INGERSOLL-RAND®

PORTO OPERA parts of

XHP760 2T MoD

PORTABLE COMPRESSOR CATERPILLAR ENGINE OPERATION AND MAINTENANCE MANUAL with parts catalogue

Doosan purchased Bobcat Company from Ingersoll-Rand Company in 2007. Any reference to Ingersoll-Rand Company or use of trademarks, service marks, logos, or other proprietary identifying marks belonging to Ingersoll-Rand Company in this manual is historical or nominative in nature, and is not meant to suggest a current affiliation between Ingersoll-Rand Company and Doosan Company or the products of either.

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EC DECLARATION OF CONFORMITY

WITH EC DIRECTIVES

89/392/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC, 89/336/EEC

l'RANGE TALE 1

WE

INGERSOLL-RAND COMPANY LIMITED STANDARD PRODUCTS DIVISION **SWAN LANE** HINDLEY GREEN **WIGAN WN2 4EZ** UNITED KINGDOM

DECLARE THAT, UNDER OUR SOLE RESPONSIBILITY FOR MANUFACTURE AND SUPPLY, THE PRODUCT(S)

XHP760 2T MoD

TO WHICH THIS DECLARATION RELATES, IS (ARE) IN CONFORMITY WITH THE PROVISIONS OF THE ABOVE DIRECTIVES USING THE FOLLOWING PRINCIPAL STANDARDS.

EN29001, EN292, EN60204-1, EN1012-1, PN8NTC2, EN50081, EN50082

ISSUED AT HINDLEY GREEN ON 01/01/1998 BY H.SEDDON, QUALITY ASSURANCE MANAGER

H.SEDDON

XHP760 2T MoD	A	WARNING: Electrical shock risk.	WARNING – Pressurised vessel.
	uslimatin.	WARNING - Hot surface.	WARNING - Pressure control.
		WARNING – Corrosion risk.	WARNING - Air/gas flow or Air discharge.
	[c>•<=	WARNING - Pressurised component or system.	WARNING - Hot and harmful exhaust gas.
	X,X _{BAR}	WARNING - Maintain correct tyre pressure. (Refer to the GENERAL INFORMATION section of this manual).	WARNING – Flammable liquid.

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SAFETY XHP760 2T WARNING – Before connecting the tow bar or commencing to tow consult the operation and maintenance manual. WARNING - For operating temperature below 0°C, consult the operation and maintenance manual. MoD WARNING – Do not undertake any maintenance on this machine until the electrical supply is disconnected and the air pressure is totally relieved. WARNING - Consult the operation and maintenance manual before commencing any maintenance.

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XHP760 2T MoD	Do not breathe the compressed air from this machine.		Do not remove the Operating and Maintenance manual and manual holder from this machine.
	Do not stack.		Do not operate the machine without the guard being fitted.
	Do not stand on any service valve or other parts of the pressure system.		Do not operate with the doors or enclosure open.
	Do not use fork lift truck from this side.	XX km/h	Do not exceed the trailer speed limit.
	No naked lights.		Do not open the service valve before the airhose is attached

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SAFETY

SAFETY XHP760 2T Emergency stop. Use fork lift truck from this side only. MoD Tie down point On (power). Lifting point. Off (power). Read the Operation and Maintenance manual before operation or maintenance of this machine is undertaken. When parking use prop stand, handrake and wheel chocks. Contains asbestos.

WARNINGS

Warnings call attention to instructions which must be followed precisely to avoid injury or death.

CAUTIONS

Cautions call attention to instructions which must be followed precisely to avoid damaging the product, process or its surroundings.

NOTES

Notes are used for supplementary information.

SAFETY PRECAUTIONS

General Information

Ensure that the operator reads and understands the decals and consults the manuals before maintenance or operation.

Ensure that the Operation and Maintenance manual, and the manual holder, are not removed permanently from the machine.

Ensure that maintenance personnel are adequately trained, competent and have read the Maintenance Manuals.

Make sure that all protective covers are in place and that the canopy/doors are closed during operation.

The specification of this machine is such that the machine is not suitable for use in flammable gas risk areas. If such an application is required then all local regulations, codes of practice and site rules must be observed. To ensure that the machine can operate in a safe and reliable manner, additional equipment such as gas detection, exhaust spark arestors, and intake (shut-off) valves may be required, dependant on local regulations or the degree of risk involved.

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SAFETY

XHP760 2T MoD

Compressed air

Compressed air can be dangerous if incorrectly handled. Before doing any work on the unit, ensure that all pressure is vented from the system and that the machine cannot be started accidentally.

Ensure that the machine is operating at the rated pressure and that the rated pressure is known to all relevant personnel.

All air pressure equipment installed in or connected to the machine must have safe working pressure ratings of at least the machine rated pressure.

If more than one compressor is connected to one common downstream plant, effective check valves and isolation valves must be fitted and controlled by work procedures, so that one machine cannot accidently be pressurised / over pressurised by another.

Compressed air must not be used for a direct feed to any form of breathing apparatus or mask.

The discharged air contains a very small percentage of compressor lubricating oil and care should be taken to ensure that downstream equipment is compatible.

If the discharged air is to be ultimately released into a confined space, adequate ventilation must be provided.

When using compressed air always use appropriate personal protective equipment.

All pressure containing parts, especially flexible hoses and their couplings, must be regularly inspected, be free from defects and be replaced according to the Manual instructions.

Avoid bodily contact with compressed air.

The safety valve located in the separator tank must be checked periodically for correct operation.

Materials

The following substances *may* be produced during the operation of this machine:

- . brake lining dust
- engine exhaust fumes

AVOID INHALATION

Ensure that adequate ventilation of the cooling system and exhaust gases is maintained at all times.

The following substances are used in the manufacture of this machine and *may* be hazardous to health if used incorrectly:

- . anti-freeze
- . compressor lubricant
- . engine lubricant
- . preservative grease
- rust preventative
- diesel fuel
- battery electrolyte

AVOID INGESTION, SKIN CONTACT AND INHALATION OF FUMES

Components of a non-metallic fibrous material may contain small quantities of white asbestos. When handling, dismantling or assembling these components, the following must be observed:

- . Always operate in a well ventilated area.
- Dispose of waste in a sealed container.
- Use water to damp down dust.
- Avoid inhalation of dust particles.

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Should compressor lubricant come into contact with the eyes, then irrigate with water for at least 5 minutes.

Should compressor lubricant come into contact with the skin, then wash off immediately.

Consult a physician if large amounts of compressor lubricant are ingested.

Consult a physician if compressor lubricant is inhaled.

Never give fluids or induce vomiting if the patient is unconscious or having convulsions.

Safety data sheets for compressor and engine lubricants should be obtained from the lubricant supplier.

Battery

Batteries contain corrosive liquid and produce explosive gas. Do not expose to naked lights. Always wear personal protective clothing when handling. When starting the machine from a slave battery ensure that the correct polarity is observed and that connections are secure.

DO NOT ATTEMPT TO SLAVE START A FROZEN BATTERY SINCE THIS MAY CAUSE IT TO EXPLODE.

Radiator

Hot engine coolant and steam can cause injury. Ensure that the radiator filler cap is removed with due care and attention.

Engine starting fluid (ether)

This machine is titted with an ether cold starting aid.

AVOID INGESTION, INHALATION, HOT SURFACES AND NAKED LIGHTS

Transport

When loading or transporting machines ensure that the specified lifting and tie down points are used.

When loading or transporting machines ensure that the towing vehicle, its size, weight, towing hitch and electrical supply are all suitable to provide safe and stable towing at speeds either, up to the legal maximum for the country in which it is being towed or, as specified for the machine model if lower than the legal maximum.

Before towing the machine, ensure that:-

- the tyres and towing hitch are in a serviceable condition.
- . the canopy is secure.
- all ancillary equipment is stored in a safe and secure manner.

When parking always use the handbrake and, if necessary, suitable wheel chocks.

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SAFETY

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ABBREVIATIONS

Not illustrated Option As required AUS Australia Germany Denmark ĎΚ E Spain France GB Great Britain Italy Norway Netherlands Portugal Sweden Saudi Arabia P S SA SF

Finland

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> CONTENTS / **ABBREVIATIONS**

FOREWORD

XHP760 2T MoD

The contents of this manual are considered to be proprietary and confidential to Ingersoll-Rand and should not be reproduced without the prior written permission of Ingersoll-Rand.

Nothing contained in this document is intended to extend any promise, warranty or representation, expressed or implied, regarding the Ingersoll-Rand products described herein. Any such warranties or other terms and conditions of sale of products shall be in accordance with the standard terms and conditions of sale for such products, which are available upon request.

This manual contains instructions and technical data to cover all routine operation and scheduled maintenance tasks by operation and maintenance staff. Major overhauls are outside the scope of this manual and should be referred to an authorised Ingersoll-Rand service department.

The design specification of this machine has been certified as complying with EC directives. As a result:

- (a) Any machine modifications are strictly prohibited, and will invalidate EC certification.
- (b) This machine must not be used in USA/Canada. (Where EC certification is not valid, and other certification will be required.)

All components, accessories, pipes and connectors added to the compressed air system should be:

- of good quality, procured from a reputable manufacturer and, wherever possible, be of a type approved by Ingersoll-Rand.
- clearly rated for a pressure at least equal to the machine maximum allowable working pressure.
- compatible with the compressor lubricant/coolant.
- accompanied with instructions for safe installation, operation and maintenance.

Details of approved equipment are available from Ingersoll-Rand Service departments.

The use of repair parts other than those included within the Ingersotl-Rand approved parts list may create hazardous conditions over which Ingersoll-Rand has no control. Therefore Ingersoll-Rand cannot be held responsible for equipment in which non-approved repair parts are installed.

Ingersoll-Rand reserves the right to make changes and improvements to products without notice and without incurring any obligation to make such changes or add such improvements to products sold previously.

The intended uses of this machine are outlined below and examples of unapproved usage are also given, however Ingersoll-Rand cannot anticipate every application or work situation that may arise.

IF IN DOUBT CONSULT SUPERVISION.

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This machine has been designed and supplied for use only in the following specified conditions and applications:

- Compression of normal ambient air containing no known or detectable additional gases, vapours. or particles
- Operation within the ambient temperature range specified in the GENERAL INFORMATION section of this manual.

The use of the machine in any of the situation types listed in table 1:-

- a) Is not approved by ingersoil-Rand,
 b) May impair the safety of users and other persons, and
 c) May prejudice any claims made
- against ingersoll-Rand.

TABLE 1

Use of the machine to produce compressed air for:

- a) direct human consumption
- b) indirect human consumption. without suitable filtration and purity checks.

Use of the machine outside the ambient temperature range specified in the GENERAL INFORMATION SECTION of this manual.

Use of the machine where there is any actual or foreseeable risk of hazardous levels of flammable gases or vapours.

Use of the machine fitted with non Ingersoil-Rand approved components.

Use of the machine with safety or control components missing or disabled.

The company accepts no responsibility for errors in translation of this manual from the original English version.

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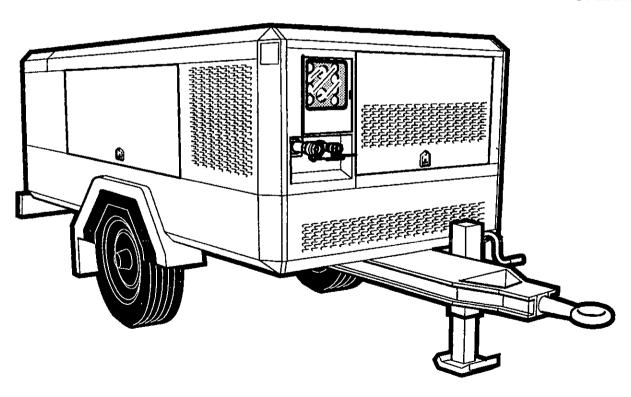
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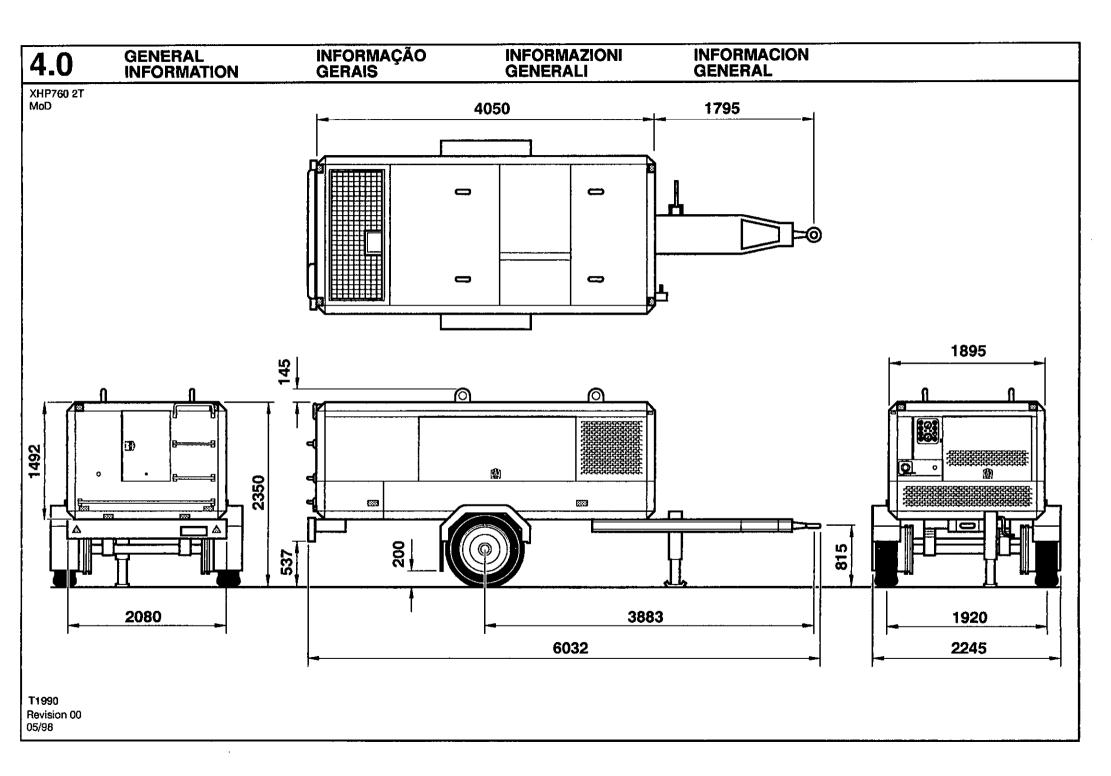


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XHP760 2T MoD

OPERATION AND MAINTENANCE MANUAL





XHP760 2T MoD	COMPRESSOR				
	Model.	XHP760			
	Actual free air delivery.	21,2 m ³ min ⁻¹ .			
	Normal operating discharge pressure.	20,7 bar			
	Maximum allowable pressure	27 bar			
	Safety valve setting	28,5 bar			
	Maximum pressure ratio (absolute)	18,9:1			
	Operating ambient	-10°C to			
	temperature.	+46°C			
	Maximum discharge temperature	120°C			
	Cooling system.	Oil Injection			
	Oil capacity.	100 litres			
	Maximum oil system temperature	120°C			
	Maximum oil system pressure	29,5 bar			
Note: use this for temperatures -23°C to +52°C	LUBRICATING OIL SI (for the specific temperatures).				
	XHP760 DEXRON or DEXRON II automatic transmission fluid or				
	Ingersoll-Rand XHP5 lubricant.	505 synthetic			
	Safety data sheets can be obtained on request from the lubricant supplier.				
	For temperatures specified ambient re Ingersoll-Rand.	outside the ange, consult			

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4.1 GENERAL INFORMATION

GENERAL INFORMATION

XHP760 2T MoD

ENGINE

Type/model.

Caterpillar 3306DITA

Number of cylinders.

34 litres Oil capacity.

Speed at full load.

1850 revs min-1

Speed at idle.

1300

revs min⁻¹.

Electrical system.

24V negative earth

Power available at 1850 revs min⁻¹

231 kW

Fuel tank capacity.

500 litres

SOUND LEVEL DATA

('W' model)

A) To Pneurop code PN8NTC2

Equivalent continuous sound pressure level

Rated load

83dB(A)

No load

81dB(A)

Sound power level (84/533/EEC)

102dB(A)

(Operator position :-

1m from machine)

B) In compliance with 86/188/EEC

Average sound pressure level at 10m to 79/113/EEC 74dB(A)

("Machine only :- at maximum load in open site conditions

Shipping weight. 5300 kg Maximum gross weight. 5700kg

Maximum horizontal towing force.

4714 Kgf

WHEELS AND TYRES

Number of wheels.

Tyre size.

385 / 65 R 22¹/₂

Tyre pressure.

6,4 bar (94lbf in⁻²)

TOWING SPEED

Maximum towing speed

80 km h⁻¹

50 mi h⁻¹

Further information may be obtained by request through ingersoil-Rand customer services department.

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OPERATING INSTRUCTIONS

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COMMISSIONING

Upon receipt of the unit, and prior to putting it into service, it is important to adhere strictly to the instructions given below in *PRIOR TO STARTING*.

Ensure that the operator reads and understands the decals and consults the manuals before maintenance or operation.

Ensure that the position of the emergency stop device is known and recognised by its markings. Ensure that it is functioning correctly and that the method of operation is known.

Before towing the unit, ensure that the tyre pressures are correct (refer to the GENERAL INFORMATION section of this manual) and that the park brake is functioning correctly (refer to the MAINTENANCE section of this manual). Before towing the unit during the hours of darkness, ensure that the lights are functioning correctly (where fitted).

ANCHORLOK BRAKING SYSTEM

1) CHARGING

The trailer air reservoir is charged by the air compressor on the tractor unit. Disconnection from the tractor unit will apply the brakes.

The brake reservoir may be charged by the compressor by opening the valve located on the side of the fan cowl while the machine is operating.

2) SERVICE BRAKES

Application of the brake on the tractor unit applies the trailer brakes.

The brakes default default to park mode when the service lines are disconnected from the tractor unit.

3) SHUNTING

If it is required to move the trailer by a vehicle without air brake connections, the air brakes can be released as follows:

- a) Ensure that the trailer air reciever is charged.
- b) Press the shunt valve located in the control box on the left hand side of the towbar.
- 4) The supply must only be from the supply point approved by the tractor manufacturer for the operation of air brakes. For highway operation, the trailer brake system must be supplied from such an approved point.
- 5) Charging air to the trailer unit must be in the range 5 bar to 7 bar and be free of oil and water content. Rated trailer pressure is 6,3 bar.

Ensure that all transport and packing materials are discarded.

Ensure that the correct fork lift truck stots or marked lifting / tie down points are used whenever the machine is lifted or transported.

When selecting the working position of the machine ensure that there is sufficient clearance for ventilation and exhaust requirements, observing any specified minimum dimensions (to walls, floors etc.).

Adequate clearance needs to be allowed around and above the machine to permit safe access for specified maintenance tasks.

Ensure that the machine is positioned securely and on a stable foundation. Any risk of movement should be removed by suitable means, especially to avoid strain on any rigid discharge piping.

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5.1 OPERATING INSTRUCTIONS

OPERATING INSTRUCTIONS

XHP760 2T MoD Attach the battery cables to the battery(s) ensuring that they are tightened securely.

WARNING: All air pressure equipment installed in or connected to the machine must have safe working pressure ratings of at least the machine rated pressure, and materials compatible with the compressor lubricant (refer to the GENERAL INFORMATION section).

WARNING: If more than one compressor is connected to one common downstream plant, effective check valves and isolation valves must be fitted and controlled by work procedures, so that one machine cannot accidently be pressurised / over pressurised by another.

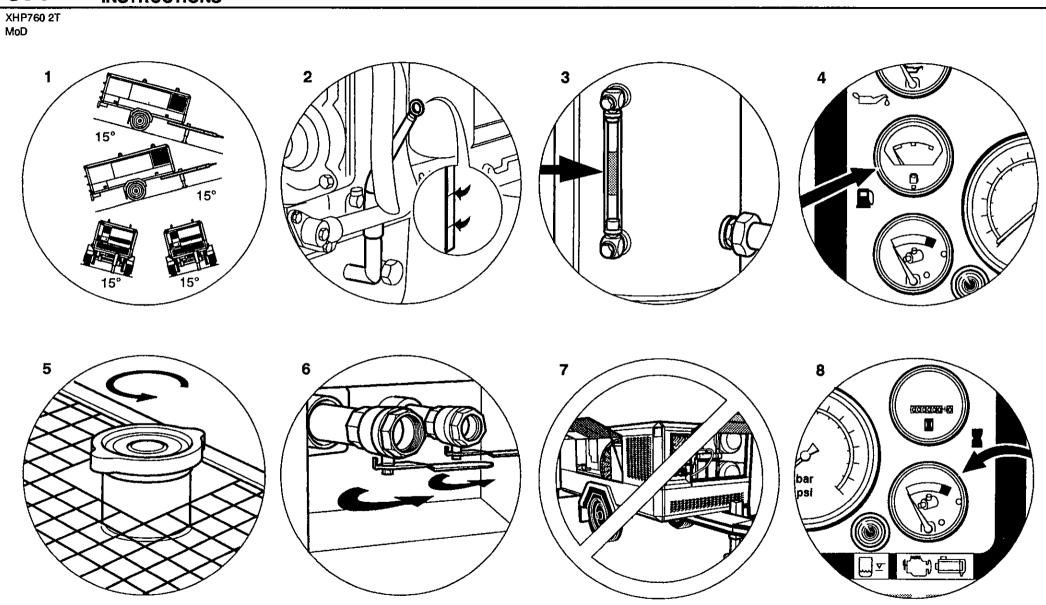
WARNING: If flexible discharge hoses are to carry more than 7 bar pressure then it is recommended that safety retaining wires are used on the hoses.

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PRIOR TO STARTING

 Place the unit in a position that is as level as possible. The design of the unit permits a 15 degree lengthways and sideways limit on out of level operation. It is the engine, not the compressor, that is the limiting factor.

When the unit has to be operated out of level, it is important to keep the engine oil level near the high level mark (with the unit level).

CAUTION: Do not overfill either the engine or the compressor with oil.

- 2. Check the engine lubrication oil in accordance with the operating instructions in the Engine Operator's Manual.
- Check the compressor oil level in the sight glass located on the separator tank.
- Check the diesel fuel level. A good rule is to top up at the end of each working day. This prevents condensation from occurring in the tank.

CAUTION: Use only a No. 2–D diesel fuel oil with a minimum octane number of 45 and a sulphur content not greater than 0,5%.

CAUTION: When refuelling:-

- , switch off the engine.
- . do not smoke.
- . extinguish all naked lights.
- . do not allow the fuel to come into contact with hot surfaces.
- wear personal protective equipment.
- 5. Check the radiator coolant level (with the unit level).

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OPERATING INSTRUCTIONS

OPERATING INSTRUCTIONS

XHP760 2T MoD

- Open the service valve(s) to ensure that all pressure is relieved from the system. Close the service valve(s).
- 7. CAUTION: Do not operate the machine with the canopy/doors in the open position as this may cause overheating and operators to be exposed to high noise levels.
- 8. Check the air restriction indicator(s). Refer to the *MAINTENANCE* section of this manual.

Close the manual relief valve adjacent to the regulator.

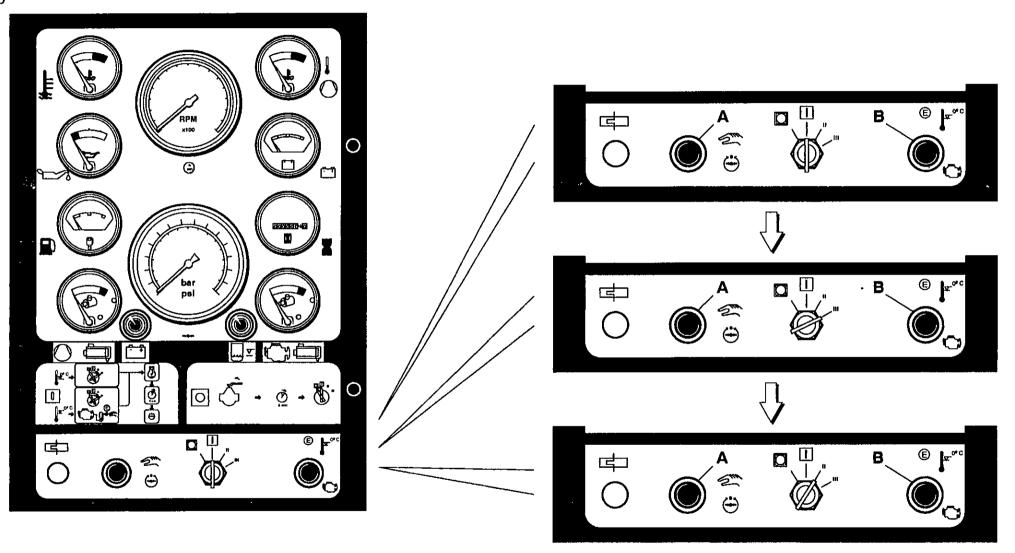
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OPERATING INSTRUCTIONS

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STARTING THE MACHINE

All normal starting functions are incorporated in the key operated switch.

- . Turn the key switch to position 1, the alternator charge light will illuminate.
- Turn the key switch to position 3 (engine start position).

Release to position 2 when the engine starts and the engine oil pressure gauge indicates green. The engine will now be running at a reduced speed.

NOTE: In order to allow the machine to start at a reduced load, a valve, which is operated by a button located on the instrument panel, is incorporated in the regulation system. (The valve automatically returns to the start position when the machine is switched off and air pressure relieved from the system).

- Allow the engine to reach its operating temperature – then press the button (A).
- . At this point in the operation of the machine it is safe to apply *full load* to the engine.

COLD WEATHER STARTING

When starting or operating the machine in temperatures below or approaching 0°C, ensure that the operation of the regulation system, the unloader valve, the safety valve, and the engine are not impaired by ice or snow, and that all inlet and outlet pipes and ducts are clear of ice and snow.

This machine is fitted with an ether cold starting aid.

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OPERATING INSTRUCTIONS

OPERATING INSTRUCTIONS

XHP760 2T MoD

WARNING: Do not use any liquid except Ether when refilling the cold start device.

WARNING: Ether Is highly flammable, do not store in open or unmarked containers. When handling or storing ether, ensure that there is adequate ventilation, no smoking, no naked lights and no inhalation of ether fumes.

In cold weather the following procedure should be adhered to:

- Turn the keyswitch to position 3. (Engine start position) and simultaneously press the control button (B) (Ether cold start). The measured amount of ether is then metered into the engine.
- . Release to position 2 when the engine starts and the engine oil pressure gauge indicates green.
- . Allow the engine to reach its operating temperature then press the button (A).

CAUTION: If the engine does not start, repeat the above procedure after waiting for a minimum of one minute.

If the engine fails to start, refer to the MAINTENANCE section of this manual, and to the ENGINE MANUFACTURER'S MANUAL..

. At this point in the operation of the machine it is safe to apply *full load* to the engine.

STOPPING THE MACHINE

- Close the service valve.
- Allow the machine to run unloaded for a short period of time to reduce the engine temperature.

. Turn the start switch to the θ (off) position.

NOTE: As soon as the engine stops, the automatic blowdown valve will relieve all pressure from the system, except for the discharge plpe / manifold area. This area should be depressurised by opening the discharge valve, keeping clear of any airflow from it.

If the automatic blowdown valve fails to operate, then pressure must be relieved from the system by means of the service valve(s).

WARNING: When relieving system pressure by means of the service valve(s), a small amount of pressure will remain in the system. No maintenance work should be carried out whilst this situation exists. This pressure may be relieved by slowly operating the manual blowdown valve.

CAUTION: Never allow the machine to stand idle with pressure in the system.

EMERGENCY STOPPING

In the event that the unit has to be stopped in an emergency, TURN THE KEY SWITCH LOCATED ON THE INSTRUMENT PANEL TO THE 0 (OFF) POSITION.

RE-STARTING AFTER AN EMERGENCY

If the machine has been switched off because of a machine malfunction, then identify and correct the fault before attempting to re-start.

If the machine has been switched off for reasons of safety, then ensure that the machine can be operated safety before re-starting.

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OPERATING INSTRUCTIONS

5.12 OPERATING INSTRUCTIONS

XHP760 2T MoD

Refer to the PRIOR TO STARTING and STARTING THE UNIT instructions earlier in this section before re-starting the machine.

MONITORING DURING OPERATION

Should any of the safety shut-down conditions occur, the unit will stop. These are:

- . Low engine oil pressure
- . High air discharge temperature
- . High engine water temperature
- Low water level
- . Separator tank thermal fuse failure

CAUTION: To ensure an adequate flow of oil to the compressor at low temperature, never allow the discharge pressure to fall below 3,5 bar.

DECOMMISSIONING

When the machine is to be permanently decommissioned or dismantled, it is important to ensure that all hazard risks are either eliminated or notified to the recipient of the machine. In particular:-

. Do not destroy batteries or components containing asbestos without containing the materials safely.

. Do not dispose of any pressure vessel that is not clearly marked with its relevant data plate information or rendered unusable by drilling, cutting etc

. Do not allow lubricants or coolants to be released into land surfaces or drains.

. Do not dispose of a complete machine without documentation relating to instructions for its use.

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MAINTENANCE XHP760 2T Dally. Oil level. Check and refill as required. MoD Radiator. Refer to the Engine Manufacturer's Manual. Air filter(s). Clean the dust collector box(es). Fuel tank. Refill to prevent condensation. Emergency stop. Test the operation of the device. Weekly/ Safety shutdown Check the electrical connections. 50 hours. system. Engine. Refer to the Engine Manufacturer's Manual. Compressor oil filter. Replace after the first 50 hours from new. Check for correct tension and excessive wear. Re-tension/replace as necessary. Fan belt. Monthly/180 Check for the build up of foreign matter. Clean if necessary by blowing out with air or Oil cooler. hours. pressure wash. Radiator. Check for the build up of foreign matter. Clean if necessary by blowing out with air or pressure wash. Compressor oil filter. Replace after the first 150 hours from new. Hoses. Inspect. Running gear Apply grease to all grease points. 3 months/ Safety shutdown Test the operation of the switches. 250 hours. system. Operate the safety valve manually to verify that the valve mechanism is functioning correctly and that a small amount of air is released. Safety valve. Check the bolts securing the running gear to the chassis and re-tighten where necessary (Refer to the TORQUE SETTING TABLE in this manual). Reset the tab washer. Check and adjust the brakes and brake cables. Adjust and grease the linkages. Drain the air brake reservoir. Running Gear.

XHP760 2T MoD	3, 6, 30 months / 250, 500, 2500 hours.	Engine.	Refer to the Engine Manufacturer's Manual.
	6 months/ 500 hours.	Compressor oil filter.	Replace.
		Hoses. Scavenge line.	Inspect. Clean if necessary.
		Fan drive belt(s).	Replace.
		Pressure system.	Inspect all components for damage, deterioration or leaks. Replace as necessary.
	1 year/1000 hours.	Air filter elements.	Replace.
		Engine breather.	Clean the element.
		Safety shutdown system.	Test the operation of the switches.
		Compressor oil.	Replace.
		Pressure gauge	Remove from the machine and check the calibration. Replace if necessary.
		Pressure regulator	Check that the regulator functions correctly.
		Running gear.	Major brake overhaul - refer to specialist.
	1 year/1000 hours or as defined by local or national legislation.	Separator tank	Fully inspect all external surfaces, welds and fittings. Report any excessive corrosion, mechanical or impact damage, leakage or other deterioration
	2 years/2000 hours.	Safety valve	Remove from the machine and check for correct operating pressure. Adjust as necessary.
		Separator element.	Replace.

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MAINTENANCE

XHP760 2T MoD

4 years/4000 hours.

Hoses.

Replace.

6 years/6000 hours or as defined by local or national legislation. Separator tank

Remove the cover plate and any necessary fittings. Clean the interior thoroughly and inspect all internal surfaces and welds.

As required.

Separator element.

Replace if damaged.

Battery.

Clean and grease terminals.

Fuel filter water separator.

separator.

Refer to the Engine Manufacturer's Manual.

Cooling system.

Add anti-freeze and inhibitors.

ROUTINE MAINTENANCE

This section refers to the various components which require periodic maintenance and replacement.

The SERVICE/MAINTENANCE CHART indicates the various components' descriptions and the intervals when maintenance has to take place. Oil capacities, etc., can be found in the GENERAL INFORMATION section of this manual.

For any specification or specific requirement on service or preventative maintenance for the engine, refer to the Engine Manufacturer's Manual.

Compressed air can be dangerous if incorrectly handled. Before doing any work on the unit, ensure that all pressure is vented from the system and that the machine cannot be started accidentally.

If the automatic blowdown fails to operate, then pressure must be gradually relieved by operating the manual blowdown valve. Suitable personal protective equipment should be worn.

Ensure that maintenance personnel are adequately trained, competent and have read the Maintenance Manuals.

Prior to attempting any maintenance work, ensure that:-

. all air pressure is fully discharged and isolated from the system. If the automatic blowdown valve is used for this purpose, then allow enough time for it to complete the operation.

NOTE: Pressure will always remain in the part of the system between the minimum pressure valve and the discharge valve after operation of the auto blowdown valve.

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XHP760 2T MoD THIS PRESSURE MUST BE RELIEVED BY CAREFULLY;

- (a) DISCONNECTING ANY DOWNSTREAM EQUIPMENT.
- (b) OPENING THE DISCHARGE VALVE TO ATMOSPHERE.

(USE HEARING PROTECTION IF NECESSARY.)

. the machine cannot be started accidently or otherwise, by posting warning signs and/or fitting appropriate anti-start devices.

. all residual electrical power sources (mains and battery) are isolated.

Prior to attempting any maintenance work on a running machine, ensure that:-

. the work carried out is limited to only those tasks which require the machine to run.

. the work carried out with safety protection devices disabled or removed is limited to only those tasks which require the machine to be running with safety protection devices disabled or removed.

. All hazards present are known (e.g. pressurised components, electrically live components, removed panels, covers and guards, extreme temperatures, inflow and outflow of air, intermittently moving parts, safety valve discharge etc.).

. Appropriate personal protective equipment is worn.

. Loose clothing, jewellery, long hair etc. is made safe.

. Warning signs indicating that Maintenance Work is in Progress are posted in a position that can be clearly seen.

Upon completion of maintenance tasks and prior to returning the machine into service, ensure that:-

. the machine is suitably tested.

. all guards and safety protection devices are relitted.

. All panels are replaced, canopy and doors closed.

. Hazardous materials are effectively contained and disposed of.

Prior to opening or removing panels or covers to work *inside* a machine, ensure that:-

. anyone entering the machine is aware of the reduced level of protection and the additional hazards, including hot surfaces and intermittently moving parts.

. the machine cannot be started accidently or otherwise, by posting warning signs and/or fitting appropriate anti-start devices.

PROTECTIVE SHUTDOWN SYSTEM

Comprises:

- . Low engine oil pressure switch
- High engine water temperature switch
- High discharge air temperature switch
- . Low water level switch.
- . Separator tank thermal fuse.

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Low engine oil pressure switch

At twelve month intervals, test the engine oil pressure switch as follows:

- . Remove the switch from the machine.
- Connect it to an independent low pressure supply (either air or oil).
- . The switch should operate at 1,0 bar.

Temperature switch(es)

At three month intervals, test the temperature switch circult(s) as follows:

- Start the machine.
- Disconnect each switch in turn, the machine should shutdown.
- . Re-connect the switch.

NOTE: Do not press the load button.

High engine water temperature switch

At twelve month intervals, test the water temperature switch by removing it from the machine and immersing in a bath of heated oil. The switch should operate at 100°C.

High discharge air temperature switch

At twelve month intervals, test the air discharge temperature switch by removing it from the machine and immersing in a bath of heated oil. The switch should operate at 120°C.

CAUTION: Never remove or replace switches when the machine is running.

Separator tank thermal fuse.

At three month intervals, test the thermal fuse circuit as follows:

- Disconnect the fuse, the unit should shut down.
- . Re-connect the fuse.

Low water level switch.

The low water level switch should be tested annually by draining approximately 10 litres of water from the radiator via the drain plug. The low water level light should then illuminate when the key switch is turned to position

CAUTION: Do not drain water from the radiator whilst the machine is running.

SCAVENGE LINE

The scavenge line runs from the combined orifice/drop tube in the separator tank, to the orifice fitting located in the airend.

Examine the orifice check valve and hoses at every service or in the event of oil carryover into the discharge air.

It is good preventative maintenance to check that the scavenge line and tube are clear of any obstruction each time the compressor lubricant is changed as any blockage will result in oil carryover into the discharge air.

COMPRESSOR OIL FILTER

Refer to the MAINTENANCE CHART in this section for the recommended servicing intervals.

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Removal

WARNING: Do not remove the filter(s) without first making sure that the machine is stopped and the system has been completely relieved of all air pressure. (Refer to STOPPING THE UNIT in the OPERATING INSTRUCTIONS section of this manual).

Clean the exterior of the filter housing and remove the spin-on element by turning it in a counter-clockwise direction.

Inspection

Examine the filter element.

CAUTION: If there is any indication of the formation of varnishes, shellacs or lacquers on the filter element, it is a warning that the compressor lubricating and cooling oil has deteriorated and that it should be changed immediately. Refer to LUBRICATION later in this section.

COMPRESSOR OIL SEPARATOR ELEMENT

Refer to the SERVICE / MAINTENANCE CHART in this section for service intervals.

Removal

WARNING: Do not remove the filter(s) without first making sure that the machine is stopped and the system has been completely relieved of all air pressure. (Refer to STOPPING THE UNIT in the OPERATING INSTRUCTIONS section of this manual).

Disconnect all hoses and tubes from the separator tank cover plate. Remove the drop-tube from the separator tank cover plate and then remove the cover plate. Remove the separator element.

Inspection

Examine all hoses and tubes, and replace if necessary.

Reassembly

Thoroughly clean the orifice/drop tube and filter gasket contact area before reassembly. Install the new element.

Reassembly

Clean the filter gasket contact area and install the new element by screwing in a clockwise direction until the gasket makes contact with the filter housing. Tighten a further 1/2 to 3/4 of a revolution.

CAUTION: Start the machine (refer to PRIOR TO STARTING and STARTING THE UNIT in the OPERATING INSTRUCTIONS section of this manual) and check for leakage before the machine is put back into service.

WARNING

Do not remove the staple from the anti-static gasket on the separator element since it serves to ground any possible static build-up. Do not use gasket sealant since this will affect electrical conductance.

Reposition the cover plate, taking care not to damage the gasket, and replace the cover plate screws tightening in a *criss-cross* pattern to the recommended torque (refer to the *TORQUE SETTING TABLE* later in this section).

Replace the drop-tube and reconnect all hoses and tubes to the separator tank cover plate.

Replace the compressor oil (refer to LUBRICATION later in this section).

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CAUTION: Start the machine (refer to PRIOR TO STARTING and STARTING THE UNIT in the OPERATING INSTRUCTIONS section of this manual) and check for leakage before the machine is put back into service.

COMPRESSOR OIL COOLER AND ENGINE RADIATOR

When grease, oil and dirt accumulate on the exterior surfaces of the oil cooler and radiator, the efficiency is impaired. It is recommended that each month the oil cooler and radiator be cleaned by directing a jet of compressed air, (carrying ii possible a non-flammable cleaning solvent) over the exterior core of the cooler/radiator. This should remove any accumulation of oil, grease and dirt from the exterior core of the cooler so that the entire cooling area can radiate the heat of the lubricating and cooling oil/water into the air stream.

WARNING: Hot engine cootant and steam can cause injury. When adding coolant or antifreeze solution to the engine radiator, stop the engine at least one minute prior to releasing the radiator filler cap. Using a cloth to protect the hand, slowly release the filler cap, absorbing any released fluid with the cloth. Do not remove the filler cap until all excess fluid is released and the engine cooling system fully depressurised.

WARNING: Follow the instructions provided by the antifreeze supplier when adding or draining the antifreeze solution. It is advisable to wear personal protective equipment to prevent skin and eye contact with the antifreeze solution.

AIR FILTER ELEMENT

The air filter should be inspected regularly (refer to the SERVICE/MAINTENANCE CHART) and the element replaced when the restriction indicator shows red or every 1000 hours, whichever comes first. The dust collector box(es) should be cleaned daily (more frequently in dusty operating conditions) and not allowed to become more than half full.

The safety element should be renewed every 3000 hours or every third change of the main element, whichever comes first.

Invomes

CAUTION: Never remove and replace element(s) when the machine is running.

Clean the exterior of the filter housing and remove the filter element by releasing the nut.

If the safety element is to be renewed, thoroughly clean the interior of the filter housing prior to removing the safety element.

Inspection

Check for cracks, holes or any other damage to the element by holding it up to a light source, or by passing a lamp inside.

CAUTION: If inspection reveals damage to the main element, the safety element **must** be replaced.

Check the seal at the end of the element and replace if any sign of damage is evident.

Reassembly

Assemble the new element into the filter housing ensuring that the seal seats properly.

Secure the element in the housing by hand tightening the nut.

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Assemble the dust collector box parts, ensuring that they are correctly positioned.

Before restarting the machine, check that all clamps are tight.

NOTE: In the event that a new filter element is not readily available, the element can be re-used after cleaning. In this case the following procedure must be carried out:

Clean the element by directing a jet of clean, dry compressed air, no more than 5 bar, at an angle of 45 degrees to the outside of the element. Carefully blow any dust from each fold of the element.

Compressed air cleaning is only recommended when a new element is not available.

CAUTION: Safety elements must not be cleaned and re-used.

VENTILATION

Always check that the air inlets and outlets are clear of debris etc.

CAUTION: NEVER clean by blowing air inwards.

COOLING FAN DRIVE

Periodically check that the fan mounting bolt in the fan hub has not loosened. If, for any reason, it becomes necessary to remove the fan or re-tighten the fan mounting bolt, apply a good grade of commercially available thread locking compound to the bolt threads and tighten to the torque value shown in the TORQUE SETTING TABLE later in this section.

The fan belt(s) should be checked regularly for wear and correct tensioning.

FUEL SYSTEM

The fuel tank should be filled daily or every eight hours. To minimise condensation in the fuel tank(s), it is advisable to top up after the machine is shut down or at the end of each working day. At six month intervals drain any sediment or condensate that may have accumulated in the tank(s).

Removing air from the fuel system

If it is suspected that air is present in the fuel system, then, with the machine stopped proceed as follows:

Refill the fuel tank. Loosen the fuel injector nuts. Operate the hand pump located on the engine and observe fuel being pumped out. Continue pumping until a constant flow of fuel is emitted from the loose connections and contains no air bubbles.

Tighten the loose connections and nuts and prime with the hand pump until the fuel pressure gauge pointer (located on the engine) is in the green sector.

FUEL FILTER WATER SEPARATOR

The fuel filter water separator contains a filter element which should be replaced at regular intervals (see the SERVICE/MAINTENANCE CHART).

HOSES

All components of the engine cooling air intake system should be checked periodically to keep the engine at peak efficiency.

At the recommended intervals, (see the SERVICE/MAINTENANCE CHART), inspect all of the Intake lines to the air fifter, and all flexible hoses used for air lines, oil lines and fuel lines.

Periodically inspect all pipework for cracks, leaks, etc. and replace immediately if damaged.

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MAINTENANCE

XHP760 2T MoD

ELECTRICAL SYSTEM

WARNING: Always disconnect the battery cables before performing any maintenance or service.

Inspect the safety shutdown system switches and the instrument panel relay contacts for evidence of arcing and pitting. Clean where necessary.

Check the mechanical action of the components.

Check the security of electrical terminals on the switches and relays i.e. nuts or screws loose, which may cause local hot spot oxidation.

Inspect the components and wiring for signs of overheating i.e. discolouration, charring of cables, deformation of parts, acrid smells and blistered paint.

BATTERY

Keep the battery terminals and cable clamps clean and lightly coated with petroleum jelly to prevent corrosion.

The retaining clamp should be kept tight enough to prevent the battery from moving.

PRESSURE SYSTEM

At 500 hour intervals it is necessary to inspect the external surfaces of the system (from the airend through to the discharge valve(s)) including hoses, tubes, tube fittings and the separator tank, for visible signs of impact damage, excessive corrosion, abrasion, tightness and chafing. Any suspect parts should be replaced before the machine is put back into service.

TYRES/TYRE PRESSURE

See the GENERAL INFORMATION section of this manual.

RUNNING GEAR/WHEELS

Check the wheel nut torque 20 miles (30 kilometres) after refitting the wheels. Refer to the *TORQUE SETTING TABLE* later in this section.

The bolts securing the running gear to the chassis should be checked periodically for tightness (refer to the SERVICE/MAINTENANCE CHART for frequency) and re-tightened where necessary. Refer to the TORQUE SETTING TABLE later in this section.

LUBRICATION

The engine is initially supplied with engine oil sufficient for a nominal period of operation (for more information, consult The Engine Manufacturer's Manual).

CAUTION: Always check the oil levels before a new machine is put into service.

If, for any reason, the unit has been drained, it must be re-filled with new oil before it is put into operation.

ENGINE LUBRICATING OIL

The engine oil should be changed at the engine manufacturer's recommended intervals. Refer to the Engine Manufacturer's Manual.

ENGINE LUBRICATING OIL SPECIFICATION

Refer to the Engine Manufacturer's Manual.

ENGINE OIL FILTER ELEMENT

The engine oil filter element should be changed at the engine manufacturer's recommended intervals. Refer to the Engine Manufacturer's Manual.

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MAINTENANCE

MAINTENANCE

XHP760 2T MoD

COMPRESSOR LUBRICATING OIL

Refer to the SERVICE/MAINTENANCE CHART in this section for service intervals.

NOTE: If the machine has been operating under adverse conditions, or has suffered long shutdown periods, then more frequent service intervals will be required.

WARNING: DO NOT, under any circumstances, remove any drain plugs or the oil filler plug from the compressor lubricating and cooling system without first making sure that the machine is stopped and the system has been completely relieved of all air pressure (refer to STOPPING THE UNIT in the OPERATING INSTRUCTIONS section of this manual).

Completely drain the receiver/separator system including the piping and oil cooler by removing the drain plug(s) and collecting the used oil in a suitable container.

Replace the drain plug(s) ensuring that each one is secure.

NOTE: If the oil is drained immediately after the machine has been running, then most of the sediment will be in suspension and will therefore drain more readily.

CAUTION: Some oil mixtures are incompatible and result in the formation of varnishes, shellacs or lacquers which may be insoluble.

NOTE: Always specify INGERSOLL-RAND compressor lubricating oil (refer to the *PARTS CATALOGUE* section of this manual for details).

COMPRESSOR LUBRICATING OIL SPECIFICATION

Ingersoll-Rand lubricating oil is recommended for use in all Ingersoll-Rand portable compressors.

See the GENERAL INFORMATION section of this manual.

COMPRESSOR OIL FILTER ELEMENT

Refer to the SERVICE / MAINTENANCE CHART in this section for service intervals.

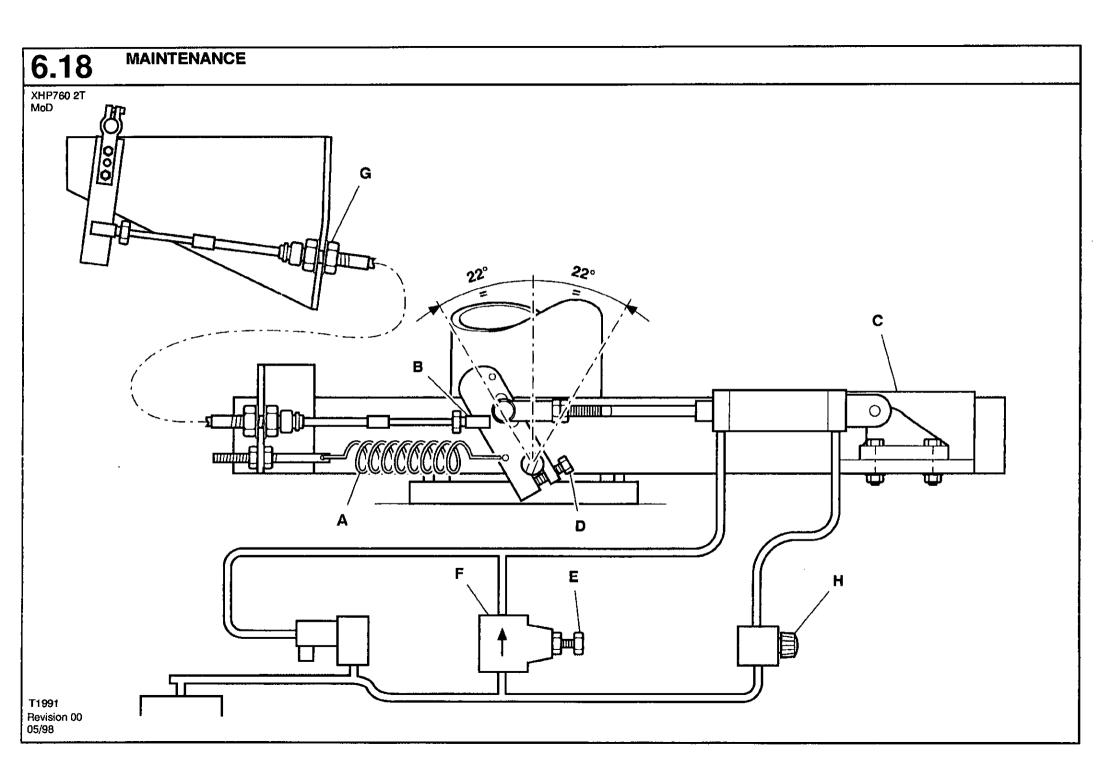
RUNNING GEAR WHEEL BEARINGS

Wheel bearings should be packed with grease every 6 months. The type of grease used should conform to specification MIL-G-10924.

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6 17

MAINTENANCE



SPEED AND PRESSURE REGULATOR ADJUSTMENT

Normally regulation requires no adjustment but if correct adjustment is lost proceed as follows:-

BEFORE STARTING THE MACHINE

With the unit stopped, disconnect ballast spring 'A' and unclip the ball joint 'B' from the butterfly lever. Loosen the two screws securing bracket 'C' to main bracket.

With butterfly valve held closed, position the lever approximately 22° before vertical and tighten with screw 'D'.

Hold the butterfly lever in the closed position and with the the air cylinder fully contracted tighten the screws holding bracket 'C' to the main bracket.

Reconnect the ballast spring 'A' and the control cable ball joint 'B'.

Start engine: Note receiver pressure. Warm up pressure should be 3,5-5,0 bar (50-70 p.s.i.).

To increase warm up pressure, turn air cylinder rod in anti-clockwise direction to open butterfly valve.

To reduce warm up pressure, turn air cylinder rod in clockwise direction to close butterfly valve.

Remove nylon tube at the push in connector on the air cylinder.

When the engine is warmed up, press the 'Load' button to commence normal regulation.

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XHP760 2T MoD Set pressure by adjusting the screw 'E' on the pressure regulator 'F'. Turn the screw clockwise to increase pressure and anticlocwise to reduce pressure.

To adjust top speed ensure the machine is running in a loaded condition.

Set speed using cable locknuts 'G'.

Reconnect nylon tube to the fitting on the control cylinder.

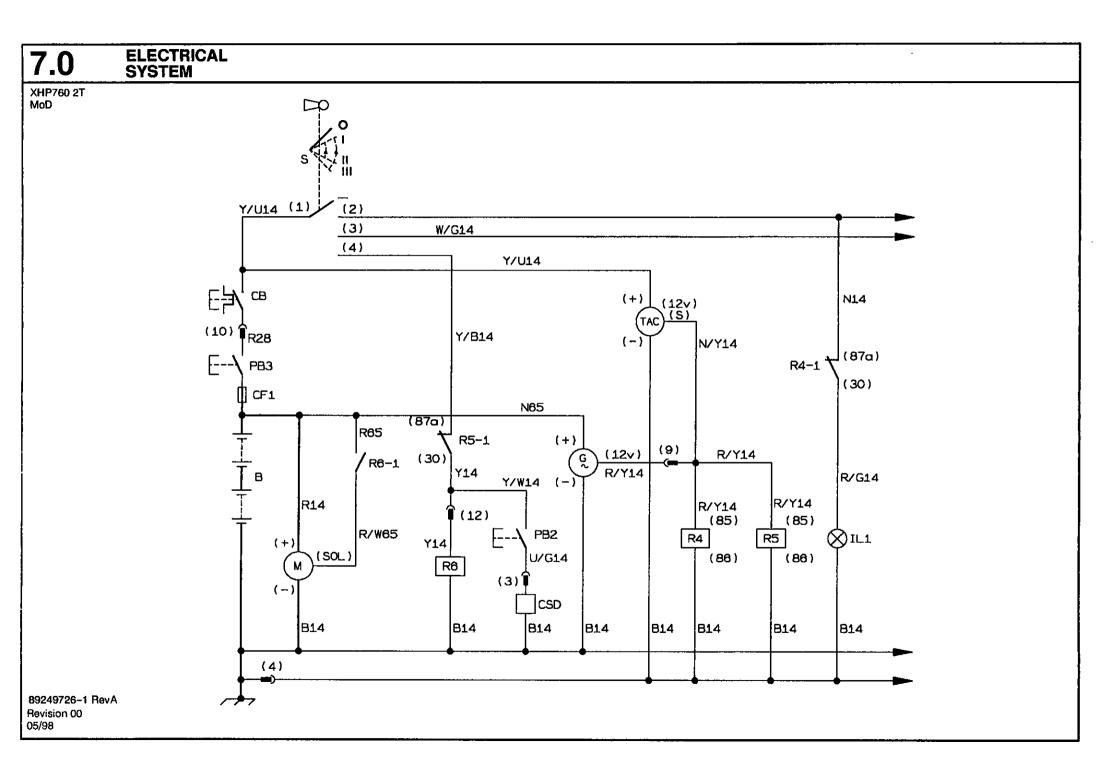
If surging occurs at low discharge air "lows, a light compensating air pressure can be applied behind the control air cylinder piston.

WARNING: Too high an air pressure applied to the piston will cancel out the regulation system and cause the safety valve to blow.

Air Cylinder to bracket	ft ibf 18÷22	Nm 24-30	Airend to engine	ft libf 44-54	Nm 59~73
Air intake to airend	158-192	214-260	Axles to springs	80-90	108-122
Discharge pipe to airend	87~105	118-142	Discharge pipe to separator tank	87-105	118-142
Drive ring to flywheel	29-35	39-47	Exhaust manifold	31-39	42-53
Fan hub to engine pulley	28-34	38-46	Fan mounting plate to engine	130-158	175-214
Lifting bail assembly	126-154	170-208	Lifting bail to frame	140	190
Mounting bracket to airend	234-286	316-387	Pintle box to frame	126-154	170-208
Resilient mount to frame	126-154	170-208	Separator tank cover	158-192	214-260
Separator tank to frame	52-64	70-86	Exhaust silencer to bracket	45-55	61-74
Spring shackles to frame	126-154	170-208	Starter motor terminals	11-13	15~18
Wheel nuts	504	680			

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6.21 MAINTENANCE Torque Values



KEY

В Battery 24 Volt

СВ Pushbutton, reset (circuit

breaker)

CF1 Control fuse CSD Cold start device

G Alternator

IL1 Lamp, alternator charge

M Starter motor

PB2 Pushbutton, cold start

PB3 Pushbutton, emergency stop R4 Relay, alternator charge

R5 Relay, start inhibit

R6 Relay, engine start

S Key-switch Tachometer TAC

В Black

G Green

Pink

Brown

0 Orange

Purple

Red

S Grey

Ų Blue

W White

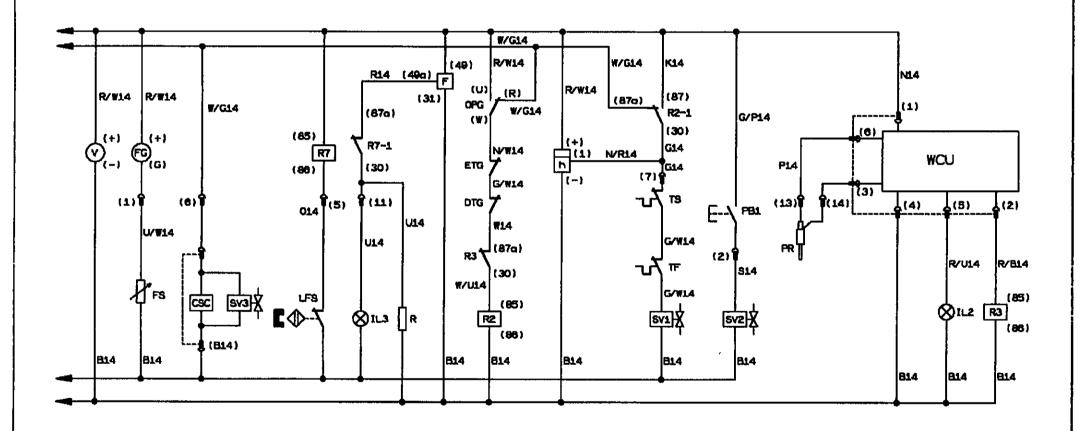
Y Yellow

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ELECTRICAL SYSTEM

7.2 ELECTRICAL SYSTEM

XHP760 2T MoD



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KEY

CSC Cold start compressor

DTG Gauge, discharge temperature

ETG Gauge, engine temperature

F Flasher, fuel warning

FG Gauge, fuel

FS Sender unit, fuel gauge

h Hour meter

IL2 Lamp, engine temperature

IL3 Lamp, fuel warning
LFS Switch, fuel

OPG Gauge, oil pressure
PB1 Pushbutton, load
PR Probe, low water level
R Resistor, flasher
R2 Relay safety shut-down

Relay, safety shut-down
 R3 Relay, low water level
 R7 Relay, fuel warning
 SV1 Solenoid, engine stop
 SV2 Solenoid, load
 SV3 Solenoid, cold start

TF Thermal fuse, separator tank

Air temperature switch (discharge)

V Voltmeter

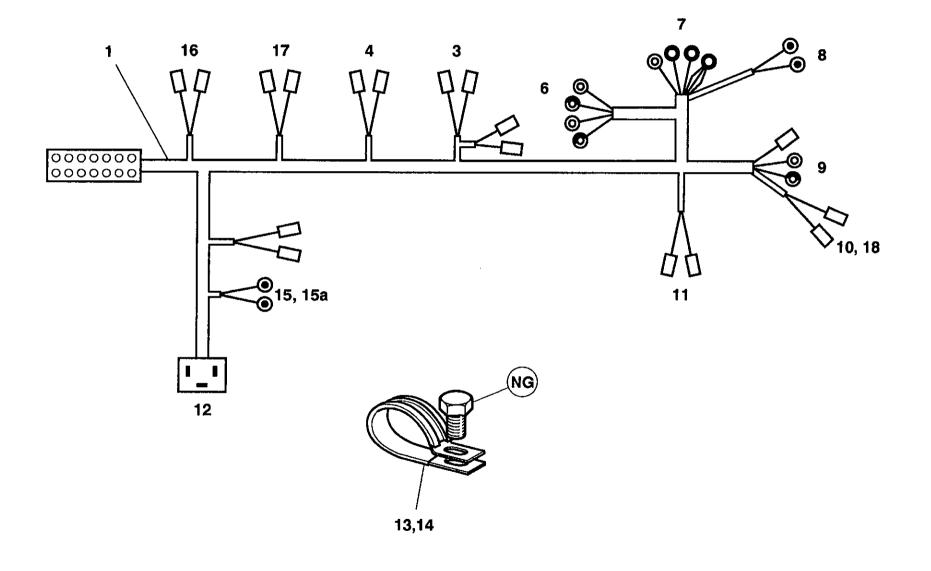
WCU Water level control module

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7.3 ELECTRICAL SYSTEM

7.4 ELECTRICAL SYSTEM

XHP760 2T MoD



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KEY

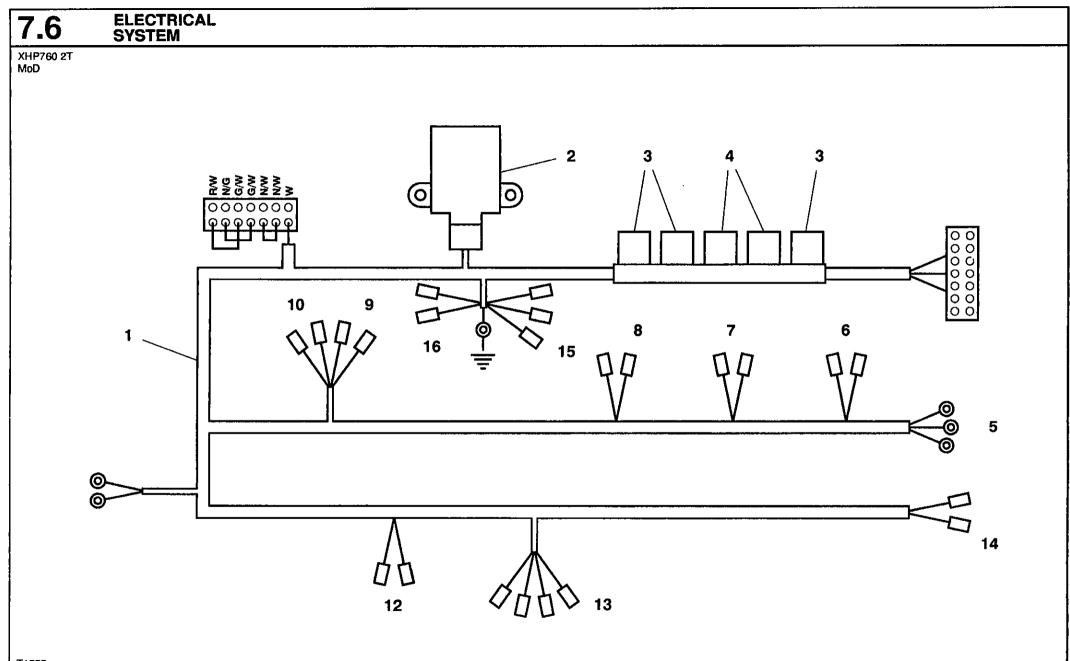
1Harness

- 2 Switch, temperature (discharge pipe)
 3 Switch, temperature
- 3 Switch, temperature (separator tank)
- 4 Sensor, water detection
- 5 Ether, cold start
- 6 Relay, start
- 7 Motor, starter
- 8 Solenoid, stop
- 9 Alternator
- 10 Switch, low fuel level
- 11 Sender unit, fuel gauge
- 12 Solenoid, start/run
- 13 Clip, retaining
- 14 Clip, retaining
- 15 Compressor cold start
- 15a Solenoid valve, cold start
- 16 Lamp, fuel warning
- 17 Pushbutton, emergency stop
- 18 Harness, low fuel

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7.5

ELECTRICAL SYSTEM



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KEY

- Harness, instrument panel
- Relay (Indicator, low water level)
- Relay 24V
- Relay 12V
- Tachometer
- Hourmeter
- Voltmeter
- Gauge, fuel
- Indicator, low water level
- 10 Indicator, no charge
- 11 Circuit breaker
- 12 Button, start/run
- 13 Switch, start
- 14 Switch, cold start
- 15 Flasher, fuel warning
- 16 Resistor, flasher
- 8 G
- Black Green
- K Pink
- N Brown
- 0 Orange
- Р Purple
- R Red
- S Grey
- U
- Blue
- W White
- Yellow

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ELECTRICAL SYSTEM



10 11 12 -

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KEY

- 1 Pressure reducer
- 2 Minimum pressure valve
- 3 Oil cooler
- 4 Temperature bypass valve
- 5 Oil bypass valve
- 6 Oil filter
- 7 Safety valve
- 8 Oil pump
- 9 Butterfly valve
- 10 Compressor
- 11 Engine
- 12 Separator tank



Air



Oil

Air/Oil

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7.9

PIPING AND INSTRUMENTATION

8.0	FAULT FINDING		
XHP760 2T MoD	FAULT	CAUSE	REMEDY
	Engine fails to start.	Low battery charge.	Check the fan belt tension, battery and cable connections.
		Bad earth connection.	Check the earth cables, clean as required.
		Loose connection.	Locate and make the connection good.
		Fuel starvation.	Check the fuel level and fuel system components. Replace the fuel filter if necessary.
		Fuel starvation.	Pump the fuel manually until the fuel pressure gauge shows green.
		Relay failed.	Replace the relay.
		Engine control not in 'run' position.	Check the speed cylinder and stop position.
		Circuit breaker out	Reset the circuit breaker
		Fusible plug blown.	Check the fusible plug on top of the separator tank
		Faulty stop solenoid	Check the stop solenoid
	Engine stops while in service or is reluctant to start.	Low fuel level.	Fill fuel tank and bleed air from fuel system if necessary. (Refer to MAINTENANCE SECTION).

FAULT	CAUSE	REMEDY
Engine starts but stalls when the switch returns to position /.	Electrical fault	Test the electrical circuits.
	Low engine oil pressure.	Check the oil level and the oil filter(s).
	Low water level	Check if the low water lamp is extinguished.
	Faulty relay	Check the relays.
	Faulty key-switch	Check the key-switch.
Engine starts but will not run or engine shuts down prematurely.	Electrical fault.	Test the electrical circuits.
	Low engine oil pressure.	Check the oil level and oil filter(s).
	Safety shut-down system in operation.	Check the safety shut-down switches.
	Fuel starvation.	Check the fuel level and fuel system components. Replace the fuel filter if necessary.
	Switch failure.	Test the switches.
	High compressor oil temperature.	Check the compressor oil level, oil cooler and by-pass valve. Check the fan drive.
	Engine starts but stalls when the switch returns to position /. Engine starts but will not run or engine shuts down	Engine starts but stalls when the switch returns to position i. Low engine oil pressure. Low water level Faulty relay Faulty key-switch Engine starts but will not run or engine shuts down prematurely. Low engine oil pressure. Safety shut-down system in operation. Fuel starvation. Switch failure. High compressor oil

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8.1 FAULT FINDING

8.2	FAULT FINDING			
XHP760 2T MoD	FAULT	CAUSE	REMEDY	
		Water present in fuel system.	Check the water separator and clean if required.	
		Faulty relay.	Check the relay in the holder and replace if necessary.	
	Engine Overheats	Low water level	Check the level and replenish if necessary.	
		Blocked radiator.	Stop the machine and clean the cooling fins with compressed air or steam. Use reduced pressure for cleaning the fins.	
		Reduced cooling air from fan.	Check the fan and the drive belts. Check for any obstruction inside the cowl.	
		Faulty thermostat	Check the thermostat and replace if necessary.	
ĺ	Engine speed too high.	Incorrect throttle arm setting.	Check the engine speed setting.	
		Faulty regulator valve.	Check the regulation system.	
	Engine speed too low.	Incorrect throttle arm setting.	Check the throttle setting.	
		Blocked fuel filter.	Check and replace if necessary.	
		Blocked air filter.	Check and replace the element if necessary.	
		Faulty regulator valve.	Check the regulation system.	
		Premature unloading.	Check the regulation and the operation of the air cylinder.	
	Excessive vibration.	Engine speed too low.	See *Engine speed too low"	

XHP760 2T MoD	FAULT	CAUSE	REMEDY	
, mos	Leaking oil seal.	Improperly fitted oil seal.	Replace the oil seal.	
		Refer also to the Engine	e Manufacturer's Manual.	
	Air discharge capacity too low.	Engine speed too low.	Check the air cylinder and air filter(s).	
		Blocked air cleaner.	Check the restriction indicators and replace the element(s) if necessary.	
		High pressure air escaping.	Check for leaks.	
		Incorrectly set regulation system.	Reset the regulation system. Refer to SPEED AND PRESSURE REGULATION ADJUSTMENT in the MAINTENANCE section of this manual.	
	Compressor overheats.	Low oil level.	Top up the oil level and check for leaks.	
		Dirty or blocked oil cooler.	Clean the oil cooler fins.	
		Incorrect grade of oil.	Use Ingersoll-Rand recommended oil.	
		Defective by-pass valve.	Check the operation of the element and replace if necessary.	
		Recirculation of cooling air.	Move the machine to avoid recirculation.	
		Faulty temperature switch.	Check the operation of the switch and replace if necessary.	
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8.3

FAULT FINDING

8.4	FAULT FINDING			
XHP760 2T MoD	FAULT	CAUSE	REMEDY	
		Reduced cooing air from fan.	Check the fan and the drive belts. Check for any obstruction inside the fan cowl.	
	Excessive oil present in the discharge air.	Blocked scavenge line.	Check the scavenge line, drop tube and orifice. Clean and replace.	
		Perforated separator element.	Replace the separator element.	
		Pressure in the system is too low.	Check the minimum pressure valve or sonic orifice.	
\	Safety valve operates.	Operating pressure too high.	Check the setting and operation of the regulator valve piping.	
		Incorrect setting of the regulator.	Adjust the regulator.	
		Faulty regulator.	Replace the regulator.	
		Inlet valve set incorrectly.	Refer to SPEED AND PRESSURE REGULATION ADJUSTMENT in the MAINTENANCE section of this manual.	
		Loose pipe/hose connections.	Check all pipe/hose connections.	
		Faulty safety valve.	Check the relieving pressure. Replace the safety valve if faulty. DO NOT ATTEMPT A REPAIR.	
	Oil is forced back into the air filter.	Incorrect stopping procedure used	Always employ the correct stopping procedure. Close the discharge valve and allow the machine to run on idle before stopping.	
		Faulty inlet valve.	Check for free operation of the inlet valve(s).	

XHP760 2T MoD	FAULT	CAUSE	REMEDY	
i :		Faulty discharge check valve.	Remove the valve from the discharge pipe and check the operation.	
	Machine goes to full pressure when started.	inlet valve set incorrectly.	Refer to SPEED AND PRESSURE REGULATION ADJUSTMENT in the MAINTENANCE section of this manual.	
	Machine falls to load when the load button is pressed.	Faulty load solenoid.	Replace the solenoid. Check the electrical circuit by feeling for movement whilst depressing the load button.	

8.5

XHP760 2T MoD

INGERSOLL-RAND.

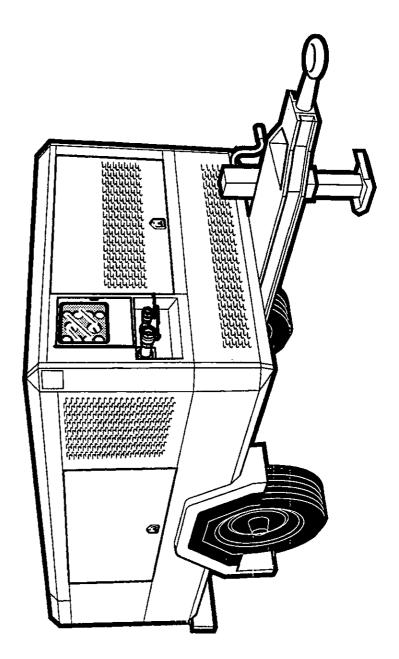
USE ONLY GENUINE INGERSOLL-RAND PARTS

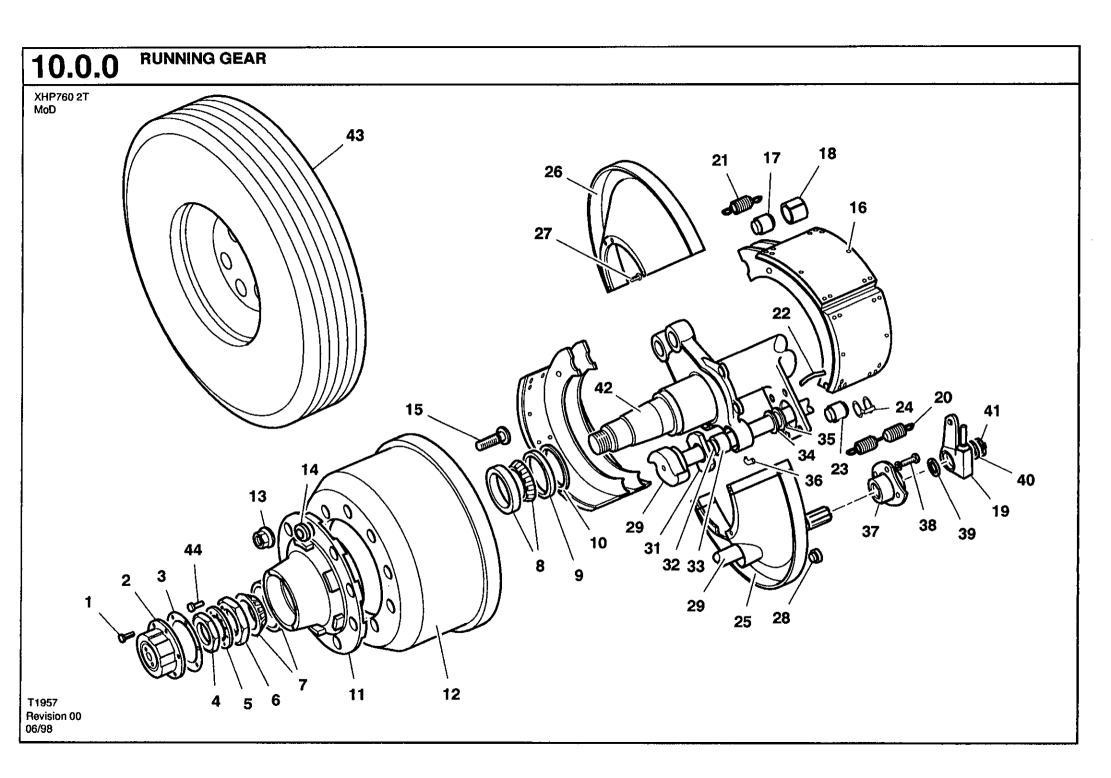
Revision 00 05/98

INSOLL HAND

XHP660 XHP760

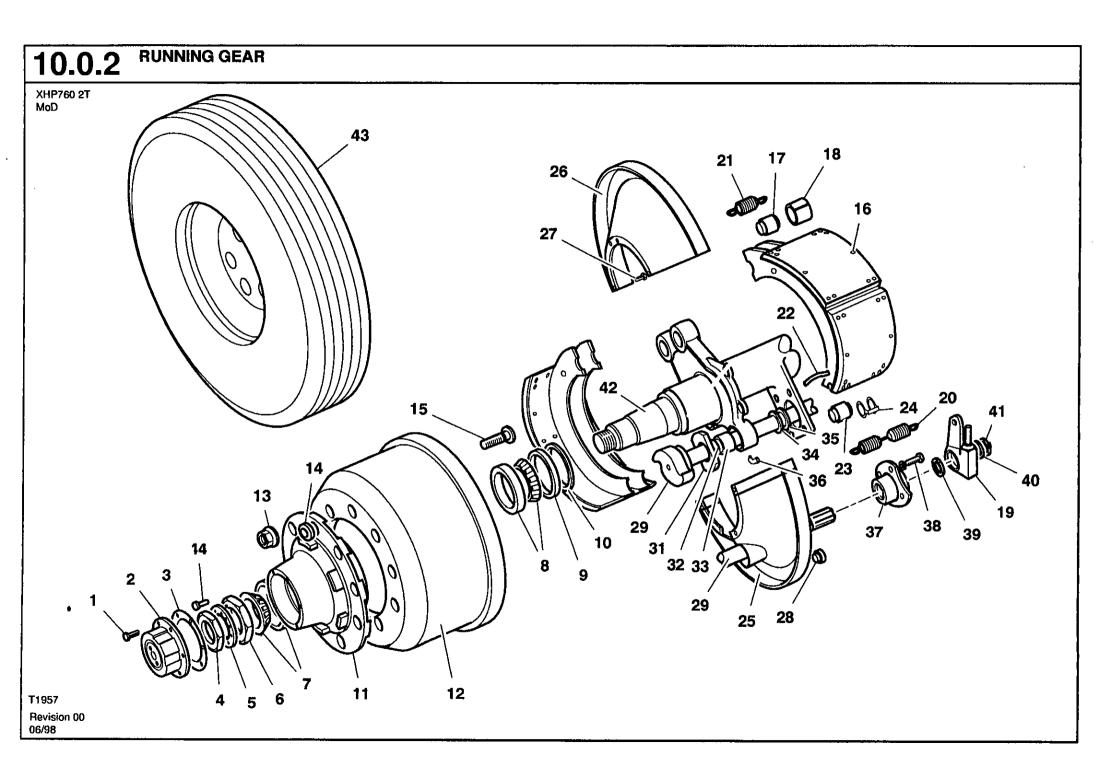
PARTS CATALOGUE





	Item	CPN	Qty	DESCRIPTION	
XHP760 2T	1	89259733	12	Screw	
MoD	2	89259741	2	Cover	
	3	89259758	2	Gasket	
	4	89259766	2	Nut	
	5	89259774	2	Lockwasher	
	6	89259782	2	Locknut	
	7	89259790	2	Bearing	
	8	89259808	2	Bearing	
	9	89259816	2	Seal carrier	
	10	89253824	2	Seal	
	11	89259832	2	Hub	
	12	89259840	2	Drum	
	13	89259857	20	Nut	
	14	89259865	20	Collar	
	15	89259873	20	Stud	
	16	89259881	4	Shoe	
	17	89259899	4	Pin, locating	
	18	89259907	4	Bush	
	19	89260491	4	Adjuster	
	20	89259923	2	Spring	
	21	89259931	2	Spring	
	22	89259949	4	Pin	
	23	89259956	4	Pin	
	24	89259964	4	Retainer	
	25	89259972	2	Guard lower	
	26	89259980	2	Guard upper	
	27	89259998	20	Screw	
	28	89260004	2	Plug	
	29	89260012	1	Shaft LH	
Revision 00 06/98	30	89260020	1	Shaft RH	

10 0 1 RUNNING GEAR



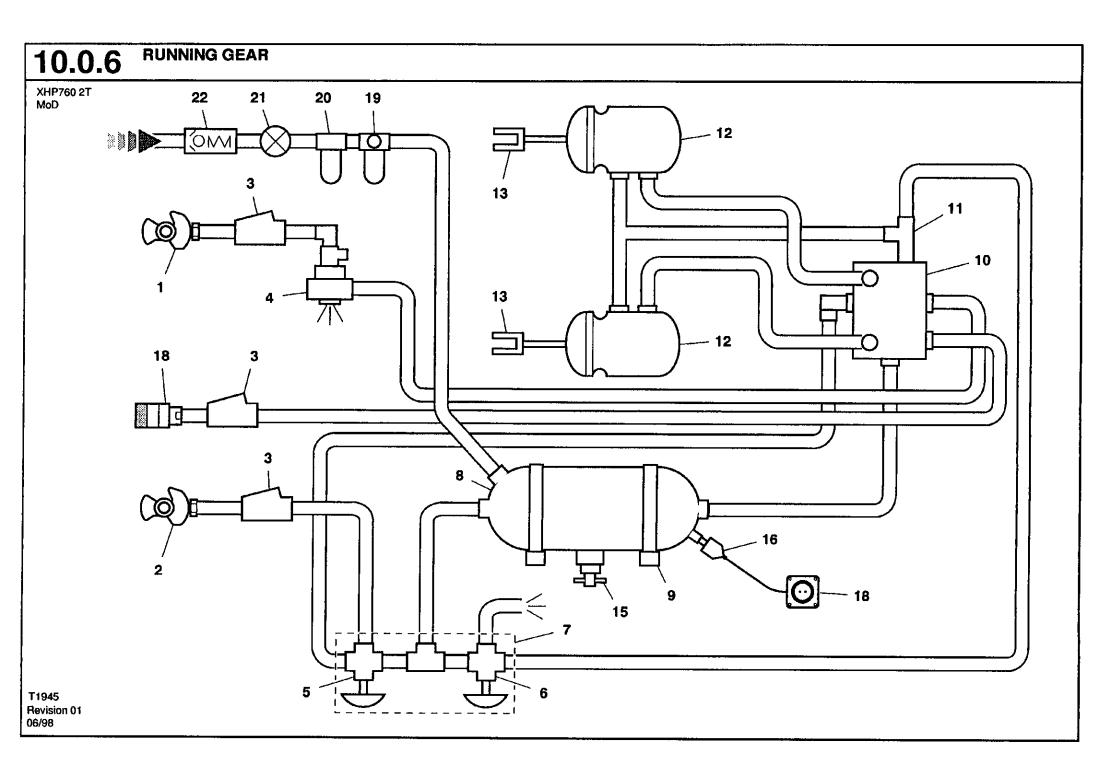
	Item	CPN	Qty	DESCRIPTION
XHP760 2T	31	89260038	2	Seal
MoD	32	89260046	2	'O' Ring
	33	89260053	2	Bush
	34	89260061	2	Seal
	35	89260079	2	Ring, retaining
	36	89260087	2	Nipple
ł	37	89260095	2	Bush
į	38	89260103	8	Screw
	39	89260111	2	Seal
	40	89260129	2	Seal
	41	89260137	2	Circlip
! !	42	89260145	1	Axle, stub
	43	92972389	2	Wheel & tyre assembly
	44	89259915	1	Pin, locking

10.0.3 RUNNING GEAR

10.0.4 **RUNNING GEAR** XHP760 2T MoD (15) 12 (6a) (6b) T1956 Revision 00 06/98

	item	CPN	Qty	DESCRIPTION
XHP760 2T MoD	1	88120464	1	Eye assembly NATO
	2	89260178	1	Drawbar
	3	93194306	1	Propstand assembly
	4	89260194	2	Torque arm
	5	89260202	4	Bolt
	6	89260210	8	Bush
	6a	89260228	4	Washer
	6b	89260236	4	Nut
	7	89260244	2	Axle carrier
	8	89260251	4	Bolt, U
	9	89260681	2	Leafspring
	10	89260269	2	Spacer
	11	89260152	4	Liner
	12	89260160	2	Plate
	13	89260186	8	Washer
	14	89260277	8	Nut
	15	89260285	2	Bolt
	16	89260293	2	Nut
	17	89251672	1	Frame

10.0.5 RUNNING GEAR



	Item	CPN	Qty	DESCRIPTION
XHP760 2T MoD	1	89260368	1	Coupling service
	2	89260376	1	Coupling emergency
	3	89260384	3	Filter line
	4	89260392	1	Valve proportioning
	5	89260400	1	Valve shunt
	6	89260418	1	Valve park
	7	89260426	1	Box Valve
	8	89260434	1	Tank 30 litre
	9	89260442	2	Strap
	10	89260459	1	Relay emergency valve (AS3250)
	11	89260467	1	Valve double check
	12	89260475	2	Spring brake unit
	13	89260483	2	Yoke
	14	-		
	15	89260509	1	Valve, drain
	16	89259139	1	Switch, pressure
	17	89260517	1	Coupling secondary line
	18	89253306	1	Connector & Harness
	19	92974856	1	Regulator
	20	93488690	1	Filter
	21	92911742	1	Valve, ball
	22	92101054	1	Valve, check
evision 01 8/98				

10.0.7 RUNNING GEAR

ENGINE ASSEMBLY 10.1.0 XHP760 2T MoD 29 9 27 8 (DB) 900 26 HI (DC) (GQ)13 14 10 (PC) (wı) (WB) 28 2 (BC) (QN) 20 15 12 (ОМ) 20 18 21 T2043 23 Revision 05 09/97

	Item	CPN	Qty	DESCRIPTION	
XHP760 2T	1	92865666	1	Engine	
MoD	2	92919497	1	Plate, adaptor	
	3	92062157	2	Bush	
	4	35577873	1	Switch	
	5	92517739	1	Bracket	
	6	92893254	1	Fan	
	7	92865518	1	Spacer	
	8	92895507	1	Plate, drive	
	9	92744523	1	Filter, fuel	
	10	92976299	3	Belt, drive	
	11	92658095	1	Filter,oil	
	12	92955293	1	Bracket	
	13	92473297	1	Cylinder	
	14	92955277	1	Clamp	
	15	92955269	1	Valve	
	16	92955285	1	Elbow	
	17	92397702	1	Tube (Nylon)	
	18	92419514	1	Atomiser	
	19	92354364	1	Bush, reducing	
	20	35273937	2	Washer, snubber	
	21	92899863	1	Valve, drain	
	22	92803998	1	Clip, retaining	
	23	92886399	1	Tước	
	24	92823012	1	Hose	
	25	92803998	1	Clip, retaining	
	26	92860394	1	Cover	
	27	92860402	1	Cover	
	28	92499391	1	Grommet	

10.1.1 ENGINE ASSEMBLY

ENGINE ASSEMBLY 10.1.2 XHP760 2T MoD 29 **a** 9 27 (DB) 31 26 HI (DC) (CA) 13 11 25 10 (PC -(WB) (wı) 28 2 (BC) LF) 20 15 12 (OM) 20 18 21 T2043 23 Revision 05 09/97

į		Item	CPN	Qty	DESCRIPTION
	XHP760 2T MoD	29	89252829	1	Bracket
	MOD	30	89201792	1	Lever
		31	89201800	1	Cable
		32	89201834	1	Ball-joint Sall-joint

10.1.3 ENGINE ASSEMBLY

	Item	CPN	Qty	DESCRIPTION	
XHP760 2T	1	92304435	4	Bolt	
MoD	2	35856467	1	Cover	
	3	95358073	1	'O' Ring	
	4	35361286	3	Bolt	
	5	36750909	1	Gearcase	
	6	35318146	18	Bolt ·	
	7	35593516	1	Seal	
	8	35104082	1	Locknut	
	9	35610195	1	Bearing	
	10	35372002	1	Spacer	
	11	36763183	1	Gear-set	
	11	36746410	1	Gear-set	
	12	36504116	1	Driveshaft	
	13	35355809	1	Key	
	14	35610203	1	Bearing	
	15	35372010	1	Spacer	
	16	35372028	1	Shim set	

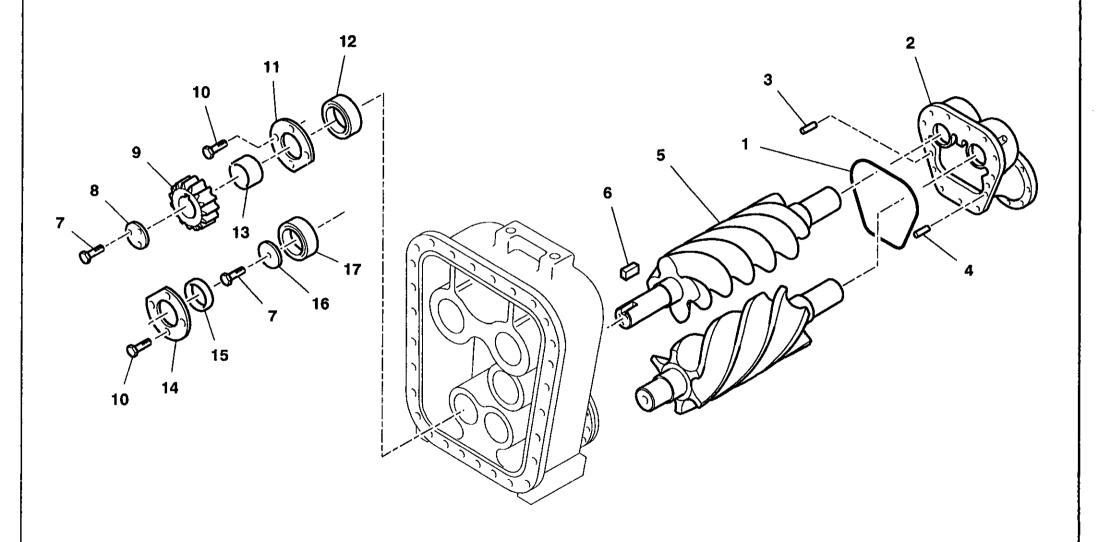
10.1.5 AIREND ASSEMBLY

	Item	CPN	Qty	DESCRIPTION	
XHP760 2T	17	92707801	1	Key	
MoD	18	35610153	1	Plate, retaining	
	19	35371996	1	Spacer	
	20	35337583	1	Spacer	
	21	35336122	1	Pin, locating	
	22	35272541	1	Bolt	
	23	36737161	1	Housing	
	24	35355775	1	'O' Ring	
	25	35271139	1	Bolt	
	26	35272533	1	Boit	
	*27	39101449	4	Plug	
	28	92894518	2	Mount	
	29	92893114	2	Bracket	
	30	35273937	2	Washer, snubber	
	31	92901214	1	Element	
	32	92041466	4	Bott	
				* Not illustrated	

10.1.7 AIREND ASSEMBLY

10.1.8 AIREND ASSEMBLY

XHP760 2T MoD



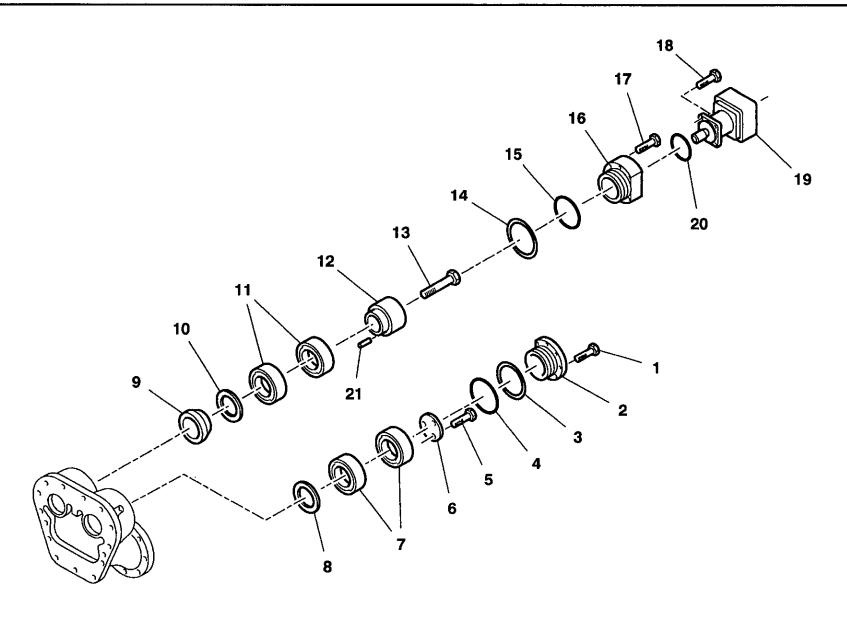
T2045 Revision 00 10/92

	Item	CPN	Qty	
XHP760 2T	1	35355791	1	
foD	2	36738128	1	
	3	35336122	1	Dow
	4	35336130	1	Dowel
	5	36006732	1	Rotor set
	6	35355817	1	Key
	7	35311463	4	Bolt
	8	35300193	1	Plate
	9	36763183	1	Gear-set
	9	36746410	1	Gear-set
	10	35273408	8	Bolt
	11	35355965	1	Plate, retaining
	12	35600022	1	Bearing
	13	35355866	1	Spacer
	14	35355999	1	Plate, retaining
•	15	35355973	1	Spacer
	16	35300201	1	Plate
	17	35600014	1	Bearing

10.1.9 AIREND ASSEMBLY

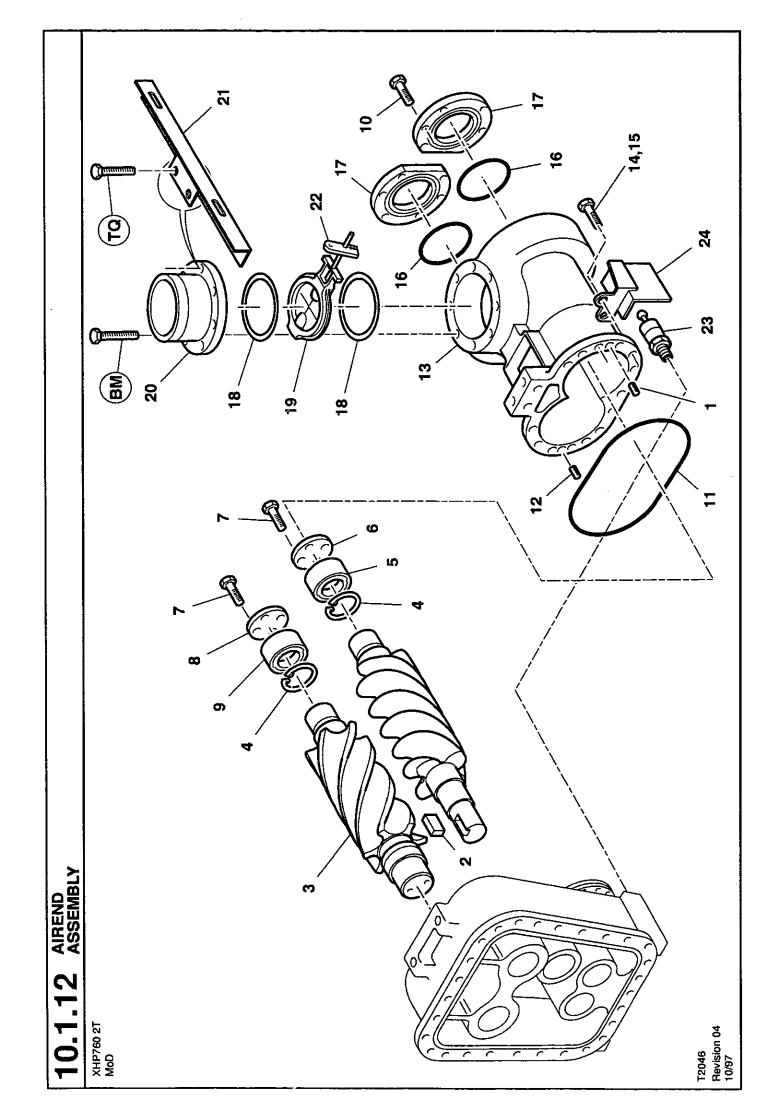
10.1.10 AIREND ASSEMBLY

XHP760 2T MoD



T2058 Revision 00 10/92

MoD	1 35271 2 35856 3 35355 4 95026 5 35311 6 35355 7 35600 8 35355	350 1 924 1 290 1 463 1 957 1	Sh 'O' Bo Pla	over him set O' Ring
	3 35355 4 95026 5 35311 6 35355 7 35600 8 35355	924 1 290 1 463 1 957 1	Sh 'O' Bo Pla	him set 2' Ring polit late
	4 95026 5 35311 6 35355 7 35600 8 35355	290 1 463 1 957 1 113 1	'O' Bo Pla	oft late
	5 35311 6 35355 7 35600 8 35355	463 1 957 1 113 1	Bo Pla	olt late
	6 35355 7 35600 8 35355	957 1 113 1	Pla	late
	7 35600 8 35355	113 1		
	8 35355		Ве	parina
		874 1		annik
	0 05055		Shi	him set
	9 35355	940 1	Pis	ston
	10 35355	874 1	Shi	him set
•	11 35600	113 1	Be	earing
4	12 35864	644 1	Co	oupling
•	13 35369	438 1	Boi	olt .
1	14 35355	916 1	Shi	nim set
1	15 95026	290 1	'Ο'	' Ring
1	16 36500	734 1	Co	over
1	17 39125	000 1	Bol	oft.
1	18 35272	533 1	Bol	oft
1	19 35366	657 1	Pu	итр
2	20 95000	410 1	Ό'	' Ring
2	21 95069	522 1	Do	owel Company of the C

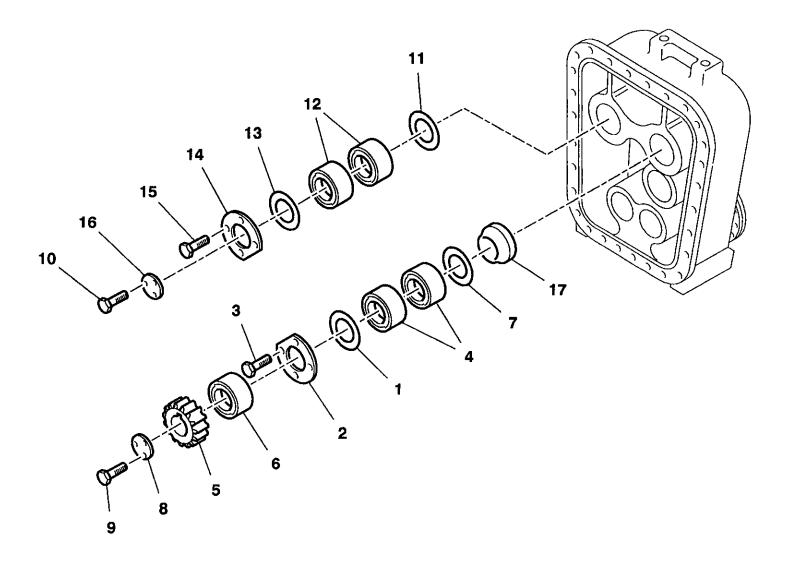


	Item	CPN	Qty	DESCRIPTION	
XHP760 2T	1	35336122	1	Dowel	
MoD	2	35355817	1	Key	
	3	35082114	1	Rotor set	
	4	95223178	2	Circlip	
	5	35600030	1	Bearing	
	6	35300193	1	Plate	
	7	35311463	8	Bolt	
	8	35300193	1	Plate	
	9	35600022	1	Bearing	
	10	35366251	12	Bolt	
	11	35355783	1	'O' Ring	
	12	35336130	1	Dowel	
	13	36738797	1	Housing	
	14	35356039	16	Bolt	
	15	35295344	16	Bott	
	16	35355502	1	'O' Ring	
	17	35331883	2	Plate	
	18	95214524	2	Gasket	
	19	35285626	1	Valve	
	20	92962356	1	Flange	
	21	89201768	1	Bracket	
	22	89201784	1	Lever	
		36845030	1	Valve, safety	
	24	36845048	1	Cover	

10.1.13 AIREND ASSEMBLY

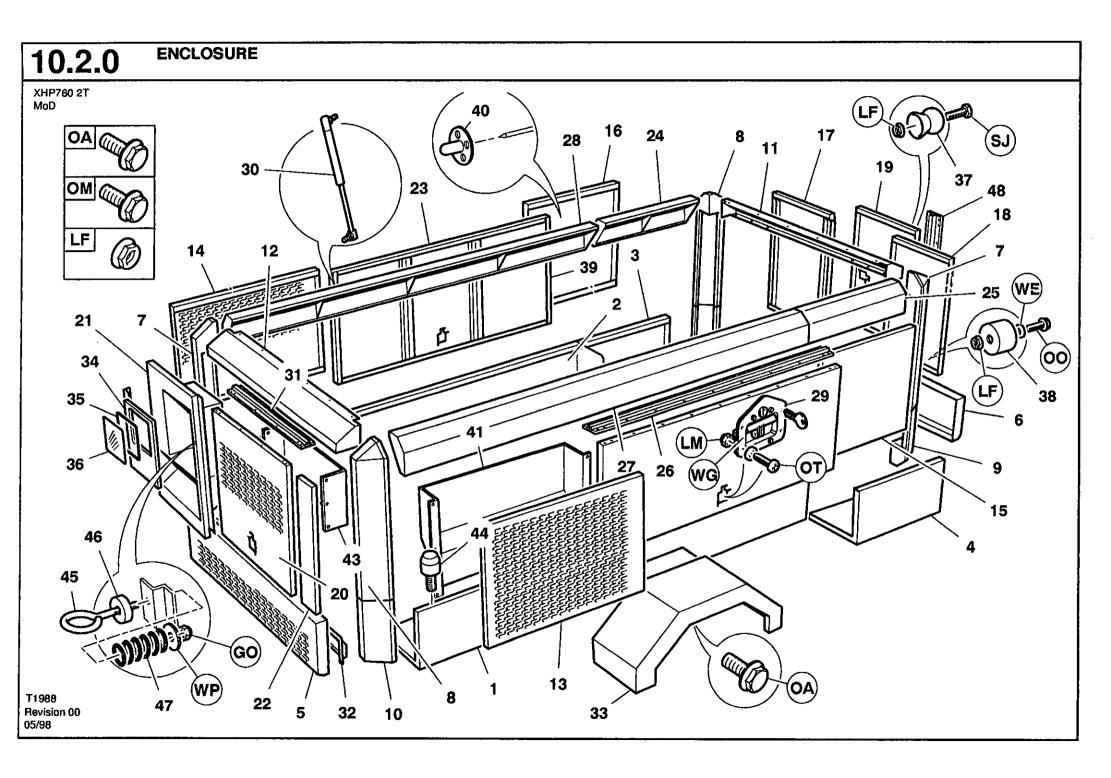
10.1.14 AIREND ASSEMBLY

XHP760 2T MoD



T2059 Revision 00 10/92

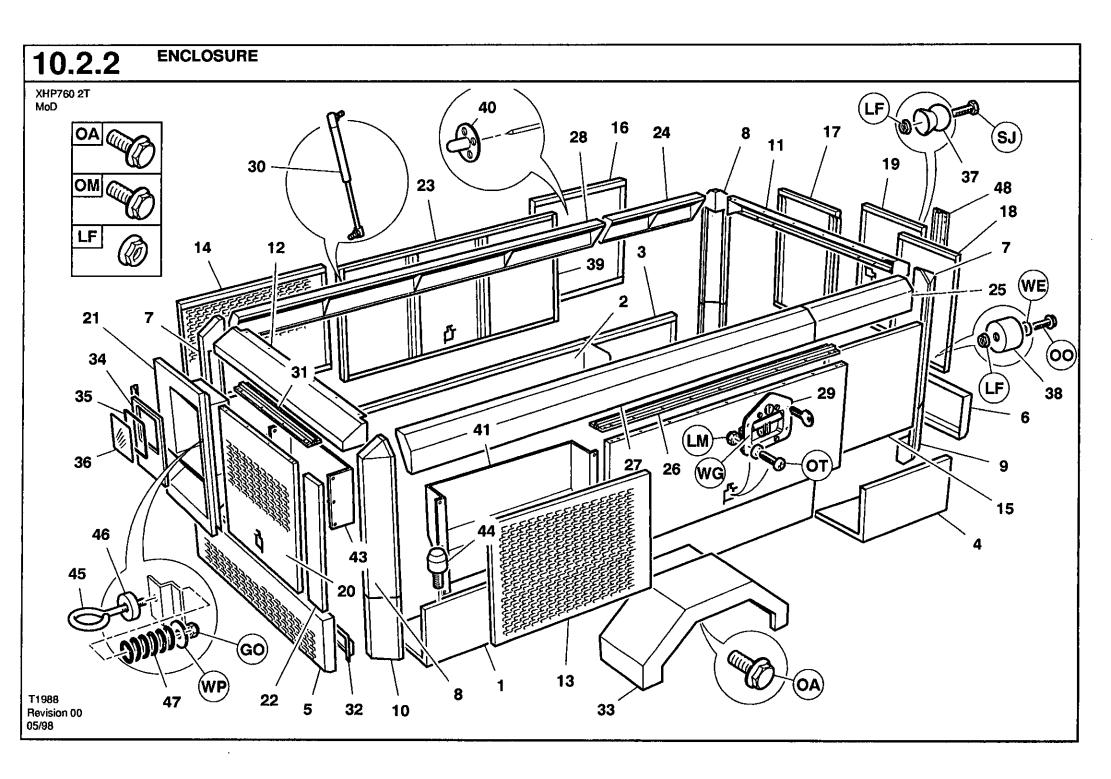
	Item	CPN	Qty	DESCRIPTION	
XHP760 2T	1	35355767	1	Shim set	
MoD	2	36501013	1	Plate	·
	3	35271154	6	Boit	
	4	35605203	2	Bearing	
	5	36763183	1	Gear-set	
	6	35355841	1	Spacer	
	7	35355825	1	Shim set	
	8	35355858	1	Plate	
	9	36763704	3	Bolt	
	10	35311463	3	Bolt	
	11	35355833	1	Shim set	
	12	35600105	2	Bearing	
	13	35355767	1	Shim set	
	14	35856418	1	Plate, retaining	
	15	92304393	6	Bolt	
	16	35300193	1	Plate	
	17	35602457	1	Piston	



	Item	CPN	Qty	DESCRIPTION	
XHP760 2T	1	89249098	1	Panel	
MoD	2	89249106	1	Panel	
	3	89249122	1	Panel	
	4	89249114	1	Panel	
	5	89249163	1	Panel	
	6	89249130	1	Panel	
	7	89249148	2	Panel	
	8	89249155	2	Panel	
	9	89249171	2	Panel	
	10	89249189	2	Panel	
	11	89249205	1	Panel	
	12	89249197	1	Panel	
	13	89249221	1	Panel	
	14	89249213	1	Panel	
	15	89249304	1	Panel	
	16	89249296	1	Panel	
	17	89249247	1	Panel	
	18	89249254	1	Panel	
	19	89249445	1	Door	
	20	89249478	1	Door	
	21	89249239	1	Panel, instrument	
	22	89249312	1	Panel	
	23	89249445	2	Door	
	24	89249288	1	Panel	
	25	89249270	1	Panel	
	26	92912419	1	Hinge	
	27	89249262	1	Panel	
	28	89249262	1 '	Panel	
	29	92962026	4	Latch	
	30	35584036	5	Spring, gas	
	31	92923929	2	Hinge	
Revision 00 05/98		ENO.			

10.2.1

ENCLOSURE

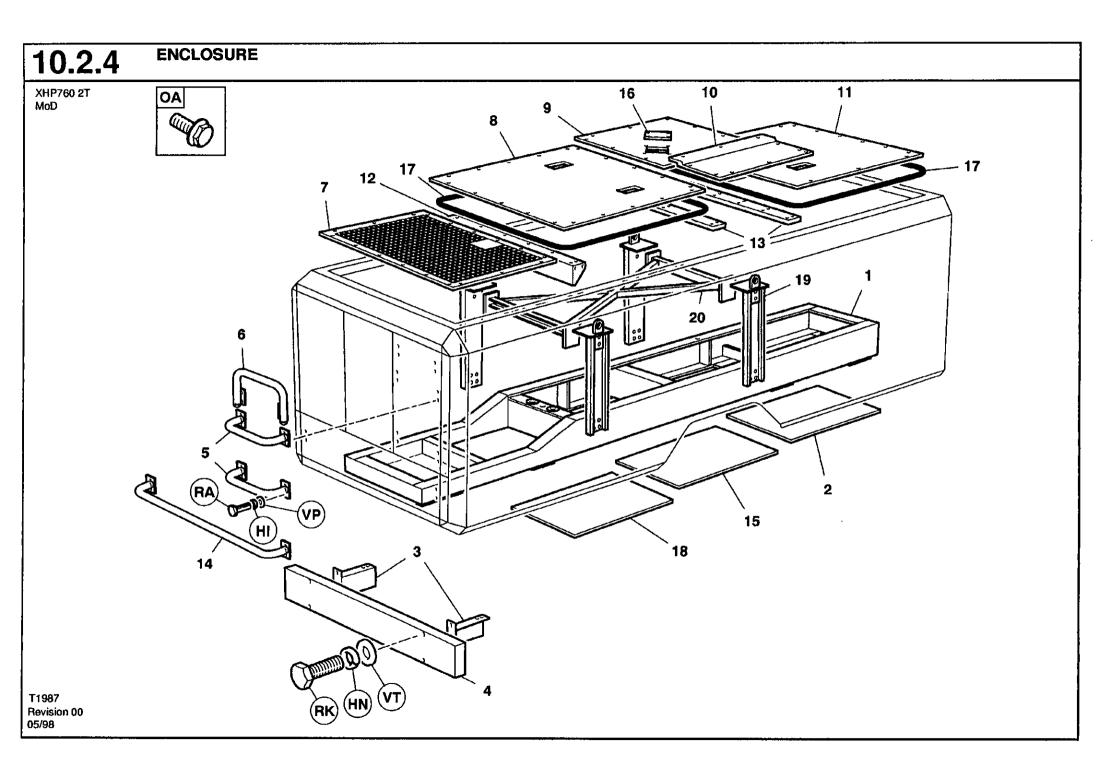


	Item	CPN	Qty	
KHP760 2T	32	89249452	1	
MoD	33	89249486	2	
	34	89257927	1	
	35	35251800	1m	
	36	93174027	1	
	37	92922863	1	
	38	92922855	1	
	39	92973478	12m	
	40	92972090	80	
	41	89252738	1	
	42	89252720	1	
	43	89252746	1	
	44	92035187	1	
	45	92964279	1	
	46	92799527	1	
	47	92799840	1	
	48	92912427	1	

Revision 00 05/98

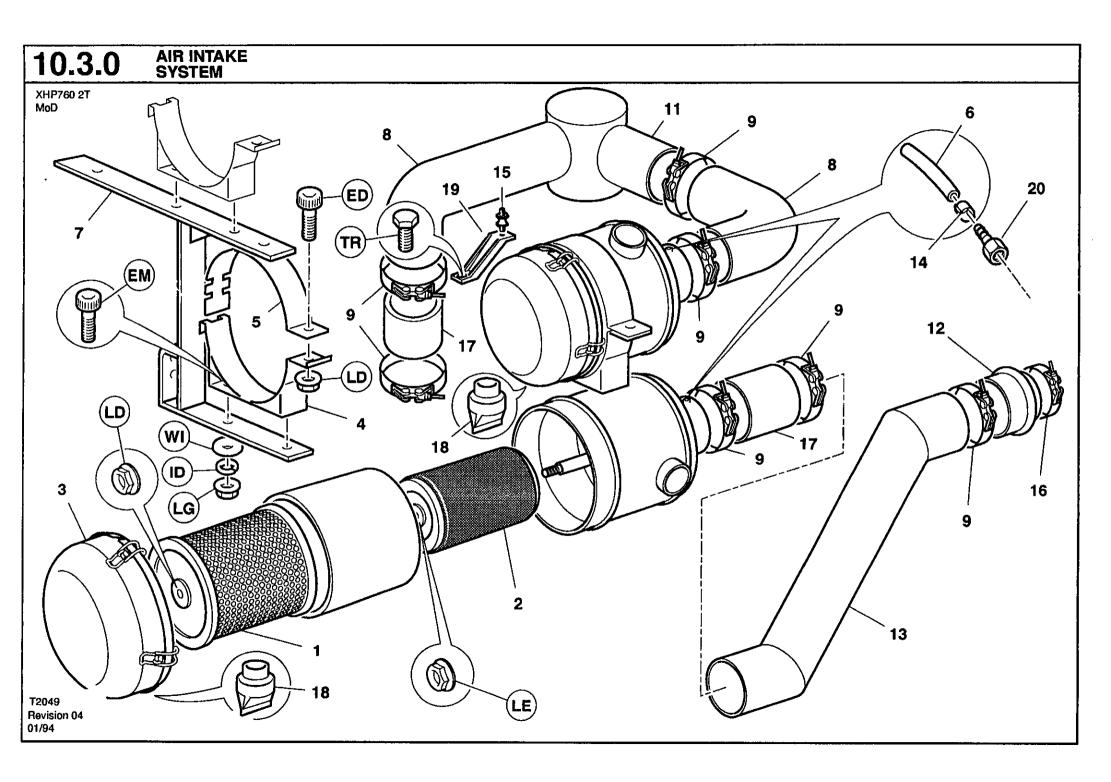
10.2.3

ENCLOSURE



	ttem CPN	Nd	Qty	DESCRIPTION
XHP760 2T		92868850	-	Chassis
Clow	89	89252803	-	Panel
	в	88114095	-	Bracket
	4	92975234	-	Bar, bumper
	3	92912054	8	Step
	9	92912062	-	Handrail
	7	92898998	-	Grille
	æ	89249403	-	Panel
	o O	89249379	**	Panel
	10 89	89249395	-	Plate, cover
	20	89249379	-	Panel
	12 88	89249361	-	Support
	13 89	89249353	23	Support
	14 9	14 92983428	_	Step
	ا ر	15 89252811	-	Cover, battery
	16.89	89260350	-	Plate
<u>-</u>	1 8	92337690	15m	Seal
	# 89	18 89252795	-	Bracket
	0	19 89251680	4	Post, lifting
	20 36	20 89251698	-	Brace, lifting

10.2.5 ENCLOSURE



	ltem	CPN	Qty	DESCRIPTION	
XHP760 2T	1-3	92055300	2	Filter assembly	
MoD	1	92035948	2	Element, air filter	
	2	92035955	2	Element, safety	
	3	92035963	2	Cover	
	4	92920313	2	Mount	·
	5	92920321	2	Strap	
	6	92111335	1	Hose	
	7	92951045	1	Bracket	
	8	35281336	1	Elbow	
	9	92275239	7	Clamp	
	10	92951060	1	Pipe	
	11	89259048	1	Duct	
	12	35264415	1	Hose	
	13	92951060	1	Pipe	
	14	92895473	1	Clip, hose	
	15	92276096	1	Mount	
	16	92085885	1	Clamp	
	17	92952050	2	Hose	
	18	92971977	2	Valve	
	19	92972504	1	Bracket	
	20	92055235	1	Tailpiece	

T2049 Revision 06 11/94

10.3.1 AIR INTAKE SYSTEM

ENGINE EXHAUST SYSTEM 10.3.2 XHP760 2T MoD Cini (OR) (0Q) (OA) T2050 Revision 01 02/93

	Item	CPN	Qty	DESCRIPTION
XHP760 2T	1	92517846	1	Gasket
MoD	2	92893908	1	Pipe
	3	92814045	1	Pipe
	4	92814052	2	Clamp
	5	92893189	1	Silencer
	6	92956820	1	Bracket
	7	92964295	1	Guard
	8	92964303	1	Support
	9	92893205	1	Guard

10.3.3

ENGINE EXHAUST SYSTEM

OIL PIPING 10.4.0 XHP760 2T MoD 20 15 8 D 14 НХ EC 17 В AG HZ 13 BA \odot 19 GM JL ΑE 16 ΗZ 18 12 HY IB T2051 11 Revision 03 01/94

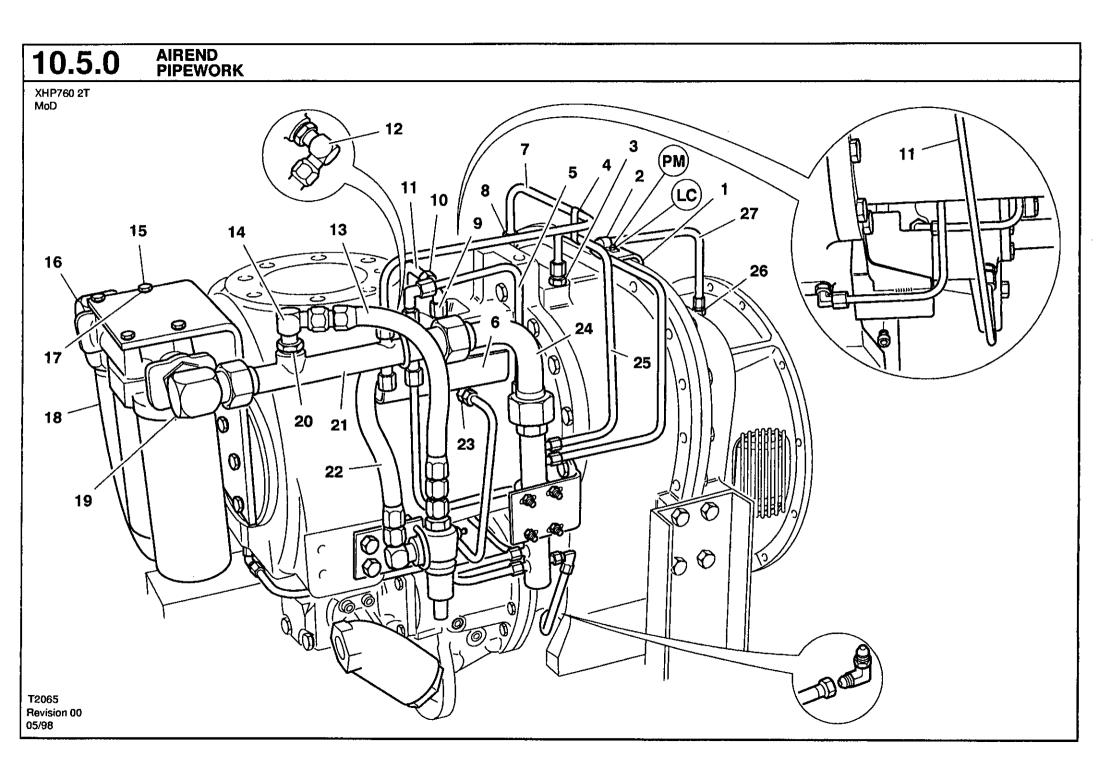
	Item	CPN	Qty	DESCRIPTION	
XHP760 2T MoD	1-4	92752203	1	Valve, temperature bypass	
	1	92707512	1	Body	
	2	92707520	1	Cover	
	3	92707538	1	Gasket	
	4	35288117	1	Valve	
	5	89259055	1	Tube assembly	
	6	92895267	1	Hose assembly	
	7	92892934	1	Valve, safety	
	8	92690593	1	Hose assembly	
	9	92955244	1	Valve, cireck	
	10	92899368	1	Hose assembly	
	11	92899350	1	Hose assembly	
	12	92951953	1	Tube assembly	
	13	92896174	1	Tube assembly	
	14	92892942	1	Valve, relief	
	15	92895168	1	Drop-tube	
1	16	92951896	1	Tube assembly	
	17	36758357	1	Tube assembly	
	18	92963552	1	Bracket	
	19	92898576	1	Cłamp	
	20	92338946	1	Seal	
				KEY	
	Α			Airend	
	В			Tank, separator	
	C			Pump	
	D			Filter assembly	
T2051 Revision 02 01/94					

10.4.1 OIL PIPING

OIL PIPING 10.4.2 XHP760 2T MoD 00000 00000 00000 3 (BG) (VZ 10001000 9 01101010 HALLING 8 (BD) 10 T2060 Revision 03 OD 01/94

	ltem	CPN	Qty	DESCRIPTION
XHP760 2T	1	92865815	1	Tank, separator
MoD	1	92882075	1	Tank, separator (Euronorm)
	1	92982669	1	Tank, separator (AUS)
	2	35579630	1	Сар
	3	92963396	1	Element, oil filter
	4	92765189	1	Gasket
	5	92892967	1	Sight-glass
	6	92893221	1	Pipe
}	7	36843720	t	Valve, check
	8	92962430	t	Pipe
	9	92982875	4	Gasket
	10	92823624	1	Plug
	11	92354661	1	Plug

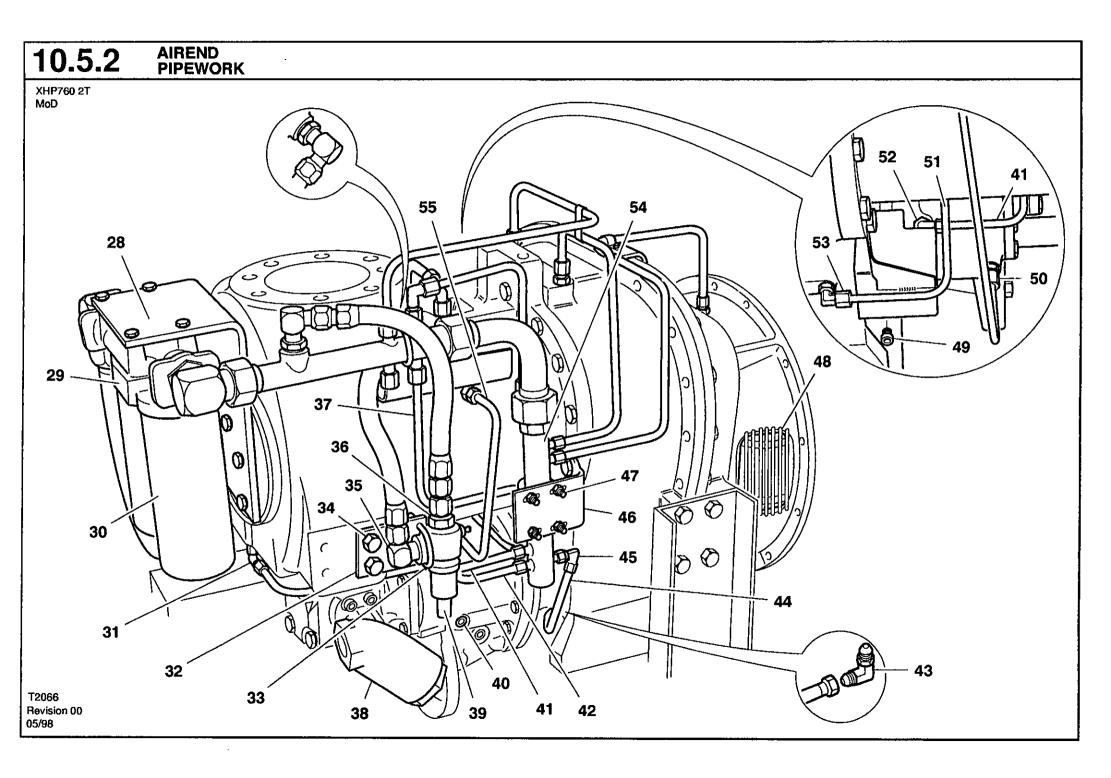
10.4.3



XHP760 2T				
	1	35863885	1	Bracket
MoD	2	35253038	1	Clamp
	3	35364991	1	Connector
	4	35253038	2	Clamp
	5	36743797	1	Tube assembly
	6	36746626	1	Bracket
	7	36850584	1	Tube assembly
	8	35287895	1	Connector
		35294156	1	Connector
	10	35287911	1	Elbow
	11	36743896	1	Tube assembly
	12	35294727	1	Elbow
	13	35287721	1	Hose assembly
		35294735	1	Elbow
		92272368	4	Setscrew
		95431292	1	Elbow
		92304617	4	Washer
		36758357	1	Tube assembly
		95431292	1	Elbow
		95038048	1	Bush, reducing
		36743722	1	Tube assembly
		35294677	1	Hose assembly
		35288166	1	Connector
		35861137	1	Elbow
		36743870	1	Tube assembly
		35364991	1	Connector
	27	36745669	1	Tube assembly

10.5.1

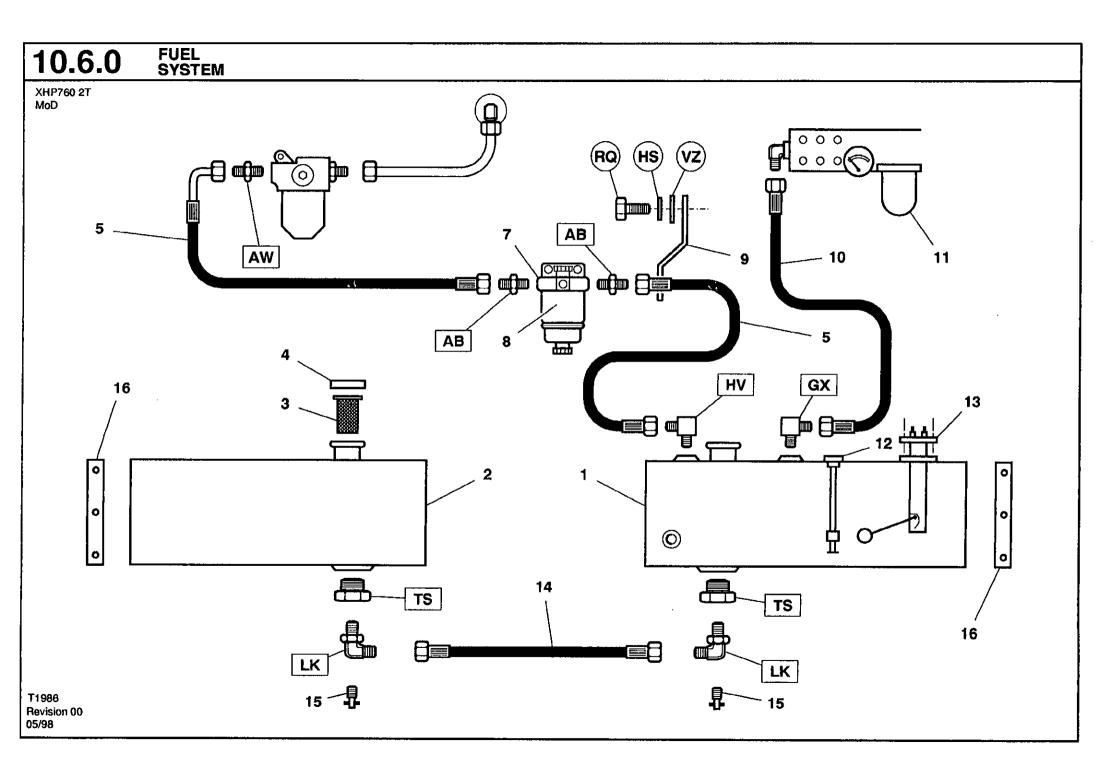
AIREND PIPEWORK



	ltem	CPN	Qty	DESCRIPTION
XHP760 2T	28	36759447	1	Bracket
MoD	29-30	36756120	1	Filter assembly
	30	36860336	2	Element
	31	35606490	1	Elbow
	32	36846517	1	Bracket
	33	36506756	1	Bolt, U
	34	35309715	2	Screw
	35	35294735	1	Elbow
		95293320	1	Connector
			1	Tube assembly
	38	35092279	1	Filter assembly
	39	36846/07	1	Valve, safety
			1	Plug
	41	36743912	1	Tube assembly
		36743920	1	Tube assembly
			1	Elbow
		36748093	1	Tube assembly
		35283068	1	Elbow
		36745792	1	Bracket
		35306638	2	Bolt, U
		36798205	1	Cover
			1	Plug
			1	Connector
		36743904	1	Tube assembly
		35279827	1	Elbow
		35279827	1	Elbow
		36743961	1	Manifold
	55	36748101	1	Tube assembly

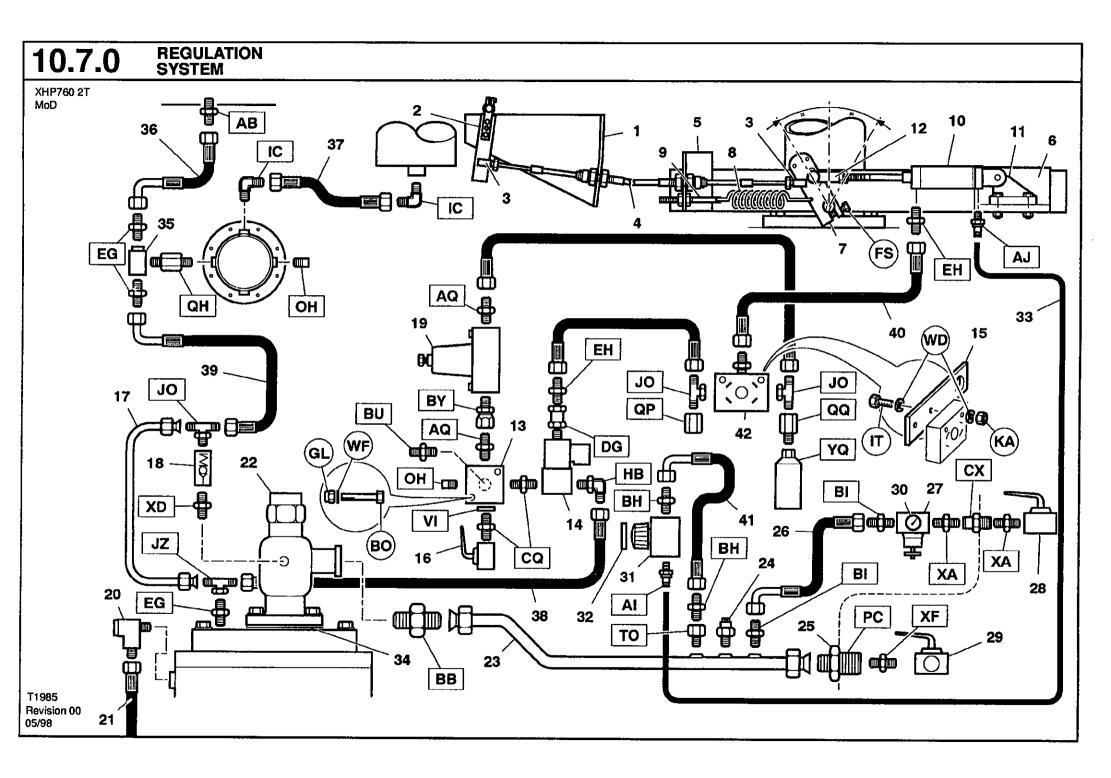
10.5.3

AIREND PIPEWORK



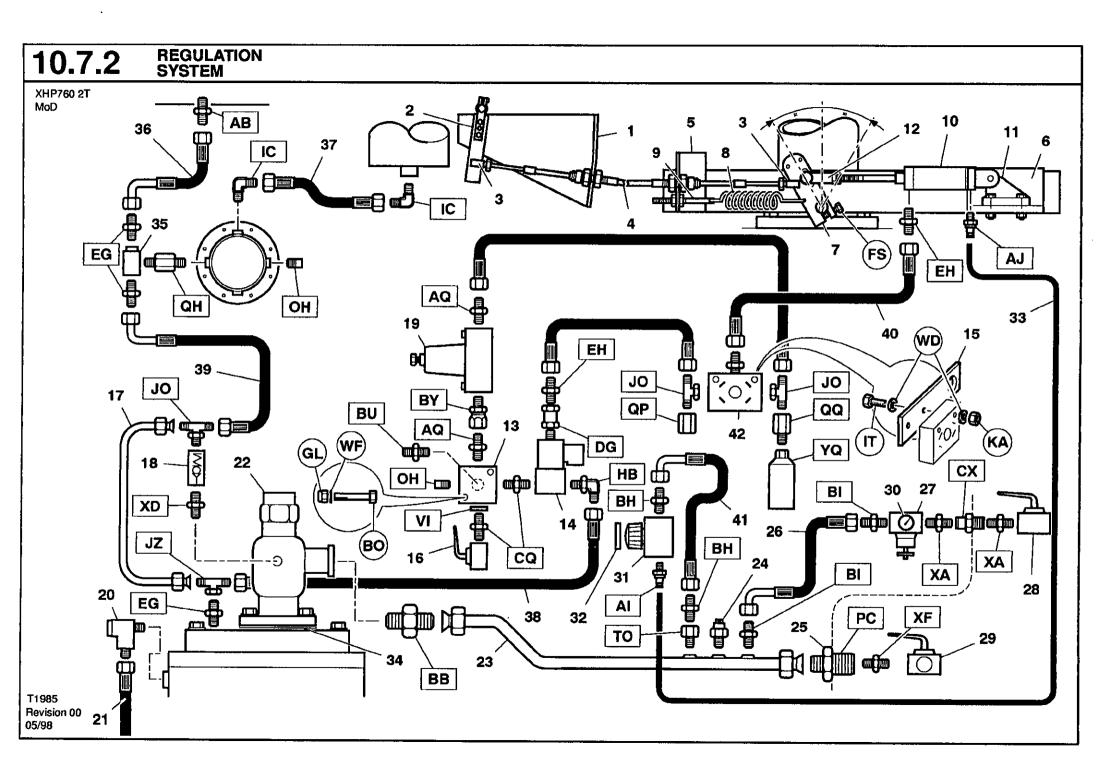
	ltem	CPN	Qty	DESCRIPTION
XHP760 2T	1	89249528	1	Tank, fuel
MoD	2	89249510	1	Tank, fuel
	3	92043058	2	Filter, fuel
	4	92120013	2	Cap, fuel filler
	5	93489128	2	Hose assembly
	6	-		
	7	92894930	1	Filter, fuel
	8	92894989	1	Element, fuel filter
	9	92961614	1	Bracket
	10	92911957	1	Hose assembly
	11	92744523	1	Element, fuel filter
	12	88109954	1	Switch
	13	92062124	1	Sender unit, fuel gauge
	14	89253983	1	Hose assembly
	15	92258706	2	Valve, drain
	16	92894120	2	Bracket

10.6.1 FUEL SYSTEM



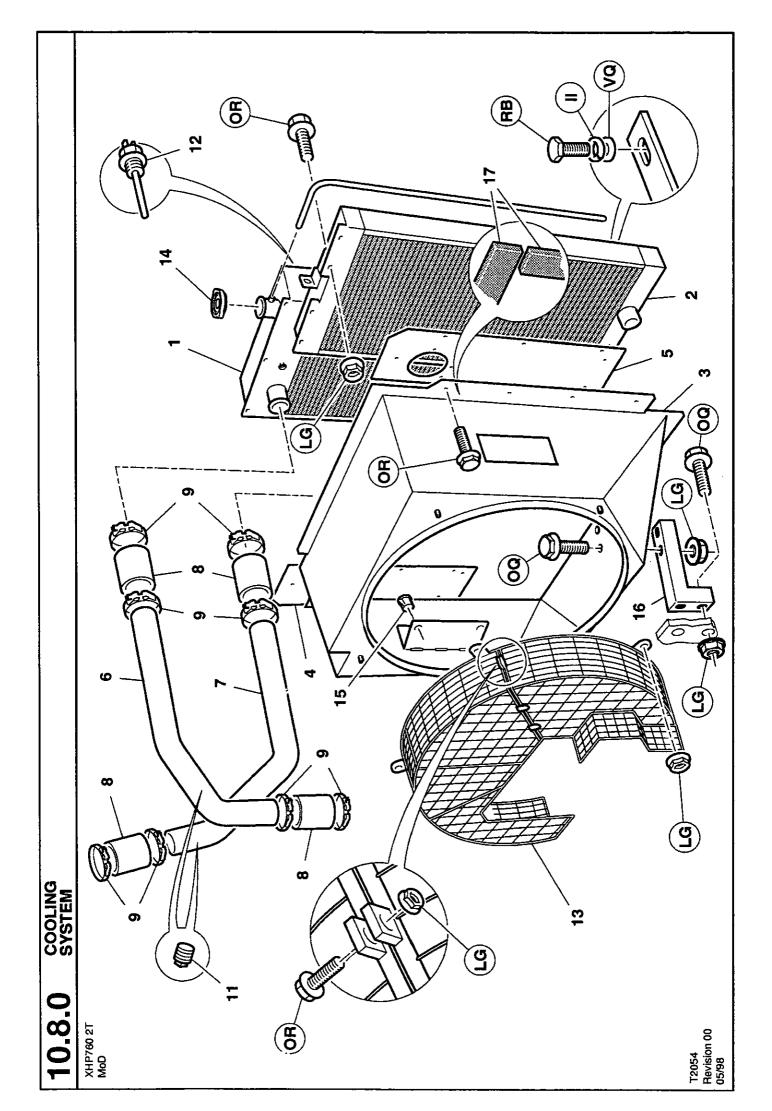
	Item	CPN	Qty	DESCRIPTION
XHP760 2T	1	89201776	1	Bracket
MoD	2	89201792	1	Lever
	3	89201834	2	Ball-joint
	4	89201800	1	Cable
	5	89202170	1	Bracket
	6	89202188	1	Bracket
	7	89201784	1	Lever
	8	35317700	1	Spring
	9	92912021	1	Rod
	10	89201941	1	Cylinder, pneumatic
	11	89201958	1	Support
	12	89201966	1	Ball-joint Sall-joint
	13	89202014	2	Manifold
	14	92956135	1	Valve, solenoid
	15	89252852	1	Bracket
	16	92911742	1	Valve, ball
	17	89203848	1	Tube assembly
	18	92101054	1	Valve, check
	19	92956093	1	Regulator
	20	92892934	1	Valve, safety
	21	92895267	1	Hose assembly
		92892975	1	Valve, minimum pressure
	23	92956515	1	Pipe
	24	92762756	1	Switch, temperature
	25	92893148	1	Flange
	26	92094580	1	Hose assembly
	27	92956952	1	Valve, pressure
		92294461	1	Valve, ball
		92530047	1	Valve, ball
	30	92957091	1	Gauge
Revision 00 06/98				

10.7.1 REGULATION SYSTEM



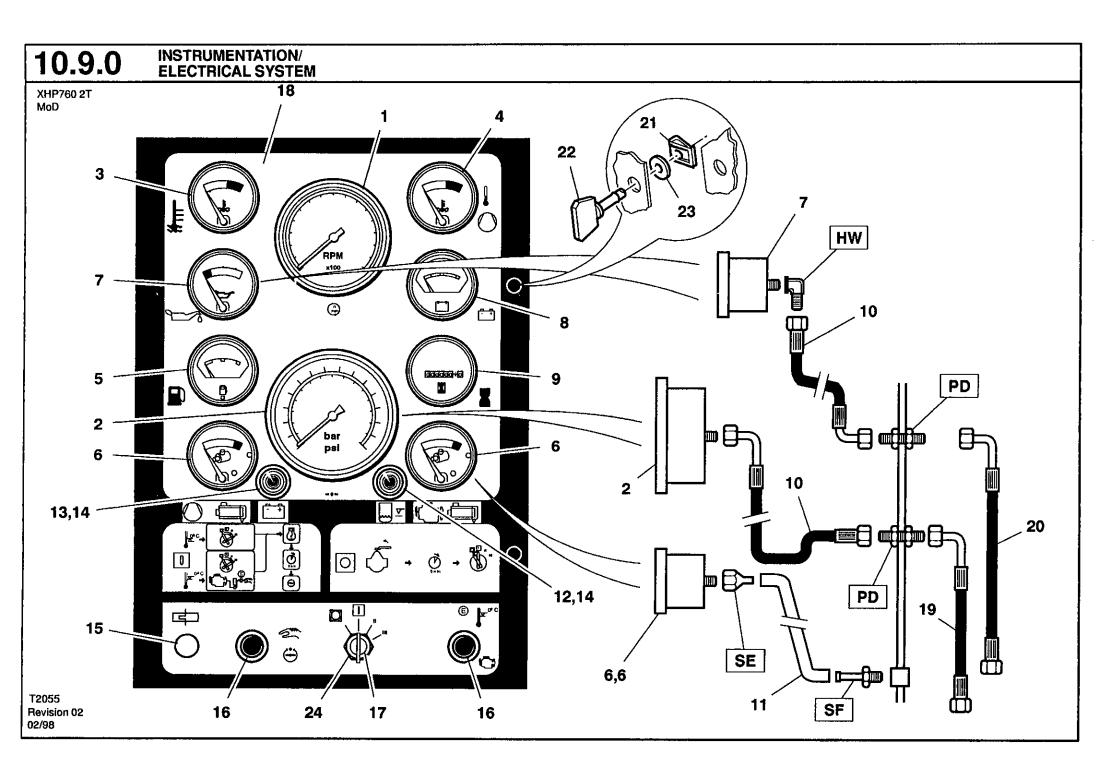
	ltem	CPN	Qty	DESCRIPTION
XHP760 2T	31	89201974	1	Valve, pressure
MoD	32	89201982	1	Ring, retaining
	33	92490358	0,5m	Tube (Nylon)
	34	92765189	1	Gasket
	35	92892959	1	Valve, blowdown
	36	92079474	1	Hose assembly
	37	92898709	1	Hose assembly
	38	92963529	1	Hose assembly
	39	88110341	1	Hose assembly
	40	92049097	2	Hose assembly
	41	92720994	1	Hose assembly
	42	92964170	1	Valve, shuttle

10.7.3 REGULATION SYSTEM



	ltem	CPN	Qty	DESCRIPTION	
XHP760 2T	1	93177806	1	Radiator	
MoD	2	92886092	1	Cooler	
	3	89249429	1	Cowl	
	4	89249338	1	Baffle	
	5	89249346	1	Baffle	
	6	92905900	1	Pipe	
	7	92905918	1	Pipe	
	8	92347459	4	Hose	
	9	92040765	8	Clamp	
	*10	92037464	1	Valve, drain	
	11	92354653	2	Plug	
	12	92175405	1	Probe	
	13	92894096	1	Guard	
	14	92691674	1	Сар	
	15	92951466	4	Catch, magnetic	
	16	92972447	1	Support	
	17	92337690	1	Tape, adhesive	
				* Not illustrated	

10.8.1 COOLING SYSTEM



XMP760 2T MOD 1 Gauge, I.P.M. MDD 2 9299492 1 Gauge, pressure 3 3 2251276 1 Gauge, temperature 4 92851284 1 Gauge, temperature 6 9286073 2 Gauge, vacuum 7 92951268 1 Gauge, voltmeter 8 92082116 1 Gauge, voltmeter 9 92867209 1 Hourmeter 10 92955368 2 Hose assembly 12 92955376 1 Indicator (Amber) 13 92955384 1 Indicator (Amber) 14 92455351 2 Bub, light 15 93478147 1 Gicuit breaker 16 92956906 1 Key-ewitch 18 92951706 1 Key-ewitch 18 92958708 1 Hose assembly 20 92968098 1 Hose assembly 21 92058726 1		Item	CPN	Qty	DESCRIPTION
2 92893492 1 Gauge, ressure 3 92951278 1 Gauge, water temperature 4 92951284 1 Gauge, temperature 5 92950673 2 Gauge, vacuum 7 92951288 1 Gauge, oil pressure 8 92082116 1 Gauge, oil pressure 10 92867209 1 Hourmeter 10 92956946 2 Hose assembly 11 9211335 1 Tube 12 9295376 1 Indicator (Amber) 13 9295384 1 Indicator (Amber) 14 9245351 2 Bub, light 15 33478147 1 Circuit breaker 16 3525553 2 Pushbutton 17 92086719 1 Key-switch 18 92951706 1 Facia 19 9295608 1 Hose assembly 20 92962208 1 Hose assembly 21 92058726 1 Retainer 22 92058726 1 Retainer 22 92058726 1 Hose assembly		1	92956937	1	Gauge, R.P.M.
4 92951284 1 Gauge, temperature 5 92950873 2 Gauge, vacuum 7 92951268 1 Gauge, voltmeter 8 92062116 1 Gauge, voltmeter 10 928567209 1 Hourneter 10 92955846 2 Hose assembly 11 9211335 1 Tube 12 92955376 1 Indicator (Amber) 13 92955384 1 Indicator (Red) 14 9245351 2 Buth, light 15 93478147 1 Circuit breaker 16 325285710 1 Key-switch 18 9295508 1 Hose assembly 19 92956808 1 Hose assembly 19 92956808 1 Hose assembly 20 92956808 1 Hose assembly 21 92956808 1 Hose assembly 22 92058726 1 Hose assembly 23 92058726 1 Hose assembly 24 92058726 1 Hose assembly 25 92058726 1 Hose assembly 26 92058726 1 Hose assembly 27 92058726 1 Hose assembly 28 92058726 1 Hose assembly 29 92058726 1 Hose assembly 29 92058726 1 Hose assembly 20 92058726 1 Hose assembly 20 92058726 1 Hose assembly 21 92058726 1 Hose assembly	MOD	2	92894492	1	Gauge, pressure
5 92057967 1 Gauge, luel 6 92960673 2 Gauge, vacuum 7 92951268 1 Gauge, oil pressure 8 92062116 1 Gauge, volimeter 9 92867209 1 Hourmeter 10 9295846 2 Hose assembly 11 92111335 1 Tube 12 92955376 1 Indicator (Amber) 13 92955384 1 Indicator (Red) 14 92455351 2 Bulb, light 15 93478147 1 Circuit breaker 16 35255533 2 Pushbutton 17 92086719 1 Key-switch 18 92957606 1 Hose assembly 20 9296208 1 Hose assembly 21 92058726 1 Retainer 22 92058734 1 Washer, retaining		3	92951276	1	Gauge, water temperature
6 92960673 2 Gauge, vacuum 7 92951288 1 Gauge, oil pressure 8 92062116 1 Gauge, voltmeter 9 92867209 1 Hourmeter 10 92956846 2 Hose assembly 11 92111335 1 Tube 12 92955376 1 Indicator (Amber) 13 92955384 1 Indicator (Red) 14 92455351 2 Bulb, light 15 93478147 1 Circuit breaker 16 3525553 2 Pushbutton 17 92086719 1 Key-switch 18 92951706 1 Facia 19 92956006 1 Hose assembly 20 92962208 1 Hose assembly 21 92058726 1 Retainer 22 92058734 1 Fastener 23 92058734 1 Fastener		4	92951284	1	Gauge, temperature
7 92951268 1 Gauge, oil pressure 8 92062116 1 Gauge, voltmeter 9 92867209 1 Hourmeter 10 9295846 2 Hose assembly 11 92111335 1 Tube 12 92955376 1 Indicator (Amber) 13 92955384 1 Indicator (Fled) 14 92455351 2 Bulb, light 15 93478147 1 Circuit breaker 16 35255533 2 Pushbutton 17 92086719 1 Key-switch 18 92951706 1 Hose assembly 20 9296208 1 Hose assembly 21 92058726 1 Retainer 22 92058734 1 Fastener 23 92058722 1 Washer, retaining		5	92057967	1	Gauge, tuel
8 92062116 1 Gauge, voltimeter 9 92867209 1 Hourmeter 10 92956846 2 Hose assembly 11 9211(335 1 Tube 12 92955376 1 Indicator (Amber) 13 92955384 1 Indicator (Red) 14 92455351 2 Bulb, light 15 93478147 1 Circuit breaker 16 35255553 2 Pushbutton 17 92086719 1 Key-switch 18 9295106 1 Facia 19 92956066 1 Hose assembly 20 92962208 1 Hose assembly 21 92058726 1 Retainer 22 92058734 1 Fastener 23 92058734 1 Fastener		6	92960673	2	Gauge, vacuum
9 92867209 1 Hourmeter 10 92956846 2 Hose assembly 11 92111335 1 Tube 12 92955376 1 Indicator (Amber) 13 92955384 1 Indicator (Fed) 14 92455351 2 Bulb, light 15 93478147 1 Circuit breaker 16 3525553 2 Pushbutton 17 92086719 1 Key-switch 18 92951706 1 Facia 19 9295606 1 Hose assembly 20 92962208 1 Hose assembly 21 92058734 1 Fastener 22 92058734 1 Fastener 23 92058734 1 Fastener		7	92951268	1	Gauge, oil pressure
10 92956846 2 Hose assembly 11 92111335 1 Tube 12 92955376 1 Indicator (Amber) 13 92955384 1 Indicator (Red) 14 92455351 2 Bulb, light 15 93478147 1 Circuit breaker 16 3525553 2 Pushbutton 17 92086719 1 Key-switch 18 92951706 1 Facia 19 92956008 1 Hose assembly 20 92962208 1 Hose assembly 21 92058726 1 Retainer 22 92058734 1 Fastener 23 92058734 1 Washer, retaining		8	92062116	1	Gauge, voltmeter
11 92111335 1 Tube 12 92955376 1 Indicator (Amber) 13 92955384 1 Indicator (Red) 14 92455351 2 Bulb, light 15 93478147 1 Circuit breaker 16 35255553 2 Pushbutton 17 92086719 1 Key-switch 18 92951706 1 Facia 19 92956006 1 Hose assembly 20 92962208 1 Hose assembly 21 92058726 1 Retainer 22 92058734 1 Fastener 23 92058742 1 Washer, retaining		9	92867209	1	Hourmeter
12 92955376 1 Indicator (Amber) 13 92955384 1 Indicator (Red) 14 92455351 2 Bulb, light 15 93478147 1 Circuit breaker 16 35255553 2 Pushbutton 17 92086719 1 Key-switch 18 92951706 1 Facia 19 9295606 1 Hose assembly 20 92962208 1 Hose assembly 21 92058726 1 Retainer 22 92058734 1 Fastener 23 92058742 1 Washer, retaining		10	92956846	2	Hose assembly
13 92955384 1 Indicator (Red) 14 92455351 2 Bulb, light 15 93478147 1 Circuit breaker 16 3525553 2 Pushbutton 17 92086719 1 Key-switch 18 92951706 1 Facia 19 9295606 1 Hose assembly 20 92962208 1 Hose assembly 21 92058726 1 Retainer 22 92058734 1 Fastener 23 92058742 1 Washer, retaining		11	92111335	1	Tube
14 92455351 2 Bulb, light 15 93478147 1 Circuit breaker 16 35255553 2 Pushbutton 17 92086719 1 Key-switch 18 92951706 1 Facia 19 92956806 1 Hose assembly 20 92962208 1 Hose assembly 21 92058726 1 Retainer 22 92058734 1 Fastener 23 92058742 1 Washer, retaining		12	92955376	1	Indicator (Amber)
15 93478147 1 Circuit breaker 16 35255553 2 Pushbutton 17 92086719 1 Key-switch 18 92951706 1 Facia 19 92956606 1 Hose assembly 20 92962208 1 Hose assembly 21 92058726 1 Retainer 22 92058734 1 Fastener 23 92058742 1 Washer, retaining		13	92955384	1	Indicator (Red)
16 35255553 2 Pushbutton 17 92086719 1 Key-switch 18 92951706 1 Facia 19 92956606 1 Hose assembly 20 92962208 1 Hose assembly 21 92058726 1 Retainer 22 92058734 1 Fastener 23 92058742 1 Washer, retaining		14	92455351	2	Bulb, light
17 92086719 1 Key-switch 18 92951706 1 Facia 19 9295606 1 Hose assembly 20 92962208 1 Hose assembly 21 92058726 1 Retainer 22 92058734 1 Fastener 23 92058742 1 Washer, retaining		15	93478147	1	Circuit breaker
18 92951706 1 Facia 19 9295606 1 Hose assembly 20 92962208 1 Hose assembly 21 92058726 1 Retainer 22 92058734 1 Fastener 23 92058742 1 Washer, retaining		16	35255553	2	Pushbutton
19 92956606 1 Hose assembly 20 92962208 1 Hose assembly 21 92058726 1 Retainer 22 92058734 1 Fastener 23 92058742 1 Washer, retaining		17	92086719	1	Key-switch
20 92962208 1 Hose assembly 21 92058726 1 Retainer 22 92058734 1 Fastener 23 92058742 1 Washer, retaining		18	92951706	1	Facia
21 92058726 1 Retainer 22 92058734 1 Fastener 23 92058742 1 Washer, retaining		19	92956606	1	Hose assembly
22 92058734 1 Fastener 23 92058742 1 Washer, retaining		20	92962208	1	Hose assembly
23 92058742 1 Washer, retaining		21	92058726	1	Retainer
\cdot		22	92058734	1	Fastener
24 95213427 1 Lockwasher		23	92058742	1	Washer, retaining
		24	95213427	1	Lockwasher

10.9.1 INSTRUMENTATION/ ELECTRICAL SYSTEM

10.9.2 INSTRUMENTATION/ ELECTRICAL SYSTEM XHP760 2T MoD 10 10 (HN) (KB) T1958 Revision 00 05/98

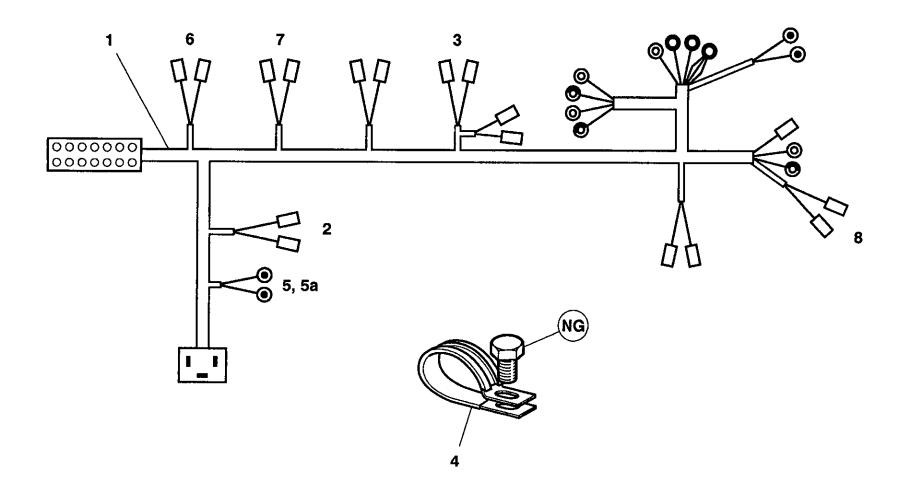
	ltem	CPN	Qty	DESCRIPTION
XHP760 2T	1	89252712	2	Battery
MoD	2	89252753	2	Frame
	3	89253579	4	Stud
	4	89252878	1	Cable
	5	89252886	1	Cable
	6	89252894	1	Cable
	7	-		
	8	92039064	1	Bracket
	9	92254887	2	Grommet
	10	89252761	2	Cover

10.9.3

10.9.4

INSTRUMENTATION/ ELECTRICAL SYSTEM

XHP760 2T MoD



T1994 Revision 00 05/98

	ltem	CPN	Qty	DESCRIPTION	
XHP760 2T MoD	1	89249734	1	Harness main	
	2	92762756	1	Switch, temperature (discharge pipe)	
	3	92762756	1	Switch, temperature (separator tank)	
	4	92253202	2	Clip, retaining	
	5	XXXXXXX	1	Compressor, cold start	
	6	XXXXXXX	1	Valve, solenoid cold start	
	7	92121250	1	Lamp, Low fuel	
	8	92483782	1	Pushbutton emergency stop	
	9	89254049	1	Harness low fuel	

10.9.5

INSTRUMENTATION/ ELECTRICAL SYSTEM

INSTRUMENTATION/ ELECTRICAL SYSTEM 10.9.6 XHP760 2T MoD (O 0000000

T1959 Revision 00 05/98

	tem	CPN	Qty	DESCRIPTION
XHP760 2T MoD	1	89249742	1	Harness, instrument panel
	2	92499888	1	Control unit, water level
	3	92064567	3	Relay 24V
	4	92076173	2	Relay 12V
	5	89251854	1	Flasher, fuel warning
	6	89251821	1	Resistor, flasher

10.9.7 INSTRUMENTATION/ ELECTRICAL SYSTEM

INSTRUMENTATION/ ELECTRICAL SYSTEM 10.9.8 XHP760 2T MoD T1953 Revision 00 06/98

	Item	CPN	Qty	DESCRIPTION
XHP760 2T	1	92975572	1	Harness
MoD	2	89260830	1	Box, terminal
	3	92121250	4	Light, side
	4	89230775	2	Light & Reflector (amber)
	5	89253058	1	Connector & Harness

10.9.9

INSTRUMENTATION/ ELECTRICAL SYSTEM

INSTRUMENTATION/ ELECTRICAL SYSTEM 10.9.10 XHP760 2T MoD T1946 Revision 00 06/98

	item	CPN	Qty	DESCRIPTION
XHP760 2T	1	92975580	1	Harness
MoD	2	89260830	1	Box, terminal
	3	92975507	2	Light assembly
	4	93477388	2	Light, fog
	5	92975556	2	Light registration
	6	89230775	2	Light & Reflector (amber)

10.9.11 INSTRUMENTATION/ ELECTRICAL SYSTEM

10.11.0 LITERATURE

XHP760 2T MoD

1 89259089	1	Manual, Operation and Maintenance, with parts catalogue
2 92861509	1	Holder, manual
3 92975184	1	Manual, engine
4 92975176	1	Manual, engine parts

INGERSOLL-RAND®

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10.11.1

11.0 RECOMMENDED PARTS

		FARTS			
		CPN	Qty	DESCRIPTION	
KHP760 2T MoD	1-45	92988351	1	KIT - SERVICE	
WOD	1	35288117	1	Valve, thermostatic	
	2	92744523	1	Element, fuel filter	
		92894989	1	Element, fuel filter water separator	
	4	92956093	1	Regulator	
	5	92892959	1	Valve, blowdown	
	6	92035948	2	Element, air filter (main)	
	7	92035955	2	Element, air filter (safety)	
	8	92892934	1	Valve, safety	
	9	92057967	1	Gauge, fuel	
	10	92062116	1	Gauge, voltmeter	
	11	92064567	1	Relay 24V	
	12	92976299	3	Belt, drive	
	13	36860336	2	Element, oil filter	
	14	92076173	1	Relay 12V	
	15	92086719	1	Key-switch	
	16	92892967	1	Sight-glass	
	17	92120013	1	Cap, fuel filler	
	18	35577873	1	Switch	
	19	36845030	1	Valve, safety	
	20	92971977	2	Valve	
	21	92955376	1	Indicator (Amber)	
	22	92955384	1	Indicator (Red)	
	23	92455351	2	Bulb, light	
;	24	93478147	1	Circuit breaker	
	25	92294461	1	Valve, hand	
	26	92956937	1	Tachometer	

Revision 00 06/98

2956937 2960673 2530047 2658095	1	Gauge, R.P.M.				
2530047 2658095		O				
2658095	4	Gauge, vacuum				
	1	Valve, ball				
0004400	1	Element, oil filter				
2894492	1	Gauge, pressure				
2951268	1	Gauge, oil pressure				
2951276	1	Gauge, water temperature				
2951284	1	Gauge, temperature				
2988369	1	Gasket set				
2867209	1	Hourmeter				
2951078	1	Kit, minimum pressure valv	' 9			
2960970	1	Switch, low fuel level				
5255553	1	Pushbutton				
2762756	1	Switch, temperature (discharge pipe)				
2762756	1	Switch, temperature (separator tank)				
2175405	1	Relay, fuel				
2762756	1	Switch, temperature				
2957091	1	Gauge				
2963396	1	Element, separator				
5365170		Oil, Compressor	041D 505			
300E16			(XHP 505)	(XHP 505)	(XHP 505)	
91 CUV6		(XHP 1001)	(XHP 1001)	(XHP 1001)	(XHP 1001)	
536517 530051			(XHP 505) 6 Oil, Compressor	(XHP 505) (XHP 505) 6 Oil, Compressor	(XHP 505) (XHP 505) (XHP 505) 6 Oil, Compressor	(XHP 505) (XHP 505) (XHP 505) (XHP 505) 6 Oil, Compressor

RECOMMENDED PARTS

11.2

RECOMMENDED PARTS

		IAIIIO		
	item	CPN	Qty	DESCRIPTION
XHP760 2T MoD		92988369	1	KIT - GASKET/'O' RING
		95358073	1	'O' Ring, driveshaft seal cover
		35355775	1	'O' Ring, cover/gearcase
		35355791	1	'O' Ring, rear bearing housing
		95026290	2	'O' Ring, rear bearing cover
		92982875	1	Gasket
		35355783	1	'O' Ring, reter housing
		35355502	2	'O' Ring, rear bearing cover
		95214524	2	Gasket, butterfly valve
		92517846	1	Gasket, exhaust manifold
		92707538	1	Gasket, temperature bypass valve
		92765189	2	Gasket separator element
		92095413	2	'O' Ring, sight glass
		92095421	2	'O' Ring, sight glass
		92293661	4	Seal, sight glass
		95000410	1	'O' Ring

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Revision 00

11.3

12.0		FASTE INDEX	NERS	
	ltem	CPN	Ref	DESCRIPTION
XHP760 2T MoD	ВС	92311703	T2043 T2044 T2060	Bolt M16 x 100
	BM	92391358	T2046	Bolt M20 x 90
	BZ	95775037	T2060	Bolt 1/4" UNC X 10"
	CA	95792321	T2043	Bolt 3/8"UNC x 2"
	CQ	92398601	T2043	Bolt M16 x 60
	DB	95264149	T2043	Capscrew Socket Head 3/8"UNC x 2"
	DC	39100565	T2043	Capscrew Socket Head 5/8"UNC x 11/2"
<u> </u>	ED	35299353	T2049	Capscrew Socket Head M10 x 60
<u> </u> 	EM	92421403	T2049	Capscrew Socket Head M8 x 20
	FS	92421353	T1985	Capscrew Socket Head M6 x 25
	GL	92879260	T1985	Locknut M6
	GO	92304559	T1988	Locknut M8
	QQ	92311695	T2044	Locknut M16
	HI	92061332	T1958 T1987 T2043	Lockwasher M10
	HN	92061472	T1987	Lockwasher M12
	н٧	92391374	T2044	Lockwasher M20
	IA	92304658	T1958	Lockwasher M6
	ID	92304666	T2049 T2043	Lockwasher M8
Revision 00 06/98				

	Item	CPN	Ref	DESCRIPTION
XHP760 2T MoD	H	92304674	T2043 T2054	Lockwasher M10
	JV	92484880	T2060	Nut M16
	JX	92391366	T2043	Nut M20
	KA	92304492	T1985	Nut M5
i i	KB	92304500	T1958	Nut M6
	KS	92304575	T2050	Nut M12
	LC	35252600	T2065	Nւմ ⁵ / ₁₆ " UNC
	LD	92473594	T2049	Nut M10
	LE	92398643	T1958	Nut M12
	LF	92398106	T1958 T1988 T2043	Nut M6
	LG	92398114	T2049 T2050 T2054	Nut M8
	NG	92272293	T1994	Screw ⁵ / ₁₆ " UNC x ¹ / ₂ "
	OA	92368687	T1987 T1988 T2043 T2050	Screw M6 x 12
	OM	92184811	T1988 T2043	Screw M6 x 12
	00	92398122	T1988	Screw M6 x 20
	OP	92179043	T2056	Screw M6 x 25
	OQ	92398130	T2050	Screw M8 x 20
Revision 00 06/98	OR	92101112	T2050 T2054	Screw M8 x 25
12.1		FASTEI INDEX	NERS	

12.2	FASTENERS
12.2	INDEX

		INDEX		
	ltem	CPN	Ref	DESCRIPTION
XHP760 2T MoD	ОТ	92722990	T1988	Screw M6 x 12
	PC	50763325	T2043	Bott M20 x 70
	PM	35144336	T2065	Screw ⁵ / ₁₆ " ³ / ₄ " UNC
	QN	95214938	T2043	Setscrew ⁵ / ₁₆ " UNC x 1"
	QZ	92304401	T2043	Setscrew M10 x 25
	RA	92280981	T1987	Setscrew M10 x 30
	RB	92304419	T2054	Setscrew M10 x 40
	RF	90103185	T2050	Setscrew M12 x 30
	RK	35278977	T1987	Setscrew M12 x 75
	RW	39136346	T2044	Setscrew M20 x 35
	SJ	92339688	T1988	Setscrew M6 x 35
	TQ	92764372	T2046	Screw M20 x 80
	TR	92764364	T2049	Screw M20 x 25
	UN	92923861	T1958	Screw, Pan head M6 x 16
	VP	92061498	T1987	Washer M10
	VQ	92304617	T2054	Washer M10
	VT	92061506	T1987	Washer M12
	VZ	92359363	T2044 T2060	Washer M16
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	WD	92304583	T1985	Washer M5
	WE	39145008	T1988	Washer M6
	WF	92304591	T1985	Washer M6
	WG	92341981	T988	Washer M6
	WI	92304609	T2043 T2049	Washer M8
	WP	92042241	T1988	Washer M6
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T1985

T1986

Elbow

Elbow

Elbow

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	HY	35294750	T2051	Elbow
	HZ	92716034	T2051	Elbow
	IB	95414223	T2051	Elbow
	IC	92876283	T1985	Elbow
	JL	92791854	T2051	Tee
	JO	92971803	T1985	Tee
	JZ	35283092	T1985	Tee
	LK	89259071	T1986	Elbow
	OD	92354661	T2060	Plug
	ОН	39483888	T1985	Plug
	PC	92899855	T1985	Connector, bulkhead
	PD	92955251	T2055	Connector
	QH	92971811	T1985	Adaptor, orifice
	QP	89252845	T1985	Adaptor, orifice
	QQ	89252837	T1985	Adaptor, orifice
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	SF	92956556	T2055	Fitting, barbed
	то	92354380	T1985	Bush
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	XD	92415363	T1985	Nipple	
	XF	92255942	T1985	Nipple	
	YQ	92513183	T1985	Silencer	

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USE ONLY GENUINE INGERSOLL-RAND PARTS

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