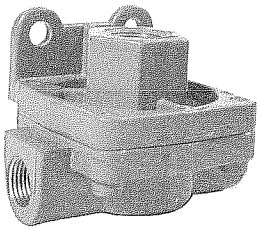
KN31070 (Shown)

Pressure setting on this valve is adjustable

Remanufactured
Quick Release Valves

Quick Release Valve *- Decreases the release time on a brake application by rapidly exhausting air through itself rather than through the controlling valve. It is normally installed adjacent to the device that is being controlled.*

Bendix QR-1 Quick Release Valve

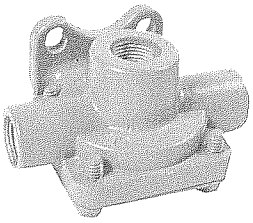


Part No.	Supply	Delivery
229813	3/8" PT	1/4" PT
229844	1/2" PT	1/4" PT
229859	3/8" PT	3/8" PT
229860	1/2" PT	3/8" PT
281024	1/4" PT	1/4" PT
288251(1)	3/8" PT	3/8" PT

(1) Has a 3/8" PT exhaust port

229859 (Shown)

Midland Quick Release Valve



Part No.	Supply	Delivery
KN32000(1)	3/8" PT	1/4" PT
KN32010(1)	1/2" PT	3/8" PT
KN32020(2)	3/8" PT	1/4" PT

(1) Low Pressure Differential
(2) High Pressure Differential

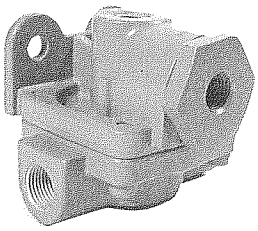
KN32000 (Shown)

All the above QR-1 valves have a **crack pressure** of 1 PSI.

Remanufactured
Quick Release Valve
With Double Check Valve

Quick Release Valve with Double Check Valve *- Incorporates both a quick release and a double check valve. Functions as a quick release for the emergency side of the spring brakes , while the double check valve prevents simultaneous application of the emergency side of the spring brake (Anti-Compounding).*

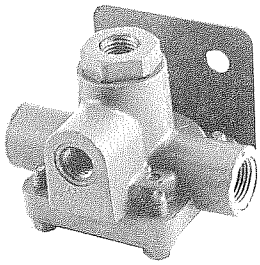
Bendix QR-1C Quick Release & Double Check Valve



Part No.	Supply	Delivery
289182	1/4" PT	1/4" PT
289714	1/4" PT	3/8" PT

289182 (Shown)

Midland Quick Release and Double Check Valve



Part No.	Supply	Delivery
KN32040	1/4" PT	1/4" PT

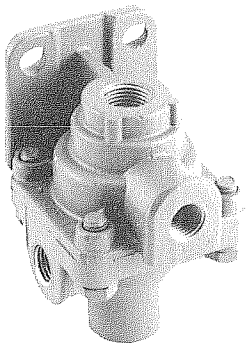
KN32040 (Shown)

All the above QR-1C valves have a **crack pressure** of 1 PSI.

Remanufactured
Limiting and Quick Release Valve

Limiting and Quick Release Valve *- Mounted on the front axle this valve limits front axle brake application by 50 % on slippery roads. It is controlled by a "flipper" switch on the dashboard . In the normal position (dry road) it will deliver full application pressure. It also serves as a quick release valve for the front axle. Primarily used on pre FMVSS-121 vehicles.*

Bendix LQ-2 Limiting Quick Release and Double Check Valve

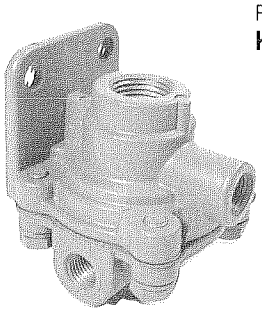


Part No.	Supply	Delivery
229505	3/8" PT	3/8" PT
229507	1/2" PT	1/4" PT
229509	3/8" PT	1/4" PT
288417 (1)	3/8" PT	3/8" PT

(1) Has a 3/8" PT exhaust port

229505 (Shown)

Midland Limiting Quick Release and Double Check Valve



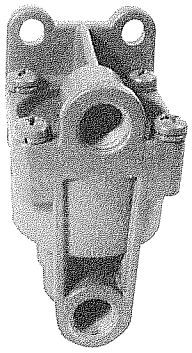
Part No.	Supply	Delivery
KN32030	1/2" PT	1/4" PT

KN32030 (Shown)

Remanufactured
Ratio Valve

Ratio Valve *- Automatically reduces application pressure to the front service brakes. As brake application pressure is increased the percentage of reduction is decreased until a preset pressure is reached. A preset "holdoff" pressure prevents the front brakes from operating until the "hold-off" pressure is reached. Used on post FMVSS-121 vehicles only.*

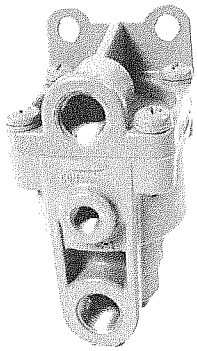
Bendix LQ-4 Ratio Valve



Part No.	Nominal Holdoff	Nominal Equalizing
101311	20 PSI	70 PSI
289144	4 PSI	60 PSI
289148	10 PSI	65 PSI

289148 (Shown)

Bendix LQ-5 Bobtail Ratio Valve



Part No.
065154

The LQ-5 replaces existing front axle limiting valves on tractor systems only. During bobtail mode the LQ-5 delivers full application pressure to the front axle.

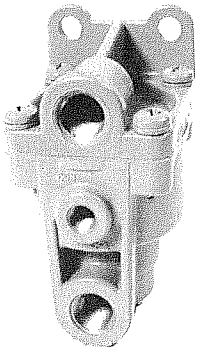
065154 (Shown)

Note: The LQ-5 will not replace the BP-1 valve which looks identical. The LQ-5 will not function in the BP-1 system.

Remanufactured
Bobtail Brake Proportioning Valve

Air Brake Proportioning Valve *- Designed to improve stopping when operating in a bobtail mode.*

Bendix BP-1 Air Brake Proportioning Valve



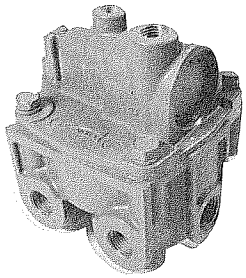
Part No.	Nominal Holdoff	Nominal Equalizing
Front Axle Application		
104598	4 PSI	50 PSI
Rear Axle Application		
106284	8 PSI	105 PSI

Important note:

The front & rear applications of the BP-1 are not interchangeable.

104598 (Shown)

Bendix BP-R1 Bobtail Brake Proportioning Relay Valve



Part No.	Crack Pressure
065145	4 PSI
065146	5.5 PSI

The BP-R1 combines the functions of a standard relay valve and a proportioning valve. It is designed for use on a tractor only. When operating in a "bobtail" mode the valve proportions air pressure to the lighter rear brakes

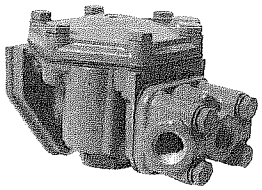
065145 (Shown)

While the BP-1 looks identical to the LQ-5 they are not interchangeable.

Remanufactured
Relay Valves

Relay Valve *- Used to rapidly apply and release rear axle(s), service, or parking brakes. When signaled by the service brake valve, they graduate, hold or release air pressure from the chambers to which they are connected. The relay valve is used to balance the time of air application on the vehicle. This is determined by the factory preset "crack pressure" of the valve. Crack pressure is set on a relay valve by a "hold-off" spring that retards valve operation until a predetermined amount of air pressure is exerted.*

Bendix R-1C Relay Valve

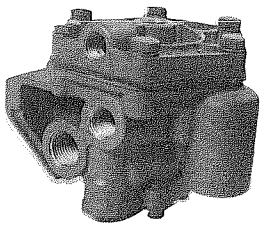


Part No.	Supply	Delivery
227355	3/8" PT	(3) 3/8" PT
227356	1/2" PT	(3) 3/8" PT
227357	3/8" PT	(3) 1/4" PT

- The control port is 1/4" PT on all R-1C valves.
- All R-1C valves have a nominal crack pressure of 4 PSI.

227355 (Shown)

Bendix R-5 Relay Valve



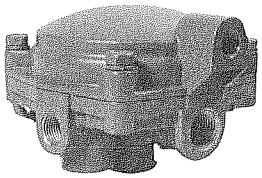
Part No.	Supply	Delivery
229467	(2) 3/4" PT	(4) 3/8" PT

- The R-5 has 2 horizontal delivery ports and 2 vertical delivery ports.
- There are 2 control ports 1/4" PT.
- The nominal crack pressure of the R-5 is 3 PSI.

229467 (Shown)

Remanufactured
Relay Valves (continued)

Bendix R-6 Relay Valve



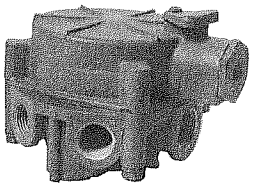
Part No.	"A" Supply	"B" Supply
279180	--	3/8" PT
279952	3/4" PT	3/8" PT
280243 (1)	--	3/8"PT
280375	--	1/2" PT
280651 (2)	3/4" PT	3/8" PT
283940 (3)	3/8" PT	3/8" PT

(1) Nominal crack pressure of 10 PSI
(2) Includes pipe plugs and gasket
(3) Service port rotated 90° from that shown - Ford application

279180 (Shown)

- The service port is 1/4" PT on all R-6 valves.
- All R-6 valves have (4) 3/8" PT delivery ports.
- All R-6 except (1) noted above have a nominal crack pressure of 2 PSI.

Bendix R-8 Relay Valve



Part No.	Service Port Rotation From Mtg Flange
286370	90°
286371	90° (no exhaust over)
287224	270°
287260	180° (no exhaust over)
288369	180°

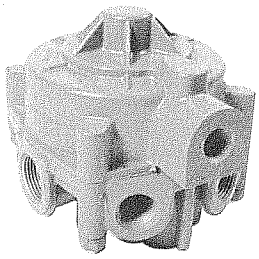
- (2) 3/4" PT supply ports
- (2) 1/2" PT delivery ports
- (1) 1/4" PT delivery port on bottom
- (1) 1/4" PT service port
- (1) 1/8" PT balance port under exhaust cover

286370 (Shown)

- All of the R-8 valves listed above have a nominal crack pressure of 3 PSI.

The balance port provides an anti-compounding feature that prevents simultaneous application of the service and parking sides of the spring brake, and allows the valve to control spring brakes and service brakes.

Bendix R-8P Pressure Equalizing Relay Valve



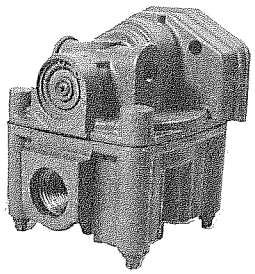
Part No.
287114

- (2) 3/4" PT supply ports
- (2) 1/2" PT delivery ports
- (1) 1/4" PT delivery port on bottom
- (1) 1/4" PT service port

287114 (Shown)

The R-8P is specifically designed for use on semi-trailer converter dollies. It has a 0 PSI differential between the service and delivery ports. Standard relay valves have a 2 - 4 PSI pressure differential.

Bendix R-10 Relay Valve

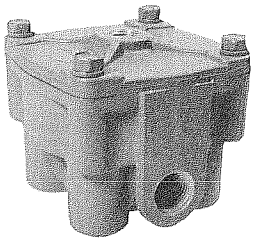


Part No.	Crack Pressure
101333	4.0 PSI

- (4) 1/2" PT delivery ports located on the bottom of the valve.
- (2) 1/4" PT service ports
- (1) 3/4" PT supply port

101333 (Shown)

Bendix R-12 Relay Valve
(Vertical Mount)



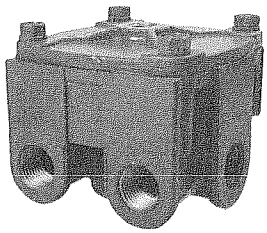
Part No.	Crack Pressure	Delivery Port Size
065104	5.5 PSI	3/8" PT
102626	4.0 PSI	1/2" PT
103912	7.5 PSI	1/2" PT
104561	5.5 PSI	3/8" PT

- The vertical mount R-12 has 4 delivery ports located on the bottom of the valve.
- (1) 1/4" PT service port
- (1) 1/2" PT supply port

102626 (Shown)

Universal mounting bracket DS296010 supplied with all R-12 relay valves

Bendix R-12H Relay Valve
(Horizontal Mount)



Part No.	Crack Pressure	Supply Port Size
065125	5.5 PSI	1/2" PT
103009	4.0 PSI	3/4" PT
103195	10.0 PSI	3/4" PT
104165	7.5 PSI	3/4" PT

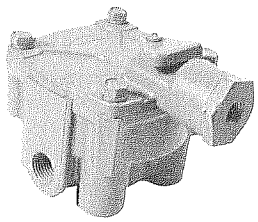
- The horizontal mount R-12H has 2 delivery ports located on the side of the valve.
- (1) 1/4" PT service port
- (2) 1/2" PT delivery ports

103009 (Shown)

Universal mounting bracket DS296010 supplied with all R-12 relay valves

Remanufactured
Relay Valves (continued)

Bendix R-14 Relay Valve
(Vertical Mount)

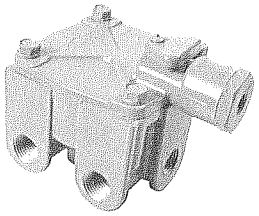


Part No.	Crack Pressure
103028	4.0 PSI
103833	7.5 PSI
106313	5.5 PSI

- (2) 1/2" PT delivery ports located on the side of the valve
- (1) 1/4" PT service port
- (2) 1/2" PT supply ports
- (1) 1/8" PT balance port located under the exhaust cover

103028 (Shown)

Bendix R-14H Relay Valve
(Horizontal Mount)



Part No.	Crack Pressure
103010	4.0 PSI
103139	10.0 PSI
103294	5.5 PSI
103835	7.5 PSI
104345	5.0 PSI

- (2) 1/2" PT delivery ports located on the side of the valve
- (1) 1/4" PT service port
- (2) 3/4" PT supply ports
- (1) 1/8" PT balance port located under the exhaust cover

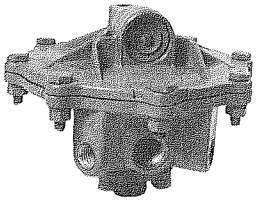
103010 (Shown)

The balance port provides an anti-compounding feature that prevents simultaneous application of the service and parking sides of the spring brake, and allows the valve to control spring brakes and service brakes.

Universal mounting bracket DS296010 supplied with all R-14 relay valves

Universal mounting bracket DS296010 supplied with all R-14 relay valves

Midland Relay Valve



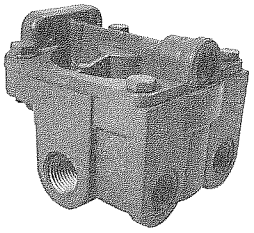
Part No.

KN28010
- (2) 1/4" PT delivery ports
- (1) 3/8" PT delivery port
- (1) 3/8" PT supply port
- (1) 1/4" PT control port

KN28011
- (3) 3/8" PT delivery ports
- (1) 3/8" PT supply port
- (1) 1/4" PT control port

KN28010 (Shown)

Midland Relay Valve • 2 Port Delivery

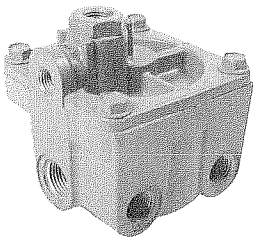


Part No.	Crack Pressure	Delivery Ports
KN28060	4.6 ± 1.5 PSI	(2) 3/8" PT
KN28061	4.6 ± 1.5 PSI	(2) 1/2" PT
KN28132[1]	7.0 ± 1.0 PSI	(2) 1/2" PT

[1] Has a 7 PSI pressure differential and only (1) 1/2" PT supply port
- (2) 1/2" PT supply ports
- (1) 3/8" control port
- Cover may be rotated 360° without affecting performance.

KN28060 (Shown)

Midland Relay Valve



Part No.	Crack Pressure	Delivery Ports
KN28071[2]	4.0 ± 1 PSI	(2) 1/2" PT
KN28140[2]	4.0 ± 1 PSI	(2) 1/2" PT

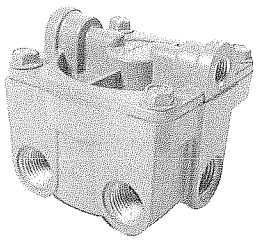
[1] Built in anti-compounding two way check valve that prevents simultaneous application of the service and parking sides of the spring brake, and allows the valve to control spring brakes and service brakes.

[2] Cover rotated 180° and only (1) 1/2" PT supply port and (1) 1/4" PT control port.

KN28071 (Shown)

Midland Relay Valve

Part No.	Crack Pressure	Delivery Ports
KN28065	4.0 ± 1 PSI	(2) 1/2" PT



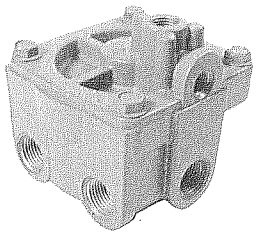
KN28065 (Shown)

Remanufactured
Relay Valves (continued)

Midland Relay Valve

Part No.	Crack Pressure	Delivery Ports
KN28131	4.0 ± 1 PSI	(2) 1/2" PT

- 3 PSI pressure differential
- (2) 1/4" PT control ports
- (2) 1/2" PT supply ports
- Cover may be rotated 180° without affecting performance.

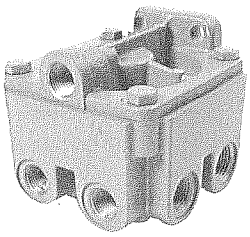


KN28131 (Shown)

Midland Relay Valve • 4 Port Delivery

Part No.	Crack Pressure	Delivery Ports
KN28080	7.0 ± 1.5 PSI	(4) 3/8"PT
KN28085	4.6 ± 1.5 PSI	(4) 3/8"PT

- (2) 1/2" PT reservoir ports
- (1) 3/8" control port
- Cover may be rotated 360° without affecting performance.

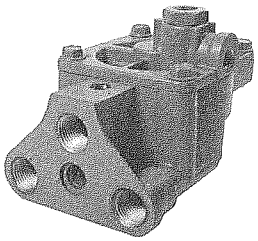


KN28080 (Shown)

Midland Relay Valve

Part No.	Crack Pressure	Delivery Ports
KN28130	4.0 ± 1 PSI	(2) 1/2" PT

- (2) 1/4" PT control ports
- (1) 1/2" PT supply port
- (1) 3/8" PT supply port

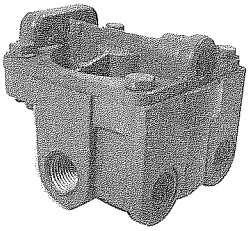


KN28130 (Shown)

Midland Balancing Relay Valve

Part No.	Crack Pressure
KN28300	0 PSI

- (2) 1/2" PT delivery ports
- (2) 1/2" PT service ports
- (1) 3/8" PT control port



KN28300 (Shown)

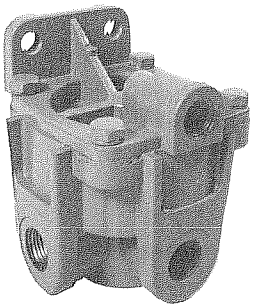
The KN28300 is specifically designed for use on semi-trailer converter dollies. It has a 0 PSI differential between the service and delivery ports. Standard relay valves have a 2 - 4 PSI pressure differential.

Midland/Wagner RG2 Relay Valve

Part No.	Crack Pressure	Delivery Port Size
KN28500(1)	5.5 PSI	3/8" PT
KN28510	5.5 PSI	3/8" PT
KN28520(1)	5.5 PSI	1/2" PT

(1) Includes exhaust excluder for use in high contamination applications.

- KN28500 has (2) 3/8" supply ports
- KN28510 has (1) 3/8" PT supply port and (1) 1/2" PT supply port
- KN28510 has (2) 1/2" PT supply ports



KN28500 (Shown)

Wagner RG2 to Midland Part Number Interchange

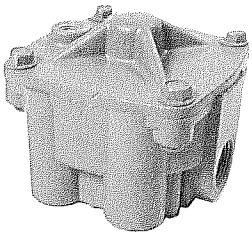
Configuration of ports will vary by Midland OEM number

Plugs may be required on service units to match OEM or original Wagner port configurations.

Wagner Part Number	Midland OEM Number	Midland Service Number
AE78880	N30108AA	KN28500
AE78880	N30108AJ	KN28500
AE78882	N30108AC	KN28510
AE78886	N30108AG	KN28500
AE78887	N30108AH	KN28520
AE78889	N30108AK	KN28510
AE86310	N30108BA	KN28500
AE86311	N30108BB	KN28500
AE86313	N30108BC	KN28510
AE86314	N30108BE	KN28510
AE86318	N30108BD	KN28510
--	N30108BK	KN28510

Remanufactured
Relay Valves (continued)

Midland/Wagner RF Relay Valve

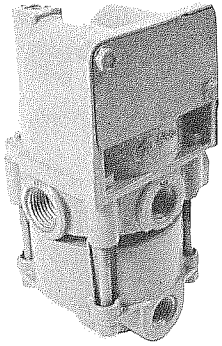


A86473 (Shown)

Part No.	Crack Pressure	Delivery Ports
A86473	4.5 ± 1 PSI	(4)1/2"PT
A86477	4.5 ± 1 PSI	(4)1/2"PT
A103600[1]	4.5 ± 1 PSI	(4) 3/8"PT

[1] Has an auxiliary supply port on the bottom that can be used for other accessories requiring reservoir air.
- (1) 1/4" PT control port
- (1) 3/4" PT supply port (except A86473 which is 1/2" PT)
- Delivery ports face downwards

Midland/Wagner RG4 Tandem Relay Valve

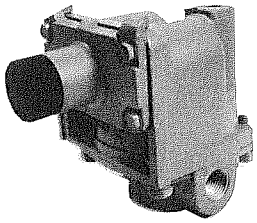


A85490 (Shown)

Part No.	Crack Pressure	Delivery Ports
A85490	5.0 PSI	(4) 1/2" PT
A85493[1]	5.0 PSI	(4) 1/2" PT

[1] Has mounting holes for frame mount otherwise designed for tank mount
- (2) 3/8" PT delivery ports in each section
- (1) 1/4" PT service port in top section
- (1) 1/2" PT supply port in each section

Wagner RS Relay Valve

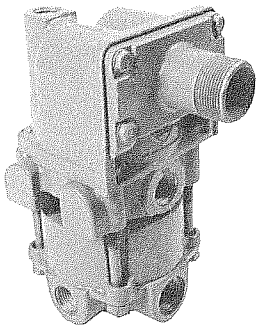


A80070 (Shown)

Part No.
A80070

- (1) 1/4" PT service port
- (1) 1/2" PT reservoir port
- (2) 3/8" PT delivery ports

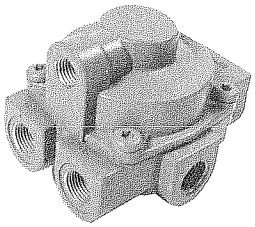
Wagner RS-2 Tandem Relay Valve



A97600 (Shown)

Part No.
A97600

Midland/Berg Relay Valve

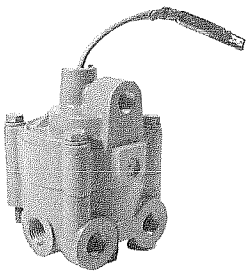


12345 (Shown)

Part No.	Supply Ports	Delivery Ports
12345	(1) 3/4" PT	(4) 3/8" PT
12346	(1) 1/2" PT	(2) 3/8" PT

- (1) 1/4" PT control port

Kelsey Hayes AR Relay Valve



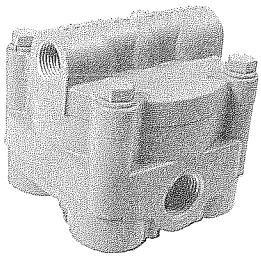
5460 (Shown)

Part No.	Casting Number
5453	9442501 & 2
5454[1]	9607601 & 2
5455	9602501 & 2
5459	9982003 & 5
5460	9889801

[1] Fruehauf-Propar application

Remanufactured
Relay Valves (continued)

Kelsey Hayes 4 Port Relay Valve

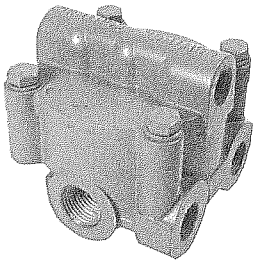


Part No.	Casting Number
5461[1]	998901
5462	9995701
5470	10302501

[1] Fruehauf-Propar application

5461 (Shown)

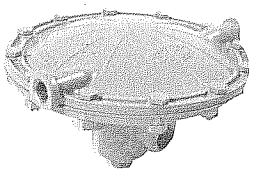
Kelsey Hayes Truck • Tractor Relay Valve



Part No.	Casting Number
5468	9979601

5468 (Shown)

Sealco Relay Valve

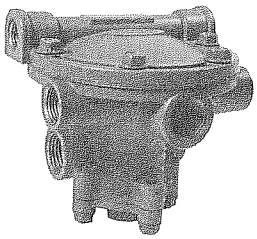


Part No.	Crack Pressure	Delivery Ports
A1100	1.5 PSI	(4) 1/4" PT

- (2) 1/4" PT control ports
- (1) 3/8" PT tank port

A1100 (Shown)

Sealco Relay Valve



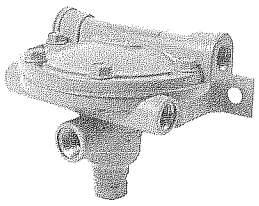
Part No.	Crack Pressure	Delivery Ports
9125	5.5 PSI	(2) 3/8" PT

- (2) 1/4" PT control port
- (2) 1/2" PT supply port
- Height 4 3/16"

Used on both tractor and straight truck applications

9125 (Shown)

Sealco Mini-Relay Valve

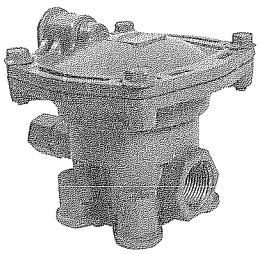


Part No.	Crack Pressure	Delivery Ports
3100	2.5 PSI	(2) 1/4" PT

- (2) 1/4" PT control ports
- (1) 3/8" PT supply port
- Height 3 7/8"

3100 (Shown)

Sealco Relay Valve



Part No.	Crack Pressure	Delivery Ports
110139[1]	4.5 PSI	(4) 3/8" PT
110450[2]	4.5 PSI	(4) 3/8" PT

[1] With ratio
[2] Without ratio

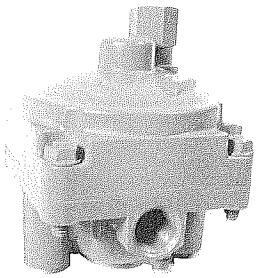
- (1) 3/8" PT supply port
- (1) 3/8" PT control port
- (1) 3/4" tank port

For trailer applications only

110139 (Shown)

Remanufactured
Relay Valves (continued)

Sealco 2 Port Service Brake Relay Valve

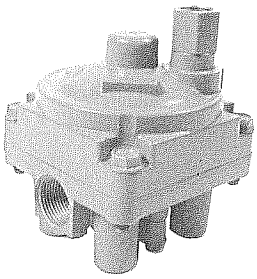


Part No.	Crack Pressure	Delivery Ports
110410	4.0 PSI	(2) 3/8" PT
110412(1)	4.0 PSI	(2) 3/8" PT

(1) Frame mount
- (1 swivel) 3/8"PT control port
- (1) 1/2 " PT reservoir port
- Delivery ports located on the bottom of the valve.

110410 (Shown)

Sealco 4 Port Service Brake Relay Valve

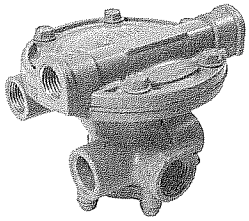


Part No.	Crack Pressure	Delivery Ports
110415	4.0 PSI	(4) 3/8" PT
110416(1)	4.0 PSI	(4) 3/8" PT

(1) Frame mount
- (1 swivel) 3/8"PT control port
- (1) 1/2 " PT reservoir port
- Delivery ports located on the bottom of the valve.

110415 (Shown)

Sealco Trailer Relay Valve



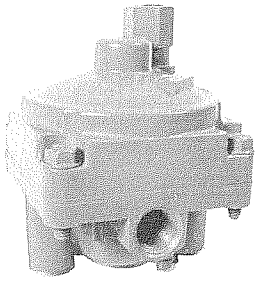
Part No.	Crack Pressure	Delivery Ports
110197	4.0 PSI	(2) 3/8" PT

- (2) 3/8" PT control ports
- (1) 1/2" PT tank port

For trailer applications only

110197 (Shown)

Sealco LOV-2 Service Brake Relay Valve



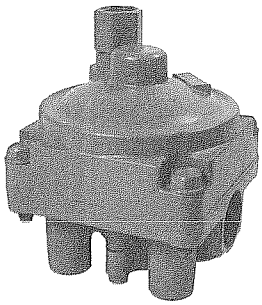
Part No.	Crack Pressure	Delivery Ports
110360	1.5 PSI	(2) 3/8" PT
110365(1)	1.5 PSI	(2) 3/8" PT

(1) Frame mount
- (1 swivel) 3/8" PT control port
- (1) 1/2" PT reservoir port

LOV-2 = Low opening valve for single axle applications.

110360 (Shown)

Sealco LOV-4 Service Brake Relay Valve



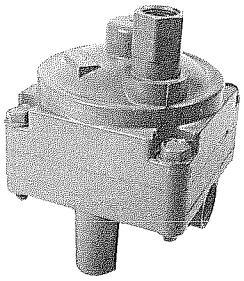
Part No.	Crack Pressure	Delivery Ports
110380	1.5 PSI	(4) 3/8" PT
110385(1)	1.5 PSI	(4) 3/8" PT

(1) Frame Mount
- (1 swivel) 3/8" PT control port
- (1) 3/4" PT supply port

LOV-4 = Low opening valve for tandem axle applications.

110380 (Shown)

Sealco LOV-CF Control Line Valve



Part No.	Crack Pressure	Delivery Ports
110370(1)	4.5 PSI	(1) 3/8" PT
110375	1.5 PSI	(1) 3/8" PT

(1) Frame mount
- (1) 1/2" PT reservoir port
- (1 swivel) 3/8" PT control port
- (1) 3/8" dolly port delivery

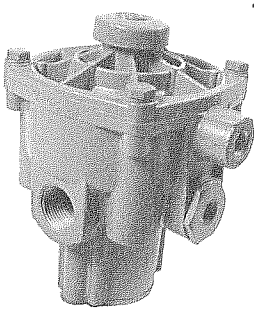
LOV-CF = Low opening valve. Designed to speed up the control line signal to rear trailers.

110375 (Shown)

Remanufactured
Relay Emergency Valves

Relay Emergency Valve *- A dual function valve used on trailers. (1) A relay valve that applies and releases the service brakes. (2) An emergency feature that automatically applies the service brakes in the event that supply air is lost. Normally used on pre FMVSS-121 vehicles and off road applications.*

Bendix RE-4 Relay Emergency Valve (Style A)

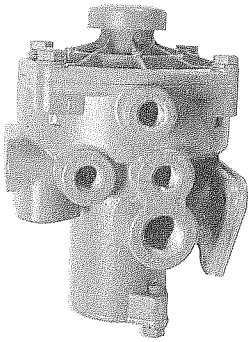


Part No.
277446

(1) 1/4" PT service port
(2) 3/4" PT reservoir ports
(1) 1/4" PT emergency port
(4) 1/4" PT delivery ports or (2) 3/8" delivery ports & (2) 1/4" delivery ports

277446 (Shown)

Bendix RE-4 Relay Emergency Valve (Style B)



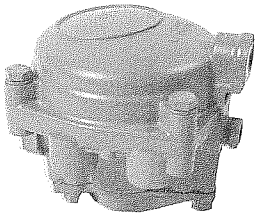
Part No.
229434

(2) 1/4" PT service ports
(2) 1/2" PT reservoir ports
(1) 3/4" PT reservoir port
(2) 1/4" PT emergency ports
(6) 1/4" PT delivery ports

229434 (Shown)

Remanufactured RE-4 Piston &Valve Insert - Part Number 228499

Bendix RE-6 Relay Emergency Valve

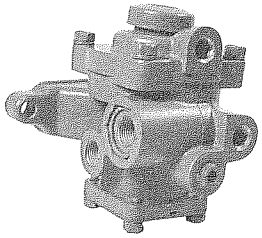


Part No.	Delivery Port (A)
281860	(2) 1/4" PT
281865	(2) 3/8" PT

- (1) 1/4" PT service port
- (1) 3/8" PT supply port
- (1) 3/4" PT supply port
- (2) 1/4" PT delivery ports in addition to (A) shown above.

281865 (Shown)

Bendix R-7 Modulating Relay Valve



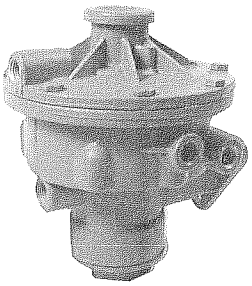
Part No.	Release Pressure
103081	95 PSI

- (1) 1/4" PT control port
- (1) 1/4" PT balance port
- (2) 3/8" PT delivery ports
- (1) 3/8" PT supply port

103081 (Shown)

The R-7 will modulate the spring brakes through application of the foot valve if rear axle service brake pressure is lost. Normal parking functions are also controlled by the R-7.

Midland Emergency Relay Valve



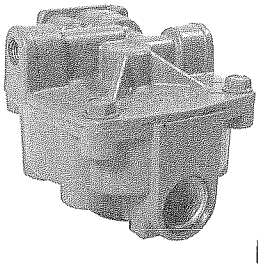
Part No.
KN30010
KN30010N (1)

(1) Nipple Mount - Fruehauf only

- (1) 3/4" PT primary reservoir port
- (1) 1/4" PT auxiliary reservoir port
- (4) 1/4" PT delivery ports
- (1) 1/4" PT trailer emergency port
- (1) 1/4" PT trailer service port

KN30010 (Shown)

Midland/Wagner (EE) Emergency Relay Valve



Part No.	Crack Pressure	Delivery Ports
Charging		
KN30100	4.5 PSI	(4) 1/4" PT
KN30300(1)	4.5 PSI	(4) 1/4" PT
KN30400(2)	4.5 PSI	(4) 3/8" PT

- (1)1/4" PT service inlet
- (1) 1/4" PT emergency inlet

Non charging		
KN30200(1)	4.5 PSI	(4) 3/8" PT

- (1) 3/8" PT service inlet
- (1) 3/8" PT emergency inlet

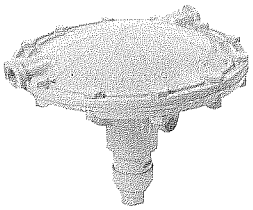
(1) 3/4 nipple reservoir
(2) 3/4 nipple - female reservoir

KN30100 (Shown)

Wagner Part Number	Midland Number	Wagner Part Number	Midland Number
A46229	KN30100	**A71891**	KN30200
A71890	KN30300	**A99036**	KN30400

Remanufactured
Relay Emergency Valves
(continued)

Sealco Trailer Valve



Part No.	Crack Pressure	Delivery Ports
A1000	1.5 PSI	(4) 1/4" PT

- (2) 1/4" PT control ports
- (1) 1/2" PT tank port
- (1) 1/4" PT supply port

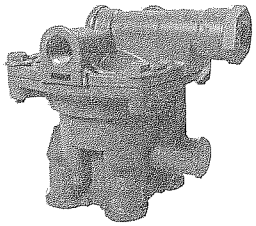
A1000 (Shown)

Remanufactured Cartridge For Sealco A1000

Part No.
1000-5A

1000-5A (Shown)

Sealco Trailer Valve • Relay Emergency Valve
Ratio Relay Emergency Valve



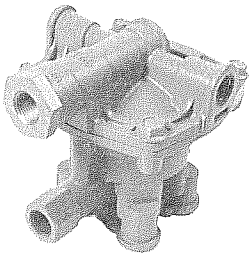
Part No.	Crack Pressure	Delivery Ports
Ratio Relay Emergency Valve		
110200	4.5 PSI	(4) 3/8" PT
110205	4.5 PSI	(4) 3/8" PT
Relay Emergency Valve		
110460	4.5 PSI	(4) 3/8" PT
110470	4.5 PSI	(4) 3/8" PT

Other porting 110200 & 110470
- (1) 1/4" PT emergency supply port
- (2) 1/4" PT service control ports
- (1) 3/4" PT tank port

Other porting 110205 & 110460
- (1) 3/8" PT emergency supply port
- (2) 3/8" PT service control ports
- (1) 3/4" PT tank port

110200 (Shown)

Sealco Dolly Valve
Relay Emergency Valve



Part No.	Crack Pressure	Delivery Ports
110267	5.5 PSI	(4) 3/8" PT
110268 [1]	5.5 PSI	(4) 3/8" PT
110338	4.5 PSI	(4) 3/8" PT

[1] Supply outlet plugged

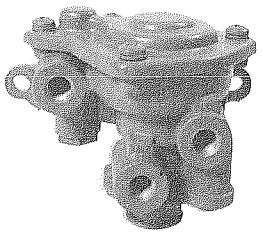
- (2) 3/8" PT service control ports
- (1) 3/8" PT emergency supply port
- (1) 3/4" reservoir port
- (1) 3/8" PT supply outlet

110267 (Shown)

Remanufactured
Spring Brake Valves

Spring Brake Valve - *A dual function valve. (1) Limits hold-off pressure to the spring brakes via a relay or quick release valve, generally 90 - 95 PSI. (2) Should a loss of pressure occur it provides a modulated spring brake application proportional to the service braking pressure delivered to the front axle. Commonly used on post FMVSS-121 systems.*

Bendix SR-1 Spring Brake Valve



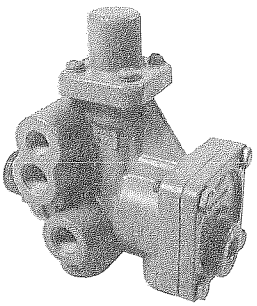
Part No.	Reservoir Trip Pressure
286364	55 PSI
288063	30 PSI

- (1) 1/4" PT delivery port
- (1) 1/4" PT reservoir port
- (1) 1/4" PT control port
- (1) 1/4" PT supply port

286364(Shown)

The SR-1 is normally used on trucks and tractors with dual air brake systems. Parking functions are also controlled through the SR-1.

Bendix SR-2 Spring Brake Valve



Part No.	Reservoir Male Connector Port
287376 [1]	(1) 3/4" PT
102761	(1) 3/4" PT
103061	(1) 1/2" PT

[1] Does not have a trailer service port for anti-compound.

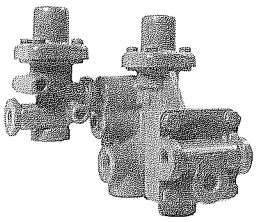
- (4) 3/8" PT delivery ports
- (2) 1/4" PT service reservoir ports
- (1) 1/4" PT trailer supply port
- (1) 3/8" PT exhaust port

287376 (Shown)

The SR-2 is used on trailers with dual air brake systems. It also provides the ability to release the spring brakes at least once prior to their application.

Remanufactured
Spring Brake Valves (continued)

Bendix SR-4 Spring Brake Valve (Early Type)



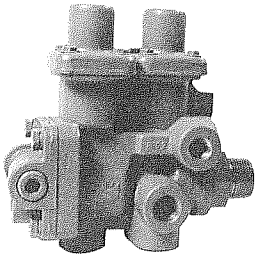
Part No.	Reservoir Male Connector Port
101112	(1) 3/4" PT
101622	(1) 1/2" PT
284460	PR-3 valve

- (4) 3/8" PT delivery ports
- (2) 1/4" PT reservoir charging ports
- (1) 1/4" PT trailer service port
- (1) 1/4" PT trailer supply port

101112 (Shown)

The SR-4 is used on post FMVSS-121 Trailers. It is made up of an SR-4 sub-assembly, a PR-3 valve (284460) and an SC-1 single check valve. **Under no circumstances should the SR-4 sub-assembly be interchanged with the similar appearing SR-2 assembly. They have different operating characteristics.**

Bendix SR-4 Spring Brake Valve (New Type)

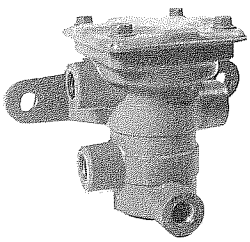


Part No.	Reservoir Male Connector Port
107539	(1) 3/4" PT
108076	(1) 1/2" PT

- (4) 3/8" PT delivery ports
- (2) 1/4" PT reservoir charging ports
- (1) 1/4" PT trailer service port
- (1) 1/4" PT trailer supply port

107539 (Shown)

Midland Inversion Valve



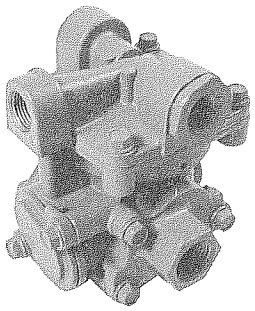
Part No.
KN28030

- (1) 1/4" PT primary reservoir port
- (1) 3/8" PT supply port
- (1) 1/4" PT control port
- (1) 1/4" PT delivery port

KN28030 (Shown)

The Midland inversion valve allows modulated control of the spring brakes in case of primary air system failure.

Midland/Wagner RT-4 Spring Brake Valve



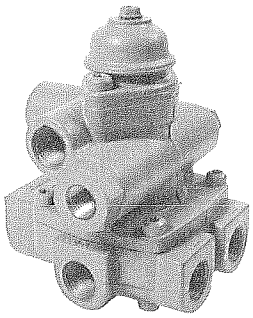
Part No.
KN26000
KN26010

- (4) 3/8" PT delivery ports
- (2) 3/8" PT trailer supply ports
- (1) 1/2" PT reservoir port
- (1) 3/8" PT reservoir port
- The only difference in the two valves is that the cover is rotated 180°.

KN26000 (Shown)

The KN26000 replaces the following Wagner part numbers: AF104001, AF104002, AF104003.
The KN26010 replaces Wagner part number AF104010.

Midland/Berg TASK Valve
Trailer Air Spring Brake Control Valve



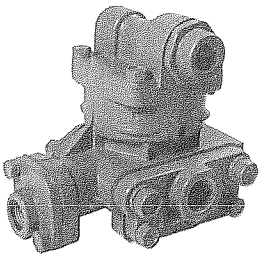
Part No.
12360

- (2) 1/4" PT service inlets
- (1) 1/4" PT emergency inlet
- (1) 3/4" PT supply port
- (4) 3/8" PT delivery ports

12360 (Shown)

The Midland-Berg TASK valve charges the trailer system and the spring brakes. It can be used on single or dual axle systems.

Midland/Wagner RT Trailer Valve
Spring Brake Control



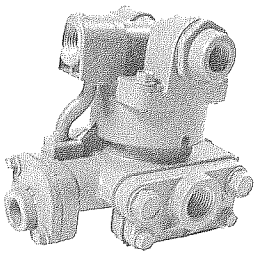
Part No.
A88802[1]
A88812[2]

[1] With anti-compounding
[2] Without anti-compounding

A88802 (Shown)

Remanufactured
Spring Brake Valves (continued)

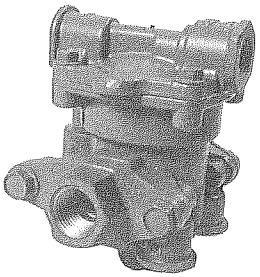
Midland/Wagner RT2 Trailer Valve
Spring Brake Control



A98730 (Shown)

Part No.
A98730[1]
A99370[2]
[1] With anti-compounding
[2] Without anti-compounding

Sealco Ratio Relay Valve
Spring Brake Control



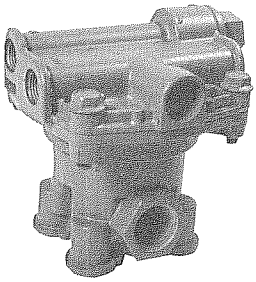
110170 (Shown)

Part No.	Reservoir Port A	Reservoir Port B
110170	1/2" PT	1/2" PT
110171 [1]	1/2" PT	3/8" PT
110191 [1]	3/8" PT	1/2" PT
110310	3/8" PT	1/2" PT
110315	1/2" PT	3/8" PT

[1] Cover rotated 90°clockwise from that shown.

- (1) 3/8" PT control port
- (1) 3/8" PT supply port
- (4) 3/8" PT delivery ports located on the bottom of the valve.

Sealco Ratio Relay Valve
Spring Brake Control



110147 (Shown)

Part No.
110147
110148 [1]
[1] With nipple

- (2) 3/8" PT ports to service reservoir
- (2) 3/8" PT supply or control ports
- (1) 3/4" PT port to isolated reservoir
- (4) 3/8" PT delivery ports

Obsolete Sealco Valves Replacement Part Numbers

Obsolete Part Number	Replacement Part Number	Obsolete Part Number	Replacement Part Number
110120	110147	112305	110171
110126	110139	111190	110170
110140	110147	111191	110191
110180	110170	111192	110191
110190	110170	111193	110191
110230	110171	111230	110171
110305	110171	111305	110171
110192	110191	112170	110170
110193	110191	112171	110171
110311	110310	112180	110170
110312	110310	112190	110170
110316	110315	112191	110191
110317	110315	112192	110191
111170	110170	112193	110191
111171	110171	112230	110171
111180	110170		

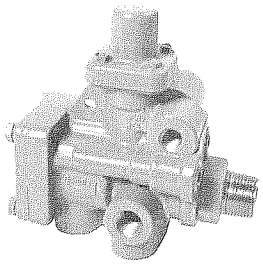
If you detect any errors in this Catalog, please let us know.

We want the information to be as accurate as possible.
we appreciate your help in making it so.

Write or call: **Catalog Corrections**
DS Parts
Rt. 2, Box 172
Bluefield, VA 24605
(888) 302-0140

Remanufactured
Spring Brake Valves (Continued)
(Conforming to new FMVSS-121 performance standards effective October 1, 1992)

Remanufactured Bendix SR-5 Valve



065437 (Shown)

Part No.	Reservoir Port
065437 (1)	3/4" Male PT
065438	3/4" Male PT
065439 (1)	1/2" Male PT
065440	1/2" Male PT

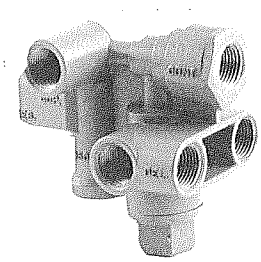
(1) With anti-compounding
- (1) 1/4" PT service/spring brake reservoir port
- (1) 1/4" PT service port
- (1) 1/4 PT trailer service port
- (1) 1/4" PT trailer supply port
- (4) 3/8" PT delivery ports

The SR-5 is similar in appearance to the SR-2, and functions in the system in the same manner, with the exception that it permits the use of a single reservoir on the trailer. Note that the SR-5 has an identification hole punched in the boss between the top of the valve and the trailer exhaust and supply ports.

Remanufactured Sealco Trailer Spring Brake Control Valve

Part No.

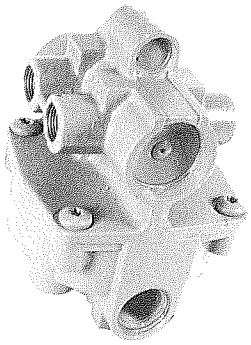
110500



110500 (Shown)

The Sealco 110500 provides anti-compounding, pressure protection, and pressure holding.

Midland Full Function Valve



KN28600 (Shown)

Part No.	Reservoir Port	Crack Pressure
KN28600	3/4" PT	3 PSI
KN28601	1/2" PT	3 PSI
KN28602	3/4" PT	5 PSI
KN28603	1/2" PT	5 PSI

- (2) 3/8" PT spring brake ports
- (1) 3/8" PT supply port
- (1) 1/4" PT control out
- (4) 3/8" PT down delivery ports

Note: A heavy duty walled 1/2" or 3/8" nipple must be used when mounting the Midland FFV.

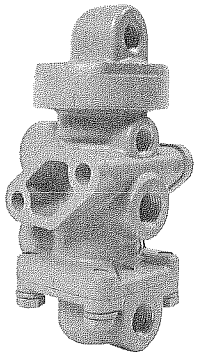
The Midland Full Function Valve can be used with a single airtank,twin tanks or an axle by axle system on trailers. The valve combines a pressure protection valve, two one way check valves, spring brake valve with quick release, and a four port relay valve. Midland Full Function Valves must not be mixed with other service valves on the same trailer.

The Midland Full Function Valve does not release spring brakes until the reservoir is filled. This may take up to 90 seconds. **Do not attempt to drive away prior to full spring brake release. Damage to the foundation brake system may result.**

Remanufactured
Tractor Protection Valves

Tractor Protection Valve - *Protects the tractor air brake system under trailer breakaway conditions and conditions where severe leakage has occurred in the tractor or trailer. The valve is also used to shut off trailer service and supply lines before disconnecting the tractor from the trailer. The tractor protection valve is used in conjunction with a dash mounted control valve.*

Bendix TP-2 Tractor Protection Valve



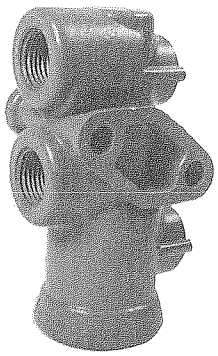
227661 (Shown)

Part No.	Trailer Emergency	Trailer Service
227661	3/8" PT	3/8" PT
227672	1/2" PT	1/2" PT

- (1) 1/4" PT control port
- (1) 3/8" PT tractor service port
- (1) 3/8" PT tractor emergency port
- 3 line - automatic operation

Used on pre FMVSS-121 vehicles in conjunction with TW-1 or PP-1 valves. Regulations require the tractor protection system to function automatically between 20 and 45 PSI as system pressure is reduced. The automatic system to accomplish this is built into the TP-2.

Bendix TP-3 Tractor Protection Valve



279000 (Shown)

Pressure	Trailer Emergency	Trailer Service
279000	1/2" PT	1/2" PT
279962	3/8" PT	3/8" PT

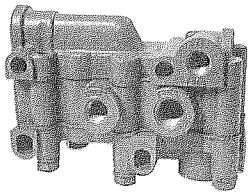
- (1) 1/4" PT tractor emergency port
- (1) 3/8" tractor service port
- 2 line non-automatic operation

Used on post FMVSS-121 vehicles in conjunction with PP-3 or PP-7 valves. Regulations require the tractor protection system to function automatically between 20 and 45 PSI as system pressure is reduced. The automatic system is in the PP-3 or PP-7 located in the cab of the vehicle.

Remanufactured
Tractor Protection Valves
(continued)

Bendix TP-4 Tractor Protection Valve
Formerly VM-1 Control Valve Manifold

Part No.
288301

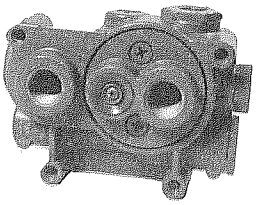


The TP-4 is used exclusively on Ford "L" model tractors and combines several functions. It is a combination of a tractor protection valve and two double check valves. This valve allows either of the two service brake circuits on the vehicle to apply the trailer brakes. It is used in conjunction with a PP-3 or PP-7 to perform the normal functions of a tractor protection valve. Porting for the installation of the stoplight switch, front axle limiting valve and the trailer emergency stoplight switch is incorporated in the valve.

288301 (Shown)

Bendix TP-5 Tractor Protection Valve
Formerly VM-2 Control Valve Manifold

Part No.
288605

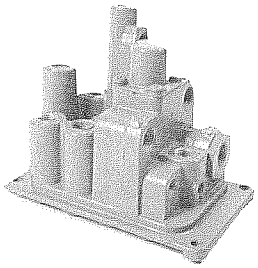


The TP-5 performs all of the functions of the TP-4. In addition it includes a quick release feature for the trailer service line.

288605 (Shown)

Bendix VM-3 Manifold Valve

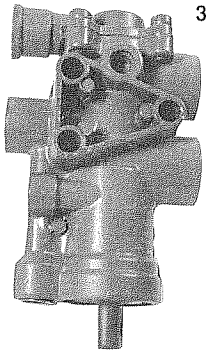
Part No.
288645



288645 (Shown)

The VM-3 incorporates a pressure protection valve (PR-4) and a double check valve that allow it to function as a control manifold. It provides a central location for air lines passing between the cab and the engine compartment.

Midland Tractor Protection Valve
3 Line Automatic Style



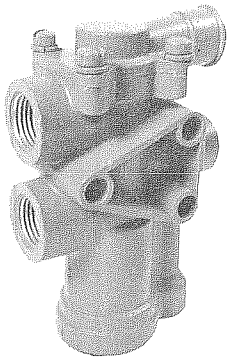
Part No.
KN34050 With exhaust snorkel
KN34070 Includes 1/8" PT stoplight switch port

KN34050 (Shown)

The Midland tractor protection valve incorporates a quick release function. The exhaust snorkel minimizes in cab noise by exhausting the trailer lines outside the cab.

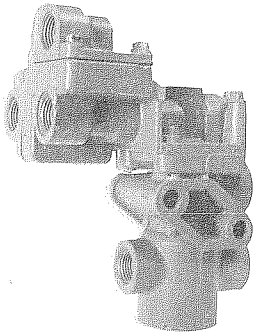
Midland Tractor Protection Valve
2 Line Non-Automatic Style

Part No.
KN34030



KN34030 (Shown)

Midland Tractor Protection Valve
Manifold Non-Automatic Style



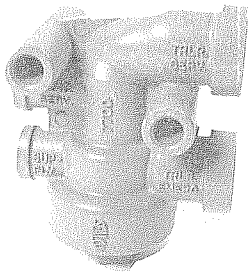
Part No.
KN34080 Fits Ford vehicles
KN34090 Fits Navistar vehicles

The Midland manifold style two line tractor protection valve includes the following functions: tractor protection, two double check valves, stoplight switch port, and built in quick release valve.

KN34080 (Shown)

Remanufactured
Tractor Protection Valves
(continued)

Sealco Breakaway Valve



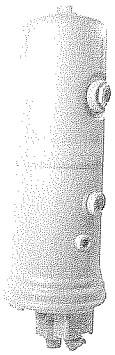
Part No.
7700
- (1) 1/4" PT Control in
- (1) 1/4" PT Supply in
- (1) 1/2" PT Control out
- (1) 1/2" PT Supply out

7700 (Shown)

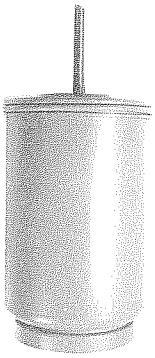
Remanufactured
Air Dryers & Cartridges

Air Dryers and Cartridges - *Desiccant style air dryers are basically in line filters that removes both liquid and vapor from compressor discharge air before it reaches the reservoir. As a result, only clean, dry air is supplied to the air system. This helps prevent freeze-ups and prolongs the life of air system components.*

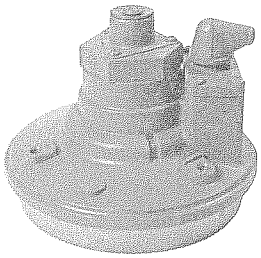
Bendix AD-2 Air Dryer



AD-2 Air Dryer
(Shown)



AD-2 Cartridge
(Shown)



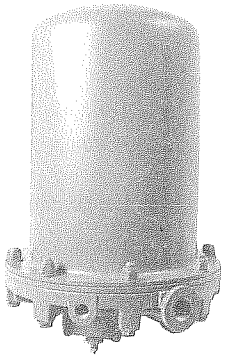
AD-2 End Cover
(Shown)

AD-2 Air Dryer
Part No.
286934 12V
286936 24V

AD-2 Desiccant Cartridge
Part No.
101900

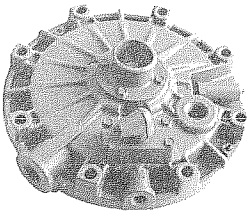
AD-2 End Cover
Part No.
286875 12V
286876 24V

Bendix AD-4 Air Dryer



AD-4 Air Dryer
(Shown)

AD-4 Cartridge
(Shown)



AD-4 End Cover
(Shown)

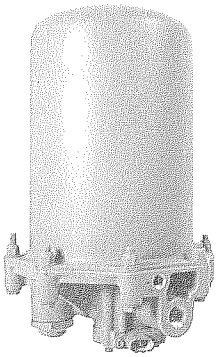
AD-4 Air Dryer
Part No.
065041 12V
065040 24V

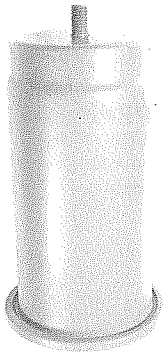
AD-4 Desiccant Cartridge
Part No.
104358

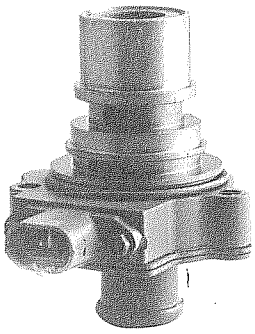
AD-4 End Cover
Part No.
065044 12V
065043 24V

Air Dryers

Remanufactured
Air Dryers & Cartridges (Continued)


AD-9 Air Dryer
(Shown)


AD-9 Cartridge
(Shown)


AD-9 Purge Assembly
(Shown)

Bendix AD-9 Air Dryer

AD-9 Air Dryer
Part No.
065225 12V
065224 24V

AD-9 Desiccant Cartridge
Part No.
107794

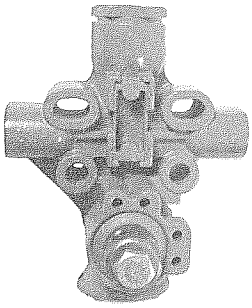
AD-9 Purge Assembly
Part No.
107896 12V
109695 24V

Air Valves

Remanufactured
Leveling Valves

Midland Leveling Valve

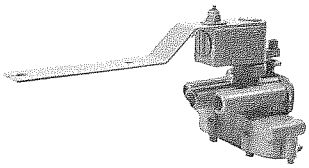
Part No.
KN27200


KN27200 (Shown)

Supplied without mounting hardware

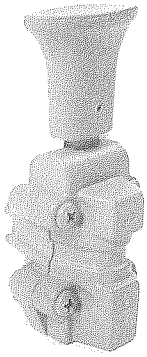
Neway Leveling Valve

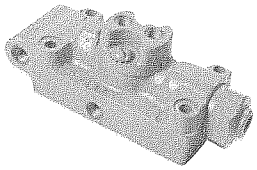
Part No.
90054007

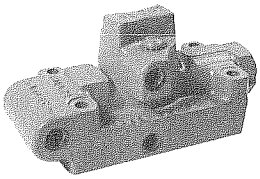

90054007 (Shown)

Supplied without mounting hardware

Remanufactured
Fuller Transmission Control Valves


A3546 (Shown)


A3547 (Shown)


A3991 (Shown)

Fuller Transmission Valves

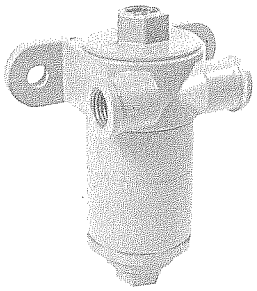
Part No.

A3546	Shift Valve
A3547	Range Selector Valve
A3991	Range Selector Valve
A4668 [1]	Range Selector Valve

[1] The A4668 is similar in appearance to the A3991

Remanufactured
Miscellaneous Air Valves (continued)

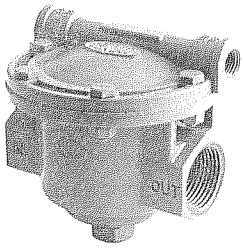
Remanufactured
Sealco Sludge Remover Valve



Part No.
6300
- All ports 1/4" PT

6300 (Shown)

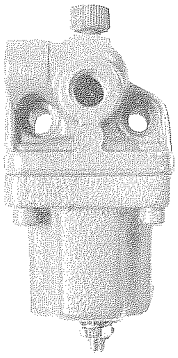
Sealco Air Starter Valve



Part No.
6900
- (1) 1" PT Inlet
- (1) 1/4" PT Application port
- (1) 1" PT Outlet

6900 (Shown)

Remanufactured
Cummins Fuel Solenoid Valve



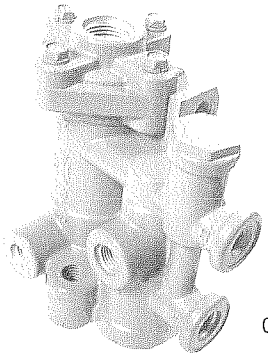
Part No.
12 Volt Application
BM69973-12

24 Volt Application
BM69973-24

BM69973-12 (Shown)

Remanufactured
Hydraulic Control Valves

Bendix HR-1 Hydraulic Relay Valve

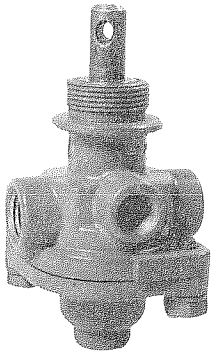


Part No.
065060
- (1) 7/8" UNS exhaust port
- (1) 7/16" UNF delivery port
- (1) 7/16" UNF push pull delivery port
- (1) 7/16" UNF control port
- (1) 9/16" supply port
- (2) 1/2" UNC mounting holes

065060 (Shown)

The HR-1 hydraulic relay valve is used on hydraulic brake equipped trucks that have a separate and independent hydraulic spring brake system. It is a control point that reduces and directs hydraulic pressure to and from the spring actuated parking brakes. It is used with the HPP-1 hydraulic control valve.

Bendix HPP-1 Hydraulic Control Valve



Part No.
065077

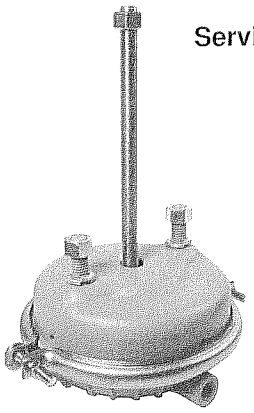
- (1) 1/8" PT supply port
- (2) 1/8" PT delivery ports
- (1) 1/8-27" PT exhaust port

065077 (Shown)

The HPP-1 is an on-off, manually operated valve. Its is not automatic and requires manual operation regardless of delivery or supply pressure.

Remanufactured
Air Brake Actuators

Air Brake Actuator - Transforms compressed air into mechanical force and motion. For example, in a cam-brake system a push-rod actuates the foundation brake system that forces brake shoes against a brake drum. Brake actuators are available in several different "types" and combinations that provide a variety of output forces and functions. "Type" refers to the effective diaphragm area in square inches.

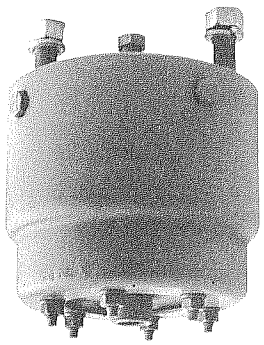


SC30 (Shown)

Service Chambers

Part No.	
SC09	Type 9 Service Chamber
SC12	Type 12 Service Chamber
SC16	Type 16 Service Chamber
SC20	Type 20 Service Chamber
SC24	Type 24 Service Chamber
SC30	Type 30 Service Chamber
SC36	Type 36 Service Chamber

Bendix Roto-Chambers

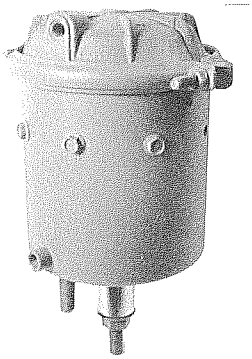


229816 (Shown)

Part No.	
229814	Type 9 Roto Chamber
229815	Type 12 Roto Chamber
229816	Type 16 Roto Chamber
229817	Type 20 Roto Chamber
229818	Type 24 Roto Chamber
229819	Type 30 Roto Chamber
229820	Type 36 Roto Chamber

Some Roto-Chambers are only available on a remanufacture and return basis - call for availability.

Midland/Maxi-Brake Spring Brake Actuators

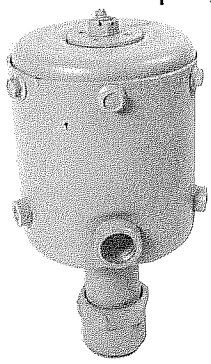


MA15774 (Shown)

Part No.	
MA15770	KSM2050 Chamber
MA15771	KSM2060 Chamber
MA15772	KSM2075 Chamber
MA15773	KSM2450 Chamber
MA15774	KSM2460 Chamber
MA15775	KSM2475 Chamber
MA15776	KSM3060 Chamber
MA15777	KSM3075 Chamber
MA15778	KSM3660 Chamber
MA15779	KSM3675 Chamber

Some Midland/Maxi-Brake Actuators are only available on a remanufacture and return basis - call for availability.

Midland/Maxi-Brake "H" Series Hydraulic Spring Set Parking Brake



MA15500 (Shown)

Part No.	
MA15500	KSH101A

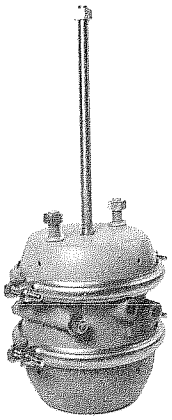
The "H" Series Parking Brake is used on Ford medium duty trucks with Lucas Girling rear drum brakes. It operates similarly to a spring brake in that the parking brake will engage in the absence of hydraulic pressure. It can also be engaged manually. The unit has a built in "cage-release" bolt.

The Midland/Maxi-Brake "H" series Parking Brake is available remanufactured exchange.

DS Parts "Universal Remanufactured" Piggy Back and Tandem Springbrakes

The **DS Parts** "Universal Remanufactured Springbrake" is supplied unbranded. It includes the following features:

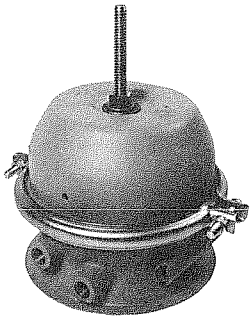
- New Clamps
- New Caging Tool
- New Pushrod & Nut
- Lo-Temp Heavy Rubber Diaphragm



3030T (Shown)

(1) Special Mack Applications

Part No.	Type Service	Type Emergency
0912T	9	12
0916T	9	16
1212T	12	12
1216T	12	16
1624T	16	24
2024T	20	24
2424T	24	24
2424TM(1)	24	24
2430T	24	30
3024T	30	24
3030T	30	30
3030TM(1)	30	30
3036T	30	36
3636T	36	36



3030PB (Shown)

Part No.	Type Service	Type Emergency
0912PB	9	12
0916PB	9	16
1212PB	12	12
1216PB	12	16
1616PB	16	16
1624PB	16	24
2024PB	20	24
2424PB	24	24
2430PB	24	30
3024PB	30	24
3030PB	30	30
3036PB	30	36
3636PB	36	36

OEM #	Aftermarket #	OEM #	Aftermarket #	OEM #	Aftermarket #	OEM #	Aftermarket #
Caterpillar		4W2071	103764	9L0584	227321	Detroit Diesel	
		532592	284612	9L0866	227327		
1 N2992	103278	5D1421	277144	9L1414	227327	5100886	286543
1 N2995	103274	5D1461	229434	9L2190	277694	5101017	286538
1 P5010	277730	5L3463	229990	9L3293	279995	5101018	286539
1 P5011	284003	5L5542	227323	9L3613	280540	5101403	286530
1P5012	283996	5L8552	229990	9L4092	284010	5101404	286526
1P5013	277731	5M8271	277730	9L4104	284068	5101406	286532
1S2024	227407	5T1730	102626	9L4579	227327	5102066	286578
1W3740	289349	5T5493	103009	9L5368	279995	5138834	276136
1W5840	286584	5T5911	065309	9L5369	284010	5138835	276961
1 W6473	102674	5T7242	103009	9L5408	284310	5144300	276136
1 W7145	286584	5X0264	102626	9L6312	289350	5144301	276778
1 W7146	KN13151	5X4632	229666	9M0403	277731	5144302	276961
1W8939	275491	5Z0898	284260	9N2338	286551	5144303	276962
2D3331	229666	5Z918	279995	9N2619	282076	5144304	279662
2N7631	284260	620517	228429	9N2653	289349	5144305	280570
2N7633	284262	624637	277863	9N2779	289172	5145614	227408
2N7635	284252	6B9664	284142	9N5447	289349	5145615	227409
2P1830	284790	6D1039	280758	9N5789	286546	5145616	227331
2P7785	285209	6D3943	104158	9S6313	283996	5145617	227332
2P7800	102674	6N6090	286580	9S9742	289532	5145618	283644
2S2764	277731	6N6852	286549	9S9743	289532	5145619	228479
2S4011	275491	6N7582	286584	9S9743	289534	5145620	283664
2S4012	275491	6W7075	286171	9U4539	286171	5147431	285252
2W0582	102742	7E2303	107526	9Y5722	107296	5148317	279384
2W5134	101884	7E3879	107526	9Y6695	106915	23505234	107622
2W5135	289349	7E4059	109348	9Y8061	107526	23505235	107623
2W5263	104044	7E4239	286580	9Y8879	289350	23507257	289350
2W6835	289336	7E6807	286584	9Y9943	107296	23511334	KN13053
2W9270	104042	7E7619	107508	OR2886	103278	23511735	108110
2Z4217	276269	7E7739	286552	OR2887	104583	23516840	109429
4D0383	229666	7E7740	103274	OR2889	101884		
4D1466	103009	7J7235	281865	OR2890	289336	Ford	
4D3279	276273	7L6312	289350	OR2891	108223		
4D4779	276270	7M9653	227320	OR2896	286593	C2TA2875E	283508
4D7695	281946	7N4014	286546	OR2897	106878	C4TA2875A	228366
4N1563	285131	7N6771	286592	OR2898	106770	C4TA2875B	277127
4N2026	284974	7N7700	286593	OR2899	107533	C4TS2575B	217698
4N3926	275707	7S4340	275491	OR2900	286546	C5TA2875A	279037
4N3927	289534	7S8336	277730	OR2901	107534	C6TA2A435A	277147
4N5879	284260	7W2071	103764	OR2902	103274	C6TA2A449A	279180
4N6954	286546	7W4020	104583	OR2903	107532	C6TA2A747A	276270
4N7378	286552	7W6882	286622	OR2906	284012	C6TA2A747B	276269
4N7634	227407	8D0239	276270	OR2907	102674	C7TA2875A	279865
4N7907	275707	8D6833	279750	OR3391	107981	C7TA2875E	279865
4N9679	275707	8L3565	277694	OR3403	107526	C7TA2875F	277127
4N9680	275491	8L3566	284030	OR3405	109336	C7TA2875G	279037
4P0586	107023	8L5049	278416	OR3410	107806	C7TA2875H	228366
4P0596	107981	8L8549	282025	OR3411	107043	C7TA2875J	228366
4P0619	107917	8M1181	229505	OR3415	289336	C7TA2875K	279037
4P0676	107509	8S0894	281622	OR3416	108651	C7TA2875L	277127
4P2133	107296	8S3356	281927	OR3659	107509	C7TA2885B	275491
4P2419	107981	8S3921	275707	OR3845	109861	C7TS2875A	280624
4P3956	107981	8S4637	283530	OR4382	109603	C7TS2A208A	229635
4P5418	108983	8S8915	283530	OR8256	109273	C8HA2875A	277127
4P5433	107526	8W6908	289148	OR8328	109603	C8HA2875B	228366
4P5435	107981	8W7597	229813	OR8340	5002984	C8HA2875C	227323
4P6041	108990	9C4441	101100	OR8712	109147	C8TA2875B	227402
4V2786	286171	9D0341	286093			C9HA2875A	277127

OEM #	Aftermarket #	OEM #	Aftermarket #	OEM #	Aftermarket #	OEM #	Aftermarket #
C9HA2875B	228366	D6HA2875BA	286565	E4HT2875DA	286591	F1HT2875BB	107514
D0HA2A131A	281924	D6HT2875EA	286585	E4HT2875EA	286591	F1HT2875CA	106985
D0HA2A270C	284760	D6HT2875FA	101142	E4HT2875FA	286591	F1HT2875DA	107221
D0HA2A435A	277148	D7HA2B200	288605	E4HT2875GA	286591	F2HT2A270AA	065395
D0HA2A449A	283940	D7HS2A208BA	289144	E4HT2875HA	286585	F3HS2A449AA	103009
D0HA2A622G	283040	D7HT2875B1A	286543	E4HT2875JA	101142	F3HS2A449BA	065146
D0HA2B445C	284760	D7HZ2885A	275491	E4HT2875KA	289688	F3HT2A449AA	065145
D0HA2875B	227402	D8HS2885AA	275491	E4HT2875LA	289688	F3HT2K1199AA	289714
D0HA2875C	283513	D8HS2B431AA	103081	E4HT2875MA	289688	F4HT2B200AA	288301
D0HA2875E	227323	D8HT2A270BA	287564	E4HT2875NA	286539	F6HT2A270AA	065313
D0HA2875F	227402	D8HZ2A131A	281923	E4HT2875RA	286591	F6HT2A270AB	065313
D0HA2875H	283513	D8HZ2A208A	289144	E4HT2875SA	289688	F6HT2B912BB	065225
D0HA2875J	283046	D9HS2875AA	101158	E4HT2A449AA	065060		
D0HA2875K	280570	D9HS2875BA	276777	E4HT2A449AD	065060	Freightliner	
D0HA2875L	283514	D9HS2A131FA	284412	E4HZ2A449A	065060		
D0HA2875M	276961	D9HS2A131EA	289976	E5HT2A131CA	284795	4317715	065225
D0HZ2885A	275491	D9HT2A131A	281924	E5HT2A131DA	284412	6804290144	065215
D0HZ2A095A	229859	D9HT2A131BA	281923	E5HT2A449CA	065060	6804310105	065313
D0HZ2A270A	284760	D9HT2A270AA	286171	E5HT2A449CB	065060	6811300215	289342
D0HZ2A270AA	284760	D9HT2875AA	286591	E5HZ2K806C	065316	6811300315	286543
D0TZ2885A	275491	D9HT2875AC	286591	E6HT2875BA	286585	6814291344	065146
D1HA2875AA	281603	D9HT2875BA	289688	E6HT2875DB	103211	6814291544	103835
D1HA2875CA	277127	D9HT2A270AA	286171	E6HT2875EA	102989	6814300781	065187
D1TA2875BA	279037	D9HZ2A270A	286171	E6HT2875FA	104041	6814310005	286171
D2HZ2A131A	284412	DOHZ2A095A	229859	E6HT2A449AA	103009	6814310016	103946
D2HZ2A270A	284760	DOHZ2A270A	284760	E6HZ2A449B	103009	6814310115	065225
D3HA2A622AA	283040	E0HS2875DA	101158	E7HS2A449AA	065125	6814310205	065185
D3HS2A131AA	281924	E0HT2875HA	286558	E7HT2875AA	286526	6814310315	065225
D3HS2A622AA	229635	E0HT2875JA	286561	E7HT2875BA	104041	6814310615	065225
D3HZ2A622A	283040	E0HT2875LA	286585	E7HT2875BB	104041	6814320107	284795
D5HA2A435AA	286500	E0HT2A270AA	287564	E7HZ2A095A	229860	802339	286171
D5HA2A449AA	286371	E0HT2A270BA	287564	E8HT2875AA	106278	802349	288605
D5HA2B431AA	286364	E0HZ2A131B	284412	E8HT2875AB	106278	A1213004000	286171
D5HA2875AAA	286539	E1HS2875BA	102598	E8HT2875BA	103211	K03541	217698
D5HA2875ABA	286538	E1HT2875AA	289688	E8HT2875BB	106985	S10211	289925
D5HA2875ACA	286565	E1HT2875AK	286543	E8HT2875CA	286591		
D5HA2875ADA	286539	E1HT2875JB	286542	E8HT2875DA	102989	Kenworth	
D5HA2875AFA	277127	E2HT2B431AA	103081	E8HT2875EA	286526		
D5HA2875AGA	101242	E2HT2875AA	286542	E8HT2875FA	107221	K295-127	287278
D5HA2875FA	286556	E2HT2875BA	286591	EDD0HA2A270C	284760	K295-130	286371
D5HA2875GA	286556	E2HT2875CA	286591	EDE0HT2A270AA	287564	K295-181	289149
D5HA2875UA	286565	E2HT2875DA	286591	EDE0HT2A270BA	287564	K295-3021	286171
D5HA2875VA	286526	E2HT2875EA	286565	EDE5HT2875FA	104041		
D5HA2875YA	286561	E2HT2875FA	286585	EDEOHT2A270BA	287564	Navistar/International	
D5HA2875ZA	286558	E2HT2875GA	101142	EIHT2875AA	289688		
D5HA2A270BA	286171	E2HT2875HA	289688	EOHS2875AA	289789	13943H	EL13111
D5HZ2A270B	286171	E2HT2875JA	289688	EOHS2875BA	289789	183721H1	227332
D5HZ2B431A	286364	E3HT2875AA	102074	EOHS2875CA	101158	97191R91	KN22020
D5TA2875CA	101246	E3HT2875BA	102989	EOHS2875DA	101158	97193R91	KN7030
D5TA2875DA	286562	E3HT2875DA	286591	EOHT2875CA	286539	97193R91	227404
D5TA2A270AA	287564	E3HT2875EB	286542	EOHT2875FA	289688	97196R91	EL13111
D5TA2A270BA	287564	E3HT2A449AA	103009	EOHT2875HA	286558	99078C91	KN25040
D5TA2B200AA	288239	E3HT4484AA	229635	EOHT2875JA	286561	113690R91	KN12040
D5TA2K119AA	278614	E3HT4484BA	107290	EOHZ2A131A	284795	120369R91	KN12040
D5TABA208BA	101278	E3HZ2A449A	103009	EOHZ2A131B	284412	124449R93	287520
D5TZ2951A	288239	E4HS2A131BA	065225	EOHZ2A270A	287564	127185R92	KN40000
D5TZ2A270A	287564	E4HS2A131CA	065225	EOHZ2A270B	287564	130573R91	EL13060
D5TZ2A270B	287564	E4HT2875AA	103074	F0HT2A270AA	065395	130573R91	283690
D5TZ2K119A	278614	E4HT2875BA	102989	F1HT2875AA	107866	143018R91	KN7030
D6HA2875AA	286565	E4HT2875CA	289688	F1HT2875BA	107514	149628R91	227404

OEM#	Aftermarket#	OEM#	Aftermarket#	OEM#	Aftermarket#	OEM#	Aftermarket#
149628R91	KN7030	306376C92	KN7060	398569C91	KN7060	459009C91	288383
149640R92	KN12050	308476C91	KN12151	398569C92	KN7060	459271C92	288063
163294R91	KN12050	317205C91	KN32000	398570C91	283426	466890C91	KN34050
177696R91	KN18000	319365C91	KN12091	398571C91	283429	467356C91	KN20540
177705R92	KN18500	319371C91	228479	398572C91	227406	467418C91	EL13090
177705R93	KN18500	321309C91	KN12180	398573C91	227407	467418C91	286542
179022R91	KN7030	321309C92	KN12180	400668C91	KN12171	467876C91	EL13020
179022R91	227404	326402C91	280565	400668C92	KN12171	467876C91	283690
183721H1	227332	326668C91	KN7020	400669C91	KN12151	468579C91	EL13050
184291R92	KN40010	327438C91	KN12060	400669C92	KN12151	468579C91	286540
188809R91	KN7140	330626C91	KN12171	400670C91	KN12081	473794C91	KN32010
201012R91	KN31080	326668C91	289818	400671C91	KN12060	475990C91	288383
210138R91	KN34010	337806C91	KN7010	400672C91	KN12070	4763569C91	KN20540
218869R91	KN20500	337806C91	289819	400673C91	KN12091	476521C91	EL13020
219025R91	KN20500	338440C91	281220	400674C91	KN12040	476521C91	283690
221456R92	KN20500	338444C91	KN7010	400675C91	KN12030	476522C91	EL13050
231299R91	KN22060	338900C91	KN12030	400676C91	279069	476522C91	286540
231300R91	KN22040	338444C91	289819	400677C91	279068	476523C91	EL13100
234372R91	KN20500	338916C91	KN20030	400678C91	284959	476523C91	286542
237291R91	KN32000	338976C91	KN20030	400679C91	283453	476524C91	286555
237372R91	KN20500	341495C91	KN22130	400680C91	279072	476524C91	EL13040
238395R91	KN20500	343821C91	KN25020	400681C91	280280	476525C91	EL13020
239659R91	KN25000	341495C92	KN22130	400682C91	281731	476525C91	283690
251178C91	KN22040	343822C91	KN25020	400683C91	279073	477139C91	288383
261187C92	KN12070	343823C91	KN25030	400684C91	279074	479191C92	KN34070
261187R92	KN12070	344807C92	280622	404428C91	KN25020	479537C91	288383
261187C93	EL13020	345328C91	KN25040	404431C91	KN34000	480214C91	EL13120
261187R93	EL13060	346892C91	281086	407276C91	KN20030	480214C91	286546
261187C93	283690	347082R92	278426	408368C92	KN20530	480446C91	EL13100
261187R93	283690	348566C91	KN7010	408424C91	KN12100	480446C91	286542
265743C91	KN31000	348566C91	289819	408428C91	KN25020	480951C91	EL13100
276468C92	KN12070	348821C91	KN25020	408429C91	KN20000	480951C91	286542
276468C93	EL13020	355439C91	KN34070	408430C91	KN22100	481745C91	KN20030A
276468C93	283690	356847C92	280611	408431C91	KN34000	483795C91	KN22140
278668C92	KN7070	356915C91	KN20500	408432C91	KN32030	486661C91	288363
278668C92	289444	359122C91	KN22130	408488C91	276961	490951C91	EL13090
279177C92	KN20500	360423C91	KN34020	409077C91	KN32000	492833C92	288383
280361C92	KN12080	362843C91	KN20520	409874C91	279707	503191C91	EL16040
280607C91	227323	366181C91	227331	409908C91	KN12101	503408C91	EL16050
280688C91	227401	366182C91	KN12070	410987C91	KN18500	503409C91	EL16120
281759C93	227331	366182C92	KN12070	411708C91	284106	507543C91	101781
285086C91	KN12080	366797C91	280790	412082C91	283967	513549C91	KN28010
285086C92	KN12081	366840C91	275777	418255C91	285158	514522C91	KN12030
285238C91	227323	376733C91	KN20050	418256C91	280238	514557C91	KN20520
287668C92	KN7070	377306C91	KN22130	419529C91	KN32000	515294C91	KN20040
287668C93	KN7070	382625C91	KN20030	419530C91	KN32000	515331C91	KN20500
290993C91	KN12060	389563C91	KN22100A	421196C91	KN12131	524932C91	288383
291691C91	KN12151	389875C91	281533	423754C91	279662	526744C91	288383
292495C91	227403	391996C91	280610	423828C91	KN20520	534043C91	289339
292496C91	227321	391997C91	283970	424960C91	KN32010	534043C94	289334
295243C91	KN12171	398566C91	KN7010	424961C91	KN32010	537132C91	EL16100
295243C92	KN12171	398566C91	289819	427591C91	KN12110	540257C91	EL16100
295435C91	KN7040	398567C91	KN7050	428617C91	284699	540514C91	289350
295435C91	227404	398567C91	227403	429670C91	KN40000	540514C93	289350
297763C91	227400	398567C92	KN7050	452950C91	286516	540515C91	101158
300640C92	279707	398567C92	227403	452950C92	286171	540515C93	101158
302508C91	KN12080	398568C91	KN7040	455975C91	KN28060	570287C92	286528
302508C92	KN12081	398568C92	KN7040	459006C91	288383	570291C91	EL13020
304439C91	KN12080	398568C91	227404	459007C91	288383	570291C91	286555
306376C91	KN7060	398568C92	227404	459008C91	288383	570610C91	KN18511

OEM#	Aftermarket#	OEM#	Aftermarket#	OEM#	Aftermarket#	OEM#	Aftermarket#
572059C91	288383	869935C91	KN7020	990184C91	KN12070	997123R91	KN12030
572072C91	101818	869935C91	289819	990185C91	KN12091	997127R91	KN34000
574747C91	101818	869960R91	KN12150	990186C91	KN12040	997153R91	KN12060
574787C91	101818	869960R92	KN12151	990187C91	KN12030	997282C91	EL16050
574788C91	101818	870560C91	276962	990188C91	KN12101	1657974C91	108110
575072C91	101818	873707R91	KN32000	990189C91	KN20030	1657974C92	108110
606128C91	279248	873708R91	KN32030	990187C91	286527	1672563C91	107506
673443C91	284037	873709R91	KN28010	990200C91	KN32010	1672564C91	107506
680867R91	KN20500	874706R92	KN7050	990209C91	KN7010	1675722C91	106439
681187C93	KN12070	874706R92	227403	990209C91	289819	1680209C91	106439
681698R91	KN34000	874706R93	KN7050	99021OC91	KN7040	1684489C91	065303
697586R91	KN31080	874707R91	KN12040	99021OC91	227404	168654C91	106439
754178C91	KN18500	874707R92	KN12040	990271C91	KN7020	1686542C91	108110
764368C92	278614	874707R93	KN7050	990271C91	289819	2003253C93	109111
767257C91	280622	874707R93	227403	990418C91	EL13090		
769577C91	280613	874727R92	KN34040	990418C91	286542	Mack	
769976C91	279838	875691R92	KN34040	990419C91	EL13050		
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770776C91	KN18500	921854R91	KN20500	990420C91	EL13040	20QE1149	277340
777915C92	281923	969960R92	KN12130	990420C91	286555	20QE1189	281923
778063C92	281924	974643R91	KN40000	990421C91	EL13020	20QE1275R	289145
779392C91	KN20500	978080R92	KN20500	990421 C91	283690	20QE1276R	286171
788990C91	KN34020	983188R91	KN31080	9907074R91	KN32030	20QE1276R	KN22140
789205C91	279662	988637R91	275231	9907075R91	KN32020	20QE1277	KN34060
861446R92	KN12030	989483R91	276978	9907076R91	KN28010A	20QE1278R	KN28030
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861447R91	KN7010	990003C91	KN7070	9907078R91	KN22020	20QE1279	289395
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861448R93	KN7040	990012C91	KN7060	997066R91	KN12030	20QE19323-P2	281923
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865751R92	KN20040	990061C91	KN12180	997071 R91	KN25020	20QE2111	225892
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865757R91	KN28010	990123R91	KN12030	997078R91	KN22020	20QE236A	229507
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865759R91	KN22070	990176CP1	289819	997080R91	KN22080	20QE246A-PI	225892
866627R91	KN22040	990177C91	KN7050	997080R92	KN22070	20QE251	229617
866628R91	KN22100	990177C91	227403	997081R91	KN22040	20QE251 A	229617
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866781R91	KN13050	990178C91	227404	997084R91	KN12131	20QE262-P1	228520
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866784R92	KN34040	990180C91	KN12171	997104R91	227403	20QE267-P2	276635
867711R91	KN12030	990181C91	KN12151	997109R91	KN7050	20QE267-P3	276635
869375C91	276778	990182C91	KN12081	997109R91	227403	20QE267A-PI	276635
869711R92	KN12030	990183C91	KN12060	997110R91	KN12040	20QE275-P1	275491

OEM#	Aftermarket#	OEM#	Aftermarket#	OEM#	Aftermarket#	OEM#	Aftermarket#
20QE275-P2	275491	20QE39301	279731	303GB575R-P1	286544	303GB4152R	280860
20QE278-P1	275175	20QE39303	279692	303GB578	EL13111	303GB4154	281078
20QE278-P10	275175	20QE39306R	286171	303GB578R	EL13111	303GB4161-P1	282800
20QE278-P2	275175	20QE397	281923	303GB579	EL16111	303GB4161-P2	282801
20QE278-P3	275175	20QE401R	KN28070A	303GB580-PR1	286544	303GB4161A-P1	282800
20QE278-P4	275175	20QE401R	287260	303GB582R	EL14110	303GB4162-P1	282800
20QE278-P5	275175	20QE401R	287224	303GB584R	EL14110	303GB4162-P2	282801
20QE278-P8	275175	20QE402	KN28140	303GB587	EL13110	303GB4162-P3	284664
20QE284	279998	20QE402	286370	303GB588	102697	303GB4163	227326
20QE291	278480	20QE402	286370	303GB589	289340	303GB4165	277122
20QE3100-P1	281369	20QE410	289395	303GB590	289340	303GB4165-P5	277122
20QE311 OR	286364	20QE419R	KN28070A	303GB1142	227326	303G B4165A	277122
20QE311 OR	286364	20QE47	277446	303GB1148A	227326	303GB4165R	277122
20QE3111	288746	20QE48	279731	303GB1152	229562	303GB4170-P2	285107
20QE3112	275250	20QEA389	281923	303GB1153	227328	303GB4170-P3	285108
20QE3113	275175	20QER365	229501	303GB1159	275317	303GB4170-P4	286221
20QE3114	KN22140	20QR3109R	287276	303GB1160	227323	303GB4170-PI	284307
20QE3114R	286171	2OQE239-P2	227401	303GB1176	227326	303GB4171	280779
20QE3115R	287282	2OQE246-P2	225892	303GB1179	227415	303GB4172	283810
20QE3117	286826	303GB85R-P1	286544	303GB1264	276961	303GB4173	229562
20QE3117-P1	286826	303GB390A	279966	303GB19302	282522	303GB4174	284381
20QE3118R	286171	303GB489A	227326	303GB19306	276961	303GB4176	276946
20QE3120R	286453	303GB489B	227326	303GB3102	281471	303GB4177	284711
20QE3135	KN20580	303GB489-P1	227326	303GB3112	280570	303GB4178	282586
20QE3135-P2	KN20590	303GB490	227415	303GB3112-PZ	280570	303GB4179	285129
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20QE3144	KN34060	303GB494	227328	303GB3119	281471	303GB4181	2852Q5
20QE3166R	289145	303GB494A	227328	303GB3130	286574	303GB4182	285275
20QE3183R	KN22140	303GB494B	227328	303GB3136R	286871	303GB4183	285284
20QE335	227661	303GB554-P1	227326	303GB3137R	286867	303GB4184	285815
20QE338	065154	303GB554-P2	227328	303GB3139R	286528	303GB4185	285827
20QE347-P1	229467	303GB554-P3	229562	303GB390A	279966	303GB4186	284662
20QE347-P2	229467	303GB554-P4	281992	303GB394	279966	303GB4196R	EL13020
20QE349A-P1	275250	303GB554A-P1	227326	303GB4104-P5	277122	317GC412	278416
20QE349A-P2	275250	303GB561-P1	278604	303GB4104A-P5	277122	317GC47-P2	283805
20QE349A-P3	275250	303GB561-P2	278605	303GB4104B-P5	277122	317GC4722	283805
20QE349A-P4	275250	303GB561-P3	278606	303GB4111	227326	317GC47A	283805
20QE350	229501	303GB561-P4	278604	303GB4112	227415	999KB11141	279731
20QE351-P1	229666	303GB561-P5	279556	303GB4112A	227415		
20QE351-P2	275509	303GB561-P6	279556	303GB4115A	229562	Volvo/White/GMC	
20QE351-P2	276273	303GB561A-P1	278604	303GB4120	275834		
20QE351-P3	275509	303GB561A-P4	278604	303GB4131	277799	M547406	281677
20QE351 A-P1	276792	303GB569-P1	282586	303GB4132-P1	277808	Y551797	280962
20QE351 A-P4	276793	303GB569-P2	282620	303GB4132-P2	279321	Y569989	228479
20QE355	227661	303GB569-P3	282586	303GB4133	277901	02-7023363	287411
20QE357	276330	303GB569-P4	283813	303GB4133-P2	283789	02-7023364	284711
20QE358-P1	276272	303GB569A-P1	282586	303GB4133A	283789	3103057	280626
20QE358-P2	277259	303GB569A-P2	282620	303GB4134	279073	487701-A	229505
20QE364	277765	303GB569A-P3	282586	303GB4134-P2	279073	511338	228443
20QE369	KN22100	303GB569A-P4	283813	303GB4134A	279073	5144303	276962
20QE369	229501	303GB570-P1	227326	303GB4135	278416	538359	280962
20QE370	229501	303GB571-P1	278604	303GB4140	278776	541799	280962
20QE372	229501	303GB571-P4	278604	303GB4143	279483	544264	281042
20QE375	279731	303GB572-P1	282586	303GB4148	280501	545282	227320
20QE377	279000	303GB572-P2	282620	303GB4148A	283810	554528	281718
20QE378-P1	278821	303GB572-P3	282586	303GB4149	280779	564393	280611
20QE378-P2	278821	303GB572-P4	283813	303GB4149A	280779	566163	280602
20QE378-P3	288746	303GB572-P5	284662	303GB4152	280860	566254XRL	228443
20QE389	281923	303GB575-P1	286544	303GB4152A	280860	567753	282013

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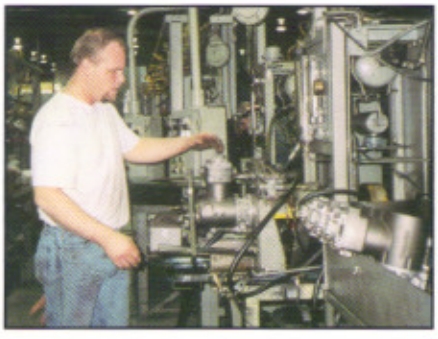
569133	279995	75602-0009	289150				
569545	282749	75602-0010	289147				
573751	283026	78203-0001	286364				
621442A	227409						
621443B	227331						
622700A	227410						
622701 A	227410						
622701 B	227332						
688861	276775						
689244	276476						
7000222	284068						
7002212	284160						
7010634	284718						
7010640	284720						
7100724	280453						
7101850	284259						
7115252	281042						
7116024	584160						
7118271	280556						
879645	229525						
987739	280092						
70001 -0019	101280						
72001-0001	287411						
72001-0002	288267						
72002-0006	287856						
72002-0009	289380						
72002-3201	286171						
72002-3601	287255						
75602-0013	065154						
72807-0001	286500						

Notes

Step 4 - Inspection & Storage After tear down, cleaning, machining, and final inspection, component parts are stored in a clean environment for later use in production. A sophisticated material requirements program assured the availability of the parts needed to produce inventory on a production basis. All parts are again inspected to ensure only those that meet our high standards are used in production.

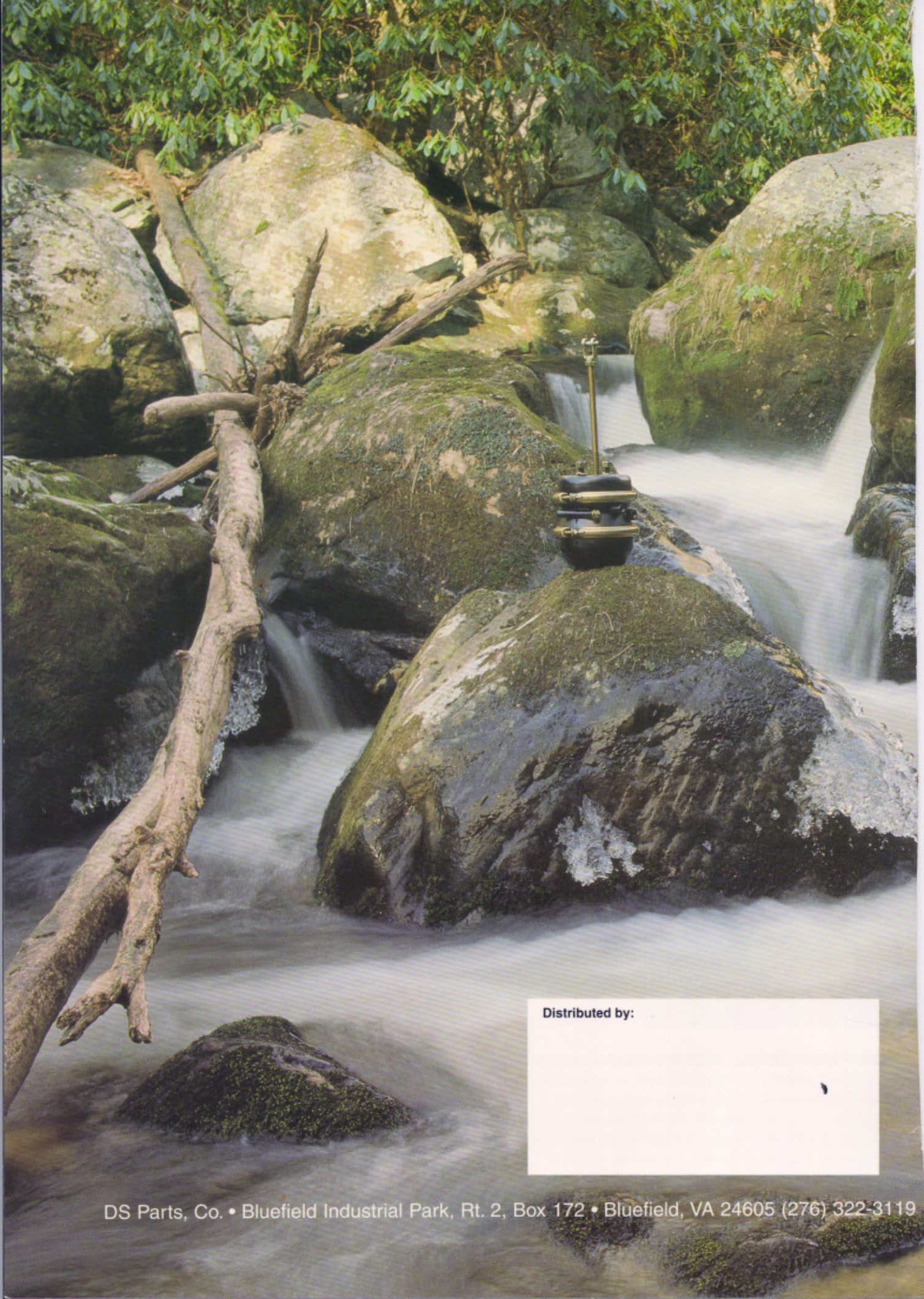
Step 7 - Finished Goods - Painting, Inspection, Packaging and Storage Prior to painting, DS parts personnel plug all ports on valves and compressors to prevent contamination of the part. An inspector verifies that the parts coming into finished goods match the original manufacturer's specifications by part number including port sizes and locations. Only then are the parts received into finished goods inventory available for sale.

Step 5 - Production Assembly & Inspection Skilled technicians assemble the components on a production basis. Once again, the individiual parts used to assemble a valve or compressor are checked to ensure that they meet our tough standards. Every person involved in the DS Parts Quality Assured Process has been trained and has the necessary experience to produce the finest remanufactured air brake products available.



Step 6 - 100% Tested All DS Parts remanufactured products are tested on the finest equipment available ensuring that all operating requirements are met. Every air compressor is dynanometer tested under simulated working conditions. Every valve is also tested to original specifications by part number for crack pressure, pressure differential, and pop-off or hold off pressures as required.

"We believe our customer is number one, and that it is our job to give him the product and service that will continually exceed his highest expectations."



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