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INSTRUCTIONS AND PARTS LIST

DIESEL ENGINE PORTABLE AIR COMPRESSOR

MODEL DR 250 S

Ingersoll-Rand. Revised (10-12)



TP. 12034

INSTRUCTIONS & PARTS LIST

GYRO-FLO

FOREWORD

In preparing this publication, every effort has been made to provide sufficient information to permit an operator to perform his duties so as to receive maximum performance and trouble free service from the compressor. All classes of equipment, regardless of how well built, require a certain amount of attention. The purpose of this publication is to acquaint an operator with the functions, operation and servicing of the various components, which were built with the very best of materials and workmanship, to obtain maximum life from the compressor.

Before starting the compressor, the instructions should be carefully read to obtain a thorough knowledge of the duties to be performed. Take pride in the compressor, keep it clean, and in good mechanical condition. For major servicing, not covered in this publication, consult your nearest Ingersoll-Rand Company Branch Office, or the distributor from whom the compressor was purchased. Correspondence with a branch office, or distributor, must always specify the serial number of the compressor as well as the model. See page 16 for location of unit serial number.

Air Cleaner

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INSTRUCTION SECTION

| Normal Operating Pressure - psi. | | 100 (7.03 kg./sq.cm) |
|-----------------------------------|-----------------|----------------------|
| Actual Delivery - cfm | | 250 (7.08 cu. metre) |
| Full Load Speed - rpm | ••••• | 1800 |
| Approximate No Load Speed - rpm | | 800 |
| Oil Capacity Compressor System - | - Imperial Gals | 10 (45.56 litres) |
| Type of Air Filter | | DA 140 |
| Capacity Fuel Tank - Imperial Gal | ls | 27 (122.8 litres) |
| Electric Starting System - volts | | 12 |
| Overall Length - feet/inches | 2-Wheel | |
| | 4-Wheel | 13' - 9" |
| Length, Parked-feet/inches | 4-Wheel | 10' - 0" |
| Length Less Drawbar | 2-Wheel | 9' - 0'' (275 cm) |
| Width - feet/inches | 2-Wheel | 5' - 10" (175 cm) |
| | 4-Wheel | 5' - 10" (175 cm) |
| Height - feet/inches - All Models | | 6' - 6" (199 cm) |
| | | |

GENERAL DESCRIPTION

The Gyro-Flo Portable Compressor consists of a two-stage rotary air compressor directly connected to and driven by a heavy duty industrial type engine. This unit assembly is mounted on a sturdy, channel section, welded steel frame.

The running gear is a two-wheel or four-wheel spring mounting, having pneumatic tyred wheels. "Less running gear" units are furnished on wooden shipping skids.

Operating accessories include: oil cooler, fuel supply tank, air receiver, oil separator system and the necessary regulating devices instruments, air cleaners, oil filters, etc.

COMPRESSOR

The compressor is two-stage, and is of the sliding vane rotary type. The first stage rotor chamber is supported by a yoke which is bolted directly to the flywheel housing of the engine. The second stage rotor chamber mounts directly in line with, and at the rear of the first stage chamber with a centre bearing housing between the two. A rear bearing housing and main oil pump casing with cover closes the rear end of the second stage rotor chamber. The centre bearing housing also has supporting arms which rest on the mainframe and serve as an additional support to the compressor.

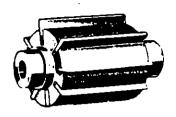
A front bearing, with rotary oil seal, is contained in the yoke. Special end plate inserts are located at each end of each rotor chamber to separate the chambers from the adjacent bearing assemblies and act as end guides for the vanes.

The first and second stage cylinder bores (or rotor chambers) are each offset from the shaft centre line. This causes each cylinder bore to be eccentric to its rotor.

The two rotor chambers have the same cylinder bore diameter, but the first or low pressure stage chamber, and its rotor, is considerably longer than the second or high pressure stage.

The first and second stage rotors are each slotted to receive sliding vanes which are sealed by the copious amount of lubricating

oil fed to the bearings and bores. They are held against the bore wall by centrifugal force when operating.









<u>Fig. 1</u> - Diagram showing compression cycle of the GYRO - FLO.

AIR FLOW

Free air is taken into the first stage chamber through large ports at an area where the vanes are well out of the rotor slots, thus filling the spaces or volumes between the vanes.

As rotation proceeds, the vanes are moved radially inward in their slots by the bore wall. This causes the volume between the vanes to decrease and compresses the air trapped in this space. As this space volume approaches zero, a second series of ports is

uncovered allowing the compressed air to pass on through cast passages to the intake of the second stage rotor chamber. Here the process is repeated, raising the air pressure from the interstage pressure to the final discharge pressure.

OIL FLOW

Relatively cool lubricating oil is admitted under pressure to the precision roller bearings and also is injected in metered amounts, directly to the rotor chambers. The oil passes through the bearings at each end of each rotor, enters the close clearances at the vane ends, and thence to the rotor chambers.

All of the oil thus introduced mixes with, and passes on with the air being compressed. This removes the heat of compression to a large degree and results in an unusually low final air discharge temperature.

The second stage discharge air passes through a connection into a combination air receiver and primary oil separator where the oil is removed from the air and collects in the storage reservoir formed by the lower portion of the combination receiver and separator shell. From there, the oil is forced through piping to an oil cooler assembly. This cooler is located at the radiator end of the portable in such a manner that the engine radiator fan serves to cool both the engine jacket water and the compressor lubricating and cooling oil.

OIL PUMP

The oil pump is located at the rear end of the second stage rotor chamber. The pump is of the positive gear type, with the driven gear of the pump mounted directly on, and driven by a splined rotor shaft extension.

The oil pump receives its supply from the oil cooler through piping and an oil filter. It discharges the oil through internal passages directly to the rotor bearing and chambers.

An adjustable spring-loaded by-pass valve, mounted on the oil separator and connected to the oil pump, prevents any possibility of damage due to over pressure.

When the compressor is operating at low capacity, some of the oil may by-pass the cooler through a thermostatically controlled by-pass valve. This arrangement helps to

maintain a higher average compressor oil temperature thereby reducing the possibility of water vapour condensation in the system. This valve located in the oil piping, by-passes varying amounts of oil, depending on the temperature, until the oil being circulated reaches a temperature of 185°F. (85°C.). At this point, the valve closes the by-pass completely and all of the oil is circulated through the cooler.

GENERAL - AIR END

The first stage rotor chamber intake is equipped with a UL-89 Volumetric Regulator (Fig. 5). The incoming air passes through an efficient two stage dry type air cleaner before entering the regulator and the compressor.

The first stage rotor shaft extends forward to carry an internal-external gear toothed coupling, the outer ring of which is bolted directly to the engine flywheel. This coupling assembly is lubricated and sealed against the entrance of dirt or moisture and provides a certain amount of necessary flexibility.

The second stage rotor is driven through a full floating splined shaft connection from the first stage rotor. In addition, the second stage rotor splined grooves serve to drive the oil pump splined shaft.

Each rotor rides in its own set of caged roller bearings, while the oil pump shaft operates in self-oiled sleeve bushings.

Regulation is 100% from full capacity to zero capacity, and is accomplished by a combination of engine (and compressor) speed reduction together with proportional compressor volumetric regulation.

It is recommended that vane tips be inspected at 2,000 hours or after one year. Vanes should be replaced after 4,000 hours' service or every two years as a matter of routine preventive maintenance. When vanes are replaced, make sure that driving or trailing tips of rotor slots are not razor sharp. They should be slightly rounded. This can be easily done by hand using a fine-grained stone to produce a radius of about 1/64". (.397 mm.).

To make an inspection of the high and low pressure vanes with a minimum removal of parts the following procedure is recommended.

- 1. To inspect low pressure vanes remove UL-89 regulator complete and then "inch" engine over with the starter and inspect vanes through the exposed air intake in cylinder.
- 2. To inspect high pressure vanes remove sheet metal access cover on the back of compressor housing. Remove cap screws that fasten the high pressure outer bearing housing to the cylinder. The housing with oil pump, bearing and outer race, and end plate can now be slipped off and vanes can be slipped out of rotor slots.

INSTRUMENT PANEL

The instruments are located on one panel. Instruments include, discharge air pressure gauge, engine water temperature gauge, engine oil pressure gauge, tacho-hour counter, ammeter, ignition warning light, on-off switch, pushbutton start, pushbutton primer, fuel level gauge and cold start pushbutton (when fitted).

ELECTRIC STARTING

Electric starting is standard and includes starter motor, alternator, relay and battery with necessary wiring and terminals.

AIR - RECEIVER - OIL SEPARATOR

The air receiver - oil separator system consists of a combination primary oil separator and air receiver tank plus a secondary separator tank. Both tanks are made to B.S.S. for welded steel pressure vessels and are designed for 150 psi (10.54 kg/sq. cm.) working pressure.

Removing the cover on the end of the primary separator provides a very large opening through which thorough cleaning and inspection can be performed. An internal strainer in the bottom of the primary

separator tank provides a means of trapping any solids which might be carried by the oil flowthrough the separator outlet pipe toward the oil cooler. This strainer fitting is removable for cleaning. The delivery end of the secondary separator is arranged to provide connections for the minimum pressure valve, service valves, relief valve also the required safety valve and automatic blowdown valve. It is continuously drained of any oil accumulation by a connection at the bottom of the chamber to the inlet of the high pressure cylinder.

FUEL TANK

The fuel tank is mounted longitudinally with the compressor frame. The capacity is 27 Imperial gallons (122.8 litres). The entrance to the outlet tube connection is raised above the tank floor to provide a water and sediment settling space or trap. The low side drain plug should be removed occasionally to draw off any collection of water and sediment.

SPRING MOUNTING

The complete unit is carried on a sturdy two wheel or four-wheel mounting. The mounting has semi - eliptic springs. Pneumatic-tyred disc - type wheels are standard. A drawbar is provided as standard equipment which can be put in parking position on 4 wheel units. A drop leg is provided as standard on the two-wheel mounting only.

LESS RUNNING GEAR

"Less running gear"units are furnished on temporary wooden shipping skids. If customer mounts a "less running gear" unit on other equipment, it is his responsibility to see that the frame is not stressed or warped because of the mounting arrangement. The use of special rubber mounts may be desirable or necessary.

OPERATION

BEFORE STARTING

- Move the portable compressor to level ground and in as clean a location as possible.
- Check the oil level in both the compressor primary oil separator reservoir and the engine crankcase. Add oil if required. (See special instructions under lubrication Page 8).
- 3. Check air cleaner.

- 4. Check that there is sufficient fuel in tank.
- 5. Check engine radiator to see that it is correctly filled with clean, soft water. Use permanent type anti-freeze solution if operating in below freezing temperatures. The use of a commercial rust inhibitor is recommended to prevent internal corrosion of the cooling system.
- 6. With no air pressure in the air receiver and oil separator system, leave service valves and hand relief valve open.

STARTING

The diesel engine starts directly on fuel oil.

 Depress Ignition Toggle Switch to 'ON' position, press starter pushbutton until engine fires, then close service valves.

(Normally the unit can be started with the hand relief valve closed, but in extreme cold weather, it may be advisable to leave the hand relief valve partially open until the engine starts and then close it as soon as possible.)

Engine cold starting device Ford Units — In conditions of extreme cold, push in the excess fuel device located on the fuel injection pump, set the decompressor control in the "up" position, operate the starter motor for a few seconds to break the sealing effect of the cold oil, pull the decompressor lever down to restore compression and operate the starter as for normal starting.

In extreme cold conditions, on Perkins Engines operate the heater glow plug system by depressing push button on Instrument Panel.

The closing of service valves and relief valve causes compressor unloading and results in the minimum load on the engine while it is warming up. It also applies full pressure to the lubricating oil in the storage reservoir. This causes the oil to flow to the oil cooler or through the by-pass valve direct to the oil pump inlet to establish full lubricating pressure in the compressor immediately.

2. When fully warmed up, connect air load to the compressor and open the service valve allowing air demand to regulate output as required.

STOPPING

Close the air service and relief valves, causing compressor to unload and engine to operate at minimum reduced speed until the engine has cooled down sufficiently to prevent the radiator from boiling over, then shut down.

Shut down by returning toggle switch to off position whereupon air pressure will automatically be relieved from the air receiver-oil separator system, by means of the 'Automatic Blowdown Valve' as the compressor stops.

As this occurs the manual relief valve should be opened to further relieve pressure.

Unit should never stand idle with system pressurised.

MINIMUM PRESSURE SERVICE VALVE

This is an automatic valve which maintains a minimum pressure of about 70 psi in the receiver-separator system so as to ensure oil circulation.

Shut-off discharge is accomplished by means of cocks located in panel at towed end of machine

This valve cannot be used as a check valve in any operation where a check valve is required to prevent backflow of line pressure, such as in parallel operation, etc. (Refer to Page 8).

AUTOMATIC BLOWDOWN VALVE

This is an automatic valve to release air from the system when engine is stopped.

MAINTENANCE

COOLING SYSTEMS

ENGINE RADIATOR AND COMPRESSOR OIL COOLER

Keep all core sections of both the radiator and oil cooler clean by using a cleaning solution. Higher efficiency and lower temperatures will result when the external grease and grime and the internal oxidation of the lubricating oil is removed thoroughly.

Use only clean, soft water for filling the radiator. Where the water is known to be hard or alkaline, treat it with a softening compound to prevent formation of scale and rust both in the engine jacket spaces and in the radiator itself.

Freezing of water in the cooling system may result in serious damage. If the unit is to stand idle in freezing temperatures, the only safe plan is to drain the system, unless an anti-freeze solution is used.

Before adding any anti-freeze solution, tighten up all joints in the cooling system and make sure there are no leaks.

Ethylene-glycol solutions are recommended since they are not lost by evaporation and only water need be added to maintain a full system. If any of the solution is lost by leakage, foaming, etc., it must be replaced by new anti-freeze solution.

The entire cooling system must be thoroughly cleaned and flushed before using an ethylene-glycol solution. All hose connections and joints must be kept tight, as any leakage of air into the system may cause acid formation and corrosion.

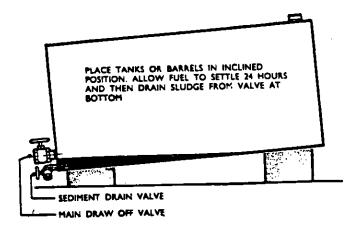
FUEL SYSTEM AND FUEL STORAGE

A cylindrical fuel tank is mounted on the compressor frame. Pilferage is prevented by the lockable housing side covers.

The outlet connection of the tank is so arranged that fuel is taken from a point somewhat above the floor of the tank thus providing a settling space where water and sediment can collect without being drawn into the fuel system. Bottom drain openings are provided for removal of the collected water and sediment. Drain the settlings after each filling of the tank.

Clean fuel is vitally important and every precaution should be taken to ensure the fuel being clean when it is poured or pumped into the supply tanks.

Fuel oils from steel drums and commerical containers often pick up scale, water, and sediment. To properly store fuel oil, use black iron (not galvanised) storage tanks or drums, tightly sealed against water, dust, and dirt. A satisfactory way of installing tanks is shown in the accompanying illustration, Fig. 2.



<u>Fig.2</u>, - Fuel Oil Storage Tank. MARCH'72

Draw settlings from the well at the bottom of the storage tank at frequent intervals and always before drawing fuel for use.

When transferring fuel from the storage tank to the portable supply tanks by other methods than pump and hose, use a funnel which is kept for this purpose only. Wipe the funnel clean each time before using. Do not allow the engine fuel supply tanks to become empty because the genuine fuel pump may loose its prime and be damaged.

PROTECTIVE DEVICES

The compressor is protected against overheating by a thermal switch located in the compressor discharge connection. The switch is of the "normally closed" type and should the temperature of the discharge air rise above 220°F. (104.4°C) to 230°F. (110.0°C), this switch opens to cause immediate shutdown of the engine by de-energizing a solenoid-operated fuel cut-off valve.

GENERAL

Should the engine be shut down during operation by any of the protective devices check immediately to determine where the trouble lies and correct it before attempting further operation.

Read the engine instruction book to become familiar with the operation of the starting equipment and the various protective devices which are furnished to prevent damage to the engine due to lack of proper care and attention.

SAFETY VALVES

A safety valve is connected to the secondary oil separator to protect the compressor against any serious over pressure. It should be operated by hand monthly to make sure it is in proper operating condition. Should this safety-valve "blow" at any time due to excessive discharge pressure, check the regulating devices for improper settings.

AIR CLEANER

Both engine and compressor intake are protected against entrance of dust and foreign objects by efficient two-stage dry type air cleaner.

The cleaner should be serviced as often as required in accordance with operating conditions; daily, if in a very dusty location.

The cleaner is fitted with a restriction indicator to give visual indication of the necessity for filter cleaning.

AIR RECEIVER AND OIL SEPARATOR SYSTEM

The inside of the primary oil separator may be cleaned by removing the end cover.

An oil separator element is mounted within the secondary separator shell which is mounted on the rear housing of the unit.

OIL SEPARATOR ELEMENT

The secondary oil separator element consists of a series of chambers each packed with an oil diverting medium through which the compressor air passes on its way to the final discharge connection. (Most of the oil is thrown out of the air mechanically in the primary oil separator, before the air enters the secondary oil separator).

The secondary separator element (as shown in Fig. 3) is removable as a unit for replacement when required. This is indicated by more oil consumption by the compressor than usual. In normal operation servicing of the secondary separator element should not be required for two or three years.

The diverting medium is a very special material, purchased on a strict specification and installed in the screen element to a definite density. Servicing, therefore, is by replacement with a complete factory-packed screen assembly as shown.

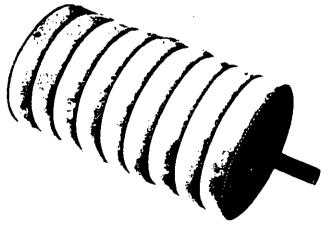


Fig. 3 - Secondary Oil Separator Element, Factory Packed, and replaceable.

CHASSIS (GENERAL)

Both mountings are equipped with grease fittings at wear points for use with a normal

grease gun. The wheels should be removed and the bearings cleaned and repacked once a year. The free ends of the springs may be lubricated occasionally with heavy oil or light grease.

MAXIMUM ALLOWABLE TOWING SPEED

| 4 wheel units | 20 mph | 32.19 kph |
|---------------|--------|-----------|
| 2 wheel units | 35 mph | 56.35 kph |

ROTARY COMPRESSORS ON PUMP - UP JOBS_

The secondary oil separator on the rotary portable air compressor is designed to function correctly at normal operating pressures.

The high air velocities (zero pressure or low pressure) will carry considerable quantities of oil from the secondary oil separator over into the discharge line, therefore it is essential to hold a minimum pressure of 70 psi. (4.92 kg./sq.cm.) in the receiver-separator system until such time as the discharge line pressure has increased to that amount. This is accomplished by a minimum pressure valve which automatically maintains a minimum pressure of 70 psi (4.92 kg./sq.cm).

Attempting to operate at discharge pressures below 70 psi will not increase the actual delivery.

LIMITS OF OUT OF LEVEL OPERATION

| MODEL | Standard Engine Standard Oil Pa | | |
|-----------------------|---------------------------------|----------|--|
| | Lengthwise From Cp + Down | Sidewise | |
| DR 250 S DR 250 SL | 15° . 10° | ~; | |

The engine, and not the compressor, is the limiting factor in all cases. When the unit is to be operated out of level, it is more important to keep engine crankcase oil level near the high mark than when operating on level ground. The out-of-level degrees are given on the assumption that the engine crankcase is filled to the high level mark (with the unit level) and the compressor oil gauge shows nearly full. Do not over-fill either the compressor lubricating system or the engine crankcase.

GYRO - FLO LUBRICATION

COMPRESSOR COUPLING

The complete coupling assembly is sealed to prevent the entrance of dirt and to retain the perminent lubrication installed on the original assembly.

If the engine and compressor are separated during a major overhaul, the coupling gear teeth should be repacked with grease before reassembling.

Use an automotive type front wheel bearing grease available at any service station. Use only enough to fill the gear teeth as an excess of grease in the chamber will expand with heat and resulting end thrust may cause compressor failure.

SPECIAL WARNING FOR PARALLEL OPERATION

Do not connect a Gyro-Flo Portable Air compressor into a common header with any other units of any description, or any other source of compressed air, without placing a check valve between the header and each Gyro-Flo Compressor.

Backflow of line pressure and possible contamination of the receiver-separator and lubricating system with oil, water, or scale must be prevented.

SPECIAL PRECAUTIONS FOR MOISTURE DRAINAGE

In installation where the discharge piping may slope upwards from the service outlet of the air receiver-oil separator system, provisions should be made to install a drain leg at the service outlet, to collect any drainback of condensate from the discharge line.

LUBRICATION (COMPRESSOR)

Compressor lubrication and cooling are both accomplished by the compressor lubricating oil. The compressor is cooled by oil injection directly into the rotor chambers. The compressor lubricating system consists of an oil pump, a storage reservoir, an oil cooler, and the necessary piping together with an oil filter.

LUBRICATION

The use of the proper lubricating oils and grease is imperative in maintaining efficiency as well as keeping repairs to a minimum.

Normally these units are furnished with an initial supply of compressor lubricating and cooling oil sufficient to allow operation of the

The oil cooler is a radiator-like heat transfer core section placed immediately in front of engine radiator core and having approximately the same frontal area. It is so arranged internally that the oil passes through the cooling air stream on its way through the core. Oil is piped from the storage space in the primary oil-separator to the inlet opening of the cooler core. On leaving the cooler it flows through the piping and the oil filter to the oil pump intake.

COMPRESSOR OIL FILTER

The oil filter is located as on fig. 4 in a high loop of the oil piping so that the filter body-element may be removed for servicing without having to drain any other part of the system.

Elements should be inspected or replaced after:- 50 Hours operation and 150 Hours operation, initially, and at every 500 hours further operation. While filter body is removed inspect for lacquer deposit. If a lacquer deposit is noted change compressor oil completely to avoid vane sticking in the compressor.

OIL STORAGE RESERVOIR IN PRIMARY SEPARATOR

The oil storage reservoir is in the lower portion of the primary separator shell, where most of the oil collects as it is thrown out of the compressed air before it enters the secondary oil separator. The level of the oil in this storage reservoir is indicated by an oil level dial gauge, visible from the rear of the unit. This should indicate at least between "half and full" when the unit is shut down and on fairly level ground. The storage reservoir is equipped with a special filler plug and drain plugs.

For complete draining of the reservoir and piping, use the large drain plug in the pipe fitting under reservoir. Also remove drain plug under oil cooler and discharge receiver.

Do not attempt to remove the filler plug without first releasing all pressure from the receiver-separator system by opening the hand relief valve.

unitfor approximately 1000 hours; however, if a unit has been completely drained of all compressor lubricating and cooling oil, the oil storage reservoir in the receiver-separator must be refilled with a new oil before operating the unit.

If the unit has been operated for 1000

PAGE 10. SECTION 1

If any varnish or lacquer deposits are found in the filter, this indicates that the oil is deteriorating and it should be changed immediately.

LUBRICATION

Lubrication of the engine is fully covered in the engine instruction book.

ONCE A DAY

Or every 8 Hours of Operation.

- 1. Maintain an oil level between half and full on the oil level indicator gauge. Check this each morning before starting.
- 2. Air Cleaner. Clean out dirt, every eight hours if compressor is operating in an extremely dusty location.

ONCE A WEEK

Or every 50 Hours of Operation.

- 2. Air Cleaner. If unit is operating in a reasonably clean atmosphere, its cleaning need only be performed once each week instead of every day.
- 3. The Regulator arm and linkage should receive a few drops of oil every 50 hours. Use engine crankcase oil.
- 4. Engine Crankcase Oil Filler Hole. See Engine Instruction Book.
- 5. Engine Oil Level Gauge. Check the oil level and refill if necessary. See Engine Instruction Book.
- 6. Generator. Oil the generator sparingly using engine crankcase oil.

TWICE A MONTH

Or every 100 Hours of Operation.

- 7. Compressor Lubricating Oil Filter. Remove shell, and service as per instruction on plate.
- 8. Engine Oil Filter Clean and renew element. See Engine Instruction Book.

EVERY THREE MONTHS

Or every 500 Hours of Operation.

10. Running Gear Spring Slip End. Apply grease with brush.

GYRO - FLO LUBRICATION

- 11. 12. Compressor Lubrication Oil.
 Change oil completely every 500 hours of operation, or more often if lacquer formation is found. To drain system remove plug, never remove filler plug when oil separator is under pressure.
 Do not remove drain plug except when it is necessary to completely change the oil.
- 13. Remove oil line screen assembly from scavenger line in secondary separator and clean.
- 14. Clean H.P. cylinder inlet orifice. Can be reached when scavenger line is removed.
- 15. Use grease gun to lubricate track rod ends, king pins and drawbar pintel, and parking mechanism.
- 16. Use oil can on hand parking brake linkage, and overrun brake.

TWICE A YEAR

or every 1250 hours of operation.

17. Wheel bearings. Remove wheels, replace any worn parts and repack not over half full with wheel bearing grease.

OTHER SERVICE REQUIREMENTS

- 18. Radiator.
 Drain water in freezing weather if not protected with anti-freeze.
- 19. Engine Cylinder Block. Drain water in freezing weather if not protected by anti-freeze.
- 20. Tighten all bolts and nuts periodically, especially wheel nuts (not illustrated).
- 21. Compressor and engine air inlet pre-cleaner. Keep screens free of leaves etc. at all times. To remove dust, wash screen in fuel or solvent as required.

GYRO - FLO LUBRICATION

SECTION 1 type automatic transmission fluid

hours (or when the oil level gauge indicates low when the unit is shut down and is standing approximately level) it should be completely drained of the compressor lubricating and cooling oil. If the unit has been operated under adverse conditions, or under long shutdown periods, an earlier change period may be necessary as oil deteriorates with time as well as with operating conditions. Complete replacement of the old compressor oil with clean new oil every 500 to 1000 hours, depending upon operating conditions, is not only desirable, but is good insurance against the accumulation of dirt, sludge, or oxidized oil products in the compressor lubricating and cooling oil system.

Completely drain the oil storage reservoir in the receiver-separator and the lubricating and cooling system piping. After the unit has been completely drained of all old oil, replace the drain plugs, making sure they are tight. If the oil is drained immediately after the unit has been run for some time, most of the sediment will be in suspension, and therefore, will drain more readily.

WARNING

Do not, under any circumstances, remove any drain plugs, or the oil filler plug from the compressor lubricating and cooling oil system without first making sure the air receiver system has been completely relieved of all air pressure.

Under normal operating conditions, use H. D. detergent type motor oil or DEXRON

Conditions of low ambient temperatures -10° F to 40° F (-23.3°C to -40.0°C), and/c high cycle in duty temperatures, above 85°F (29.4°C), require DEXRON type automatic transmission fluid

PAGE

Descriptions for the previously mentioned oils are as follows:

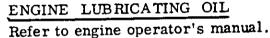
H.D. Detergent Type Motor Oil

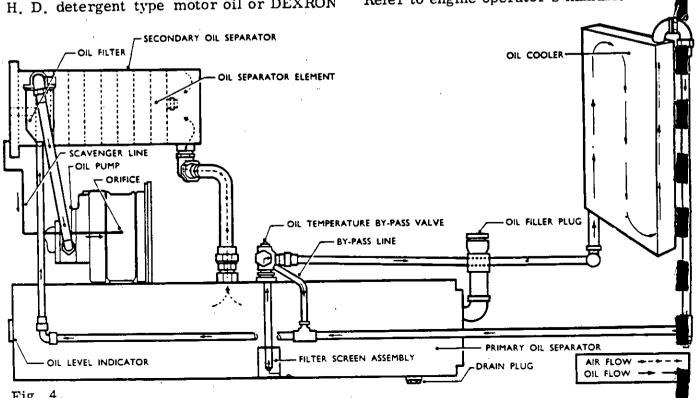
An oil complying with all requirements Specification MIL-L-2104B, Grade SAE 10V DEXRON Type Automatic Transmission Fluid.

An automatic transmission fluid complying with all the requirements of the General Motors DEXRON Specification. The must have been given a DEXRON approval qualification number. The oil must also have a maximum pour point of -45°F (-42.8°C and a minimum flash point of 390°F(198.8°C

CAUTION

Some oil mixtures are incompatible, varnishe result in the formation of shellacs, or lacquers which may be insoluble. Such deposits can cause serious trouble including clogging of the filter. Whe possible, try to avoid mixing oils of the same type but different brands. A brand change is best made at the time of a complete oil chang





REGULATION

100% regulation is provided for by a proportional speed reduction from full capacity down to approximately 60% capacity, and a combination of further speed reduction with volumetric regulation of the compressor for capacities from 60% down to zero capacity.

The total effect is accomplished by the UL-88 "Air Glide" Speed and Pressure Regulator in conjunction with the UL-89 Volumetric Regulator and a pressure-reducing valve.

UL-88 "AIR GLIDE SPEED AND PRESSURE REGULATOR" (Fig. 5)

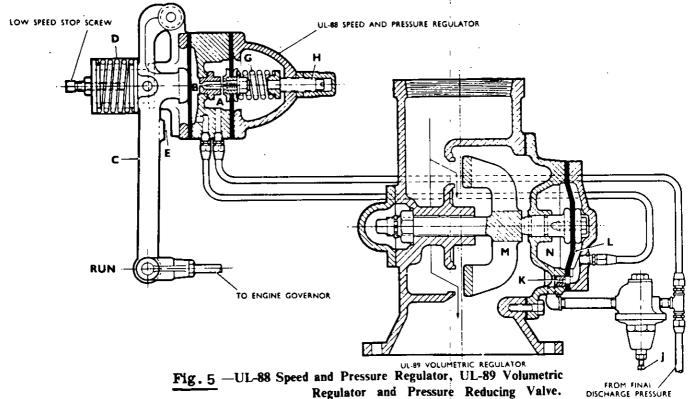
The UL-88 Speed and Pressure Regulator is an air pressure operated device consisting of a spring-loaded diaphragm on one side of a central body with an operating diaphragm on the opposite side of the same body. The central body forms two chambers "A" and "B", with a needle valve orifice located to pass air from one chamber to the other.

Chamber "A" is directly connected through tubing to the delivery end of the secondary oil separator and thus is subject to final discharge pressure at all times. Chamber "B" is connected through tubing to the operating diaphragm chamber "L" (Fig. 5)

of the UL-89 Volumetric Regulator, where a small orifice "K" is provided to bleed off a portion of the regulating air to give range control to the system.

The spring-loaded diaphragm of chamber "A" controls the positioning of the orifice needle, thus controlling the amount of pressure passing from chamber "A" to chamber "B". A spring-loaded lever "C" (Fig. 5) is so arranged against the chamber "B" diaphragm that movement of this diaphragm is multiplied, and conveyed by linkage, to the engine governing system.

The pressure in chamber "B" will always be less than in chamber "A" because of the throttling effect of the needle valve orifice and the fact that, when less than full capacity is being used and the discharge pressure is above the set pressure, chamber "B" pressure is then constantly bleeding off through the small vent "K" in the UL 89 Volumetric Regulator. Thus, when final discharge | pressure (and chamber "A" pressure) is sufficient to cause the diaphragm to raise the needle valve off its seat, chamber "B" pressure will gradually raise and overcome tension of spring "D" and move lever "C" to cause speed reduction of the engine and compressor.



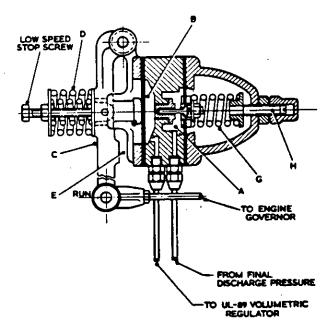


Fig. 6 - UL-88 Speed and Pressure Regulator

Since spring "D" is designed to be stronger than the engine governor spring, lever "C" will be held against the stop "E" as long as there is insufficient pressure in chamber "B" to overcome the difference in balance between spring "D" and the engine governor spring. Therefore, the engine will operate at full rated speed as long as the pressure in chamber "A" is insufficient to raise the needle valve.

The tension of spring "G" on the needle valve diaphragm is so adjusted by screw "H" that no lever movement occurs until final discharge pressure has reached 100 psi (7.03 kg./sq. cm.) (or whatever set pressure between 90 psi (6.33 kg./sq. cm.) and 110 psi (7.73 kg./sq. cm.) is desired in accordance with the tools being operated). Do not attempt to adjust below 90 psi (6.33 kg./sq. cm.) or above 100 psi (7.73 kg./sq. cm.).

If the air demand is less than the full capacity of the compressor, causing the final and chamber pressure discharge above 100 pressure to rise (7.03 kg./sq. cm.), then movement of the needle valve will permit sufficient air to pass to chamber "B" to overcome the bleed loss. This will build up enough pressure to move lever "C" in an infinitely variable manner from the full speed just sufficient to meet the reduced air demand. This speed and capacity change, from 100% down to 60% capacity, occurs within an approximate pressure increase of six pounds, from 100 psi (7.03 kg./sq. cm.) to 106 psi (7.45 kg./sq. cm) during which the speed will drop from full speed (1,800 RPM) down to approximately 1,100 RPM.

On further reduction of air demand, the final discharge pressure will rise above 106 psi, lifting the chamber "A" needle valve still more and further increasing the pressure in chamber "B" whereupon two controlling functions occur simultaneously.

- 1. Since movement of lever "C" continues with further increase of pressure in chamber "B", there will be additional speed reduction, which, carried to its full limit will reduce the speed proportionately from 1,100 RPM approximately down to 800 RPM. The low speed limit is adjusted by the low speed stop screw on the UL-88 Regulator. It limits the movement of the governor lever or the regulator lever in this direction.
- 2. At the same time, the increase in chamber "B" pressure, which is also effective on the operating diaphragm (Fig. 5) of the UL-89 Volumetric Regulator, is now sufficient to start closing the intake regulator valve "M".

Here again the closing of the valve is in an infinitely variable manner and the resulting capacity of the unit is progressively reduced.

The combined effect of functions (1) and (2) is such that the capacity of the unit is reduced from 60% capacity to zero capacity while the final discharge pressure is rising from 106 psi to 110 psi.

Complete regulation, therefore, has occurred within a pressure range of approximately 10 psi (.703 kg./sq. cm.) and in an infinitely variable or stepless manner. (See Speed and Volumetric Regulation Diagrams, Figs. 8 and 9.

UL-89 VOLUMETRIC REGULATOR (Fig. 5)

Balancing control of the diaphragm is obtained by holding a fixed pressure in chamber "N". This is accomplished by use of an air pressure reducing valve "J" connected to the final discharge pressure at the oil separator

This valve is adjusted to maintain a pressure in chamber "N" with sufficient tension to prevent movement of the regulator diaphragm, and the valve, until the pressure in chambers "B" and "L" has increased to a predetermined value. This allows compressor volumetric regulation to start at approximately 60%. From there on it will become progressively more effective as the air demand decreases and the pressure in chamber "L" increases above the balancing point.

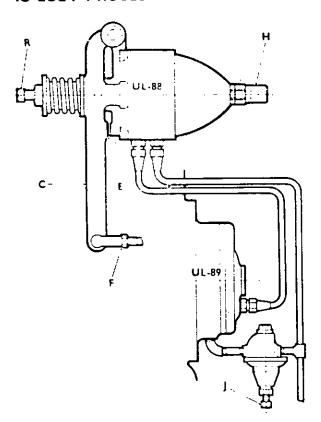
The UL-89 Volumetric Regulator consists of an intake housing equipped with a port and a diaphragm operated valve "M". The diaphragm chamber "L" receives its operating pressure from the UL-88 Speed and Pressure Regulator as explained before.

ADJUSTMENTS FOR SPEED AND PRESSURE MAXIMUM RATED SPEED (Fig. 7)

With final pressure held at 100 psi (7.03 kg./sq. cm.) and governor link rod

ADJUSTING INSTRUCTIONS UL-88 AIR-GLIDE REGULATOR

NORMALLY REGULATION REQUIRES NO SERVICING, BUT IF PROPER ADJUSTMENT IS LOST PROCEED AS FOLLOWS:-



FIRST—With discharge pressure held at 100 lbs., adjust screw "H" so that lever "C" remains against stop "I".

SECOND—Adjust length of link rod at "F" to held engine at 1,800 RPM at 100 psi (7.03 kg./sq. cm.) pressure and lock adjustment "F".

THIRD—Readjust screw "H" so that lever "C" is used starting to leave stop "E". Lock adjustment "H"

FOURTH—Raise discharge pressure slowly and when engine RPM has dropped to approximately 1,100 RPM, turn adjusting screw "J" "in" and note the highest interstage pressure obtainable, then unscrew adjustment "J" until interstage pressure starts to fall. Lock adjustment "J".

"LOW SPEED" Stop Screw to hold 800 RPM minimum speed. (Low Speed Stop Screw on UL-88 at R.) (See instruction book for possible variation of setting "H" for other operating pressure ranges to suit certain tools or work.)

Fig 7. - UL88 Air Glide Regulator Instruction Plate.

attached to UL-88 lever arm, adjust screw "H" so that lever "C" remains firmly against stop "E". Then adjust the length of link rod. "F" to maintain full rated speed of 1,800 RPM.

MINIMUM LOW SPEED

Close service valve causing final pressure to increase and complete unloading to occur (zero delivery). Then adjust low speed stop on the UL-88 Regulator to hold engine at 800 RPM.

START OF SPEED REGULATION

Holdfinal pressure at 100 psi and readjust screw "H" so that lever "C" is just leaving stop "E". (Speed starts to fall off if pressure is raised above 100 psi.).

CHANGING PRESSURE RANGE

By simple readjustment of screw "H" (Fig. 7), the start of regulation can be raised or lowered from the normal 100 psi setting. This enables the operator to select an average operating pressure suitable for the tools being operated, or to compensate for pipe line loss to a certain extent where long lines must be used. Do not attempt to adjust for more than plus or minus 10% from the normal 100 p.s.i. setting.

START OF VOLUMETRIC REGULATION

Close service valve sufficiently to cause speed to reduce to approximately, 1, 100 RPM and adjust the pressure reducing valve "J" to hold the interstage pressure at its normal pressure for your altitude. This will be 25 to 30 psi at altitudes up to 2, 000 ft. Determine this by observation during the first few days of operation. Check this adjustment by closing the service valve slightly further and noting that the interstage pressure starts to fall indicating that the volumetric regulation is taking effect as well as speed reduction.

UL-89 REGULATOR VALVE TRAVEL ADJUSTMENT

Should it be necessary to dismantle the regulator for any reason, when reassembling the maximum travel of valve "M", Fig. 5 should be held to the following dimensions:-

R250 Desired travel $\frac{1}{4}$ " Tol. + 1/32" - 0"

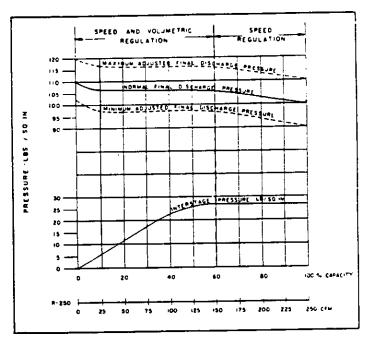


Fig. 8 - Capacity-Pressure Chart.

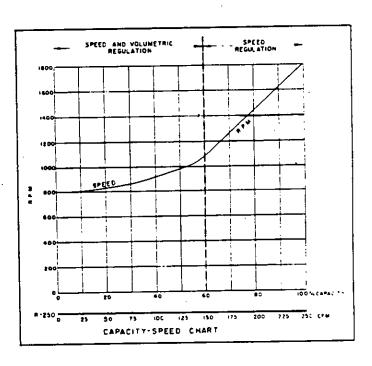


Fig. 9 - Capacity-Speed Chart.

The Gyro-Flo Compressor is manufactured with the finest quality material. Years of research and experience have been combined with quality workmanship and careful inspection to provide many years of dependable trouble-free operation.

The section, which contains an illustrated parts breakdown, has been carefully prepared as an aid in locating those parts which may be required in the maintenance of the unit. All of the compressor parts, listed in the breakdown, are manufactured with the same precision as the original equipment. For the greatest protection, always insist on Ingersoll-Rand Company parts for your compressor.

Ingersoll-Rand Company service facilities. and genuine parts are available world-wide. There are Ingersoll-Rand Company Branch distributors, and authorized conveniently located in the principle cities of the United Kingdom and throughout the free world. Each branch office, or authorized distributor, is thoroughly equipped with a of genuine and adequate supply Ingersoll-Rand Company parts. For faster and better service, your parts requirements should be ordered from your nearest Ingersoll-Rand Company Branch Office or authorized distributor. A list of branch offices will be found in the rear of this Each branch office is ably publication. equipped to provide technical assistance with prompt, intelligent, and courteous service, either through correspondence or personal contact.

All parts orders pertaining to the diesel engine should be referred to your nearest Engine Manufacturer, authorized distributor. Correspondence concerning the diesel engine should always include the engine serial and model number as well as the type number of the components being ordered.

One complete set of instruction books and parts lists covering both the compressor and engine is shipped with each compressor. Additional copies of the compressor literature may be obtained from your nearest Ingersoll-Rand Company Branch Office or authorized distributor. For additional copies of the engine literature, consult your nearest Engine Manufacturer, authorized distributor.

INTRODUCTION

The illustrated parts breakdown illustrates, lists and describes the various assemblies, sub-assemblies and detail parts which make up the Gyro-Flo Air Compressor. Each group of parts is accompanied by an illustration which shows each individual part as clearly as possible. Reference numbers only are used on each illustration. These numbers correspond to those in the illustration number column in the list of parts which follows each illustration.

Each illustration is followed immediately by a listing of the component parts. These component parts are listed in numerical order according to the number shown in the illustration.

A special feature of this parts listing is a system of identifying those parts which are included with an assembly or with other parts. The included part, or parts, is denoted by being indented from the previous item. When a part is ordered that has an indented item, or items, following the parts, the indented items are always included with that part. Indented items may also be ordered individually.

There are a number of items in the parts listing that are located on the rear or front of the unit, or that are identified as being either right hand or left hand parts. These parts are modified with the necessary descriptive information to properly identify them. In referring to the rear, the front or to either side of the unit, always consider the receiver-separator as the rear of the unit. Standing at the rear of the unit facing the receiver-separator, will determine the right and left sides.

The right hand columns show both the part number, and the quantity of each item. The quantity given is the total quantity required per assembly or per group of parts.

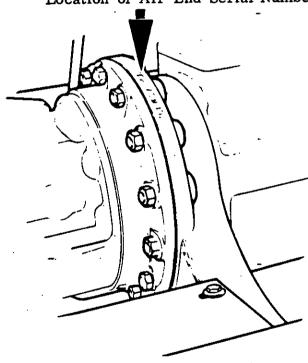
HOW TO ORDER

The satisfactory ordering of parts by a purchaser is greatly dependent upon the proper use of all available information. By supplying your nearest Ingersoll-Rand Company Branch Office, or authorized distributor, with complete information, you

will enable them to fill your orders correctly, and avoid any unnecessary delays. In order that all avoidable errors may be eliminated, the following instructions are offered as a guide to the purchaser when ordering replacement parts.

- Always specify the model number of the unit as shown on the model plate attached to the housing.
- b. Always specify the serial number of the unit. This is very important. The serial number of the unit will be found stamped on the instruction plate attached to the housing. The serial number of the air end will also be found stamped in the metal on the top edge of the L.P. Inner Bearing Housing.

Location of Air End Serial Number.



- c. Always specify the form number of this publication.
- d. Always specify the description of the part, or parts, as well as the part number exactly as it is given in the parts listing. Do not order a part, or parts, using the illustration number.
- e. Never use such terms as "Assembly", "Complete", or "Sets", unless these terms appear specifically in the parts listing.
- f. Always specify the quantity of parts required.

In the event of parts being returned to your nearest Ingersoll-Rand Company Branch Office, or authorized distributor, for inspection or repair, it is extremely important to include the serial number of the unit from which the parts were removed. This is necessary if the branch or distributor is to take care of your order promptly.

Engine parts must be ordered from your nearest Engine Company, authorized distributor.

SPARE PARTS

Special selections of spare parts have been prepared as insurance against prolonged shutdown periods. These selected parts, called spare parts boxes, are shown itemized in the rear of this section. The contents of each spare parts box are carefully selected so as to provide maximum protection for the unit with a minimum number of parts. Three sizes of spare parts boxes, ranging from small to extra large, are available. small spare parts box is suitable for minimum domestic use while the large is suitable for average domestic use or for minimum export The extra large spare parts box is suitable to maintain up to five units. domestically or up to two units in foreign countries, or in remote locations, where transportation facilities may be slow. Section 7 will give you the correct part numbers and the contents of each box in the event they were not obtained at the time the compressor was purchased.

SPARE PARTS (not illustrated)

| Part No. | Name of part |
|-----------|---|
| TR250P150 | Air End Complete (Includes: Low Pressure Cylinder Assembly - Part Number T2R250P185. |
| | High Pressure Cylinder Assembly - Part Number T2R250P175. Lubricating Oil Pump Assembly - Part Number T2R250P225. |
| TR250P750 | Complete Set of Gaskets and "O" Rings. |

GYRO - FLO DR - 250-S

DRIVERS
AND
ASSOCIATED PARTS

SECTION 2. INDEX

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Ford Engine

Page 1.

Perkins Engine Page 2.

GYRO - FLO DR - 250 - S FORD ENGINE

TABULATED DATA

| Ford 2714E 6 Cylinder Diesel Engine | T2T5276 |
|--|-----------------------|
| Oil Capacity Engine Crankcase - pints | 20 pts.(11.35 litres) |
| Water Capacity Engine Cooling System - Imperial Gals | 6 (27.25 litres) |
| Unit Weights with above Engine | |
| Weight Dry - pounds - 2 - Wheel | 5146 lbs 2296 kg. |
| Weight with Fuel, Oil, Water - pounds - 2 - Wheel | 5140 lbs 2290 kg. |
| 4 - Wheel | 5416 lbs 2321 kg. |

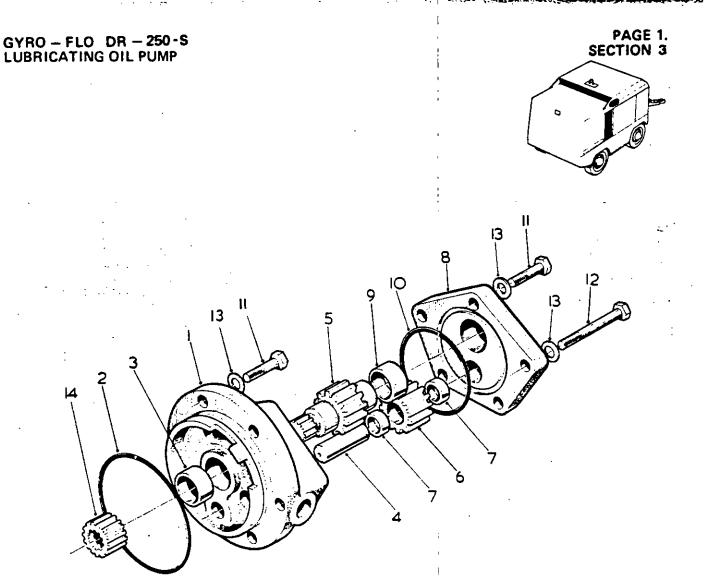
| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|---------------|---|-----------------------|------|
| | | | |
| 1 | LH Rear Mounting Bracket | T2T5275 | 1 |
| 2 | RH Rear Mounting Bracket | T2T5224 | 1 |
| 3 | Resilient Mount | T2 WPP 209 | 2 |
| 4 | Front Mounting Bracket | T2T5225 | 2 |
| 5 | Resilient Mounts | T2WPP6038/60 | |
| 6 | Setscrews | 7/16"UNC x 1" lg | - |
| 7 | Spring Washers | 7/16" Dia. | |
| 8 | Nuts | 3/8" UNF | 12 |
| 9 | Spring Washers | 3/8" Dia. | 12 |
| 10 | Setscrews | 3/8"UNC x 1" lg | • |
| 11 | Flat Washers | 3/8" Dia, | 3 |
| 12 | Nuts | 9/16" UNF | 2 , |
| 13 | Spring Washers | 9/16" Dia. | 2 |
| 14 | Exhaust Pipe | T2V8846 | 1 |
| 15 | Exhaust Pipe Flange 508F5269B | T2V8847 | 1 |
| 16 | Silencer | T2V8848 | 1 ! |
| 17 | Silencer Flexible Mounts | T2 17/700 | 2 ; |
| 18 | Silencer Mounting Supports | T2K4911 | 2 |
| 19 | Tailpipe | T2K4912 | 1 |
| 20 | Burgess Clamp | $2\frac{1}{2}$ " Dia. | 1 |
| 21 | Water Temperature Gauge Adaptor | T2 V7133 | [I |
| 22 | Engine Filter Adaptor | T2T4667 | 1 |
| 23 | Engine Intake Elbow | T2K4906 | 1 |
| 24 | Burgess Clip | 3" Dia. | 1 1 |
| 25 | Rubber Hose | T2V4704-4 | 2 |
| 26 | Jubilee Clips | 3'' | 4 |
| 27 | Inlet Pipe | T2T5291 | 1 |

AIR END AND ASSOCIATED PARTS

INDEX SECTION 3

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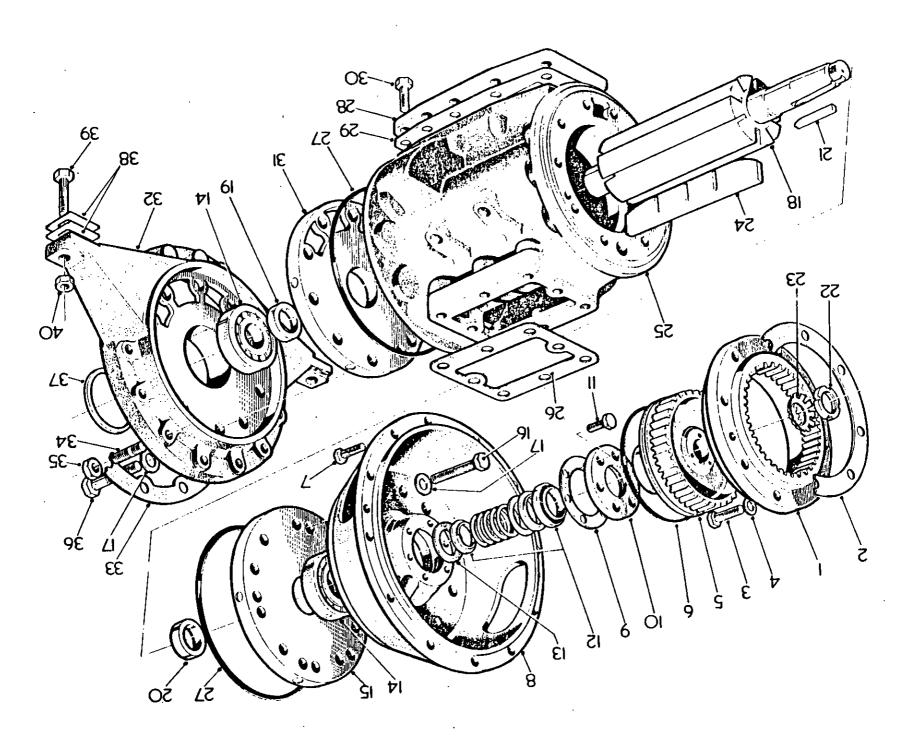
| Lubricating Oil Pump | Page | 1 | | |
|-----------------------------|------|---|---|---|
| L.P. Cylinder | Page | 2 | & | 3 |
| H.P. Cylinder | Page | 4 | & | 5 |
| UL 89 Volumetric Regulator. | Page | 6 | & | 7 |
| Daws Not Illustrated | Page | 8 | | |

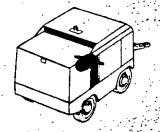


| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|----------------|--|--------------------------------|----------|
| | LUBRICATING OIL PUMP ASSEMBLY | 002 H2 06 02 | 1 |
| 1 | Lubricating Oil Pump Body | 002H18080 | 1 |
| $\overline{2}$ | Oil Pump Body to Housing "O" Ring | 00X1514T250C | 1 |
| 3 | Lubricating Oil Pump Gear Bushing - Inner | 002W32624 | 1 |
| 4 | Lubricating Oil Pump Driven Gear Shaft | 002W48476 | 1 |
| 5 | Lubricating Oil Pump Drive Gear | 002H18081 | 1 |
| 6 | Lubricating Oil Pump Driven Gear | 002W48492 | 1 |
| 7 | Lubricating Oil Pump Driven Gear Bushing | 002W48475 | 1 |
| 8 | Lubricating Oil Pump Body Cover | 002R26339 | 1 |
| 9 | Lubricating Oil Pump Drive Gear Bushing - Outer. | 002W32624 | 1 |
| 10 | Lubricating Oil Pump Cover to Body "O" Ring | 00X1514T243C | 1 |
| 11 | Oil Pump to Bearing Housing Set Screw | $007/16$ '-14 x $3\frac{1}{4}$ | 4 |
| 12 | Oil Pump Cover to Body Set Screw | $007/16$ '-14 x $1\frac{1}{4}$ | 3 |
| 13 | Oil Pump Steel Washer | 00X1016T32 | 7 |
| | | <u> </u> | <u> </u> |

Always give the serial number of your compressor.

Do not order by reference number - order by part number.

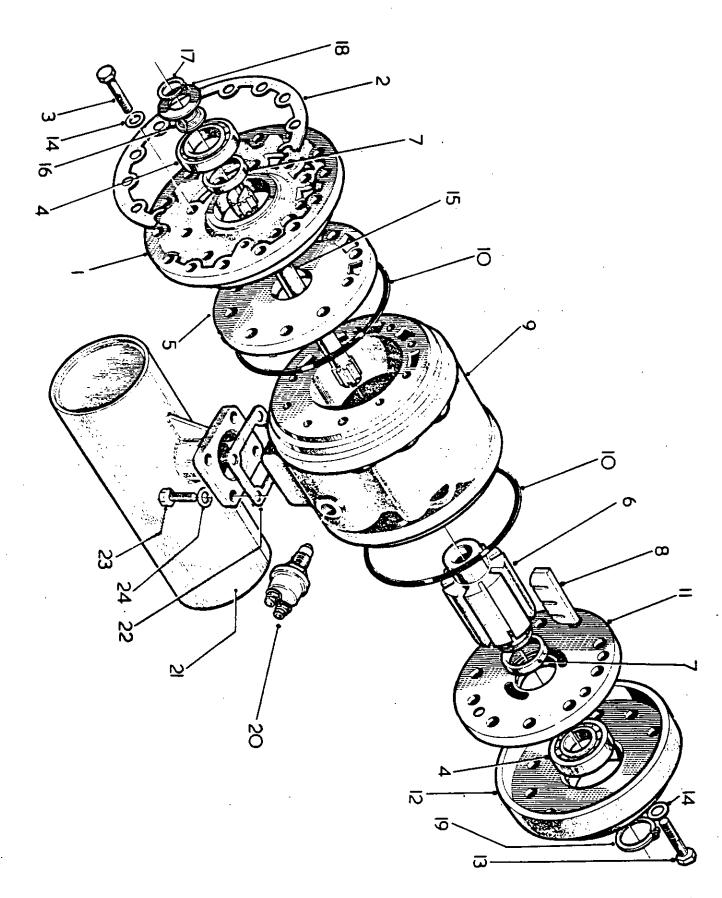




| | • • | | 7.70 |
|--------|--|--|--------|
| Illus. | NAME OF PART | | |
| No. | Parts indented after an item are included with the item. | PART NO. | QTY. |
| 1 | Compressor Coupling Drive Gear | 002H13601 | 11.5 |
| 2 | Compressor Coupling Drive Gear Gasket | 00 2W32 925 | 1 |
| 3 | Drive Gear to Flywheel Set Screw | $3/8'' - 16 \times 1\frac{1}{2}''$ ht | 8 |
| 4 | Set Screw Lockwasher | 3/8" | 8 |
| 5 | Compressor Coupling Driven Gear | 002H13602 | 1 11.5 |
| 6 | Compressor Coupling Driven Gear "O" Ring | 00X1514T448C | 1 5 |
| 7 | Compressor to Engine Set Screw | $003/8'' - 16 \times 1'$ ht | 10 |
| , | L.P. CYLINDER COMPLETE | | |
| 8 | L.P. Outer Housing - Front | 002H13573A | 1 |
| 9 | Rotary Shaft Seal Cover Gasket | 002W26729 | 1 |
| 10 | Rotary Shaft Seal Cover | 002W26685 | -1 |
| 11 | Rotary Shaft Seal Cover Set Screw | 003/8"-16 x 1"ht | 5 |
| 12 | Rotary Shaft Seal | 002W26684 | 1 |
| 14 | Roller Bearing | 002W48538 | 2 |
| 15 | L.P. Cylinder Outer Plate | 002R26350P1 | 1 |
| 16 | Bearing Housing to L.P. Cylinder Set Screw. | $005/8$ "- $11x2\frac{1}{4}$ ht | 8 |
| 17 | L.P. Outer Bearing Housing Washer | 00X1016T47 | 16 |
| 18 | L.P. ROTOR | 002H18000TP | 1 |
| 19 | L.P. Rotor Bearing Spacer | 002W48400 | 1 |
| 20 | L.P. Rotor Bearing Spacer - Engine End | 002W48400 | 1 |
| 21 | Compressor Coupling Drive Gear Key | 00X1495T3 | 1 |
| 22 | Compressor Coupling Locknut | 002W26503 | 1 |
| 23 | Compressor Coupling Lockwasher | 002W26506 | 1 |
| 24 | L.P. Rotor Vane Set (consists of 8) | 00R250P110 | 1 |
| 25 | L.P. Cylinder | 002F11933 | 1 . |
| 26 | UL-89 Regulator Body Gasket | 2W32710 | 1 |
| 27 | Bearing Housing to Cylinder "O" Ring | 00X1514T450C | 2 |
| 28 | L.P. Cylinder Bottom Cover | 002 R2 63 01 | 1 " |
| 29 | L.P. Cylinder Bottom Cover Gasket | 002R26302 | 1 |
| 30 | L.P. Cylinder Bottom Cover Set Screw | $00\frac{1}{2}$ "-13 x $1\frac{1}{4}$ ht | 8 |
| 31 | L.P. Cylinder Inner Plate | 002 R26349P1 | 1 : |
| 32 | L.P. Inner Bearing Housing | 002F12129 | 1 |
| 34 | L.P. Inner Bearing Housing Stud | 00T2V4586-4 | 12 |
| 35 | L. P. Inner Bearing Housing Stud Nut | 005/8 - 11 | 12 |
| 36 | Housing to L.P. Cylinder Set Screw | $005/8''-11 \times 2\frac{1}{4}$ ht | 8 |
| 37 | Housing Spacer - Outer Ring | 002W32685 | 1 |
| * | Resilient Mount | T2WPP210 | 2 |
| * | Nuts & Spring Washers | 3/8" UNF | 4 |
| * | Nut & Washer | 9/16" UNF | 2 |
| 38 | L.P. Inner Bearing Housing Shim-Set(as required) | 00X1406T5 | 1 |
| 1 | | | |

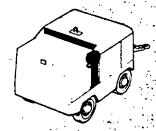
Always give the serial number of your compressor.

Do not order by illustration number - order by part number.



GYRO - FLO DR - 250-5

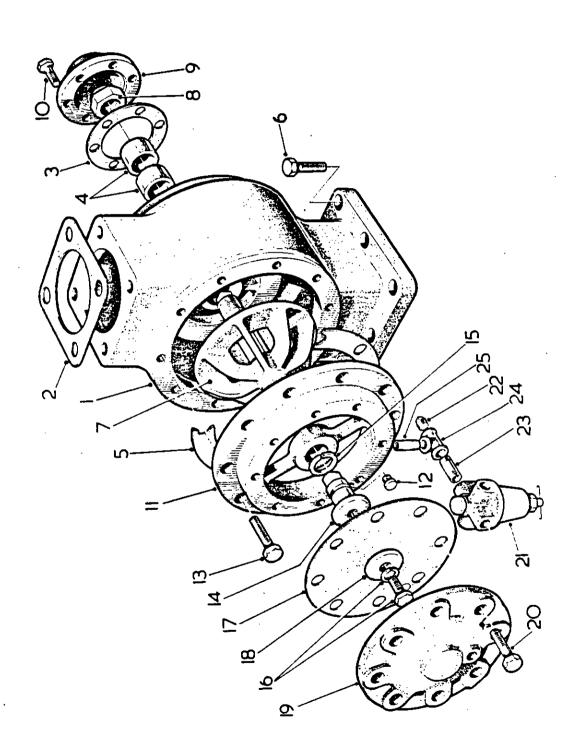
SECTION 3

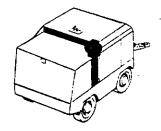


| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|---------------|--|-------------------------------------|------|
| | H.P. CYLINDER COMPLETE | 002H18120 | 1 |
| 1 | H.P. Inner Cylinder Housing | 002H18078 | 1 |
| 2 | Inner Bearing Housing Gasket | 002R26307 | 1 |
| 3 | Bearing Housing to H.P. Cylinder Set Screw. | 005/8"−11 x 2½ h | 8 |
| 4 | Roller Bearing | 002W48538 | 2 |
| 5 | Roller Bearing | 002R26296P1 | 1 |
| 6 | H.P. Rotor | 002H17999TP | 1 |
| 7 | H.P. Rotor Bearing Spacer | 002W48400 | 2 |
| - 8 | H.P. Rotor Vane Set (consists of 8) | 00R250P115 | 1 |
| 9 | H P Cylinder | 002F11943 | 1 |
| 10 | H.P. Cylinder | 00X1514T450C | 2 |
| 11 | H.P. Cylinder Outer Plate | 002R26295P1 | 1 |
| 12 | H.P. Outer Bearing Housing | 002H18079 | 1 |
| 13 . | Housing to H.P. Cylinder Set Screw | $005/8''-11 \times 2\frac{1}{4}$ ht | 8 |
| 14 | Bearing Housing Steel Washer | 00X1016T47 | 16 |
| 15 | H. P. Rotor Drive Shaft | 002 R26259 | 1 |
| 16 | H. P. Inner Bearing Support | 002W32664 | 1 |
| 17 | Inner Bearing Spacer Snap Ring - Centre | 002W32684 | 1 . |
| 18 | H. P. Inner Bearing Spacer Inner Ring | 002W32665 | 1 |
| 19 | H.P. Outer Bearing Snap Ring - Rear | 00X1318T19 | 1 |
| 20 | H.P. Temperature Switch | 2R17460 | 1 |
| 21 | H. P. Discharge Pipe Receiver | T2N1093 | 1 |
| 22 | H.P. Discharge Pipe Receiver Gasket | 2W48477 | 1 |
| 23 | H. P. Discharge Pipe Receiver Set Screw | 7/16''-14 x 1'' ht | 4 |
| 24 | H. P. Discharge Pipe Receiver Lockwasher | 7/16'' | 4 |
| * . | Set Screw | 5/8"UNC x 3" ht | 2 |

Always give the serial number of your compressor.

Do not order by illustration number - order by part number.





| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|---|--|--|---|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | INLET UNLOADER ASSEMBLY UL89 Volumetric Regulator Body Compressor Air Inlet Elbow Gasket UL89 Volumetric Regulator Valve Nut Cover Gasket UL89 Volumetric Regulator Valve Bushing UL89 Volumetric Regulator Diaphragm Body Gasket UL89 Volumetric Regulator Body Set Screw UL89 Volumetric Regulator Valve UL89 Volumetric Regulator Valve Locknut UL89 Volumetric Regulator Valve Nut Cover Valve Nut Cover Set Screw UL89 Volumetric Regulator Diaphragm Body Diaphragm Body Orifice Plug Diaphragm Body Set Screw UL89 Volumetric Regulator Diaphragm Piston UL89 Volumetric Regulator Diaphragm Piston Ring UL89 Volumetric Regulator Diaphragm UL89 Volumetric Regulator Diaphragm UL89 Volumetric Regulator Diaphragm UL89 Volumetric Regulator Diaphragm UL89 Volumetric Regulator Diaphragm Retaining Plate UL89 Volumetric Regulator Diaphragm Cover Diaphragm Cover Set Screw UL89 Volumetric Regulator Reducing & Relief Valve Pipe Plug Reducing Valve Space Nipple | 2R18043 $\frac{1}{2}$ " - 13 x 1 $\frac{1}{2}$ ht 2W48571 $\frac{1}{4}$ BSPT $\frac{1}{4}$ "BSPT x 4 $\frac{1}{2}$ " | 1 1 1 1 2 1 8 1 1 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 24 25 | Pipe Tee Hex. Nipple Tee to Regulator | TBSPT TBSPT TBSPT | 1 |

Always give the serial number of your compressor. Do not order by illustration number - order by part number. PAGE 8. SECTION 3.

| Item No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY, |
|-------------|---|--------------------|------|
| 1 2 | Cylinder End Plate Discharge Hole Plug Pipe Plug (UL 89 Body) | 2W57579 ½" BSPT | 4 2 |

Always give the serial number of your compressor.

Do not order by illustration number - order by part number.

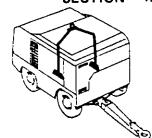
RUNNING GEAR FRAME HOUSING

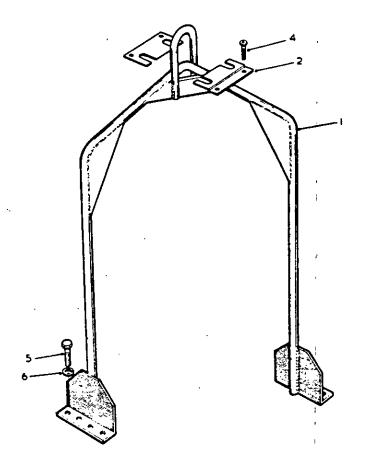
ASSOCIATED PARTS

INDEX SECTION 4

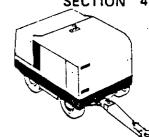
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| Lifting Bail | Page 1 |
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| Running Gear (4 Wheel) | Page 2 = 7 |
| Housing of Wheel | Page 3 - 11 |
| Housing (2 Wheel) | Page 12 - 17 |
| Running Genr (2 Wheel) | Page 16 - 11 |
| Brake Details | Page 20 |
| Parts Not Illustrated | Page 21 |





| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|-----------------------|--|---|---------------------|
| 1 2 4 5 6 | Lifting Bail Assembly Lifting Bail Hole Cover Self Tapping Screws Set Screws Lockwashers | T2K4843 T2T5277 No: 14 5/8"UNC x 11 x 2" 5/8" | 1 1 4 ht 8 |



| | | | 186 |
|--------|--|--------------------------|---------------|
| Illus. | NAME OF PART | | 0 m 17 |
| No. | Parts indented after an item are included with the item. | PART NO. | QTY. |
| * | Truck Frame | T2N2014 | 1 |
| | Running Gear Complete | T2T5274 | 1 |
| 1 | Towing Box | T2T5274/ 1 | 1 |
| 2 | Towing Box, Bolt & Nut Washer | T2T5274/ 2 | 4 |
| 3 | Draw Bar | T2T5274/ 3 | 1 |
| 4 | Draw Bar Pin | T2T5274/ 4 | 1 |
| 5 | Draw Bar Pin Washer | T2T5274/ 5 | 1 |
| 6 | Draw Bar Pin Split Pin | T2T5274/ 6 | 1 |
| 7 | Pintel | T2T5274/ 7 | 1 |
| 8 | Latch Spring | T2T5274/ 8 | 1 |
| 9 | Latch | T2T5274/ 9 | 1 |
| 10 | Set Screw | T2T5274/10 | 1 |
| 11 | Nut | T2T5274/11 | 2 |
| 12 | Pivot Pin | T2T5274/12 | 1 |
| 13 | Washer | T2T5274/13 | 2 |
| 14 | Pivot Pin Bush | T2T5274/14 | 1 |
| 15 | Washer | T2,T5274/15 | 1 |
| 16 | Nut | T2T5274/16 | 1 |
| 17 | Split Pin | T2T5274/17 | 1 |
| 18 | Track Rod - RH | T2T5274/18 | 1 |
| 19 | Track Rod - LH | T2T5274/19 | 1 |
| 20 | Track Rod End - RH | T2T5274/20 | 1 |
| * | Track Rod End - LH | T2T5274/21 | 1 |
| 21 | Set Screw | T2T5274/22 | 2 |
| 22 | Washer | T2T5274/23 | 2 |
| 23 | Nut | T2T5274/24 | 2 |
| 24 | Grease Nipple | T2T5274/25 | 8 |
| 25 | Front Axle | T2T5274/26 T2T5274/27 | 1 1 |
| 26 | Stub Pivot - RH | T2T5274/28 | 1 1 |
| * | Stub Pivot - LH | T2T5274/29 | 2 |
| 27 | Set Screw and Hex. Nut | T2T5274/29 | 4 |
| 28 | King Pin Bushing | T2T5274/30 | 2 |
| 29 | King Pin | T2T5274/31 | 4 |
| 30 | Thrust Washer | T2T5274/33 | 2 |
| 31 | Washer Thrust Washer Retainer | T2T5274/34 | 2 |
| 32 | Cotter Pin | T2T5274/35 | 2 |
| 33 | | T2T5274/36 | 1 |
| 34 | Washer | 1210214/00 | |

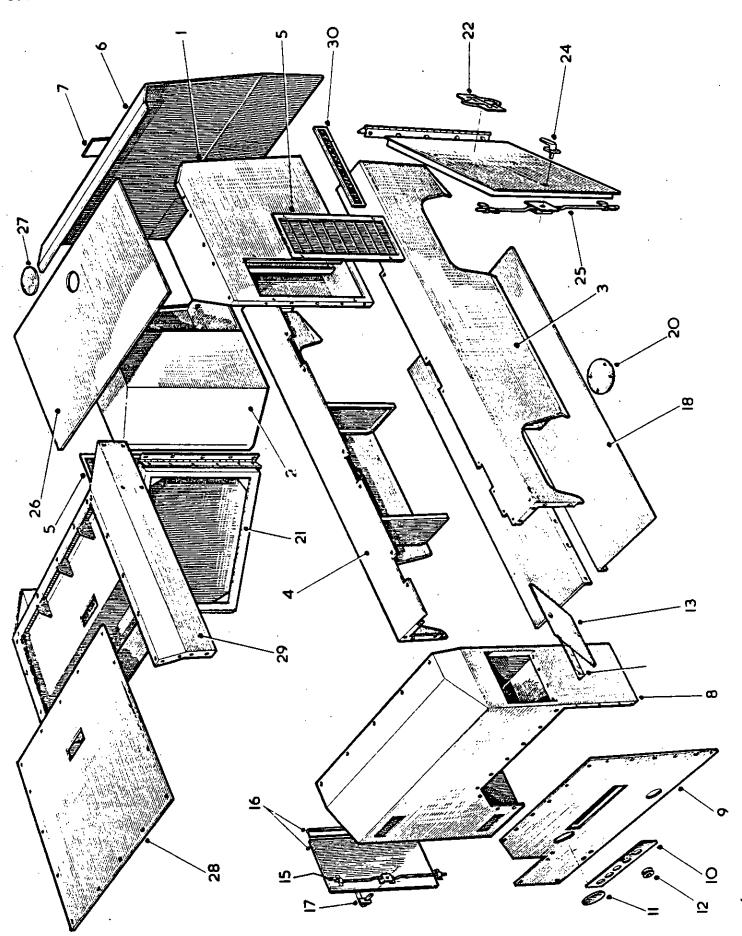
* Not illustrated.

| Illus. | NAME OF PART | PART NO. | QTY. |
|------------|--|-------------|------|
| No. | Parts indented after an item are included with the item. | | , , |
| | | | |
| 35 | Hex. Nut | T2T5274/37 | 2 |
| 36 | Oil Seal | T2T5274/38 | 4 |
| 37 | Bearing - Inner | T2T5274/39 | 4 |
| 38 | Hub | T2T5274/40 | 4 |
| 39 | Stud - LHT | T2T5274/41 | 10 |
| * | Stud - RHT | T2T5274/42 | 10 |
| 40 | Bearing - Outer | T2T5274/43 | 4 |
| 41 | "D" Washer | T2T5274/44 | 4 |
| 42 | Axle End Nut | T2T5274/45 | 4 |
| 43 | Split Pin | T2T5274/46 | 4 |
| 44 | Hub Cap | T2T5274/47 | 4 |
| 45 | Wheel Nut - LHT | T2T5274/48 | 10 |
| * | Wheel Nut - RHT | T2T5274/49 | 10 |
| 46 | Tyre | T2T5274/50 | 4 |
| 47 | Wheel | T2T5274/51 | 4 |
| 48 | Front Spring | -T2T5274/52 | 2 |
| 49 | Fixed End Shackle | T2T5274/53 | 4 |
| 50 | Shackle Bush | T2T5274/54 | 4 |
| 51 | Fixed End Shackle Bolt | T2T5274/55 | -1 |
| 5 2 | Hex. Nut | T2T5274/56 | 4 |
| 53 | Moving End Shackle | T2T5274/57 | 4 |
| 54 | Set Screw | T2T5274/58 | 16 |
| 55 | Washer | T2T5274/59 | 16 |
| 56 | Hex. Nut | T2T5274/60 | 16 |
| 57 | Front Spring Bolt Plate | T2T5274/61 | 2 |
| 58 | Bolt | T2T5274/62 | 4 |
| 59 | Hex. Nut | T2T5274/63 | |
| 60 | Rear Spring Bolt Plate | T2T5274/64 | 2 |
| 61 | Bolt | T2T5274/65 | 4 |
| 62 | Nut | T2T5274/66 | ` |
| 63 | Rear Axle | T2T5274/67 | 1 |
| 64 | Brake Drum | T2T5274/68 | 2 |
| 65 | Set Screw | T2T5274/69 | 8 |
| 66 | Washer | T2T5274/70 | 8 |
| 67 | Hex. Nut | T2T5274/71 | 8 |
| 68 | Rear Spring | T2T5274/72 | 2 |
| 69 | Brake Rod - N/S | T2T5274/73 | 1 |
| 70 | Brake Rod - O/S | T2T5274/74 | 1 |

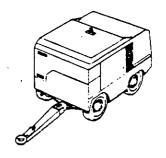
^{*} Not illustrated.

MARCH'72

| Illus. | NAME OF PART | PART NO. | QTY. |
|--------|--|--------------------------|------|
| No. | Parts indented after an item are included with the item. | PART NO. | QII. |
| | | T2T5274/75 | 2 |
| 71 | Brake Rod Lock Nut | T2T5274/76 | 4 |
| 72 | Swivel Pin | T2T5274/77 | 4 |
| 73 | Split Pin | T2T5274/78 | 2 |
| 74 | Washer | | 1 |
| 75 | Hex. Nut | T2T5274/79 T2T5274/80 | 1 |
| 76 | Set Screw | | 1 |
| 77 | Spacer | T2T5274/81 | _ |
| 78 | Washer | T2T5274/82 | 1 |
| 79 | Hex. Nut | T2T5274/83 | 1 |
| 80 | Split Pin | T2T5274/84 | 1 |
| 81 | Plate | T2T5274/85 | 1 |
| 82 | Lever | T2T5274/86 | 1 |
| 83 | Washer | T2T5274/87 | 1 |
| 84 | Brake Cable | T2T5274/88 | 1 |
| 85 | Hand Brake Cable | T2T5274/89 | 1 |
| 86 | Handle | T2T5274/90 | 1 |
| 87 | Lockwasher | T2T5274/91 | 1 |
| 88 | Set Screw | T2T5274/92 | 1 |
| 89 | Set Screw | T2T5274/93 | 1 |
| 90 | Washer | T2T5274/94 | 1 |
| 91 | Castle Nut | T2T5274/95 | 1 |
| 92 | Split Pin | T2T5274/96 | 1 |
| 93 | Bush | T2T5274/97 | 1 |
| 94 | Thrust Washers | T2T5274/98 | 2 |
| 95 | Latch Plate (Tow Box) | T2T5274/99 | 1 |
| 96 | Washer | T2T5274/100 | 1 |
| 97 | Set Screw | T2T5274/101 | 1 |
| i | Tow Box Overun Brake Lever | T2T5274/102 | 1 |
| 98 | | T2T5274/103 | 1 |
| 99 | Clevis | T2T5274/104 | ī |
| 100 | Split Pin | T2T5274/105 | ī |
| 101 | Greaser (Angled) | T2T5274/106 | 2 |
| 102 | Greasers (Stub Pivot) | T2T5274/107 | ī |
| 103 | Greasers (Fixed Shackle) | T2T5274/108 | 1 |
| 104 | Washer | T2T5274/109 | 1 1 |
| 105 | Nut | 1213214/109 | 1 |



MARCH'72



| | | | |
|--------|--|--|-------|
| Illus. | NAME OF PART | DART NO | QTY. |
| No. | Parts indented after an item are included with the item. | PART NO. | (711. |
| | HOUSING (4 WHEEL) | | |
| 1 | Air Inlet Duct - RH | T2K4805 | 1 |
| * | Setscrew | 3/8"UNC x ³ / ₄ " | 7 |
| * | Spring Washer | 3/8" | 7 |
| 2 · | Air Inlet Duct - LH | T2K4847 | 1 |
| * | Setscrew | 3/8" UNC x ³ / ₄ " | 7 |
| * | Spring Washer | 3/8'' | 7 |
| 3 | Fender - RH | T2K4845 | 1 |
| * | Setscrew | $3/8''$ UNC x $\frac{3}{4}''$ | 8 |
| * | Spring Washer | 3/8'' | 8 |
| 4 | Fender - LH | T2K4846 | 1 |
| * | Setscrew | $3/8''$ UNC $\times \frac{3}{4}''$ | 8 |
| * | Spring Washer | 3/8'' | 8 |
| 5 | Air Inlet Grill | T2T5217 | 2 |
| * | Setscrew | 5/16"UNC x 5/8" | 8 |
| * | Flat Washer | 5/16" | 8 |
| 6 | Front Panel | 92284173 | 1 |
| * | Setscrew | β/8''UNC x ¾'' | 10 |
| * | Spring Washer | 3/8'' | 10. |
| 7 | I-R Monogram | 20A16A2D | 1 |
| 8 | Rear Panel Ass | T2N2027 | 1 |
| * | Setscrew | 5/16"UNC x 5/8" | 18 |
| * | Spring Washer | 5/16" | 18 |
| 9 | Rear Panel | T2K4848 | 1 |
| * | Setscrey | 5/16"UNC x 5/8" | 16 |
| * | Spring Washer | 5/16" | 16 |
| 10 | Discharge Pipe Cover | T2T5289 | 1 |
| * | Self Tapping Screw | No. $14 \times \frac{1}{2}$ " | 8 |
| 11 | Discharge Elbow Cover Plate | T2V8925 | 1 |
| * | Setscrew | $\frac{1}{4}$ 'UNC x $\frac{1}{2}$ '' | 3 |
| 12 | Grommet | T2 3716 - 125 | 5 |
| 13 | Instrument Panel Access Door with Hinge | T2K4903 | 1 |

* Not illustrated.

Always give the serial number of your compressor.

Do not order by illustration number - order by part number.

30

PAGE 10, SECTION 4.

| | 1 | | · |
|---------------|---|---------------------------------------|------|
| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
| 15 | 2 Way Rod Latch | T2V8856 | 1 |
| 16 | Filter Access Door with Hinge | T2K4800 | 1 1 |
| * | Setscrew | $\frac{1}{4}$ " UNC x $\frac{1}{2}$ " | 5 |
| * | Spring Washer | $\frac{1}{2}$. | 5 |
| 17 | Handle | T2V8858 | 1 |
| 18 | Underside Baffle Plate | T2N2018 | 1 |
| * | Setscrew | $\frac{1}{4}$ " UNC x $\frac{1}{2}$ " | 16 |
| * | Spring Washer | <u> </u> | . 16 |
| * | Setscrew | 5/16" UNC x 5/8" | 18 |
| * | Spring Washer | 5/16" | 18 |
| 20 | Underside Baffle Plate Cover | T2V8791 | 1 |
| * | Setscrew | 쇼'' UNC x 옯'' | 4 |
| * | Spring Washer | $\frac{1}{\lambda}$ " | 4 |
| 21 | Main Door with Hinge | T2K4812 | 2 |
| * . | Setscrew | 5/16" UNC x 5/8" | 10 |
| * | Spring Washer | 5/16" | 10 |
| * | 2 Way Rod Latch 3/18793 | T2 V8856 | 1 |
| 24 | Handle | T2V8858 | 2 |
| 25 | 2 Way Rod Latch 3/18624 | T2V8857 | 1 |
| 26 | Front Cover | T5272 | 1 |
| * | Setscrew | 5/16" UNC x 5/8" | 24 |
| * | Spring Washer | 5/16" | 24 |
| 27 | Radiator Filler Sealing Plate | T2V8992 | 1 |
| * | Self Tapping Screw | No. 14 | 4 |
| 28 | Top Cover | T2K4809 | 1 |
| * | Setscrew | 5/16"UNC x 5/8" | 18 |
| * | Washer | 5/16" | 18 |
| 29 | Top Assembly | T2N2026 | 1 |
| * | Setscrew | 5/16"'UNC x 5/8" | 14 |
| * | Washer | 5/16" | 14 |

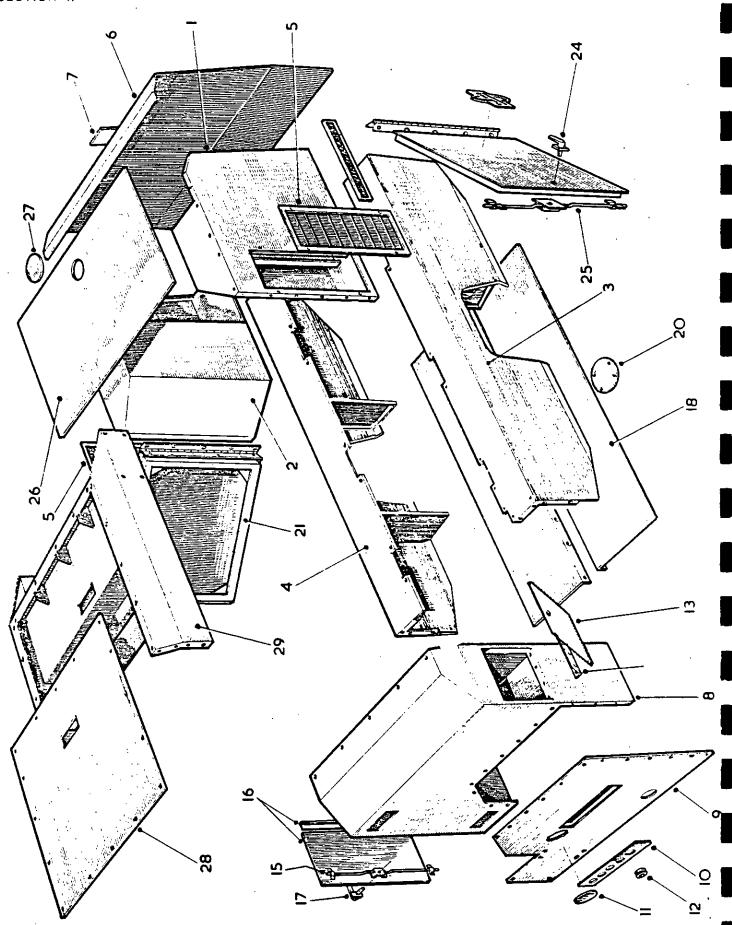
* Not illustrated.

OCTOBER '73

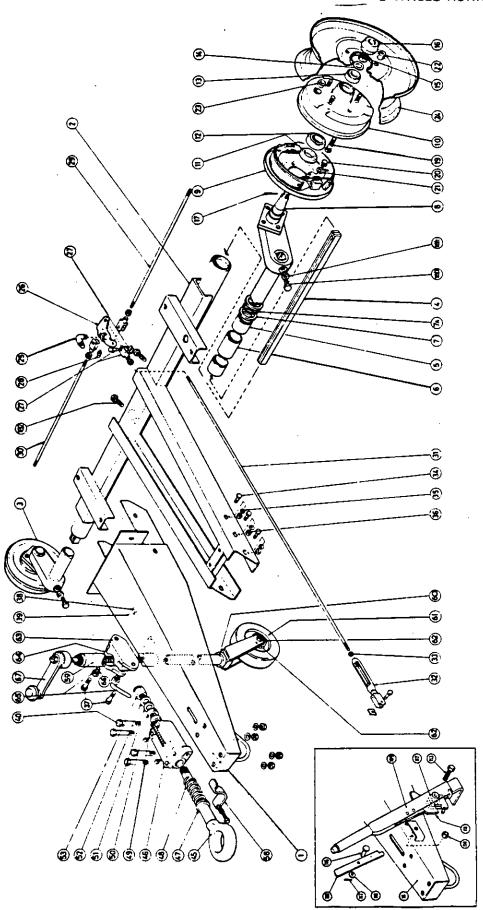
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| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|---------------|---|--------------------------------------|------|
| | HOUSING (2 WHEEL) | | |
| 1 | Air Inlet Duct - RH | T2K4805 | 1 |
| * | Setscrew | $3/8"$ UNC $\times \frac{3}{4}"$ | 7 |
| * | Spring Washer | 3/8" | 7 |
| 2 | Air Inlet Duct - LH | T2K4847 | 1 7 |
| * | Setscrew | $3/8"UNC \times \frac{3}{4}"$ | 7 |
| | Spring Washer Fender - RH | 3/8" T2K4917 | 1 1 |
| 3 | render - RH | $3/8$ "UNC x $\frac{3}{2}$ " | 8 |
| | Setscrew | 3/8" ONC X 4 | 8 |
| | Spring Washer Fender - LH | T2K4918 | 1 |
| 4 | Setscrew | $3/8"$ UNC $\times \frac{3}{4}"$ | 8 |
| * * | Spring Worker | 13/8" 13/8" | 8 |
| 5 | Spring Washer Air Inlet Grill | T2T5217 | 2 |
| * | Setscrew | 5/16"UNC x 5/8" | 8 |
| * | Flat Washer | 5/16" | 8 |
| 6 | Front Panel | 92284173 | i |
| * | | 5/16" UNC x 5/8 | 18 |
| * | Setscrew Spring Washer | 5/16" | 18 |
| 7 | I-R Monogram | 20A16A2D | 1 |
| 8 | Rear Housing Assembly | T2N2027 | 1 |
| * | Setscrew | 3/8"UNC x 3" | 10 |
| * | Spring Washer | 3/8" | 10 |
| 9 | Rear Panel | T2K4848 | 1 |
| * | Setscrew | 5/16"UNC x 5/8" | |
| * | Spring Washer | 5/16" | 16 |
| 10 | Discharge Pipe Cover | T2T5289 | 1 |
| * | Self Tapping Screw | No. 14 x $\frac{1}{2}$ " | 8 |
| 11 | Discharge Elbow Cover Plate | T2V8925 | 1 |
| 1 * | Setscrew | $\frac{1}{4}$ "UNC x $\frac{1}{2}$ " | 3 |
| 12 | Grommet | T23716-125 | 5 |
| 13 | Instrument Panel Access Door with Hinge | T2K4903 | 1 |
| 1 | | | |

PAGE 14. SECTION 4.

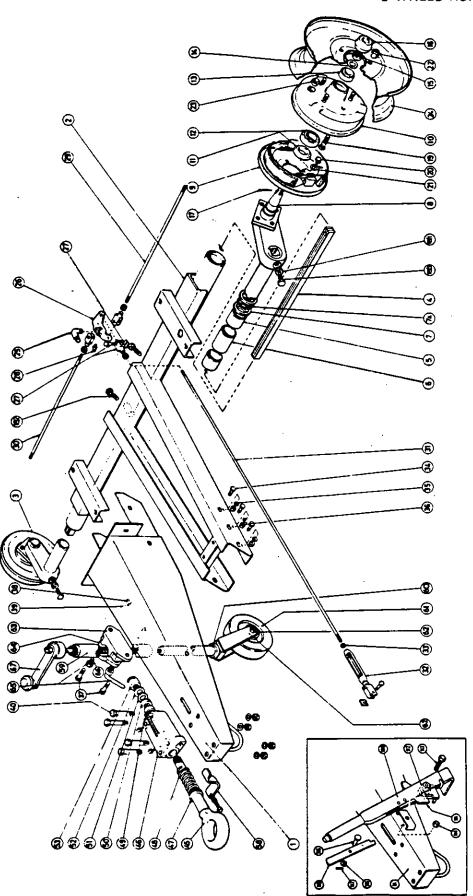


| | <u> </u> | | |
|---------|--|---|----------|
| Illus. | NAME OF PART | D. D. N.O. | QTY. |
| No. | Parts indented after an item are included with the item. | PART NO. | QII. |
| 110. | Tallo macinea and | | |
| | A Was Dad Latab | T2V8856 | 1 |
| 15 | 2 Way Rod Latch | T2K4800 | ī |
| 16 * | Filter Access Door with Hinge | $\frac{1}{4}$ " UNC x $\frac{1}{2}$ " | 5 |
| * | Setscrew | $\left \frac{1}{1} \right $ | 5 |
| | Spring Washer | T2V8858 | 1 |
| 17 | Handle | T2N2043 | î |
| 18 | Underside Baffle Plate | | 16 |
| * | Setscrew | $\frac{1}{4}$ " UNC x $\frac{1}{2}$ " | 16 |
| * | Spring Washer | 4 5/16" UNC x 5/8" | 18 |
| * | Setscrew | 5/16 UNC X3/8 | 18 |
| * | Spring Washer | 1 ' | 1 |
| 20 | Underside Baffle Plate Cover | T2V8791 $\frac{1}{4}$ " UNC x $\frac{3}{4}$ " | 4 |
| * | Setscrew | TONCX T | 4 |
| * | Spring Washer | 11 | 2 |
| 21 | Main Door with Hinge | T2K4812 | _ |
| * | Setscrew | 5/16" UNC x 5/8" | |
| * | Spring Washer | 5/16" | 10 |
| * | 2 Way Rod Latch 3/18793 | T2V8856 | 1 |
| 24 | Handle | T2V8858 | 2 |
| 25 | 2 Way Rod Latch 3/18624 | T2V8857 | 1 |
| 26 | Front Cover | T2T5272 | 1 |
| * | Setscrew | 5/16" UNC x 5/8" | |
| * | Spring Washer | 5/16" | 16 |
| 27 | Radiator Filler Sealing Plate | T2T5222 | 1 |
| * | Self Tapping Screw | No. 14 | 4 |
| 28 | Top Cover | T2K4809 | 1 |
| * | Setscrew | 5/16" UNC x 5/8" | |
| * | Washer | 5/16'' | 18 |
| 29 | Top Assembly | T2N2026 | 1 |
| * | Setscrew | 5 /16" UNC x 5/8" | 1 |
| * | Washer | 5/16" | 14 |
| | | | <u> </u> |



| Illus | | Parts indented after an item are included with the item. Set Rubery Owen 2 Wheel Running Gear | | |
|--|------|--|---|-------|
| Set Rubery Owen 2 Wheel Running Gear T2T2350 1 | No. | Set Rubery Owen 2 Wheel Running Gear | | |
| Running Gear | | Running Gear | T2T2350 | |
| Running Gear | | Running Gear | T2T2350 | _ |
| * Wheel & Tyre Assembly Complete 92296839 2 * Bolts -½" UNF x 1½" 1g 92273523 4 * Philidas Nuts -½" UNF 92022763 4 * Bolt -5/8"UNF x 1½" 92272459 4 * Philidas Nuts -5/8" 92271642 4 * Philidas Nuts -5/8" 92271642 4 1 Front Tow Bar 92305028 1 2 Rear Tow Bar/Axle Tube 92305036 1 3 Swinging Arm Hub & Brake Assembly LH 92305036 1 3a Swinging Arm Hub & Brake Assembly LH 92305051 1 4 Torsion Bar 92305036 2 5 Axle Tube Bush 92305077 4 6 Distance Piece 92305035 2 7 Felt Ring 92305035 4 7a "O" Ring 92305101 2 8 Swinging Arm LH 92305119 1 8 Swinging Arm RH 92305119 1 9 Brake Assembly LH 92305127 1 9 Brake Assembly LH 92305135 1 9 Brake Assembly LH 92305135 1 10 Brake Drum (complete with bearings) 92305136 2 (studs & nuts) 11 Grease Seal 92305184 2 12 Loner Bearings 92305184 2 13 Outer Bearings 92305100 2 (studs & nuts) 14 Washer 92305124 1 15 Slotted Nut 92305226 2 16 Grease Cap 92305226 2 17 Split Pin 92305226 2 18 Nut 92305226 2 18 Nut 92305226 2 18 Nut 92305226 2 18 Wheel Stud 92305225 8 21 Spring Washer 92305233 8 21 Spring Washer 92305331 1 22 Wheel Nut 92305331 1 23 Grease Nipple 92305331 3 24 Grease Nipple 92305334 1 25 Brake Rod LH 92305374 1 | | - | T2T2350 | |
| * Bolts - ½" UNF x 1¾" Ig 92273523 4 * Philidas Nuts - ½" UNF 92022763 4 * Bolt - 5/8" UNF x 1¾" 92227459 4 * Philidas Nuts - 5/8" 92271642 4 1 Front Tow Bar 92305028 1 2 Rear Tow Bar/Axle Tube 92305036 1 3 Swinging Arm Hub & Brake Assembly LH 92305044 1 3a Swinging Arm Hub & Brake Assembly RH 92305051 1 4 Torsion Bar 92305069 2 5 Axle Tube Bush 92305077 4 6 Distance Piece 92305085 2 7 Felt Ring 92305093 4 70" Ring 92305093 4 8 Swinging Arm RH 92305101 2 8 Swinging Arm RH 92305119 1 8a Swinging Arm RH 92305119 1 8a Swinging Arm RH 92305127 1 Brake Assembly LH 92305135 1 9a Brake Assembly LH 92305135 1 9a Brake Assembly LH 92305166 2 (studs & nuts) 11 Grease Seal 92305166 2 12 Inner Bearings 92305184 2 (studs & nuts) 11 Grease Cap 92305184 2 12 Inner Bearings 92305192 2 15 Slotted Nut 9230520 2 16 Grease Cap 92305242 2 18/A Nut 92305242 1 18/B Locking Screw 92305275 8 Nut 3/8" UNF 7/8" Ig 92305275 8 Nut 3/8" UNF 92305333 1 20 Wheel Stud 92305255 1 20 Bolt 3/8" UNF x 7/8" Ig 92305275 8 Nut 3/8" UNF 92305333 1 21 Spring Washer 92305333 1 22 Wheel Nut 92305333 1 23 Clevis Assembly 92305358 1 24 Spring Washer 92305358 1 25 Spring Washer 92305358 1 26 Compensator Lever 92305358 1 27 Clevis Assembly 92305358 1 28 Spring Washer 92305366 1 29 Brake Rod LH 92305374 1 | 1 | Wheel & Tyre Assembly Complete | | 1 |
| * Bolts - ½" UNF x 1¾" Ig 92273523 4 Phillidas Nuts - ½" UNF 92022763 4 * Bolt - 5/8" UNF x 1¾" 92227459 4 Phillidas Nuts - 5/8" 92271642 4 1 Front Tow Bar 92305028 1 2 Rear Tow Bar/Axle Tube 92305036 1 3 Swinging Arm Hub & Brake Assembly LH 92305044 1 3a Swinging Arm Hub & Brake Assembly RH 92305051 1 4 Torsion Bar 92305069 2 5 Axle Tube Bush 92305077 4 6 Distance Piece 92305085 2 7 Felt Ring 92305085 2 7 Felt Ring 92305093 4 7a "O" Ring 92305101 2 8 Swinging Arm LH 92305119 1 8a Swinging Arm RH 92305119 1 8a Swinging Arm RH 92305127 1 Brake Assembly LH 92305135 1 9a Brake Assembly LH 92305135 1 10 Brake Drum (complete with bearings) 92305166 2 (studs & nuts) 11 Grease Seal 92305184 2 Unner Bearings 92305184 2 Inner Bearings 92305184 2 14 Washer 92305226 2 15 Slotted Nut 92305226 2 16 Grease Cap 92305242 2 18 Locking Screw 92305249 2 18 Split Pin 92305275 8 Nut 3/8" UNF 92305235 1 20 Bolt 3/8" UNF 7/8" Ig 92305275 8 Nut 3/8" UNF 92305233 1 22 Spring Washer 92305333 1 23 Grease Nipple 92305333 1 24 Clevis Assembly 92305333 1 25 Clevis Assembly 92305333 1 26 Compensator Lever 92305333 1 27 Clevis Assembly 92305358 1 3 Spring Washer 92305358 1 3 Spring Washer 92305358 1 3 Spring Washer 92305366 1 3 Parke Rod LH 92305374 1 | * | WHEEL & I VIE ASSEMBLY COMPLETE AND A LANGE AND A LANG | 92296839 | 2 |
| * Philidas Nuts - ½" UNF. 92022763 4 * Bolt - 5/8"UNF x 1½" 92271642 4 1 Front Tow Bar 92305028 1 2 Rear Tow Bar/Axle Tube 92305036 1 3 Swinging Arm Hub & Brake Assembly LH 9230504 1 4 Torsion Bar 92305051 1 4 Torsion Bar 92305077 4 Distance Piece 92305085 2 7 Felt Ring 92305073 4 7a "O" Ring 9230501 2 8 Swinging Arm LH 9230511 1 8a Swinging Arm RH 92305127 1 9 Brake Assembly LH 92305135 1 9a Brake Assembly RH 92305135 1 10 Brake Drum (complete with bearings) 92305160 2 (studs & nuts) 11 Grease Seal 92305166 2 12 Inner Bearings 92305176 2 13 Outer Bearings 92305176 2 14 Washer 92305120 2 15 Slotted Nut 9230520 2 16 Grease Cap 9230520 2 17 Split Pin 92305224 2 18 Locking Screw 9230524 92305245 1 20 Bolt 3/8"UNF x 7/8" lg 92305275 8 Nut 3/8" UNF 9230533 1 22 Wheel Nut 9230533 1 23 Spring Washer 9230533 1 24 Spring Washer 9230533 1 25 "L" Bolt 92305358 1 26 Compensator Lever 9230533 1 27 Clevis Assembly 92305358 1 28 Grease Nipple 92305358 1 5 Spring Washer 92305357 10 5 Brake Rod LH 92305374 1 | 1 | Polte -1" IINE v 11" la | | |
| * Bolt - 5/8"UNF x 1¼" 92271642 4 1 Front Tow Bar 92305028 1 2 Rear Tow Bar/Axle Tube 92305036 1 3 Swinging Arm Hub & Brake Assembly LH 92305044 1 3a Swinging Arm Hub & Brake Assembly LH 92305061 1 4 Torsion Bar 92305036 2 5 Axle Tube Bush 92305077 4 6 Distance Piece 92305085 2 7 Felt Ring 92305093 4 7a "O" Ring 92305101 2 8 Swinging Arm HH 92305101 2 8 Swinging Arm LH 92305101 2 9 Brake Assembly LH 92305127 1 9 Brake Assembly LH 92305127 1 9 Brake Assembly LH 92305135 1 9a Brake Assembly LH 92305135 1 9b Brake Assembly LH 92305143 1 10 Brake Drum (complete with bearings) 92305168 2 (studs & nuts) 11 Grease Seal 92305168 2 12 Inner Bearings 92305168 2 13 Outer Bearings 9230516 2 14 Washer 9230512 2 15 Slotted Nut 92305200 2 16 Grease Cap 92305200 2 16 Grease Cap 9230524 2 18/3 Locking Screw 9230524 2 18/4 Locking Screw 9230524 2 18/5 Locking Screw 9230524 2 18/6 Locking Screw 92305275 8 Nut 3/8" UNF 92305333 1 28 Grease Nipple 92305341 3 28 Grease Nipple 92305366 1 29 Brake Rod LH 92305366 1 29 Brake Rod LH 92305366 1 29 Brake Rod LH 92305374 1 | 1 | Dhilidae Nute - ½" IINF | _ | |
| # Philidas Nuts - 5/8". 92271642 4 1 Front Tow Bar 2 Rear Tow Bar/Axle Tube 3 Swinging Arm Hub & Brake Assembly LH. 92305028 1 3a Swinging Arm Hub & Brake Assembly LH. 92305051 1 4 Torsion Bar 92305069 2 5 Axle Tube Bush 92305077 4 6 Distance Piece 92305085 2 7 Felt Ring 92305003 4 8 Swinging Arm LH 92305101 2 8 Swinging Arm LH 92305119 1 8a Swinging Arm RH 92305119 1 8a Swinging Arm RH 92305127 1 9 Brake Assembly LH 92305135 1 9a Brake Assembly RH 92305135 1 10 Brake Drum (complete with bearings) 92305160 2 (studs & nuts) 92305168 2 11 Grease Seal 92305168 2 12 Inner Bearings 92305176 2 13 Outer Bearings 92305176 2 14 Washer 92305192 2 15 Slotted Nut 92305200 2 16 Grease Cap 92305226 2 17 Split Pin 92305226 2 18 Nut 92305234 4 18/2 Locking Screw 92305242 2 18/3 Locking Screw 92305245 8 2 Wheel Stud 92305309 10 2 Wheel Stud 92305309 10 2 Spring Washer 92305333 1 2 Wheel Nut 92305303 1 2 Wheel Nut 92305303 1 2 Compensator Lever 92305333 1 2 Clevis Assembly 92305341 3 2 Grease Nipple 92305366 1 2 Brake Rod LH 92305374 1 | | | | |
| 1 Front Tow Bar 92305028 1 2 Rear Tow Bar/Axle Tube 92305036 1 3 Swinging Arm Hub & Brake Assembly LH. 92305036 1 4 Torsion Bar 92305069 2 5 Axle Tube Bush 92305069 2 5 Axle Tube Bush 92305085 2 7 Felt Ring 92305085 2 7 Felt Ring 92305101 2 8 Swinging Arm Hub 9230511 1 8a Swinging Arm LH 92305119 1 8a Swinging Arm RH 92305127 1 9 Brake Assembly LH 92305127 1 9 Brake Assembly LH 92305127 1 10 Brake Drum (complete with bearings) 92305160 2 (studs & nuts) 92305166 2 12 Inner Bearings 92305166 2 13 Outer Bearings 92305164 2 14 Washer 92305129 2 15 Slotted Nut 92305200 2 16 Grease Cap 9230520 2 17 Split Pin 92305226 2 18/1 Nut 92305224 2 18/2 Locking Screw 9230524 2 18/3 Locking Screw 9230524 2 18/4 Wheel Stud 92305275 8 Nut 3/8" UNF x 7/8" Ig 92305291 8 21 Spring Washer 92305303 10 22 Wheel Nut 92305303 10 25 "L" Bolt 3/8" UNF 92305333 1 26 Compensator Lever 92305341 3 27 Clevis Assembly 92305386 1 29 Brake Rod LH 92305374 1 | | | | |
| Rear Tow Bar/Axle Tube | * | Philidas Nuts - 5/8" | 92271642 | 4 |
| Rear Tow Bar/Axle Tube 92305036 1 | 1 | Front Tow Bar | 92305028 | 1 1 |
| Swinging Arm Hub & Brake Assembly LH. 92305044 1 | 2 | Rear Tow Bar/Axle Tube | 92305036 | ·1 |
| Swinging Arm Hub & Brake Assembly RH 92305051 1 4 Torsion Bar 92305069 2 2 5 Axle Tube Bush 92305077 4 6 Distance Piece 92305085 2 7 Felt Ring 92305093 4 7a "O" Ring 92305101 2 8 Swinging Arm LH 92305119 1 8a Swinging Arm RH 92305127 1 9 Brake Assembly LH 92305135 1 9a Brake Assembly RH 92305135 1 10 Brake Drum (complete with bearings) 92305150 2 (studs & nuts) | 3 | | 92305044 | 1 |
| 4 Torsion Bar 923050679 2 5 Axle Tube Bush 92305077 4 6 Distance Piece 92305093 4 7a "O" Ring 92305101 2 8 Swinging Arm LH 92305119 1 8a Swinging Arm RH 92305127 1 9 Brake Assembly LH 92305135 1 9a Brake Assembly RH 92305143 1 10 Brake Drum (complete with bearings) 92305150 2 (studs & nuts) 92305168 2 11 Grease Seal 92305176 2 12 Inner Bearings 92305184 2 13 Outer Bearings 92305192 2 14 Washer 92305200 2 15 Slotted Nut 92305200 2 16 Grease Cap 92305218 2 17 Split Pin 92305226 2 18/1 Nut 92305234 4 18/2 Locking Screw 92305249 2 | 3a | | 92305051 | 1 1 |
| 5 Axle Tube Bush 92305077 4 6 Distance Piece 92305085 2 7 Felt Ring 92305093 4 7a "O" Ring 92305101 2 8 Swinging Arm LH 92305119 1 8a Swinging Arm RH 92305127 1 9 Brake Assembly LH 92305135 1 9a Brake Assembly RH 92305143 1 10 Brake Drum (complete with bearings) 92305150 2 (studs & nuts) 92305168 2 11 Grease Seal 92305176 2 12 Inner Bearings 92305184 2 12 Inner Bearings 92305184 2 14 Washer 92305200 2 15 Slotted Nut 92305218 2 16 Grease Cap 92305218 2 17 Split Pin 92305226 2 18/1 Nut 92305234 4 18/2 Locking Screw 92305242 2 <td< td=""><td></td><td></td><td>92305069</td><td>· 2</td></td<> | | | 92305069 | · 2 |
| 6 Distance Piece 92305085 2 7 Felt Ring 92305093 4 7a "O" Ring 92305101 2 8 Swinging Arm LH 92305119 1 8a Swinging Arm RH 92305127 1 9 Brake Assembly LH 92305135 1 10 Brake Drum (complete with bearings) 92305150 2 (studs & nuts) 11 Grease Seal 92305168 2 12 Inner Bearings 92305176 2 13 Outer Bearings 92305176 2 14 Washer 92305192 2 15 Slotted Nut 92305200 2 16 Grease Cap 92305200 2 16 Grease Cap 92305200 2 17 Split Pin 92305200 2 18/1 Nut 92305234 4 18/2 Locking Screw 92305242 2 18/3 Locking Screw 92305242 2 18/3 Locking Screw 92305275 8 * Nut 3/8" UNF x 7/8" lg 92305275 8 * Nut 3/8" UNF 92305323 8 21 Spring Washer 92305333 1 25 Clevis Assembly 92305341 3 26 Compensator Lever 92305366 1 27 Clevis Assembly 92305366 1 28 Grease Ripple 92305374 1 | | | ł | 4 |
| 7 Felt Ring 92305093 4 7a "O" Ring 92305101 2 8 Swinging Arm LH 92305119 1 8a Swinging Arm RH 92305127 1 9 Brake Assembly LH 92305135 1 9a Brake Assembly RH 92305143 1 10 Brake Drum (complete with bearings) 92305150 2 (studs & nuts) 92305168 2 11 Grease Seal 92305176 2 12 Inner Bearings 92305184 2 13 Outer Bearings 92305192 2 14 Washer 92305200 2 15 Slotted Nut 92305200 2 16 Grease Cap 92305218 2 17 Split Pin 92305226 2 18/1 Nut 92305224 2 18/2 Locking Screw 92305242 2 19 Wheel Stud 92305249 2 20 Bolt 3/8"UNF 92305275 8 <tr< td=""><td>-</td><td></td><td>ſ</td><td></td></tr<> | - | | ſ | |
| 7a "O" Ring 92305101 2 8 Swinging Arm LH 92305119 1 8a Swinging Arm RH 92305127 1 9 Brake Assembly LH 92305135 1 9a Brake Assembly RH 92305143 1 10 Brake Drum (complete with bearings) 92305150 2 (studs & nuts) 92305168 2 11 Grease Seal 92305176 2 12 Inner Bearings 92305176 2 13 Outer Bearings 92305184 2 14 Washer 92305192 2 15 Slotted Nut 92305200 2 16 Grease Cap 92305226 2 17 Split Pin 92305226 2 18/1 Nut 92305226 2 18/2 Locking Screw 92305242 2 18/3 Locking Screw 92305242 2 19 Wheel Stud 92305267 10 20 Bolt 3/8"UNF 92305275 8 | _ | | 1 | |
| 8 Swinging Arm LH 92305119 1 8a Swinging Arm RH 92305127 1 9 Brake Assembly LH 92305135 1 9a Brake Assembly RH 92305143 1 10 Brake Drum (complete with bearings) 92305150 2 (studs & nuts) 92305168 2 11 Grease Seal 92305176 2 12 Inner Bearings 92305176 2 13 Outer Bearings 92305184 2 14 Washer 92305192 2 15 Slotted Nut 92305200 2 16 Grease Cap 92305218 2 17 Split Pin 92305226 2 18/1 Nut 92305224 2 18/2 Locking Screw 92305224 2 18/3 Locking Screw 92305242 2 19 Wheel Stud 92305225 8 * Nut 3/8" UNF 92305267 10 20 Bolt 3/8" UNF 92305283 < | · · | | ł | 1 |
| 8a Swinging Arm RH 92305127 1 9 Brake Assembly LH 92305135 1 9a Brake Assembly RH 92305143 1 10 Brake Drum (complete with bearings) 92305150 2 (studs & nuts) 92305150 2 11 Grease Seal 92305168 2 12 Inner Bearings 92305176 2 13 Outer Bearings 92305184 2 14 Washer 92305200 2 15 Slotted Nut 92305200 2 16 Grease Cap 92305218 2 17 Split Pin 92305226 2 18/1 Nut 92305234 4 18/2 Locking Screw 92305242 2 18/3 Locking Screw 92305249 2 19 Wheel Stud 92305249 2 20 Bolt 3/8"UNF x 7/8" lg 92305275 8 * Nut 3/8"UNF 92305291 8 21 Spring Washer 92305330 | | Suringing Arm T.H | l . | |
| 9 Brake Assembly LH. 92305135 1 9a Brake Assembly RH. 92305143 1 10 Brake Drum (complete with bearings) 92305150 2 | | Suringing Arm RH | | 1 |
| 9a Brake Assembly RH. 92305143 1 10 Brake Drum (complete with bearings) 92305150 2 (studs & nuts) 92305150 2 11 Grease Seal 92305168 2 12 Inner Bearings 92305176 2 13 Outer Bearings 92305184 2 14 Washer 92305192 2 15 Slotted Nut 92305200 2 16 Grease Cap 92305218 2 17 Split Pin 92305226 2 18/1 Nut 92305234 4 18/2 Locking Screw 92305242 2 18/3 Locking Screw 92305242 2 19 Wheel Stud 92305267 10 20 Bolt 3/8"UNF x 7/8" lg 92305275 8 * Nut 3/8"UNF 92305283 8 21 Spring Washer 92305333 1 25 "L" Bolt 92305333 1 26 Compensator Lever 92305341 | | Droke Assembly IV | | 1 - 1 |
| Brake Drum (complete with bearings) 92305150 2 (studs & nuts) | - | | i contract of the contract of | 1 - 1 |
| Studis & nuts Studis & nut | | | i | |
| 11 Grease Seal 92305168 2 12 Inner Bearings 92305176 2 13 Outer Bearings 92305184 2 14 Washer 92305192 2 15 Slotted Nut 92305200 2 16 Grease Cap 92305218 2 17 Split Pin 92305226 2 18/1 Nut 92305224 2 18/2 Locking Screw 92305242 2 18/3 Locking Screw 92305242 2 19 Wheel Stud 92305249 2 20 Bolt 3/8"UNF x 7/8" lg 92305247 10 20 Bolt 3/8"UNF y 2305283 8 21 Spring Washer 92305291 8 22 Wheel Nut 92305309 10 25 "L" Bolt 92305333 1 26 Compensator Lever 92305333 1 26 Compensator Lever 923053341 3 28 Grease Nipple 92305358 1 <td>10</td> <td></td> <td>32303130</td> <td>-</td> | 10 | | 32303130 | - |
| 12 | | • | | |
| 13 Outer Bearings 92305184 2 14 Washer 92305192 2 15 Slotted Nut 92305200 2 16 Grease Cap 92305218 2 17 Split Pin 92305226 2 18/1 Nut 92305234 4 18/2 Locking Screw 92305242 2 18/3 Locking Screw 92305249 2 19 Wheel Stud 92305267 10 20 Bolt 3/8"UNF x 7/8" lg 92305275 8 * Nut 3/8" UNF 92305283 8 21 Spring Washer 92305309 10 25 "L" Bolt 92305309 10 25 "L" Bolt 92305333 1 26 Compensator Lever 92305333 1 27 Clevis Assembly 92305358 1 28 Grease Nipple 92305366 1 * Spring Washer 92305366 1 29 Brake Rod LH 92305374 1 | | | 1 | |
| 14 Washer 92305192 2 15 Slotted Nut 92305200 2 16 Grease Cap 92305218 2 17 Split Pin 92305226 2 18/1 Nut 92305234 4 18/2 Locking Screw 92305242 2 18/3 Locking Screw 92305249 2 19 Wheel Stud 92305267 10 20 Bolt 3/8"UNF x 7/8" lg 92305275 8 * Nut 3/8"UNF 92305283 8 21 Spring Washer 92305291 8 22 Wheel Nut 92305309 10 25 "L" Bolt 92305325 1 26 Compensator Lever 92305333 1 27 Clevis Assembly 92305341 3 28 Grease Nipple 92305358 1 * Spring Washer 92305366 1 29 Brake Rod LH 92305374 1 | | | | |
| 15 Slotted Nut 92305200 2 16 Grease Cap 92305218 2 17 Split Pin 92305226 2 18/1 Nut 92305234 4 18/2 Locking Screw 92305242 2 18/3 Locking Screw 92305249 2 19 Wheel Stud 92305267 10 20 Bolt 3/8"UNF x 7/8" lg 92305275 8 Nut 3/8"UNF 92305283 8 21 Spring Washer 92305291 8 22 Wheel Nut 92305309 10 25 "L" Bolt 92305325 1 26 Compensator Lever 92305333 1 27 Clevis Assembly 92305341 3 28 Grease Nipple 92305358 1 * Spring Washer 92305366 1 29 Brake Rod LH 92305374 1 | | | | 2 |
| 16 Grease Cap 92305218 2 17 Split Pin 92305226 2 18/1 Nut 92305234 4 18/2 Locking Screw 92305242 2 18/3 Locking Screw 92305249 2 19 Wheel Stud 92305267 10 20 Bolt 3/8"UNF x 7/8" lg 92305275 8 21 Spring Washer 92305283 8 21 Spring Washer 923053291 8 22 Wheel Nut 92305309 10 25 "L" Bolt 92305333 1 26 Compensator Lever 92305333 1 27 Clevis Assembly 92305341 3 28 Grease Nipple 92305358 1 * Spring Washer 92305366 1 29 Brake Rod LH 92305374 1 | | | | |
| 17 Split Pin 92305226 2 18/1 Nut 92305234 4 18/2 Locking Screw 92305242 2 18/3 Locking Screw 92305249 2 19 Wheel Stud 92305267 10 20 Bolt 3/8"UNF x 7/8" lg 92305275 8 21 Spring Washer 92305283 8 21 Spring Washer 92305291 8 22 Wheel Nut 92305309 10 25 "L" Bolt 92305325 1 26 Compensator Lever 92305333 1 27 Clevis Assembly 92305341 3 28 Grease Nipple 92305358 1 * Spring Washer 92305366 1 29 Brake Rod LH 92305374 1 | | | 1 | |
| 18/1 Nut 92305234 4 18/2 Locking Screw 92305242 2 18/3 Locking Screw 92305249 2 19 Wheel Stud 92305267 10 20 Bolt 3/8"UNF x 7/8" lg 92305275 8 * Nut 3/8"UNF 92305283 8 21 Spring Washer 92305291 8 22 Wheel Nut 92305309 10 25 "L" Bolt 92305325 1 26 Compensator Lever 92305333 1 27 Clevis Assembly 92305341 3 28 Grease Nipple 92305358 1 * Spring Washer 92305366 1 29 Brake Rod LH 92305374 1 | 1 | | | |
| 18/2 Locking Screw. 92305242 2 18/3 Locking Screw. 92305249 2 19 Wheel Stud. 92305267 10 20 Bolt. 3/8"UNF x 7/8" lg 92305275 8 * Nut. 3/8"UNF 92305283 8 21 Spring Washer. 92305291 8 22 Wheel Nut. 92305309 10 25 "L" Bolt 92305325 1 26 Compensator Lever 92305333 1 27 Clevis Assembly 92305341 3 28 Grease Nipple 92305358 1 * Spring Washer 92305366 1 29 Brake Rod LH 92305374 1 | | Split Pin | • | I I |
| 18/3 Locking Screw. 92305249 2 19 Wheel Stud. 92305267 10 20 Bolt. 3/8"UNF x 7/8" lg 92305275 8 * Nut. 3/8"UNF 92305283 8 21 Spring Washer. 92305291 8 22 Wheel Nut. 92305309 10 25 "L" Bolt 92305325 1 26 Compensator Lever 92305333 1 27 Clevis Assembly 92305341 3 28 Grease Nipple 92305358 1 * Spring Washer 92305366 1 29 Brake Rod LH 92305374 1 | 18/1 | Nut | | |
| 18/3 Locking Screw. 92305249 2 19 Wheel Stud. 92305267 10 20 Bolt 3/8"UNF x 7/8" lg 92305275 8 * Nut 3/8"UNF 92305283 8 21 Spring Washer 92305291 8 22 Wheel Nut 92305309 10 25 "L" Bolt 92305325 1 26 Compensator Lever 92305333 1 27 Clevis Assembly 92305341 3 28 Grease Nipple 92305358 1 * Spring Washer 92305366 1 29 Brake Rod LH 92305374 1 | | Locking Screw | | - : |
| 20 Bolt 3/8"UNF x 7/8" lg 92305275 8 * Nut 3/8" UNF 92305283 8 21 Spring Washer 92305291 8 22 Wheel Nut 92305309 10 25 "L" Bolt 92305325 1 26 Compensator Lever 92305333 1 27 Clevis Assembly 92305341 3 28 Grease Nipple 92305358 1 * Spring Washer 92305366 1 29 Brake Rod LH 92305374 1 | | | • | |
| * Nut 3/8" UNF 92305283 8 21 Spring Washer 92305291 8 22 Wheel Nut 92305309 10 25 "L" Bolt 92305325 1 26 Compensator Lever 92305333 1 27 Clevis Assembly 92305341 3 28 Grease Nipple 92305358 1 * Spring Washer 92305366 1 29 Brake Rod LH 92305374 | 1 . | Wheel Stud | f | , , |
| 21 Spring Washer. 92305291 8 22 Wheel Nut 92305309 10 25 "L" Bolt 92305325 1 26 Compensator Lever 92305333 1 27 Clevis Assembly 92305341 3 28 Grease Nipple 92305358 1 * Spring Washer 92305366 1 29 Brake Rod LH 92305374 1 | | Bolt3/8"UNF x 7/8" lg | 1 | 1 , |
| 22 Wheel Nut 92305309 10 25 "L" Bolt 92305325 1 26 Compensator Lever 92305333 1 27 Clevis Assembly 92305341 3 28 Grease Nipple 92305358 1 * Spring Washer 92305366 1 29 Brake Rod LH 92305374 1 | * | Nut3/8" UNF | 1 | |
| 22 Wheel Nut 92305309 10 25 "L" Bolt 92305325 1 26 Compensator Lever 92305333 1 27 Clevis Assembly 92305341 3 28 Grease Nipple 92305358 1 * Spring Washer 92305366 1 29 Brake Rod LH 92305374 1 | 21 | Spring Washer | E . | F 1 |
| 26 Compensator Lever 92305333 1 27 Clevis Assembly 92305341 3 28 Grease Nipple 92305358 1 * Spring Washer 92305366 1 29 Brake Rod LH 92305374 1 | 22 | Wheel Nut | | 10 |
| 27 Clevis Assembly 92305341 3 | 25 | | | 1 - 1 |
| 27 Clevis Assembly 92305341 3 28 Grease Nipple 92305358 1 * Spring Washer 92305366 1 29 Brake Rod LH 92305374 1 | 26 | | 1 | |
| 28 Grease Nipple 92305358 1 * Spring Washer 92305366 1 29 Brake Rod LH 92305374 1 | 27 | | 1 | |
| * Spring Washer | 28 | | li . | 1 - |
| 29 Brake Rod LH 92305374 1 | I I | | 92305366 | 1 |
| | 29 | | 92305374 | : |
| 1 30 1 Diake nou ini | 30 | Brake Rod RH | 92305382 | 1 |
| * Barrel Adaptor - $5/16''$ UNF x $\frac{1}{4}''$ UNF 92305390 2 | 1 | Barrel Adaptor - $5/16$ " UNF x $\frac{1}{4}$ " UNF | 92305390 | 2 |
| | 31 | Brake Rod | 92305408 | 1 |

PAGE 18. SECTION 4.

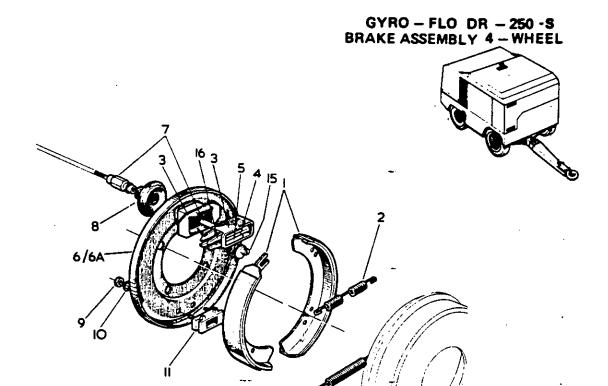


| Illus No | DESCRIPTION Parts indented after an item are included with the item | PART NO | QTY |
|-------------------|--|--------------|-----|
| | | | |
| 32 | Turnbuckle Assembly | 92305416 | 1 |
| 3 3 | Locknut | 92305424 | 6 |
| 34 | Bolt (none standard) | 92305432 | 6 |
| 35 | Washer (none standard) | 92305440 | 6 |
| 36 | Nut (none standard) | 92305457 | 6 |
| 37 | Bolt - $5/8$ " UNF x $1\frac{1}{2}$ " | 92305465 | 2 |
| 38 | Nut - 5/8" UNF | 92305473 | 2 |
| 39 | Spring Washer | 92305481 | 2 |
| 40 | Bolt - ½" UNF x 3" | 92305499 | 4 |
| * | Nut $-\frac{1}{2}$ " UNF | 92305507 | 4 |
| * | | 92305515 | 4 |
| 45 | Eye and Shaft | 92305564 | 1 |
| 46 | Hitch Body | 92305572 | 1 |
| 47 | Washer | 92305580 | 1 |
| 48 | Spring | 92305598 | 1 |
| 49 | Rubber Shock Absorber | 92305606 | 1 |
| 50 | Plain Washer | 92305614 | 1 |
| 53 · | Nut | 92305622 | 1 |
| 58 | Handle & Knob | 92305630 | 1 |
| 59 | Outer Tube Assembly | 92305648 | 1 |
| 60 | Inner Tube & Castor | 92305655 | 1 |
| 61 | Jockey Wheel | | 1 |
| 62 | Pivot Bracket | 92305689 | 1 |
| 63 | Top Cap | 92305697 | 1 |
| 65 | Locking Handle & Nut | 92305705 | 1 |
| 66 | Clamp Bolt & Nut | 92305713 | 1 |
| 67 | Bracket | 92305689 | 1 |
| * | Wheels - 500F | 92305317 | 2 |
| * | Tyres | 600 x 15 x 4 | 2 |
| 109 | Handbrake Complete | 92323724 | 1 |
| 110 | Lever | 92323732 | 1 |
| 111 | Ratchet | 92323740 | 1 |
| 112 | Spring | 92323757 | 1 |
| 112 | Pivot Bolt | 92323765 | 1 |
| 113 114 | Nut | 92323773 | 1 |
| | Pivot Pin | 92323781 | 1 |
| 115 116 | Plain Washer | 92376581 | lī |
| $\frac{116}{117}$ | Split Pin | 92323799 | lī |

Not illustrated.

Always give the serial number of your compressor.

Do not order by illustration number - order by part number.



| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY |
|---------------|--|----------|-----|
| * | BRAKE ASSEMBLY COMPLETE RH | T2102380 | 1 |
| * | BRAKE ASSEMBLY COMPLETE LH | T2102381 | 1 |
| 1 | Brake Shoe (Pair) | T2LB110 | 1 |
| 2 | Pull - off Spring | T225738 | 1 |
| 3 | Expander Body and Cover | T288645 | 1 |
| 4 | Lever - Inner | T288656 | 1 |
| 5 | Lever - Outer | T288650 | 2 |
| 6 | Back Plate Assembly RH | T2102382 | 1 |
| 6A | Back Plate Assembly LH | T2102383 | 1 |
| 7 | Pull Rod and Pin Assembly | T2103363 | 1 |
| 8 | Boot | T232324 | 1 |
| 9 | Nut | T2K18609 | 2 |
| 10 | Spring Washer | T2K19208 | 2 |
| 11 | Body and Abutment | T22594 | 1 |
| * | Pin for Expander - Long | T291139 | 1 |
| * | Pin for Expander - Short | T288653 | 2 |
| 14 | Tension Spring | T295393 | 1 |
| 15 | Micram Adjuster | T225254 | 1 |
| 16 | Mask | T225253 | 1 |

Not illustrated.
 Always give the serial number of your compressor.
 Do not order by illustration number - order by part number.

| Item No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|----------------|--|----------|------|
| 1 | Gyro Model Plate | T2V8884 | 2 |
| $\overline{2}$ | Nameplate | T2N2035 | 2 |
| 3 | General Data Plate | T2T5301 | 1 |
| 4 | Preventative Maintenance Plate | T2T5298 | 1 |
| 5 | Operating Instruction Plate | T2T5299 | 1 |
| 6 | Neoprene Adhesive Tags | | 24 |
| 7 | Front Panel Pad | T2V8835 | 1 |
| S | Inlet Duct Pad | T2V8836 | 6 |
| 9 | Inlet Pad | T2V8837 | 2 |
| 10 | Inlet Side Panel Pad | T2V8838 | 2 |
| 11 | Main Door Pad | T2V8841 | 2 |
| 12 | Bulk Head Pad | T2T5283 | 1 |
| 13 | Front Cover Pad | T2V8839 | 1 |
| 14 | Engine Cover Pad | T2V8840 | 1 |
| 15 | Rear Bulk Head Pad | T2V8842 | 1 |
| 16 | Radiator Pad | T2V8891 | 2 |
| 17 | Main Door Perforated Panel | T2V8843 | 2 |

FLEXIBLE TUBING

INDEX SECTION 5.

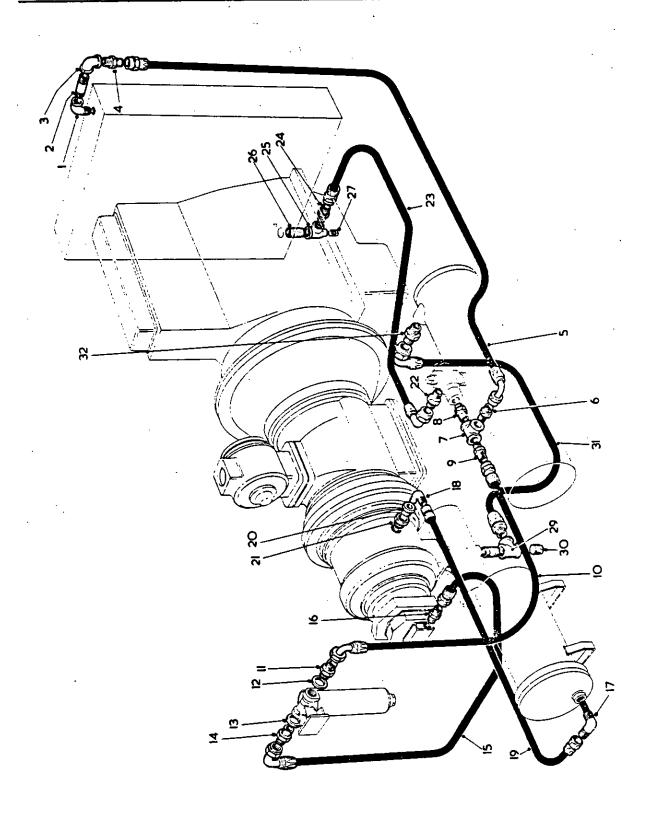
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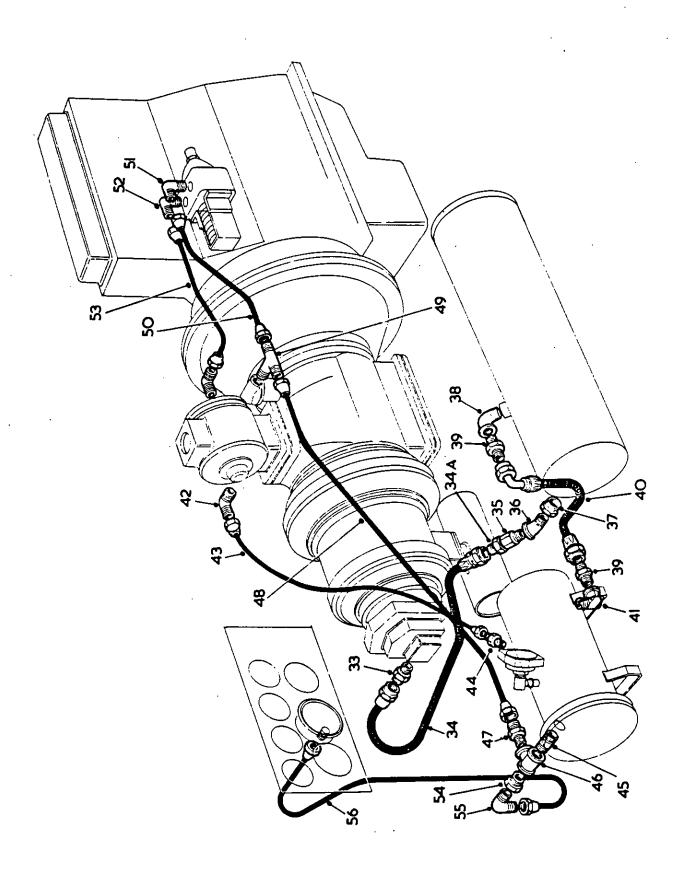


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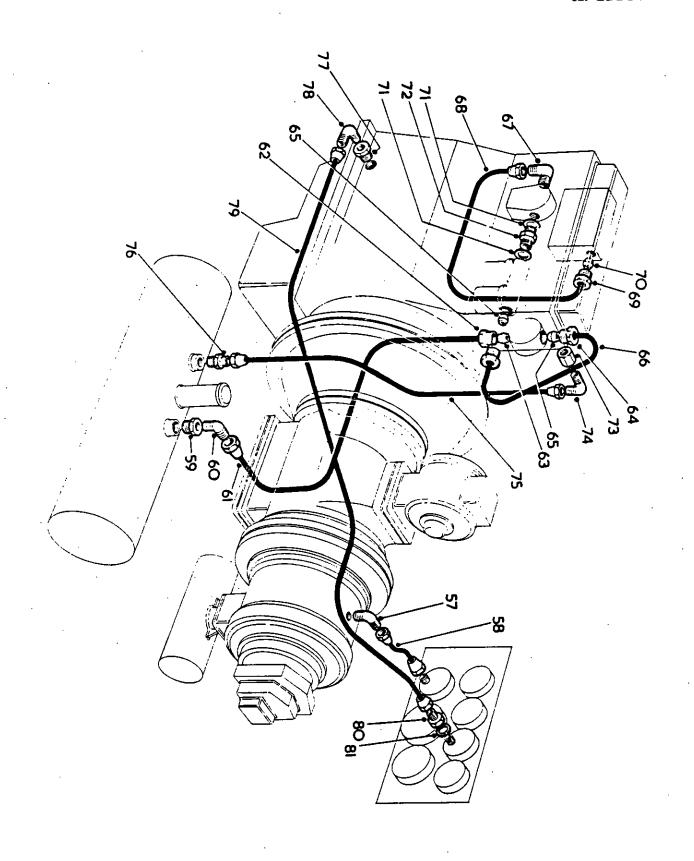
| | (| • | |
|--------------------------------------|--|---|----------------------------|
| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
| 1 2 3 4 5 6 7 8 | OIL COOLER OUTLET TO BYPASS VALVE 90 Male/Female Elbow Space Nipple x 7½"Long 90 Female Elbow Aeroquip Adaptor Aeroquip Hose Assembly Aeroquip Adaptor Equal 'T' Fitting Hex. Nipple | 3" BSPT 3" BSPT 4" BSPT T2 1320-12-12 T2 T5296/1 T2 1320-12-12 3" BSPT 3" BSPT | 1 1 1 1 1 1 |
| 9 10 11 12 | BYPASS VALVE TO OIL FILTER Aeroquip Adaptor Aeroquip Hose Assembly Aeroquip Adaptor Dowty Seal | T21320-12-12 T2T5296/2 T2V8830 T2V8829 | 1 1 1 |
| 13 14 15 16 | OIL FILTER TO OIL PUMP Dowty Seal Aeroquip Adaptor Aeroquip Hose Assembly Aeroquip Adaptor | T2V8829 T2V8830 T2T5296/3 T21320-12-12 | 1 1 1 |
| 17 18 19 20 21 | SECONDARY SEPARATOR TO HP CYLINDER (Scavenge Oil Line Screen Assembly Male Elbow Connector Aeroquip Hose Assembly Orifice Reducing Bush (HP Cyl) | 2W43735 TP 3/8" BSPT T2T5296/8 2X1080TP $\frac{3}{4}$ " x $\frac{1}{4}$ " BSPT | 1 1 1 1 |
| 22 23 24 25 26 27 | BYPASS TO OIL COOLER INLET Aeroquip Adaptor Aeroquip Hose Assembly Aeroquip Adaptor 'T' Fitting Space Nipple x 3" Long Pipe Plug | T21320-12-12 T2T5296/7 T21320-12-12 \frac{3}{4}" \times \frac{1}{2}" BSPT \frac{3}{2}" BSPT \frac{1}{2}" BSPT | 1 1 1 1 1 |
| 29 30 31 32 | HEADER BOTTLE TO PRIMARY SEPARATOR Tee BSPT Pipe Plug Aeroquip Hose Assembly Aeroquip Adaptor | $\begin{array}{c} 1\frac{1}{2}" \times 1\frac{1}{2}" \times \frac{1}{2}" \\ \frac{1}{2}" \text{ BSPT} \\ \text{T2T5269/6} \\ \text{T21320-12-12} \end{array}$ | 1 1 1 |

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| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|-----------------------------------|---|--|-----------------------|
| 33 34 34a 35 36 37 | OIL PUMP TO SEPARATOR RELIEF VALVE Male Straight Connector - BSPT Aeroquip Hose Male/Female Adaptor - BSPT Oil Pump Relief Valve Assembly 45° Male/Female Elbow Reducing Bush | 14" x 3/8" O/D T2T5296/4 14" x 3/8" O/D PCC 192 14" BSPT 12" x 14" BSPT | 1 1 1 1 1 |
| 38 39 40 41 | PRIMARY TO SECONDARY SEPARATOR 90 Male/Female Elbow | 1½" BSPT T21320-24-24 T2T5296/5 1½" BSPT | 1 2 1 1 |
| 42 43 44 | UL 89 TO AUTO BLOWDOWN VALVE Male Elbow Connector - BSPT - 608F Polypenco Tube Assembly Male Connector - NPT - 605F | ½" x 5/16" O/D T2T5296/12 1/8" x 5/16"O/D | 1 |
| 45 46 47 48 | SECONDARY SEPARATOR TO NORGREN VALVE Hex. Nipple | ½" BSPT ½" BSPT ½" x 5/16"O/D T2T5296/13 | 1 1 1 1 |
| 49 50 51 | NORGREN VALVE TO UL88 REGULATOR Male 'T' Connector - BSPT - 610F Polypenco Tube Assembly Male Elbow Connector - BSPT - 608F | ½" x 5/16" O/D T2T5296/14 ½"x 5/16" O/D | 1 |
| 52 53 | UL88 TO UL89 Male Elbow Connector - BSPT - 608F Polypenco Tube Assembly | ½" x 5/16" O/D T2T5296/15 | 2 |
| 54 55 56 | SECONDARY SEPARATOR TO HP DISCHARGE GAUGE Reducing Bush | ½'' - 1/8'BSPT 1/8'' x 3/16''O/D T2T5296/11 | 1 1 1 |





| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|----------------------------|---|--|------------------|
| 57 58 | H.P. CYLINDER INLET TO INTERSTAGE Male Elbow Connector - BSPT - 608F Polypenco Tube Assembly | 1/8'' x 3/16'' O/D T2T5296/10 | 1 1 |
| 59 60 61 62 63 | FUEL TANK TO FUEL PUMP Reducing Bush - BSPT Male Elbow Connector - BSPT Polypenco Tube Assembly Tube Nut - Z404 Olive - Z18 | $\frac{3}{4}$ " x $\frac{1}{4}$ " $\frac{1}{4}$ " x 5/16" O/D T2T5296/16 5/16" Dia. | 1 1 1 1 |
| 64 65 66 | FUEL PUMP TO FILTER Tube Nut - Z18 Tube Olive - Z404 Polypenco Tube Assembly | 5/16" Dia. 5/16" Dia. T2T5296/17 | 2 2 1 |
| 67 68 69 70 | FUEL SOLENOID TO FUEL PUMP Male Elbow Connector - BSPT Polypenco Tube Assembly Nut Olive | 1/4" x 5/16" O/D T5296/18 5/16" O/D 5/16" | 1 1 1 |
| 71 72 | FUEL FILTER TO FUEL SOLENOID Copper Washer | ½'' dia x3/64th. T2V5712 | 1 |
| 73 74 75 76 | ENGINE TO FUEL TANK (EXCESS FUEL) Adaptor Male Elbow Connector - BSPT Polypenco Tube Assembly Male Connector - BSPT | T2V8297 1/8''x 3/16'' O/D T2T5296/19 1/4'' x 3/16'' O/D | 1 1 1 1 |
| 77 78 79 80 81 | ENGINE TO OIL PRESSURE GAUGE Reducing Connector - BSPT - Z325-9 Male Elbow Adaptor - BSPT - Y116 Polypenco Tube Assembly Female Connector Fibre Washer 5/16"O/Dx5/32"IDx3/64" Thick | 5/16" x 3/16" O/1 3/8" x 5/16" O/D T2T5296/9 T2V4818 | 1 |

^{*} Not illustrated.

| Item No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|-------------|---|-------------------------------|------|
| 1 | 90° M/F Elbow(By-Pass to Oil Cooler Inlet) | ∄" BSPT | 1 |
| 2 | Rubber Grommet | T23716-125 | 1 |
| 3 | Hose Clip | T2HO1330-8 | 4 |
| 4 | Hose Clip | T2HD1300-4 | 2 |
| 5 | Hose Clip | T2HD1300-1 | 2 |
| 6 | Set Screw | 5/16"UNC x 1" | |
| 7 | Philidas Nut | 5/16" UNC | 2 |
| 8 | Back Plate | T2V3365 | 3 |
| 9 | Double Pipe Clip | T2W029554 | 3 |
| 10 | Nylastic Adjustable Pipe Clip | No. 2 | 2 |
| 11 | Nylastic Adjustable Pipe Clip | No. 1 | 2 |
| 12 | Rd. Hd. Screw | $3/16$ "BSW x $\frac{3}{4}$ " | 3 |
| 13 | Lockwasher | 3/16" | 3 |
| 14 | Washer | 3/16" | 3 |
| 15 | Hex. Nut | 3/16" BSW | 3 |
| 16 | Pipe Bracket | T2V7820 | 2 |
| 17 | Pipe Bracket | T2V5566 | |
| 18 | Pipe Bracket | T2V5946 | |
| 19 | Pipe Bracket | T2V5947 | 1 |

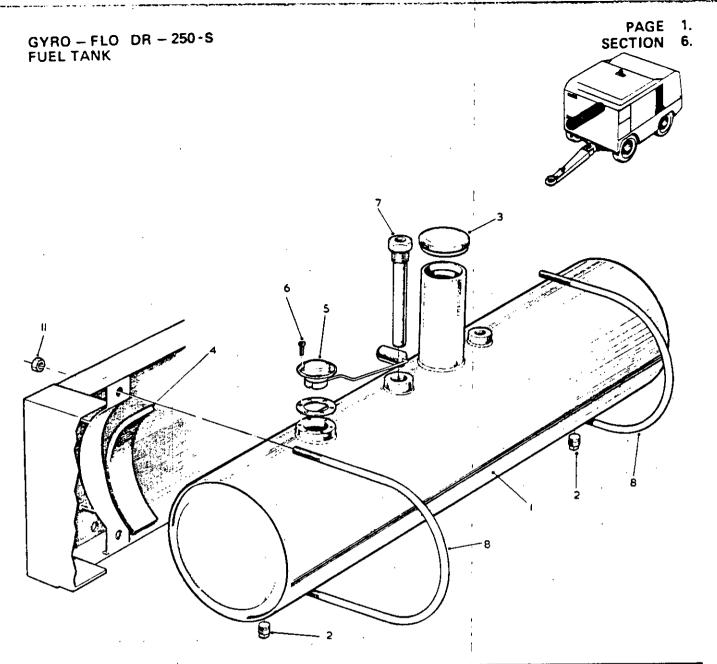
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AUXILIARY PARTS

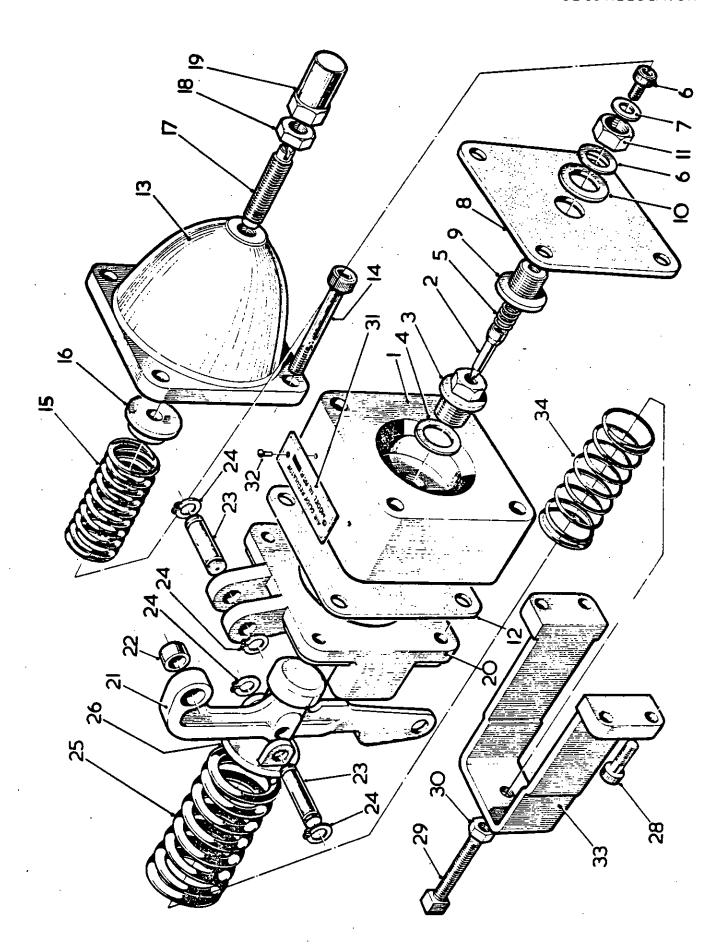
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| Oil Temp By-Pass Valve | Page 5 |
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| Secondary Oil Separator | Page 8 - 9 |
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| Radiator & Oil Cooler | Page 12 - 13 |
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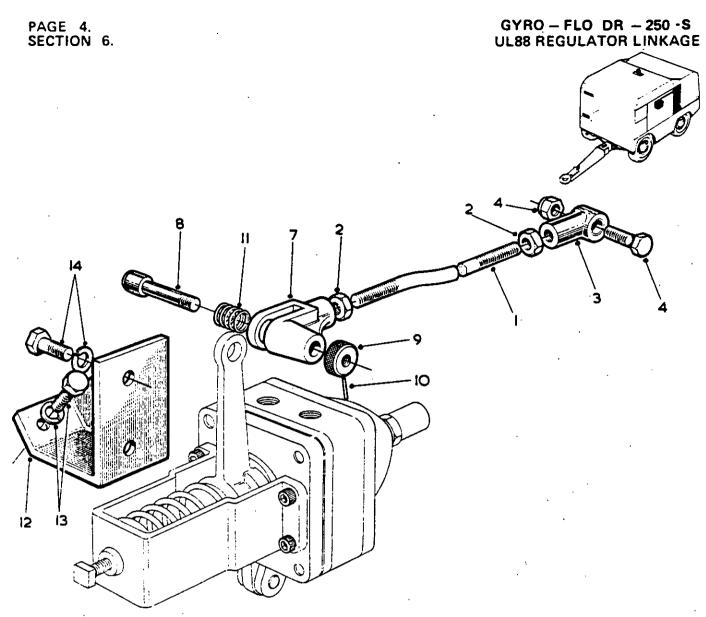
| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|--------------------------------------|--|--|---|
| 1 2 3 4 5 6 7 8 | FUEL TANK Fuel Tank Pipe Plug Fuel Tank Cap Fuel Tank Cushion Fuel Lever Sender Unit Screws Fuel Tank Outlet Adaptor Fuel Tank Strap Fuel Tank Strap Locknut | T2K4819 1/4" BSPT T2EOA9030 3/16" x 2" x 4" T2V8827 4BA x 3/8" 2W56976 2W48580 3/8" UNC | 1 2 1 4 1 6 1 2 4 |





| Illus. | NAME OF PART | D. D. N.O. | QTY. |
|--------|--|--|-----------------|
| No. | Parts indented after an item are included with the item. | PART NO. | Q11. |
| | UL88 SPEED & PRESSURE REGULATOR COMPLETE | TUL88R210BB | 1 |
| 1 | UL88 Regulator Body | 2R15427P2 | 1 |
| * 1 | UL88 Regulator Repair Kit | UL88 - 200 | 1 |
| 2 | UL88 Regulator Metering Pin | 2W32936 | 1 |
| 3 | UL88 Regulator Metering Pin Seat | 2W31748P2 | 1 |
| 4 | UL88 Regulator Metering Pin Seat Gasket. | T2V4912 | 1 |
| 5 | UL88 Regulator Metering Pin Spring | PP607 | 1 |
| 6 | UL88 Regulator Socket Head Set Screw | 5/16'' - 24 x 3/8" | 1 |
| 7 | UL88 Regulator Set Screw Gasket | X1108T20 | 1 |
| 8 | UL88 Regulator Top Cover Diaphragm | 2W37087 | 1 |
| 9 | UL88 Regulator Top Cover Diaphragm Bolt | 2W32937 | 1 |
| 10 | Top Cover Diaphragm Washer | 1W1619P1 | 1 |
| 11 | Top Cover Diaphragm Bolt Nut | 2W32938 | 1 |
| 12 | UL88 Regulator Bottom Cover Diaphragm . | 2W34874 | 1 |
| 13 | UL88 Regulator Top Cover | 2R15430 | 1 |
| 14 | UL88 Regulator Top Cover Set Screw | $7/16'' - 14 \times 2\frac{3}{4}$ | 4 |
| 15 | UL88 Regulator Pilot Valve Spring | PP412 | 1 |
| 16 | UL88 Regulator Pilot Valve Spring Seat | 2W90675 | 1 |
| 17 | UL88 Regulator Pilot Valve Adjusting Screw | 2W26388 | 1 |
| 18 | Pilot Valve Adjusting Screw Lock Nut | 2W46062 | 1 |
| 19 | UL88 Regulator Pilot Valve Adjusting Screw Nut | 2W12826P1 | 1 |
| 20 | UL88 Regulator Bottom Cover | 2R17467P1 | 1 |
| 21 | UL88 Regulator Lever | 2R17498ATP | 1 |
| 22 | UL88 Regulator Lever Bushing | 2W37528 | 1 |
| 23 | UL88 Regulator Shaft | 2W26387 | 2 |
| 24 | UL88 Regulator Retaining Ring | 2W32830 | 4 |
| 25 | UL88 Regulator Range Spring - Outside | PP604 | 1 |
| 26 | UL88 Regulator Range Spring Seat | , | 1 |
| 28 | UL88 Support Socket Head Set Screw | $\frac{1}{4}$ " - 20 x $\frac{3}{4}$ " | 4 |
| 29 | Minimum Speed Screw (Square Head) | $5/16'' - 18 \times 2\frac{3}{4}''$ | 1 |
| 30 | Locknut | 5/16" - 18 | 1 |
| 31 | UL88 Regulator Name Plate | 2R35027 | 1 |
| 32 | UL88 Regulator Name Plate Drive Screw | No. 2. $x^{\frac{1}{4}}$ | 2 |
| 33 | UL88 Regulator Range Spring Support | 2W31759P1 | 1 |
| 34 | UL88 Regulator Range Spring - Inside | T2V4677 | 1 |

^{*} Not illustrated.

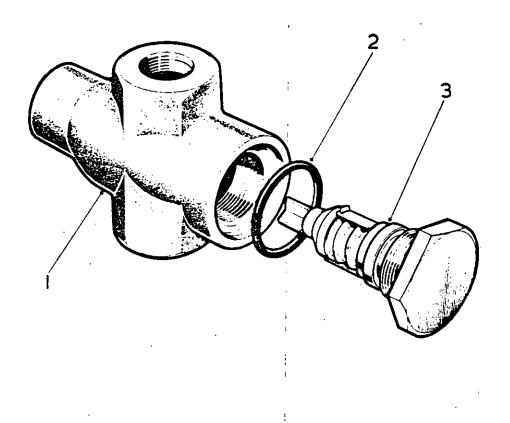


| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|--------------------------------------|---|---|--------------------------------------|
| 1 2 3 4 * 7 8 9 | Governor Lever Link Rod Nut Unibal Unibal Unibal to Lever Set Screw, Nut & Lockwasher UL88 Regulator Manual Speed Latch Assembly UL88 Regulator Manual Speed Latch UL88 Regulator Manual Speed Latch Pin UL88 Regulator Latch Plunger Pull Knob UL88 Regulator Latch Plunger Pull Knob Pin | X1519T16 ½" UNF 2W78185 ½" - 20 x 7/8" 2W35049 2W35048 2W35046 2W43729 094 x ½" | 1 2 1 1 1 1 1 1 |
| 11 12 13 14 | UL88 Speed Latch Plunger Spring UL88 Regulator Mounting Bracket Set Screw, Plain & Lockwasher Mounting Bracket Set Screw & Lockwasher(Brkt to Reg) | PP232 T2K4790 7/16"UNC x 1" | 1 1 2 2 |

* Not illustrated.

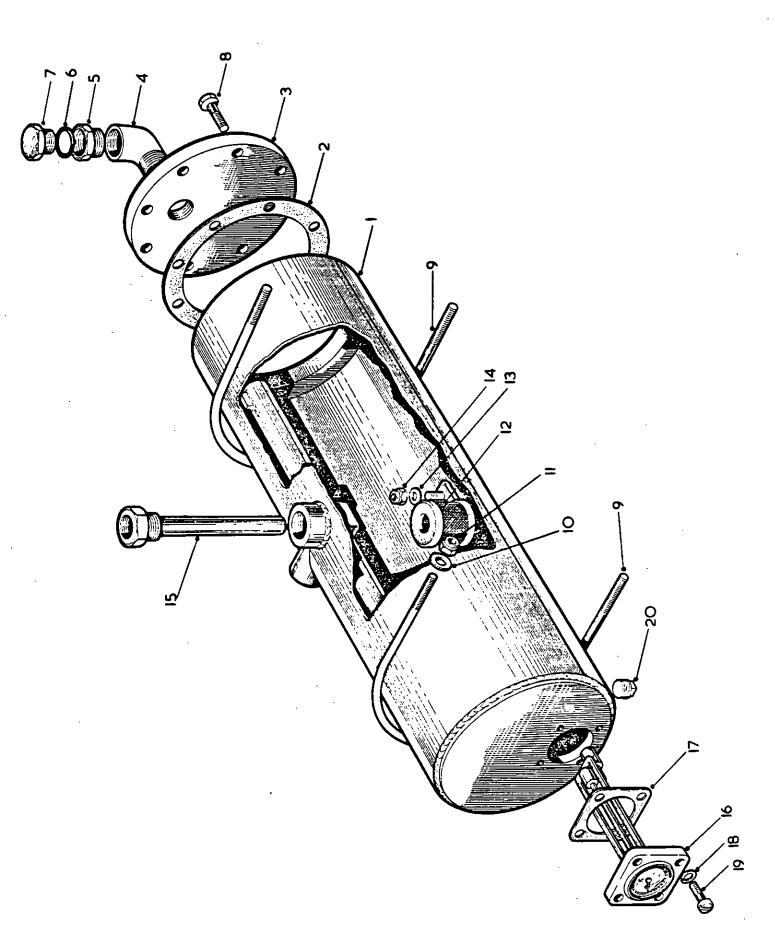
Always give the serial number of your compressor.

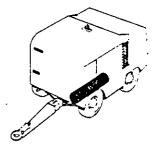
Do not order by illustration number - order by part number.



| Illus. No. | Parts indented after an item are included with the item | Part Number | Qty. |
|---------------|---|-----------------------|-------------|
| 1 2 3 | OIL TEMPERATURE BY-PASS VALVE COMPLETE By - Pass Valve Body By - Pass Valve "O" Ring By - Pass Valve | 2H16018 X1514T220C | 1 1 1 |

Always give the serial number of your compressor.

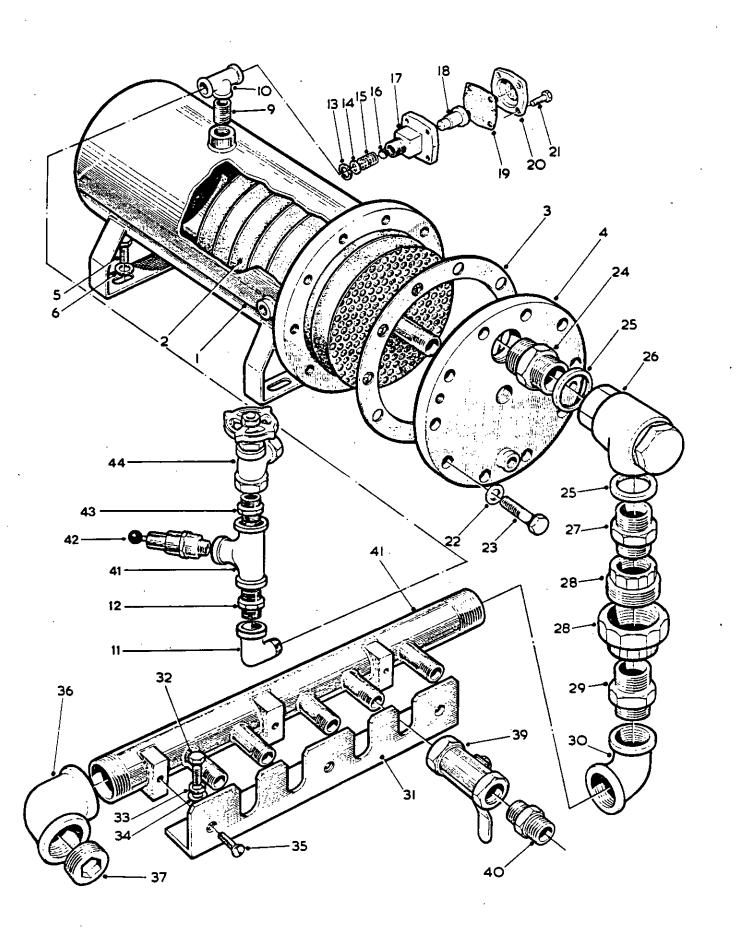




| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|---------------|--|---|------|
| 1 | PRIMARY OIL SEPARATOR TANK | T2N1094 | 1 |
| 2 | Oil Separator Tank to Cover Gasket | 2W48729 | 1 |
| 3 | Primary Oil Separator Tank Cover | 2W48724P1 | 1 |
| 4 | Oil Filler Street Elbow - Reducing | $1\frac{1}{2}$ " x $1\frac{1}{4}$ " BSP | 1 |
| 5 | Oil Filler Hole Adaptor | 2R26539TP | 1 |
| 6 | Oil Filler Hole "O" Ring | X1514T214C | 1 |
| -7 | Oil Filler Hole Plug | 2W48777TP | 1 |
| 8 - | Primary Oil Separator Tank Cover Set Screw | $5/8'' - 11 \times 1\frac{1}{2}''$ | 8 |
| 9 | Primary Oil Separator Tank Strap | 2W48580 | 2 |
| 10 | Primary Oil Separator Tank Strap Washer | 3/8'' | 4 |
| 11 | Primary Oil Separator Tank Strap Nut | 3/8" UNF | 4 |
| 12 | Primary Oil Separator Filter Screen Assembly | 2R26531 | 1 |
| 13 | Oil Filter Screen Bracket Washer | 2W48723 | 1 |
| 14 | Oil Filter Screen Assembly Locknut | 3/8" - 16 | 1 |
| 15 | Primary Separator Tank Outlet Pipe Assembly | T2V5459 | 1 |
| 16 | Primary Separator Tank Oil Level Gauge | 2R17410 | 1 |
| 17 | Primary Separator Tank Oil Level Gauge Gasket. | T2T4949 | 1 |
| 18 | Primary Separator Tank Oil Level Gauge Lockwasher. | 5/16" x .435 od. | 4 |
| 19 | Primary Separator Tank Oil Level Gauge Set Screw | 5/16" - 18 x 7/8" | |
| 20 | Pipe Plug | $\frac{1}{2}$ " BSP | 2 |

* Not illustrated.
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GYRO - FLO DR - 250 -S' SECONDARY OIL SEPARATOR

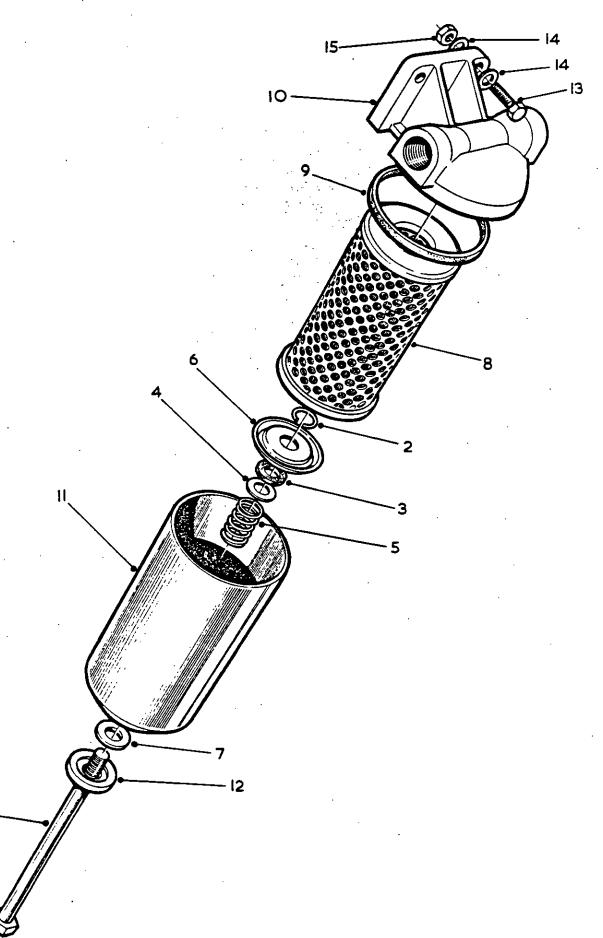




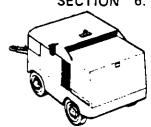
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|--------|--|-----------------------------|------|
| Illus. | NAME OF PART | PART NO. | QTY. |
| No. | Parts indented after an item are included with the item. | PART NO. | Q11. |
| 1 | SECONDARY OIL SEPARATOR TANK | T2N2031 | 1 |
| 2 | Oil Separator Screen Assembly | 2R26443 | 1 |
| 3 | Tank Cover Gasket | 2W48579 | 1 |
| 4 | Tank Cover | T2N2031/1 | 1 |
| 5 | Setscrew | 3/8"UNC x 1" | 4 |
| 6 | Flat Washer and Spring Washer | 3/8" Dia. | 4 |
| 9 | Close Nipple | 3'' BSPT | 1 |
| 10 | Tee Fitting | 3/4" BSPT | 1 |
| , - | 90 deg. Male/Female Elbow | ³" BSPT | 1 |
| 11 | | 3'' BSPT | 1 |
| 12 | Hex. Nipple AUTOMATIC BLOWDOWN VALVE ASSEMBLY | 2W56923 | 1 |
| | | X1319T12 | ī |
| 13 | Retaining Ring | X1016T113 | 1 |
| 14 | Washer | PP888 | 1 |
| 15 | Spring | 9/16" Dia. | ī |
| 16 | Ball | 2W56993 | 1 |
| 17 | Valve Body | 2W56922 | 1 |
| 18 | Valve Piston | 2W48114 | î |
| 19 | Valve Diaphragm | 2W48114 2W48116 | 1 |
| 20 | Valve Cover | 5/16" UNC x 1" | 4 |
| 21 | Setscrew | 5/8" Dia. | 10 |
| 22 | Flat Washer | 5/8"UNC x 2" ht. | 10 |
| 23 | Setscrew | 1 . | |
| 24 | Aeroquip Adaptor | T21320-24-24 | 1 2 |
| 25 | Dowty Oil Seal | $1\frac{1}{2}$ ' Dia. | _ |
| 26 . | Minimum Pressure Valve | T2V8818 |]] |
| 27 | Aeroquip Adaptor | 1320-24-24 | 1 |
| 28 | Female Union Fitting | 1½" BSP | _ |
| 29 | Hex. Nipple | 1½" BSPT | 1 |
| 30 | 90 deg. Female Red. Elbow | $2'' - 1\frac{1}{2}'' BSPT$ | 1 |
| 31 | Discharge Pipe Bracket | T2K4836 | 1 |
| 32 | Setscrew | 3/8" UNC x 1" | 3 |
| 33 | Springwasher | 3/8" Dia. | 3 |
| 34 | Flat Washer | 3/8" Dia. | 3 |
| 35 | C/sunk Head Setscrew | 3/8"UNC x 1" | 3 |
| 36 | 90 deg. Elbow | 2" BSPT | 1 |
| 37 | C/Sunk Head Plug | 2" BSPT | 1 |
| 39 | Hand Valve | T2V8816 | 4 |
| 40 | Hex. Nipple | 3/4" BSPT | 4 |
| 41 | Discharge Pipe | T2K4837 | 1 |
| 42 | Safety Valve | 3/4" BSPT | 1 |
| 43 | Hex. Nipple | 3/4" BSPT | 1 |
| 44 | Hand Valve | ½" BSPT | 1 |
| 1 | | | 1 |

Always give the serial number of your compressor.

GYRO - FLO DR - 250-S OIL FILTER



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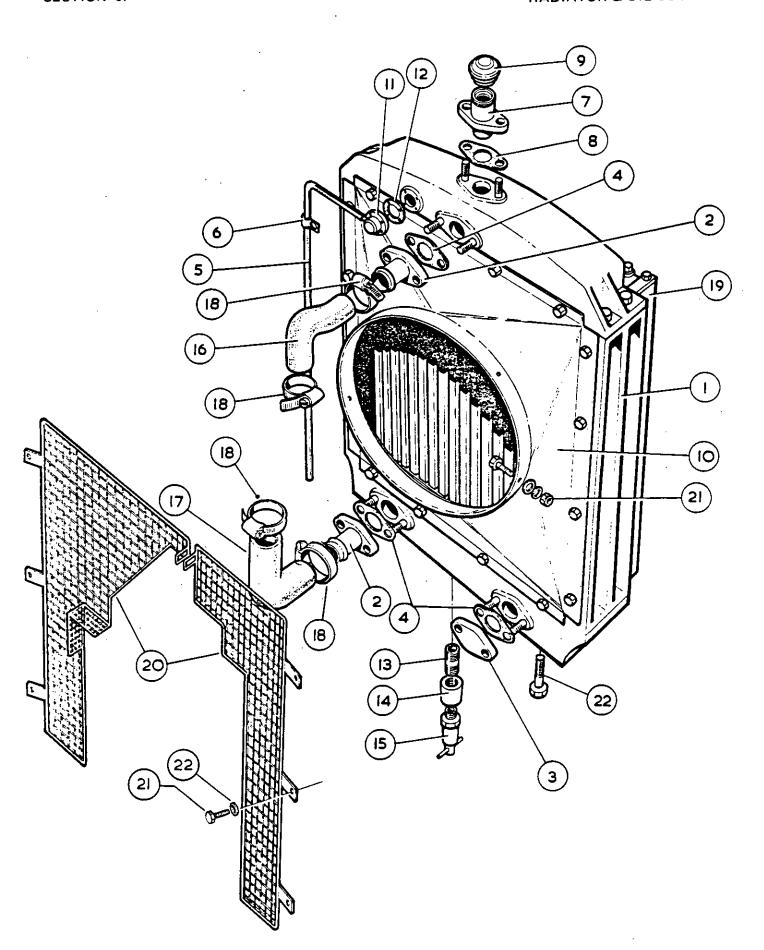
| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|---------------|---|-------------------------------|------|
| | OIL FILTER COMPLETE | T2V8819 | 1 |
| 1 | · · | T2V8819/ 1 | 1 |
| 1 | Filter Screw | T2V8819/ 2 | 1 |
| 2 | Retaining Ring | T2V8819/ 3 | 1 |
| 3 | Fibre Washer | T2V8819/ 4 | 1 |
| 4 | Steel Washer | T2V8819/5 | 1 1 |
| 5 | Spring | T2V8819/ 6 | 1 7 |
| 6 | End Plate | | 1 |
| 7 | Washer | T2V8819/ 7 | 1 1 |
| 8 | Element | T2V8819/8 | 1 |
| 9 | Gasket | T2V8819/9 | 1 |
| 10 | Cover | T2V8819/10 | Į 1 |
| 11 | Body | T2V8819/11 | 1 |
| 12 | End Cover | T2V8819/12 | 1 |
| 13 | Set Screw | $5/16$ "UNC x $\frac{3}{4}$ " | 2 |
| 14 | Spring Washer | 5/16" | 2 |
| 15 | Hex. Nut | 5/16" UNC | 2 |
| * | Filter Bracket | T2T5308 | 1 |
| * | Element Replacement Kit | T2V8820 | 1 |

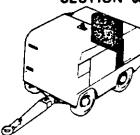
* Not illustrated.

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Do not order by illustration number - order by part number.

GYRO - FLO DR - 250 -S RADIATOR & OIL COOLER





| | | S. | |
|--------|--|--------------|------|
| Illus. | NAME OF PART | | |
| No. | Parts indented after an item are included with the item. | PART NO. | QTY. |
| | · · · · · · · · · · · · · · · · · · · | | |
|] | RADIATOR & OIL COOLER COMPLETE | T2T5313 | 1 |
| | RADIATOR COMPLETE | T2T5313/ 1 | 1 |
| 1 | Side Standard | T2T5313/2 | 2 |
| 2 | Water Pipe | T2T5313/3 | 2 |
| 3 | Blank Flange | T2T5313/4 | 1 |
| 4 | Joint - Water Pipe & Blank Flange | T2T5313/5 | 3 |
| 5 | External Overflow Pipe | T2T5313/ 6 | 1 |
| 6 | Overflow Pipe Clip | T2T5313/ 7 | 2 |
| * | Internal Overflow Pipe Assembly | T2T5313/ 8 | 1 |
| 7 | Filler Assembly | T2T5313/9 | 1 |
| 8 | Joint - Filler Connection | T2T5313/10 | 1 |
| 9 | Filler Cap | T2T5313/11 | 1 |
| * | Filler Cap Washer | T2T5313/12 | 1 |
| 10 | Fancowl | T2T5313/13 | 1 |
| 11 | Relief Valve | T2T5313/14 | 1 |
| 12 | Joint - Relief Valve | T2T5313/15 | 1 |
| * | Tube Block Complete | T2T5313/16 | 1 |
| * | Top Tube Plate | T2T5313/17 | 1 |
| * | Bottom Tube Plate | T2T5313/18 | 1 |
| * | Joint - Tube Plates | T2T5313/19 | 2 |
| 13 | Space Nipple | ½"BSPT x 3" | 1 |
| 14 | Reducing Socket | ½" x¼" BSPT | 1 |
| 15 | Drain Cock | K. 82 | 1 |
| 16 | Radiator Upper Hose | 92312842 | 1 |
| 17 | Radiator Lower Hose | . 92312859 | 1 |
| 18 | Hose Clips | No. 3 | 4 |
| | OIL COOLER COMPLETE | T2T5313/20 | 1 |
| * | Header Tank - Top | T2T5313/2. | 1 |
| * | Header Tank - Bottom | T2T5313/22 | 1 |
| * | Joint - Header Tank | T2T5313/23 | 2 |
| * | Oil Connection Flange | T2T5313/24 | 2 |
| | Blank Flange | T2T5313/25 | 2 |
| * | Joint - Oil Connection & Blank Flange | T2T5313/26 | 4 |
| 19 | Side Air Baffle | T2T5313/27 | 2 |
| * | Mounting Bracket | T2T5313/28 | 6 |
| * | Tube Block Complete | T2T5313/29 | 1 |
| * | Tube Stay Complete | T2T5313/30 | 2 |
| * | Air Baffle - Top & Bottom | T2T5313/31 | 2 |
| * | Coverplate for Vent Holes | T2T5313/32 | 1 |
| * | Joint - Coverplate | T2T5313/33 | 1 |
| 20 | Fan Guard | T2K4898 | 1 |
| 21 | Set Screw | 3/8"UNC x 1" | 7 |
| 22 | Lockwasher | 3/8" | 7 |
| * | Flat Washer | 3/8" | 7 |
| * | Hex. Nut | 3/8" UNC | 1 |

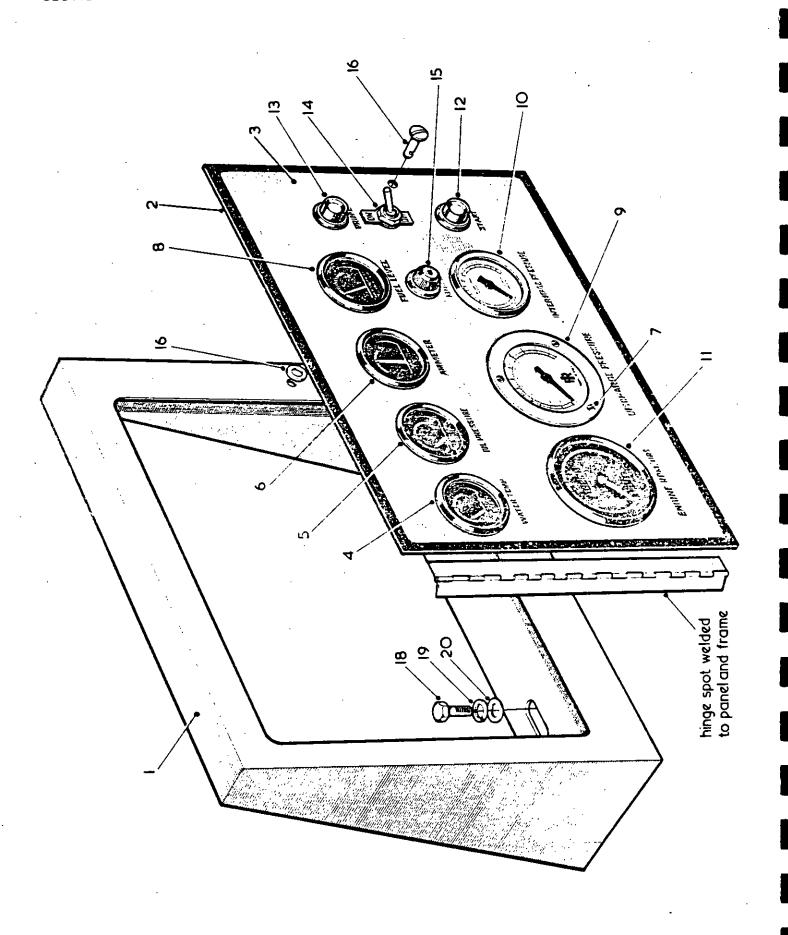
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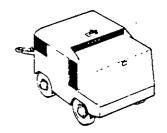
| | | | |
|-------------|--|------------------------------|----------|
| Illus. | NAME OF PART | PART NO. | QTY. |
| No. | Parts indented after an item are included with the item. | PART NO. | ``` |
| | DA 140 FILTER COMPLETE | T2V8831 | 1 |
| 1 | Filter Body | T2V8831/ 1 | 1 |
| 2 | Mounting Bands | T2V8831/2 | 2 |
| 5 | Cup Gasket | T2V8831/5 | 1 |
| 6 | Element | T2V8831/6 | 1 |
| 7 | Gasket Washer | T2V8831/ 7 | 1 |
| lé | Wing Nut | T2V8831/8 | 1 |
| 9 | Baffle | T2V8831/ 9 | 1 |
| 10 | Cup Assembly | T2V8831/10 | 1 |
| 11 | Clamp Assembly | T2V8831/11 | 1 |
| 1 12 | Set Screw | ∄'''UNC x ¾'' | 4 |
| 1 | Washer | $\frac{1}{3}$ | 1 4 |
| 13 | Spring Washer | $\frac{1}{1}$,, | 4 |
| 14 | Hex. Nut | ∃" UNC | 1 1 |
| 15 | Filter Elbow | T2T5234 | 1 |
| 16 | Burgess Clip | 5.1/8" | 1 |
| 17 | Intake Manifold | T2K4900 | 1 |
| 18 | Jubilee Clip | 5'' | <u> </u> |
| 19 | Restriction Indicator | 20" WG | 1 |
| 20 | Space Nipple | 1/8'BSPT x 1" | . 1 |
| 21 | Set Screw | 5/16" UNC x 5/9" | 1 4 |
| 1 | Jubilee Clip | 3" Dia. | 1 |
| 23 | Rubber Hose | T2V4704-4 | 1 |
| 24 25 | Jubilee Clip | 3" Dia. | 1 |
| 26 | Jubilee Clip | 4" Dia. | 1 |
| 27 | Rubber Hose | T2V4704-3 | 1 |
| 28 | Jubilee Clip | 4" Dia. | 1 |
| 28 | Air Intake Elbow | T2K4905 | ! 1 |
| 30 | Set Screw | $3/8$ "UNC x $\frac{3}{4}$ " | 4 |
| 31 | Spring Washer | 3/8" | 1 |
| 32 | Inlet Pipe | T2T5291 | 1 |
| 1 | Jubilee Clip | 3" Dia. | 1 |
| 33 | Rubber Hose | T2V4704-4 | 1 |
| 34 | Jubilee Clip | 3" Dia. | 1 |
| 35 | Engine Intake Elbow | T2K4906 | 1 |
| 36 | Jubilee Clip | 3" Dia | 1 |
| 37 | Smith & Johnson Pipe Clam | 5½'' OD | 1 |
| * | Smith & Johnson Fipe Claim | 2W30464 | 1 |
| * | Air Inlet Hose Connection | 1 2 11 3 1 1 1 | 4 |

^{*}Not illustrated.

Always give the serial number of your compressor.



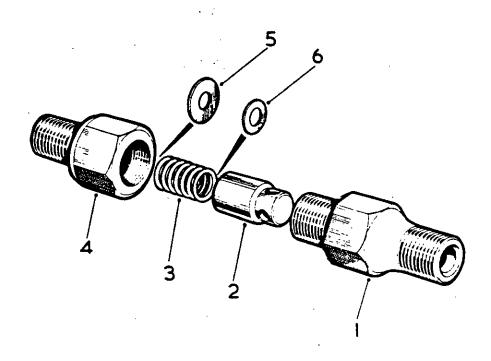
GYRO - FLO DR - 250-S INSTRUMENT PANEL



| Illus. | NAME OF PART Parts indented after an item are included with the item | PART NO. | QTY. |
|--|--|---|---------------------------------|
| 1 2 3 4 | Instrument Panel Instrument Panel Instrument Panel Door Instrument Panel Facia Water Temp. Gauge Oil Pressure Gauge | T2N2025 T2K4838 T2K4839 T2V8828 T2V8828 | 1 1 1 1 |
| 6 7 * 8 9 10 | Ammeter Chrome Countersunk Screw Nut Lockwasher Fuel Level Gauge Discharge Pressure Gauge Interstage Pressure Gauge Tacho/Hour Counter Gauge | T2AC 7967377 4BA x ½" 4BA 4BA T2V8823 3" - 200 psi 2" - 100 psi T2V8824 | 1 3 3 3 1 1 1 |
| 12 13 14 15 18 19 20 | Start/Overide Push Button Prime Push Button On/Off Lever Switch Warning Light Set Screws Spring Washer Flat Washers | T231872 T231872 T2C 2720 T2V8834 3/8" UNC x 1" 3/8" | 1 1 1 1 4 4 |

* Not illustrated.

Always give the serial number of your compressor.



| | | NAME OF PART | PART NO. | QTY. |
|---|---|--|------------|------|
| | | Parts indented after an item are included with the item. | | |
| | | OIL PUMP RELIEF VALVE ASSEMBLY | 2W43854 TP | 1 |
| | , | Oil Pump Relief Valve Body | 2W21461TP | 1 |
| | 2 | Oil Pump Relief Valve Valve | 3W21462 | 1 |
| 1 | 3 | Oil Pump Relief Valve Spring | X1091PP755 | 1 |
| 1 | 4 | Oil Pump Relief Valve Cap | 2W43853 | 1 |
| 1 | 5 | Shim if necessary (to decrease spring load) | X1026T26 | 1 |
| | 6 | Shim if necessary (to increase spring load) | X1026T48 | 1 |

Always give the serial number of your compressor.

GYRO - FLO DR - 250-S

SPARES

GYRO - FLO DR - 250-S SPARE PARTS BOXES

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| Spare Parts Box No. | TR 250 PCC 240 | Page 1. |
| Snare Parts Box No. | TR 250 PCC 242 | Page 2. |

BOX No. TR 250 PCC 239 (Minimum Domestic).

| Description Parts indented after an item are included with the item | Form Number | Qty. |
|---|---|---------------------------------|
| COMPLETE BOX OF SPARES Diaphragm Piston Ring UL-89 Regulator Diaphragm UL-88 Regulator Top Cover Diaphragm UL-88 Regulator Bottom Cover Diaphragm Oil Filler Plug "O" Ring Oil Filter Element Replacement Kit | TR250PCC239 X1440T6A 2W32706 2W37087 2W34874 X1514T214C T2V8820 | 1 2 1 1 1 2 1 |

BOX No. TR 250 PCC 240 (Average Domestic - Minimum Export)

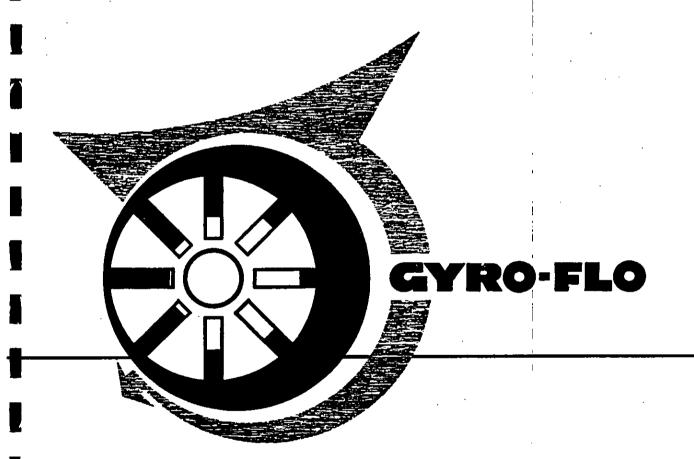
| Description Parts indented after an item are included with the item | Form Number | Qty |
|--|--|---|
| COMPLETE BOX OF SPARES Gasket - Set Diaphragm Piston Ring Oil Filler Plug "O" Ring Oil Filter Element Replacement Kit Low Pressure Rotor Vane - Set High Pressure Rotor Vane - Set Roller Bearing Rotary Shaft Seal Interstage Pressure Gauge Discharge Pressure Gauge Grab Bag (Misc, Bolts, Nuts, etc.) Wood Box | TR250PCC240 TR250PCC241 X1440T6A X1514T214C T2V8820 R250P110 R250P115 2W48538 2W26684 2" - 100 psi 3" - 200 psi T2V8944 | 1 4 2 1 1 2 1 1 1 |

Always give the serial number of your compressor. Do not order by illustration number - order by part number.

BOX No. TR 250 PCC 242 (Up to 5 Units Domestic. Up to 2 Units Export).

| Description | Form | 0- |
|---|-------------|------|
| Parts indented after an item are included with the item | Number | Qty. |
| COMPLETE BOX OF SPARES | TR250PCC242 | 1 |
| Gasket - Set | TR250PCC241 | 1 |
| Diaphragm Piston Ring | X1440T6A | 4 |
| Rotary Shaft Seal | T2W26684 | 1 |
| Compressor Coupling Drive Gear Gasket | 2W32925 | 1 |
| Roller Bearing | 2W48538 | 2 |
| L. P. Cylinder Plate - Inner | 2R26349P1 | 1 |
| L. P. Cylinder Plate - Outer | 2R26350P1 | 1 |
| L. P. Cylinder | 2F11933 | 1 |
| L. P. Rotor Vane - Set | R250P110 | 1 |
| L. P. Rotor Bearing Spacer | 2W48400 | 2 |
| H. P. Cylinder Plate - Inner | 2R26296P1 | 1 |
| H. P. Cylinder Plate - Outer | 2R26295P1 | 1 |
| H. P. Cylinder | T2F11943 | 1 |
| H. P. Rotor | 2H17999TP | 1 |
| H. P. Rotor Vane - Set | R250P115 | 1 |
| H. P. Rotor Drive Shaft | 2 R26259 | |
| H. P. Outer Bearing Snap Ring - Rear | X1318T19 | 1 |
| Oil Pump Drive Gear | 2H18081 | 1 |
| Oil Pump Gear Bushing - Inner | 2W32624 | 1 |
| Oil Pump Driven Gear - Bushed | 2W48492 | 1 |
| UL-89 Regulator Valve Bushing | 2W35030 | 2 |
| UL-89 Regulator Diaphragm Piston | 2W32707 | 1 |
| | UL88-200 | 1 |
| UL-88 Regulator Repair Kit | 2W48571 | 1 |
| | PP604 | lī |
| UL88 Range Spring - Outer | T2V4677 | 1 1 |
| UL-88 Range Spring - Inner | 2 R26443T | l ī |
| Oil Separator Screen Assembly - packed | X1514T214C | 2 |
| Oil Filler Hole Plug "O" Ring | T2V4984 | lī |
| Radiator Upper Hose | T2V7753 | ī |
| Radiator Lower Hose | T2T5276/10 | lī |
| Radiator Cap | 3''-200 psi | 1 |
| Air Discharge Pressure Gauge | 2''-100 psi | î |
| Interstage Pressure Gauge | T2EOA9030 | li |
| Fuel Tank Cap | T2V8820 | 2 |
| Oil Filter Element Replacement Kit | T2V8944 | 1 1 |
| Grab Bag(Misc. Bolt, Nuts, Fittings etc) | | lî |
| Wood Box | | |

Always give the serial number of your compressor. Do not order by illustration number - order by part number.



INSTRUCTIONS AND PARTS LIST

MODEL DR

DIESEL ENGINE PORTABLE AIR COMPRESSOR

Ingersoll-Rand.



TP. 12034

INSTRUCTIONS & PARTS LIST

GYRO-FLO

FOREWORD

In preparing this publication, every effort has been made to provide sufficient information to permit an operator to perform his duties so as to receive maximum performance and trouble free service from the compressor. All classes of equipment, regardless of how well built, require a certain amount of attention. The purpose of this publication is to acquaint an operator with the functions, operation and servicing of the various components, which were built with the very best of materials and workmanship, to obtain maximum life from the compressor.

Before starting the compressor, the instructions should be carefully read to obtain a thorough knowledge of the duties to be performed. Take pride in the compressor, keep it clean, and in good mechanical condition. For major servicing, not covered in this publication, consult your nearest Ingersoll-Rand Company Branch Office, or the distributor from whom the compressor was purchased. Correspondence with a branch office, or distributor, must always specify the serial number of the compressor as well as the model. See page 16 for location of unit serial number.

Air Cleaner

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INSTRUCTION

| Normal Operating Pressure - psi. | | 100 (7.03 kg./sq.cm) |
|-----------------------------------|---------------------------------------|----------------------|
| Actual Delivery - cfm | · · · · · · · · · · · · · · · · · · · | 250 (7.08 cu. metre) |
| Full Load Speed - rpm | | 1800 |
| Approximate No Load Speed - rpm | | 800 |
| Oil Capacity Compressor System - | Imperial Gals | 10 (45.56 litres) |
| Type of Air Filter | | DA 140 |
| Capacity Fuel Tank - Imperial Gal | s | 27 (122.8 litres) |
| Electric Starting System - volts | | 12 |
| Overall Length - feet/inches | 2-Wheel | |
| | 4-Wheel | 13' - 9'' |
| Length, Parked-feet/inches | 4-Wheel | 10' - 0'' |
| Length Less Drawbar | 2-Wheel | 9' - 0'' (275 cm) |
| Width - feet/inches | 2-Wheel | 5' - 10'' (175 cm) |
| | 4-Wheel | 5' - 10'' (175 cm) |
| Height - feet/inches - All Models | · | 6' - 6" (199 cm) |

GENERAL DESCRIPTION

The Gyro-Flo Portable Compressor consists of a two-stage rotary air compressor directly connected to and driven by a heavy duty industrial type engine. This unit assembly is mounted on a sturdy, channel section, welded steel frame.

The running gear is a two-wheel or four-wheel spring mounting, having pneumatic tyred wheels. "Less running gear" units are furnished on wooden shipping skids.

Operating accessories include: oil cooler, fuel supply tank, air receiver, oil separator system and the necessary regulating devices instruments, air cleaners, oil filters, etc.

COMPRESSOR

The compressor is two-stage, and is of the sliding vane rotary type. The first stage rotor chamber is supported by a yoke which is bolted directly to the flywheel housing of the engine. The second stage rotor chamber mounts directly in line with, and at the rear of the first stage chamber with a centre bearing housing between the two. A rear bearing housing and main oil pump casing with cover closes the rear end of the second stage rotor chamber. The centre bearing housing also has supporting arms which rest on the mainframe and serve as an additional support to the compressor.

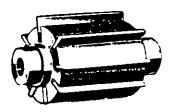
A front bearing, with rotary oil seal, is contained in the yoke. Special end plate inserts are located at each end of each rotor chamber to separate the chambers from the adjacent bearing assemblies and act as end guides for the vanes.

The first and second stage cylinder bores (or rotor chambers) are each offset from the shaft centre line. This causes each cylinder bore to be eccentric to its rotor.

The two rotor chambers have the same cylinder bore diameter, but the first or low pressure stage chamber, and its rotor, is considerably longer than the second or high pressure stage.

The first and second stage rotors are each slotted to receive sliding vanes which are sealed by the copious amount of lubricating

oil fed to the bearings and bores. They are held against the bore wall by centrifugal force when operating.









<u>Fig. 1</u> - Diagram showing compression cycle of the GYRO - FLO.

AIR FLOW

Free air is taken into the first stage chamber through large ports at an area where the vanes are well out of the rotor slots, thus filling the spaces or volumes between the vanes.

As rotation proceeds, the vanes are moved radially inward in their slots by the bore wall. This causes the volume between the vanes to decrease and compresses the air trapped in this space. As this space volume approaches zero, a second series of ports is

uncovered allowing the compressed air to pass on through cast passages to the intake of the second stage rotor chamber. Here the process is repeated, raising the air pressure from the interstage pressure to the final discharge pressure.

OIL FLOW

Relatively cool lubricating oil is admitted under pressure to the precision roller bearings and also is injected in metered amounts, directly to the rotor chambers. The oil passes through the bearings at each end of each rotor, enters the close clearances at the vane ends, and thence to the rotor chambers.

All of the oil thus introduced mixes with, and passes on with the air being compressed. This removes the heat of compression to a large degree and results in an unusually low final air discharge temperature.

The second stage discharge air passes through a connection into a combination air receiver and primary oil separator where the oil is removed from the air and collects in the storage reservoir formed by the lower portion of the combination receiver and separator shell. From there, the oil is forced through piping to an oil cooler assembly. This cooler is located at the radiator end of the portable in such a manner that the engine radiator fan serves to cool both the engine jacket water and the compressor lubricating and cooling oil.

OIL PUMP

The oil pump is located at the rear end of the second stage rotor chamber. The pump is of the positive gear type, with the driven gear of the pump mounted directly on, and driven by a splined rotor shaft extension.

The oil pump receives its supply from the oil cooler through piping and an oil filter. It discharges the oil through internal passages directly to the rotor bearing and chambers.

An adjustable spring-loaded by-pass valve, mounted on the oil separator and connected to the oil pump, prevents any possibility of damage due to over pressure.

When the compressor is operating at low capacity, some of the oil may by-pass the cooler through a thermostatically controlled by-pass valve. This arrangement helps to

maintain a higher average compressor oil temperature thereby reducing the possibility of water vapour condensation in the system. This valve located in the oil piping, by-passes varying amounts of oil, depending on the temperature, until the oil being circulated reaches a temperature of 185°F. (85°C.). At this point, the valve closes the by-pass completely and all of the oil is circulated through the cooler.

GENERAL - AIR END

The first stage rotor chamber intake is equipped with a UL-89 Volumetric Regulator (Fig. 5). The incoming air passes through an efficient two stage dry type air cleaner before entering the regulator and the compressor.

The first stage rotor shaft extends forward to carry an internal-external gear toothed coupling, the outer ring of which is bolted directly to the engine flywheel. This coupling assembly is lubricated and sealed against the entrance of dirt or moisture and provides a certain amount of necessary flexibility.

The second stage rotor is driven through a full floating splined shaft connection from the first stage rotor. In addition, the second stage rotor splined grooves serve to drive the oil pump splined shaft.

Each rotor rides in its own set of caged roller bearings, while the oil pump shaft operates in self-oiled sleeve bushings.

Regulation is 100% from full capacity to zero capacity, and is accomplished by a combination of engine (and compressor) speed reduction together with proportional compressor volumetric regulation.

It is recommended that vane tips be inspected at 2,000 hours or after one year. Vanes should be replaced after 4,000 hours' service or every two years as a matter of routine preventive maintenance. When vanes are replaced, make sure that driving or trailing tips of rotor slots are not razor sharp. They should be slightly rounded. This can be easily done by hand using a fine-grained stone to produce a radius of about 1/64". (.397 mm.).

To make an inspection of the high and low pressure vanes with a minimum removal of parts the following procedure is recommended.

- 1. To inspect low pressure vanes remove UL-89 regulator complete and then "inch" engine over with the starter and inspect vanes through the exposed air intake in cylinder.
- 2. To inspect high pressure vanes remove sheet metal access cover on the back of compressor housing. Remove cap screws that fasten the high pressure outer bearing housing to the cylinder. The housing with oil pump, bearing and outer race, and end plate can now be slipped off and vanes can be slipped out of rotor slots.

INSTRUMENT PANEL

The instruments are located on one panel. Instruments include, discharge air pressure gauge, engine water temperature gauge, engine oil pressure gauge, tacho-hour counter, ammeter, ignition warning light, on-off switch, pushbutton start, pushbutton primer, fuel level gauge and cold start pushbutton (when fitted).

ELECTRIC STARTING

Electric starting is standard and includes starter motor, alternator, relay and battery with necessary wiring and terminals.

AIR - RECEIVER - OIL SEPARATOR

The air receiver - oil separator system consists of a combination primary oil separator and air receiver tank plus a secondary separator tank. Both tanks are made to B.S.S. for welded steel pressure vessels and are designed for 150 psi (10.54 kg/sq. cm.) working pressure.

Removing the cover on the end of the primary separator provides a very large opening through which thorough cleaning and inspection can be performed. An internal strainer in the bottom of the primary

separator tank provides a means of trapping any solids which might be carried by the oil flowthrough the separator outlet pipe toward the oil cooler. This strainer fitting is removable for cleaning. The delivery end of the secondary separator is arranged to provide connections for the minimum pressure valve, service valves, relief valve also the required safety valve and automatic blowdown valve. It is continuously drained of any oil accumulation by a connection at the bottom of the chamber to the inlet of the high pressure cylinder.

FUEL TANK

The fuel tank is mounted longitudinally with the compressor frame. The capacity is 27 Imperial gallons (122.8 litres). The entrance to the outlet tube connection is raised above the tank floor to provide a water and sediment settling space or trap. The low side drain plug should be removed occasionally to draw off any collection of water and sediment.

SPRING MOUNTING

The complete unit is carried on a sturdy two wheel or four-wheel mounting. The mounting has semi - eliptic springs. Pneumatic-tyred disc - type wheels are standard. A drawbar is provided as standard equipment which can be put in parking position on 4 wheel units. A drop leg is provided as standard on the two-wheel mounting only.

LESS RUNNING GEAR

"Less running gear"units are furnished on temporary wooden shipping skids. If customer mounts a "less running gear" unit on other equipment, it is his responsibility to see that the frame is not stressed or warped because of the mounting arrangement. The use of special rubber mounts may be desirable or necessary.

OPERATION

BEFORE STARTING

- 1. Move the portable compressor to level ground and in as clean a location as possible.
- Check the oil level in both the compressor primary oil separator reservoir and the engine crankcase. Add oil if required. (See special instructions under lubrication Page 8).
- Check air cleaner.

- 4. Check that there is sufficient fuel in tank.
- 5. Check engine radiator to see that it is correctly filled with clean, soft water. Use permanent type anti-freeze solution if operating in below freezing temperatures. The use of a commercial rust inhibitor is recommended to prevent internal corrosion of the cooling system.
- 6. With no air pressure in the air receiver and oil separator system, leave service valves and hand relief valve open.

STARTING

The diesel engine starts directly on fuel oil.

 Depress Ignition Toggle Switch to 'ON' position, press starter pushbutton until engine fires, then close service valves.

(Normally the unit can be started with the hand relief valve closed, but in extreme cold weather, it may be advisable to leave the hand relief valve partially open until the engine starts and then close it as soon as possible.)

Engine cold starting device Ford Units — In conditions of extreme cold, push in the excess fuel device located on the fuel injection pump, set the decompressor control in the "up" position, operate the starter motor for a few seconds to break the sealing effect of the cold oil, pull the decompressor lever down to restore compression and operate the starter as for normal starting.

In extreme cold conditions, on Perkins Engines operate the heater glow plug system by depressing push button on Instrument Panel.

The closing of service valves and relief valve causes compressor unloading and results in the minimum load on the engine while it is warming up. It also applies full pressure to the lubricating oil in the storage reservoir. This causes the oil to flow to the oil cooler or through the by-pass valve direct to the oil pump inlet to establish full lubricating pressure in the compressor immediately.

2. When fully warmed up, connect air load to the compressor and open the service valve allowing air demand to regulate output as required.

STOPPING

Close the air service and relief valves, causing compressor to unload and engine to operate at minimum reduced speed until the engine has cooled down sufficiently to prevent the radiator from boiling over, then shut down

Shut down by returning toggle switch to off position whereupon air pressure will automatically be relieved from the air receiver-oil separator system, by means of the 'Automatic Blowdown Valve' as the compressor stops.

As this occurs the manual relief valve should be opened to further relieve pressure.

Unit should never stand idle with system pressurised.

MINIMUM PRESSURE SERVICE VALVE

This is an automatic valve which maintains a minimum pressure of about 70 psi in the receiver-separator system so as to ensure oil circulation.

Shut-off discharge is accomplished by means of cocks located in panel at towed end of machine.

This valve cannot be used as a check valve in any operation where a check valve is required to prevent backflow of line pressure, such as in parallel operation, etc. (Refer to Page 8).

AUTOMATIC BLOWDOWN VALVE

This is an automatic valve to release air from the system when engine is stopped.

MAINTENANCE

COOLING SYSTEMS

ENGINE RADIATOR AND COMPRESSOR OIL COOLER

Keep all core sections of both the radiator and oil cooler clean by using a cleaning solution. Higher efficiency and lower temperatures will result when the external grease and grime and the internal oxidation of the lubricating oil is removed thoroughly. Use only clean, soft water for filling the radiator. Where the water is known to be hard or alkaline, treat it with a softening compound to prevent formation of scale and rust both in the engine jacket spaces and in the radiator itself.

Freezing of water in the cooling system may result in serious damage. If the unit is to stand idle in freezing temperatures, the only safe plan is to drain the system, unless an anti-freeze solution is used.

Before adding any anti-freeze solution, tighten up all joints in the cooling system and make sure there are no leaks.

Ethylene-glycol solutions are recommended since they are not lost by evaporation and only water need be added to maintain a full system. If any of the solution is lost by leakage, foaming, etc., it must be replaced by new anti-freeze solution.

The entire cooling system must be thoroughly cleaned and flushed before using an ethylene-glycol solution. All hose connections and joints must be kept tight, as any leakage of air into the system may cause acid formation and corrosion.

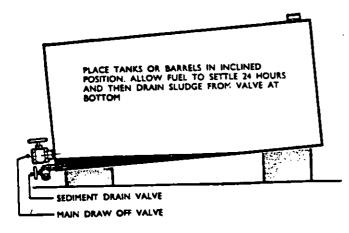
FUEL SYSTEM AND FUEL STORAGE

A cylindrical fuel tank is mounted on the compressor frame. Pilferage is prevented by the lockable housing side covers.

The outlet connection of the tank is so arranged that fuel is taken from a point somewhat above the floor of the tank thus providing a settling space where water and sediment can collect without being drawn into the fuel system. Bottom drain openings are provided for removal of the collected water and sediment. Drain the settlings after each filling of the tank.

Clean fuel is vitally important and every precaution should be taken to ensure the fuel being clean when it is poured or pumped into the supply tanks.

Fuel oils from steel drums and commerical containers often pick up scale, water, and sediment. To properly store fuel oil, use black iron (not galvanised) storage tanks or drums, tightly sealed against water, dust, and dirt. A satisfactory way of installing tanks is shown in the accompanying illustration, Fig. 2.



<u>Fig.2</u>, - Fuel Oil Storage Tank. MARCH'72

Drawsettlings from the well at the bottom of the storage tank at frequent intervals and always before drawing fuel for use.

When transferring fuel from the storage tank to the portable supply tanks by other methods than pump and hose, use a funnel which is kept for this purpose only. Wipe the funnel clean each time before using. Do not allow the engine fuel supply tanks to become empty because the genuine fuel pump may loose its prime and be damaged.

PROTECTIVE DEVICES

The compressor is protected against overheating by a thermal switch located in the compressor discharge connection. The switch is of the "normally closed" type and should the temperature of the discharge air rise above 220°F. (104.4°C) to 230°F. (110.0°C), this switch opens to cause immediate shutdown of the engine by de-energizing a solenoid-operated fuel cut-off valve.

GENERAL

Should the engine be shut down during operation by any of the protective devices check immediately to determine where the trouble lies and correct it before attempting further operation.

Read the engine instruction book to become familiar with the operation of the starting equipment and the various protective devices which are furnished to prevent damage to the engine due to lack of proper care and attention.

SAFETY VALVES

A safety valve is connected to the secondary oil separator to protect the compressor against any serious over pressure. It should be operated by hand monthly to make sure it is in proper operating condition. Should this safety-valve "blow" at any time due to excessive discharge pressure, check the regulating devices for improper settings.

AIR CLEANER

Both engine and compressor intake are protected against entrance of dust and foreign objects by efficient two-stage dry type air cleaner.

The cleaner should be serviced as often as required in accordance with operating conditions: daily, if in a very dusty location.

GYRO - FLO MAINTENANCE

The cleaner is fitted with a restriction indicator to give visual indication of the necessity for filter cleaning.

AIR RECEIVER AND OIL SEPARATOR SYSTEM

The inside of the primary oil separator may be cleaned by removing the end cover.

An oil separator element is mounted within the secondary separator shell which is mounted on the rear housing of the unit.

OIL SEPARATOR ELEMENT

The secondary oil separator element consists of a series of chambers each packed with an oil diverting medium through which the compressor air passes on its way to the final discharge connection. (Most of the oil is thrown out of the air mechanically in the primary oil separator, before the air enters the secondary oil separator).

The secondary separator element (as shown in Fig. 3) is removable as a unit for replacement when required. This is indicated by more oil consumption by the compressor than usual. In normal operation servicing of the secondary separator element should not be required for two or three years.

The diverting medium is a very special material, purchased on a strict specification and installed in the screen element to a definite density. Servicing, therefore, is by replacement with a complete factory-packed screen assembly as shown.

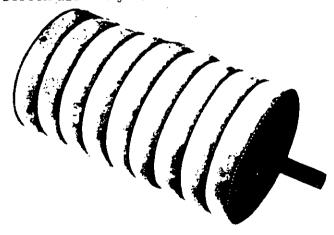


Fig. 3 - Secondary Oil Separator Element, Factory Packed, and replaceable.

CHASSIS (GENERAL)

Both mountings are equipped with grease fittings at wear points for use with a normal

grease gun. The wheels should be removed and the bearings cleaned and repacked once a year. The free ends of the springs may be lubricated occasionally with heavy oil or light grease.

MAXIMUM ALLOWABLE TOWING SPEED

| 4 wheel units | 20 mph | 32.19 kph |
|---------------|--------|-----------|
| 2 wheel units | 35 mph | 56.35 kph |

ROTARY COMPRESSORS ON PUMP - UP JOBS

The secondary oil separator on the rotary portable air compressor is designed to function correctly at normal operating pressures.

The high air velocities (zero pressure or low pressure) will carry considerable quantities of oil from the secondary oil separator over into the discharge line, therefore it is essential to hold a minimum pressure of 70 psi. (4.92 kg./sq.cm.) in the receiver-separator system until such time as the discharge line pressure has increased to that amount. This is accomplished by a minimum pressure valve which automatically maintains a minimum pressure of 70 psi (4.92 kg./sq.cm).

Attempting to operate at discharge pressures below 70 psi will not increase the actual delivery.

LIMITS OF OUT OF LEVEL OPERATION

| MODEL | Standard Engine Standard Oil Pan | | |
|-----------------------|-------------------------------------|--|--|
| · | Lengthwise Sidewise | | |
| DR 250 S DR 250 SL | 15° 10° 7, | | |

The engine, and not the compressor, is the limiting factor in all cases. When the unit is to be operated out of level, it is more important to keep engine crankcase oil level near the high mark than when operating on level ground. The out-of-level degrees are given on the assumption that the engine crankcase is filled to the high level mark (with the unit level) and the compressor oil gauge shows nearly full. Do not over-fill either the compressor lubricating system or the engine crankcase.

COMPRESSOR COUPLING

The complete coupling assembly is sealed to prevent the entrance of dirt and to retain the perminent lubrication installed on the original assembly.

If the engine and compressor are separated during a major overhaul, the coupling gear teeth should be repacked with grease before reassembling.

Use an automotive type front wheel bearing grease available at any service station. Use only enough to fill the gear teeth as an excess of grease in the chamber will expand with heat and resulting end thrust may cause compressor failure.

SPECIAL WARNING FOR PARALLEL OPERATION

Do not connect a Gyro-Flo Portable Air compressor into a common header with any other units of any description, or any other source of compressed air, without placing a check valve between the header and each Gyro-Flo Compressor.

Backflow of line pressure and possible contamination of the receiver-separator and lubricating system with oil, water, or scale must be prevented.

SPECIAL PRECAUTIONS FOR MOISTURE DRAINAGE

In installation where the discharge piping may slope upwards from the service outlet of the air receiver-oil separator system, provisions should be made to install a drain leg at the service outlet, to collect any drainback of condensate from the discharge line.

LUBRICATION (COMPRESSOR)

Compressor lubrication and cooling are both accomplished by the compressor lubricating oil. The compressor is cooled by oil injection directly into the rotor chambers. The compressor lubricating system consists of an oil pump, a storage reservoir, an oil cooler, and the necessary piping together with an oil filter.

LUBRICATION

The use of the proper lubricating oils and grease is imperative in maintaining efficiency as well as keeping repairs to a minimum.

Normally these units are furnished with an initial supply of compressor lubricating and cooling oil sufficient to allow operation of the

The oil cooler is a radiator-like heat transfer core section placed immediately in front of engine radiator core and having approximately the same frontal area. It is so arranged internally that the oil passes through the cooling air stream on its way through the core. Oil is piped from the storage space in the primary oil-separator to the inlet opening of the cooler core. On leaving the cooler it flows through the piping and the oil filter to the oil pump intake.

COMPRESSOR OIL FILTER

The oil filter is located as on fig. 4 in a high loop of the oil piping so that the filter body-element may be removed for servicing without having to drain any other part of the system.

Elements should be inspected or replaced after:- 50 Hours operation and 150 Hours operation, initially, and at every 500 hours further operation. While filter body is removed inspect for lacquer deposit. If a lacquer deposit is noted change compressor oil completely to avoid vane sticking in the compressor.

OIL STORAGE RESERVOIR IN PRIMARY SEPARATOR

The oil storage reservoir is in the lower portion of the primary separator shell, where most of the oil collects as it is thrown out of the compressed air before it enters the secondary oil separator. The level of the oil in this storage reservoir is indicated by an oil level dial gauge, visible from the rear of the unit. This should indicate at least between "half and full" when the unit is shut down and on fairly level ground. The storage reservoir is equipped with a special filler plug and drain plugs.

For complete draining of the reservoir and piping, use the large drain plug in the pipe fitting under reservoir. Also remove drain plug under oil cooler and discharge receiver.

Do not attempt to remove the filler plug without first releasing all pressure from the receiver-separator system by opening the hand relief valve.

unitfor approximately 1000 hours; however, if a unit has been completely drained of all compressor lubricating and cooling oil, the oil storage reservoir in the receiver-separator must be refilled with a new oil before operating the unit.

If the unit has been operated for 1000

PAGE 10. SECTION 1

If any varnish or lacquer deposits are found in the filter, this indicates that the oil is deteriorating and it should be changed immediately.

LUBRICATION

Lubrication of the engine is fully covered in the engine instruction book.

ONCE A DAY

Or every 8 Hours of Operation.

- 1. Maintain an oil level between half and full on the oil level indicator gauge. Checkthis each morning before starting.
- 2. Air Cleaner. Clean out dirt, every eight hours if compressor is operating in an extremely dusty location.

ONCE A WEEK

Or every 50 Hours of Operation.

- 2. Air Cleaner. If unit is operating in a reasonably clean atmosphere, its cleaning need only be performed once each week instead of every day.
- 3. The Regulator arm and linkage should receive a few drops of oil every 50 hours. Use engine crankcase oil.
- 4. Engine Crankcase Oil Filler Hole. See Engine Instruction Book.
- 5. Engine Oil Level Gauge. Check the oil level and refill if necessary. See Engine Instruction Book.
- 6. Generator. Oil the generator sparingly using engine crankcase oil.

TWICE A MONTH

Or every 100 Hours of Operation.

- 7. Compressor Lubricating Oil Filter. Remove shell, and service as per instruction on plate.
- 8. Engine Oil Filter Clean and renew element. See Engine Instruction Book.

EVERY THREE MONTHS

Or every 500 Hours of Operation.

10. Running Gear Spring Slip End. Apply grease with brush.

GYRO - FLO LUBRICATION

- 11. 12. Compressor Lubrication Oil.
 Change oil completely every 500 hours of operation, or more often if lacquer formation is found. To drain system remove plug, never remove filler plug when oil separator is under pressure.
 Do not remove drain plug except when it is necessary to completely change the oil.
- 13. Remove oil line screen assembly from scavenger line in secondary separator and clean.
- 14. Clean H.P. cylinder inlet orifice. Can be reached when scavenger line is removed.
- 15. Use grease gun to lubricate track rod ends, king pins and drawbar pintel, and parking mechanism.
- 16. Use oil can on hand parking brake linkage, and overrun brake.

TWICE A YEAR

or every 1250 hours of operation.

17. Wheel bearings. Remove wheels, replace any worn parts and repack not over halffull with wheel bearing grease.

OTHER SERVICE REQUIREMENTS

- 18. Radiator.
 Drain water in freezing weather if not protected with anti-freeze.
- 19. Engine Cylinder Block. Drain water in freezing weather if not protected by anti-freeze.
- 20. Tighten all bolts and nuts periodically, especially wheel nuts (not illustrated).
- 21. Compressor and engine air inlet pre-cleaner. Keep screens free of leaves etc. at all times. To remove dust, wash screen in fuel or solvent as required.

type automatic transmission fluid.

hours (or when the oil level gauge indicates low when the unit is shut down and is standing approximately level) it should be completely drained of the compressor lubricating and cooling oil. If the unit has been operated under adverse conditions, or under long shutdown periods, an earlier change period may be necessary as oil deteriorates with time as well as with operating conditions. Complete replacement of the old compressor oil with clean new oil every 500 to 1000 hours, depending upon operating conditions, is not only desirable, but is good insurance against the accumulation of dirt, sludge, or oxidized oil products in the compressor lubricating and cooling oil system.

Completely drain the oil storage reservoir in the receiver-separator and the lubricating and cooling system piping. After the unit has been completely drained of all old oil, replace the drain plugs, making sure they are tight. If the oil is drained immediately after the unit has been run for some time, most of the sediment will be in suspension, and therefore, will drain more readily.

WARNING

Do not, under any circumstances, remove any drain plugs, or the oil filler plug from the compressor lubricating and cooling oil system without first making sure the air receiver system has been completely relieved of all air pressure.

Under normal operating conditions, use

Conditions of low ambient temperature -10° F to 40° F (-23.3°C to -40.0°C), and/q heavy duty cycle in high temperatures, above 85°F (29.4°C), require DEXRON type automatic transmission fluid

PAGE

Descriptions for the previously mentioned oils are as follows:

H.D. Detergent Type Motor Oil

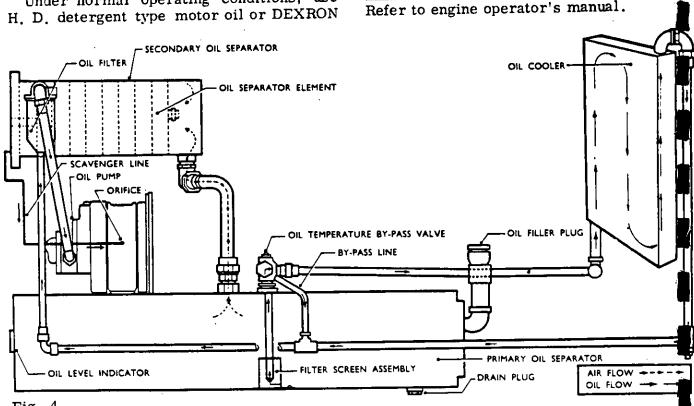
An oil complying with all requirements, Specification MIL-L-2104B, Grade SAE 10V DEXRON Type Automatic Transmission Fluid.

An automatic transmission fluid complying with all the requirements of the General Motors DEXRON Specification. The must have been given a DEXRON approval qualification number. The oil must also have a maximum pour point of -45 F (-42.8 and a minimum flash point of 390°F(198.8°C)

CAUTION

Some oil mixtures are incompatible, varnishe result in the formation of shellacs, or lacquers which may be insoluble. Such deposits can cause serious trouble including clogging of the filter. Whe possible, try to avoid mixing oils of the same type but different brands. A brand change is best made at the time of a complete oil chang

ENGINE LUBRICATING OIL



REGULATION

100% regulation is provided for by a proportional speed reduction from full capacity down to approximately 60% capacity, and a combination of further speed reduction with volumetric regulation of the compressor for capacities from 60% down to zero capacity.

The total effect is accomplished by the UL-88 "Air Glide" Speed and Pressure Regulator in conjunction with the UL-89 Volumetric Regulator and a pressure-reducing valve.

UL-88 "AIR GLIDE SPEED AND PRESSURE REGULATOR" (Fig. 5)

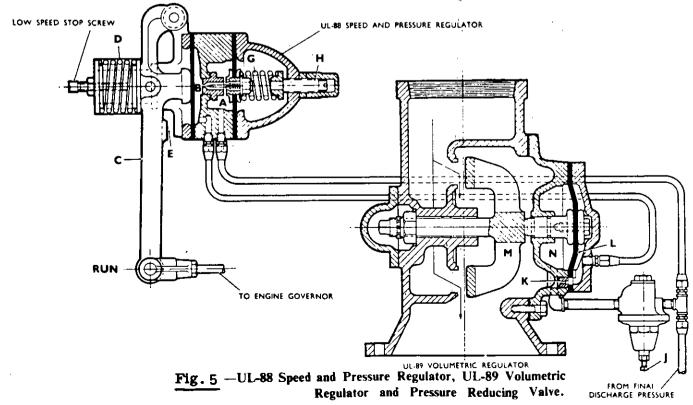
The UL-88 Speed and Pressure Regulator is an air pressure operated device consisting of a spring-loaded diaphragm on one side of a central body with an operating diaphragm on the opposite side of the same body. The central body forms two chambers "A" and "B", with a needle valve orifice located to pass air from one chamber to the other.

Chamber "A" is directly connected through tubing to the delivery end of the secondary oil separator and thus is subject to final discharge pressure at all times. Chamber "B" is connected through tubing to the operating diaphragm chamber "L" (Fig. 5)

of the UL-89 Volumetric Regulator, where a small orifice "K" is provided to bleed off a portion of the regulating air to give range control to the system.

The spring-loaded diaphragm of chamber "A" controls the positioning of the orifice needle, thus controlling the amount of pressure passing from chamber "A" to chamber "B". A spring-loaded lever "C" (Fig. 5) is so arranged against the chamber "B" diaphragm that movement of this diaphragm is multiplied, and conveyed by linkage, to the engine governing system.

The pressure in chamber "B" will always be less than in chamber "A" because of the throttling effect of the needle valve orifice and the fact that, when less than full capacity is being used and the discharge pressure is above the set pressure, chamber "B" pressure is then constantly bleeding off through the small vent "K" in the UL 89 Volumetric Regulator. Thus, when final discharge pressure (and chamber "A" pressure) is sufficient to cause the diaphragm to raise the needle valve off its seat, chamber "B" pressure will gradually raise and overcome tension of spring "D" and move lever "C" to cause speed reduction of the engine and compressor.



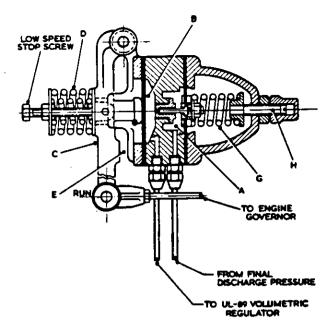


Fig. 6 - UL-88 Speed and Pressure Regulator

Since spring "D" is designed to be stronger than the engine governor spring, lever "C" will be held against the stop "E" as long as there is insufficient pressure in chamber "B" to overcome the difference in balance between spring "D" and the engine governor spring. Therefore, the engine will operate at full rated speed as long as the pressure in chamber "A" is insufficient to raise the needle valve.

The tension of spring "G" on the needle valve diaphragm is so adjusted by screw "H" that no lever movement occurs until final discharge pressure has reached 100 psi (7.03 kg./sq. cm.) (or whatever set pressure between 90 psi (6.33 kg./sq. cm.) and 110 psi (7.73 kg./sq. cm.) is desired in accordance with the tools being operated). Do not attempt to adjust below 90 psi (6.33 kg./sq. cm.) or above 100 psi (7.73 kg./sq. cm.).

If the air demand is less than the full capacity of the compressor, causing the final and chamber discharge pressure above 100 pressure to rise (7.03 kg./sq. cm.), then movement of the needle valve will permit sufficient air to pass to chamber "B" to overcome the bleed loss. This will build up enough pressure to move lever "C" in an infinitely variable manner from the full speed just sufficient to meet the reduced air demand. This speed and capacity

change, from 100% down to 60% capacity, occurs within an approximate pressure increase of six pounds, from 100 psi (7.03 kg./sq. cm.) to 106 psi (7.45 kg./sq. cm) during which the speed will drop from full speed (1,800 RPM) down to approximately 1,100 RPM.

On further reduction of air demand, the final discharge pressure will rise above 106 psi, lifting the chamber "A" needle valve still more and further increasing the pressure in chamber "B" whereupon two controlling functions occur simultaneously.

- 1. Since movement of lever "C" continues with further increase of pressure in chamber "B", there will be additional speed reduction, which, carried to its full limit will reduce the speed proportionately from 1,100 RPM approximately down to 800 RPM. The low speed limit is adjusted by the low speed stop screw on the UL-88 Regulator. It limits the movement of the governor lever or the regulator lever in this direction.
- 2. At the same time, the increase in chamber "B" pressure, which is also effective on the operating diaphragm (Fig. 5) of the UL-89 Volumetric Regulator, is now sufficient to start closing the intake regulator valve "M".

Here again the closing of the valve is in an infinitely variable manner and the resulting capacity of the unit is progressively reduced.

The combined effect of functions (1) and (2) is such that the capacity of the unit is reduced from 60% capacity to zero capacity while the final discharge pressure is rising from 106 psi to 110 psi.

Complete regulation, therefore, has occurred within a pressure range of approximately 10 psi (.703 kg./sq. cm.) and in an infinitely variable or stepless manner. (See Speed and Volumetric Regulation Diagrams, Figs. 8 and 9.

UL-89 VOLUMETRIC REGULATOR (Fig. 5)

Balancing control of the diaphragm is obtained by holding a fixed pressure in chamber "N". This is accomplished by use of an air pressure reducing valve "J" connected to the final discharge pressure at the oil separator

This valve is adjusted to maintain a pressure in chamber "N" with sufficient tension to prevent movement of the regulator diaphragm, and the valve, until the pressure in chambers "B" and "L" has increased to a predetermined value. This allows compressor volumetric regulation to start at approximately 60%. From there on it will become progressively more effective as the air demand decreases and the pressure in chamber "L" increases above the balancing point.

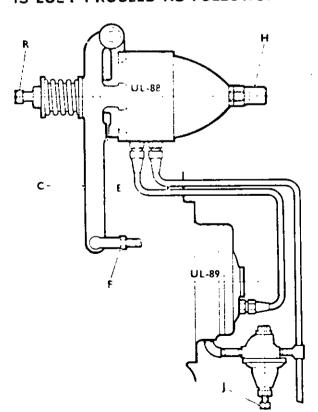
The UL-89 Volumetric Regulator consists of an intake housing equipped with a port and a diaphragm operated valve "M". The diaphragm chamber "L" receives its operating pressure from the UL-88 Speed and Pressure Regulator as explained before.

ADJUSTMENTS FOR SPEED AND PRESSURE MAXIMUM RATED SPEED (Fig. 7)

With final pressure held at 100 psi (7.03 kg./sq. cm.) and governor link rod

ADJUSTING INSTRUCTIONS UL-88 AIR-GLIDE REGULATOR

NORMALLY REGULATION REQUIRES NO SERVICING, BUT IF PROPER ADJUSTMENT IS LOST PROCEED AS FOLLOWS:-



FIRST—With discharge pressure held at 100 lbs., adjust screw "H" so that lever "C" remains against stop "f"

SECOND—Adjust length of link rod at "F" to he is engine at 1,800 RPM at 100 psi (7.03 kg./84 cm) pressure and lock adjustment "F".

THIRD—Readjust screw "H" so that lever "C" is just starting to leave stop "E". Lock adjustment "H"

FOURTH—Raise discharge pressure slowly and when engine RPM has dropped to approximately 1.100 RPM, turn adjusting screw "J" "in" and note the highest interstage pressure obtainable, then unscrew adjustment "J" until interstage pressure starts to fall. Lock adjustment "J".

FIFTH—Close service valves completely and adjust "LOW SPEED" Stop Screw to hold 800 RPM minimum speed. (Low Speed Stop Screw on UL-88 at R.) (See instruction book for possible variation of setting "H" for other operating pressure ranges to suit certain tools or work.)

Fig 7. - UL88 Air Glide Regulator Instruction Plate.

attached to UL-88 lever arm, adjust screw "H" so that lever "C" remains firmly against stop "E". Then adjust the length of link rod. "F" to maintain full rated speed of 1,800 RPM.

MINIMUM LOW SPEED

Close service valve causing final pressure to increase and complete unloading to occur (zero delivery). Then adjust low speed stop on the UL-88 Regulator to hold engine at 800 RPM.

START OF SPEED REGULATION

Holdfinal pressure at 100 psi and readjust screw "H" so that lever "C" is just leaving stop "E". (Speed starts to fall off if pressure is raised above 100 psi.).

CHANGING PRESSURE RANGE

By simple readjustment of screw "H" (Fig. 7), the start of regulation can be raised or lowered from the normal 100 psi setting. This enables the operator to select an average operating pressure suitable for the tools being operated, or to compensate for pipe line loss to a certain extent where long lines must be used. Do not attempt to adjust for more than plus or minus 10% from the normal 100 p.s.i. setting.

START OF VOLUMETRIC REGULATION

Close service valve sufficiently to cause speed to reduce to approximately, 1, 100 RPM and adjust the pressure reducing valve "J" to hold the interstage pressure at its normal pressure for your altitude. This will be 25 to 30 psi at altitudes up to 2, 000 ft. Determine this by observation during the first few days of operation. Check this adjustment by closing the service valve slightly further and noting that the interstage pressure starts to fall indicating that the volumetric regulation is taking effect as well as speed reduction.

UL-89 REGULATOR VALVE TRAVEL ADJUSTMENT

Should it be necessary to dismantle the regulator for any reason, when reassembling the maximum travel of valve "M", Fig. 5 should be held to the following dimensions:-

R250 Desired travel $\frac{1}{4}$ " Tol. + 1/32" - 0"

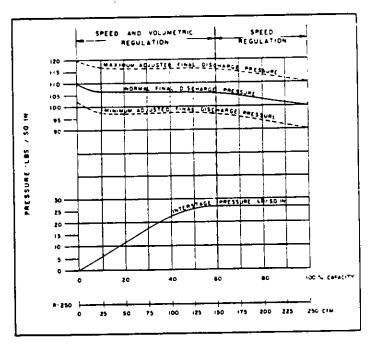


Fig. 8 - Capacity-Pressure Chart.

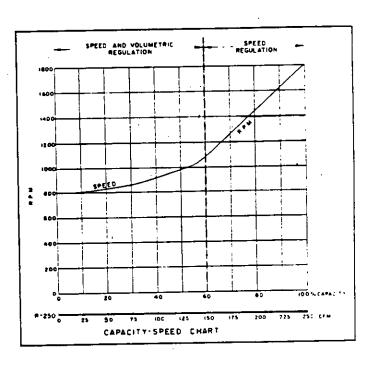


Fig. 9 - Capacity-Speed Chart.

The Gyro-Flo Compressor is manufactured with the finest quality material. Years of research and experience have been combined with quality workmanship and careful inspection to provide many years of dependable trouble-free operation.

The section, which contains an illustrated parts breakdown, has been carefully prepared as an aid in locating those parts which may be required in the maintenance of the unit. All of the compressor parts, listed in the breakdown, are manufactured with the same precision as the original equipment. For the greatest protection, always insist on Ingersoll-Rand Company parts for your compressor.

Ingersoll-Rand Company service facilities. and genuine parts are available world-wide. There are Ingersoll-Rand Company Branch authorized distributors, and conveniently located in the principle cities of the United Kingdom and throughout the free world. Each branch office, or authorized distributor, is thoroughly equipped with a supply of genuine adequate Ingersoll-Rand Company parts. For faster and better service, your parts requirements should be ordered from your nearest Ingersoll-Rand Company Branch Office or authorized distributor. A list of branch offices will be found in the rear of this Each branch office is ably publication. equipped to provide technical assistance with prompt, intelligent, and courteous service, either through correspondence or personal contact.

All parts orders pertaining to the diesel engine should be referred to your nearest Engine Manufacturer, authorized distributor. Correspondence concerning the diesel engine should always include the engine serial and model number as well as the type number of the components being ordered.

One complete set of instruction books and parts lists covering both the compressor and engine is shipped with each compressor. Additional copies of the compressor literature may be obtained from your nearest Ingersoll-Rand Company Branch Office or authorized distributor. For additional copies of the engine literature, consult your nearest Engine Manufacturer, authorized distributor.

INTRODUCTION

The illustrated parts breakdown illustrates, lists and describes the various assemblies, sub-assemblies and detail parts which make up the Gyro-Flo Air Compressor. Each group of parts is accompanied by an illustration which shows each individual part as clearly as possible. Reference numbers only are used on each illustration. These numbers correspond to those in the illustration number column in the list of parts which follows each illustration.

Each illustration is followed immediately by a listing of the component parts. These component parts are listed in numerical order according to the number shown in the illustration.

A special feature of this parts listing is a system of identifying those parts which are included with an assembly or with other parts. The included part, or parts, is denoted by being indented from the previous item. When a part is ordered that has an indented item, or items, following the parts, the indented items are always included with that part. Indented items may also be ordered individually.

There are a number of items in the parts listing that are located on the rear or front of the unit, or that are identified as being either right hand or left hand parts. These parts are modified with the necessary descriptive information to properly identify them. In referring to the rear, the front or to either side of the unit, always consider the receiver-separator as the rear of the unit. Standing at the rear of the unit facing the receiver-separator, will determine the right and left sides.

The right hand columns show both the part number, and the quantity of each item. The quantity given is the total quantity required per assembly or per group of parts.

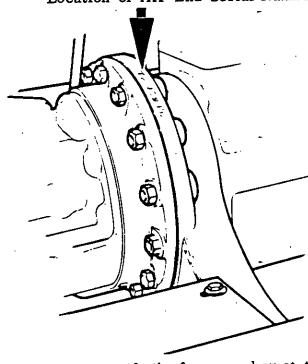
HOW TO ORDER

The satisfactory ordering of parts by a purchaser is greatly dependent upon the proper use of all available information. By supplying your nearest Ingersoll-Rand Company Branch Office, or authorized distributor, with complete information, you

will enable them to fill your orders correctly, and avoid any unnecessary delays. In order that all avoidable errors may be eliminated, the following instructions are offered as a guide to the purchaser when ordering replacement parts.

- a. Always specify the model number of the unit as shown on the model plate attached to the housing.
- b. Always specify the serial number of the unit. This is very important. The serial number of the unit will be found stamped on the instruction plate attached to the housing. The serial number of the air end will also be found stamped in the metal on the top edge of the L.P. Inner Bearing Housing.

Location of Air End Serial Number.



- Always specify the form number of this publication.
- d. Always specify the description of the part, or parts, as well as the part number exactly as it is given in the parts listing. Do not order a part, or parts, using the illustration number.
- e. Never use such terms as "Assembly", "Complete", or "Sets", unless these terms appear specifically in the parts listing.
- f. Always specify the quantity of parts required.

In the event of parts being returned to your nearest Ingersoll-Rand Company Branch Office, or authorized distributor, for inspection or repair, it is extremely important to include the serial number of the unit from which the parts were removed. This is necessary if the branch or distributor is to take care of your order promptly.

Engine parts must be ordered from your nearest Engine Company, authorized distributor.

SPARE PARTS

Special selections of spare parts have been prepared as insurance against prolonged shutdown periods. These selected parts, called spare parts boxes, are shown itemized in the rear of this section. The contents of each spare parts box are carefully selected so as to provide maximum protection for the unit with a minimum number of parts. Three sizes of spare parts boxes, ranging from small to extra large, are available. small spare parts box is suitable for minimum domestic use while the large is suitable for average domestic use or for minimum export The extra large spare parts box is suitable to maintain up to five domestically or up to two units in foreign countries, or in remote locations, where transportation facilities may be slow. Section 7 will give you the correct part numbers and the contents of each box in the event they were not obtained at the time the compressor was purchased.

SPARE PARTS (not illustrated)

| Part No. | Name of part |
|-----------|---|
| TR250P150 | Air End Complete (Includes: - Low Pressure Cylinder Assembly - Part Number T2R250P185. |
| | High Pressure Cylinder Assembly - Part Number T2R250P175. Lubricating Oil Pump Assembly - Part Number T2R250P225. |
| TR250P750 | Complete Set of Gaskets and "O" Rings. |

GYRO - FLO DR - 250-S

DRIVERS AND ASSOCIATED PARTS

SECTION 2. INDEX

INDEX

Ford Engine

Page 1.

Perkins Engine Page 2.

GYRO - FLO DR - 250 - S FORD ENGINE

TABULATED DATA

| Ford 2714E 6 Cylinder Diesel Engine | T2T5276 20 pts.(11.35 litres) |
|--|----------------------------------|
| Water Capacity Engine Cooling System - Imperial Gals | 6 (27,25 litres) |
| Unit Weights with above Engine Weight Dry - pounds - 2 - Wheel 4 - Wheel | |
| Weight with Fuel, Oil, Water - pounds - 2 - Wheel | 5146 lbs 2296 kg. |
| 4 - Wheel | 5416 lbs 2321 kg. |

| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|---------------|--|--------------------|------|
| | | | |
| 1 1 | LH Rear Mounting Bracket | T2T5275 | 1 |
| 2 | RH Rear Mounting Bracket | T2T5224 | 1 |
| 3 | Resilient Mount | T2 WPP 209 | 2 |
| 4 | Front Mounting Bracket | T2T5225 | 2 |
| 5 | Resilient Mounts | T2WPP6038/60 | ı į |
| 6 | Setscrews | 7/16"UNC x 1" lg | 5 |
| 7 | Spring Washers | 7/16" Dia. | 5 |
| 8 | · Nuts | 3/8" UNF | 12 |
| 9 | Spring Washers | 3/8" Dia. | 12 |
| 10 | Setscrews | 3/8''UNC x 1'' lg | 5 |
| 11 | Flat Washers | 3/8" Dia. | ક |
| 12 | Nuts | 9/16" UNF | 2 |
| 13 | Spring Washers | 9/16" Dia. | 2 |
| 14 | Exhaust Pipe | T2V8846 | ì |
| 15 | Exhaust Pipe Flange 508F5269B | T2V5847 | 1 |
| 16 | Silencer | T2V8848 | 1 |
| 17 | Silencer Flexible Mounts | T2 17/700 | 2 |
| 18 | Silencer Mounting Supports | T2K4911 · | 2 |
| 19 | Tailpipe | T2K4912 | 1 |
| 20 | Burgess Clamp | 2^{1}_{2} " Dia. | 1 |
| 21 | Water Temperature Gauge Adaptor | T2V7133 | 1 |
| 22 | Engine Filter Adaptor | T2T4667 | 1 |
| 23 | Engine Intake Elbow | T2K4906 | 1 |
| 24 | Burgess Clip | 3" Dia. | 1 |
| 25 | Rubber Hose | T2V4704-4 | 2 |
| 26 | Jubilee Clips | 3'' | 4 |
| 27 | Inlet Pipe | T2T5291 | 1 |

AIR END

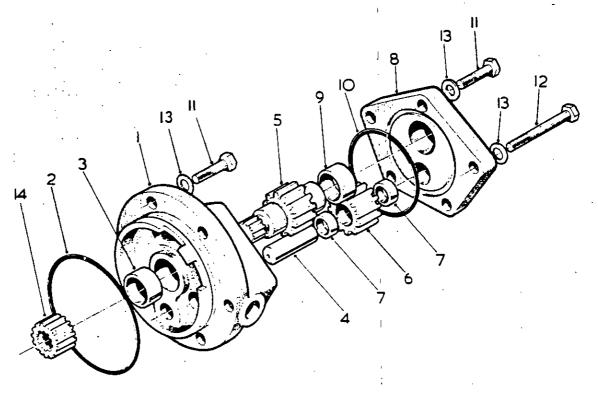
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| H.P. Cylinder | Page | 4 | & | : |
| UL 89 Volumetric Regulator. | Page | 6 | & | ٠ |
| Darts Not Illustrated | Page | 8 | | |



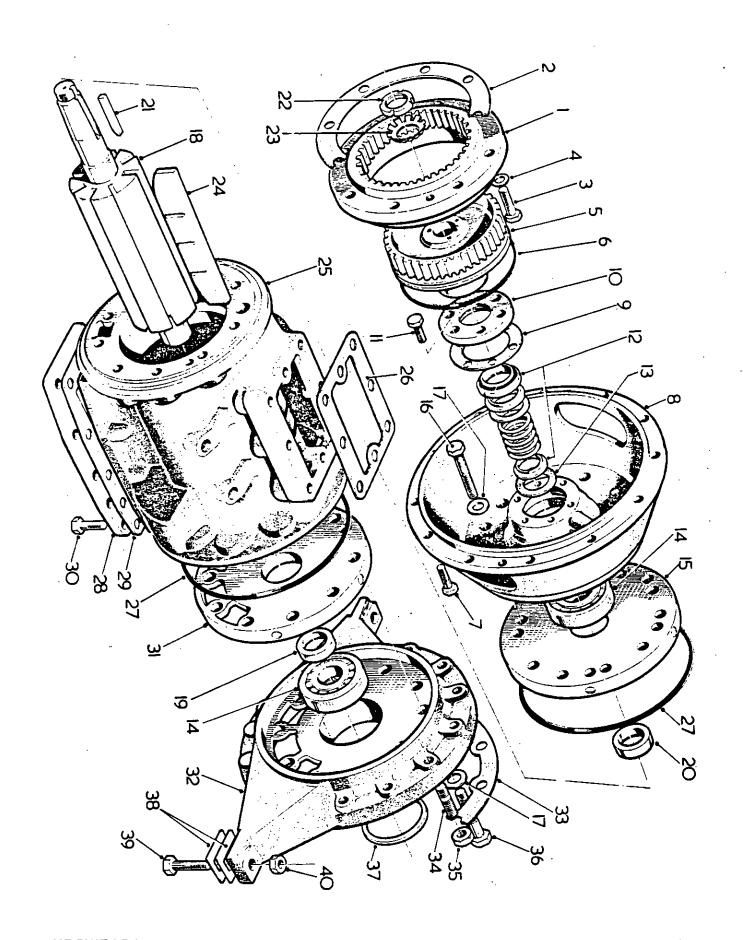




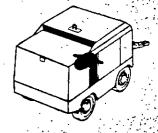
| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|---------------|---|-----------------------------------|------|
| | LUBRICATING OIL PUMP ASSEMBLY | 002 H2 06 02 | 1 |
| 1 | Lubricating Oil Pump Body | 002H18080 | 1 |
| $ar{2}$ | Oil Pump Body to Housing "O" Ring | 00X1514T250C | 1 |
| 3 | Lubricating Oil Pump Gear Bushing - Inner | 002W32624 | 1 |
| 4 | Lubricating Oil Pump Driven Gear Shaft | 002W48476 | 1 |
| 5 | Lubricating Oil Pump Drive Gear | 002H18081 | 1 |
| 6 | Lubricating Oil Pump Driven Gear | 002W48492 | 1 |
| 7 | Lubricating Oil Pump Driven Gear Bushing | 002W48475 | 1 |
| 8 | Lubricating Oil Pump Body Cover | 002R26339 | 1 |
| 9 | Lubricating Oil Pump Drive Gear Bushing - Outer. | 002W32624 | 1 |
| 10 | Lubricating Oil Pump Cover to Body "O" Ring | 00X1514T243C | 1 |
| 11 | Oil Pump to Bearing Housing Set Screw | $007/16''-14 \times 3\frac{1}{4}$ | 4 |
| 12 | Oil Pump Cover to Body Set Screw | $007/16$ '-14 x $1\frac{1}{4}$ | 3 |
| 13 | Oil Pump Steel Washer | 00X1016T32 | 7 |

Always give the serial number of your compressor.

Do not order by reference number - order by part number.



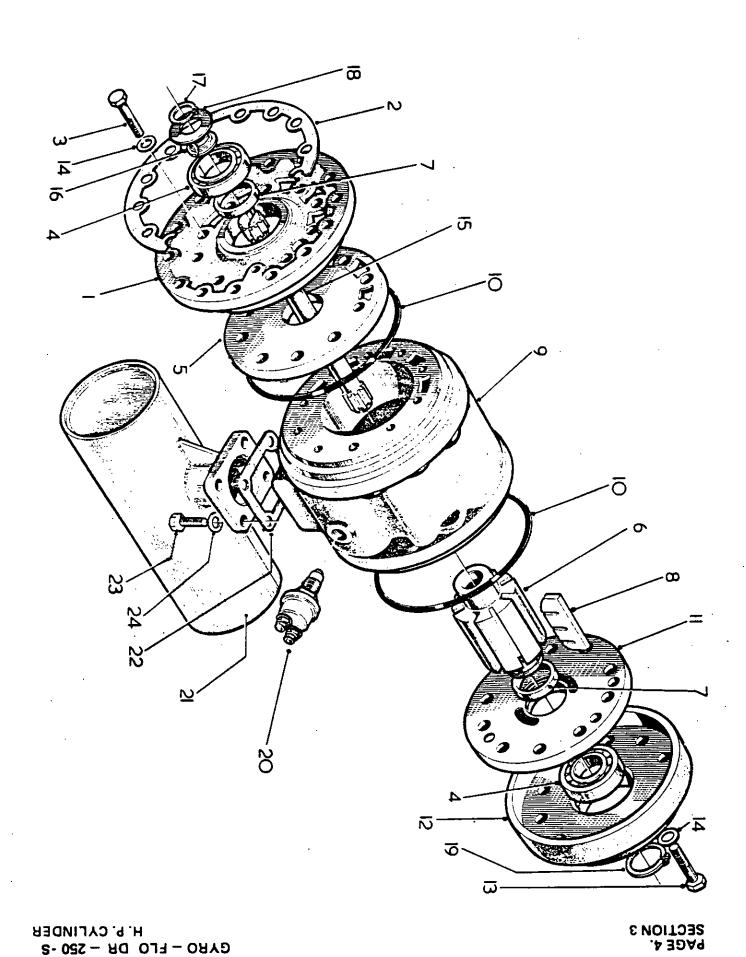
GYRO - FLO DR - 250 -5

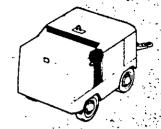


| | · | · · | |
|----------|--|--|---|
| Illus. | NAME OF PART | 10.1 | |
| No. | Parts indented after an item are included with the item. | PART NO. | QTY. |
| 110. | Tatts indented after an item are | | |
| 1 1 | Compressor Coupling Drive Gear | 002H13601 | 1 |
| 2 | Compressor Coupling Drive Gear Gasket | 00 2W32 925 | 1 200 |
| 3 | Drive Gear to Flywheel Set Screw | $3/8'' - 16 \times 1\frac{1}{2}''$ ht | 8 |
| 4 | Set Screw Lockwasher | 3/8" | 8 |
| 5 | Compressor Coupling Driven Gear | 002H13602 | 1 7 |
| 6 | Compressor Coupling Driven Gear "O" Ring. | 00X1514T448C | 1 1 |
| 7 | Compressor to Engine Set Screw | 003/8''- 16 x 1'ft | 10 |
| | · - | | |
| | L.P. CYLINDER COMPLETE | 002H13573A | |
| 8 | L. P. Outer Housing - Front | 002W26729 | 1 |
| 9 | Rotary Shaft Seal Cover Gasket | 002W26685 | 1 |
| 10 | Rotary Shaft Seal Cover | 003/8"-16 x 1"ht | 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| 11 | Rotary Shaft Seal | 002W26684 | ī |
| 12 | Roller Bearing | 002W48538 | 2 |
| 14 | L.P. Cylinder Outer Plate | 002R26350P1 | $\begin{bmatrix} \bar{1} \end{bmatrix}$ |
| 15 16 | Bearing Housing to L.P. Cylinder Set Screw. | $005/8''-11x2\frac{1}{4}$ ht | 8 |
| 17 | L.P. Outer Bearing Housing Washer | 00X1016T47 | 16 |
| 18 | L.P. ROTOR | 002H18000TP | 1 1 |
| 19 | L.P. Rotor Bearing Spacer | 002W48400 | 1. |
| 20 | L.P. Rotor Bearing Spacer - Engine End | 002W48400 | 1 |
| 21 | Compressor Coupling Drive Gear Key | 00X1495T3 | 1 |
| 22 | Compressor Coupling Locknut | 002W26503 | 1 |
| 23 | Compressor Coupling Lockwasher | 002W26506 | 1 ' |
| 24 | L.P. Rotor Vane Set (consists of 8) | 00R250P110 | 1 |
| 25 | L.P. Cylinder | 002F11933 | 1 |
| 26 | UL-89 Regulator Body Gasket | 2W32710 | 1 |
| 27 | Bearing Housing to Cylinder "O" Ring | 00X1514T450C | 2 |
| 28 | L.P. Cylinder Bottom Cover | 002 R26301 | 1 " |
| 29 | L.P. Cylinder Bottom Cover Gasket | 002R26302 | 1 |
| 30 | L.P. Cylinder Bottom Cover Set Screw | $00\frac{1}{2}$ "-13 x $1\frac{1}{4}$ ht | 8 |
| 31 | L.P. Cylinder Inner Plate | 002R26349P1 | 1 |
| 32 | L.P. Inner Bearing Housing | 002 F12129 | 1 |
| 34 | L. P. Inner Bearing Housing Stud | 00T2V4586-4 | 12 |
| 35 | L.P. Inner Bearing Housing Stud Nut | 005/8 - 11 | 12 |
| 36 | Housing to L.P. Cylinder Set Screw | $005/8''-11 \times 2\frac{1}{4}$ ht | 8 |
| 37 | Housing Spacer - Outer Ring | 002W32685 | 1 |
| * | Resilient Mount | T2WPP210 | 2 |
| * | Nuts & Spring Washers | 3/8" UNF | 4 |
| * | Nut & Washer, | 9/16" UNF | 2 |
| 38 | L.P. Inner Bearing Housing Shim-Set(as required) | 00X1406Ţ5 | 1 |
| L | | <u> </u> | |

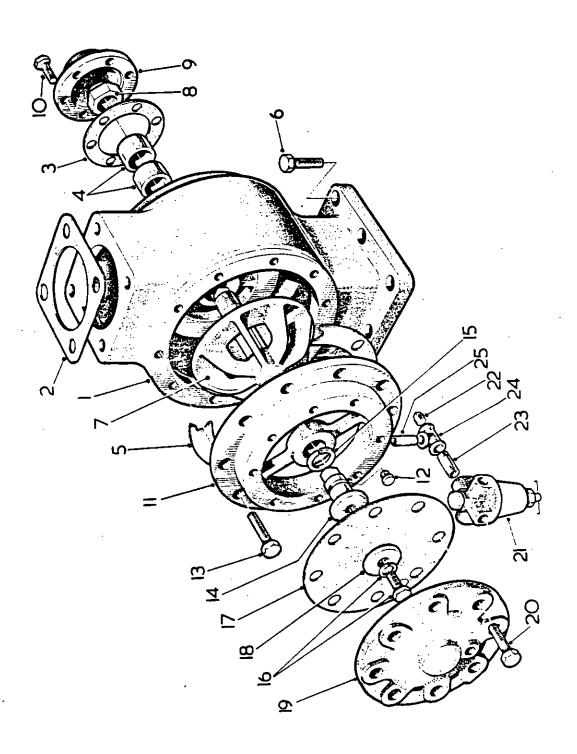
Always give the serial number of your compressor.

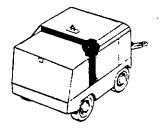
Do not order by illustration number - order by part number.





| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|---------------|--|-------------------------------------|------|
| | H.P. CYLINDER COMPLETE | 002H18120 | 1 |
| 1 | | 002H18078 | 1 |
| 2 | Inner Bearing Housing Gasket | 002R26307 | 1 |
| 3 | Bearing Housing to H. P. Cylinder Set Screw. | $005/8''-11\times2\frac{1}{4}$ ht | 8 |
| . 4 | Roller Bearing | 002W48538 | 2 |
| 5 | H.P. Cylinder Inner Plate | 002R26296P1 | 1 |
| 6 | H.P. Rotor. | 002H17999TP | 1 |
| 7 | H.P. Rotor Bearing Spacer | 002W48400 | 2 |
| 8 | H.P. Rotor Vane Set (consists of 8) | 00R250P115 | 1 |
| 9 | H P Cylinder | 002F11943 | 1 |
| 10 | H.P. Cylinder | 00X1514T450C | 2 |
| 11 | H.P. Cylinder Outer Plate | 002R26295P1 | 1 |
| 12 | H.P. Outer Bearing Housing | 002H18079 | 1 |
| 13 | Housing to H. P. Cylinder Set Screw | $005/8''-11 \times 2\frac{1}{4}$ ht | 8 |
| 14 | Bearing Housing Steel Washer | 00X1016T47 | 16 |
| 15 | H.P. Rotor Drive Shaft | 002R26259 | 1 |
| 16 | H. P. Inner Bearing Support | 002W32664 | 1 |
| 17 | Inner Bearing Spacer Snap Ring - Centre | 002W32684 | 1 |
| 18 | H.P. Inner Bearing Spacer Inner Ring | 002W32665 | 1 |
| 19 | H.P. Outer Bearing Snap Ring - Rear | 00X1318T19 | 1 |
| 20 | H.P. Temperature Switch | 2R17460 | 1 |
| 21 | H.P. Discharge Pipe Receiver | T2N1093 | 1 |
| 22 | H.P. Discharge Pipe Receiver Gasket | 2W48477 | 1 |
| 23 | H.P. Discharge Pipe Receiver Set Screw | 7/16"-14 x 1" ht | 4 |
| 24 | H.P. Discharge Pipe Receiver Lockwasher | 7/16'' | 4 |
| * . | Set Screw | 5/8"UNC x 3" ht | 2 |





| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|---|--|---|---|
| No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | INLET UNLOADER ASSEMBLY. UL89 Volumetric Regulator Body. Compressor Air Inlet Elbow Gasket. UL89 Volumetric Regulator Valve Nut Cover Gasket UL89 Volumetric Regulator Valve Bushing. UL89 Volumetric Regulator Diaphragm Body Gasket UL89 Volumetric Regulator Body Set Screw. UL89 Volumetric Regulator Valve. UL89 Volumetric Regulator Valve. UL89 Volumetric Regulator Valve Locknut. UL89 Volumetric Regulator Valve Nut Cover. Valve Nut Cover Set Screw. UL89 Volumetric Regulator Diaphragm Body. Diaphragm Body Orifice Plug Diaphragm Body Set Screw. UL89 Volumetric Regulator Diaphragm Piston UL89 Volumetric Regulator Diaphragm Piston Ring UL89 Volumetric Regulator Diaphragm Piston Ring UL89 Volumetric Regulator Diaphragm | 2F7165 2F122TP 2W32766 2W30340 2W35030 2W32705 5/8" - 11 x 1½"ht 2H11590 7/8" - 9 2W30327 3/8" - 16 x 1" ht 2H11589 X1080T38 ½" - 13 x 1¼" ht 2W32707 X1440T6A 7/16" - 14 x 1¼"ht 2W32706 2W32708 | 1 1 1 2 1 8 1 1 1 6 1 1 8 1 2 |
| 19 20 21 | UL89 Volumetric Regulator Diaphragm Cover Diaphragm Cover Set Screw | $ \begin{array}{c} 2R18043 \\ \frac{1}{2} - 13 \times 1\frac{1}{2} \text{ ht} \\ 2W48571 \end{array} $ | 6 |
| 22 23 24 25 | Pipe Plug Reducing Valve Space Nipple Pipe Tee Hex. Nipple Tee to Regulator | 1 BSPT 1 BSPT x 4½" 1 BSPT x 4½" 1 BSPT 1 BSPT | 1 1 1 1 |

PAGE 8. SECTION 3.

| Item No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY, |
|-------------|--|--------------------|------|
| 1 2 | Cylinder End Plate Discharge Hole Plug Pipe Plug (UL 89 Body) | 2W57579 ½" BSPT | 4 2 |

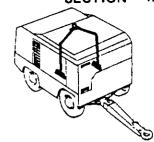
RUNNING GEAR FRAME HOUSING

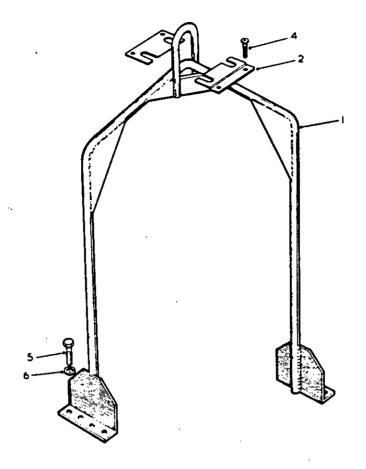
ASSOCIATED PARTS

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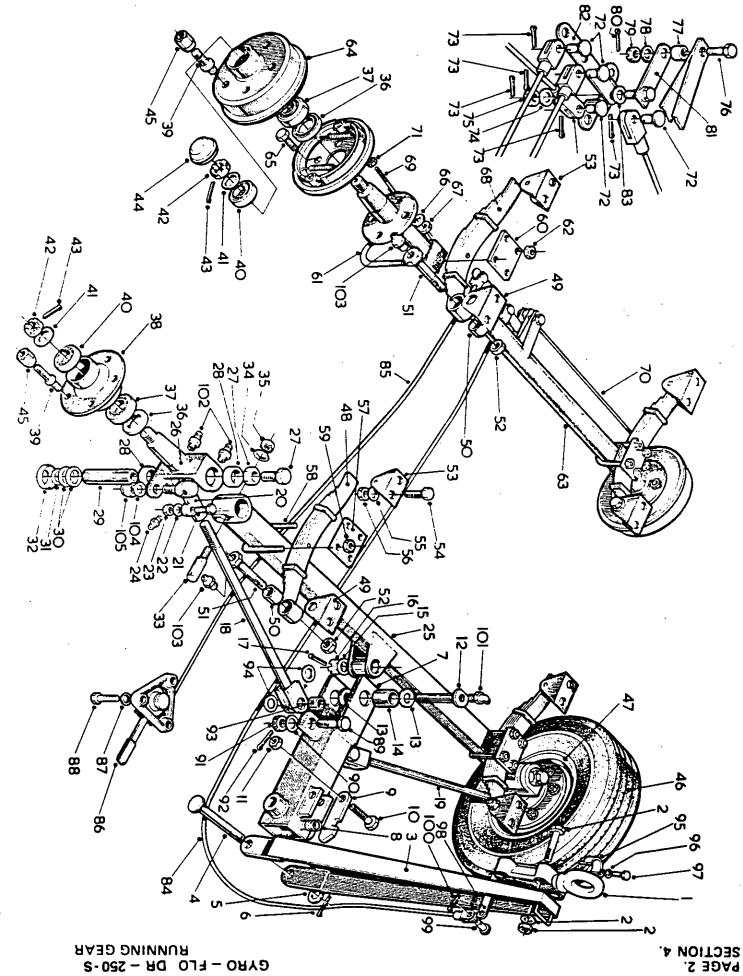
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| Housing (4 Wheel), | Page 3 - 11 |
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| Brake Details | Page 20 |
| Parts Not Illustrated | Page 21 |

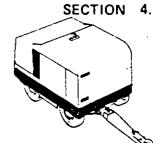




| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|-----------------------|--|---|--------------------------|
| 1 2 4 5 6 | Lifting Bail Assembly Lifting Bail Hole Cover Self Tapping Screws Set Screws Lockwashers | T2K4843 T2T5277 No. 14 5/8''UNC x 11 x 2'' | 1 1 4 ht 8 8 |



RUNNING GEAR CARO - FLO DR - 250-5



| <u> </u> | | | |
|-----------|--|--------------------------|--|
| Illus. | NAME OF PART | PART NO. | QTY. |
| No. | Parts indented after an item are included with the item. | PART NO. | Q.1.1. |
| * | Truck Frame | T2N2014 | 1 |
| | Running Gear Complete | T2T5274 | 1 |
| 1 | Towing Box | T2T5274/ 1 | 1 |
| $\hat{2}$ | Towing Box, Bolt & Nut Washer | T2T5274/ 2 | 4 |
| 3 | Draw Bar | T2T5274/3 | 1 |
| 4 | Draw Bar Pin | T2T5274/ 4 | 1 |
| 5 | Draw Bar Pin Washer | T2T5274/5 | 1 |
| 6 | Draw Bar Pin Split Pin | T2T5274/ 6 | 1 |
| 7 | Pintel | T2T5274/ 7 | 1 |
| 8 | Latch Spring | T2T5274/-8 | 1 |
| 9 | Latch | T2T5274/ 9 | 1 |
| 10 | Set Screw | T2T5274/10 | 1 |
| 11 | Nut | T2T5274/11 | 2 |
| 12 | Pivot Pin | T2T5274/12 | 1 |
| 13 | Washer | T2T5274/13 | 2 |
| 14 | Pivot Pin Bush | T2T5274/14 | 1 |
| 15 | Washer | T2T5274/15 | 1 |
| 16 | Nut | T2T5274/16 | 1 |
| 17 | Split Pin | T2T5274/17 | 1 |
| 18 | Track Rod - RH | T2T5274/18 | 1 |
| 19 | Track Rod - LH | T2T5274/19 | 1 |
| 20 | Track Rod End - RH | T2T5274/20 | 1 |
| . * | Track Rod End - LH | T2T5274/21 | 1 |
| 21 | Set Screw | T2T5274/22 | 2 |
| 22 | Washer | T2T5274/23 | 2 |
| 23 | Nut | T2T5274/24 | 2 |
| 24 | Grease Nipple | T2T5274/25 | 8 |
| 25 | Front Axle | T2T5274/26 | 1 1 |
| 26 | Stub Pivot - RH | T2T5274/27 | 1 1 |
| * | Stub Pivot - LH | T2T5274/28 T2T5274/29 | $\begin{vmatrix} 1 \\ 2 \end{vmatrix}$ |
| 27 | Set Screw and Hex. Nut | T2T5274/29 | 4 |
| 28 | King Pin Bushing | T2T5274/30 | 2 |
| 29 | King Pin | T2T5274/31 | 4 |
| 30 | Thrust Washer | T2T5274/32 | 2 |
| 31 | Washer | T2T5274/34 | 2 |
| 32 | Thrust Washer Retainer | T2T5274/35 | 2 |
| 33 | Cotter Pin | T2T5274/36 | 1 |
| 34 | Washer | 1213214/30 | |

* Not illustrated.

| Illus. | NAME OF PART | | O.T. |
|------------|--|------------|------|
| No. | Parts indented after an item are included with the item. | PART NO. | QTY. |
| | | ·· | |
| 35 | Hex. Nut | T2T5274/37 | 2 |
| 36 | Oil Seal | T2T5274/38 | 4 |
| 37 | Bearing - Inner | T2T5274/39 | 4 |
| 38 | Hub | T2T5274/40 | 4 |
| 39 | Stud - LHT | T2T5274/41 | 10 |
| * | Stud - RHT | T2T5274/42 | 10 |
| 40 | Bearing - Outer | T2T5274/43 | 4 |
| 41 | "D" Washer | T2T5274/44 | 4 |
| 42 | Axle End Nut | T2T5274/45 | 4 |
| 43 | Split Pin | T2T5274/46 | 4 |
| 44 | Hub Cap | T2T5274/47 | 4 |
| 45 | Wheel Nut - LHT | T2T5274/48 | 10 |
| * | Wheel Nut - RHT | T2T5274/49 | 10 |
| 46 | Tyre | T2T5274/50 | 4 |
| 47 | Wheel | T2T5274/51 | 4 |
| 48 | Front Spring | T2T5274/52 | 2 |
| 49 | Fixed End Shackle | T2T5274/53 | 4 |
| 50 | Shackle Bush, | T2T5274/54 | 4 |
| 51 | Fixed End Shackle Bolt ' | T2T5274/55 | -1 |
| 52 | Hex. Nut | T2T5274/56 | 4 |
| 5 3 | Moving End Shackle | T2T5274/57 | 4 |
| 54 | Set Screw | T2T5274/58 | 16 |
| 55 | Washer | T2T5274/59 | 16 |
| 56 | Hex. Nut | T2T5274/60 | 16 |
| 57 | Front Spring Bolt Plate | T2T5274/61 | 2 |
| 58 | Bolt | T2T5274/62 | 4 |
| 59 | Hex. Nut | T2T5274/63 | 5 |
| 60 | Rear Spring Bolt Plate | T2T5274/64 | 2 |
| 61 | Bolt | T2T5274/65 | 4 |
| 62 | Nut | T2T5274/66 | • |
| 63 | Rear Axle | T2T5274/67 | 1 |
| 64 | Brake Drum | T2T5274/68 | 2 |
| 65 | Set Screw | T2T5274/69 | 8 |
| 66 | Washer | T2T5274/70 | 8 |
| 67 | Hex. Nut | T2T5274/71 | 8 |
| 68 | Rear Spring | T2T5274/72 | 2 |
| 69 | Brake Rod - N/S | T2T5274/73 | 1 |
| 70 | Brake Rod - O/S | T2T5274/74 | 1 |

^{*} Not illustrated.

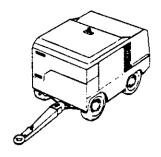
| Illus. | NAME OF PART | DADT NO | QTY. |
|--------|--|-------------|------|
| No. | Parts indented after an item are included with the item. | PART NO. | QII. |
| 71 | Brake Rod Lock Nut | T2T5274/75 | 2 |
| 72 | Swivel Pin | T2T5274/76 | 4 |
| 73 | Split Pin | T2T5274/77 | 4 |
| 74 | Washer | T2T5274/78 | 2 |
| 75 | Hex. Nut | T2T5274/79 | 1 |
| 76 | Set Screw | T2T5274/80 | 1 |
| 77 | Spacer | T2T5274/81 | 1 |
| 78 | Washer | T2T5274/82 | 1 |
| 79 | Hex. Nut | T2T5274/83 | 1 |
| 80 | Split Pin | T2T5274/84 | 1 |
| 81 | Plate | T2T5274/85 | 1 |
| 82 | Lever | T2T5274/86 | 1 |
| 83 | Washer | T2T5274/87 | 1 |
| 84 | Brake Cable | T2T5274/88 | 1 |
| 85 | Hand Brake Cable | T2T5274/89 | 1 |
| 86 | Handle | T2T5274/90 | 1 |
| 87 | Lockwasher | T2T5274/91 | 1 |
| 88 | Set Screw. | T2T5274/92 | 1 |
| 89 | Set Screw | T2T5274/93 | 1 |
| 90 | Washer | T2T5274/94 | 1 |
| 91 | Castle Nut. | T2T5274/95 | 1 |
| 92 | Split Pin | T2T5274/96 | 1 |
| 93 | Bush | T2T5274/97 | 1 |
| 94 | Thrust Washers | T2T5274/98 | 2 |
| 95 | Latch Plate (Tow Box) | T2T5274/99 | 1 |
| 96 | Washer | T2T5274/100 | 1 |
| 97 | Set Screw | T2T5274/101 | 1 |
| 98 | Tow Box Overun Brake Lever | T2T5274/102 | 1 |
| 99 | Clevis | T2T5274/103 | 1 |
| 100 | Split Pin | T2T5274/104 | 1 |
| 101 | Greaser (Angled) | T2T5274/105 | 1 |
| 102 | Greasers (Stub Pivot) | T2T5274/106 | 2 |
| 103 | Greasers (Fixed Shackle) | T2T5274/107 | 1 |
| 104 | Washer | T2T5274/108 | 1 |
| 105 | Nut | T2T5274/109 | 1 |

▼ - MHEEF HODRING

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PAGE 8.



| | , | | |
|----------|--|--------------------------------------|----------------|
| Illus. | NAME OF PART | | 0.001. |
| No. | Parts indented after an item are included with the item. | PART NO. | QTY. |
| | HOUSING (A WILESI) | | |
| 4 | HOUSING (4 WHEEL) Air Inlet Duct - RH | T2K4805 | 1 |
| 1 | Setscrew | 3/8" UNC x ¾" | $\overline{7}$ |
| * | Spring Washer | 3/8" | 7 |
| 2 | Air Inlet Duct - LH | T2K4847 | 1 |
| ∠ ` | Setscrew | 3/8" UNC x ¾" | 7 |
| * | Spring Washer | 3/8" | 7 |
| 3 | Fender - RH | T2K4845 | 1 |
| ა * | Setscrew | 3/8"UNC x ¾" | 8 |
| * | Spring Washer | 3/8" | 8 |
| 4 | Fender - LH | T2K4846 | 1 |
| + | Setscrew | 3/8" UNC x 3" | 8 |
| * | Spring Washer | 3/8" | 8. |
| 5 | Air Inlet Grill | T2T5217 | 2 |
| * | Setscrew | 5/16"UNC x 5/8" | 8 |
| * | Flat Washer | 5/16" | 8 |
| 6 | Front Panel | 92284173 | 1 |
| * | Setscrew | 3/8"UNC x 3" | 10 |
| * | Spring Washer | 3/8" | 10 |
| 7 | I-R Monogram | 20A16A2D | 1 |
| 6 | Rear Panel Ass | T2N2027 | 1 |
| * | Setscrew | 5/16"UNC x 5/8" | 18 |
| * | Spring Washer | 5/16" | 18 |
| 9 | Rear Panel | T2K4848 | 1 |
| * | Setscrew | 5/16"UNC x 5/8" | 16 |
| * | Spring Washer | 5/16" | 16 |
| 10 | Discharge Pipe Cover | T2T5289 | 1 |
| * | Self Tapping Screw | No. 14 x $\frac{1}{2}$ " | 8 |
| 11 | Discharge Elbow Cover Plate | T2V8925 | 1 |
| * | Setscrew | $\frac{1}{4}$ 'UNC x $\frac{1}{2}$ " | 3 |
| 12 | Grommet | T2 3716 - 125 | 5 |
| 13 | Instrument Panel Access Door with Hinge | T2K4903 | 1 |

* Not illustrated.

Always give the serial number of your compressor.

Do not order by illustration number - order by part number.

SECTION 4.

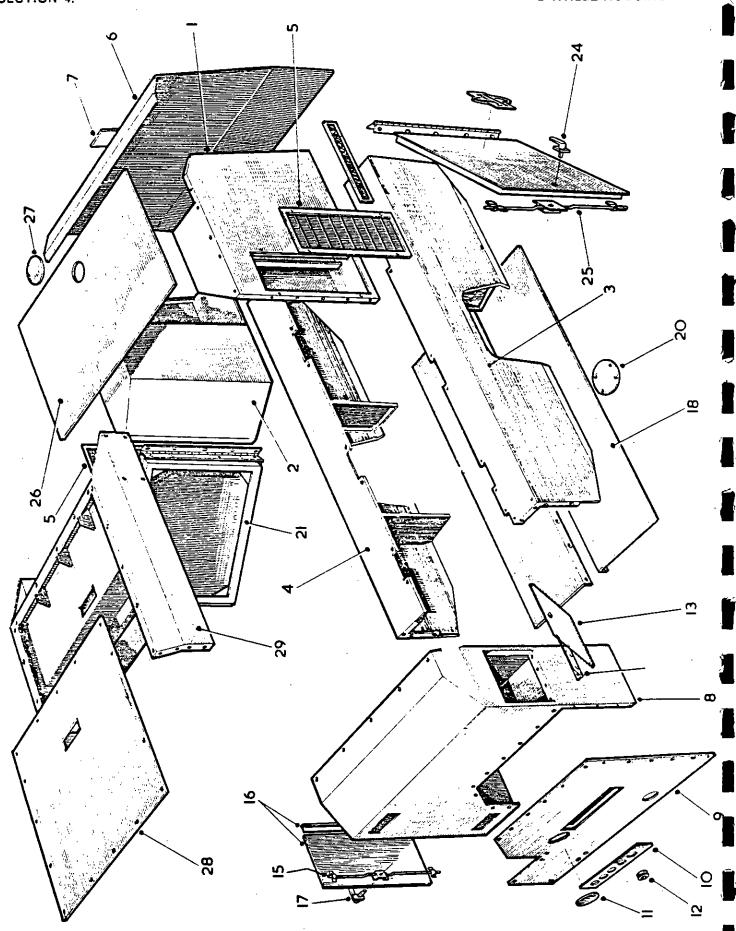
4 - WHEEF HONRING GABO - EFO DB - 520-2

| Illus. | NAME OF PART | DADT NO | QTY. |
|--------|--|---------------------------------------|-------|
| No. | Parts indented after an item are included with the item. | PART NO. | (711. |
| 15 | 2 Way Rod Latch | T2V8856 | 1 |
| 16 | Filter Access Door with Hinge | T2K4800 | 1 |
| * | Setscrew | $\frac{1}{4}$ " UNC x $\frac{1}{2}$ " | 5 |
| * | Spring Washer | 1/4 | 5 |
| 17 | Handle | T2V8858 | 1 |
| 18 | Underside Baffle Plate | T2N2018 | 1 |
| * | Setscrew | $\frac{1}{4}$ " UNC x $\frac{1}{2}$ " | 16 |
| * | Spring Washer | $\frac{1}{4}$ ". | 16 |
| * | Setscrew | 5/16"UNC x 5/8" | 18 |
| * | Spring Washer | 5/16" | 18 |
| 20 | Underside Baffle Plate Cover | T2V8791 | 1 |
| * | Setscrew | 1 1 UNC x 3 1 | 4 |
| * | Spring Washer | 4 | 4 |
| 21 | Main Door with Hinge | T2K4812 | 2 |
| * - | Setscrew | 5/16"'UNC x 5/8" | 10 |
| . * | Spring Washer | 5/16" | 10 |
| * | 2 Way Rod Latch 3/18793 | T2 V8856 | 1 |
| 24 | Handle | T2V8858 | 2 |
| 25 | 2 Way Rod Latch 3/18624 | T2V8857 | 1 |
| 26 | Front Cover | T5272 |] 1 |
| * | Setscrew | 5/16" UNC x 5/8" | 24 |
| * | Spring Washer | 5/16" | 24 |
| 27 | Radiator Filler Sealing Plate | T2V8992 | 1 |
| * | Self Tapping Screw | No. 14 | 4 |
| 28 | Top Cover | T2K4809 | 1 |
| ₩ ` | Setscrew | 5/16''UNC x 5/8'' | 18 |
| * | Washer | 5/16'' | 18 |
| 29 | Top Assembly | T2N2026 | 1 |
| * | Setscrew | 5/16" UNC x 5/8" | 14 |
| * | Washer | 5/16" | 14 |

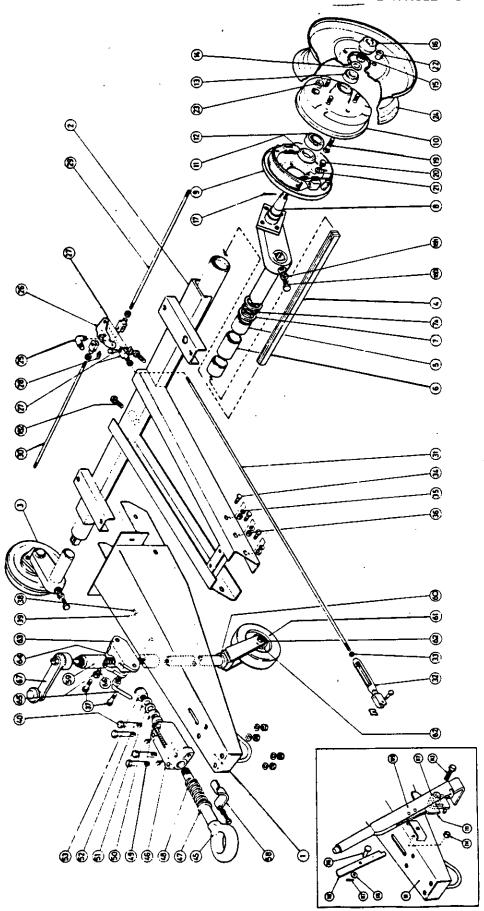
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| | | 444 (4 | |
|---|--|--|--|
| Illus. No | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
| 1 * 2 * 3 * 4 * 5 * 6 * 7 8 * 9 * 10 * 11 * 12 13 | HOUSING (2 WHEEL) Air Inlet Duct - RH Setscrew Spring Washer Air Inlet Duct - LH Setscrew Spring Washer Fender - RH Setscrew Spring Washer Fender - LH Setscrew Spring Washer Air Inlet Grill Setscrew Flat Washer Front Panel Setscrew Spring Washer I-R Monogram Rear Housing Assembly Setscrew Spring Washer Rear Panel Setscrew Spring Washer Rear Panel Setscrew Spring Washer Rear Panel Setscrew Spring Washer Discharge Pipe Cover Self Tapping Screw Discharge Elbow Cover Plate Setscrew Grommet Instrument Panel Access Door with Hinge | T2K4805 3/8" UNC x 3" 3/8" T2K4847 3/8"UNC x 3" 3/8" T2K4917 3/8"UNC x 3" 3/8" T2K4918 3/8"UNC x 3" 3/8" T2T5217 5/16"UNC x 5/8" 5/16" 92284173 5/16"UNC x 5/8 5/16" 20A16A2D T2N2027 3/8"UNC x 3" 3/8" T2K4848 5/16"UNC x 5/8 5/16" T2T5289 No.14 x ½" T2V8925 ½"UNC x ½" T2V8925 ½"UNC x ½" T23716-125 T2K4903 | 1 7 7 1 8 8 1 8 8 2 8 8 1 18 1 10 10 16 16 1 8 1 3 5 1 |
| | | <u> </u> | |

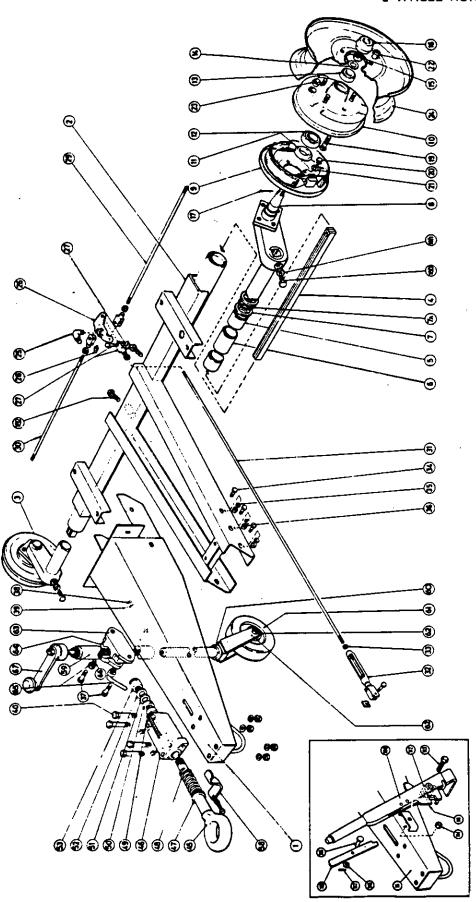


| Illus. | NAME OF PART | PART NO. | QTY. |
|--------|--|---------------------------------------|------|
| No. | Parts indented after an item are included with the item. | | |
| 15 | 2 Way Rod Latch | T2V8856 | 1 |
| 16 | Filter Access Door with Hinge | T2K4800 | 1 |
| * | Setscrew | $\frac{1}{4}$ " UNC x $\frac{1}{2}$ " | 5 |
| * | Spring Washer | $\frac{1}{4}$ " | 5 |
| 17 | Handle | T2V8858 | 1 |
| 18 | Underside Baffle Plate | T2N2043 | 1 |
| * | Setscrew | $\frac{1}{4}$ " UNC x $\frac{1}{2}$ " | 16 |
| * | Spring Washer | $\left \frac{1}{4}\right $ | 16 |
| * | Setscrew | 5/16"UNC x 5/8" | |
| * | Spring Washer | 5/16" | 18 |
| 20 | Underside Baffle Plate Cover | T2V8791 | 1 |
| * | Setscrew | $\frac{1}{4}$ " UNC x $\frac{3}{4}$ " | 4 |
| * | Spring Washer | $\frac{1}{4}$. | 4 |
| 21 | Main Door with Hinge | T2K4812 | 2 |
| * | Setscrew | 5/16"UNC x $5/8$ " | |
| * | Spring Washer | 5/16'' | 10 |
| * | 2 Way Rod Latch 3/18793 | T2V8856 | 1 |
| 24 | Handle | T2V8858 | 2 |
| 25 | 2 Way Rod Latch 3/18624 | T2V8857 | 1 |
| 26 | Front Cover | T2T5272 | 1 1 |
| * | Setscrew | 5/16" UNC x 5/8" | |
| * | Spring Washer | 5/16" | 16 |
| 27 | Radiator Filler Sealing Plate | T2T5222 | 1 |
| * | Self Tapping Screw | No. 14 | 4 |
| 28 | Top Cover | T2K4809 | 1 * |
| * | Setscrew | 5/16"UNC x 5/8" | 18 |
| * | Washer | 5/16'' T2N2026 | 15 |
| 29 | Top Assembly | 5/16" UNC x 5/8 | |
| * | Setscrew | 5/16 UNC X 5/8 | 14 |
| * | Washer | 0/10 | 1.4 |



| | | | |
|-------------|--|------------|----------|
| Illus. | NAME OF PART | D. D. N.O. | OTN: |
| No. | Parts indented after an item are included with the item. | PART NO. | QTY. |
| | | <u> </u> | |
| | Set Rubery Owen 2 Wheel | | |
| | Running Gear | T2T2350 | 1 |
| * | Wheel & Tyre Assembly Complete | 92296839 | 2 |
| * | Bolts $-\frac{1}{2}$ UNF x $1\frac{1}{4}$ Ig | 92273523 | 4 |
| * | Philidas Nuts $-\frac{1}{2}$ " UNF | 92022763 | 1 4 |
| | - | ł | |
| * | Bolt - $5/8$ "UNF x $1\frac{1}{4}$ " | 92272459 | 4 |
| * | Philidas Nuts - 5/8" | 92271642 | 4 |
| 1 | Front Tow Bar | 92305028 | 1 |
| 2 | Rear Tow Bar/Axle Tube | 92305036 | 1 |
| 3 | Swinging Arm Hub & Brake Assembly LH | 92305044 | 1 |
| 3a | Swinging Arm Hub & Brake Assembly RH | 92305051 | 1 |
| 4 | Torsion Bar | 92305069 | · 2 |
| 5 | Axle Tube Bush | 92305077 | 4 |
| 6 | Distance Piece | 92305085 | 2 |
| 7 | Felt Ring | 92305093 | 4 |
| 7a | "O" Ring | 92305101 | 2 |
| 8 | Swinging Arm LH | 92305119 | 1 |
| 8a | Swinging Arm RH | 92305127 | 1 |
| 9 | Brake Assembly LH | 92305135 | 1 |
| .9a | Brake Assembly RH | 92305143 | 1 |
| 10 - | Brake Drum (complete with bearings) | 92305150 | 2 |
| | (studs & nuts) | | |
| 11 | Grease Seal | 92305168 | 2 |
| 12 | Inner Bearings | 92305176 | 2 |
| 13 | Outer Bearings | 92305184 | 2 |
| 14 | Washer | 92305192 | . 2 |
| 15 | Slotted Nut | 92305200 | 2 |
| 16 | Grease Cap | 92305218 | 2 |
| 17 | Split Pin | 92305226 | 2 |
| 18/1 | Nut | 92305234 | 4 |
| 18/2 | Locking Screw | 92305242 | 2 |
| 18/3 | Locking Screw | 92305249 | 2 |
| 19 | Wheel Stud | 92305267 | 10 |
| 20 | Bolt3/8"UNF x 7/8" lg | 92305275 | 8 |
| * | Nut3/8" UNF | 92305283 | 8 |
| 21 | Spring Washer | 92305291 | 8 |
| 22 | Wheel Nut | 92305309 | 10 |
| 25 | "L" Bolt | 92305325 | 1 |
| 26 | Compensator Lever | 92305333 | 1 |
| 27 | Clevis Assembly | 92305341 | 3 |
| 28 | Grease Nipple | 92305358 | 1 |
| * | Spring Washer | 92305366 | 1 |
| 29 | Brake Rod LH | 92305374 | 1 |
| 30 | Brake Rod RH | 92305382 | 1 |
| * | | 92305390 | 2 |
| 31 | Brake Rod | 92305408 | <u> </u> |

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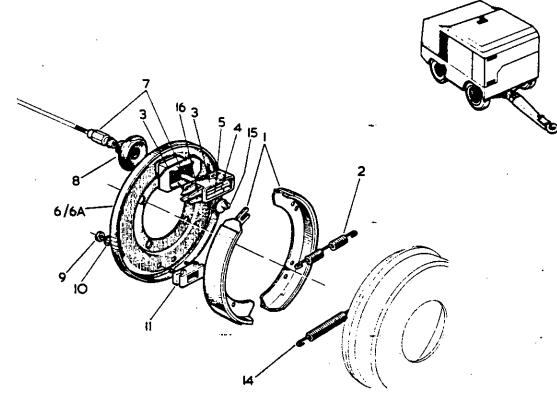


| Illus No | DESCRIPTION Parts indented after an item are included with the item | PART NO | QTY |
|----------------|--|---|-----|
| | | With the state of | |
| 32 | Turnbuckle Assembly | 92305416 | 1 |
| 33 | Locknut | 92305424 | 6 |
| 34 | Bolt (none standard) | 92305432 | 6 |
| 35 | Washer (none standard) | 92305440 | 6 |
| 36 | Nut (none standard) | 92305457 | 6 |
| 37 | Bolt - $5/8''$ UNF x $1\frac{1}{2}''$ | 92305465 | 2 |
| 38 | Nut - 5/8" UNF | 92305473 | 2 |
| 39 | Spring Washer | 92305481 | 2 |
| 40 | Bolt - ½" UNF x 3" | 92305499 | 4 |
| * | Nut $-\frac{1}{2}$ UNF | 92305507 | 4 |
| * | | 92305515 | 4 |
| 45 | Eye and Shaft | 92305564 | 1 |
| 46 | Hitch Body | 92305572 | 1 |
| 47 | Washer | 92305580 | 1 |
| 48 | Spring | 92305598 | 1 |
| 49 | Rubber Shock Absorber | 92305606 | 1 |
| 50 | Plain Washer | 92305614 | 1 |
| 53 | Nut | 92305622 | 1 |
| 58 | Handle & Knob | 92305630 | 1 |
| 50 59 | Outer Tube Assembly | 92305648 | ļī |
| 60 | Inner Tube & Castor | 92305655 | ī |
| 61 | Jockey Wheel | | ī |
| | Pivot Bracket | 92305689 | 1 |
| 62 | Top Cap | 92305697 | l î |
| 63 | Locking Handle & Nut | 92305705 | i |
| 65 | | 92305713 | lî |
| 66 | Clamp Bolt & Nut | 92305689 | i |
| 67 * | Bracket | 92305317 | 2 |
| . * | Wheels - 500F | 600 x 15 x 4 | 2 |
| , | 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 92323724 | li |
| 109 | Handbrake Complete | 92323732 | li |
| 110 | Lever | 92323732 | 1 |
| 111 | Ratchet | 92323740 | |
| 112 | Spring | 92323765 | 1 1 |
| 113 | Pivot Bolt | 92323765 | 1 |
| 114 | Nut | 92323773 | ļ — |
| 115 | Pivot Pin | L | 1 |
| 116 | Plain Washer | 92376581 | 1 |
| 117 | Split Pin | 92323799 | 1 |

Not illustrated.

Always give the serial number of your compressor.





| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|---|---|--|--|
| No. * * 1 2 3 4 5 6 6A 7 8 9 10 11 * * | BRAKE ASSEMBLY COMPLETE RH BRAKE ASSEMBLY COMPLETE LH Brake Shoe (Pair) Pull - off Spring Expander Body and Cover Lever - Inner Lever - Outer Back Plate Assembly RH Back Plate Assembly LH Pull Rod and Pin Assembly Boot Nut Spring Washer Body and Abutment Pin for Expander - Long Pin for Expander - Short | T2102380 T2102381 T2LB110 T225738 T288645 T288656 T288650 T2102382 T2102383 T2102383 T2103363 T232324 T2K18609 T2K19208 T2K19208 T2S594 T291139 T288653 | 1 1 1 1 1 2 1 1 1 1 2 2 1 1 1 2 2 1 |
| 14 15 16 | Tension Spring Micram Adjuster Mask | T295393 T225254 T225253 | 1 1 |

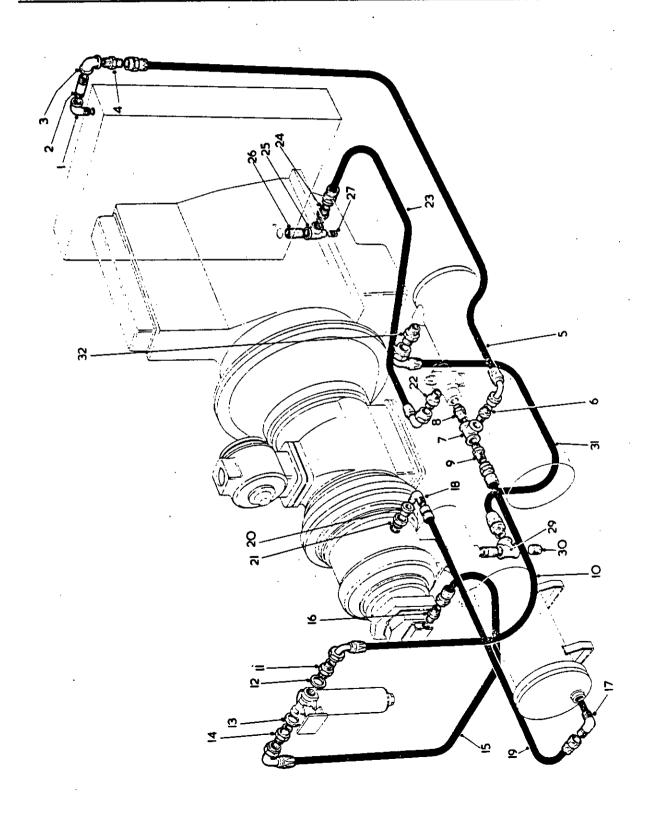
| Item No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|--------------|---|--------------|------|
| 1 | Gyro Model Plate | T2V8884 | 2 |
| 2 | Nameplate | T2N2035 | 2 |
| $\bar{3}$ | General Data Plate | T2T5301 | 1 |
| 4 | Preventative Maintenance Plate | T2T5298 | 1 |
| 5 | Operating Instruction Plate | T2T5299 | 1 |
| 6 | Neoprene Adhesive Tags | - | 24 |
| - | Front Panel Pad | T2V8835 | 1 |
| š | Inlet Duct Pad | T2V8836 | 6 |
| 9 | Inlet Pad | T2V8S37 | 2 |
| 10 | Inlet Side Panel Pad | T2V8838 | 2 |
| 11 | Main Door Pad | T2V8841 | 2 |
| 12 | Bulk Head Pad | T2T5283 | 1 |
| 13 | Front Cover Pad | T2V8839 | 1 |
| 14 | Engine Cover Pad | T2V8840 | 1 |
| 15 | Rear Bulk Head Pad | T2V8842 | 1 |
| 16 | Radiator Pad | T2V8891 | 2 |
| 17 | Main Door Perforated Panel | T2V8843 | 2 |

FLEXIBLE TUBING

INDEX SECTION 5.

INDEX

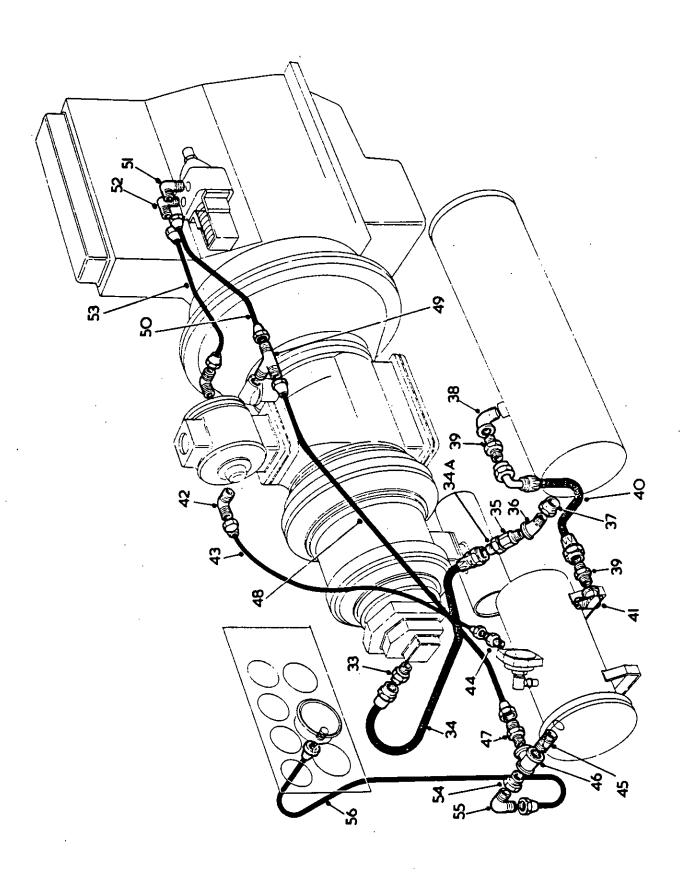
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| Oil Tubing | Page | 1 | | |
| Air Tubing | Page | 2 | - | 3 |
| Fuel Tubing | Page | 4 | - | 5 |
| Parts Not Illustrated | Page | 6 | | |





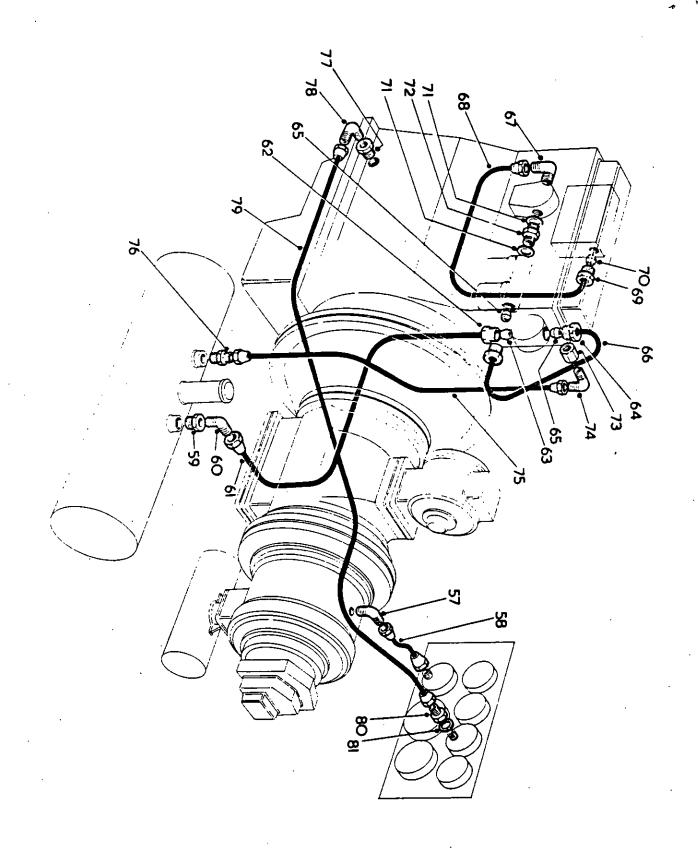
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|--------------------------------------|--|---|----------------------------|
| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
| 1 2 3 4 5 6 7 8 | OIL COOLER OUTLET TO BYPASS VALVE 90 Male/Female Elbow Space Nipple x 73 Long 90 Female Elbow Aeroquip Adaptor Aeroquip Hose Assembly Aeroquip Adaptor Equal 'T' Fitting Hex. Nipple | 3" BSPT 3" BSPT 3" BSPT T2 1320-12-12 T2 T5296/1 T2 1320-12-12 3" BSPT 3" BSPT | 1 1 1 1 1 1 |
| 9 10 11 12 | BYPASS VALVE TO OIL FILTER Aeroquip Adaptor Aeroquip Hose Assembly Aeroquip Adaptor Dowty Seal | T21320-12-12 T2T5296/2 T2V8830 T2V8829 | 1 1 1 |
| 13 14 15 16 | OIL FILTER TO OIL PUMP Dowty Seal Aeroquip Adaptor Aeroquip Hose Assembly Aeroquip Adaptor | T2V8829 T2V8830 T2T5296/3 T21320-12-12 | 1 1 1 |
| 17 18 19 20 21 | SECONDARY SEPARATOR TO HP CYLINDER (Scavenge) Oil Line Screen Assembly Male Elbow Connector Aeroquip Hose Assembly Orifice Reducing Bush (HP Cyl) | 2W43735 TP 3/8" BSPT T2T5296/8 2X1080TP $\frac{3}{4}$ " x $\frac{1}{4}$ " BSPT | 1 1 1 1 |
| 22 23 24 25 26 27 | BYPASS TO OIL COOLER INLET Aeroquip Adaptor. Aeroquip Hose Assembly Aeroquip Adaptor 'T' Fitting. Space Nipple x 3" Long Pipe Plug | T21320-12-12 T2T5296/7 T21320-12-12 34" x 34" x 12"BSPT 34" BSPT 12" BSPT | 1 1 1 1 1 |
| 29 30 31 32 | HEADER BOTTLE TO PRIMARY SEPARATOR Tee BSPT Pipe Plug Aeroquip Hose Assembly Aeroquip Adaptor | $\begin{array}{c} 1\frac{1}{2}" \times 1\frac{1}{2}" \times \frac{1}{2}" \\ \frac{1}{2}" \text{ BSPT} \\ \text{T2T5269/6} \\ \text{T21320-12-12} \end{array}$ | 1 1 1 |

PAGE 2. SECTION 5.





| Illus. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|-----------------------|---|---|------------------|
| No. | Parts indented after an item are included with the item. | | |
| 33 34 34a 35 | OIL PUMP TO SEPARATOR RELIEF VALVE Male Straight Connector - BSPT | 1/4" x 3/8" O/D T2T5296/4 1/4" x 3/8" O/D PCC 192 | 1 1 1 1 |
| 36 37 | 45 [°] Male/Female Elbow | 1/4" BSPT 1/2" x 1/4" BSPT | 1 |
| 38 39 40 41 | PRIMARY TO SECONDARY SEPARATOR 90 Male/Female Elbow | 1½" BSPT T21320-24-24 T2T5296/5 1½" BSPT | 1 2 1 |
| 42 43 44 | UL 89 TO AUTO BLOWDOWN VALVE Male Elbow Connector - BSPT - 608F Polypenco Tube Assembly Male Connector - NPT - 605F | ½" x 5/16" O/D T2T5296/12 1/8" x 5/16"O/D | 1 |
| 45 46 47 48 | SECONDARY SEPARATOR TO NORGREN VALVE Hex. Nipple | \frac{1}{4}" BSPT \frac{1}{4}" BSPT \frac{1}{4}" x 5/16"O/D T2T5296/13 | 1 1 1 |
| 49 50 51 | NORGREN VALVE TO UL88 REGULATOR Male 'T' Connector - BSPT - 610F Polypenco Tube Assembly Male Elbow Connector - BSPT - 608F | \frac{1}{4}" x 5/16" O/D T2T5296/14 \frac{1}{4}" x 5/16" O/D | 1 |
| 52 53 | UL88 TO UL89 Male Elbow Connector - BSPT - 608F Polypenco Tube Assembly | ½" x 5/16" O/D T2T5296/15 | 2 |
| 54 55 56 | SECONDARY SEPARATOR TO HP DISCHARGE GAUGE Reducing Bush Male Elbow Connector - BSPT - 608F Polypenco Tube Assembly | ½'' - 1/8''BSPT 1/8'' x 3/16''O/D T2T5296/11 | 1 1 1 |





| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|----------------------------|---|---|------------------|
| 57 | H.P. CYLINDER INLET TO INTERSTAGE Male Elbow Connector - BSPT - 608F Polypenco Tube Assembly | 1/8" x 3/16" C/D | 1 |
| 58 | | T2T5296/10 | 1 |
| 59 60 61 62 63 | FUEL TANK TO FUEL PUMP Reducing Bush - BSPT Male Elbow Connector - BSPT Polypenco Tube Assembly Tube Nut - Z404 Olive - Z18 | $\frac{3}{4}$ " x $\frac{1}{4}$ " | 1 1 1 1 |
| 64 | FUEL PUMP TO FILTER Tube Nut - Z18 | 5/16" Dia. | 2 |
| 65 | | 5/16" Dia. | 2 |
| 66 | | T2T5296/17 . | 1 |
| 67 | FUEL SOLENOID TO FUEL PUMP Male Elbow Connector - BSPT Polypenco Tube Assembly Nut Olive | 1/4" x 5/16" O/D | 1 |
| 68 | | T5296/18 | 1 |
| 69 | | 5/16" O/D | 1 |
| 70 | | 5/16" | 1 |
| 71 72 | FUEL FILTER TO FUEL SOLENOID Copper Washer | ½'' dia x3/64th. T2V5712 | 1 |
| 73 | ENGINE TO FUEL TANK (EXCESS FUEL) Adaptor Male Elbow Connector - BSPT Polypenco Tube Assembly Male Connector - BSPT | T2V8297 | 1 |
| 74 | | 1/8"x 3/16" O/D | 1 |
| 75 | | T2T5296/19 | 1 |
| 76 | | 1/4" x 3/16" O/D | 1 |
| 77 78 79 80 81 | ENGINE TO OIL PRESSURE GAUGE Reducing Connector - BSPT - Z325-9 Male Elbow Adaptor - BSPT - Y116 Polypenco Tube Assembly Female Connector Fibre Washer 5/16"O/Dx5/32"IDx3/64" Thick | 5/16" x 3/16" O/I 3/8" x 5/16" O/D T2T5296/9 T2V4818 | |

^{*} Not illustrated.

| Item No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|------------------------|--|---|-------------|
| 1 2 3 | 90° M/F Elbow(By-Pass to Oil Cooler Inlet) Rubber Grommet | ਼੍ਰੇ" BSPT T23716-125 T2HO1330-8 | 1 1 4 |
| 4 5 | Hose Clip | T2HD1300-4 T2HD1300-1 5/16"UNC x 1" | 2 2 2 |
| 6 - 8 | Set Screw Philidas Nut Back Plate | 5/16" UNC T2V3365 | 2 3 |
| 9 10 | Double Pipe Clip | T2W029554 No. 2 No. 1 | 3 2 2 |
| 11 12 13 | Nylastic Adjustable Pipe Clip | 3/16"BSW x ³ / ₄ " | 3 |
| 14 15 | Washer | 3/16" 3/16" BSW T2V7820 | 3 3 2 |
| 16 17 | Pipe Bracket | T2V5566 T2V5946 | 1 1 |
| 18 19 | Pipe Bracket | T2V5947 | 1 |

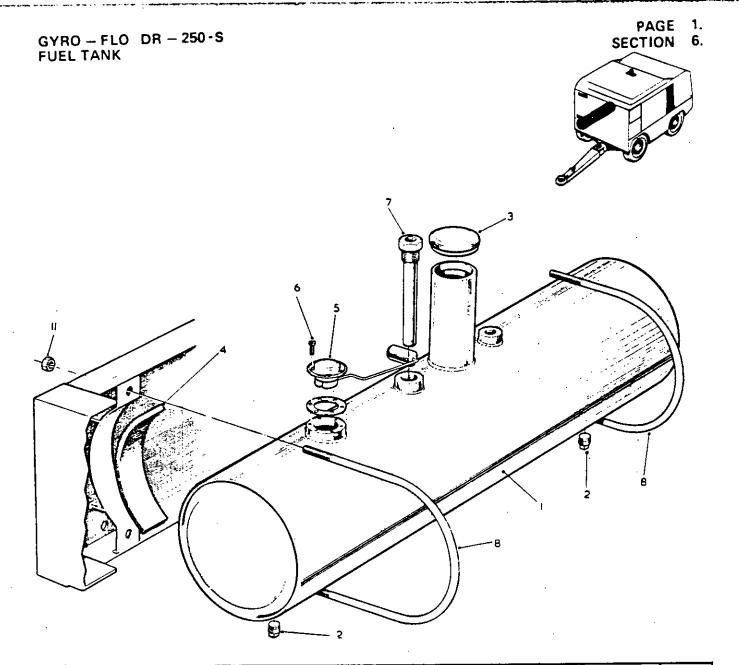
Do not order by illustration number - order by part number. Always give the serial number of your compressor.

AUXILIARY PARTS

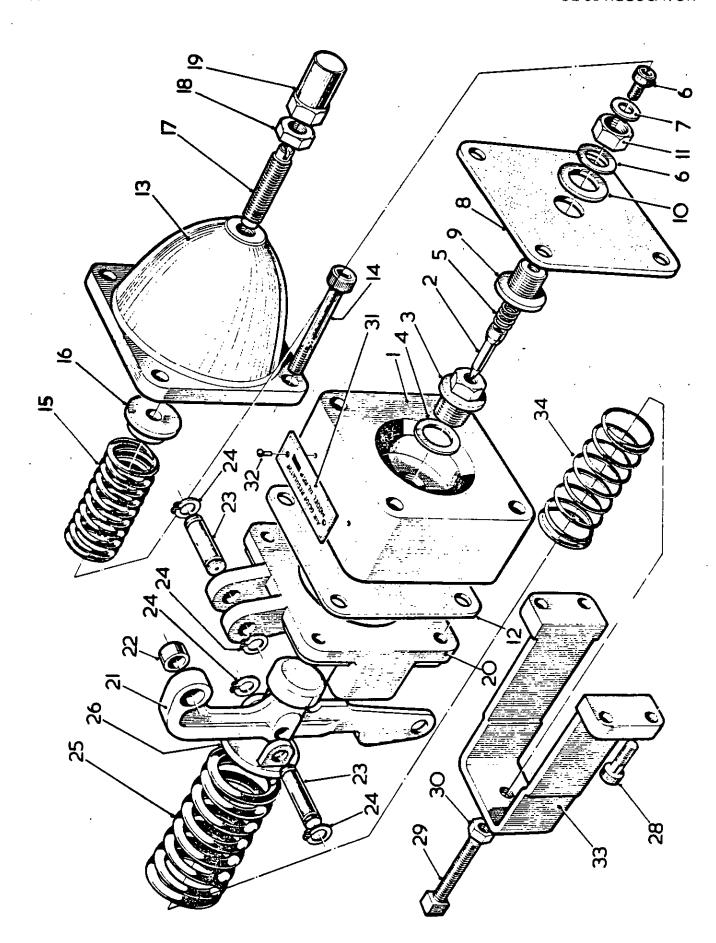
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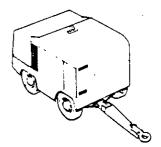
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| UL 88 Linkage | Page 4 |
| Oil Temp By-Pass Valve | Page 5 |
| Primary Oil Separator | Page 6 & 7 |
| Secondary Oil Separator | Page 8 - 9 |
| Oil Filter | Page 10 - 13 |
| Radiator & Oil Cooler | Page 12 - 13 |
| Air Cleaner | Page 14 - 15 |
| Instrument Panel | Page 16 - 1 |
| Oil Pump Relief Valve | Page 18 |
| Parts Not Illustrated | Page 19 |



| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|--------------------------------------|--|--|---|
| 1 2 3 4 5 6 7 8 | FUEL TANK Fuel Tank Pipe Plug Fuel Tank Cap Fuel Tank Cushion Fuel Lever Sender Unit Screws Fuel Tank Outlet Adaptor Fuel Tank Strap Fuel Tank Strap Locknut | T2K4819 \[\frac{1}{4} \] BSPT T2EOA9030 3/16" x 2" x 4" T2V8827 4BA x 3/8" 2W56976 2W48580 3/8" UNC | 1 2 1 4 1 6 1 2 4 |



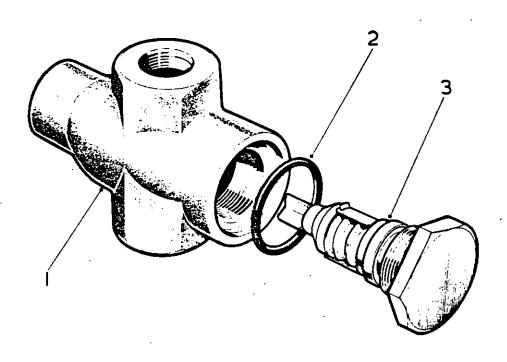


| UL88 Regulator Body | | | |
|--|---------------|--|---------|
| No. Parts indented after an item are included with the item. | 0.75 | 5.55 NG | Tilling |
| UL88 Regulator Body | QTY. | PART NO. | |
| UL88 Regulator Body | BB 1 | TUL88R210BB | |
| # UL88 Regulator Repair Kit | 1 1 | 2R15427P2 | , 1 |
| 2 UL88 Regulator Metering Pin 2W32936 3 UL88 Regulator Metering Pin Seat 2W31748P2 4 UL88 Regulator Metering Pin Seat Gasket T2V4912 5 UL88 Regulator Metering Pin Spring PP607 6 UL88 Regulator Socket Head Set Screw 5/16" - 24x 7 UL88 Regulator Set Screw Gasket X1108T20 8 UL88 Regulator Top Cover Diaphragm 2W37087 9 UL88 Regulator Top Cover Diaphragm Bolt 2W32937 10 Top Cover Diaphragm Washer 1W1619P1 11 Top Cover Diaphragm Bolt Nut 2W32938 12 UL88 Regulator Bottom Cover Diaphragm 2W34874 13 UL88 Regulator Top Cover 2W34874 14 UL88 Regulator Top Cover Set Screw 7/16"-14 x 15 UL88 Regulator Pilot Valve Spring PP412 16 UL88 Regulator Pilot Valve Spring Seat 2W90675 17 UL88 Regulator Pilot Valve Adjusting Screw 2W26388 18 Pilot Valve Adjusting Screw Lock Nut 2W12826P 20 UL88 Regulator Bottom Cover 2R17467P1 21 UL88 Regulator Bottom Cover <td>1</td> <td>UL88 - 200</td> <td></td> | 1 | UL88 - 200 | |
| UL88 Regulator Metering Pin Seat 2W31748P2 UL88 Regulator Metering Pin Seat Gasket UL88 Regulator Metering Pin Spring PP607 UL88 Regulator Socket Head Set Screw 5/16" - 24 × | 1 1 | 2W32936 | 2 |
| 4 UL88 Regulator Metering Pin Seat Gasket T2V4912 5 UL88 Regulator Metering Pin Spring PP607 6 UL88 Regulator Socket Head Set Screw 5/16" - 24 x 7 UL88 Regulator Set Screw Gasket X1108T20 8 UL88 Regulator Top Cover Diaphragm 2W37087 9 UL88 Regulator Top Cover Diaphragm Bolt 2W32937 10 Top Cover Diaphragm Washer 1W1619P1 11 Top Cover Diaphragm Bolt Nut 2W32938 12 UL88 Regulator Bottom Cover Diaphragm 2W34874 13 UL88 Regulator Top Cover 2R15430 14 UL88 Regulator Top Cover Set Screw 7/16"-14 x 15 UL88 Regulator Pilot Valve Spring PP412 16 UL88 Regulator Pilot Valve Adjusting Screw 2W26388 18 Pilot Valve Adjusting Screw Lock Nut 2W46062 19 UL88 Regulator Bottom Cover 2R17467P1 20 UL88 Regulator Bottom Cover 2R17467P1 21 UL88 Regulator Bottom Cover 2R17467P1 21 UL88 Regulator Shaft 2W36387 24 UL88 Regulator Retaining Ring 2W32 | 1 1 | 2W31748P2 | |
| 5 UL88 Regulator Metering Pin Spring PP607 6 UL88 Regulator Socket Head Set Screw 5/16"-242 7 UL88 Regulator Set Screw Gasket X1108T20 8 UL88 Regulator Top Cover Diaphragm 2W37087 9 UL88 Regulator Top Cover Diaphragm Bolt 2W32937 10 Top Cover Diaphragm Washer 1W1619P1 11 Top Cover Diaphragm Bolt Nut 2W32938 12 UL88 Regulator Bottom Cover Diaphragm 2W34874 13 UL88 Regulator Top Cover 2R15430 14 UL88 Regulator Top Cover Set Screw 7/16"-14 x 15 UL88 Regulator Pilot Valve Spring PP412 16 UL88 Regulator Pilot Valve Spring Seat 2W90675 17 UL88 Regulator Pilot Valve Adjusting Screw 2W26388 18 Pilot Valve Adjusting Screw Lock Nut 2W46062 19 UL88 Regulator Bottom Cover 2R17467P1 20 UL88 Regulator Bottom Cover 2R17498A7 21 UL88 Regulator Lever 2R17498A7 22 UL88 Regulator Shaft 2W37528 23 UL88 Regulator Retaining Ring 2W36387 | 1 1 | | |
| 6 UL88 Regulator Socket Head Set Screw 5/16"-24x 7 UL88 Regulator Set Screw Gasket X1108T20 8 UL88 Regulator Top Cover Diaphragm 2W37087 9 UL88 Regulator Top Cover Diaphragm Bolt 2W32937 10 Top Cover Diaphragm Washer 1W1619P1 11 Top Cover Diaphragm Bolt Nut 2W32938 12 UL88 Regulator Bottom Cover Diaphragm 2W34874 13 UL88 Regulator Top Cover 2R15430 14 UL88 Regulator Top Cover Set Screw 7/16"-14 x 15 UL88 Regulator Pilot Valve Spring PP412 16 UL88 Regulator Pilot Valve Spring Seat 2W90675 17 UL88 Regulator Pilot Valve Adjusting Screw 2W26388 18 Pilot Valve Adjusting Screw Lock Nut 2W46062 19 UL88 Regulator Pilot Valve Adjusting Screw Nut 2W12826P 20 UL88 Regulator Bottom Cover 2R17467P1 21 UL88 Regulator Lever 2R17498A7 22 UL88 Regulator Shaft 2W37528 23 UL88 Regulator Retaining Ring 2W36387 24 UL88 Regulator Retaining Ring <t< td=""><td>1 1</td><td></td><td></td></t<> | 1 1 | | |
| 7 UL88 Regulator Set Screw Gasket. X1108T20 8 UL88 Regulator Top Cover Diaphragm 2W37087 9 UL88 Regulator Top Cover Diaphragm Bolt 2W32937 10 Top Cover Diaphragm Washer. 1W1619P1 11 Top Cover Diaphragm Bolt Nut. 2W32938 12 UL88 Regulator Bottom Cover Diaphragm. 2W34874 13 UL88 Regulator Top Cover. 2R15430 14 UL88 Regulator Top Cover Set Screw. 7/16"-14 x 15 UL88 Regulator Pilot Valve Spring. PP412 16 UL88 Regulator Pilot Valve Spring Seat. 2W90675 17 UL88 Regulator Pilot Valve Adjusting Screw. 2W26388 18 Pilot Valve Adjusting Screw. 2W46062 19 UL88 Regulator Pilot Valve Adjusting Screw. 2W12826P 20 UL88 Regulator Bottom Cover. 2R17467P1 21 UL88 Regulator Lever. 2R17498A7 22 UL88 Regulator Shaft 2W37528 23 UL88 Regulator Retaining Ring. 2W32830 | 3/8" 1 | 5/16'' - 24 x 3/8" | |
| 8 UL88 Regulator Top Cover Diaphragm 2W37087 9 UL88 Regulator Top Cover Diaphragm Bolt 2W32937 10 Top Cover Diaphragm Washer 1W1619P1 11 Top Cover Diaphragm Bolt Nut 2W32938 12 UL88 Regulator Bottom Cover Diaphragm 2W34874 13 UL88 Regulator Top Cover 2R15430 14 UL88 Regulator Top Cover Set Screw 7/16"-14 x 15 UL88 Regulator Pilot Valve Spring PP412 16 UL88 Regulator Pilot Valve Spring Seat 2W90675 17 UL88 Regulator Pilot Valve Adjusting Screw 2W26388 18 Pilot Valve Adjusting Screw Lock Nut 2W46062 19 UL88 Regulator Pilot Valve Adjusting Screw Nut 2W12826P 20 UL88 Regulator Bottom Cover 2R17467PD 21 UL88 Regulator Lever 2R17498A7 22 UL88 Regulator Shaft 2W37528 23 UL88 Regulator Retaining Ring 2W32830 24 UL88 Regulator Retaining Ring 2W32830 | | | |
| 9 UL88 Regulator Top Cover Diaphragm Bolt 2W32937 10 Top Cover Diaphragm Washer. 1W1619P1 11 Top Cover Diaphragm Bolt Nut. 2W32938 12 UL88 Regulator Bottom Cover Diaphragm. 2W34874 13 UL88 Regulator Top Cover. 2R15430 14 UL88 Regulator Top Cover Set Screw. 7/16"-14 x 15 UL88 Regulator Pilot Valve Spring. PP412 16 UL88 Regulator Pilot Valve Spring Seat. 2W90675 17 UL88 Regulator Pilot Valve Adjusting Screw. 2W26388 18 Pilot Valve Adjusting Screw Lock Nut. 2W46062 19 UL88 Regulator Pilot Valve Adjusting Screw Nut. 2W12826P 20 UL88 Regulator Bottom Cover. 2R17467PD 21 UL88 Regulator Lever 2R17498AT 22 UL88 Regulator Shaft 2W37528 23 UL88 Regulator Retaining Ring 2W32830 24 UL88 Regulator Retaining Ring 2W32830 | 1 1 | - | |
| Top Cover Diaphragm Washer | | | |
| Top Cover Diaphragm Bolt Nut | 1 1 | *** | 1 |
| 12 UL88 Regulator Bottom Cover Diaphragm 2W34874 13 UL88 Regulator Top Cover 2R15430 14 UL88 Regulator Top Cover Set Screw 7/16"-14 x 15 UL88 Regulator Pilot Valve Spring PP412 16 UL88 Regulator Pilot Valve Spring Seat 2W90675 17 UL88 Regulator Pilot Valve Adjusting Screw 2W26388 18 Pilot Valve Adjusting Screw Lock Nut 2W46062 19 UL88 Regulator Pilot Valve Adjusting Screw Nut 2W12826P 20 UL88 Regulator Bottom Cover 2R17467P 21 UL88 Regulator Lever 2R17498A 22 UL88 Regulator Lever Bushing 2W37528 23 UL88 Regulator Shaft 2W32830 24 UL88 Regulator Retaining Ring 2W32830 | 1 1 | | |
| 13 UL88 Regulator Top Cover 2R15430 14 UL88 Regulator Top Cover Set Screw 7/16"-14 x 15 UL88 Regulator Pilot Valve Spring PP412 16 UL88 Regulator Pilot Valve Spring Seat 2W90675 17 UL88 Regulator Pilot Valve Adjusting Screw 2W26388 18 Pilot Valve Adjusting Screw Lock Nut 2W46062 19 UL88 Regulator Pilot Valve Adjusting Screw Nut 2W12826P 20 UL88 Regulator Bottom Cover 2R17467P1 21 UL88 Regulator Lever 2R17498A7 22 UL88 Regulator Lever Bushing 2W37528 23 UL88 Regulator Shaft 2W26387 24 UL88 Regulator Retaining Ring 2W32830 | 1 1 | | _ |
| 14 UL88 Regulator Top Cover Set Screw 7/16"-14 x 15 UL88 Regulator Pilot Valve Spring PP412 16 UL88 Regulator Pilot Valve Spring Seat 2W90675 17 UL88 Regulator Pilot Valve Adjusting Screw 2W26388 18 Pilot Valve Adjusting Screw Lock Nut 2W46062 19 UL88 Regulator Pilot Valve Adjusting Screw Nut 2W12826P 20 UL88 Regulator Bottom Cover 2R17467P1 21 UL88 Regulator Lever 2R17498A7 22 UL88 Regulator Lever Bushing 2W37528 23 UL88 Regulator Shaft 2W26387 24 UL88 Regulator Retaining Ring 2W32830 | | | |
| 15 UL88 Regulator Pilot Valve Spring PP412 16 UL88 Regulator Pilot Valve Spring Seat 2W90675 17 UL88 Regulator Pilot Valve Adjusting Screw 2W26388 18 Pilot Valve Adjusting Screw 2W46062 19 UL88 Regulator Pilot Valve Adjusting Screw Nut 2W12826P 20 UL88 Regulator Bottom Cover 2R17467P 21 UL88 Regulator Lever 2R17498A 22 UL88 Regulator Lever Bushing 2W37528 23 UL88 Regulator Shaft 2W32830 24 UL88 Regulator Retaining Ring 2W32830 | | $7/16'' - 14 \times 2\frac{3}{4}$ | |
| 16 UL88 Regulator Pilot Valve Spring Seat 2W90675 17 UL88 Regulator Pilot Valve Adjusting Screw 2W26388 18 Pilot Valve Adjusting Screw Lock Nut 2W46062 19 UL88 Regulator Pilot Valve Adjusting Screw Nut 2W12826P 20 UL88 Regulator Bottom Cover 2R17467P 21 UL88 Regulator Lever 2R17498A 22 UL88 Regulator Lever Bushing 2W37528 23 UL88 Regulator Shaft 2W26387 24 UL88 Regulator Retaining Ring 2W32830 | 1 | 1 | |
| 17 | 1 | | |
| 18 Pilot Valve Adjusting Screw Lock Nut 2W46062 19 UL88 Regulator Pilot Valve Adjusting Screw Nut 2W12826P 20 UL88 Regulator Bottom Cover 2R17467P 21 UL88 Regulator Lever 2R17498A 22 UL88 Regulator Lever Bushing 2W37528 23 UL88 Regulator Shaft 2W26387 24 UL88 Regulator Retaining Ring 2W32830 | 1 | | |
| 19 UL88 Regulator Pilot Valve Adjusting Screw Nut 2W12826P 20 UL88 Regulator Bottom Cover. 2R17467P1 21 UL88 Regulator Lever 2R17498A7 22 UL88 Regulator Lever Bushing 2W37528 23 UL88 Regulator Shaft 2W26387 24 UL88 Regulator Retaining Ring 2W32830 | 1 | | 1 |
| 21 | , | | |
| 22 | _ 1 | 1 | 20 |
| 23 UL88 Regulator Shaft | | 2R17498ATP | 21 |
| 24 UL88 Regulator Retaining Ring 2W32830 | 1 | _ | 22 |
| DDCCA | 2 | | 23 |
| l or III 98 Pagulator Range Spring - Outside PP604 | 4 | | 24 |
| 25 OT99 regulator range phring camping | 1 | PP604 | 25 |
| 26 UL88 Regulator Range Spring Seat | 1 | 1 22 311 | 26 |
| 1 ZB 1 OZOO Duppott Doubt House and a see a finite transfer and a see a | 3.1 4 | $\frac{1}{4}$ " - 20 x $\frac{3}{4}$ " | 28 |
| 25 Minimum Speed 300 10 | | 5/16" - 18 x 2 ³ / ₄ " | 29 |
| | 1 | 5/16" - 18 | 30 |
| 31 UL88 Regulator Name Plate 2R35027 | $\frac{1}{2}$ | | 31 |
| OHOO TEGULATOR TANKS THE OWNER OF THE OWNER | | No. 2. $x \frac{1}{4}$ " | |
| 33 (OLGO RESUMATOR TAMBE OPTIME SUPPORT | 1 1 | 2W31759P1 | 33 |
| 34 UL88 Regulator Range Spring - Inside T2V4677 | 1 | 12V4677 | 34 |

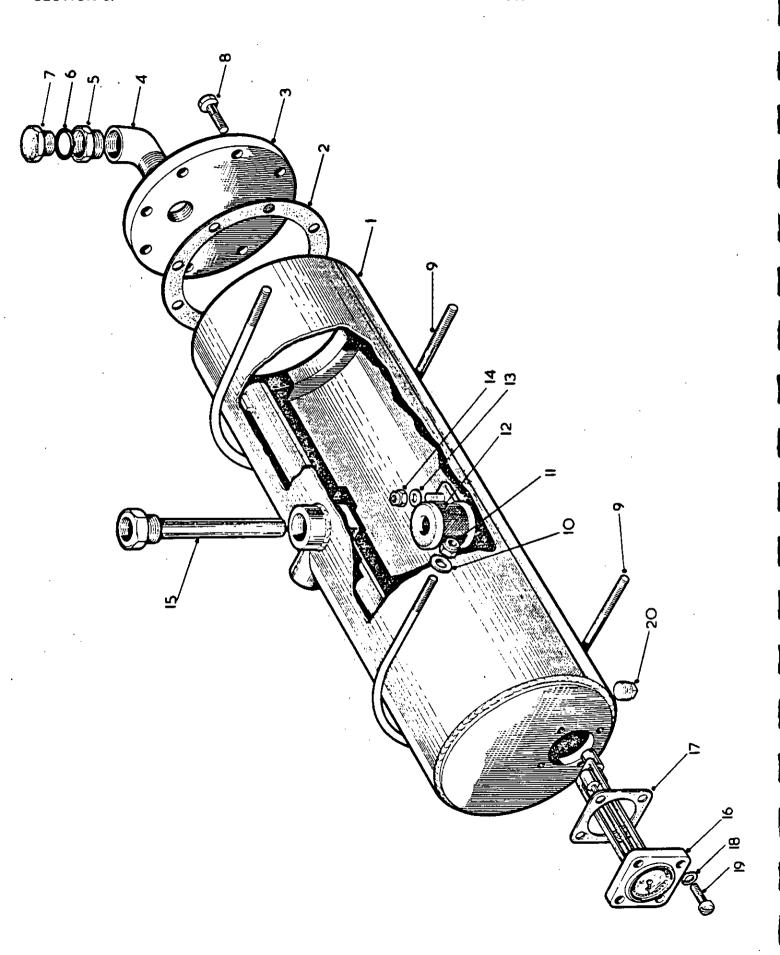
^{*} Not illustrated.

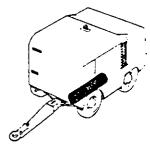
| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|--|--|--|--|
| 1 2 3 4 * 7 8 9 10 11 12 13 | Governor Lever Link Rod Nut Unibal Unibal Unibal Unibal to Lever Set Screw, Nut & Lockwasher UL88 Regulator Manual Speed Latch Assembly UL88 Regulator Manual Speed Latch UL88 Regulator Manual Speed Latch Pin UL88 Regulator Latch Plunger Pull Knob UL88 Regulator Latch Plunger Pull Knob Pin UL88 Speed Latch Plunger Spring UL88 Regulator Mounting Bracket Set Screw, Plain & Lockwasher Mounting Bracket Set Screw & Lockwasher(Brkt to Reg) | X1519T16 \[\frac{1}{4}\] UNF 2W78185 \[\frac{1}{4}\] - 20 x 7/8\] 2W35049 2W35048 2W35046 2W43729 094 x \[\frac{1}{2}\] PP232 T2K4790 7/16\] UNC x 1\] \[\frac{1}{2}\] UNC x 1\] | 1 2 1 1 1 1 1 1 1 2 |

* Not illustrated.

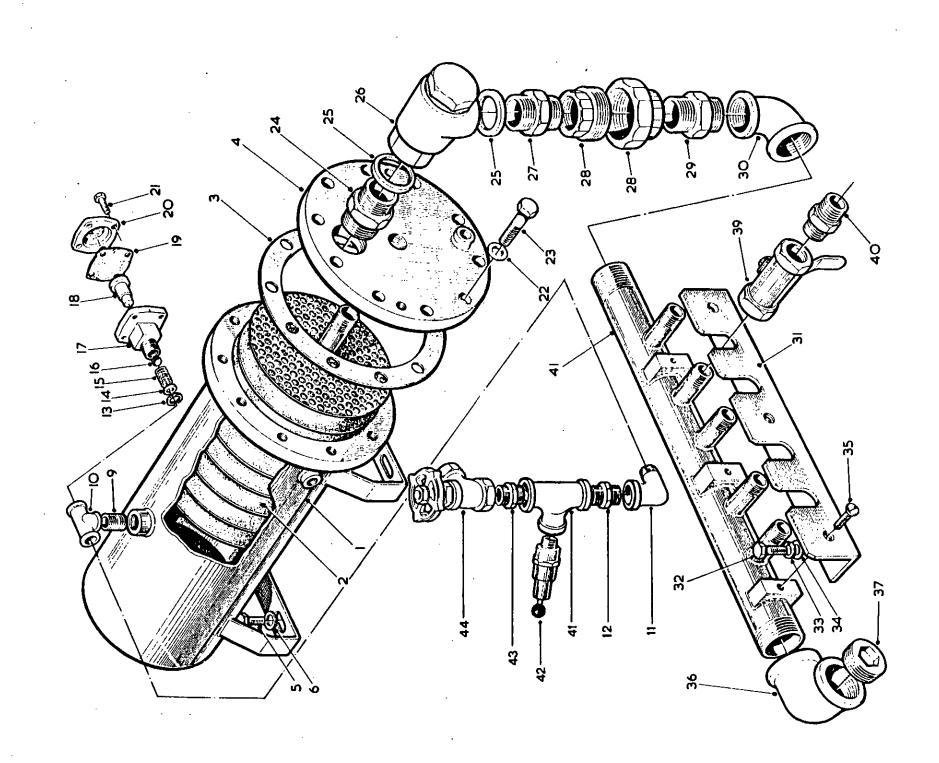


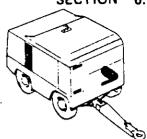
| Illus. No. | Parts indented after an item are included with the item | Part Number | Qty. |
|---------------|---|----------------|------|
| | OIL TEMPERATURE BY-PASS VALVE COMPLETE | 2W40886 | 1 1 |
| 1 2 | By - Pass Valve Body By - Pass Valve "O" Ring | X15141220C | 1 |
| 3 | By - Pass Valve | 2W40885 | 1 |





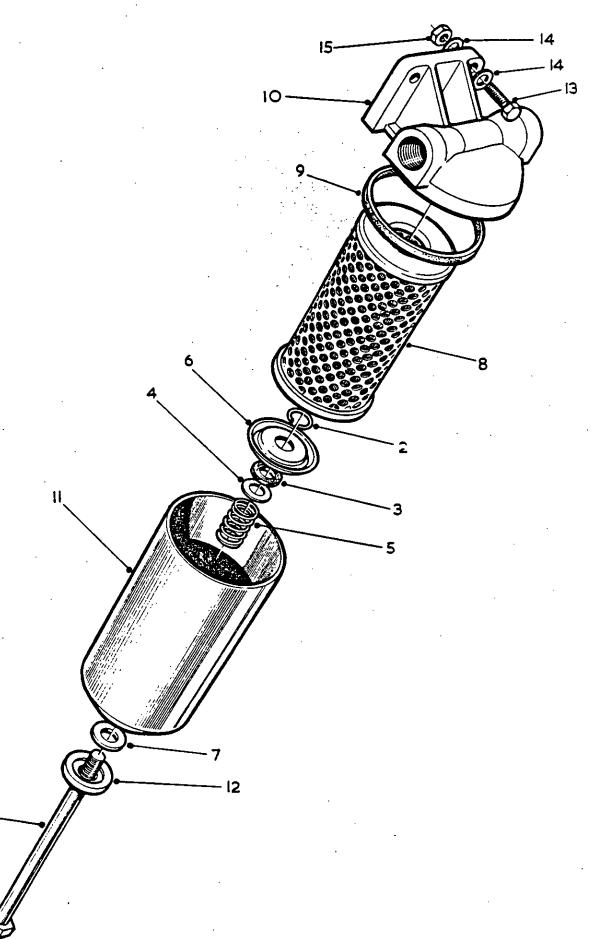
| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|---|---|---|--|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | PRIMARY OIL SEPARATOR TANK Oil Separator Tank to Cover Gasket Primary Oil Separator Tank Cover Oil Filler Street Elbow - Reducing Oil Filler Hole Adaptor Oil Filler Hole "O" Ring Oil Filler Hole Plug Primary Oil Separator Tank Cover Set Screw Primary Oil Separator Tank Strap Primary Oil Separator Tank Strap Primary Oil Separator Tank Strap Nut Primary Oil Separator Filter Screen Assembly Oil Filter Screen Bracket Washer Oil Filter Screen Assembly Locknut Primary Separator Tank Outlet Pipe Assembly Primary Separator Tank Oil Level Gauge Primary Separator Tank Oil Level Gauge Gasket Primary Separator Tank Oil Level Gauge Lockwasher | T2N1094 2W48729 2W48724P1 1½" x 1¼" BSP 2R26539TP X1514T214C 2W48777TP 5/8" - 11 x 1½" 2W48580 3/8" 3/8" UNF 2R26531 2W48723 3/8" - 16 T2V5459 2R17410 T2T4949 5/16" x .435 od. | 1 1 1 1 1 8 2 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 19 20 | Primary Separator Tank Oil Level Gauge Set Screw Pipe Plug | 5/16" - 18 x 7/8" ½" BSP | 4 2 |





| Illus. | NAME OF PART | DART NO | QTY. |
|--------|--|-----------------------------|--------|
| No. | Parts indented after an item are included with the item. | PART NO. | QII. |
| - | CTCOVELENT OUT CEDARATION MANY | T2N2031 | 1 |
| 1 | SECONDARY OIL SEPARATOR TANK | 2R26443 | 1 |
| 2 | Oil Separator Screen Assembly | 2W48579 | 1 |
| 3 | Tank Cover Gasket | T2N2031/1 | 1 |
| 4 | Tank Cover | • | 4 |
| 5 | Setscrew | 3/8" UNC x 1" | 4 |
| 6 | Flat Washer and Spring Washer | 3/8" Dia. | _ |
| 9 | Close Nipple | BSPT | 1 |
| 10 | Tee Fitting | 3/4" BSPT | 1 |
| 11 | 90 deg. Male/Female Elbow | 3'' BSPT | 1 |
| 12 | Hex. Nipple | $\frac{3}{4}$ " BSPT | 1 |
| | AUTOMATIC BLOWDOWN VALVE ASSEMBLY | 2W56923 | 1 |
| 13 | Retaining Ring | X1319T12 | 1 |
| 14 | Washer | X1016T113 | 1 |
| 15 | Spring | PP888 . | 1 |
| 16 | Ball. | 9/16" Dia. | 1 |
| 17 | Valve Body | 2W56993 | 1 |
| 18 | Valve Piston | 2W56922 | 1 |
| 19 | Valve Diaphragm | 2W48114 | 1 |
| 20 | Valve Cover | 2W48116 | 1 |
| 21 | Setscrew | 5/16" UNC x 1" | 4 |
| 22 | Flat Washer | 5/8" Dia. | 10 |
| 22 | Setscrew | 5/8" UNC x 2" ht. | 10 |
| 23 | Aeroquip Adaptor | T21320-24-24 | 1 |
| | Dowty Oil Seal | $1\frac{1}{2}$ " Dia. | 2 |
| 25 | Minimum Pressure Valve | T2V8818 | 1 1 |
| 26 | | 1320-24-24 | 1 |
| 27 | Aeroquip Adaptor | 1½" BSP | 1 |
| 28 | Female Union Fitting | 1½" BSPT | i |
| 29 | Hex. Nipple | $2'' - 1\frac{1}{2}''$ BSPT | i |
| 30 | 90 deg. Female Red. Elbow. | T2K4836 | l î |
| 31 | Discharge Pipe Bracket | 3/8" UNC x 1" | 3 |
| 32 | Setscrew | 3/8" Dia. | 3 |
| 33 | Springwasher | 3/8" Dia. | 3 |
| 34 | Flat Washer | | ى ئ |
| 35 | C/sunk Head Setscrew | 3/8" UNC x 1" | ی |
| 36 | 90 deg. Elbow | 2" BSPT | 1 |
| 37 | C/Sunk Head Plug | 2" BSPT | 1 |
| 39 | Hand Valve | T2V8816 | 4 |
| 40 | Hex. Nipple | 3/4" BSPT | 4 |
| 41 | Discharge Pipe | T2K4837 | 1 |
| 42 | Safety Valve | 3/4" BSPT | 1 |
| 43 | Hex. Nipple | 3/4" BSPT | 1 |
| 44 | Hand Valve | $\frac{1}{2}$ " BSPT | 1 |

GYRO - FLO DR - 250-S OIL FILTER



PAGE 11. SECTION 6.

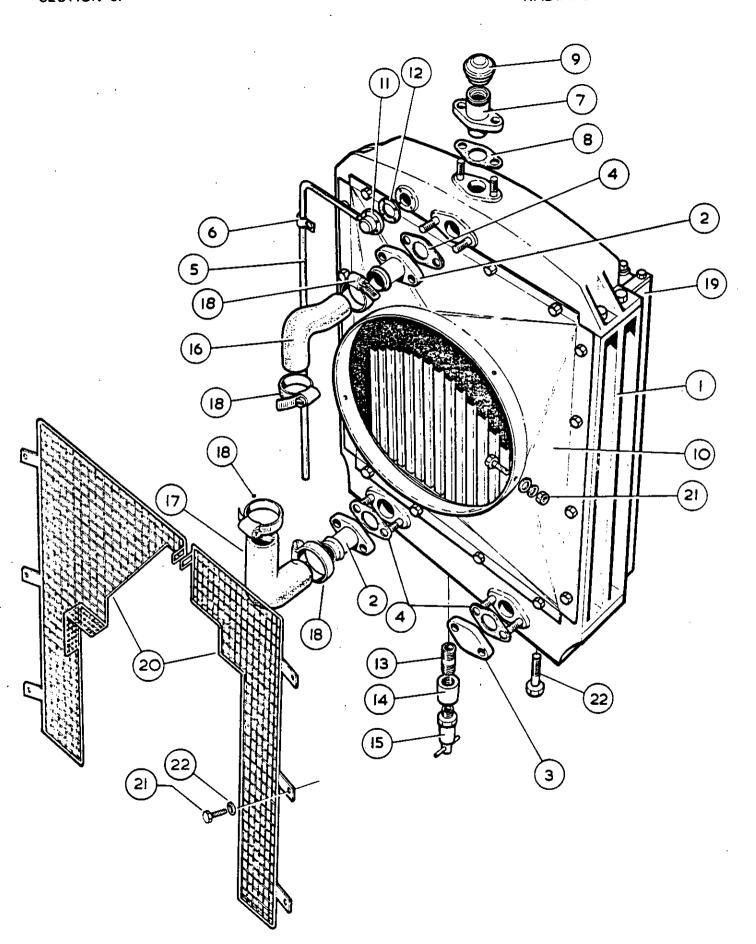


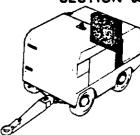
| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|---------------|---|----------------------------------|------|
| | OIL FILTER COMPLETE | T2V8819 | 1 |
| 1 | Filter Screw | T2V8819/ 1 | 1 |
| 2 | Retaining Ring | T2V8819/ 2 | 1 |
| 3 | Fibre Washer | T2V8819/ 3 | 1 |
| 4 | Steel Washer | T2V8819/ 4 | 1 |
| 5 | Spring | T2V8819/ 5 | lī |
| 6 | End Plate | T2V8819/6 | 1 |
| 7 | Washer | T2V8819/ 7 | 1 |
| 8 | Element | T2V8819/8 | 1 |
| 9 | Gasket | T2V8819/9 | 1 |
| 10 | Cover | T2V8819/10 | 1 |
| 11 | Body | T2V8819/11 | 1 |
| 12 | End Cover | T2V8819/12 | 1 |
| 13 | | $5/16''UNC \times \frac{3}{4}''$ | 2 |
| 13 14 | Set Screw | 5/16" | 2 |
| | Spring Washer | 5/16" UNC | 2 |
| 15 * | Hex. Nut | T2T5308 | 1 |
| * | Filter Bracket Element Replacement Kit | T2V8820 | 1 |

* Not illustrated.

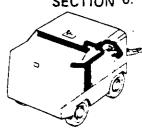
Always give the serial number of your compressor.

PAGE 12. SECTION 6.



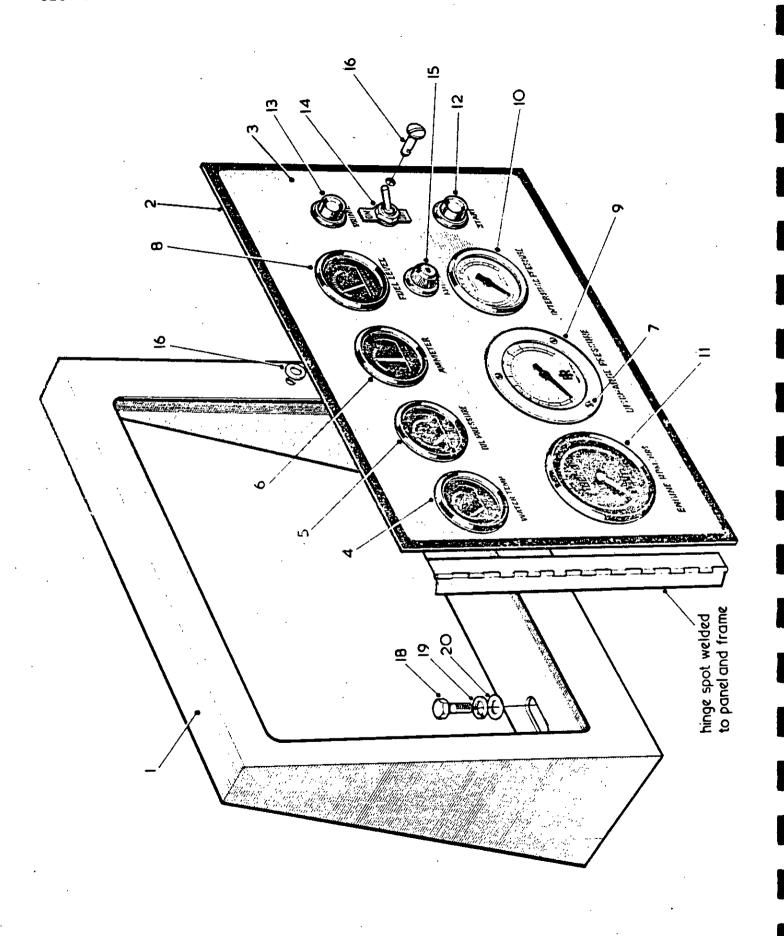


| | | <u> </u> | |
|----------|--|--|------------|
| Illus. | NAME OF PART | • | |
| No. | Parts indented after an item are included with the item. | PART NO. | QTY. |
| | | | |
| | RADIATOR & OIL COOLER COMPLETE | T2T5313 | 1 |
| | RADIATOR COMPLETE | T2T5313/ 1 | 1 |
| 1 | Side Standard | T2T5313/ 2 | 2 |
| 2 | Water Pipe | T2T5313/ 3 | 2 |
| 3 | Blank Flange | T2T5313/ 4 | 1 |
| 4 | Joint - Water Pipe & Blank Flange | T2T5313/5 | 3 |
| 5 | External Overflow Pipe | T2T5313/ 6 | 1 |
| 6 | Overflow Pipe Clip | · T2T5313/ 7 | 2 |
| * | Internal Overflow Pipe Assembly | T2T5313/ 8 | 1 1 |
| 7 | Filler Assembly | T2T5313/ 9 | 1 |
| 8 | Joint - Filler Connection | T2T5313/10 | |
| 9 | Filler Cap | T2T5313/11 | 1 |
| * | Filler Cap Washer | T2T5313/12 | ī |
| 10 | Fancowl | T2T5313/13 | i |
| 11 | Relief Valve | T2T5313/14 | 1 |
| 12 | Joint - Relief Valve | T2T5313/15 | 1 |
| # # | Tube Block Complete | T2T5313/16 | 1 |
| * | Top Tube Plate | T2T5313/17 | ; <u> </u> |
| * | Top Tube Plate | T2T5313/18 | 1 |
| * | Bottom Tube Plate | T2T5313/19 | 2 |
| | Joint - Tube Plates | ½"BSPT x 3" | 1 1 |
| 13 | Space Nipple | | (- |
| 14 | Reducing Socket | $\frac{1}{2}$ " x $\frac{1}{4}$ " BSPT | . 1 |
| 15 | Drain Cock | K. 82 | 1 |
| 16 | Radiator Upper Hose | 92312542 | 1 |
| 17 | Radiator Lower Hose | . 92312859 | 1 |
| 18 | Hose Clips | No. 3 | 4 |
| | OIL COOLER COMPLETE. | T2T5313/20 | 1 |
| * | Header Tank - Top | T2T5313/2. | 1 |
| * | Header Tank - Bottom | T2T5313/22 | 1 |
| * | Joint - Header Tank | T2T5313/23 | 2 |
| * | Oil Connection Flange | T2T5313/24 | 2 |
| = | Blank Flange | T2T5313/25 | 2 |
| * | Joint - Oil Connection & Blank Flange | T2T5313/26 | 4 |
| 19 | Side Air Baffle | T2T5313/27 | 2 |
| * | Mounting Bracket | T2T5313/28 | 6 |
| * | Tube Block Complete | T2T5313/29 | 1 |
| * | Tube Stay Complete | T2T5313/30 | 2 |
| * | Air Baffle - Top & Bottom | T2T5313/31 | 2 |
| * | Coverplate for Vent Holes | T2T5313/32 | 1 |
| * | Joint - Coverplate | T2T5313/33 | 1 |
| 20 | Fan Guard | T2K4898 | 1 |
| 21 | Set Screw | 3/8"'UNC x 1" | 7 |
| 22 | Lockwasher | 3/8'' | 7 |
| * | Flat Washer | 3/8'' | 7 |
| * | Hex. Nut | 3/8" UNC | 1 1 |

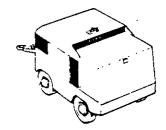


| | OR DARK | | |
|--------|--|----------------------|------|
| Illus. | NAME OF PART | PART NO. | QTY. |
| No. | Parts indented after an item are included with the item. | | |
| | DA 140 FILTER COMPLETE | T2V8831 | 1 |
| , | Filter Body | T2V8831/ 1 | 1 |
| 1 2 | Mounting Bands | T2V8831/ 2 | 2 |
| .5 | Cup Gasket | T2V8831/5 | 1 |
| _ | Element | T2V8831/ 6 | 1 |
| 6 7 | Gasket Washer | T2V8S31/ 7 | 1 |
| 8 | Wing Nut | T2V8831/ 8 | 1 |
| | Baffle. | T2V8831/ 9 | 1. |
| 9 | | T2V8831/10 | 1 |
| 10 | Cup Assembly | T2V8831/11 | 1 |
| 11 | Clamp Assembly | ½''UNC x ¾'' | 4 |
| 12 | Set Screw | <u>1</u> ., | 4 |
| 13 | Washer | <u>1</u> ., | - |
| 14 | Spring Washer | in UNC | 1 1 |
| 15 | Hex. Nut | T2T5234 | 1 |
| 16 | Filter Elbow | 5.1/8" | 1 |
| 17 | Burgess Clip | T2K4900 | . î |
| 18 | Intake Manifold | 5" | . 1 |
| 19 | Jubilee Clip | 20" WG | 1 |
| 20 | Restriction Indicator | 1/8'BSPT x 1" | • |
| 21 | Space Nipple | 5/16" UNC x 5/8' | |
| 22 | Set Screw | 3" Dia. | · • |
| 23 | Jubilee Clip | t . | ; 1 |
| 24 | Rubber Hose | T2V4704-4 | 1 |
| 25 | Jubilee Clip | 3" Dia. | 1 1 |
| 26 | Jubilee Clip | 4" Dia. T2V4704-3 | 1 1 |
| 27 | Rubber Hose | | 1 |
| 28 | Jubilee Clip | 4" Dia. | 1 1 |
| 29 | Air Intake Elbow | T2K4905 | i - |
| 30 | Set Screw | 3/5"UNC x 4" | 1 1 |
| 31 | Spring Washer | 3/8" | • |
| 32 | Inlet Pipe | T2T5291 | 1 |
| 33 | Jubilee Clip | 3" Dia. | : 1 |
| 34 | Rubber Hose | T2V4704-4 | 1 |
| 35 | Jubilee Clip | 3" Dia. | 1 |
| 36 | Engine Intake Elbow | T2K4906 | 1 |
| 37 | Jubilee Clip | 3'' Dia | 1 |
| * | Smith & Johnson Pipe Clam | 5¼'' OD | 1 |
| * | Air Inlet Hose Connection | 2W30464 | 1 |

^{*}Not illustrated.



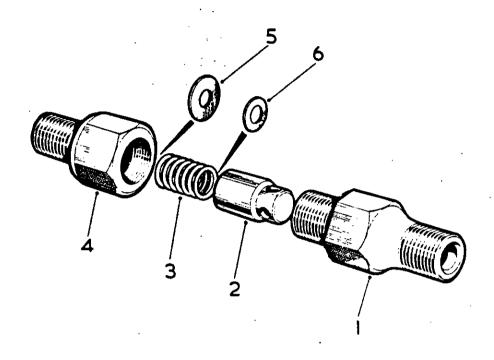
GYRO - FLO DR - 250 - S INSTRUMENT PANEL



| Illus. No. | NAME OF PART Parts indented after an item are included with the item. | PART NO. | QTY. |
|---------------|---|-----------------|------|
| • | Instrument Danel | T2N2025 | 1 |
| 2 | Instrument Panel | T2K4838 | 1 |
| 3 | Instrument Panel Door | T2K4839 | 1 |
| | Instrument Panel Facia | T2V8828 | 1 |
| 4 | Water Temp. Gauge | | 1 |
| 5 | Oil Pressure Gauge | T2AC 7954338 | , , |
| 6 | Ammeter | T2AC 7967377 | 1 2 |
| 7 | Chrome Countersunk Screw | 4BA x ½" | 3 |
| * | Nut | 4BA | 3 |
| | Lockwasher | 4BA | 3 |
| 8 | Fuel Level Gauge | T2V8823 | 1 |
| 9 | Discharge Pressure Gauge | 3'' - 200 psi | 1 |
| 10 | Interstage Pressure Gauge | 2'' - 100 psi | 1 |
| 11 | Tacho/Hour Counter Gauge | T2V8824 | 1 |
| 12 | Start/Overide Push Button | T231872 | 1 |
| 13 | Prime Push Button | T231872 | 1 |
| 14 | On/Off Lever Switch | T2C 2720 | 1 |
| 15 | Warning Light | T2V8834 | 1 |
| 18 | Set Screws | 3/8'' UNC x 1'' | 4 |
| 19 | Spring Washer | 3/8'' | 4 |
| 20 | Flat Washers | 3/8'' | 4 |

* Not illustrated.

Always give the serial number of your compressor.



| | NAME OF PART | PART NO. | QTY. |
|----------------------------|--|---|----------------------------|
| | Parts indented after an item are included with the item. | | |
| 1 2 3 4 5 6 | OIL PUMP RELIEF VALVE ASSEMBLY Oil Pump Relief Valve Body Oil Pump Relief Valve Valve Oil Pump Relief Valve Spring Oil Pump Relief Valve Cap Shim if necessary (to decrease spring load) Shim if necessary (to increase spring load) | 2W43854 TP 2W21461TP 3W21462 X1091PP755 2W43853 X1026T26 X1026T48 | 1 1 1 1 1 1 |

GYRO - FLO DR - 250-S

SPARES

INDEX SECTION 7.

GYRO - FLO DR - 250-S SPARE PARTS BOXES

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| Spare Parts Box No. | TR 250 PCC 239 | Page 1 | |
|---------------------|----------------|--------|--|
| Spare Parts Box No. | TR 250 PCC 240 | Page 1 | |
| Spare Parts Box No. | TR 250 PCC 242 | Page 2 | |

BOX No. TR 250 PCC 239 (Minimum Domestic).

| Description Parts indented after an item are included with the item | Form Number | Qty. |
|---|---|---------------------------------|
| COMPLETE BOX OF SPARES Diaphragm Piston Ring UL-89 Regulator Diaphragm UL-88 Regulator Top Cover Diaphragm UL-88 Regulator Bottom Cover Diaphragm Oil Filler Plug "O" Ring Oil Filter Element Replacement Kit | TR250PCC239 X1440T6A 2W32706 2W37087 2W34874 X1514T214C T2V8820 | 1 2 1 1 1 2 1 |

BOX No. TR 250 PCC 240 (Average Domestic - Minimum Export)

| Description Parts indented after an item are included with the item | Form Number | Qty |
|--|--|---|
| COMPLETE BOX OF SPARES Gasket - Set Diaphragm Piston Ring Oil Filler Plug "O" Ring Oil Filter Element Replacement Kit Low Pressure Rotor Vane - Set High Pressure Rotor Vane - Set Roller Bearing Rotary Shaft Seal Interstage Pressure Gauge Discharge Pressure Gauge Grab Bag (Misc, Bolts, Nuts, etc.) Wood Box | TR250PCC240 TR250PCC241 X1440T6A X1514T214C T2V8820 R250P110 R250P115 2W48538 2W26684 2" - 100 psi 3" - 200 psi T2V8944 | 1 1 4 2 1 1 2 1 1 1 1 |

BOX No. TR 250 PCC 242 (Up to 5 Units Domestic. Up to 2 Units Export).

| The state of the s | | |
|--|----------------|----------|
| Description Parts indented after an item are included with the item | Form Number | Qty. |
| CONTRACTOR DOWN OF CRAFFE | TR250PCC242 | 1 |
| COMPLETE BOX OF SPARES | TR250PCC242 | 1 |
| Gasket - Set | X1440T6A | 4 |
| Diaphragm Piston Ring | T2W26684 | 1 |
| Rotary Shaft Seal | | 1 |
| Compressor Coupling Drive Gear Gasket | 2W32925 | 2 |
| Roller Bearing | 2W48538 | 1 |
| L.P. Cylinder Plate - Inner | 2R26349P1 | |
| L.P. Cylinder Plate - Outer | 2R26350P1 | 1 |
| L.P. Cylinder | 2F11933 | 1 |
| L.P. Rotor Vane - Set | R250P110 | 1 |
| L.P. Rotor Bearing Spacer | 2W48400 | 2 |
| H. P. Cylinder Plate - Inner | 2R26296P1 | 1 |
| H.P. Cylinder Plate - Outer | 2R26295P1 | 1 |
| H.P. Cylinder | T2F11943 | 1 |
| H.P. Rotor | 2H17999TP | . 1 |
| H. P. Rotor Vane - Set | R250P115 | 1 |
| H. P. Rotor Drive Shaft | 2R26259 | 1 |
| H.P. Outer Bearing Snap Ring - Rear | X1318T19 | 1 |
| Oil Pump Drive Gear | 2H18081 | 1 |
| Oil Pump Gear Bushing - Inner | 2W32624 | 1 |
| Oil Pump Driven Gear - Bushed | 2W48492 | 1 |
| UL-89 Regulator Valve Bushing | 2W35030 | 2 |
| UL-89 Regulator Diaphragm Piston | 2W32707 | 1 |
| UL-88 Regulator Repair Kit | UL88-200 | 1 |
| UL-89 Reducing and Relief Valve | 2W48571 | 1 |
| UL88 Range Spring - Outer | PP604 | 1 |
| | T2V4677 | 1 |
| UL-88 Range Spring - Inner | 2R26443T | 1 |
| Oil Separator Screen Assembly - packed | X1514T214C | 2 |
| Oil Filler Hole Plug "O" Ring | T2V4984 | lī |
| Radiator Upper Hose | T2V7753 | 1 |
| Radiator Lower Hose | T2T5276/10 | lī |
| Radiator Cap | 3''-200 psi | lî |
| Air Discharge Pressure Gauge | 2"-100 psi | 1 |
| Interstage Pressure Gauge | T2EOA9030 | li |
| Fuel Tank Cap | T2V8820 | 2 |
| Oil Filter Element Replacement Kit | T2V8944 | 1 |
| Grab Bag(Misc.Bolt, Nuts, Fittings etc) | 1200344 | 1 1 |
| Wood Box | | <u> </u> |