

OPERATING, MAINTENANCE, PARTS MANUAL

COMPRESSOR MODEL

P260WIR

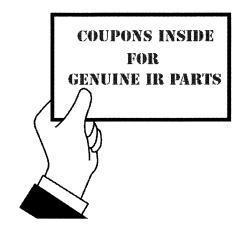
This manual contains important safety information.

Do not destroy this manual.

This manual must be available to the personnel who operate and maintain this machine.

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.

Portable Power
P.O. Box 868
501 Sanford Ave
Mocksville, N.C. 27028
www.portablepower.irco.com



QUALITY POLICY

We will supply products and services that consistently meet the requirements of our customers and each other.

CALIFORNIA Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

(1)

Book 35393966 (08/02)

Foreword

Machine models represented in this manual may be used in various locations worldwide. Machines sold and shipped into European common market countries requires that the machine display the EC Mark and conform to various directives. In such cases, the design specification of this machine has been certified as complying with EC directives. Any modification to any part is absolutely prohibited and would result in the CE certification and marking being rendered invalid. A declaration of that conformity follows:

Declaration of Conformity

WITH EC DIRECTIVE 98/37/EC

Ingersoll-Rand Company P.O. Box 868 501 Sanford Avenue Mocksville, North Carolina 27028 We

Represented In EC By:

Ingersoll-Rand Company Limited Swan Lane, Hindley Green Wigan WN2 4EZ

United Kingdom

Declare that, under our sole responsibility for manufacture and supply, the product(s)

HP1300WCU XP1400WCU P1600WCU	VHP825WCU HP935WCU XP1050WCU	XHP900WCAT XHP650WCAT XHP750WCAT	VHP750WCAT VHP850WCAT HP900WCAT	XHP1070CAT NXP1300WCU
XP900WCU	HP825WCII	YHD825\MCAT	XP1000MCAT	

To which this declaration relates, is (are) in conformity with the provisions of the above directives using the following principal standards

EN1012-1, EN29001, EN202, EN60204-1 PN8NTC2, EN 50081, EN50082

Issued at Mocksville on 1-1-95

Ric Lunsford

Manager of Quality Control

Issued at Hindley Green on 1-1-95

H. Seddon, Q.A. Manager

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 authorized Ingersoll-Rand service department.

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 Ingersoll-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.**

This machine has been designed and supplied for above ground operation to be used for compression of normal ambient air containing no additional gases, vapors or particles within the ambient temperature range specified in the general data section of this manual.

This machine should not be used:

- A. For direct or indirect human consumption of the compressed air.
- B. Outside the ambient temperature range specified in the general data section of this manual.
- C. When an actual or foreseeable risk of hazardous levels of flammable gases or vapors exists.
- D. With other than Ingersoll-Rand approved components.
- E. With guards, or controls or switches missing or disabled.
- F. For storage or transportation of materials inside or on the enclosure.

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

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IMPORTANT NOTICE

This machine may have been shipped from the factory with the drawbar positioned upright.

To Convert From Shipping Position to Towing Position

The following tools are required:

Ratchet

13mm socket to fit ratchet

Torque wrench set to 68 foot pounds

(9.4 kg-meters)

16mm socket to fit torque wrench

5 inch extension for torque wrench

Hardware Included:

- (4) 12mm bolts with pre-applied thread lock
- (2) 8mm Taptite Bolts
- (2) Washers
- (2) Safety Chains

- 1. Remove hardware box from compressor toolbox.
- 2. Open box and remove the bag containing hardware, safety chains and assembly instructions.
- 3. Using the jack, raise the front of the unit so that the legs are approximately 1" above the ground.
- 4. Remove the temporary retaining bolts from both sides of the frame at the drawbar connection (See Figure 1).
- 5. Carefully lower drawbar to the Level Position.
- 6. Install the four bolts (with pre-applied thread lock) to the four points inside the enclosure and torque to 68 ft. lbs. (9.4 kg-m) (See Figure 2).
- 7. Install safety chains by sliding the second link of one chain into the slot in drawbar plate. Fasten chain to plate using taptite and washer. Repeat for the other chain (See Sketch).

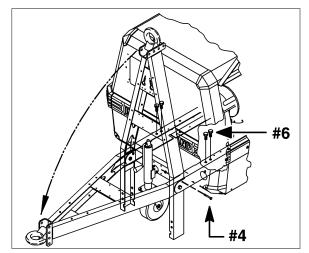


Figure 1
Drawbar Position

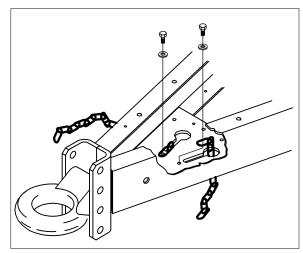


Figure 2
Safety Chain Attachment

SECTION 1- SAFETY

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 if equipped, are not removed permanently from the machine.

Ensure that maintenance personnel are adequately trained, competent and have read the 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 arrestors, and intake (shut-off) valves may be required, dependent on local regulations or the degree of risk involved.

Air discharged from this machine may contain carbon monoxide or other contaminants which will cause serious injury or death. Do not breathe this 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 safety valve rating.

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 accidentally be pressurized or over pressurized by another. Compressed air must not be used for a 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.

Never operate unit without first observing all safety warnings and carefully reading the operation and maintenance manual shipped from the factory with this machine.

Never operate the engine of this machine inside a building without adequate ventilation. Avoid breathing exhaust fumes when working on or near the machine. Do not alter or modify this machine.

A battery contains sulfuric acid and can give off gases which are corrosive and potentially explosive. Avoid contact with skin, eyes and clothing. In case of contact, flush area immediately with water.

Exercise extreme caution when using booster battery. To jump battery, connect ends of one booster cable to the positive (+) terminal of each battery. Connect one end of other cable to the negative (-) terminal of the booster battery and other end to a ground connection away from dead battery (to avoid a spark occurring near any explosive gases that may be present). After starting unit, always disconnect cables in reverse order.

Never operate unit without first observing all safety warnings and carefully reading the operation and maintenance manual shipped from the factory with this machine.

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This machine may include such materials as oil, diesel fuel, antifreeze, brake fluid, oil/air filters and batteries which may require proper disposal when performing maintenance and service tasks. Contact local authorities for proper disposal of these materials.

High Pressure Air can cause serious injury or death. Relieve pressure before removing filler plugs/caps, fittings or covers.

Air pressure can remain trapped in air supply line which can result in serious injury or death. Always carefully vent air supply line at tool or vent valve before performing any service.

This machine produces loud noise with the doors open or service valve vented. Extended exposure to loud noise can cause hearing loss. Always wear hearing protection when doors are open or service valve is vented.

Never inspect or service unit without first disconnecting battery cable(s) to prevent accidental starting.

Do not remove the pressure cap from a HOT radiator. Allow radiator to cool down before removing pressure cap.

Do not use petroleum products (solvents or fuels) under high pressure as this can penetrate the skin and result in serious illness. wear eye protection while cleaning unit with compressed air to prevent debris from injuring eye(s).

Disconnected air hoses whip and can cause serious injury or death. Always attach a safety flow restrictor to each hose at the source of supply or branch line in accordance with OSHA Regulation 29CFR Section 1926.302(b).

Hot pressurized fluid can cause serious burns. Do not open radiator while hot.

Rotating fan blade can cause serious injury. Do not operate without guard in place.

Use care to avoid contacting hot surfaces (engine exhaust manifold and piping, air receiver and air discharge piping, etc.).

Ether is an extremely volatile, highly flammable gas. USE SPARINGLY! Do NOT use ETHER if unit has GLOW Plug starting aid. Engine damage will result.

Never allow the unit to sit stopped with pressure in the receiver–separator system. As a precaution, open the manual blowdown valve.

Never operate unit with guards, covers or screens removed. Keep hands, hair, clothing, tools, blow gun tips, etc. well away from moving parts.

Make sure wheels, tires and tow bar connectors are in safe operating condition and tow bar is properly connected before towing.

Whenever the machine is stopped, air will flow back into the compressor system from devices or systems downstream of the machine unless the service valve is closed. Install a check valve at the machine service valve to prevent reverse flow in the event of an unexpected shutdown when the service valve is open.

Hazardous Substance Precaution

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

Precaution: Avoid ingestion, skin contact and breathing fumes for the following substances: Antifreeze, Compressor Oil, Engine Lubricating Oil, Preservative Grease, Rust Preventative, Diesel Fuel and Battery Electrolyte.

The following substances may be produced during the operation of this machine and may be hazardous to health:

Avoid build-up of Engine Exhaust Fumes in confined spaces.

Avoid breathing Exhaust Fumes.

Avoid breathing Brake Lining Dust during maintenance.

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SAFETY LABELS

Look for these signs on machines shipped to international markets outside North America, which point out potential hazards to the safety of you and others. Read and understand thoroughly. Heed warnings and follow instructions. If you do not understand, inform you supervisor.



Corrosion risk



Hot Surface



Lifting point



WARNING: Electrical shock risk.



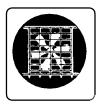
Parking Brake



No open flame



Diesel Fuel. No open flame.



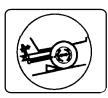
Do not operate the machine without guard being fitted.



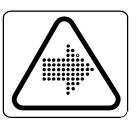
Lifting point



WARNING - Flammable liquid.



When parking use prop stand, handbrake and wheel chocks.



Air/gas flow or Air discharge.



WARNING - Hot and harmful exhaust gas.



Tie down point



Do not breathe the compressed air from this machine.



Read the Operation and Maintenance manual before operation or maintenance of this machine is undertaken.



WARNING - Maintain correct tire pressure. (Refer to the *GENERAL INFORMATION* section of this manual).



WARNING: Consult the operation and maintenance manual before performing any maintenance.



Rough Service Designation Wet Location Operation



Do not stack



Do not use fork lift truck from this side



Replace any cracked protective shield.





Do not operate with the doors or enclosure open.



On (power).

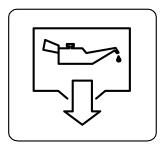


Off (power).



Emergency stop.

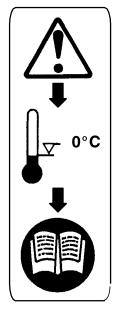
WARNING - Before connecting the tow bar or when preparing to tow, consult the operation and maintenance manual.



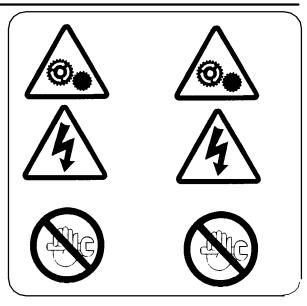
Oil Drain



Do not exceed the speed limit.



WARNING - For operating temperature below 0°C, consult the operation and maintenance manual.



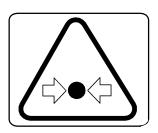
WARNING - Do not undertake any maintenance on this machine until the electrical supply is disconnected and the air pressure is totally relieved.



Read the Operation and Maintenance manual before operation or maintenance of this machine is undertaken



Do not remove the Operating and Maintenance manual and manual holder from this machine.



Pressurized vessel.



Use fork lift truck from this side only.



Pressurized component or system.

Look for these signs on machines shipped to markets in North America, which point out potential hazards to the safety of you and others. Read and understand thoroughly. Heed warnings and follow instructions. If you do not understand, inform you supervisor.



Indicates the presence of a hazard which WILL cause serious injury, death or property damage, if ignored.



Indicates the presence of a hazard which CAN cause serious injury, death or property damage, if ignored.



Indicates the presence of a hazard which WILL or can cause injury or property damage, if ignored.

(Yellow Background)



(Blue Background)

Indicates important set-up, operating or maintenance information.











Improper operation of this equipment. Can cause serious injury or death.

Read Operator's Manual supplied with this machine before operation or servicing.

Modification or alteration of this machine. Can cause serious injury or death.

Do not alter or modify this machine without the express written consent of the manufacturer.



MARNING

Rotating fan blade. Can cause serious injury.

Do not operate without guard in place.

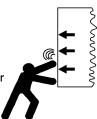




⚠ WARNING

Door under pressure. Can cause serious injury.

Use both hands to open door when machine is running.





CAUTION

DO NOT WELD. **ELECTRONIC DAMAGE** WILL OCCUR.

This engine is equipped with an electronic engine controller and other electronic components.



⚠ WARNING

Collapsing jackstand. Can cause serious injury.



Excessive towing speed. Can cause serious injury

Insert locking pin completely.

or death.

Do NOT exceed 65 mph (105 km/hr.)







WARNING

Falling off machine.

Can cause serious injury or death.



Access lifting bail from inside machine.



MARNING

Disconnected air hoses whip.

Can cause serious injury or death.



When using air tools attach safety device (OSHA Valve) at source of air supply for each tool.





MARNING

Combustible gas.

Can cause serious burn blindness or death.

Keep sparks and open flames away from batteries.



CAUTION

DO NOT USE ETHER.

ENGINE DAMAGE WILL OCCUR.

This engine is equipped with an electric heater starting aid.



⚠ WARNING

High pressure air. Can cause serious injury or death.

Relieve pressure before removing filler plugs/caps, fittings or covers.





USE DIESEL FUEL ONLY



Adding:

Do NOT remove radiator cap. Top off at overflow reservoir. Use same anti-freeze mixture as in radiator.

Replacing:
With system cool, removeradiator cap. Drain coolant and close drain. At radiator, refill system. Replace radiator cap. At reservior, fill to "Hot" level. Run for 30 minutes. Stop and allow to cool. At reservoir, add coolant as necessary to reach "Cold" level.

FREE SAFETY DECALS!

To promote communication of Safety Warnings on products manufactured by the Portable Compressor Division in Mocksville, N.C., Safety Decals are available **free** of charge. Safety decals are identified by the decal DANGER, WARNING or CAUTION. heading:

Decal part numbers are on the bottom of each decal and are also listed in the compressor's parts manual. Submit orders for Safety Decals to the Mocksville Parts Service Department. The no charge order should contain only Safety Decals. Help promote product safety! Assure that decals are present on the machines. Replace decals that are not readable.

SECTION 2 - Warranty

Ingersoll-Rand, through its distributor, warrants that each item of equipment manufactured by it and delivered hereunder to the initial user will be free of defects in material and workmanship for a period of three (3) months from initial operation or six (6) months from the date of shipment to the initial user, whichever occurs first.

With respect to the following types of equipment, the warranty period enumerated below will apply in lieu of the foregoing warranty period.

- A. **Aftercoolers** The earlier of nine (9) months from date of shipment to or six (6) months from start up by initial user.
- B. Portable Compressors, Portable Generator Sets (GENSET) 8KW, 11KW, 20KVA thru 575KVA, Portable Light Towers and Air Dryers The earlier of twelve (12) months from shipment to or the accumulation of 2,000 hours of service by the initial user.
 - **3.5KW thru 7.0KW and 10KW** The earlier of twelve (12) months from shipment to or the accumulation of 2,000 hours of service by the initial user, whichever occurs first. Ingersoll–Rand will provide a new part or repaired part, at it's election, in place of any part which is found to be defective in material or workmanship during the period described above. Labor cost to replace the part is the responsibility of the user.
- C. **Portable Compressor Air Ends -** The earlier of twenty-four (24) months from shipment to or the accumulation of 4,000 hours of service by the initial user. For Air Ends, the warranty against defects will include replacement of the complete Air End, provided the original Air End is returned assembled and unopened.
- C.1 Portable Compressor Airend Limited Optional Warranty The earlier of sixty (60) months from shipment to or the accumulation of 10,000 hours of service. The optional warranty is limited to defects in rotors, housings, bearings and gears and provided all the following conditions are met:
 - 1. The original air end is returned assembled and unopened.
 - 2. Continued use of genuine Ingersoll-Rand parts, fluids, oil and filters.
 - 3. Maintenance is performed at prescribed intervals.

Oil-Free airends are fee-based and may require a maintenance agreement. Formal enrollment is required.

- D. **Genset Generators 8KW, 11KW, 20KVA thru 575KVA -** The earlier of twenty-four (24) months from shipment to or the accumulation of 4,000 hours of service by the initial user.
 - **3.5KW thru 7.0KW and 10KW** The earlier of twelve (12) months from shipment to or the accumulation of 2,000 hours of service.
- E. **Portable Light Tower Generators-** The earlier of twelve (12) months from shipment to or the accumulation of 2,000 hours of service by the initial user. Light Source model only, the earlier of twenty-four (24) months from shipment to or the accumulation of 4,000 hours of service.
- F. **Ingersoll-Rand Engines -** The earlier of twenty-four (24) months from shipment to or the accumulation of 4,000 hours of service.

- G. Ingersoll-Rand Platinum Drive Train Warranty (Optional) Platinum drive train pertains to the Ingersoll-Rand Engine and Airend combination. The earlier of sixty (60) months from shipment to, or the accumulation of 10,000 hours of service. The starter, alternator, fuel injection system and all electrical components are excluded from the extended warranty. The airend seal and drive coupling are included in the warranty (airend drive belts are not included). The optional warranty is automatically available when meeting the following conditions:
 - 1. The original airend is returned assembled and unopened.
 - 2. Continued use of genuine Ingersoll-Rand parts, fluids, oil and filters.
 - 3. Maintenance is performed at prescribed intervals.

It is the obligation of the user to provide verification that these conditions have been satisfied when submitting warranty claims.

F. Spare Parts – Six (6) months from date of shipment.

Ingersoll-Rand will provide a new part or repaired part, at its election, in place of any part which is found upon its inspection to be defective in material and workmanship during the period prescribed above. Such part will be repaired or replaced without charge to the initial user during normal working hours at the place of business of an Ingersoll-Rand distributor authorized to sell the type of equipment involved or other establishment authorized by Ingersoll-Rand. User must present proof of purchase at the time of exercising warranty.

The above warrantees do not apply to failures occurring as a result of abuse; misuse, negligent repairs, corrosion, erosion and normal wear and tear, alterations or modifications made to the product without express written consent of Ingersoll–Rand; or failure to follow the recommended operating practices and maintenance procedures as provided in the product's operating and maintenance publications.

Accessories or equipment furnished by Ingersoll-Rand, but manufactured by others, including, but not limited to, engines, tires, batteries, engine electrical equipment, hydraulic transmissions, carriers, shall carry whatever warranty the manufacturers have conveyed to Ingersoll-Rand and which can be passed on to the initial user.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, (EXCEPT THAT OF TITLE), AND THERE ARE NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.

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GENERAL WARRANTY INFORMATION

GENERAL WARRANTY			Extended Coverage
Portable Compressor Package 1 year/2000 hours		1 year/2000 hours	
	Airend	2 years/4000 hours	5 years/10,000 hours Limited warranty, major components (refer to operator's manual).

Portable Genset 8KW, 11KW, 20KVA thru 575KVA	Package	1 year/2000 hours	None
	Generator	2 years/4000 hours	None

Portable Genset 3.5KW thru 7.0KW	Package	1 year/2000 hours PARTS ONLY	None
and 10KW			
	Generator	1 year/2000 hours PARTS ONLY	None

Light Tower	Package	1 year/2000 hours	
	Generator	1 year/2000 hours	2 years/4000 hours, for Lightsource
			introduced 8/16/99.

ENGINES			
Caterpillar	Months	Hours	Extended Coverage
	12	No Limit	Available at dealer
Cummins	24	2000	Major components 3 yrs/10,000 hours - available at dealer
John Deere			
(IN COMPRESSORS)	24	2000	5 yrs/5000 hours using OEM fluids & filters with \$250 deductible.
			2 yrs/4000 hours using IR fluids & filters
(IN GENERATORS AS OF 1/1/01)	24	2000	
Deutz	24	2000	Available at dealer
Ingersoll-Rand	24	4000	5 years/10,000 hours when using genuine Ingersoll-Rand fluids and parts. Refer to operator's manual.
Kubota (North America Only)	24	2000	Major components 36 months/3000 hrs - parts only
(Western Europe & Oceania)	24	2000	None
(Central & South America, Asia, Middle East & Africa)	12	1000	None
Mitsubishi	24	2000	2 years/4000 hours using IR fluids and filters
Volvo	24	2000	2 years/4000 hours using IR fluids and filters
Honda	12	unlimited	None
Vanguard	24	unlimited	None

PARTS			
	Months	Hours	Coverage
Ingersoll-Rand	6	No Limit	Parts Only
AIREND EXCHANGE			
	Months	Hours	Extended Coverage
Airend	12	2000 hours	2 years/4000 hours - available from IR.

Note: Actual warranty times may change. Consult the manufacturer's warranty policy as shipped with each new product.

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Extended Limited Airend Warranty

Ingersoll-Rand Portable Compressor Division is pleased to announce the availability of extended limited airend warranty. Announcement of the extended warranty coincides with the introduction of PRO•TEC™ Compressor Fluid. PRO•TEC™ Compressor Fluid is an amber colored fluid specially formulated for Portable Compressors and is being provided as the factory filled fluid for all machines except 1 XHP650/900/1070 models.

All machines have the standard airend warranty – *The earlier of 24 months from shipment to, or the accumulation of 4000 hours of service.*

The warranty against defects will include replacement of the complete airend, provided the original airend is returned assembled and unopened.

The optional limited warranty is the earlier of 60 months from shipment to, or the accumulation of 10,000 hours of service. The optional warranty is limited to defects in major components (rotors, housings, gears, bearings), and is automatically available when the following three conditions are met:

- 1. The original airend is returned assembled and unopened.
- Submissions of proof that Ingersoll-Rand fluid, filters and separators have been used.
 Refer to the Operation and Parts manual for the correct fluids, filters and separator elements required.
- 3. Submission of proof that maintenance intervals have been followed.

WARRANTY	TIME	*BARE AIREND	* * AIREND COMPONENTS
STANDARD	2 yrs/4000 hrs	100% parts and labor	100% parts and labor
OPTIONAL	5 yrs/10,000 hrs	100% parts and labor	0%

^{*} Bare Airend - pertains to major airend parts (rotors, housings, gears and bearings).

PRO•TEC[™] and XHP505 Compressor Fluids are available from the Mocksville Product Support department by calling 1-800-633-5206.

¹ XHP650/900/1070 will continue to use XHP505 and will have the extended warranty when above conditions are met.

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^{**} Airend Components - pertains to auxiliary attachments to the bare airend (drive coupling, seals, pumps, valves, tubes, hoses, fittings and filter housing).

WARRANTY REGISTRATION

Complete Machine Registration

<u>Machines shipped to locations within the United States</u> do not require a warranty registration unless the machine status changes (i.e. change of ownership).

<u>Machines shipped outside the United States</u> require notification be made to initiate the machine warranty.

Fill out the Warranty Registration Form in this section, keep a copy for your records and mail form to:

Ingersoll-Rand Company
Portable Compressor Division
P.O. Box 868
Mocksville, North Carolina 27028
Attn: Warranty Department

Note: Completion of this form validates the warranty.

Selling Distributor	Servicing Distributor	WARRA	NTY REGISTRATION
Name	N.		/User Name
Address	A.1.1	Addres	
City	City	City	
County	-	——————————————————————————————————————	,
State	<u> </u>	State	
Zip Code		State Zip Cod	
Telephone		Zip Coo Telepho	
☐ Construction-Heavy	Complete the Applic Owner/User Type of Busines Asphalt Contractor	ess (check one only)	П
(highway, excavation, et	ic.)	or U Coal Mining	Other Mining
Construction-Light (carpentry, plumbing, mason, etc.)	Government (municipal, state county, etc.)	Quarry Quarry	☐ Shallow Oil & Gas
Rental (rental center, rental flee	et, etc.) Building Contract	ctor Waterwell	Utility Company (gas, electric, water, etc.)
☐ Industrial (plant use)	Other specify	Exploration	☐ Utility Contractor
Model	Unit S/N	Engine S/N	Date Delivered
	L]
Unit-Hours	Airend S/N	Truck S/N	Truck Engine S/N
SE	RVICING DISTRIBUTOR/USEF	R ACKNOWLEDGEMEN	Т
	n instructed and/or has read the peration and safety precautions.		proper preventative
,	ion of liability has been reviewed		owner/user.
	is to be used within a nuclear fa nd may arrange for appropriate r		

Ingersoll-Rand reserves the right to make design changes or modifications of Ingersoll-Rand products at anytime without incurring any obligation to make similar changes or modifications on previously sold units.

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SECTION 3 - NOISE EMISSION

This section pertains only to machines distributed within the United States.



TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED

Federal law prohibits the following acts or the causing thereof:

(1) The removal or rendering inoperative by any persons, other than for purposes of maintenance, repair, or replacement, of any device or element of design incorporated into any new compressor for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use; or (2) the use of the compressor after such device or element of design has been removed or rendered inoperative by any person.

Among those acts included in the prohibition against tampering are these:

- 4. Removal or rendering inoperative any of the following:
 - a. the engine exhaust system or parts thereof
 - b. the air intake system or parts thereof
 - c. enclosure or parts thereof
- 5. Removal of any of the following:
 - a. fan shroud
 - b. vibration mounts
 - c. sound absorption material
- 6. Operation of the compressor with any of the enclosure doors open.

Compressor Noise Emission Control Information

- A. The removal or rendering inoperative, other than for the purpose of maintenance, repair, or replacement of any noise control device or element of design incorporated into this compressor in compliance with the noise control act;
- B. The use of this compressor after such device or element of design has been removed or rendered inoperative.

Note: the above information applies only to units that are built in compliance with the U.S. Environmental Protection Agency.

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

The Purchaser is urged to include the above provisions in any agreement for any resale of this compressor.



NOISE EMISSION CONTROL MAINTENANCE LOG

COMPRESSOR MODEL	
SERIAL NO.	
USER UNIT NO.	

DEALER OR DISTRIBUTOR FROM		
WHOM PURCHASED:		
Date Purchased:		

The Noise Control Act of 1972 (86 Stat. 1234) prohibits tampering with the noise control system of any compressor manufactured and sold under the above regulations, specifically the following acts or the causing thereof:

(1) the removal or rendering inoperative by any persons, other than for purposes of maintenance, repair, or replacement, of any device or element of design incorporated into new compressor for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use; or (2) the use of the compressor after such device or element of design has been removed or rendered inoperative by any person.

NOISE EMISSION WARRANTY

The manufacturer warrants to the ultimate purchaser and each subsequent purchaser that this air compressor was designed, built and equipped to conform at the time of sale to the first retail purchaser, with all applicable U.S. EPA Noise Control Regulations.

This warranty is not limited to any particular part, component, or system of the air compressor. Defects in the design, assembly or in any part, component, or system of the compressor which, at the time of sale to the first retail purchaser, caused noise emissions to exceed Federal Standards are covered by this warranty for the life of the air compressor.

INTRODUCTION

The unit for which this Maintenance Log is provided conforms to U.S. E.P.A. Regulations for Noise Emissions, applicable to Portable Air Compressors.

The purpose of this book is to provide (1) the Maintenance Performance Schedule for all required noise emission controls and (2) space so that the purchaser or owner can record what maintenance was done, by whom, where and when. The Maintenance Schedule and detailed instructions on the maintenance items are given on following page.

MAINTENANCE SCHEDULE

ITEM	AREA	PERIOD	
A.	Compressed Air Leaks	As Detected	
B.	Safety and Control Systems	As Detected	
C.	Acoustic Materials	Daily	
D.	Fasteners	100 hours	
E.	Enclosure Panels	100 hours	
F.	Air Intake & Engine Exhaust	100 hours	
G.	Cooling Systems	250 hours	
Н.	Isolation Mounts	250 hours	
I.	Engine Operation	See Operator's Manual	
J.	Fuels & Lubricants	See Operator's Manual	

A. Compressed Air Leaks

Correct all compressed air leaks during the first shutdown period after discovery. If severe enough to cause serious noise problems and efficiency loss, shut down immediately and correct the leak(s).

B. Safety and Control Systems

Repair or replace all safety and control systems or circuits as malfunction occurs. No compressor should be operated with either system bypassed, disabled, or nonfunctional.

C. Acoustic Materials

In daily inspections, observe these materials. Maintain all acoustic material as nearly as possible in its original condition. Repair or replace all sections that have: 1) sustained damage, 2) have partially separated from panels to which they were attached, 3) are missing, or have otherwise deteriorated due to severe operating or storage conditions.

D. Fasteners

All fasteners such as hinges, nuts, bolts, clamps, screws, rivets, and latches should be inspected for looseness after each 100 hours of operation. They should be retightened, repaired, or if missing, replaced immediately to prevent subsequent damage and noise emission increase.

E. Enclosure Panels

Enclosure panels should also be inspected at 100 hour operational intervals. All panels that are warped, punctured, torn, or otherwise deformed, such that their noise containment function is reduced, should be repaired or replaced before the next operation interval. Doors, access panels, and hatch closures especially, should be checked and adjusted at this time to insure continuous seating between gasket or acoustic material and the mating frame.

F. Air Intake and Engine Exhaust

Engine and compressor air intake and engine exhaust systems should be inspected after each 100 hours of operation for loose, damaged, or deteriorated components. Repairs or replacements should be made before the next period of use.

G. Cooling Systems

All components of the cooling system for engine water and compressor oil should be inspected every 250 hours of use. Any discrepancies found should be corrected before placing the unit back in operation. Unrestricted airflow over the radiator and oil cooler must be maintained at all times during operation.

H. Isolation Mounts

Engine/airend isolation mounts should be inspected after each 250 hours of operation. Those mounts with cracks or splits in the molded rubber, or with bent or broken bolts due to operation or storage in severe environments, all should be replaced with equivalent parts.

I. Engine Operation

Inspect and maintain engine condition and operation as recommended in the manuals supplied by the engine manufacturer.

J. Fuels and Lubricants

Use only the types and grades of fuels and lubricants recommended in the Ingersoll-Rand Company and Engine Manufacturer's Operator and Maintenance Manuals.

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MAINTENANCE RECORD FOR NOISE EMISSION CONTROL AND EXTENDED WARRANTY						
ITEM NO.	DESCRIPTION OF WORK	HOURMETER READING	MAINT/ INSPECT DATE	LOCATION CITY/ STATE	WORK DONE BY (NAME)	
			1			
			1			

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SECTION 4 - GENERAL DATA

UNIT MODEL	. P260WIR
Air Delivery - cfm (litres/sec) Engine Speed - RPM (Full Load)	. 2300
COMPRESSOR	
Rated Operating Pressure - psi (kPa) Safety Valve Setting - psi (kPa) Net Weight (less fuel) pounds	. 150 (1034)
ENGINE (Diesel)	
Manufacturer Model Electrical System	. 4IRJ7T
FLUID CAPACITIES	
Compressor Lubricant12 quartsEngine Lube10 quartsFuel Tank29 U.S. ga	(9.5 litres)
UNITS MEASUREMENTS/WEIGHTS	
Overall Length 11.5 feet (Overall Height 4.8 feet (1 Overall Width 5.7 feet (1 Track Width 4.9 feet (1	.46 meters) .74 meters)
RUNNING GEAR	
Tire Size P215/75R. Inflation Pressure (Cold) 35 psi Towing Speed (Maximum) 65 mph (1	
CAUTION: Any departure from the specifications may make this equipment unsafe	
EXPENDABLE SERVICE PARTS	
Compressor Oil Filter Element Compressor Oil Separator Element Air Cleaner Element (compressor) Air Cleaner Element (engine) Engine Oil Filter Element Engine Fuel Filter Element Fuel Water Separator Element	. 39831888 . 54415377 . 35393685 . 54381314 . 54381306

SECTION 5 - OPERATION

BEFORE TOWING

WARNING

Failure to follow these instructions CAN cause severe injury or death.

- Assure tow vehicle has towing capacity for weight of this unit as stated on general data decal.
- Position the tow vehicle to align its hitch with the pintle eye or coupler of the compressor.
- Engage the parking brake and chock the tires of the tow vehicle.
- Stand to the side and ensure pin is FULLY inserted (secure) in tube of jack. Crank jack to seat pintle eye or coupler onto hitch. Latch and lock hitch. Cross safety chain(s) under drawbar. Attach to vehicle.
- Crank jack to raise pad off the ground. Pull pin from tube of jack. Fold jack handle down and forward. Swing up jack tube and FULLY insert pin in tube.
 - · Remove tire chocks.
 - Test brakes, if so equipped.
 - Test lights (running, stop, and turn signals).

WARNING

Always raise (or remove) jack for maximum ground clearance before towing.

SETTING - UP (ALL UNITS)

- Place the unit in an open, well-ventilated area.
 Position as level as possible. The design of these units permits a 15 degree sidewise limit on out-of-level operation.
- When the unit is to be operated out-of-level, it is important: (1) to keep the engine crankcase oil level near the high level mark (with the unit level), and (2) to have the compressor oil level gauge show no more than mid-scale (with the unit run ning at full load). Do not overfill either the engine crankcase or the compressor lubricating oil system.

TOWING



Failure to follow these instructions CAN cause severe injury or death.

- Ensure that tires, wheels and running gear are in good condition and secure.
- Ensure that tires are inflated to 35 psi.
- Do not tow this unit in excess of 65 mph (105 km/hr).
- Use a tow vehicle whose towing capacity is greater than the gross weight of this unit.

DISCONNECT

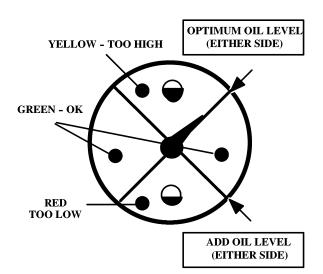
- Engage tow vehicle parking brake.
- Chock tires of compressor.
- Set the vehicle parking brake. Chock wheels of unit.
- Standing to the side, remove pin from tube of jack.
- Disconnect safety chains. Crank jack to raise eye or coupler from hitch. Tow vehicle can be moved.

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COMPRESSOR OIL LEVEL

The oil level should be checked before the unit is started. Always check the oil level while the unit is level, the engine off, and there is zero pressure in the separator tank. The optimum oil level is with the pointer at the top of the green section on the level gage. Add oil if the pointer reaches the bottom of the green section.

Note: The oil level gage will not read properly while the engine is running.



UTILITY PACKAGE SET-UP (no running gear)

This unit must be located on vehicle bed to allow access for normal servicing and maintenance.

The air going into the inlet grille must be relatively free of oil, dirt, soot and other debris. It must be no more than 10 degrees F. (5 degrees C) over the ambient temperature.

WATER COOLED ENGINE

CAUTION

Do not remove pressure cap from a HOT radiator. Allow radiator to cool down before removing pressure cap. Use extreme care when removing a pressure cap from a liquid cooling system for the engine. The sudden release of pressure from a heated cooling system can result in a loss of coolant and possible severe personal injury.

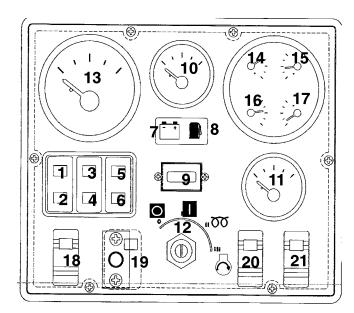
WARNING

NO SMOKING, SPARKS or OPEN FLAME near fuel.

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CONTROL PANEL



Diagnostic/Auto Shutdown (Optional)

- High Engine Temperature Coolant above 220°F (104°C) or more.
- 2. Low Engine Oil Pressure 12 psi or less
- 3. High Compressor Temperature 248°F (120°C)
- 4. Air Filters Restricted Needs Servicing.
- 5. Spare
- 6. Spare

Diagnostic/Auto Shutdown (Standard)

- 7. Alternator Not Charging needs attention.
- **8.** Low Fuel Level Must add fuel to operate.
- Hourmeter Records running time for maintenance.
- Compressor Discharge Pressure Gauge -Indicates pressure in receiver tank, psi (kPa).
- **11.** Fuel Level Gauge Indicates amount of fuel in tank.

Controls (Standard)

12. Power Switch -

Rotate "ON" to activate systems prior to Starting. Rotate "Off" to stop engine.

19. Service Air Button - After warm-up, PUSH. Provides full air pressure at the service outlet.

Optional Controls

- **13.** Engine Speed Gauge Indicates engine speed.
- 14. Discharge Air Temp. Gauge -

Indicates in °F and °C. Normal operating range: 185°F/85° to 248°F/120°C.

Engine Oil Pressure Gauge Indicates engine oil pressure (psi (kPa).

16. Engine Water Temp. Gauge -

Indicates coolant temperature, with normal operating range from 180°F (82°C) to 210°F(99°C).

- **17. Voltmeter -** Indicates battery condition.
- **18. Ether Inject Button -** Injects a measured shot. USE SPARINGLY. (Not on WIR Models).
- 20. Spare
- 21. Spare

Begin with Serial Number 326650

BEFORE STARTING

CAUTION

Whenever the machine is stopped, air will flow back into the compressor system from devices or systems downstream of the machine unless the service valve is closed. Install a check valve at the machine service valve to prevent reverse flow in the event of an unexpected shutdown when the service valve is open.

WARNING

Unrestricted air flow from a hose will result in a whipping motion of the hose which can cause severe injury or death. A safety device must be attached to the hose at the source of supply to reduce pressure in case of hose failure or other sudden pressure release. Reference: OSHA regulation 29 CFR Section 1926.302 (b).

Before Starting:

- Open service valve (s) to ensure pressure is relieved in receiver-separator system. Close valve (s) in order to build up full air pressure and ensure proper oil circulation.
- Check battery for proper connections and condition.
- Check the engine oil level. Maintain per marks on dipstick.
- Check the fuel level. Add only CLEAN DIESEL fuel for maximum service from the engine.
- Check the compressor lubricating oil level. The proper oil level is indicated when the gauge pointed in the green section. Add oil only if the pointer in in the red section.

WARNING

This machine produces loud noise with doors open. Extended exposure to loud noise can cause hearing loss. Wear hearing protection when doors or valve (s) are open.

- Close the side doors to maintain a cooling air path and to avoid recirculation of hot air. This will maximize the life of the engine and compressor and protect the hearing of surrounding personnel.
- Be sure no one is IN or ON the compressor unit.

CAUTION

Exercise extreme caution when using a booster battery to start. To jump start: Connect the ends of one booster cable to the positive (+) terminals of each battery. Then connect one end of the other cable to the negative (-) terminal of the booster battery and the other end to the engine block. NOT TO THE NEGATIVE (-) TERMINAL OF THE WEAK BATTERY.

After Starting:

- a. Reduce engine speed to IDLE.
- b. Disconnect the negative (-) cable from the engine block first, then from the booster battery.
- c. Disconnect positive (+) cable from both batteries.

STARTING

- Turn the POWER switch to "ON".
- Turn power switch to "START" position to crank engine.

Note: Do not operate the starter motor for more than 10 seconds without allowing at least 30 seconds cooling time between start attempts.

Cold Weather Starting:

Leave switch "ON" 10 seconds before starting.

Open manual blowdown valve and service valve, if nothing is connected to it until engine is running.



Engine is equipped with glow plugs for cold starting aid.

Do not use Ether/starting fluid. Engine damage can occur.

- 3. Release POWER SWITCH when the engine starts and sustains running.
- 4. Allow engine to warm up 5 to 10 minutes
- 5. If so equipped, press Service Air Button. Open air service valve(s).

UNITS WITH OPTIONAL DIAGNOSTICS LAMPS

NOTICE

None of the panel lamps should be glowing when machine is operating. If they are, shut unit down and refer to Trouble Shooting Section.

STOPPING

- 1. Close air service valve.
- 2. Allow the unit to run at idle for 3 to 5 minutes to reduce the engine temperatures.
- 3. Turn Power Switch to "OFF" position.
- 4. When the engine stops, automatic blowdown valve should relieve system air pressure. If automatic blowdown valve malfunction is suspected, open manual blowdown valve.
- Never allow unit to sit under pressure when engine is not running.



Since the service valve is closed, air downstream of the valve may be trapped. A vent hole in the service valve will slowly bleed air from the hose. Do not disconnect hoses until all pressure has been vented.

NOTICE

Do NOT wire around or bypass a shutdown sensor or switch.

All units in this family of machines are protected by sensors or switches at the following locations:

- (1) Low engine oil pressure, in the engine.
- (2) High engine coolant temperature, in the engine.

High Discharge AIR Temperature

- (3) At the airend outlet.
- (4) In separator tank.

Units with Diagnostic Lamps:

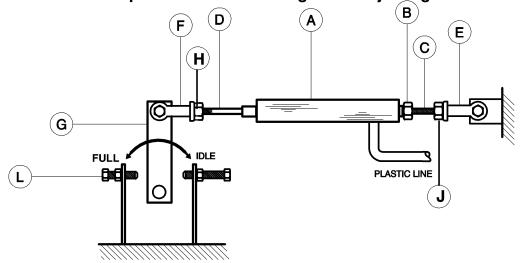
In a shutdown situation, the function of the panel lamps is to indicate what specific failure caused the unit to shut down. These lamps will remain illuminated until the Power Switch is turned "OFF".

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P250WIR Speed and Pressure Regulator Adjusting Instructions



The engine idle and full speed settings are set and sealed at the factory, and should not be adjusted. Serious injury may result if the full speed is increased. Removal of the seals without authorization could affect the warranty. If speed settings are lost due to engine fuel pump service or other repairs, the speed settings can be reset as follows:

Before Starting

- At the Pressure Regulator (on service pipe near receiver tank), remove the cover to expose the adjusting screw. Loosen the jam nut and turn screw counterclockwise until tension is no longer felt at the screw. Then, turn screw clockwise one full turn.
- 2. Close service valve(s).
- 3. Inspect throttle arm (G) on engine governor to see the arm is resetting against FULL stop (L) on governor. Loosen jam nut on air actuating cylinder (A) and then turn cylinder rod (D) until throttle arm (G) is forced against stop (L).

After Starting Unit

- 4. If equipped, push the SERVICE AIR button on the control panel, making certain the button does not pop back out. The unit should speed up and then unload (and drop back to IDLE). With the unit unloaded, turn the adjusting screw on the pressure regulator clockwise until the discharge pressure gauge indicates 125–130 psi. Tighten the pressure regulator jam nut. Replace cover.
- Open the service valve and adjust the discharge pressure to 100 psi (700 kPa).
 Now turn adjusting rod (D) until the proper engine FULL speed setting (*) is reached.
- 6. Close the service valve and adjust IDLE speed (*). Adjust speed using adjusting rod (C). Tighten jam nuts (B) & (J).
- 7. To obtain maximum cfm at any pressure between 80 psi (550 kPa) and maximum pressure rating (*), make adjustment at the pressure regulator to obtain desired discharge pressure at FULL engine speed. Lock adjusting screw and replace cover.

^{*} See General Data Specifications.

SECTION 6 - MAINTENANCE

CAUTION

Any unauthorized modification or failure to maintain this equipment may make it unsafe and out of factory warranty.

If performing more than visual inspections, disconnect battery cables and open manual blowdown valve.

Use extreme care to avoid contacting hot surfaces (engine exhaust manifold and piping, air receiver and air discharge piping, etc.).

Never operate this machine with any guards removed.

Inch and metric hardware was used in the design and assembly of this unit. Consult the parts manual for clarification of usage.

Notice: Disregard any maintenance pertaining to components not provided on your machine.

GENERAL

In addition to periodic inspections, many of the components in these units require periodic servicing to provide maximum output and performance. Servicing may consist of pre-operation and post-operation procedures to be performed by the operating or maintenance personnel. The primary function of preventive maintenance is to prevent failure, and consequently, the need for repair. Preventive maintenance is the easiest and the least expensive type of maintenance. Maintaining your unit and keeping it clean at all times will facilitate servicing.

SCHEDULED MAINTENANCE

The maintenance schedule is based on normal operation of the unit. This page can be reproduced and used as a checklist by the service personnel. In the event unusual environmental operating conditions exist, the schedule should be adjusted accordingly.

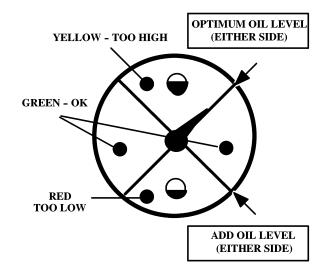
COMPRESSOR OIL LEVEL

The oil level should be checked before the unit is started. Always check the oil level while the unit is level, the engine off, and there is zero pressure in the separator tank. The optimum oil level is with the pointer at the top of the green section on the level

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gage. Add oil if the pointer reaches the bottom of the green section.

Note: The oil level gage will not read properly while the engine is running.



The oil level should be checked before the unit is started. The optimum operating level is midway of the sight gage on the side of the receiver tank. If the oil level is not in the "OK" range, make appropriate corrections (Add or Drain).

AIR CLEANER

If this unit is equipped with the Optional Diagnostic Panel, it has an AIR FILTERS RESTRICTED lamp on the instrument panel, covering both the engine and the compressor.

This should be checked daily during operation. If the lamp glows (red) with the unit operating at full speed, servicing of the cleaner element is necessary.

Also weekly squeeze the rubber valve (precleaner dirt dump) on each air cleaner housing to ensure that they are not clogged.

The air filters restricted sensor will automatically reset after the main power switch is turned to "OFF."



To service the air cleaners on all units proceed as follows:

- 1. Release cover latches, and remove cover.
- Inspect air cleaner housing for any condition that might cause a leak and correct as necessary.
- Wipe inside of air cleaner housing with a clean, damp cloth to remove any dirt accumulation, especially in the area where the element seals against the housing.
- Inspect element by placing a bright light inside and rotating slowly. If any holes or tears are found in the paper, discard this element. If no ruptures are found, the element can be cleaned.
- 5. If a new air filter element is to be used check it closely for shipping damage.
- 6. Install cleaned or new elements in the reverse order to the above.
- 7. Install cover and fasten latches.

In the event that the filter element must be reused immediately, compressed air cleaning (as follows) is recommended since the element must be thoroughly dry. Direct compressed air through the element in the direction opposite to the normal air flow through the element.

Move the nozzle up and down while rotating the element. Be sure to keep the nozzle at least one inch (25.4 mm) from the pleated paper.

NOTE: To prevent damage to the element, never exceed a maximum air pressure of 100 psi (700 kPa).

In the event the element is contaminated with dry dirt, oil or greasy dirt deposits, and a new element is not available, cleaning can be accomplished by washing, using the air cleaner element manufacturer's recommendations.

<u>NOTE:</u> It is recommended that replacement elements be installed in the unit. The elements just removed for cleaning can be washed and stored as future replacement elements.

In addition, the air cleaner system (housing and piping) should be inspected every month for any leakage paths or inlet obstructions. Make sure the air cleaner mounting bolts and clamps are tight. Check the air cleaner housing for dents or damage which could lead to a leak. Inspect the air transfer tubing from the air cleaner to the compressor and the engine for leaks.

Make sure that all clamps and flange joints are tight.

GAUGES

The instruments or gauges are essential for safety, maximum productivity and long service life of the machine. Inspect the gauges and test any diagnostic lamps prior to start-up. During operation observe the gauges and any lamps for proper functioning. Refer to Operating Controls, for the normal readings.

FUEL TANK

CLEAN fuel in the fuel tanks is vitally important and every precaution should be taken to ensure that only <u>clean fuel</u> is poured or pumped into the tank.

When filling the fuel tank on this unit, by methods other than a pump and hose, use a CLEAN non-metallic funnel.

BATTERY

Keep the battery posts-to-cable connections clean, tight and lightly coated with a grease. Also the electrolyte level in each cell should cover the top of the plates. If necessary, top-up with clean distilled water.

TIRES

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A weekly inspection is recommended. Tires that have cuts or cracks or little tread should be repaired or replaced. Monthly check the wheel lug nuts for tightness.

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COMPRESSOR OIL COOLER

The compressor lubricating and cooling oil is cooled by means of the fin and tube-type oil cooler, located below the radiator. The lubricating and cooling oil, flowing internally through the core section, is cooled by the air stream from the cooling fan flowing past the core section. When grease, oil and dirt accumulate on the exterior surfaces of the oil cooler, its efficiency is impaired.

Each month it is recommended that the oil cooler be cleaned by directing compressed air which contains a nonflammable, non-caustic safety solvent through the core of the oil cooler. This should remove the accumulation of grease, oil and dirt from the exterior surfaces of the oil cooler core so that the entire cooling area can transmit the heat of the lubricating and cooling oil to the air stream.

In the event foreign deposits, such as sludge and lacquer, accumulate in the oil cooler to the extent that its cooling efficiency is impaired, a resulting high discharge air temperature is likely to occur, causing shut down of the unit. To correct this situation it will be necessary to clean it using a cleaning compound in accordance with the manufacturer's recommendations.

HOSES

Each month it is recommended that all of the intake lines to and from the air cleaners, the engine cooling system hoses and all of the flexible hoses used for alr, oil, and fuel be inspected.

To ensure freedom from air leaks, all rubber hose joints and the screw-type hose clamps must be absolutely tight. Regular inspection of these connections for wear or deterioration is necessary.

Premature wear of both the engine and compressor is ASSURED whenever dust-laden air is permitted to enter the engine's combustion chamber or the compressor intake.

The flexible hoses used in the fuel, oil and air lines on these units are primarily used for their ability to accommodate relative movement between components. It is important they be periodically inspected for wear and deterioration. It is also important the operator does not use the hoses as convenient hand hold or steps. Such use can cause early cover wear and hose failure.

Piping systems operating at less than 150 psi (1050 kPa) may use a special nylon tubing. The associated fittings are also of a special "push-in" design. If so, features are as follows:

Pulling on the tubing will cause the inner sleeve to withdraw and compress, thus tightening the connection. The tubing can be withdrawn only while holding the sleeve against the fitting. The tubing can be removed and replaced numerous times without losing its sealing ability.

To install the nylon tubing, make a mark (with tape or grease pencil) approximately 7/8 inch from the end of the tubing. Insert the tubing into the sleeve and "push-in" past the first resistance to the bottom. The mark should be approximately 1/16 inch from the sleeve, for the 3/8 inch O.D. tubing; 1/8 inch for the 0.25 inch O.D. tubing. This will ensure that the tubing is fully engaged in the sealing mechanism.

COMPRESSOR OIL FILTER

The oil filter must be replaced every 500 hours of operation or six (6) months, whichever comes first.

To service the oil filters it will first be necessary to shut the unit down. Wipe off any external dirt and oil from the exterior of the filter to minimize any contamination from entering the lubrication system. Proceed as follows:



High pressure air can cause severe injury or death from hot oil and flying parts. Always relieve pressure before removing caps, plugs, covers or other parts from pressurized air system.

- Open the service air valve(s) to ensure that system is relieved of all pressure. Close the valve(s).
- Turn the spin-on filter element counterclockwise to remove it from the filter housing. Inspect the filter.

NOTICE

If there is any indication of formation of varnishes, shellacs or lacquers on the oil filter element, it is a warning the compressor lubricating oil has improper characteristics and should be immediately changed.

3. Inspect the oil filter head to be sure the gasket was removed with the oil filter element. Clean the gasket seal area on the oil filter head.

NOTICE

Installing a new oil filter element when the old gasket remains on the filter head, will cause an oil leak and can cause property damage.

- 4. Lubricate the new filter gasket with the same oil being used in the machine.
- 5. Install new filter by turning element clockwise until gasket makes initial contact. Tighten an additional 1/2 to 3/4 turn.
- 6. Start unit and allow to build up to rated pressure. Check for leaks before placing unit back into service.

FASTENERS

Visually check entire unit in regard to bolts, nuts and screws being properly secured. Spot check several capscrews and nuts for proper torque. If any are found loose, a more thorough inspection must be made. Take corrective action.

COMPRESSOR OIL

The lubricating and cooling oil must be replaced every 500 hours of operation or six (6) months, whichever comes first. Refer to Section 7 – Lubrication.

RUNNING GEAR

Every month or 500 miles, tighten the wheel lug nuts to 85 – 95 lbs.-ft. Every six months the wheel bearings, grease seals and axle spindles should be inspected for damage (corrosion, etc.) or excessive wear. Replace any damaged or worn parts. Repack wheel bearings. Use a wheel bearing grease conforming to specification MIL-G-10924 and suitable for all ambient temperatures.

Grease can be replaced in a wheel bearing using a special fixture or by hand as follows.

Before installing bearing, place a light coat of grease on the bearing cups which are pressed in the hub.

Place a spoonful of grease in the palm of one hand and take the bearing in the other hand. Push a segment of the wider end of the bearing down into the outer edge of the grease pile closest to the thumb. Keep lifting and pushing the bearing down into the edge of the grease pile until grease oozes out both from the top and from between the rollers. Then rotate the bearing to repeat this operation on the next segment. Keep doing this until you have the entire bearing completely filled with grease.

Excessive grease in the hub or grease cap serves no purpose due to the fact that there is no way to force the grease into the bearing. The manufacturer's standard procedure is to thoroughly pack the inner and outer bearing with grease and then to apply only a very small amount of grease into the grease cap.

If bearing adjustment is required or the hub has been removed for any reason, the following procedure must be followed to ensure a correct bearing adjustment of 0.001 to .012 free play.

- While rotating hub slowly to seat the bearings, tighten spindle nut to approximately 15 lbs.-ft. Grasp the tire at the top and bottom and rock, in and out. There should be no evidence of looseness (free play) at the bearing.
- 2. Loosen nut to remove preload torque. Do not rotate hub.
- Finger tighten nut until just snug. Loosen nut until the first nut castellation lines up with cotter pin hole in spindle. Insert cotter pin.
- 4. Ensure a definite but minimal amount of free play by rocking the tire.
- 6. Nut should be free to move with only restraint being the cotter pin.

RECEIVER-SEPARATOR SYSTEMS



High pressure air can cause severe injury or death from hot oil and flying parts. Always relieve pressure before removing caps, plugs, covers or other parts from pressurized air system.

- Open service valve at end of machine.
- Ensure pressure is relieved, with BOTH:
 - Discharge air pressure gauge reads zero (0).
 - No air discharging from service valve.
- When draining oil, remove plug from bottom of separator tank.
- When adding oil, remove and replace (make tight) plug on side of separator tank.

• In the compressor lubricating and cooling system, separation of the oil from the compressed air takes place in the receiver-separator tank. As the compressed air enters the tank, the change in velocity and direction drop out most of the oil from the air. Additional separation takes place in the oil separator element which is located in the top of the tank. Any oil accumulation in this separator element is continuously drained off by means of a scavenge tube which returns the accumulated oil to the system.

The life of the oil separator element is dependent upon the operating environment (soot, dust, etc.) and should be replaced every twelve months or 2000 hours. To replace the element proceed as follows:

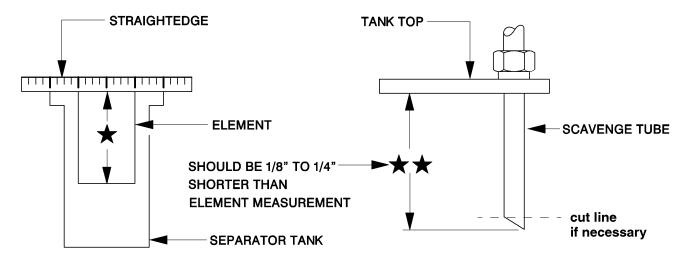
- Ensure the tank pressure is zero.
- Disconnect the hose from the scavenge tube.
- Remove scavenge tube from tank cover.
- Disconnect service line from cover.
- Remove cover mounting screws.
- Remove cover and element.
- Remove any gasket material left on cover or tank.
- Install new element.

NOTICE

Do not remove staples from the element/gasket connection.

- Place a straightedge across top of element and measure from bottom of straightedge to bottom of element.
- Replace scavenge tube in cover (cover is still off of tank).
- Measure from bottom of cover to end of scavenge tube. Measurement should be from 1/8" to 1/4" less than the element measurement. If not, cut to size.
- Remove scavenge tube.
- Reposition cover (use care not to damage gaskets).
- Replace cover mounting screws: tighten in a crisscross pattern.
- Reconnect service line. Replace scavenge tube.
 Reconnect hose.
- Close service valve. Start unit and look for leaks.

When replacing the element, the scavenge lines, orifice, filter, and check valve should be thoroughly cleaned and the oil changed.



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SCAVENGE LINE

WARNING

High pressure air can cause severe injury or death from hot oil and flying parts. Always relieve pressure before removing caps, plugs, covers or other parts from pressurized air system.

The scavenge line originates at the receiver-separator tank cover and terminates at the compressor airend near the oil filter element. An orifice check valve is located on the scavenge tube.

Once a year or every 1000 hours of operation, whichever comes first, replace the separator element and clean the scavenge orifice/check valve.

Excessive oil carry-over may be caused by an oillogged separator element. Do not replace element without first performing the following maintenance procedure:

- 1. Check oil level. Maintain as indicated earlier in this section.
- 2. Thoroughly clean scavenge line, any orifice and check valve.
- 3. Assure minimum pressure valve/orifice is operational.
- 4. Run unit at rated operating pressure for 30 to 40 minutes to permit element to clear itself.

EXTERIOR FINISH CARE

This unit was painted and heat cured at the factory with a high quality, thermoset polyester powder coating. The following care will ensure the longest possible life from this finish.

- If necessary to remove dust, pollen, etc. from housing, wash with water and soap or dish washing liquid detergent. Do not scrub with a rough cloth, pad, etc.
- If grease removal is needed, a fast evaporating alcohol or chlorinated solvent can be used.
 Note: This may cause some dulling of the paint finish.

3. If the paint has faded or chalked, the use of a commercial grade, non-abrasive car wax may partially restore the color and gloss.

Field Repair of Texture Paint

- The sheet metal should be washed and clean of foreign material and then thoroughly dried.
- Clean and remove all grease and wax from the area to be painted using Duponts 3900S Cleaner prior to sanding.
- 3. Use 320 grit sanding paper to repair any scratches or defects necessary.
- 4. Scuff sand the entire area to be painted with a red scotch brite pad.
- 5. Wipe the area clean using Duponts 3900S.
- 6. Blow and tack the area to be painted.
- 7. Apply a smooth coat of Duponts 1854S Tuffcoat Primer to all bare metal areas and allow to dry.
- 8. Apply 2 medium wet coats of Duponts 222S Adhesion Promoter over the entire area to be painted, with a 5 minute flash in between coats.
- 9. To apply the texture coat, use Duponts 1854S Tuffcoat Primer. The proper technique to do this is to spray the Tuffcoat Primer using a pressure pot and use about 2–5 pounds of air pressure. This will allow the primer to splatter causing the textured look. Note: you must be careful not to put too much primer on at one time, this will effect the amount of texture that you are trying to achieve. Allow the texture coat to flash for 20 minutes or until dry to touch.
- Apply any of Duponts Topcoat Finishes such as Imron™ or Centari™ according to the label instructions.

Note: To re-top coat the textured surfaces when sheet metal repairs are not necessary, follow steps 1, 2, 4, 5, 6, 8 and 10.

MAINTENANCE SCHEDULE

These time periods should be reduced if operating in extreme conditions (very hot, cold, dusty or wet).

		Daily	Weekly	Monthly	3 MOS.	6 MOS.	12 MOS.
SMALL UNITS (P100-P600)					250 hours	500 hours	1000 hours
LARGE UNITS (HP600-P1600)			500 hours	1000 hours	2000 hours		
**Hydraulic Oil Level			С			R	
Compressor Oil Level		С					
Engine Oil Level		С			1		
**Radiator Coolant Level		С					
Gauges/Lamps		С					
Air Cleaner Service Indicators		С					
Fuel Tank (fill at end of day)		С				DRAIN	
**Fuel/Water Separator	DRAIN	С			İ		
Air Cleaner Precleaner Dumps			С				
Fan/Alternator Belts			С				
Battery Connections/Electrolyte			С				
**Tire Pressure and Surface			С				
**Wheel Lug Nuts				С			
Hoses (oil, air, intake, etc.)				С			
Automatic Shutdown System	Test			С			
Air Cleaner System	Visual			С			
Compressor Oil Cooler	Exterior			С	CLEAN		
**Engine Radiator	Exterior			С	CLEAN		
Fasteners, Guards					С		
Air Cleaner Elements					WI		
** Fuel/Water Separator Element						R	
*Compressor Oil Filter Element					В	Α	
*Compressor Oil						R	
**Wheels (bearings, seals, etc)						С	С
Engine Coolant	Test					С	R
Shutdown Switch Settings	Test						С
Scavenge Orifice & related parts							CLEAN
Oil Separator Element							R
**Lights (running, brake, & turn)		СВТ					
**Pintle Eye Bolts		СВТ					
Engine (oil changes, oil & fuel filters,	etc)				R		

^{**}Disregard if not appropriate for this particular machine.

*NXP Units - consult manual

R=replace, C=check (adjust if necessary), WI=OR when indicated, CBT = check before towing.

A = Small Units

B = Large Units

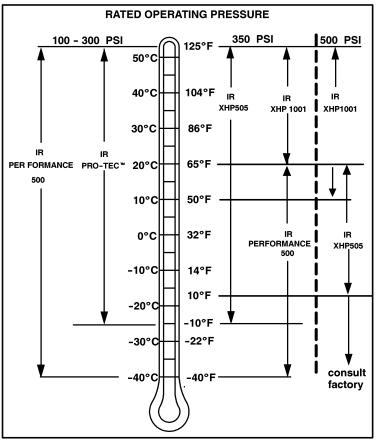
Refer to specific sections of the operator's manual for more information.

SECTION 7 - COMPRESSOR LUBRICATION

Portable Compressor Fluid Chart

Refer to these charts for correct compressor fluid required. Note that the selection of fluid is dependent on the design operating pressure of the machine and the ambient temperature expected to be encountered before the next oil change.

Design Operating Pressure	Ambient Temperature	Specification
100 psi to 300 psi	-10°F to 125°F (-23°C to 52°C)	IR Pro-Tec™ Mil –PRF 2104G SAE 10W
100 psi to 300 psi	-40°F to 125°F (-40°C to 52°C)	IR Performance 500 Mil-L-46167
350 psi	-10°F to 125°F (-23°C to 52°C)	IR XHP 505
	65°F to 125°F (18°C to 52°C)	IR XHP1001
	-40°F to 65°F (-40°C to 18°C)	IR Performance 500 Mil-L-46167
500 psi	50°F to 125°F (10°C to 52°C)	IR XHP1001
	10°F to 65°F (-12°C to 18°C)	IR XHP 505
	below 10°F (-12°C)	Consult Factory



Recommended Ingersoll-Rand Fluids - Use of these fluids with original I-R filters can extend airend warranty. Refer to operator's manual warranty section for details or contact your I-R representative.

Compressor Fluid	1 Gal. (3.8 Litre)	5 Gal. (19.0 Litre)	55 Gal. (208.2 Litre)
IR Pro-Tec™ IR XHP 505 IR Performance 500 IR XHP1001	36899698 35382928	36899706 54418835 35382936 35612738	36899714 54418843 35382944 35300516
Engine Fluid			
IR Pro-Tec™	54480918	36875938	36866903

Section 8 - Trouble Shooting

INTRODUCTION

Trouble shooting for a portable air compressor is an organized study of a particular problem or series of problems and a planned method of procedure for investigation and correction. The trouble shooting chart that follows includes some of the problems that an operator may encounter during the operation of a portable compressor.

The chart does not attempt to list all of the troubles that may occur, nor does it attempt to give all of the answers for correction of the problems. The chart does give those problems that are most apt to occur. To use the trouble shooting chart:

- A. Find the "complaint" depicted as a bold heading.
- B. Follow down that column to find the potential cause or causes. The causes are listed in order to suggest an order to follow in trouble shooting.

ACTION PLAN

A. Think Before Acting

Study the problem thoroughly and ask yourself these questions:

- (1) What were the warning signals that preceded the trouble?
- (2) Has a similar trouble occurred before?
- (3) What previous maintenance work has been done?
- (4) If the compressor will still operate, is it safe to continue operating it to make further checks?

B. Do The Simplest Things First

Most troubles are simple and easily corrected. For example, most complaints are "low capacity" which may be caused by too low an engine speed or "compressor over- heats" which may be caused by low oil level.

Always check the easiest and most obvious things first; following this simple rule will save time and trouble.

Note: For trouble shooting electrical problems, refer to the Wiring Diagram Schematic.

C. Double Check Before Disassembly

The source of most compressor troubles can be traced not to one component alone, but to the relationship of one component with another. Too often, a compressor can be partially disassembled in search of the cause of a certain trouble and all evidence is destroyed during disassembly. Check again to be sure an easy solution to the problem has not been overlooked.

D. Find And Correct Basic Cause

After a mechanical failure has been corrected, be sure to locate and correct the cause of the trouble so the same failure will not be repeated. A complaint of "premature breakdown" may be corrected by repairing any improper wiring connections, but something caused the defective wiring. The cause may be excessive vibration.

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TROUBLE SHOOTING CHART

Bold Headings depict the COMPLAINT - Subheadings depict the CAUSE

Note: Subheadings suggest order to follow in cause of troubleshooting.

Short Air Cleaner Life:

Dirty Operating Conditions Inadequate Element Cleaning Defective Service Indicator Incorrect Stopping Procedure Wrong Air Filter Element

Excessive Oil In Air:

High Oil Level
Out of Level > 15 degrees
Clogged Scavenge Orifice
Scavenge Tube Blocked
Defective Scavenge Check Valve
Sep. Tank Blown Down Too Quickly
Defective Minimum Pressure Valve
Defective Separator Element

Will Not Unload:

Leaks in Regulator Piping Incorrect Pressure Regulator Adjustment Malfunctioning Pressure Regulator Malfunctioning Inlet Unloader/Butterfly Valve Ice in Regulation Lines/Orifice

Oil In Air Cleaner:

Incorrect Stopping Procedure

Safety Valve Relieves:

Leaks In Regulator Piping
Incorrect Pressure Regulator Adjustment
Malfunctioning Pressure Regulator
Malfunctioning Inlet Unloader/Butterfly Valve
Defective Separator Element
Ice in Regulation Lines/Orifice
Defective Safety Valve

Excessive Compressor Oil Temperature:

Ambient Temperature Too High
Out of Level > 15 degrees
Low Oil Level
Dirty Cooler
Dirty Operating Conditions
Loose or Broken Belts
Operating Pressure Too High
Malfunctioning Thermostat
Defective Minimum Pressure Valve
Blocked or Restricted Oil Lines
Airend Malfunctioning

Engine RPM Low:

Clogged Fuel Filter
Operating Pressure Too High
Incorrect Pressure Regulator Adjustment
Dirty Air Filter
Malfunctioning Speed Control Cylinder
Defective Separator Element
Ice In Regulation Lines/Orifice
Engine Malfunctioning
Airend Malfunctioning

Excessive Vibration:

Low Engine RPM
Rubber Mounts Damaged
Out of Balance Fan
Engine Malfunctioning
Airend Malfunctioning

Low CFM:

Low Engine RPM
Dirty Air Filter
Incorrect Linkage Adjustment
Incorrect Pressure Regulator Adjustment
Malfunctioning Inlet Unloader/Butterfly Valve
Malfunctioning Speed Control Cylinder
Defective Minimum Pressure Valve
Defective Separator Element

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Unit Shutdown:

Out of Fuel

Compressor Oil Temp. Too High Engine Oil Pressure Too Low Broken Engine Fan Belt Loose Wire Connection Defective Switches

Defective Shutdown Solenoid

Malfunctioning Relay

Blown Fuse

Engine Malfunctioning Airend Malfunctioning

Won't Start/Run:

Low Battery Voltage

Blown Fuse

Malfunctioning Start Switch

Clogged Fuel Filters

Out of Fuel

Compressor Oil Temp. Too High Engine Water Temp. Too High Engine Oil Pressure Too Low Loose Wire Connection

Defective Switches Malfunctioning Relay Engine Malfunctioning Airend Malfunctioning

Unit Fails To Shutdown:

Defective Switches
Defective Shutdown Solenoid
Malfunctioning Relay
Defective Start Switch

Engine Temperature Lamps Stays On:

Broken Engine Fan Belt
Malfunctioning Circuit Board
Defective Engine Belt Break Switch
Ambient Temperature Too High
Dirty Operating Conditions
Dirty Cooler
Out of Level >15 degrees
Operating Pressure Too High

Alternator Lamp Stays On:

Loose or Broken Belts Loose Wire Connection Defective Battery Malfunctioning Alternator Malfunctioning Circuit Board

Engine Oil Pressure Lamp Stays On:

Low Oil Level Out of Level >15 degrees Wrong Lube Oil Engine Malfunctioning

Alternator Lamp Stays Off:

Loose Wire Connection Malfunctioning Circuit Board

Engine Temperature Lamps Stays Off:

Bulb Burned Out Loose Wire Connection Malfunctioning Circuit Board Defective Engine Belt Break Switch

Engine Oil Pressure Lamp Stays Off:

Bulb Burned Out Malfunctioning Circuit Board Defective Engine Oil Pressure Switch Engine Malfunctioning

SECTION 9- ENGINE

1.	ENGINE EXTERNAL VIEWS
2.	GENERAL INFORMATION
	1. STANDARD ENGINE DATA AND SPECIFICATIONS
	2. ENGINE IDENTIFICATION
	3. ENGINE AFTER SERVICE
3.	FUEL, LUBRICANT, AND COOLANT
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	2. LUBRICANT
	3. COOLANT
4.	ENGINE OPERATION
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	2. CHECK AND OPERATION AFTER THE ENGINE START-UP
	3. CARE IN THE ENGINE OPERATION
	4. OPERATION AND CARE FOR NEW ENGINE
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	2. COOLING SYSTEM
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	5. ENGINE ELECTRICAL
	6. ENGINE ASSEMBLY AND OTHERS
<i>6</i> .	ENGINE CARE IN COLD SEASON
7.	ENGINE MAINTENANCE SCHEDULE
8.	SIMPLE ENGINE TROUBLESHOOTING

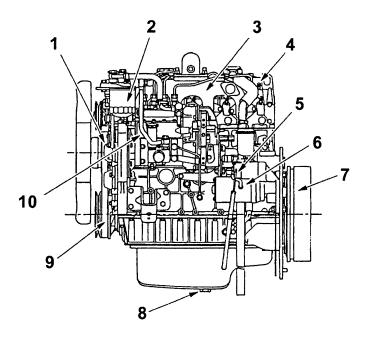
CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

1. ENGINE EXTERNAL VIEWS

1. EXTERNAL VIEW (LH)

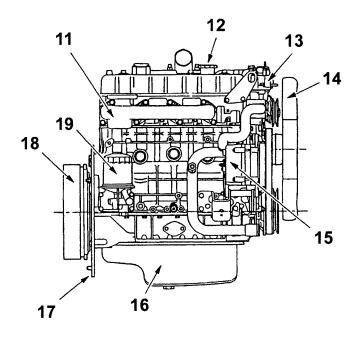


Note: Engine details may vary depending on the specifications

- Water pump
- 2. Fuel filter
- 3. Inlet manifold
- 4. Nozzle holder
- 5. Dipstick

- 6. Starter
- 7. Flywheel
- 8. Drain plug
- 9. Crank pulley
- 10. Injection pump

2. EXTERNAL VIEW (RH)



Note: Engine details may vary depending on the specifications

- 11. Exhaust manifold
- 12. Oil filler cap
- 13. Thermostat housing
- 14. Cooling fan
- 15. Alternator

- **16.** Oil pan
- 17. Rear plate
- 18. Flywheel
- 19. Oil filter

2. GENERAL INFORMATION

1. STANDARD ENGINE DATA AND SPECIFICATIONS

(1) Model 4IRJ7T (IN-LINE INJECTION PUMP TYPE)

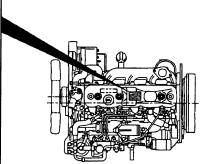
Ingersoll-Rand eng	ine model name	4IRJ7T				
Engine type		Water-Cooled, four cycle, in-line overhead valve type				
Combustion type		Direct Injection				
No. of cylinders - b	ore x stroke mm (in)	4-95.4 x 107 (3.76 x 4.21)				
Engine displacement L (cid)		3.059 (186.7)				
Compression ratio		18.6 to 1				
Firing order		1-3-4-2				
Max. rated power: S	SAE NET (hp)/min ⁻¹	79 HP @ 2300 rpm				
Exhaust emission c	ontrol system	Engine modification				
Injection pump		In-line, Mechanical				
Governor		Variable speed, Mechanical type				
Injection nozzles		Multi-hole type				
Specified fuel		Diesel fuel (ASTM D975 No. 2-D)				
Starter (V-kW)		12 - 2.2				
Alternator (V-A)		12 - 50				
Specified engine oil (API grade)		CD				
Lub. oil volume (Oil	pan) L(qts)	9.6 - 7.6 (10.1 - 8.0)				
Coolant volume (En	gine only) lit(qts)	4.5 (4.8)				
Engine dry weight k	g(lb)	244 (538)				
	Overall length mm (in)	809 (31.8)				
Engine dimensions	Overall width mm (in)	606 (23.9)				
Overall height mm (in)		709 (27.9)				
/alve clearance (cold) ı	mm (in)	0.4 (0.0157)				
lozzle injection pressu	re MPa (psi)	18.1 (2.625)				
njection timing B.T.D.C	C. (Static)	12°				
Maker and type of turbocharger		NA				

EMISSION CONTROL LABEL: ENGINE LABEL (FOR EPA) - TYPE A

Emission control label is attached on the center, upper side of cylinder head cover. But the same emission control label is attached at a visible point on the equipment when the label that is attached to the engine is not visible due to the structure of the equipment.

The following is the sample of a label required for engine emission control information, along with location.

IMPORTANT ENGINE INFORMATION	
ENGINE FAMILY :XXXXXXX.XXXX	* ENGINE SPECIFICATION ADVERTISED MAX.POWER.
ENGINE CODE :XXXX	SAE NET (FAN DISENGAGED) XXkW/XXXX min ⁻¹ XXHP/XXXX RPM
MODEL:XXXX	FUEL RATE XX mm³/st
ENGINE DISPLACEMENT :XXXXcm ³ (:XXX IN ³):	VALVE LASH (COLD) IN X.X mm. EXH X.X mm
EXHAUST EMISSION CONTROL SYSTEM :EM	INITIAL INJECTION TIMING XX° BTDC
DATE OF ENGINE MANUFACTURE :XX / XX	CURB IDLE: XXXmin-1/RPM
THIS ENGINE IS CERTIFIED TO OPERATE ON DIESEL FUEL	(*MODEL SPECIFICATION SEE SERVICE MANUAL)
THIS ENGINE CONFORMS TO U.S. EPA	P.NO. X—XXXXX—XXX—X
REGULATIONS APPLICABLE TO 1999 MODEL YEAR LARGE NONROAD COM- PRESSION-IGNITION ENGINES.	



2. ENGINE IDENTIFICATION

(1) Position of Display

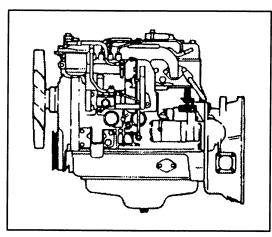


Fig. 3

The engine serial number is stamped on the rear left of cylinder body, near the upper starter. Engine model is described on an ID label on the left side of the cylinder head cover

3. ENGINE AFTER SERVICE

(1) Ingersoll-Rand Engine After Service

Please feel free to contact your Ingersoll-Rand dealer for periodical inspection and maintenance.

(2) Ingersoll-Rand Genuine Parts

The Ingersoll-Rand genuine parts are identical with those of used in the engine production, and accordingly, they are warranted by Ingersoll-Rand.

The Ingersoll-Rand genuine parts are supplied by Ingersoll-Rand distributors. Please designate "Ingersoll-Rand Genuine Parts" when you need engine parts.

3. FUEL, LUBRICANTS, AND COOLANT

1. FUEL

(1) Fuel Selection

The following specific advantages are required for the diesel fuel.

- 1) Must be free from minute dust particles.
- 2) Must have adequate viscosity.

- 3) Must have high cetane value.
- 4) Must have high fluidity at low temperature.
- Must have low sulfur content.
- 6) Must have little residual carbon.

Diesel fuels

APPLICABLE STANDARD	RECOMMENDATION
JIS (JAPANESE INDUSTRIAL STANDARD)	NO.2
DIN (DEUTSCHE INDUSTRIE NORMEN)	DIN 51601
SAE (SOCIETY OF AUTOMOTIVE ENGINEERS) Based on SAE-J-313C	NO.2-D
BS (BRITISH STANDARD) Based on BS/2869-1970	Class A-1

If fuel other than the specified one is used, engine function will be affected.

(2) Fuel Requirements

NOTICE:

The fuel injection pump, injector or other parts of the fuel system and engine can be damaged if you use any fuel or fuel additive other than those specifically recommended by Ingersoll-Rand.

Such damage is not Ingersoll-Rand's responsibility and is not covered by the warranty To help avoid fuel system or engine damage, please heed the following:

- Some service stations mix used engine oil with diesel fuel. Some manufacturers of large diesel engines allow this; however, for your diesel engine, do not use diesel fuel which has been contaminated with engine oil. Besides causing engine damage, such fuel can also affect emission control. Before using any diesel fuel, check with the service station operator to see if the fuel has been mixed with engine oil.
- Do not use any fuel additive (other than as recommended under "Biocide" in this section). At the time this manual was printed, no other fuel additive was recommended.

(See your authorized dealer to find out if this has changed.)

Your engine is designed to use either Number 1–D or Number 2–D diesel fuel. However, for better fuel economy, use Number 2–D diesel fuel whenever possible. At temperatures less than—7°C, (20°F), Number 2–D fuel may pose operating problems (see "Cold Weather Operation" which follows). At colder temperatures, use Number 1–D fuel (if available) or use a "winterized" Number 2–D (a blend of Number 1–D and Number 2–D). This blended fuel is usually called Number 2–D also, but can be used in colder temperatures than Number 2–D fuel which has not been "winterized." Check with the service station operator to be sure you get the properly blended fuel. Note that diesel fuel may foam during a fill–up. This can cause the automatic pump nozzle to shut off even though your tank is not full.

NOTICE

Do not use home heating oil or gasoline in your diesel engine; either may cause engine damage.

(3) Handling of the Fuel

Fuel containing dust particles or water will cause engine failure. Therefore;

1) Take care to prevent dust particles or water from contaminating the fuel when filling the fuel tank.

When fueling is done from an oil drum directly, allow the fuel to set long enough for contaminates to settle.

2) Always fully fill the fuel tank. Drain the fuel tank frequently.

(4) Water in Fuel

During refueling, it is possible for water (and other contaminants) to be pumped into your fuel tank along with the diesel fuel. This can happen if a service station does not regularly inspect and clean its fuel tanks, or if a service station receives contaminated fuel from its supplier(s). To protect your engine from contaminated fuel, there is a fuel filter system on the engine which allows you to drain excess water.

CAUTION:

The water/diesel fuel mixture is flammable, and could be hot. To help avoid personal injury and/or property damage, do not touch the fuel coming from the drain valve, and do not expose the fuel to open flames or sparks. Be sure you do not overfill the container. Heat (such as from the engine) can cause the fuel to expand. If the container is too full, fuel could be forced out of the container. This could lead to a fire and the risk of personal injury and/or vehicle or equipment damage.

(5) Biocides

In warm or humid weather, fungus and/or bacteria may form in diesel fuel if there is water in the fuel.

NOTICE:

Fungus or bacteria can cause fuel system damage by plugging the fuel lines, fuel filters or injector. They can also cause fuel system corrosion.

If fungus or bacteria has caused fuel system problems, you should have your authorized dealer correct these problems. Then, use a diesel fuel biocide to sterilize the fuel system (follow the biocide manufacturer's instructions). Biocides are available from your dealer, service stations, parts stores and other automotive places. See your authorized dealer for advice on using biocides in your area and for recommendations on which biocides you should use.

(6) Smoke Suppressants

Because of extensive testing of treated fuel versus untreated fuel, the use of a smoke suppressant additive is not recommended because of the greater possibility of stuck rings and valve failure, resulting from excessive ash deposits.

2. LUBRICANT

The quality of engine oil may affect engine performance, startability and engine life.

Use of unsuitable engine oil will result in piston ring, piston and cylinder seizure and accelerate the sliding surface wear causing increased oil consumption, lowered output and, finally engine failure. To avoid this, use the specified engine oil.

(1) Engine Oil Selection

API, CC or CD grade

(2) Oil Viscosity

Engine oil viscosity affects engine startability, performance, oil consumption, speed of wearing and occurence of seizure, etc. Using lubricants whose viscosity selected according to the atmospheric temperature is important.

NOTICE:

- 1) Using a mixture of different brand or quality oils will adversely affect the original oil quality; therefore, never mix different brand or different type oils.
- 2) Don't use API, CA, CB grade and reconstituted engine oil.
- Engine damage due to improper maintenance, or using oil of the improper quality and/or viscosity, is not covered by the warranty.

Must use Ingersoll-Rand Pro-TecTM for optional Platinum Extended Engine Warranty.

Recommended Ingersoll-Rand fluids use of these fluids with original I-R filters can extend engine warranty. Refer to operator's manual warranty section for details or contact your I-R representative.

Recommended Fluid	1 Gal.	5 Gal.	45 Gal.
Pro-tec Engine Fluid (15W-40)	54480918	36875938	36866903

4. ENGINE OPERATION

Engine Exhaust Gas Caution (Carbon Monoxide)

CAUTION:

Do not breath exhaust gas because it contains carbon monoxide, which by itself has no color or odor. Carbon monoxide is a dangerous gas. It can cause unconsciousness and can be lethal.

Do not run the engine in confined areas. Keep the exhaust tailpipe area clear of snow and other material to help reduce the buildup of exhaust gases.

1. CHECK BEFORE OPERATION

CAUTION:

For Safety's sake, conduct the inspection before start-up with the engine stopped.

(1) Engine Oil Level Insert-type dipstick

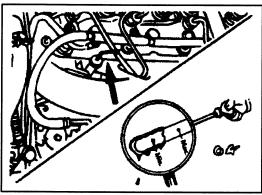


Fig. 6

- 1) Check with machine in level position.
- 2) Remove the dipstick from the crankcase, wipe it with a cloth. Insert fully and remove again.

Check the oil level by the level marks on the dipstick. The oil level must be between the "Max" level mark and the "Mm" level mark as illustrated.

Take care not to add too much engine oil.

- Drain oil to the max. oil level if oil level is above the max. level mark.
- Add oil to the max. oil level if oil level is below the mm. level mark.

Engine oil replenishment

Oil is poured through the oil filler at the front of the cylinder head cover.

A certain period of time is required before the engine oil completely flows down from the oil filler to the crankcase. Check the oil level ten or twenty minutes after oil replenishment.

NOTICE:

If the engine oil is splashed on the fan drive belt, it causes belt slippage or slackness; therefore, take care to avoid it.

CAUTION:

In adding oil, take care not to spill it. If you spill oil on engine or equipment, wipe it properly, or this could lead to a fire and the risk of personal injury and/or equipment damage.

(2) Fan Belt Check

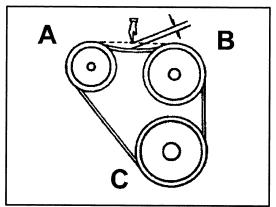


Fig. 8

- A Alternator pulley
- B Fan pulley
- C Crank pulley

Check the fan belt for tension and abnormalities.

1) When the belt is depressed **about 8 to 12 mm (0.31 to 0.47 in)** with the thumb [about 98 N (10 kgf/22 lb) pressure] at midway between the fan pulley and alternator pulley, the belt tension is correct.

When the belt tension is too high, it will result in alternator failure. Contrarily, loose belt will cause belt slipage which may result in damaged belt and abnormal noise.

2) Check the belts. Replace them if any damage is found.

NOTICE:

Replace all belts as a set even when one is not usable. Single belt of similar size must not be used as a substitute for a matched belt set. Otherwise, premature belt wear would result because of uneven belt length.

(3) Coolant Level Check

1) Remove the radiator filler cap, and check the coolant level.

CAUTION:

When removing the radiator filler cap while the engine is still hot, cover the cap with clothing, then turn it slowly to gradually release the internal steam pressure.

2) Use clean drinking water as coolant. When an anti-freeze solution is required, keep to the specified mixing ratio.

(4) Radiator Cap Condition

After adding coolant, install the radiator cap. Make sure the cap is securely installed.

(5) Battery Cable Connection

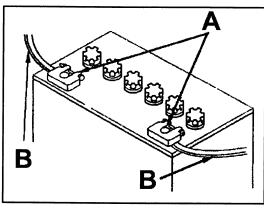


Fig. 9

- **A** Connections
- B Battery cable

Check the battery cable connections for looseness or corrosion. The loosened cable connection will result in hard engine starting or insufficient battery charge.

The battery cables must be tightened securely.

Never reverse "+" and "—" terminals when reconnecting cables after disconnection.

Even a short period of reverse connection will damage the electrical parts.

(6) Battery Electrolyte Level

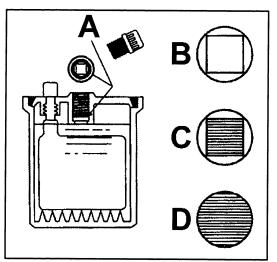


Fig. 10

- A Regular position
- B Shortage
- C Proper
- **D** Excess

The amount of electrolyte in the batteries will be reduced after repeated discharge and recharge.

Check the electrolyte for the level in the batteries, replenish with a commercially available electrolyte such as distilled water, if necessary.

The battery electrolyte level checking procedure will vary with battery type. Follow the equipment manufacturer's instructions.

NOTICE:

Do not replenish with dilute sulfuric acid in the daily service.

2. CHECK AND OPERATION AFTER THE ENGINE START-UP

(1) Warm-up Operation

Allow engine to warm about ten minutes after the engine has started.

(2) Check after the Engine Start-up

Check the following items in the engine warm-up operation.

Engine oil pressure (Gauge Optional)

Although the engine oil pressure gauge readings vary depending on ambient temperature or type of oil, the gauge registers around 392 to 490 kPa (4 to 5kgf/cm²/57 to 71 psi) during warm-up.

In the oil pressure warning lamp type, make sure that the lamp is off.

Charge Condition (Ammeter Optional)

Gauge should read in normal range shortly after starting.

Engine noise and exhaust smoke colour

Pay attention to engine noise and, if any abnormal noise is heard, check the engine to detect the cause.

Check the fuel combustion condition by exhaust smoke colour. The exhaust smoke colour after engine warming-up and at no-load operation:

Colourless or light blue	Normal (Perfect combustion)
Black colour	Abnormal (Imperfect combustion)
White colour	Abnormal (Imperfect combustion)

NOTICE:

Engine noise after start-up might be noisy than that of warmed-up engine and, the exhaust smoke colour also being more blackish than the normal condition. However, it will be normalized after warming-up engine.

Leakage in the systems

Check the following items:

Lube oil leakage

Check both sides and bottom of the engine assembly for lube oil leaks, paying particular attention to the lube oil pressure gauge pipe joint, lube oil filter and lube oil pipe joints.

Fuel leakage

Check the fuel injection pump, fuel lines and fuel filter for leakage.

Coolant leakage

Check the radiator and water pump hose connections also the water drain cocks on the radiator and cylinder body for leakage.

Exhaust smoke or gas leakage

Checking coolant level

The coolant level could drop because air is expelled about 5 minutes after the engine started.

Stop the engine, remove radiator cap, and add coolant.

CAUTION:

Hot steam will rush out and you could get burnt, if the radiator cap is removed when the engine is hot. Cover the radiator cap with a thick cloth and loosen the cap slowly to reduce the pressure, then remove the cap.

3. CARE IN THE ENGINE OPERATION

In the engine operation, always pay attention to the following items if the engine indicates any sign of abnormalities.

(1) Engine Oil Pressure

Engine oil pressure is normal when the oil pressure gauge shows 294 to 392 kPa (3 to 4 kgf/cm²/43 to 57 psi) in the engine warmed-up condition.

In the continuous engine operation, engine oil pressure is slightly lower than the pressure at start-up time. When the engine oil pressure gauge shows the following abnormal conditions, stop the engine immediately and check the engine oil amount in the oil sump and look for oil leakage:

- The engine oil pressure gauge shows below 196 kPa (2 kgf/cm²/28 psi) though the engine speed is raised.
- The oil pressure gauge indicator oscillates greatly in the engine low speed range.

When no lack of engine oil or no oil leakage is found, contact your equipment supplier to determine the cause of the abnormal reading.

(2) Coolant Temperature

The engine performance will be adversely affected if engine coolant temperature is too hot or too cold.

The normal coolant temperature is 75 to 85°C (167 to 185°F).

Overheating

The engine cooling system may overheat if the engine coolant level is too low, if there is a sudden loss of engine coolant (such as hose splitting), or if other problems occur.

Overcooling

The engine operation at low coolant temperature will not only increase the oil and fuel consumption but also will lead to premature parts wear which may result in engine failure.

(3) Engine Hourmeter (Engine Operation Hour Indicating)

This meter indicates the engine operation hours. Make sure that the meter is always working during engine operation. Periodical engine maintenance is scheduled on the operation hours indicated on the hourmeter.

(4) Liquid and Exhaust Smoke Leakage

Be careful with lubricant, fuel, coolant and exhaust smoke leakage.

(5) Abnormal Engine Noise

Pay attention to the noise from the engine or other related parts, checking if the noise is normal.

(6) State of the Exhaust Smoke

Be careful with exhaust smoke colour, check if it is whitish or blackish

4. OPERATION AND CARE FOR NEW ENGINE

Your Ingersoll-Rand engine is carefully tested and adjusted in the factory, however, further, thorough run-in (i.e. break-in) operation is necessary.

If the new engine is harshly operated, lubricating oil film will be reduced leading to abnormal wear or seizure. Particularly, avoid a harsh engine operation within the initial 100 operation hours observing the following notice.

- (1) Do the warming-up operation continuously until the engine is warmed-up. In this operation, do not race the engine.
- (2) Also do not operate the engine with rapid acceleration, rapid machine starting and continuous high speed operation

5. ENGINE CARE FOR OVER-COOLING

Engine over-cooling causes premature wear and increased fuel consumption. Maintain the coolant temperature 75 to 85°C(167 to 185°F).

6. STARTING THE ENGINE AFTER BEING LEFT UNUSED FOR A LONG PERIOD OF TIME

When the vehicle or equipment is left unused for "more than three months" without running the engine (warming up), conduct a thorough inspection of the vehicle before starting the engine. After starting the engine, be sure to warm it up for more than ten minutes.

5. PERIODICAL INSPECTION AND MAINTENANCE

1. LUBRICATING SYSTEM

Servicing of the engine oil or the oil filter element will affect on the engine performance as well as the engine life. Change the engine oil and the oil filter element periodically with the specified ones.

(1) Engine Oil and Oil Filter Element Change

Engine oil change and oil filter element change must be made according to the following change schedule.

Change interval

Engine Oil	Initial 50 and thereafter every 500 operating hours
Oil Filter Element	Initial 50 and therefore every 500 operating hours

Engine oil draining

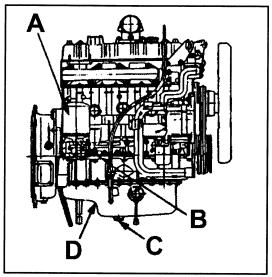


Fig. 14

- A Oil filter
- B Drain plug
- C Drain plug
- D Oil pan

CAUTION:

To help avoid the damage of being burned, do not drain oil while the engine is still hot.

1) Wipe the oil filler cap taking care to remove foreign particles. Remove the filler cap.

Remove the following drain plugs to drain the engine oil completely.

- a. Drain plug at the oil pan.
- b. Drain plug at the main oil filter.

It is advisable that draining be done while the engine is warm. to minimize the draining time.

Oil filter element removal

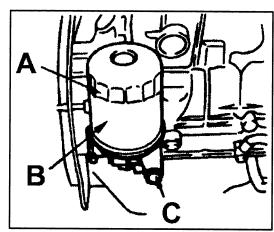


Fig. 15

- A Set the filter wrench
- B Cartridge
- C Drain plug
- 1) Warm the engine to or near normal operating temperature.
- 2) Loosen the oil drain bolt (see arrow) one full turn to allow the oil to drain out of the filter and down to the crankcase. (The time it takes to drain the oil from the oil pan is sufficient to thoroughly drain the filter.
- 3) Once drained, remove the drain bolt entirely and replace the O-ring on the bolt (which is supplied with each Genuine IR oil filter).
- 4) Install the oil drain bolt. Tighten to 14 22 lb. ft. (20–30 Nm).

Oil filter element installation

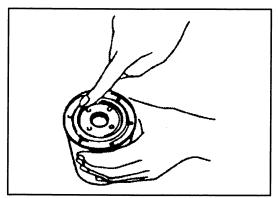


Fig. 16

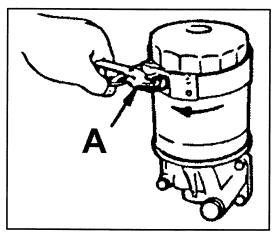


Fig. 17

A Filter wrench

- 1) Apply engine oil to the O-ring.
- 2) Rotate new cartridge until its sealed face comes in contact with the O-ring.
- 3) Use a filter wrench, tighten the cartridge 1 1/4 turns.

Engine oil refilling

- 1) Reinstall the drain plugs.
- 2) Fill with new engine oil at the oil filler port.

Wait about fifteen minutes until the oil gets down to the oil pan.

Then cheek the oil level.

(2) Check after Oil and Filter Changes

Oil leakage check

Idle the engine to raise the oil pressure, then check for oil leakage.

Oil level recheck

Stop the engine. Use the dipstick to recheck the oil level.

Replenish with engine oil, if necessary, to the specified level.

NOTICE:

When the engine is started, the oil level will drop slightly from the initial level as the oil fills the entire oil circuit.

(3) Engine Oil Additives

Engine oils contain a variety of additives. Your engine should not need any extra additives if you use the recommended oil quality and change intervals.

(4) Used Oil Disposal

Do not dispose of used engine oil (or any other oil) in a careless manner such as pouring it on the ground, into sewers, or into streams or bodies of water, Instead, recycle it by taking it to a used oil collection facility which may be found in your community. If you have a problem disposing of your used oil, it is suggested that you contact your dealer or service station.

(5) Used Engine Oil

CAUTION:

Used engine oil contains harmful contaminants that have caused skin cancer in laboratory animals. Avoid prolonged skin contact. Clean skin and nails thoroughly using soap and water -not mineral oil, fuels, or solvents. Launder or discard clothing, shoes, or rags containing used engine oil.

Discard used engine oil and other oil properly.

2. COOLING SYSTEM

(1) Fan Belt Tension Adjustment

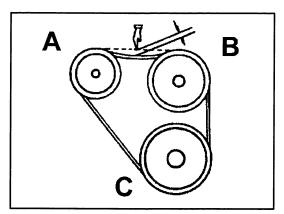


Fig. 18

- A Alternator pulley
- B Fan pulley
- C Crank pulley

Adjust fan belt tension when belt slackness is greater than the specified amount and when the belts are replaced.

CAUTION:

To help avoid injury, check and adjust fan belt tension with engine stopped.

Belt tension

Belt tension is normal when it is depressed 8 to 12 mm (0.31 to 0.47 in) with the thumb at the midway between the fan pulley and alternator pulley. [about 98 N (10 kgf/22 lb) depressing force.]

Fan belt slackness : About 8 - 12 mm (0.31 - 0.47 in)

Adjusting procedure

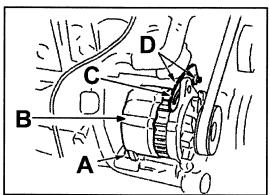


Fig. 19

- A loosen
- B Alternator
- C Adjust plate
- D loosen

Belt tension adjustment is made by pivoting the alternator at the alternator mounting bolt.

- 1) Loosen the alternator adjusting plate bolt and the alternator mounting bolt.
- 2) Pivot the alternator at the mounting bolt toward the engine left or right hand side as required.
- 3) Tighten the mounting bolt and the adjusting bolt.

NOTICE:

Belt tension may vary slightly after the alternator is fixed. Therefore, recheck the belt tension after tightening the holts

4) After the adjustment, operate the engine about five minutes at a low idle speed and recheck the belt tension. Particularly, pay attention to this matter when installing new belts. Belt tension may vary due to the initial belt conforming.

(2) Fan Belt Change

Use of fan belt with poor quality will result in premature belt wear or belt elongation leading to engine damage such as overheat. Therefore use of the Ingersoll-Rand genuine fan belts are recommended.

(3) Coolant Change

The coolant must be changed at intervals of **six months**. If the coolant is being fouled greatly, it will lead to engine overheat or coolant blow-off from the radiator.

Coolant draining

1) Remove the radiator cap.

Open the drain cock on the radiator to drain the coolant in the radiator.

CAUTION:

When removing the radiator filler cap while the engine is still hot, cover the cap with a rag, then turn it slowly to release the internal steam pressure. This will prevent a person from scalding with hot steam spouted out from the filler port.

 Drain away the coolant from the engine by loosening the water drain plug under the injection pump on the left side of cylinder body.

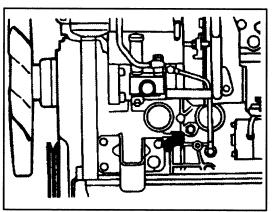


Fig. 20

Filling with coolant

- 1) Close or tighten the coolant drain plug.
- Use clean drinking water as a coolant. Fill up the radiator with the coolant until the level comes up to the filler port neck.

Fill gradually to prevent air entry.

Coolant volume (Engine only)

Refer to "Main Data Specifications"

3) Operate the engine about five minutes at a low idle speed, then the air contained in the coolant circuit is bled. The coolant level will drop.

Stop the engine to replenish with the coolant.

(4) Cleaning outside of Radiator

Mud or dried grass caught between radiator fins will block the air flow, resulting in lower cooling efficiency.

Clean the radiator fins with steam or compressed water.

(5) Cooling System Circuit Cleaning

When the cooling system circuit is fouled with water scales or sludge particles, cooling efficiency will be lowered.

Periodically clean the circuit interior with a cleaner.

Refer to the "Engine Maintenance Schedule".

3. FUEL SYSTEM

The fuel injection pump and fuel injection nozzles are precisely manufactured, and therefore, using the fuel which contains water or dust particles will result in either injection pump plunger seizure or injection nozzle seizure, and the fouled fuel filter element with sludge or dust particles lead to decreased engine output.

In addition, clogged filter element can cause low output or automatic air bleeding failure.

Perform inspection and maintenance periodically as follows:

(1) Removal of Water from the Fuel

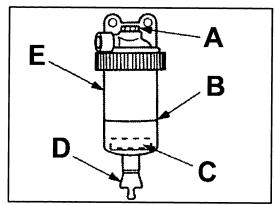


Fig. 21

- A Plug
- B Warning level line
- C Float
- D Drain plug
- E Water sedimentor

The fuel system with the water sedimentor.

The water sedimentor is provided to separate the water contained in the fuel.

The sedimentor housing contains a float which moves up and down in accordance with level change of the sedimented water. Be sure to drain the sedimented water when the float has come up to the warning level line marked on the transparent sedimentor housing.

Draining procedure:

Loosen the drain plug and drain the sedimented water. Be sure to tighten the drain plug on completion of draining.

A packing of the "plug" which is provided at the upper portion of the water sedimentor is not reusable. When the "plug" is loosened, be sure to replace the packing with a new one.

The fuel system without the water sedimentor

Drain the sedimented water in the fuel filter body every 250 operating hours

- 1) Loosen the cartridge
- 2) Drain the fuel in the cartridge with the mixed water.
- 3) Installation the cartridge. (Refer to fuel filter element change)

NOTICE:

- 1. The cartridge and cup contains fuel. Take care not to spill it during disassembly
- 2. Perform the "fuel system air bleeding" after the water in the fuel is drained.

(2) Fuel System Air Bleeding

The entry of air into the fuel system will cause hard engine starting or engine malfunction. When servicing the fuel system, be sure to perform air bleeding procedure.

Air bleeding procedure:

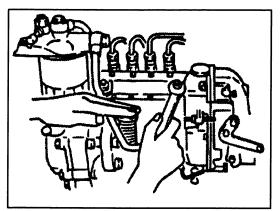


Fig. 22

- 1) Loosen the bleeding screws on the fuel injection pump.
- 2) Turn the feed pump knob counter clockwise until the pump knob is forced up by spring.
- 3) Depressing the pump knob will cause air mixed fuel to drain from the loosened bleeding screws.
- 4) Repeat the pumping action until no bubbles are visible in the flowing fuel.

No more bubble in the fuel indicates that air bleeding is completed.

Tighten the bleeding screws and the feed pump knob.

5) Start the engine and check the fuel system for fuel

(3) Fuel Filter Element Change Change interval

Every 500 operating hours

Change Procedure

NOTICE:

- 1 Be careful not to spill out the fuel remaining in the fuel filter when the filter is removed.
- 2. After draining the water from the fuel, conduct fuel air bleeding.

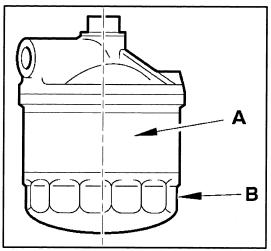


Fig. 23

- A Cartridge.
- B Set a filter wrench here.
- 1) Loosen the fuel filter turning it counterclockwise with a filter wrench. Discard the used fuel filter.
- 2) Clean the fitting face on the upper cover, so that new fuel filter can be seated properly.
- 3) Lightly oil the O-ring. To reinstall, turn the filter assembly clockwise carefully to prevent the fuel from spilling until the O-ring is fitted against the sealing face of the filter cover. Turn 2/3 turn further with the filter wrench.

Air bleeding

Do air bleeding on completion of fuel filter element change referring the description Fuel System Air Bleeding.

Feed Pump Strainer Cleaning

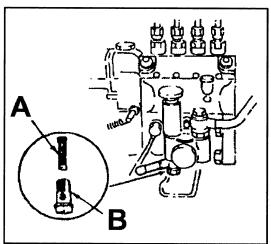


Fig. 24

- A Strainer
- **B** Joint bolt

Clean the feed pump strainer every 1000 operating hours. The strainer is incorporated in the feed pump inlet side joint bolt. Clean the strainer with compressed air and rinse it in fuel oil.

4) Fuel Injection Pump Control Seals

As the fuel injection pump is precisely adjusted, most of the controls are sealed, do not break them. When adjustment is necessary, contact you Ingersoll-Rand dealer.

NOTICE:

The manufacturer does not warrant the engine with the broken governor seals.

4. AIR INTAKE SYSTEM

(1) Air Cleaner

Engine performance and life vary with the air intake conditions. A dirty air cleaner element reduces the amount of intake air, causing reduced engine output.

A damaged element leads to abrasion of cylinders and valves, resulting in increased oil consumption, reduced output and shortened engine life.

NOTICE:

- 1. Shorten the cleaning or change interval when the equipment is used in dusty areas.
- 2. Change the element, if element damage is found during air cleaner cleaning.

5. ENGINE ELECTRICAL

The engines uses a 12 volt negative ground electrical system.

(1) Battery Servicing

Gravity of the batteries

The battery charge condition is judged by the electrolyte gravity measurement.

Periodically measure the electrolyte gravity of the batteries.

For the internal check follow the equipment manufacturer's standard.

The relationship between the electrolyte specific gravity and the battery conditions are as follows:

Electrolyte Specific Gravity	Battery Conditions
Over 1.300	Over 100% (Over charged)
1.290 - 1.270	100%
1.260 -1.240	75%
Below 1.230	Below 50% (Insufficiently charged)

NOTICE:

The battery electrolyte is dilute sulfuric acid. So. be careful not to stain your body and clothes with it. If stained, rinse portion in clean water.

Gravity conversion

The specified electrolyte temperature for the gravity measurement is 20°C (68°F).

Measure the electrolyte temperature and do the conversion in accordance with the following formula when the temperature does not fall to the specified temperature.

 $S_{20} = St + 0.0007 (t - 20)$

S20; gravity at 20°C St; gravity measured

t ; electrolyte temperature when measured Battery terminal connections

Battery terminal connections

Periodically, check the battery terminals for loose connection and corrosion.

For the check interval, follow the machine manufacturer's standard. Loose connection will cause hard engine starting or deficient battery charging.

If the terminals are excessively corroded, disconnect the battery cables and polish them with a wire brush or sandpaper.

Never reverse the "+" and "—" terminals when reconnecting the cables. Even a short period of reverse connection could damage the electrical parts.

Cleaning of Battery

When the battery is fouled clean it with clean water or tepid water and wipe them with a dry cloth to remove the water. Apply a light coat of vaseline or a grease to the battery post.

(2) Alternator Servicing

- The polarity of the alternator is negative grounding type. When an inverted circuit connection take place, the circuit will be in short circuit instantaneously resulting in alternator failure.
- Do not put water directly on the alternator. Entry of water into the alternator leads an electrolyte corrosion causing a alternator failure. Pay attention particularly when cleaning the engine.
- 3) When the battery is charged with a external electric source, be sure to disconnect the battery cables.

(3) Wiring Connections

Check all of the electric wiring connections for looseness and damage.

6. ENGINE ASSEMBLY AND OTHERS

To continue trouble free engine operation over a long period of time, the servicing items need a skilled maintenance technican, therefore, consult your machine supply source on the following items when necessary.

(1) Fuel Injection Nozzle

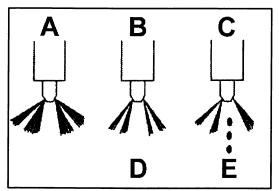


Fig. 28

- A Good
- B No good
- C No good
- **D** Thin Clogging
- E Dripping

Use an injection nozzle tester to check the static injection starting pressure and the fuel spray conditions.

Injection nozzle pressure test interval:

Every 500 operating hours.

When the injection starting pressure is too high or too low or the fuel spray pattern is improper, an abnormal fuel combustion take place in the engine causing lowered output and blackish exhaust smoke. Further, it causes a piston seizure or piston damage etc. In such cases, the injection nozzle test or the nozzle replacement is required.

Injection starting pressure 18.1 MPa (2630 psi)

NOTICE:

While using a nozzle tester, it may happen that high pressure blow off the light oil and injure the worker. Keep off the nozzle end.

(2) Valve Clearance Adjustment

The valve clearance must be adjusted every 1500 operating hours, or whenever the valve rocker is abnormally noisy.

Valve clearance : 0.40 mm (0.0157 in) (When the engine is cold.)

Adjustment Procedure

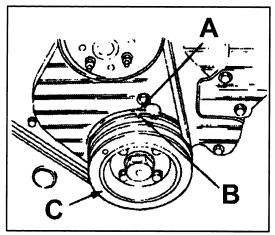


Fig. 29

- A Pointer
- B TDC Mark
- C Pulley
- 1) In order to bring No.1 or No. 4 cylinder to the top dead center in the compression stroke, align the TDC mark on the crank pulley with the pointer on the timing gear case.
- Do the adjustment on the circle marked valves in the below table where No. 1 cylinder is in the top dead center in the compression stroke.

After the above steps, do the adjustment on the double circle marked valves where No. 4 cylinder is on the top dead center in the compression stroke.

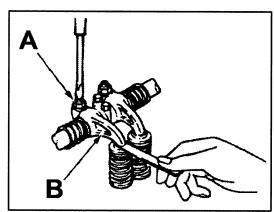


Fig. 30

- A Adjust screw
- B Rocker Arm

Cylinder No.	•	1		2	;	3	4	1
Valve arrangement	I	E	1	E	1	E	1	E
When No.1 cylinder is at TDC in the compression stroke	Х	х	Х			х		
When No.4 cylinder is at TDC in the compression stroke				х	Х		Х	х

Fig. 31

3) After the adjustment started from either piston top dead center, turn the crankshaft 360° to align the TDC mark and the pointer to do the adjustment again on the remaining valve.

(3) Injection Timing Check and Adjust

Improper injection timing causes serious engine failure such as blackish exhaust smoke, poor engine output and engine breakage etc.

In normal servicing, this check and adjustment is unnecessary, however, it might be necessary in conjunction with a related works.

Check procedure

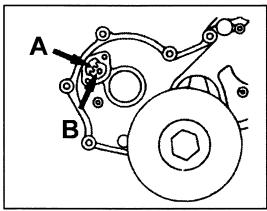


Fig. 32

- A Pointer A
- B Mark "0" B

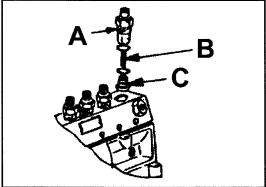


Fig. 33

- A Delivery holder
- **B** Spring
- C Delivery valve

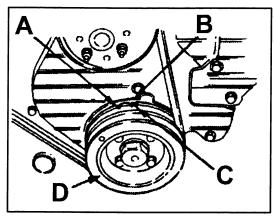


Fig. 34

- A TDC mark
- **B** Ponter
- C Timing mark (17°, 20°)
- D Crank pulley

- 1) Rotate the crankshaft clockwise to align the camshaft gear timing mark "0" (B) with the timing gear case pointer (A). If A and B are in alignment, the No. 1 cylinder will now be at the point where the fuel injection starts nearly. Next, inspect the crankangle position of the injection starting.
- 2) Remove No. 1 injection pipe from the engine.
- 3) Remove the injection pump No. 1 delivery valve holder, delivery valve and spring and reinstall the delivery valve holder on the original place.

Delivery valve holder tightening torque: 39 - 44 Nm (28.9-32.5 lb.ft)

- 4) Slowly turn the crankshaft pulley clockwise and at the same time, continue to feed the fuel with pumping the feed pump. When the fuel stop to flow out from No. 1 delivery valve holder, stop the pumping instantaneously.
- 5) Observe and make sure that which mark (injection starting angle line) on the crankshaft pulley is aligning with the pointer. The timing line shows the injection starting crank angle of the engine.

The injection starting crank angle differs depending on the engine model. Refer to the main data and specifications on the injection timing angle for the respective model engine. If the timing is incorrect, do the following adjustment.

Adjustment procedures

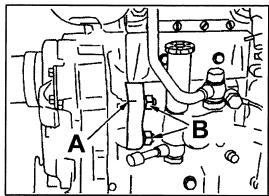


Fig. 35

- A Timing mark
- B Loosen (both side)
- 1) Align the pointer and the specified timing mark on the crankshaft pulley.

(Refer to the injection timing angle shown in the main data and specifications.)

- 2) Loosen the four injection pump fixing nuts.
- 3) To advance the timing.

Pivot the injection pump at the pump drive shaft toward out.

To retard the timing.

Pivot the injection pump at the pump drive shaft toward in (toward the cylinder block).

The 1 mm (0.039 in) misalignment between the two setting mark lines corresponds to about 2° in crank angle.

- 4) Do a fine injection pump position adjustment, while continuing the pumping operation to feed the fuel, and stop to pivot the injection pump when the fuel stop to flow out from No. 1 delivery valve holder.
- 5) Tighten the four injection pump fixing nuts.

6) Once remove No. 1 delivery valve holder, and reinstall thedelivery valve, spring and the valve holder.

Delivery valve holder tightening torque 39~44 Nm (28.9~32.5ft.lb)

7) Install No. 1 injection pipe.

NOTICE:

Take care to prevent entry of dust or foreign particles into the pump interior when timing adjustment is made.

(4) Cylinder Compression Pressure Measurement

The cylinder compression pressure measurement must be done **every 1200** operation hours, or whenever the engine output is reduced.

Compression pressure

3.04 MPa (441 psi)

Test condition:

Cranking speed 200 rpm Coolant temperature 75°C (167°F)

Repair the engine and/or replace some parts of engine if compression pressure is lower than 2.15 MPa (313 psi)

(5) Starter and Alternator Servicing

Do the starter and the alternator servicing every 1500 operating hours on the following items.

- Starter commutator cleaning.
- · Alternator slip ring cleaning.
- · Carbon brushes and the brush contact check.

(6) Radiator Pressurization Valve Check

A pressurization valve is incorporated in the radiator cap assembly. Check the valve actuating pressure with a radiator compression tester. For the pressurization valve actuating pressure and the check interval, follow the equipment manufacturer's standards.

(7) Water Pump Grease Replacement

Grease packed in the water pump must be replaced every 1500 operating hours, (BESCO GREASE L-2).

6. ENGINE CARE IN COLD SEASON

1. FUEL

(1) Fuel Selection

In the cold zone, the fuel might be frozen resulting in hard engine starting; therefore, select a suitable fuel for such engine operation.

Use ASTM 975 No. 2-D fuel if you expect temperature above-7°C (20°F).

Use Number 1-D if you expect temperatures below -7°C (20°F). If Number 1-D is not available, a "winterized" blend of 1-D and 2-D is available in some areas during the winter months.

Check with the service station operator to be sure you get the properly blended fuel.

2. COOLANT

Where the atmospheric temperature falls below freezing point, the cooling system should be drained after engine operation, but to eliminate the need for repeated draining and refilling, the use of anti-freeze solution is highly recommended.

A 50/50 Ethylene glycol base antifreeze/water mix.

Concentrations over 65% adversely affect freeze protection, heat transfer rates, and silicate stability which may cause water pump leakage.

Never exceed a 60/40 antifreeze/water mix. (which provides protection to about -50°C (-58°F).

CAUTION:

Under some conditions the ethylene glycol in the engine coolant is combustible. To help avoid being burned when adding engine coolant, do not spill it on the exhaust system or engine parts that may be hot. If there is any question, have this service performed by a qualified technician.

NOTICE:

- Methyl alcohol base antifreeze is not recommended because of its effect on the non-metallic components of the cooling system and because of its low boiling point.
- High silicate antifreeze is not recommended because of causing serious silica gelation problems.
- 3. Usage and mixing ratio etc. should be followed to the antifreeze manufacture's recommendations,

3. ENGINE OIL

Engine oil viscosity largely affects engine startability, so the use of lubricant with selected viscosity according to the atmospheric temperature is important.

At low atmospheric temperature, engine oil viscosity will increase to cause hard engine starting.

4. BATTERY

1) Always pay attention to charging the batteries completely in cold season.

As the discharge current from the battery is large in cold engine starting, it takes a comparatively long while to recharge the batteries than the recharge after the normal engine starting.

Particularly, as the gravity of the insufficiently charged battery's electrolyte is low, it will easily be frozen.Pay attention to keep the batteries warm in the cold season.

2) To replenish the battery with distilled water, do it immediately before the engine operation.

If the work is done after the engine has already been in an operation, the distilled water replenished will not be mixed with the original electrolyte, allowing the danger of freezing the not mixed distilled water staying in the battery cell upper part.

NOTICE:

Do not use starting "aids" in the air in take system. Such aids can cause immediate engine damage.

7. ENGINE MAINTENANCE SCHEDULE

(2) Applicable Engine Model 4IRJ7N

When performing the following items, the daily inspection items should also be carried Out.

No	Description of check		Daily	Daily (operation hours)							Remark
	and main	and maintenance		50	250	500	750	1000	1250	1500	
1.	Oil level and oil fouling Oil leakage check		0								
2.			0								
3.	Oil pressure gauge registration		0								
4.	Oil pressure wa	arning lamp	0								
5.	Engine oil char	nge		(O)		0		0		0	
6.	Oil filter element replacement			(O)		0		0		0	
7.	Water pump grease change									0	
8.	Fuel leakage check		0								
9.	Draining water in fuel filter	w/water sedimentor	0								
		w/o water sedimentor			0	0	0	0	0	0	
10.	Fuel filter element replacement					0		0		0	See
11.	Feed Pump Strainer Cleaning							0			"EXPLANATION OF
12.	Injection nozzle check (*)					0†		Ot		O†	MAINTENANCE SCHEDULE"
13.	Coolant level and fouling check		0								
14.	Coolant leakage check		0								
15.	Radiator filler cap fitting condition		0								
16.	Fan belt tension check (Replace if necessary.)		0								
17.	Coolant temperature registration		0								
18.	Coolant replacement										
19.	Radiator external face cleaning					0		0		0	
20.	Cooling system circuit cleaning									0	
21.	Radiator filler cap function check (*)										
22.	Electrolyte level check		0								
23.	Battery cleaning		0								

[†] This is a recommended maintenance. The failure to perform this maintenance item will not nullify the emission warranty or Limit recall liability prior to the completion engine useful life. However, ills recommended that maintenance service is performed at the indicated intervals.

No	Description of check and maintenance		Daily (operation hours)							Remark	
				50	250	500	750	1000	1250	1500	
	Battery charge condition	Ammeter registration	0								
24.		Charge warning lamp	0								
25.	Electrolyte gravity check										1
26.	Starter and alternator check and cleaning (*)									0	See "EXPLANATION OF
27.	Wiring and connection check										MAINTENANCE SCHEDULE"
28.	Preheating condition check		0								
29.	Air cleaner element replace										
30.	Engine starting conditions and noise conditions		0								
31.	Exhaust smoke condition O		0							-	
32.	Cylinder compression pressure (*)									0	
33.	Valve clearance check (*)									0	

Note:

- 1. The service intervals after 1500 operation hours should also be made every 250 operation hours in accordance with this check and maintenance schedule.
- 2. When the servicing on the asterisked (*) items are necessary, consult the equipment supplier.

EXPLANATION OF MAINTENANCE SCHEDULE

The following is a brief explanation of the services listed in the preceding Engine Maintenance schedule.

1.	Oil level and oil fouling	Check that the oil level is between the max. level mark and the mm. level mark. Drain oil to the max. level mark if oil level is above the max. level mark. Add oil to the max. level mark if oil is below the mm. level mark.						
2.	Oil leakage check	Replace any damaged or malfunctioning parts which could cause leakage.						
3.	Oil pressure gauge registration	Engine oil pressure is normal at about 294 to 490 kPa (3 to 5 kgf/cm²/43 to 71psi) in warmed-up condition. Check and repair the lubrication oil system, if it is abnormal.						
4.	Oil pressure warning lamp	Warning lamp is off while engine running. If it stays on, check and repair the lubrication system.						
5.	Engine oil change	Refer to the previous maintenance schedule.						
6.	Oil filter element replacement	Refer to the previous maintenance schedule.						
7.	Water pump grease change	Refer to the previous maintenance schedule.						
8.	Fuel leakage check	Inspect the fuel lines for damage which could cause leakage. Replace any damaged or malfunctioning parts.						
9.	Draining water in fuel filter	Drain water in fuel filter if water reaches the fuel element. In the fuel system without water sedimentor, drain the sedimented water in fuel filter every specified operating hours.						
10.	Fuel filter element replacement	Refer to the previous maintenance schedule.						
11.	Feed pump strainer cleaning	Refer to the previous maintenance schedule.						
12.	Injection nozzle check	Check and adjust injection opening pressure and spray condition. (This is a recommended maintenance)						
13.	Coolant level and fouling check	Check coolant level and add coolant if necessary.						
14.	Coolant leakage check	Repair part for coolant leakage.						
15.	Radiator filler cap fitting condition	The radiator cap must be installed tightly.						
16.	Fan belt tension check	Check and adjust fan belt deflection. Look for cracks, fraying and wear.						
17.	Coolant temperature registration	Coolant temperature is normal at about 75 to 85°C (167 to 185°F). Check and repair the cooling system if coolant temperature is abnormal.						
18.	Coolant replacement	Change coolant at intervals of 6 months or 12 months respectively if coolant is plain water, or long life coolant (LLC).						
19.	Radiator external face cleaning	According to the equipment manufacturer's specification.						
20.	Cooling system circuit cleaning	Refer to the previous maintenance schedule.						

21.	Radiator filling cap function check	Check radiator pressure cap periodically for proper operation according to the equipment manufacturer's specifications.
22.	Electrolyte level check	Replenish with distilled water if necessary.
23.	Battery cleaning	Clean the terminals.
24.	Battery charge condition	Ammeter registration goes to plus (+) side while engine running. In the lamp type, the lamp is completely being off while engine running. Check charging circuit if the lamp is not off.
25.	Electrolyte gravity check	Check according to the equipment manufacturer's specifications.
26.	Starter and alternator check and cleaning	Check wear condition of brush and commutator.
27.	Wiring and connection check	Check according to the equipment specifications.
28.	Preheating condition check	Check preheating condition of the system.
29.	Air cleaner element replacement	Change element according to the manufacturer's specifications.
30.	Engine starting condition and noise condition	Check engine stability and noise.
31.	Exhaust smoke condition	Check exhaust smoke color.
32.	Cylinder compression pressure	Refer to the previous maintenance schedule.
33.	Valve clearance check	Incorrect valve clearance will result in increased engine noise and lower engine output. Thereby adversely affecting engine performance.

8. SIMPLE ENGINE TROUBLESHOOTING

This item contents a simple troubleshooting. When a failure takes place on your Ingersoll-Rand engine, diagnose the cause referring this troubleshooting. Should the cause of failure cannot be detected or you are unable to manage the failure consult to your machine supply source or nearest Ingersoll-Rand engine service outlet.

Engine does not start		Battery discharged	
	Starter does not turn.	Imperfect cable connections.	
		Starter or starter switch failur	re.
		Safety relay failure.	
			No fuel in the fuel tank.
		No fuel injection.	Clogged fuel filter element.
			Air in the fuel system.
	Starter turns but engine does not ignite.		Control rack is stuck at no fuel position.
			Feed pump malfunction.
			Incorrect preheating operation.
			Glow plug malfunction.
		Fuel is injected but engine does not ignite.	Incorrect injection timing.
			Low cylinder compression pressure.
			Wrong engine oil viscosity.
	Engine ignite but stalls immediately.	Air in the fuel system.	
		Incorrect low idle speed adjust	stment.
		Feed pump is restricted.	

Unstable engine running		Incorrect control lever adjust	ment	
		Crack in injection pipe.		
	Unstable low idling	Injection nozzle failure.		
		Engine stop button restricted	at stop position.	
		Uneven compression pressure	e between cylinders.	
	Too high low idling speed.	Incorrect control lever adjust	ment.	
		Governor interior malfunction.		
	Engine hunting in medium speed range.	Governor spring deteriorated.		
			Air in the fuel system	
		Insufficient fuel supply.	Clogged fuel filter element	
	Malfunction in engine at		Fuel leaked from overflow valve.	
	high speed range.	Uneven fuel injection amount	between plungers.	
		Deteriorated governor spring		
		Incorrect valve clearance adjustment.		
		Deteriorated valve spring.		
	Engine speed does not be lowered.	Engine control restriction or s	seizure.	
Engine overheat.		Insufficient coolant amount.		
		Fan belt slippage.		
	Cooling system defect	Thermostat malfunction.		
		Radiator filler cap malfunction.		
		Cooling system interior fouled.		
		Radiator clogging.		
		Engine over-loaded.		
	Improper servicing	Air cleaner element clogged.		
		Insufficient ventilator.		
Lowell process		Restricted coolant flow (high co	oncentration of antifreeze, etc.)	
Low oil pressure	Lack of oil	Oil leakage		
	Improper oil	Excessive oil consumption Wrong selection of kind and v	docadh	
	High coolant temperature.	Over heat.	riscocity.	
	Clogged filter and strainer.	Over near.		
	Worn bearings and oil pump.			
	Faulty relief valve.			
	. adity folior valve.			

Lack engine output		Incorrect injection timing	Too far advanced.	
			Too far retarded.	
		Injection nozzle malfunction	Incorrect injection pressure adjustment.	
			Incorrect spray condition.	
	Incorrect injection pump adjustment		Lack of fuel in tank.	
		Insufficient fuel supply to the injection pump	Air mixing in injection pump.	
			Fuel filter clogged.	
			Overflow valve malfunction.	
		Governor malfunction	Incorrect engine control adjustment.	
			Deteriorated governor spring.	
			Incorrect valve clearance adjustment.	
		Cylinder compression pressure leakage	Nozzle holder misalignment.	
	Poor cylinder compression pressure		Cylinder bore wear.	
		Insufficient air intake volume.	Air cleaner clogging.	
			Such as inferior ventilation.	
Excessive oil consumption	Improper oil	Wrong selection of kind and v	riscosity.	
		Too much oil quantity.		
	Oil coming up.	Wrong selection of cylinder lin	ner and piston ring.	
	Oil coming down.	Faulty valve stem seal.		
		Damaged packing.		
	Oil leakage	Improper tightening.		
		Improper installation of filter a	and piping.	
	Fuel leakage	Damaged packing.		
Excessive fuel consumption		Improper installation or tightening.		
:	Too much injection amount.	Injection pump misadjustmen	t.	
	Excessive mechanical loads			

Improper exhaust		Clogged air cleaner.
improper extraust		Clogged all cleaner.
		Nozzle damage.
	Excessive black smoke	Nozzle misadjustment.
		Injection timing failure.
		Injection amount misadjustment.
		Improper fuel.
		Oil coming up or down
	Excessive white smoke	Water mixing in fuel.
		Low compression pressure.
		Injection timing failure.
		Low coolant temperature.
Battery overdischarge	Low electrolyte level	Crack in battery body.
		Natural consumption.
	Charging failure	Loose or damaged belt.
		Faulty alternator.
		Damaged wiring or contact failure.
·		Low speed driving.
	Excessive electrical loads	Insufficient battery capacity.

SECTION 10 - PARTS ORDERING

GENERAL

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

Ingersoll-Rand Company can bear no responsibility for injury or damages resulting directly from the use of non-approved repair parts.

Ingersoll-Rand Company service facilities and parts are available worldwide. There are Ingersoll- Rand Company Construction Equipment Group Sales Offices and authorized distributors located in the principal cities of the United States. In Canada our customers are serviced by the Canadian Ingersoll-Rand Company, Limited. There are also Ingersoll-Rand International autonomous companies and authorized distributors located in the principal cities throughout the free world.

Special order parts may not be included in this manual. Contact the Mocksville Parts Department with the unit serial number for assistance with these special parts.

DESCRIPTION

The illustrated parts breakdown illustrates and lists the various assemblies, subassemblies and detailed parts which make up this particular machine. This covers the standard models and the more popular options that are available.

A series of illustrations show each part distinctly and in location relative to the other parts in the assembly. The part number, the description of the part and the quantity of parts required are shown on each illustration or on adjacent page. The quantities specified are the number of parts used per one assembly and are not necessarily the total number of parts used in the machine. Where no quantity is specified the quantity is assumed to be one.

Each description of a part is based upon the "noun first" method, i.e., the identifying noun or item name is always the first part of the description. The noun name is generally followed by a single descriptive modifier. The descriptive modifier may be followed by words or abbreviations such as upper, lower, inner, outer, front, rear, RH, LH, etc. when they are essential.

In referring to the rear, the front or to either side of the unit, always consider the **drawbar end** of the unit as the **front**. Standing at the rear of the unit facing the drawbar (front) will determine the right and left sides.

FASTENERS

Both SAE/inch and ISO/metric hardware have been used in the design and assembly of these units. In the disassembly and reassembly of parts, extreme care must be taken to avoid damaging threads by the use of wrong fasteners. In order to clarify the proper usage and for exact replacement parts, all standard fasteners have been identified by part number, size and description. This will enable a customer to obtain fasteners locally rather than ordering from the factory. These parts are identified in tables that will be found at the rear of the parts illustrations. Any fastener that has not been identified by both part number and size is a specially engineered part that must be ordered by part number to obtain the exact replacement part.

MARKINGS AND DECALS

Do not paint over safety warnings or instructional decals. If safety warning decals become illegible, immediately order replacements from the factory.

Part numbers for original individual decals and their mounting locations are shown within Parts List Section. These are available as long as a particular model is in production.

Afterwards, service sets of exterior decals and current production safety warning decals are available. Contact the Product Support Group at Mocksville for your particular needs and availability.

HOW TO USE PARTS LIST

a. Turn to Parts List Section.

b.Locate the area or system of the compressor in which the desired part is used and find illustration page number.

c.Locate the desired part on the illustration by visual identification and make note of part number and description.

HOW TO ORDER

The satisfactory ordering of parts by a purchaser is greatly dependent upon the proper use of all available information. By supplying your nearest sales office, autonomous company or authorized distributor, with complete information, you will enable them to fill your order correctly and to avoid any unnecessary delays.

In order that all avoidable errors may be eliminated, the following instructions are offered as a guide to the purchaser when ordering replacement parts:

a. Always specify the model number of the unit as shown on the general data decal attached to the unit.

- b. Always specify the serial number of the unit. THIS IS IMPORTANT. The serial number of the unit will be found stamped on a plate attached to the unit. (The serial number on the unit is also permanently stamped in the metal of the frame side rail.)
- c. Always specify the number of the parts list publication.
- d. Always specify the quantity of parts required.
- e. Always specify the part number, as well as the description of the part, or parts, exactly as it is given on the parts list illustration.

In the event parts are being returned to your nearest sales office, autonomous company or authorized distributor, for inspection or repair, it is important to include the serial number of the unit from which the parts were removed.

TERMS AND CONDITIONS ON PARTS ORDERS

Acceptance: Acceptance of an offer is expressly limited to the exact terms contained herein. If purchaser's order form is used for acceptance of an offer, it is expressly understood and agreed that the terms and conditions of such order form shall not apply unless expressly agreed to by Ingersoll-Rand Company ("Company") in writing. No additional or contrary terms will be binding upon the Company unless expressly agreed to in writing.

Taxes: Any tax or other governmental charge now or hereafter levied upon the production, sale, use or shipment of material and equipment ordered or sold is not included in the Company's price and will be charged to and paid for by the Purchaser.

Shipping dates shall be extended for delays due to acts of God, acts of Purchaser, acts of Government, fires, floods, strikes, riot, war, embargo, transportation shortages, delay or default on the part of the Company's vendors, or any other cause beyond the Company's reasonable control.

Should Purchaser request special shipping instruction, such as exclusive use of shipping facilities, including air freight when common carrier has been quoted and before change order to purchase order can be received by the Company, the additional charges will be honored by the Purchaser.

Warranty: The Company warrants that parts manufactured by it will be as specified and will be free from defects in materials and workmanship. The Company's liability under this warranty shall be limited to the repair or replacement of any part which was defective at the time of shipment provided Purchaser notifies the Company of any such defect promptly upon discovery, but in no event later than three (3) months from the date of shipment of such part by the Company.

The only exception to the previous statement is the extended warranty as it applies to the special airend exchange program. Repairs and replacements shall be made by the Company F.O.B. point of shipment.

The Company shall not be responsible for costs of transportation, removal or installation. Warranties applicable to material and equipment supplied by the Company but wholly manufactured by others shall be limited to the warranties extended to the Company by the manufacturer which are able to be conveyed to the Purchaser.

Delivery: Shipping dates are approximate. The Company will use best efforts to ship by the dates specified; however, the Company shall not be liable for any delay or failure in the estimated delivery or shipment of material and equipment or for any damages suffered by reason thereof.

AIREND EXCHANGE PROGRAM

Your Ingersoll-Rand Company Construction Equipment Group Sales Offices and authorized distributors as well as Ingersoll-Rand International autonomous companies and authorized distributors now have an airend exchange program to benefit portable compressor users. On the airend exchange program the exchange price is determined by the age and condition of the airend and may be classified by one of the following categories.

Category "A": The airend must not be over two years old and must have reusable rotor housing(s) and rotor(s).

Category "B": The airend must be between two and five years old and returned with two or more reusable major castings.

Category "C": The airend must be over five years old. Your nearest sales office, autonomous company or authorized distributor must first contact the Parts Service Department at the factory at which your portable air compressor was manufactured for an airend exchange number. The airend must be tagged with this preassigned number and returned to the factory prepaid. The airend must be intact, with no excluded parts, otherwise the exchange agreement may be cancelled. The warranty on an exchange or factory rebuilt airend is 365 days.

Note: Airends being returned to the factory in connection with a WARRANTY CLAIM must be processed through the Customer Service Department. If returned without a Warranty MRR (Material Return Request) Number, no warranty claim will be considered.

PARTS LIST

CONTENTS

Frame & Running Gear

Running Gear Complete

Electric Brake Wiring

Brake Shoes

15" Tire & Wheel Assembly

Jack Assembly

Engine Complete

Gasket Set

Cylinder Head Cover

Cylinder Head

Cylinder Block

Oil Pan

Camshaft & Valves

Crankshaft & Pistons

Timing Gear

Engine Mounts

Intake Manifold

Exhaust Manifold

Ventilation System

Water Pump

Thermostat Housing

Water Piping

Fan Mount

Fuel Pump

Injection Pump

Fuel Filter

Oil Filter

Oil Pump

Oil Piping

Turbo Oil Piping

Turbocharger

Electrical Components

PARTS LIST

CONTENTS

Cooling Complete

Unloader Valve Assembly

Airend Assembly

Airend Assembly

Oil Temperature Bypass Valve

Seperator Tank & Air Service Complete

Fuel Tank Complete

Air Intake Complete

Air Cleaner Assembly

Battery Assembly

Air and Oil Piping

Wiring Diagram

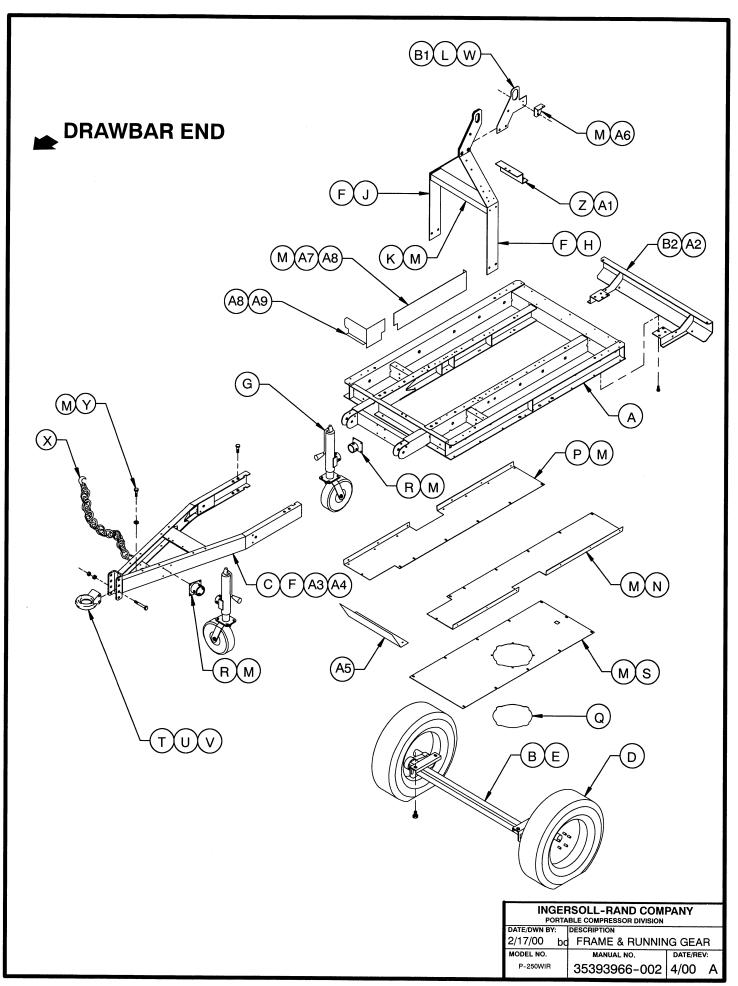
Inst/Control Panel

Enclosure Complete

Foam Insulation Complete

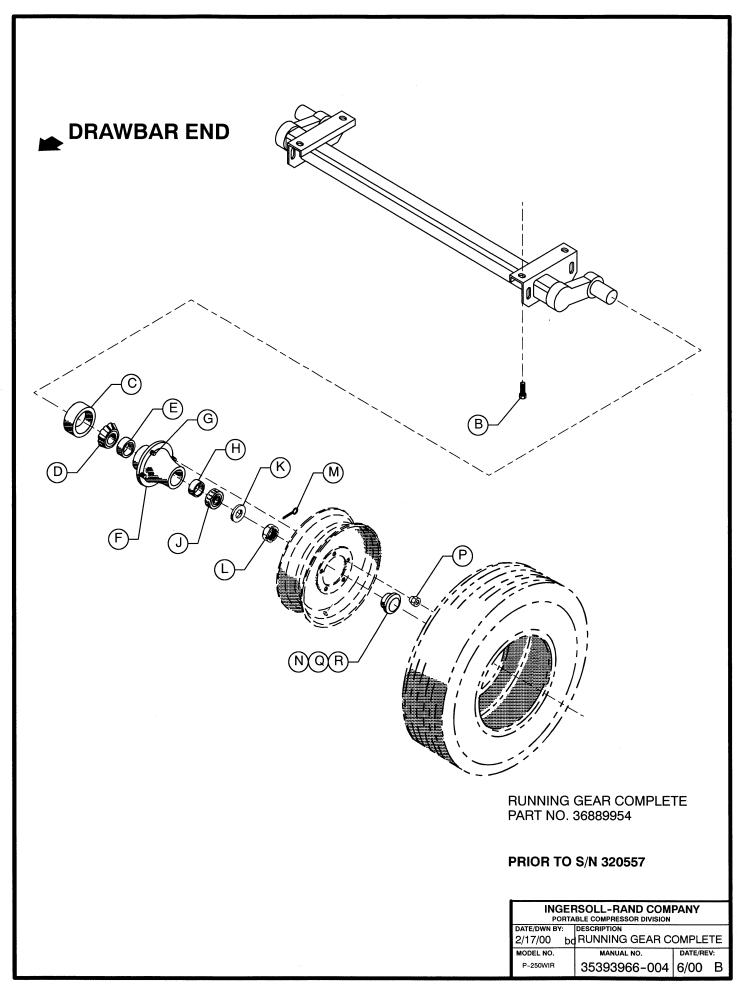
Decal Location

Fuel / Water Separator



ITEM	C.P.N.	QTY	DESCRIPTION	
Α	54436803	1	FRAME	
В	36889954	1	RUNNING GEAR	PRIOR TO S/N 320557
	36889962	1	RUNNING GEAR with ELECT BRAKES	BETWEEN S/N 320557 & 322906
	54675749	1	RUNNING GEAR with ELECT BRAKES	BEGIN with S/N 322907
С	36886364	1	DRAWBAR	= = 3 5, 5==50.
D	36053874	2	15" TIRE & WHEEL ASSY	
Ε	36879302	4	SCREW, HEX FLANGE HD M16 X 50	
F	36789492	12	SCREW, HEX FLANGE HD M12 X 25	
G	36888709	1	JACK ASSY	
Н	36880862	1	BAIL, STSD LIFT	
J	36880854	1	BAIL, CRBSD LIFT	
K	36880870	1	CROSSMEMBER, LIFT BAIL	
L	36882165	1	PLATE, BAIL EYE	
М	35279025	36	SCREW, TAPPING M08-1.25 X 20	
N	36882686	1	PAN, STSD BELLY	
Р	36882678	1	PAN, CRBSD BELLY	
Q	36880623	1	COVER, FLEXIBLE ACCESS	
R	36796068	2	TUBE, JACK MOUNTING	
S	36880441	1	PAN, CENTER BELLY	
Т	35605187	1	PINTLE EYE	
U	35376094	2	SCREW, HEX M16-2.0 X 120	
V	96701750	4	NUT, HEX M16	
W	36879203	3	NUT, HEX FLANGE M12	
Х	35610377	2	CHAIN ASSY	
Υ	95934907	2	WASHER, FLAT 3/8	
Z	54465653	1	BRACKET, RELAY	
A1	35300771	2	SCREW, TAPPING M06 -1.0 X 20	
A2	36921930	1	BUMPER	
АЗ	35290113	2	SCREW, HEX M16-2.0 X 75	
A4	96704630	2	NUT, NYLOCK M16	
A5	36881423	1	BAFFLE, INLET	
A6	36883510	1	ANGLE, ROOF TIE	
A7	36884708	1	GUARD, TOOL BOX	
A8	36787652	11	SCREW, TAPPING M06-1.0 X 12	
A9	36884716	1	GUARD, BATTERY	
B1	36877793	3	SCREW, HEX FLANGE HD M12 X 40	
B2	35148030	4	SCREW, TAPPING 1/2-13 X 1	

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
DATE/DWN BY: 1/27/00 bo	DESCRIPTION FRAME & RUNNIN	IG GEAR				
MODEL NO.	MANUAL NO.	DATE/REV:				
P-250WIR	35393966-003	2/02 D				



ITEM		C.P.N.	QTY	DESCRIPTION
Α		35318823	*	KIT, HUB
В		36879302	4	SCREW, HEX M16-200 X 150
С	*	35316868	2	GREASE SEAL
D	*	35316876	2	INNER BEARING CONE
Е	*	35316884	2	INNER BEARING CUP
F	*	35361880	2	HUB
G	*	35361898	12	WHEEL STUD
Н	*	35318831	2	OUTER BEARING CUP
J	*	35318849	2	OUTER BEARING CONE
K		35315209	2	SPINDLE WASHER
L		35315217	2	SPINDLE NUT
M		35315225	2	COTTER PIN
Ν	*	35379395	2	EZ-LUBE DUST CAP
P	*	35315274	12	WHEEL NUT
Q	*	35391135	2	PLUG, EZ-LUBE RUBBER
R	*	35390012	2	WASHER, TANG

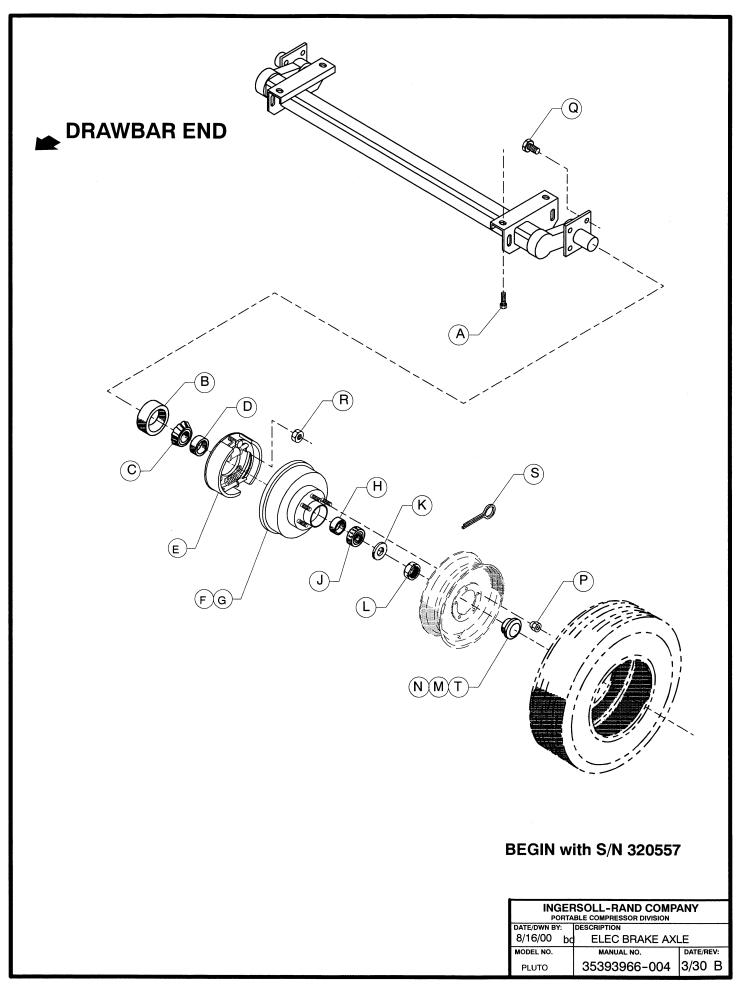
^{*} ITEMS INCLUDED IN KIT

36889954 RUNNING GEAR - INCLUDES AXLE AND HUBS (TORSION ARMS AND AXLE NOT AVAILABLE SEPARATELY)

RUNNING GEAR COMPLETE PART NO. 36880458

PRIOR TO S/N 320557

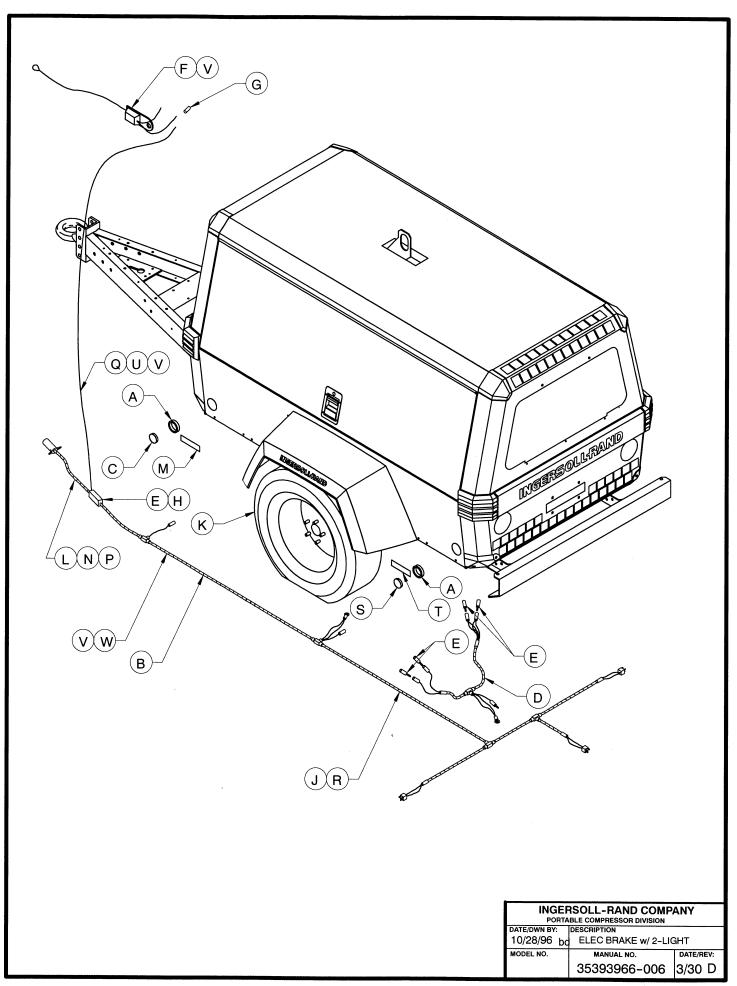
	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION					
	DATE/DWN BY: DESCRIPTION 2/17/00 bd RUNNING GEAR COMPLETE					
ı	MODEL NO.	MANUAL NO.	DATE/REV:			
	P-250WIR	35393966-005	6/00 B			



ITEM	C.P.N.	QTY	DESCRIPTION
	00070000		
Α -	36879302	4	SCREW, HEX FLANGED HD M16 X 50
В	35316868	2	SEAL, E Z LUBE GREASE
С	35316876	2	CONE, INNER BEARING
D	35316884	2	CUP, INNER BEARING
E	35390814	1	LH BRAKE ASSEMBLY
i	35390822	1	RH BRAKE ASSEMBLY
F	35390459	2	HUB & DRUM with STUDS
G	35361898	12	STUD
Н	35318831	2	CUP, OUTTER BEARING
J	35318849	2	CONE, OUTTER BEARING
K	35315209	2	WASHER, SPINDLE
L	35315217	2	NUT, SPINDLE
М	35379395	2	CAP, E Z LUBE GREASE
N	35391135	2	PLUG, E Z LUBE RUBBER
Р	35315274	12	NUT, WHEEL
Q	35391648	10	SCREW, BRAKE MOUNTING
R	35391630	10	NUT, BRAKE MOUNTING HEX
S	35315225	2	PIN, COTTER
Т	35390012	2	WASHER, TANG

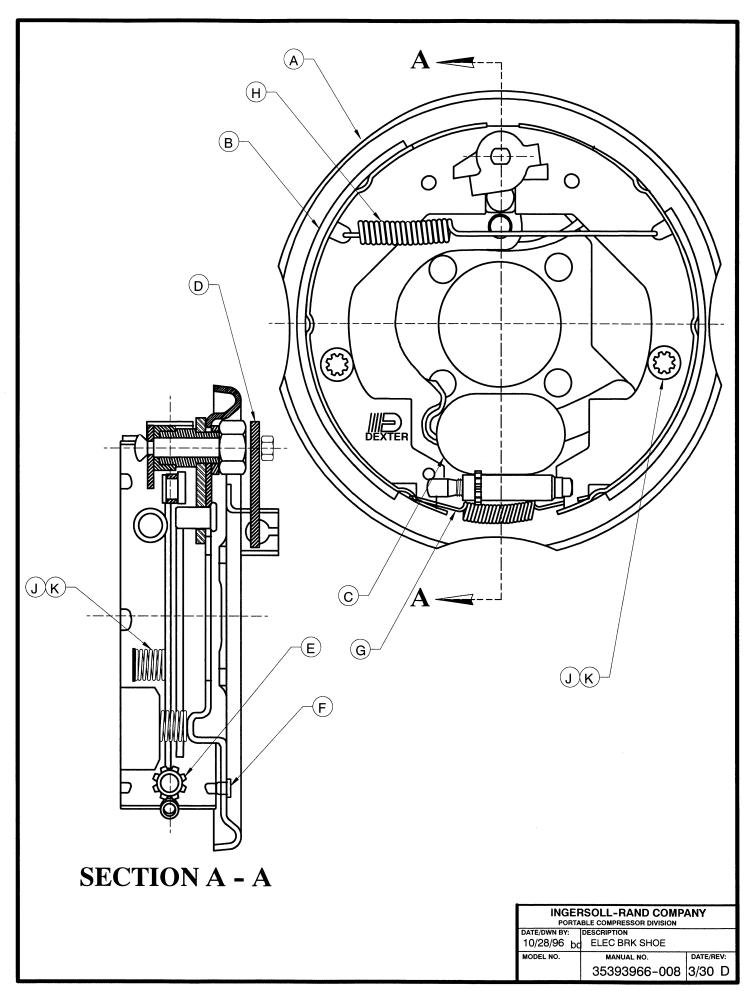
BEGIN with S/N 320557

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
ı	DATE/DWN BY	:	DESCRIPTION			
1	8/16/00	bo	ELEC BRAKE AXI	_E		
	MODEL NO.		MANUAL NO.	DATE/REV:		
	PLUTO		35393966-005	3/30 B		

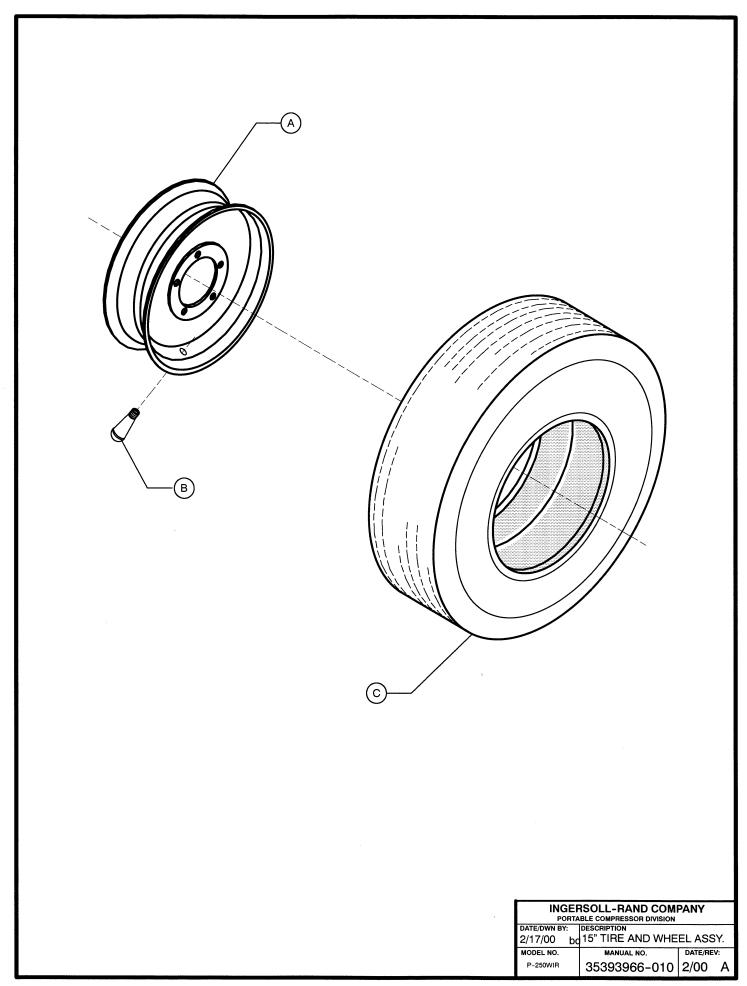


ITEM	C.P.N.	QTY	DESCRIPTION
Α	36893634	4	GROMMET, CLEARANCE LIGHT
В	36893345	1	HARNESS, TAIL LIGHT
С	35367051	2	LIGHT, YELLOW CLEARANCE
D	36895282	1	HARNESS, ELECTRIC BRAKE
E	35375427	8	TERMINAL, SNAP
F	35315944	1	SWITCH, BREAKAWAY
G	37140365	2	TERMINAL, SPLICE
Н	35346337	1	TERMINAL, LUG
J	35253038	4	CLAMP, 3/8
K	36881324	1	GEAR, ELEC BRAKE w/ RUNNING
L	92368687	6	SCREW, TAPPING M06-100 X 14
M	36894616	2	REFLECTOR, AMBER
N	36789261	1	HARNESS, 6 CONDUCTOR CABLE (STD LENGTH DRAWBAR)
	36787216	1	HARNESS, 6 CONDUCTOR CABLE (EXT LENGTH DRAWBAR)
Р	35225093	3	CLAMP, 1/2
Q	35120005	40"	WIRE, 14 GA BLACK
R	35279025	3	SCREW, TAPPING M08-125 X 20
S	35367044	2	LIGHT, RED CLEARANCE
Т	36894608	2	REFLECTOR, RED
U	37001252	1	CLAMP
V	36797652	1	SCREW, TAPPING M06-1.0 X 12
W	36853174	1	CLAMP, 1/4

1	PORTA	RSOLL-RAND COMPA	ANY
	10/28/96 bo	DESCRIPTION ELEC BRAKE w/ 2-LIC	GHT
	MODEL NO.	MANUAL NO.	DATE/REV:
		35393966-007	3/30 D

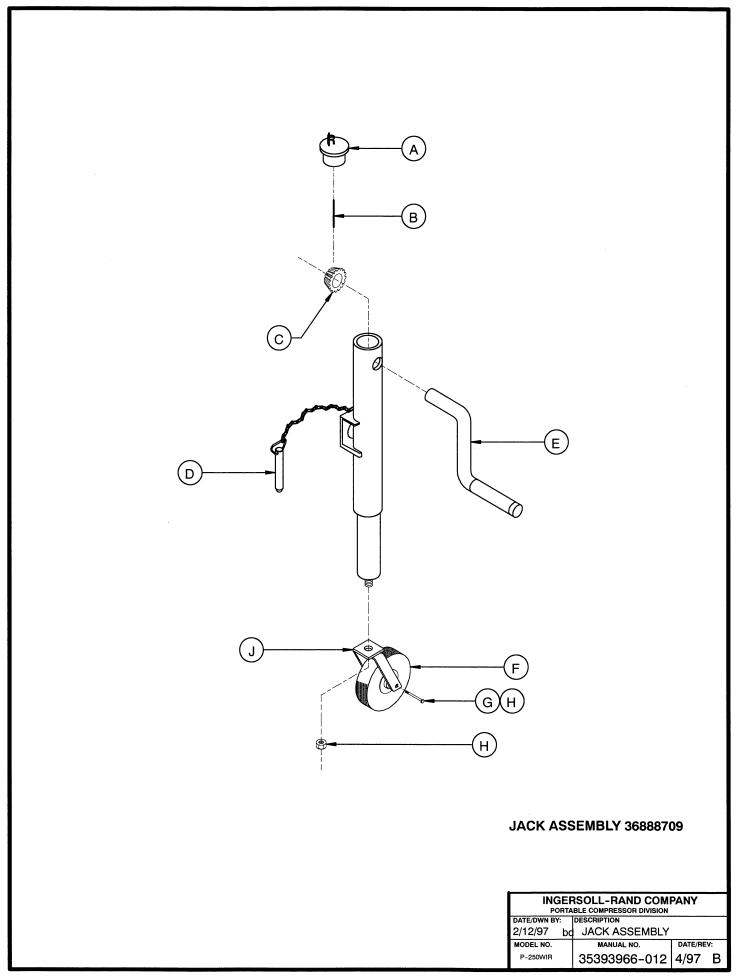


ITEM	C.P.N.	QTY	DESCRIPTION
Α	35391184	1	LH BACKING PLATE ASSEMBLY
, A	35391192	1	RH BACKING PLATE ASSEMBLY
В	35391333	1	BRAKE SHOE KIT
С		0	
	35391309	2	MAGNET KIT
D	35391267	2	PARKING BRAKE LEVER
E	35391366	2	ADJUSTING SCREW ASSEMBLY
F	35391416	2	ADJUSTING SLOT PLUG
G	35391374	2	SPRING, ADJUSTER
Н	35391358	2	SPRING, RETRACTOR
J	35391382	4	SPRING, SHOE HOLD DOWN
K	35391390	4	PIN, SHOE HOLD DOWN
L	35391226	1	LH ACTUATING LEVER KIT
	35391234	1	RH ACTUATING LEVER KIT



ITEM	C.P.N.	QT	Y DESCRIPTION
Α	35318757	1	WHEEL
В	35282565	1	VALVE STEM
С	35291988	1	TIRE

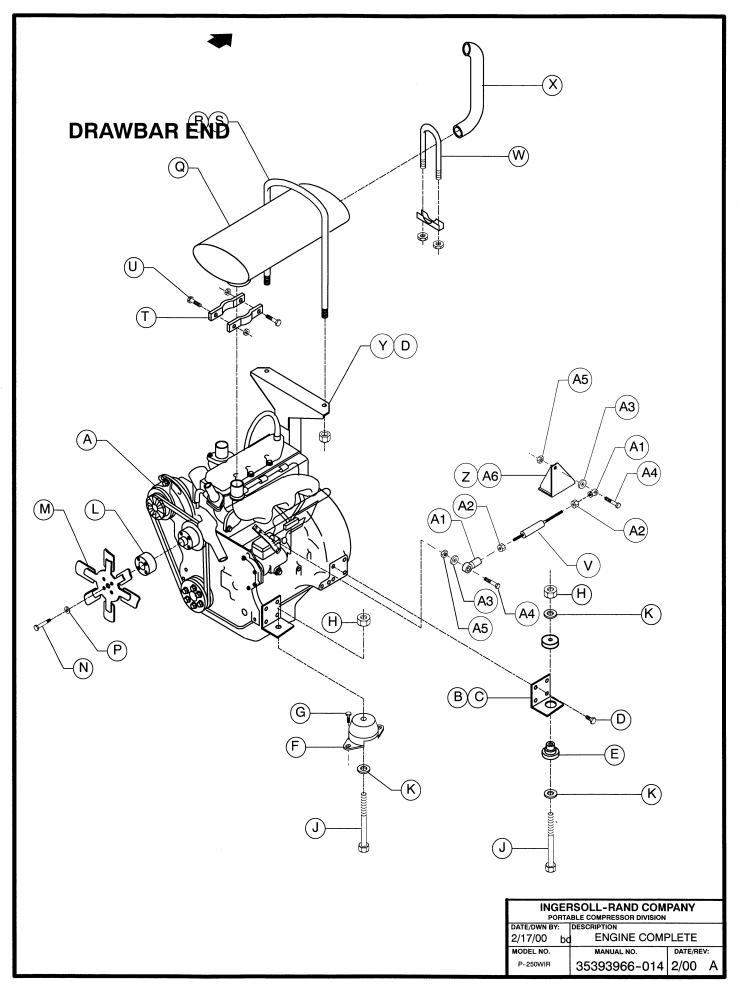
| INGERSOLL-RAND COMPANY | PORTABLE COMPRESSOR DIVISION | DATE/DWN BY: | DESCRIPTION | 2/17/00 | bd | 15" TIRE AND WHEEL ASSY. | MODEL NO. | P-250WIR | 35393966-011 | 2/00 | A



ITEM	C.P.N.	QTY	DESCRIPTION
Α	35392521	1	CAP
В	35392539	1	PIN, ROLL
С	35392547	1	GEAR, DRIVE
D	35392554	1	PLUNGER PIN KIT
Ε	35392562	1	HANDLE ASSENBLY
F	35392588	1	CASTER WHEEL
G	35392596	1	BOLT, CASTER WHEEL 1/2-13 X 3.18
Н	95923348	2	NUT, HEX NYLOCK 1/2-13
J	35392570	1	YOKE, CASTER WHEEL
i			

JACK ASSEMBLY 36888709

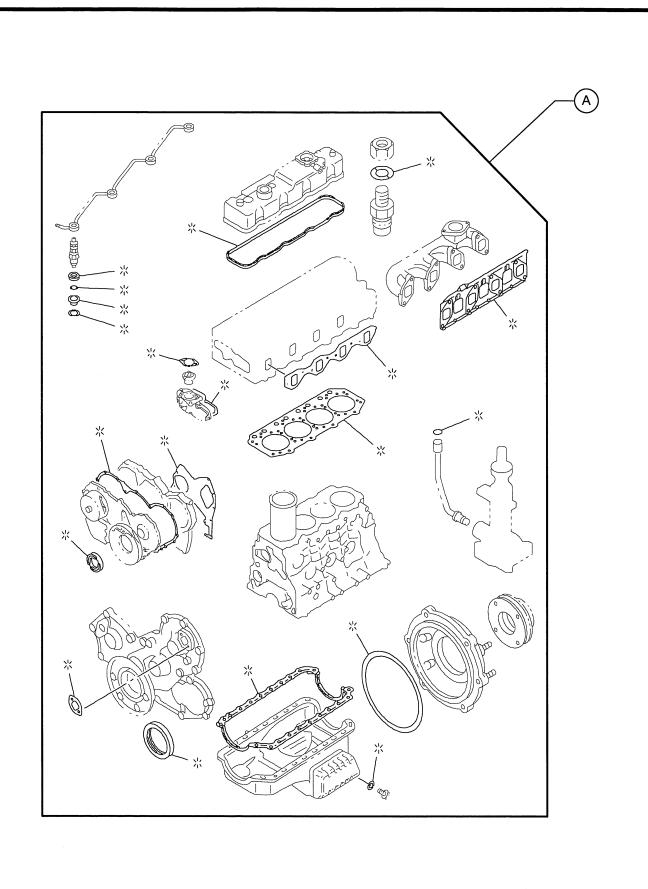
PORTA	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
	DESCRIPTION						
2/12/97 bd	JACK ASSEMBLY						
MODEL NO.	MANUAL NO.	DATE/RE	V:				
P-250WIR	35393966-013	6/99	С				



ITEM	C.P.N.	QTY	DESCRIPTION
Α	54412796	1	ENGINE
В	54438544	1	BRACKET, REAR CURB SIDE ENGINE
С	54438536	1	BRACKET, REAR STREET SIDE ENGINE
D	36888055	12	SCREW, HEX FLANGE HD M12-1.75 X 30
Е	54439062	2	ISLOATOR
F	54429303	2	ISOLATOR
G	35279025	4	SCREW, TAPPING M08-1.25 X 20
Н	35304047	4	NUT, HEX NYLOCK M12-1.75
J	96739958	4	SCREW, HEX M12-1.75 X 70
K	54429295	6	WASHER, SNUBBER
L	88081641	1	SPACER, FAN
M	54486451	1	FAN
N	88080031	4	SCREW, HEX M06-1.0 X 80
Р	88082425	4	WASHER, FLAT ID=6
Q	36881563	1	MUFFLER
R	35851377	1	U-BOLT 3/8-16
S	95923322	2	NUT, HEX LOCK 3/8-16
Т	36796845	2	CLAMP, MUFFLER
U	95935227	2	SCREW, HEX 5/16-18 X 1 1/4
V	54466859	1	CYLINDER, AIR
W	35209048	1	CLAMP, SADDLE 2 1/2
Х	36775690	1	PIPE, EXHAUST TAIL
Υ	54398425	1	BRACKET, MUFFLER
Z	54389606	1	BRACKET, SPEED CONTROL
A1	35328467	2	BEARING, ROD END 5/16-24
A2	95935086	2	NUT, 5/16-24
A3	95935029	2	WASHER, FLAT
A4	96701461	2	SCREW, HEX M06-1.0 X 20
A5	36769032	2	NUT, HEX FLANGE M06-1.0

ENGINE OIL FILTER ELEMENT 54381314 ENGINE FUEL FILTER ELEMENT 54381306 FUEL / WATER SEPARATOR FILTER 54468178

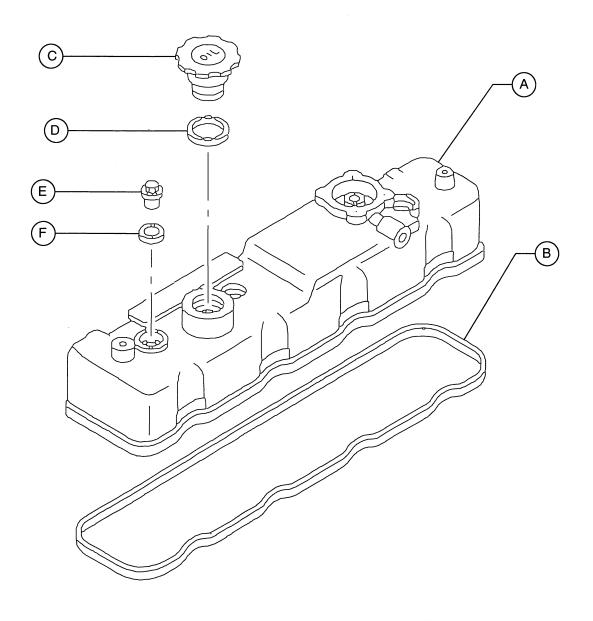
INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
DATE/DWN BY:	DATE/DWN BY: DESCRIPTION					
2/17/00 bo	bd ENGINE COMPLETE					
MODEL NO.	MANUAL NO.	DATE/REV	:			
P-250WIR	35393966-015	2/00	Α			



INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
DATE/DWN BY:	DESCRIPTION					
2/21/00 bo	GASKET SET					
MODEL NO.	MANUAL NO.	DATE/RE	V:			
P~250WIR	35393966-016	2/00	Α			

ITEM	C.P.N.	QTY	DESCRIPTION	
А	49849599	1	SET, GASKET	
			•	
				-
		•		
			INGERSOLL-RAND COMPANY	
			PORTABLE COMPRESSOR DIVISION DATE/DWN BY: DESCRIPTION 2/21/00 bd GASKET SET	
			MODEL NO. MANUAL NO. DATE/RE P-250WIR 35393966-017 2/00	

FRONT OF ENGINE



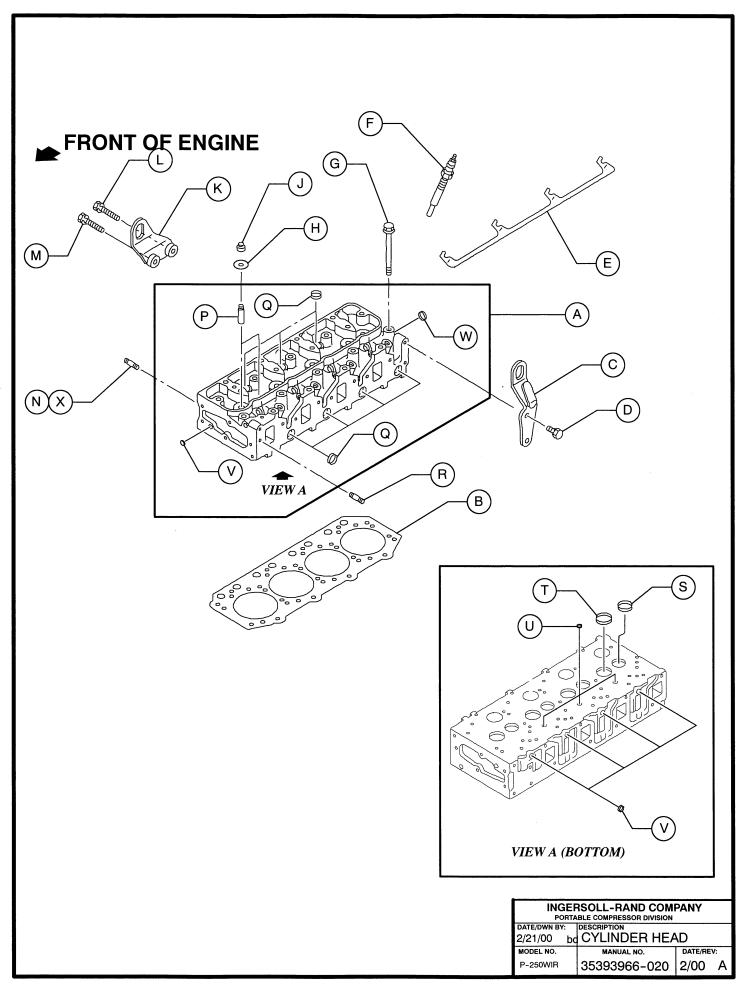
INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION					
	DATE/DWN BY: DESCRIPTION 2/21/00 bd CYL HEAD COVER				
1	MODEL NO.	MANUAL NO.	DATE/RE	V:	
	P-250WIR	35393966-018	2/00	Α	

ITEM	C.P.N.	QTY	DESCRIPTION
A	88081740	1	COVER, CYLINDER HEAD
В	** 54386057	1	GASKET, HEAD TO COVER
С	54385984	1	CAP, OIL FILLER
D	* 88080767	1	GASKET, OIL FILLER
Е	88080999	3	NUT, CAP HEAD COVER
F	** 88081047	3	GASKET, HEAD COVER

^{*} included with item C, OIL FILLER CAP

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
	CYL HEAD COVER			
MODEL NO.	MANUAL NO.	DATE/REV:		
P-250WIR	35393966-019	2/00	Α	

^{**} included in GASKET SET

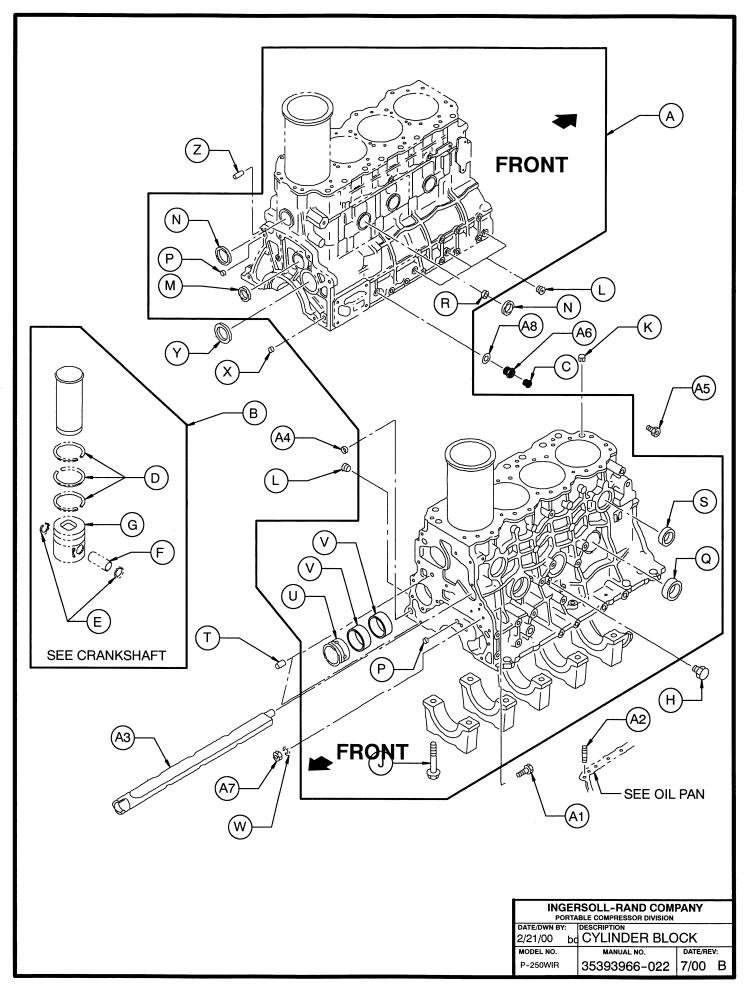


ITEM	C.P.N.	QTY	DESCRIPTION		
А	49849607	1	CYLINDER HEAD ASSEMBLY		
В	** 88081674	1	GASKET, CYLINDER HEAD T=1.6	REF. 1 HOLE	
	** 88081682	1	GASKET, CYLINDER HEAD T=1.65	REF. 2 HOLES	
	** 54386032	1	GASKET, CYLINDER HEAD T=1.7	REF. 3 HOLES	
С	88081039	1	HANGER, REAR ENGINE		
D	88080080	2	BOLT, FLANGE M8-1.25 X 20		
Е	88080965	1	CONNECTOR, GLOW PLUG		
F	54385893	4	PLUG, GLOW		
G	88081476	18	BOLT, CYLINDER HEAD TO BLOCK		
Н	** 88080627	8	SEAT, SPRING OD 34		
J	88081815	8	SEAT, OIL VALVE STEM		
K	88081427	1	HANGER, FRONT ENGINE		
L	88080098	1	BOLT, M8-1.25 X 25		
M	88080122	1	BOLT, M10-1.75 X 30		
N	49840614	1	STUD, M8-1.25 X 87		
Р	* 88080601	8	GUIDE, VALVE		
Q	* 88081906	7	CUP, SEALING CYLINDER HEAD		
R	88082276	2	STUD, M8-1.25 X 25		
s	* 49849623	4	SEAT, VALVE EXHAUST		
Т	* 49849615	4	SEAT, VALVE INTAKE		
υ	* 88080544	3	CUP, SEALING OD 16		
V	* 88080486	5	CUP, SEALING OD 12.3		
W	* 88080353	1	CUP, SEALING OD 45		
Х	49840622	4	STUD, M8-1.25 X 133		

	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION					
	DATE/DWN BY: DESCRIPTION 2/21/00 bd CYLINDER HEAD					
I	MODEL NO.	MANUAL NO.	DATE/REV:			
۱	P-250WIR	35393966-021	10/01 C			

^{*} included in item A, CYLINDER HEAD ASSEMBLY

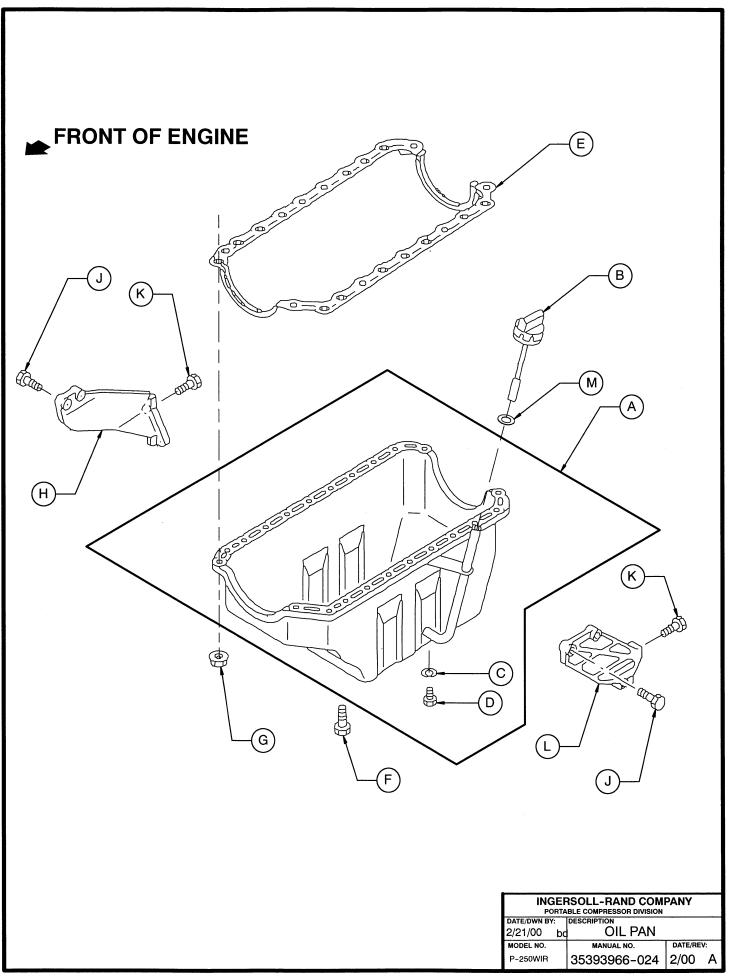
^{**} included in GASKET SET



ITEM	C.P.N.	QTY	DESCRIPTION
	99091765	4	CVI INDED DI CON ACCEMBLY
A B	88081765	1	CYLINDER BLOCK ASSEMBLY
Ь	49849631	4	SET, GRADE 1 CYLINDER LINER
	49849649	4	SET, GRADE 2 CYLINDER LINER
	49840002	4	SET, GRADE 3 CYLINDER LINER
	49840010	4	SET, GRADE 4 CYLINDER LINER
С	36878379	1	SWITCH, OIL PRESSURE
D	* 88081856	4	SET, PISTON RING
}	* 88081518	8	RING, SNAP
	* 88081492	4	PIN, PISTON
G	* 49840036	4	PISTON, STANDARD A
	* 49840044	4	PISTON, STANDARD C
Н	88082664	1	PLUG, WATER DRAIN 1/4 NPT
J	88081344	10	BOLT, M14-2.0 X 89
. K	88081443	2	DOWEL, CYLINDER BLOCK TO HEAD
L	88080379	3	PLUG, PT 1/8 NPT
M	88080577	1	CUP, REAR SEALING OD 38
N	88080585	4	CUP, SEALING OD 36
Р	88080486	2	CUP, SEALING OD 12.3
Q	88080353	3	CUP, SEALING OD 45
R	88080551	3	CUP, SEALING OD 18
S	88080569	2	CUP, SEALING OD 32
Т	88082326	2	PIN, STRAIGHT 10 X 20
U	88081294	1	BEARING, FRONT CAMSHAFT
V	49849292	2	BEARING, CENTER CAMSHAFT
W	88082441	1	WASHER, ID 10.2
Х	88080544	2	CUP, SEALING OD 16
Υ	88081070	1	CUP, SEALING OD 56
Z	88082342	1	PIN, STRAIGHT 10 X 32
A1	88082615	1	BOLT, REAMER
A2	88080858	8	STUD, OIL PAN
А3	88081484	1	DUCT, WATER BLOCK
A4	88080536	1	CUP, SEALING OD 15.6
A 5	88080791	1	NIPPLE, OIL FEED
A6	49849573	1	ADAPTER, OIL PRESSURE SWITCH
A7	88082409	1	NUT, REAMER BOLT M10
A8	88082565	1	GASKET, BLOCK SIDE PLUG
	30002000	•	

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION					
2/21/00 bd CYLINDER BLOCK					
MODEL NO.	MANUAL NO.	DATE/RE	V:		
P-250WIR	35393966-023	6/00	В		

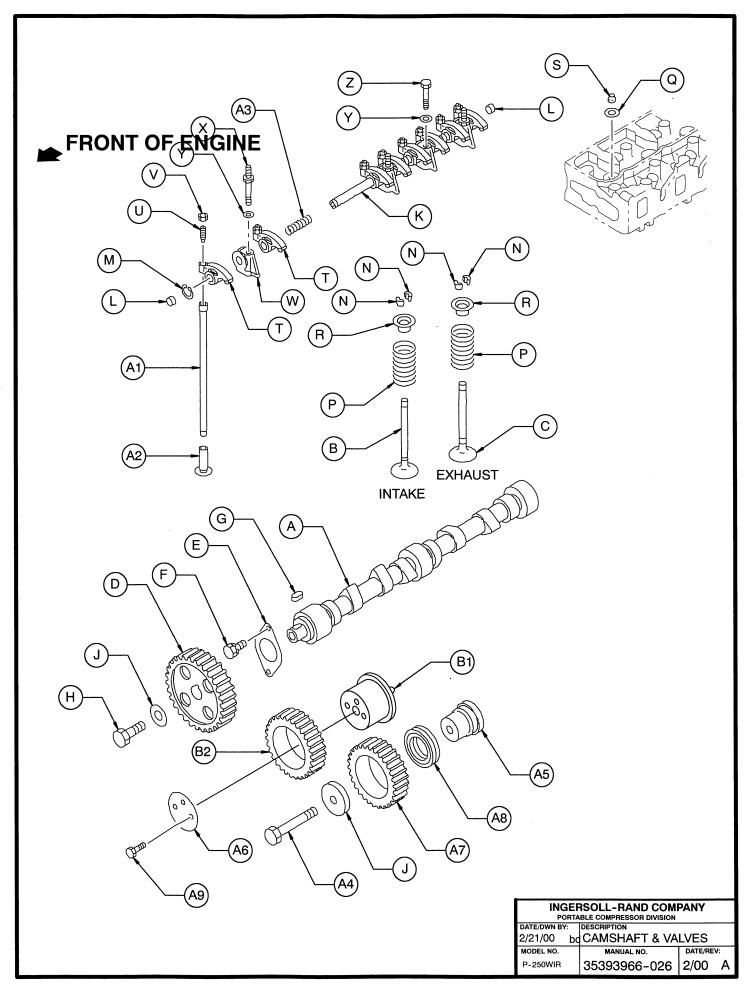
^{*} included in item A, CYLINDER LINER SET



ITEM	C.P.N.	QTY	DESCRIPTION
Α	49840028	1	OIL PAN ASSEMBLY
В	88081575	1	GAUGE, OIL LEVEL
С	* 88080395	1	GASKET, DRAIN PLUG
D	88082656	1	PLUG, OIL DRAIN
E	* 88081732	1	GASKET, OIL PAN TO CYL BLOCK
F	88080841	14	BOLT, OIL PAN
G	88080312	8	NUT, OIL PAN
Н	88082029	1	STIFFNER, OIL PAN
J	88080148	2	BOLT, STIFFNER OIL PAN M10-1.5 X 40 FLG HEAD
K	88080155	2	BOLT, STIFFNER OIL PAN M12-1.75 X 30 FLG HEAD
_l L	88082011	1	STIFFNER, OIL PAN
М	49849326	1	GASKET, OIL LEVEL GAUGE

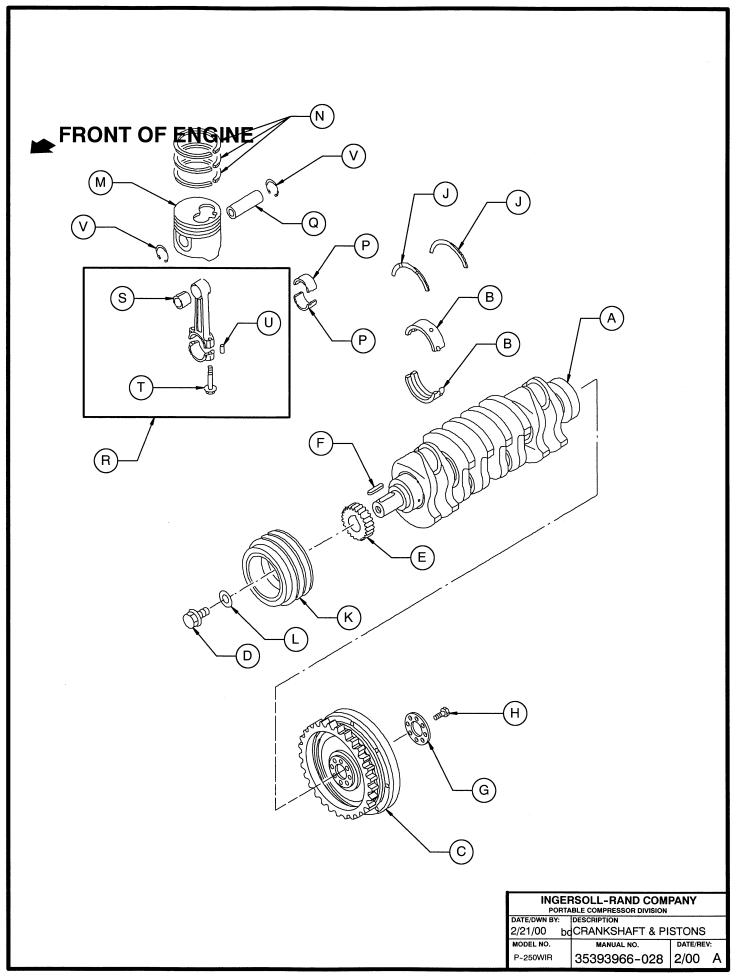
^{*} included in GASKET SET

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
DATE/DWN BY:	DESCRIPTION					
2/21/00 bo	OIL PAN					
MODEL NO.	MANUAL NO.	DATE/RE	V:			
P-250WIR 35393966-025 2/01 B						



ITEM	C.P.N.	QTY	DESCRIPTION
A	88080783	1	CAMSHAFT
В	88080825	4	VALVE, INTAKE
C	88081658	4	VALVE, EXHAUST
D	88081138	1	GEAR, CAMSHAFT
E	88080742	1	PLATE, THRUST
F	88080197	2	BOLT, M8-1.25 X 16 w/LK WASHER
G	88082300	1	KEY, CAMSHAFT
Н	88080429	1	BOLT, CAM PULLEY M12-1.75 X 47
J	88080619	2	WASHER
K	88080940	1	SHAFT, ROCKER ARM
L	88082680	2	PLUG, ROCKER SHAFT END
М	88082516	2	RING, ROCKER ARM SNAP
N	88080635	16	COLLAR, SPLIT
Р	88081096	8	SPRING, OUTER VALVE
Q	88080627	8	SEAT, SPRING OD 34
R	88080833	8	SEAT, SPRING OD 32.8
S	88081815	8	SEAT, OIL VALVE STEM
Т	88080924	8	ARM, ROCKER
U	88080908	8	BOLT, M8-1.25 X 30
V	88082391	8	NUT, LOCK ADJUST SCREW M8
W	88080932	4	BRACKET, ROCKER SHAFT
Х	88081377	3	BOLT, BRACKET
Υ	88082482	4	WASHER, ROCKER ARM FIX
Z	88081351	1	BOLT, M10-1.5 X 60
A1	88081716	8	ROD, PUSH
A2	88081419	8	TAPPET, VALVE
АЗ	88081369	3	SPRING, ROCKER SHAFT
A4	88080718	1	BOLT, SHAFT IDLE
A 5	88080726	1	SHAFT, IDLE GEAR
A6	88080874	1	COLLAR, IDLE GEAR THRUST
A7	88081849	1	GEAR, IDLE
A8	88080734	1	BEARING, IDLER SHAFT
A9	88080437	2	BOLT, M8-1.25 X 55
B1	49849334	1	SAHFT, IDLER GEAR
B2	49849342	1	GEAR, IDLE
l			

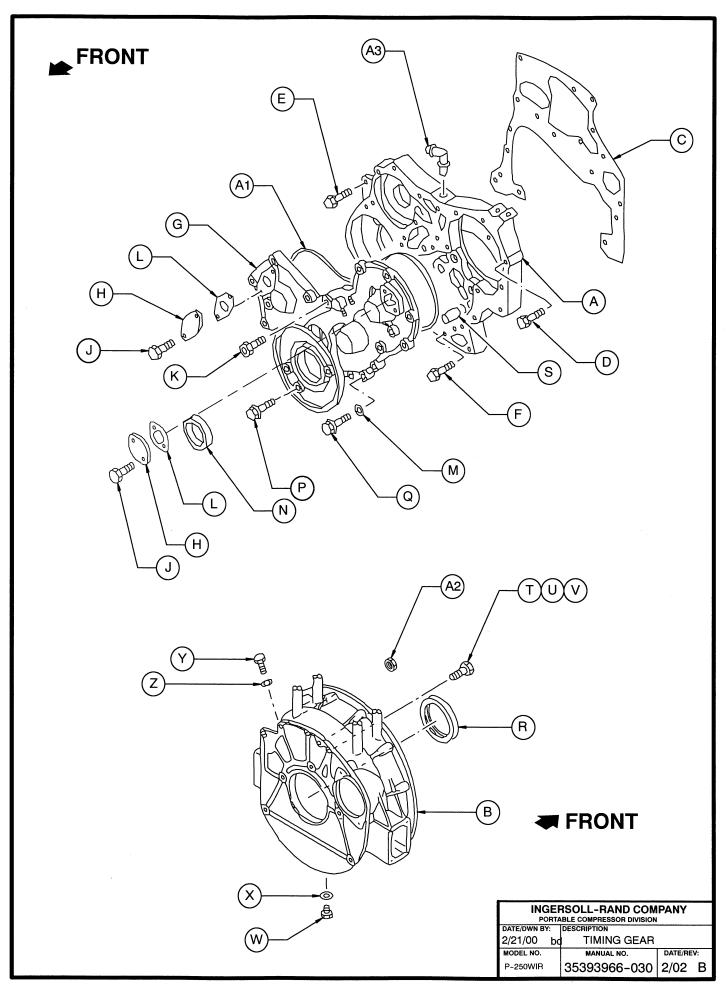
٠,							
I	INGERSOLL-RAND COMPANY						
1		ABLE COMPRESSOR DIVISION					
1	DATE/DWN BY:	DESCRIPTION		_			
	2/21/00 be	CAMSHAFT & \	/ALVE	S			
	MODEL NO.	MANUAL NO.	DATE/RE	V:			
ı	P-250WIR	35393966-027	2/00	Α			



ITEM	C.P.N.	QTY	DESCRIPTION
Α	88081567	1	CRANKSHAFT
В	88081617	5	BEARING, CRANKSHAFT MAIN BLUE
	88081625	5	BEARING, CRANKSHAFT MAIN BLACK
	88081633	5	BEARING, CRANKSHAFT MAIN GREEN
С	88082003	1	FLYWHEEL
D	88080452	1	BOLT, M16-2.0 X 43
E	88081120	1	GEAR, CRANKSHAFT
F	88082318	1	KEY, CRANKSHAFT FEATHER
G	88080882	1	WASHER, FLYWHEEL
Н	88081310	8	BOLT, M13 X 40.5
J	88081450	2	WASHER, CRANKSHAFT THRUST
K	88082169	1	PULLEY, CRANKSHAFT DAMPER
L	88080478	1	WASHER, CRANKSHAFT PULLEY
М	* 49840036	4	PISTON, STANDARD A
	* 49840044	4	PISTON, STANDARD C
N	* 88081856	4	SET, PISTON RING
Р	88081112	4	BEARING, CONNECTING ROD
Q	88081492	4	PIN, PISTON
R	88081609	4	CONNECTING ROD ASSEMBLY
S	* 88081500	4	BUSHING, CONNECTING ROD
Т	88081591	8	BOLT, M11-1.75 X 44.5
U	88082334	8	PIN, CONNECTING ROD BIG END
V	* 88081518	8	RING, PISTON PIN SNAP

^{*} included in CYLINDER LINER SET

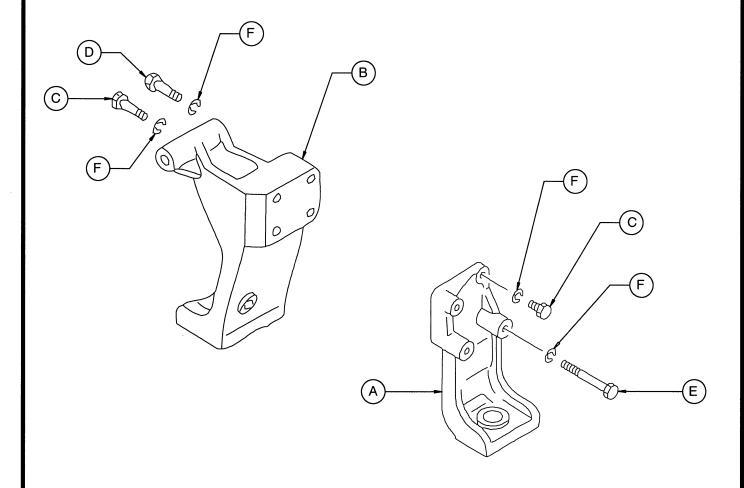
	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION							
ı	DATE/DWN BY:		DESCRIPTION					
1	1/04/00 b	oc	CRANKSHAFT & PI	STONS				
	MODEL NO.		MANUAL NO.	DATE/RE	V:			
ı	P-250WIR		35393966-029	1/00	Α			



ITEM		C.P.N.	QTY	DESCRIPTION
Α		49840051	1	COVER, TIMING GEAR
В		88081724	1	HOUSING, FLYWHEEL
C	*		1	·
D		88080213	•	GASKET, GEAR CASE TO CYL BLOCK
E			3	BOLT, M8-1.25 X 20 w/LK WASHER
F		88080205	3	BOLT, M8-1.25 X 18 w/LK WASHER
G		88080254	2	BOLT, M8-1.25 X 45 w/LK WASHER
		88082177	1	COVER, GEAR CASE
H		88080593	2	COVER, TIMING CHECK HOLE
J		88080023	4	BOLT, M6-1.0 X 12 FLANGE
K		88082730	1	BOLT, M12-1.75 X 55 HEX SOCKET
L	*	00001001	2	GASKET, COVER
М		88082474	1	WASHER, PL COVER
N	*	88080510	1	SEAL, CRANKSHAFT FRONT OIL
Р		88080064	8	BOLT, M8-1.25 X 30 FLANGE
Q		88080072	7	BOLT, M8-1.25 X 60 FLANGE
R	*	88081708	1	SEAL, CRANKSHAFT REAR OIL
S		88082326	2	PIN STRAIGHT 10 X 20
Т		88080270	2	BOLT, M12-1.75 X 30 w/LK WASHER
U		88080262	3	BOLT, M10-1.75 X 30 w/LK WASHER
V		88080445	3	BOLT, M12-1.75 X 25
W		88082748	1	PLUG, M16-2.0 X 12
Х		88082573	1	GASKET, PLUG
Υ		88080387	1	PLUG, SENSOR HOLE
Z		88082581	1	GASKET, HOUSING PLUG
A1	*	88080866	1	GASKET, COVER
A2		88080320	2	NUT, HOUSING
A3		22099691	1	ELBOW, WATER PIPE
1				, <u>-</u>

^{*} included in GASKET SET

	INGERSOLL-RAND COMPANY						
PORTA	BLE COMPRESSOR DIVISION						
DATE/DWN BY:	DESCRIPTION						
2/21/00 bo	2/21/00 bd TIMING GEAR						
MODEL NO.	MANUAL NO.	DATE/REV:					
P-250WIR	35393966-031	2/00 B					



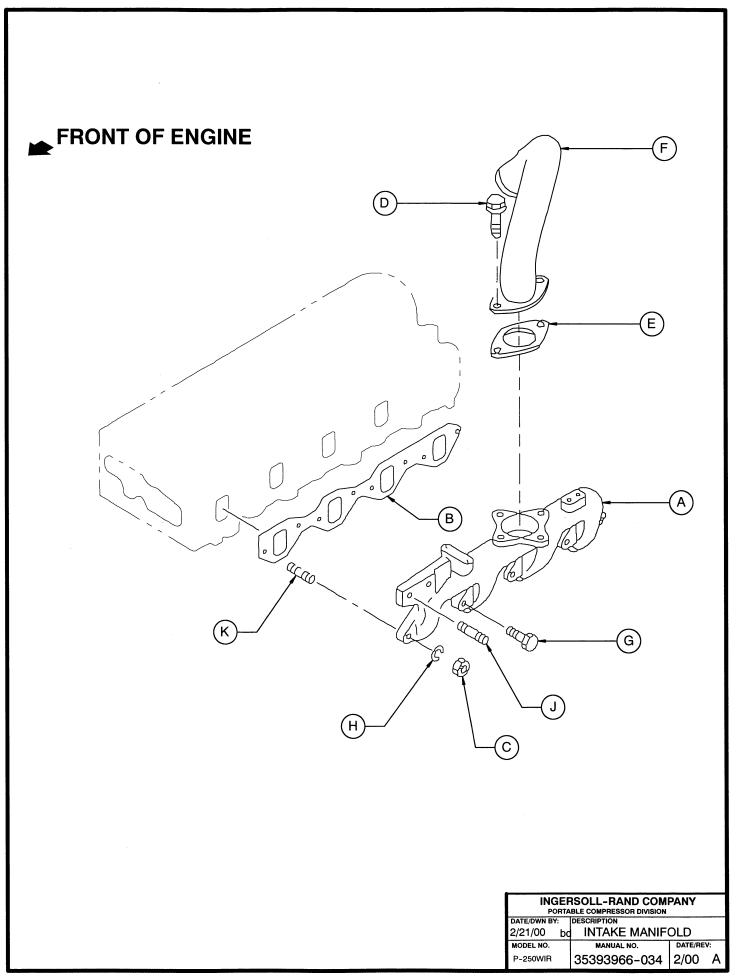
	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
1		DESCRIPTION	_				
	2/21/00 bo	ENGINE MOUNTS	3				
	MODEL NO.	MANUAL NO.	DATE/RE	V:			
	P-250WIR	35393966-032	2/00	Α			

ITEM	C.P.N.	QTY	DESCRIPTION
A	88082060	4	MOLINIT I LI ENGINE
	00002000	J	MOUNT, LH ENGINE
В	88082078	1	MOUNT, RH ENGINE
С	88082201	4	BOLT, M10-1.75 X 60
D	88082193	2	BOLT, M10-1.75 X 45
E	49849359	2	BOLT, M10-1.75 X 80
F	88082441	8	WASHER, ID 10.2

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DATE/DWN BY: DESCRIPTION
2/21/00 bd ENGINE MOUNTS

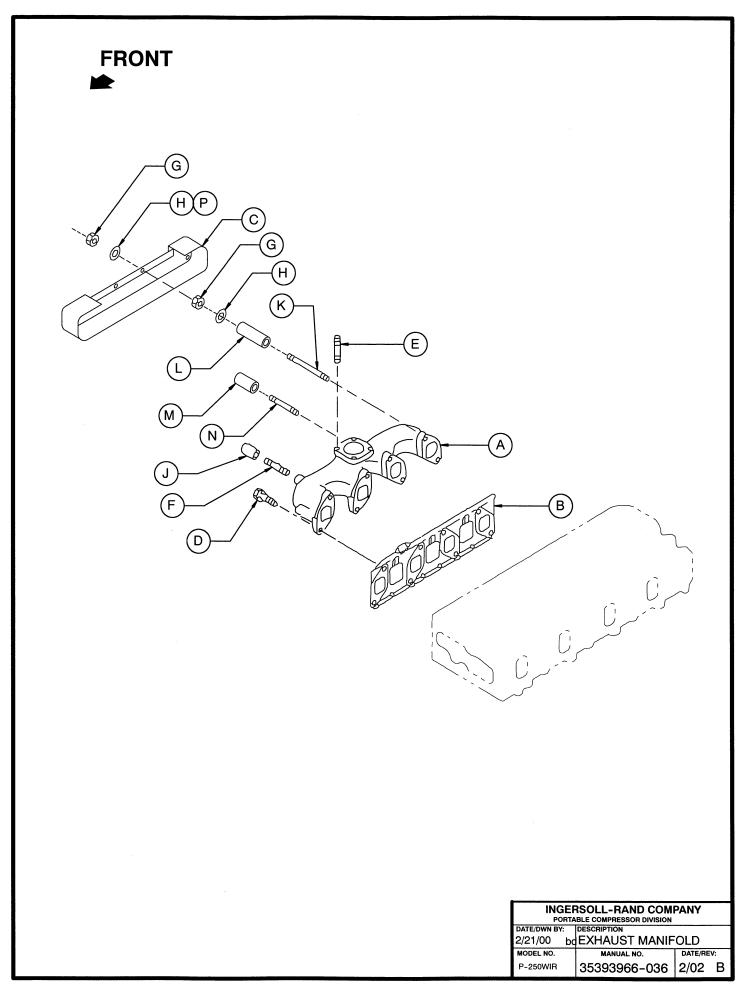
MODEL NO. MANUAL NO. DATE/REV:
P-250WIR 35393966-033 2/00 A



ITEM	C.P.N.	QTY	DESCRIPTION
Α	88081542	1	MANIFOLD, INTAKE
В	* 88081690	1	GASKET, INTAKE MANIFOLD TO HEAD
С	88080312	2	NUT, M8
D	88080114	2	BOLT, M10-1.75 X 25
Е	* 88081559	1	GASKET, INTAKE PIPE
F	49840150	1	DUCT, TURBO INTAKE
G	88080056	6	BOLT, M8-1.25 X 25
Н	88082433	2	WASHER, ID 8
J	88082623	2	STUD, FUEL FILTER
K	88082276	2	STUD, M8-1.25 X 41
ı			

^{*} included in GASKET SET

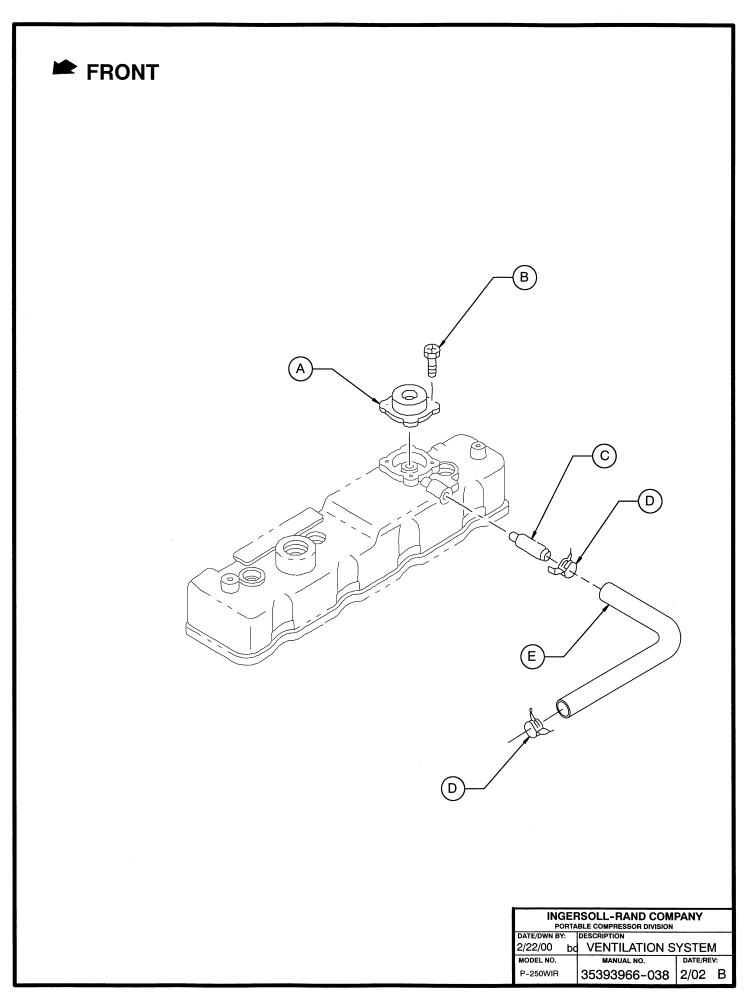
	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
DATE/DWN BY: 2/21/00 bo							
MODEL NO.	MANUAL NO.	DATE/RE	V:				
P-250WIR	35393966-035	2/00	Α				



ITEM	C.P.N.	QTY	DESCRIPTION
A	49840069	1	MANIFOLD, EXHAUST
В	* 88081773	1	GASKET, EXHAUST MANIFOLD
С	88082102	1	SHIELD, HEAT
D	88080239	4	BOLT, M8-1.25 X 30 w/LK WASHER
E	49840234	4	STUD, TURBO
F	49840655	1	STUD, BRACKET EXHAUST MANIFOLD
G	49843337	9	NUT, SELF-LOCK
Н	22099899	8	WASHER, ID 8
J	49840648	1	SPACER, BRACKET
K	49840622	4	STUD, M8-1.25 X 120
L	88082151	2	TUBE, EXHAUST L=70
М	22082051	1	TUBE, EXHAUST L=28
N	49840614	1	STUD, M8-1.25 X 75
Р	88082474	1	WASHER, ID 8

^{*} included in GASKET SET

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DATE/DWN BY: 2/21/00 bo	EXHAUST MAN	NIFOL	D	
MODEL NO.	MANUAL NO.	DATE/RE	V:	
P-250WIR	35393966-037	2/02	D	

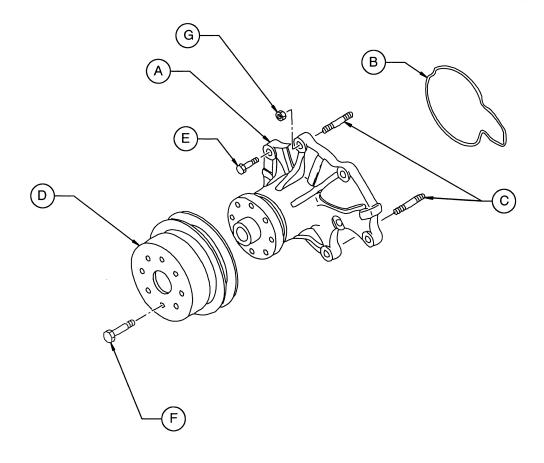


C.P.N.	QTY	DESCRIPTION
54385760	1	VALVE, CRANKCASE
88082250	4	BOLT, M4-0.7 X 8
88081088	1	PIPE, BREATHER
88080759	2	CLIP, VENT HOSE
22144471	1	HOSE, PVC
	54385760 88082250 88081088 88080759	54385760 1 88082250 4 88081088 1 88080759 2

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DATE/DWN BY: DESCRIPTION
2/22/00 bd VENTILATION SYSTEM

MODEL NO. MANUAL NO. DATE/REV:
P-250WIR 35393966-039 4/02 C

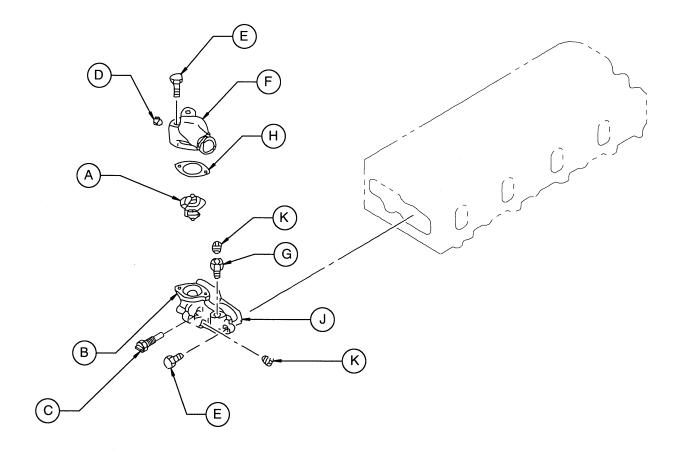


INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION					
	WATER PUMP				
MODEL NO.	MANUAL NO.	DATE/RE	V:		
P-250WIR	35393966-040	2/00	Α		

ITEM	C.P.N.	QTY	DESCRIPTION
Α	88081823	1	WATER PUMP ASSEMBLY w/ GASKET
В	* 54385885	1	GASKET, PUMP TO CYLINDER BLOCK
С	88082268	2	STUD, WATER PUMP
D	88081302	1	PULLEY, WATER PUMP
Ε	88080338	5	BOLT, M8-1.25 X 55 FLANGE
F	88082243	2	SCREW, PULLEY
G	88081054	2	NUT, M8
4			

* included in GASKET SET

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DATE/DWN BY: 2/22/00 bo	WATER PUMI		
MODEL NO.	MANUAL NO.	DATE/REV:	
P-250WIR	35393966-041	2/00 A	

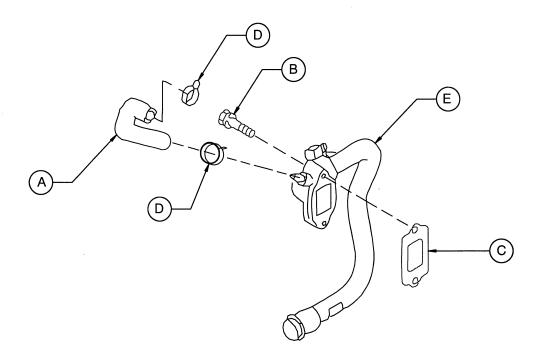


	INGERSOLL-RAND COMPANY				
		BLE COMPRESSOR DIVISION			
		DESCRIPTION			
		THERMOSTAT H	DUSING		
1	MODEL NO.	MANUAL NO.	DATE/REV:		
	P-250WIR	35393966-042	2/00 A		

ITEM	C.P.N.	QTY	DESCRIPTION
-			
Α	54385836	1	THERMOSTAT
В	49840077	1	HOUSING, THERMOSTAT
С	54385828	1	TIMER, QOS
D	88080494	3	PLUG, 3/8 NPT
E	88080106	7	BOLT, M8-1.25 X 30 FLANGE
F	88081898	1	OUTLET, WATER DISCHARGE
G	49849367	1	ADAPTER, THERMOSTAT
Н	* 54385851	1	GASKET, OUTLET PIPE TO HOUSING
J	* 88081922	1	GASKET, THERMOSTAT HOUSING
K	88080494	2	PLUG, THERMOSTAT

INGERSOLL-RAND COMPANY				
PORTA	ABLE COMPRESSOR DIVISION			
DATE/DWN BY:	DESCRIPTION			
2/22/00 be	THERMOSTAT H	OUSING		
MODEL NO.	MANUAL NO.	DATE/REV:		
P-250WIR	35393966-043	2/02 C		

^{*} included in GASKET SET



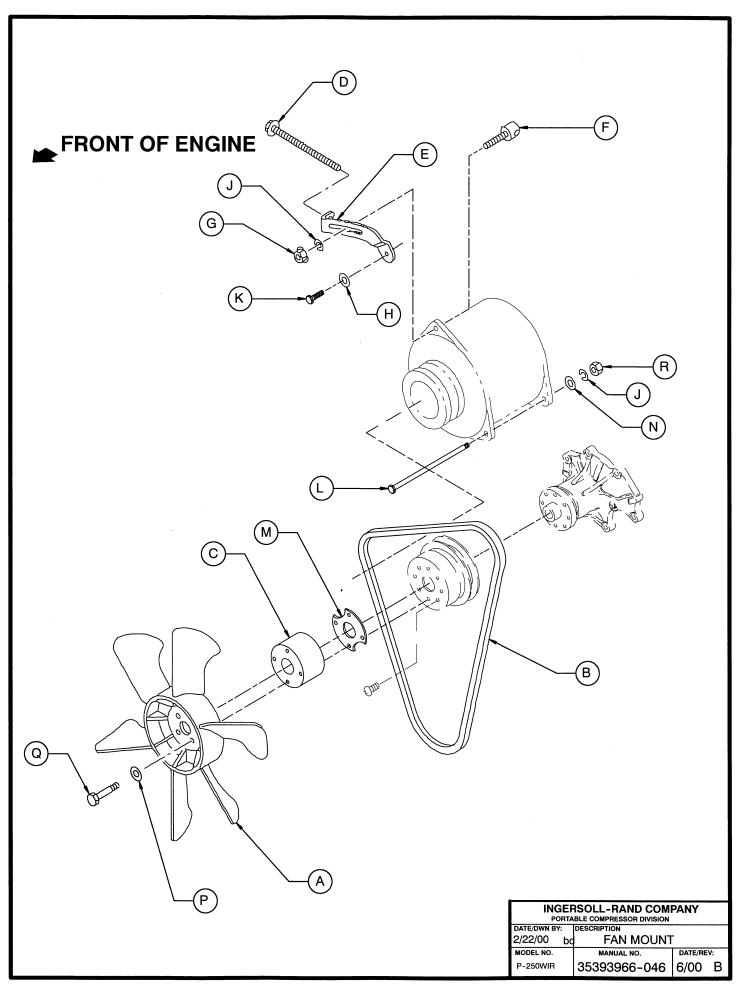
	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
	DATE/DWN BY: 2/22/00 bi	WATER PIPING			
ı	MODEL NO.	MANUAL NO.	DATE/RE	7 :	
	P-250WIR	35393966-044	2/00	Α	

C.P.N.	QTY	DESCRIPTION
49840085	1	HOSE, WATER BY-PASS
49806813	2	BOLT, M8-1.25 X 45 FLANGE
88081179	1	GASKET, WATER PIPE
88080775	2	CLIP, ID 20.8
49840101	1	PIPE, WATER INLET
	49840085 49806813 88081179 88080775	49840085 1 49806813 2 88081179 1 88080775 2

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

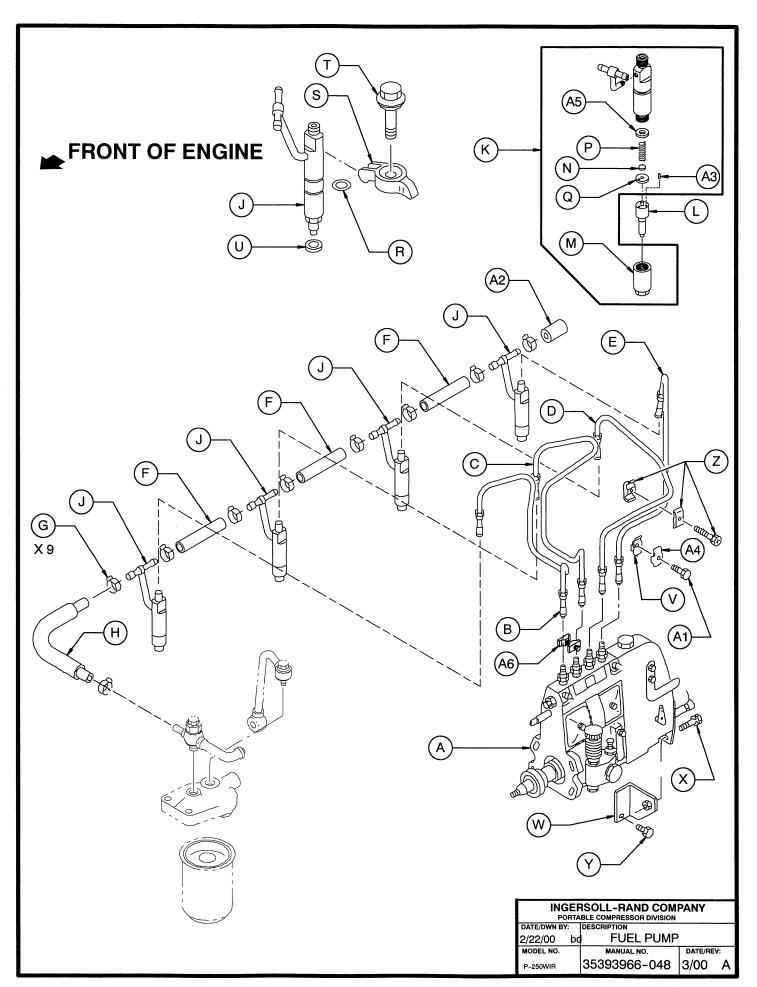
DATE/DWN BY: DESCRIPTION
2/22/00 bd WATER PIPING

MODEL NO. MANUAL NO. DATE/REV:
P-250WIR 35393966-045 2/02 B



C.P.N.	QTY	DESCRIPTION
54486451	1	FAN, TURBO
54486428	1	BELT, TUBO FAN
88081641	1	SPACER, FAN
88081203	1	BOLT, GENERATOR ADJUSTMENT PLATE
88082045	1	PLATE, ADJUSTMENT
88081757	1	SLIDE
88082367	1 .	NUT, ADJUSTMENT PLATE
88082508	1	WASHER, PLATE
88082433	1	WASHER, ID 8
88080049	2	BOLT, M8-1.25 X 20 FLANGE
88081989	1	BOLT, M8-1.25 X 124
49849375	1	SPACER, REAR FAN
88082466	2	WASHER, GENERATOR PLATE
88082490	4	WASHER, PLAIN
88080031	4	BOLT, M6-1.0 X 80 FLANGE
88082359	1	NUT, HEX M08-1.25
•	54486451 54486428 88081641 88081203 88082045 88082045 88082367 88082508 88082433 8808049 8808049 88081989 49849375 88082466 88082490 88080031	54486451 1 54486428 1 88081641 1 88081203 1 88082045 1 88082367 1 88082367 1 88082508 1 88082433 1 88080049 2 88081989 1 49849375 1 88082466 2 88082490 4 88080031 4

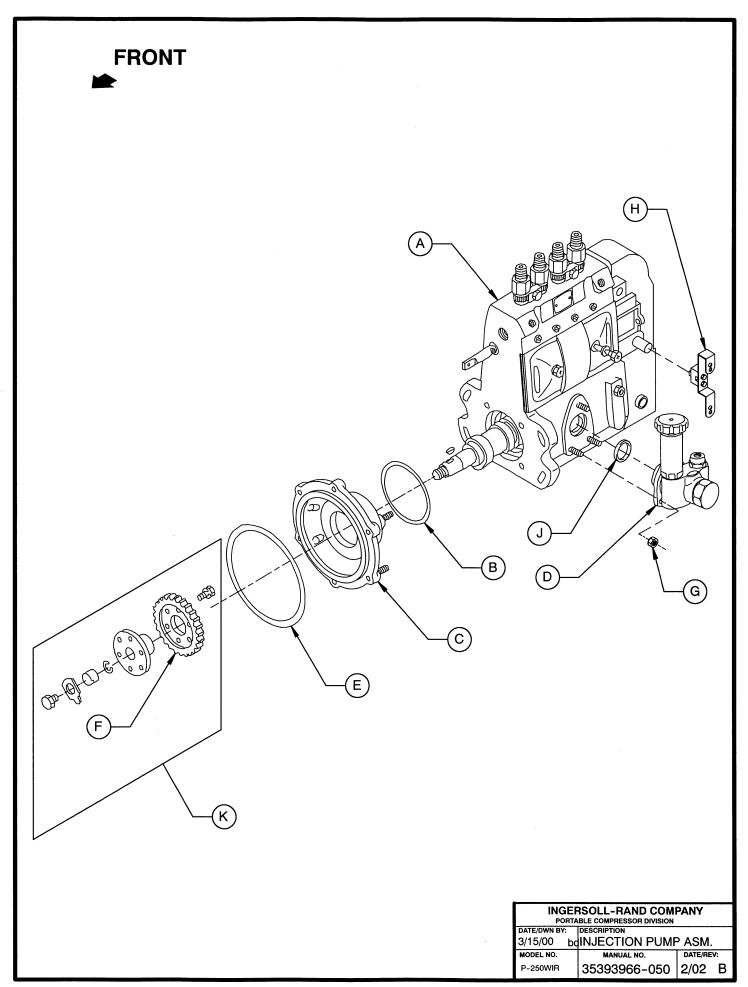
	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION					
1	DATE/DWN BY: DESCRIPTION					
	2/22/00 bo	FAN MOUNT	-			
	MODEL NO.	MANUAL NO.	DATE/REV:			
	P-250WIR	35393966-047	6/00 B			



ITEM	C.P.N.	QTY	DESCRIPTION
Α	49840275	1	INJECTION PUMP ASSEMBLY
В	49840283	1	PIPE, NO. 1 INJECTOR
C	49840291	1	PIPE, NO. 2 INJECTOR
D	49840309	1	PIPE, NO. 3 INJECTOR
E	49840317	1	PIPE, NO. 4 INJECTOR
F	88080957	3	HOSE, FUEL
G	88081062	9	CLIP
Н	54386008	1	HOSE, FUEL
J	49840325	4	INJECTOR NOZZLE ASSEMBLY
K	88081435	4	NOZZLE HOLDER ASSEMBLY
L	49840333	4	NOZZLE, INJECTOR
M	88081021	4	NUT
N	88081104	4	SEAT, NOZZLE SPRING
P	88081005	4	SPRING
Q	88081013	4	SPACER
	* 54385935	4	GASKET
S	88081385	4	CLAMP
T	88081393	4	BOLT
	* 49840341	4	GASKET, INJECTOR NOZZLE
V	88081336	1	CLIP, INJECTOR PIPE
w	49840358	1	BRACKET, PUMP
X	88080304	1	BOLT, M10-2.0 X 25 w/ WASHER
Ϋ́	8808080	1	BOLT, M8-1.25 X 20 FLANGE
Z	88082722	3	CLIP, INJECTOR PIPE
A1	88080288	1	BOLT, M8-1.25 X 18 w/ WASHER
A2	88081534	1	CAP, FUEL END NOZZLE
A3	49849383	8	PIN, NOZZLE
A4	49849391	1	CLIP, INJECTOR PIPE TOP
A5	49849409	A/R	SHIM, .500 NOZZLE SPRING
	49849417	A/R	SHIM, .510 NOZZLE SPRING
i	49849425	A/R	SHIM, .520 NOZZLE SPRING
1	49849433	A/R	SHIM, .530 NOZZLE SPRING
1	49849441	A/R	SHIM, .540 NOZZLE SPRING
1	49849458	A/R	SHIM, .550 NOZZLE SPRING
1	49849466	A/R	SHIM, .560 NOZZLE SPRING
1	49849474	A/R	SHIM, .570 NOZZLE SPRING
A6	54519129	2	CLIP, NOZZLE LOCK
,	07010120	-	OLIF, NOZZEE LOOK

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DATE/DWN BY: DESCRIPTION				
2/22/00 bo	FUEL PUMP			
MODEL NO.	MANUAL NO.	DATE/RE	V:	
P-250WIR	35393966-049	2/00	Α	

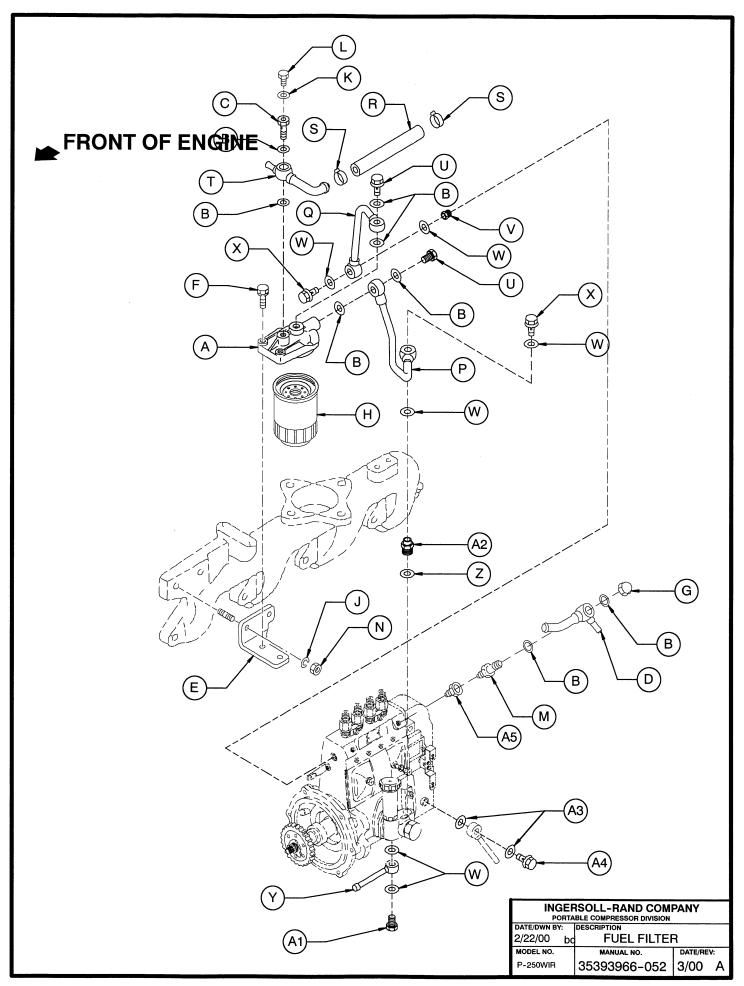
^{*} included in GASKET SET



ITEM	C.P.N.	QTY	DESCRIPTION
Α	49840275	1	INJECTION PUMP ASSEMBLY
В	54519061	1	GASKET, INJECTION PUMP COVER
С	54519095	1	COVER, INJECTION PUMP FRONT
D	54385786	1	PUMP ASM., INJECTION FEED
E	* 54519103	1	GASKET, FRONT INJECTION PUMP COVER
F	54519111	1	GEAR, COUPLING
G	54519087	1	NUT, FEED PUMP
Н	54519079	1	LEVER, SPEED CONTROL
J	54519053	1	GASKET, FEED PUMP
K	22083943	1	COUPLING ASM., TURBO INJECTION PUMP
1			

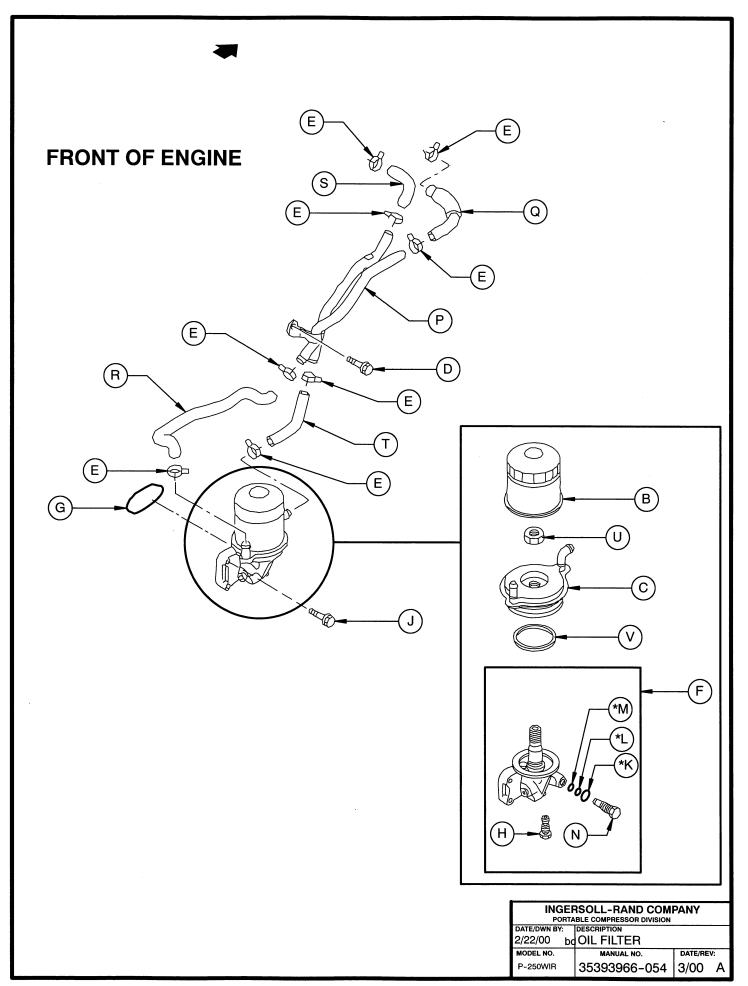
INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION					
DATE/DWN BY: DESCRIPTION 3/15/00 bd INJECTION PUMP ASM.					
MODEL NO.	MANUAL NO.	DATE/REV:			
P-250WIR	35393966-051	2/02 B			

^{*} included in GASKET SET



ITEM	C.P.N.	QTY	DESCRIPTION	
				_
A	88080643	1	COVER, FUEL FILTER	
В	88082607	8	GASKET	
С	88082714	1	VALVE, OVERFLOW	
D	88081328	1	OVERFLOW PIPE ASSEMBLY	
Е	88081211	1	BRACKET, FUEL FILTER	
F	88080130	2	BOLT, M10-1.5 X 35 FLANGE	
G	88080346	1	NUT, FUEL CAP	
Н	54381306	1	FUEL FILTER ELEMENT KIT	
J	88082441	2	WASHER, ID 10.2	
K	88082557	1	GASKET, FUEL FILTER PLUG	
L	88082532	1	PLUG, OVERFLOW VALVE	
M	88080403	1	VALVE, OVERFLOW	
N	88082375	2	NUT, BRACKET	
. Р	88081260	1	PIPE, FUEL FEED	
Q	88081278	1	PIPE, FUEL	
R	88080007	1	HOSE, FUEL FILTER TO INJECTION PUMP	
S	49840366	2	CLIP, HOSE	
Т	49849482	1	PIPE, FUEL RETURN	
U	88082672	2	BOLT, EYE M14-2.0 X 29	
V	54488259	1	ADAPTER, PUMP HOUSING EYE BOLT	
W	54488267	6	GASKET, INJECTION PUMP EYE BOLT	
Х	54488283	2	BOLT, FUEL INLET INJECTION PUMP ASSEMBLY	
Υ	88080650	1	FEED PUMP FUEL PIPE ASSEMBLY	
Z	54488325	1	GASKET	
A1	54488291	1	BOLT, FEED PUMP FUEL INLET EYE	
A2	54488309	1	ADAPTER, FUEL FEED PUMP EYE BOLT	
A3	54518980	2	GASKET, INJ PUMP OIL FEED BOLT	
A4	54519004	1	BOLT, INJ PUMP OIL FEED EYE	
A5	54519020	1	ADAPTER, FUEL PIPE	
				·

1	INGERSOLL-RAND COMPANY				
1	PORTABLE COMPRESSOR DIVISION DATE/DWN BY: DESCRIPTION 2/22/00 bd FUEL FILTER				
ı					
ı	MODEL NO.	MANUAL NO.	DATE/REV:		
	P-250WIR	35393966-053	3/00 A		



ITEM	C.P.N.	QTY	DESCRIPTION	
A	~		~	
В	54381314	1	ELEMENT, OIL FILTER	
С	49840374	1	COOLER ASSEMBLY	
D	49840382	1	BOLT, M8-1.25 X 14 LOCK WASHER	
Ε	88080775	8	CLIP, OIL COOLER HOSE	
F	49840408	1	HEAD, OIL FILTER	
G	88081666	1	GASKET, OIL FILTER HEAD	
Н	49849508	1	VALVE, OIL RELIEF	
J	88080106	4	BOLT, M8-1.25 X 30 FLANGE	
K	* 49849516	1	GASKET, ID 13.6	
L	* 49849524	1	GASKET, ID 8.8	
М	* 49849532	1	GASKET, ID 8.6	
N	88080973	1	PLUG, SCREW	
, Р	49840416	1	PIPE, FILTER COOLER TO WATER PUMP	
Q	49840424	1	HOSE, UPPER OIL COOLER INLET	
R	49840432	1	HOSE, LOWER OIL COOLER INLET	
S	49840440	1	HOSE, UPPER OIL COOLER RETURN	
Т	49840457	. 1	HOSE, LOWER OIL COOLER RETURN	
U	54519038	1	NUT, OIL COOLER FILTER	
V	54519046	1	GASKET, OIL COOLER FILTER	
1				

^{*} included with item B, OIL FILTER ELEMENT

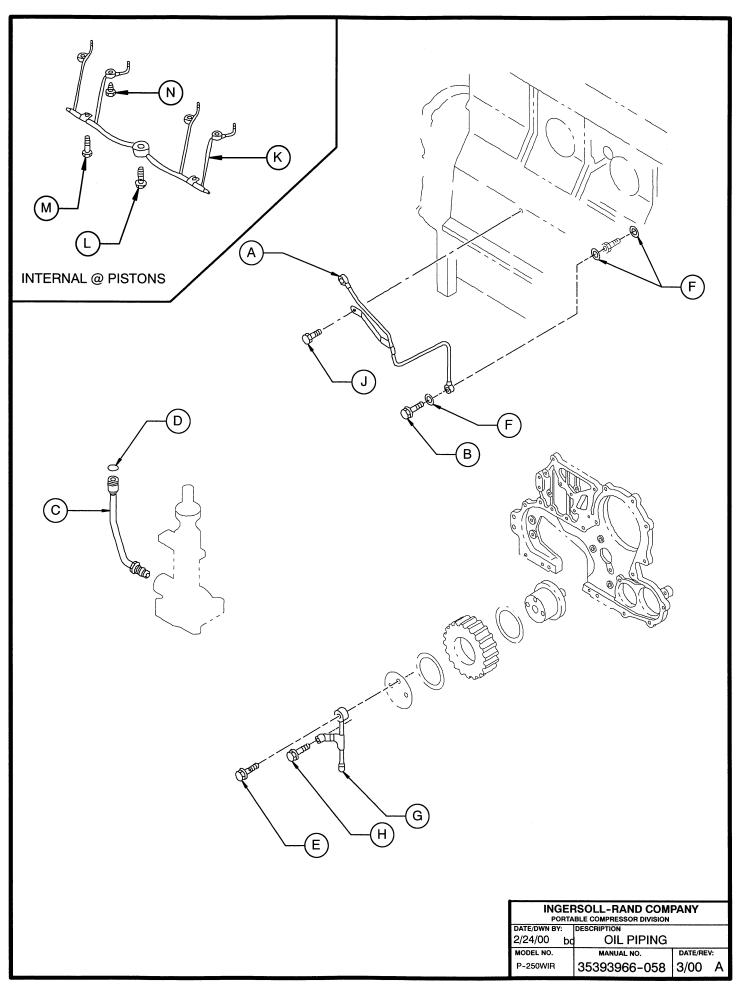
INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DATE/DWN BY:	DESCRIPTION			
2/22/00 bo	OIL FILTER			
MODEL NO.	MANUAL NO.	DATE/REV:		
P-250WIR	35393966-055	10/01 C		

FRONT OF ENGINE INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION DATE/DWN BY: DESCRIPTION 2/24/00 OIL PUMP MODEL NO. MANUAL NO. DATE/REV: P-250WIR 35393966-056 3/00 A

ITEM	C.P.N.	QTY	DESCRIPTION
	00001101	4	OIL DUMP ACCEMPLY
Α	88081161	1	OIL PUMP ASSEMBLY
В	88082219	4	BOLT, M8-1.25 X 25 w/ LK WASHER
С	88081583	1	OIL PUMP GEAR SET
D	88080296	2	BOLT, M8-1.25 X 25 w/ LK & PLAIN WASHER
Е	88082698	1	COVER, OIL PUMP
F	88082706	1	STRAINER

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

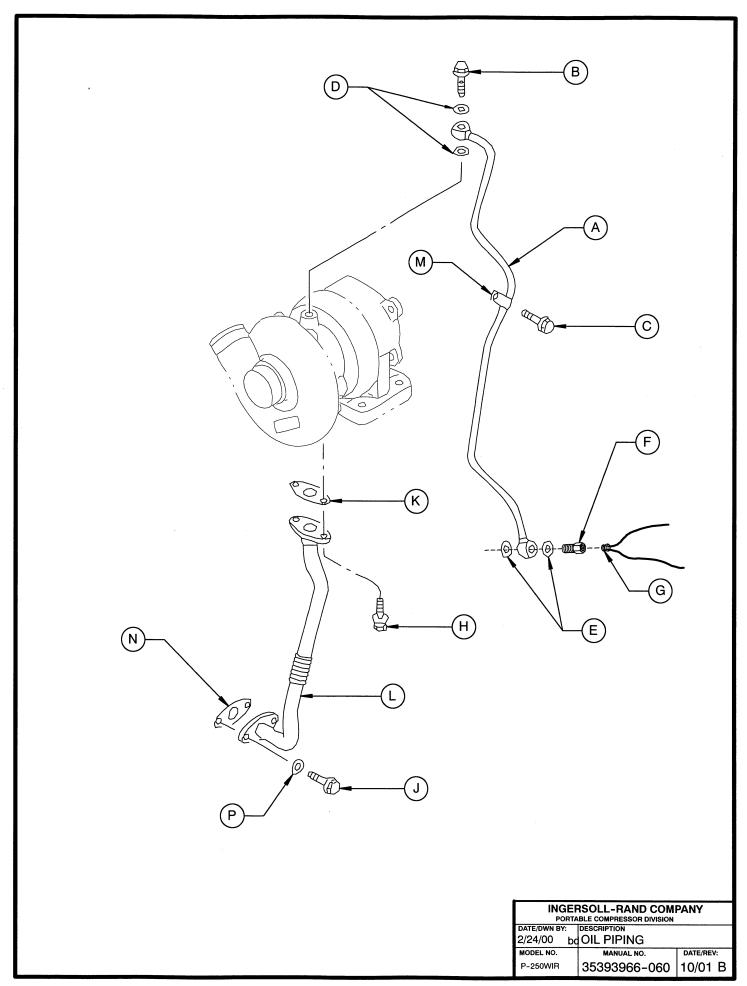
DATE/DWN BY: DESCRIPTION
1/10/00 bd OIL PUMP
MODEL NO.
P-100WIR P-18SWIR 35393966-057 3/00 A



ITEM	C.P.N.	QTY	DESCRIPTION	
Α	88080981	1	PIPE, OIL	
В	88080528	1	BOLT, M8-1.25 X 20 FLANGE	
С	88081401	1	PIPE, OIL	
D	* 88080502	1	GASKET, OIL PIPE	
Е	88081468	1	NIPPLE, INJECTION PUMP	
F	* 88082599	3	GASKET, OIL PIPE CAP NUT	
G	88081864	1	PIPE, OIL	
Н	88080221	1	BOLT, M8-1.25 X 22 w/ LOCK WASHER	
J	88080171	1	BOLT, M6-1.0 X 12 w/ LOCK WASHER	
K	49840531	1	PIPE, OIL JET	
L	49840572	1	VALVE, OIL RELIEF	
М	49840671	2	BOLT, M8-1.25 X 10 FLANGE	
N	49840663	4	BOLT, M6-1.0 X 20 FLANGE	

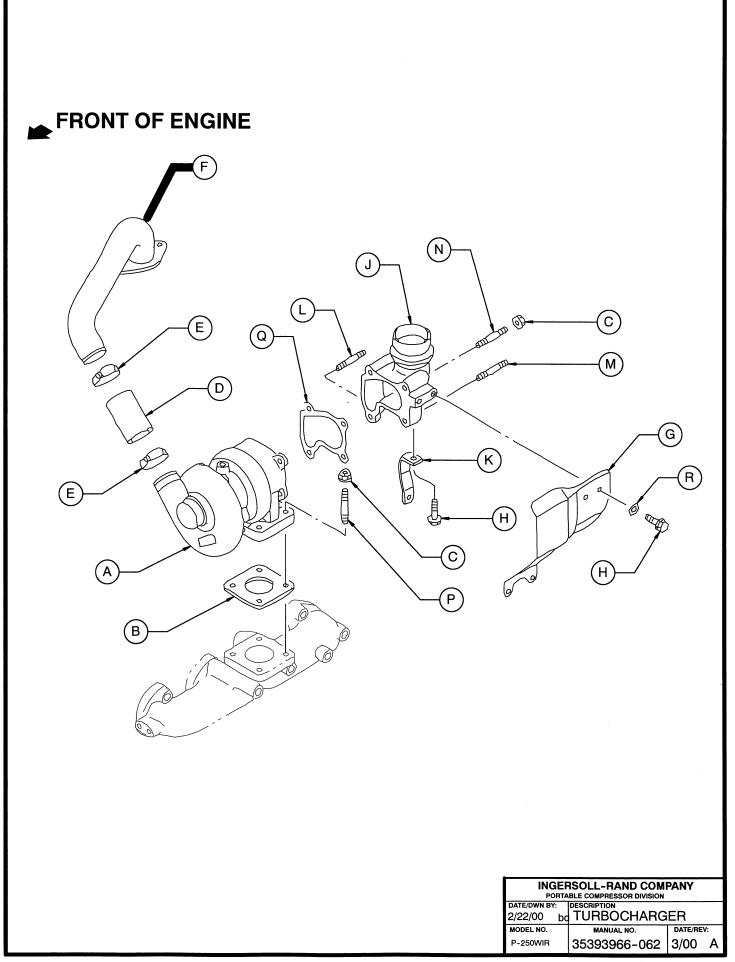
^{*} included in GASKET SET

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION					
DATE/DWN BY:	DATE/DWN BY: DESCRIPTION				
2/24/00 bo	2/24/00 bd OIL PIPING				
MODEL NO. MANUAL NO. DATE/R					
P-250WIR	35393966-059	3/00	Α		



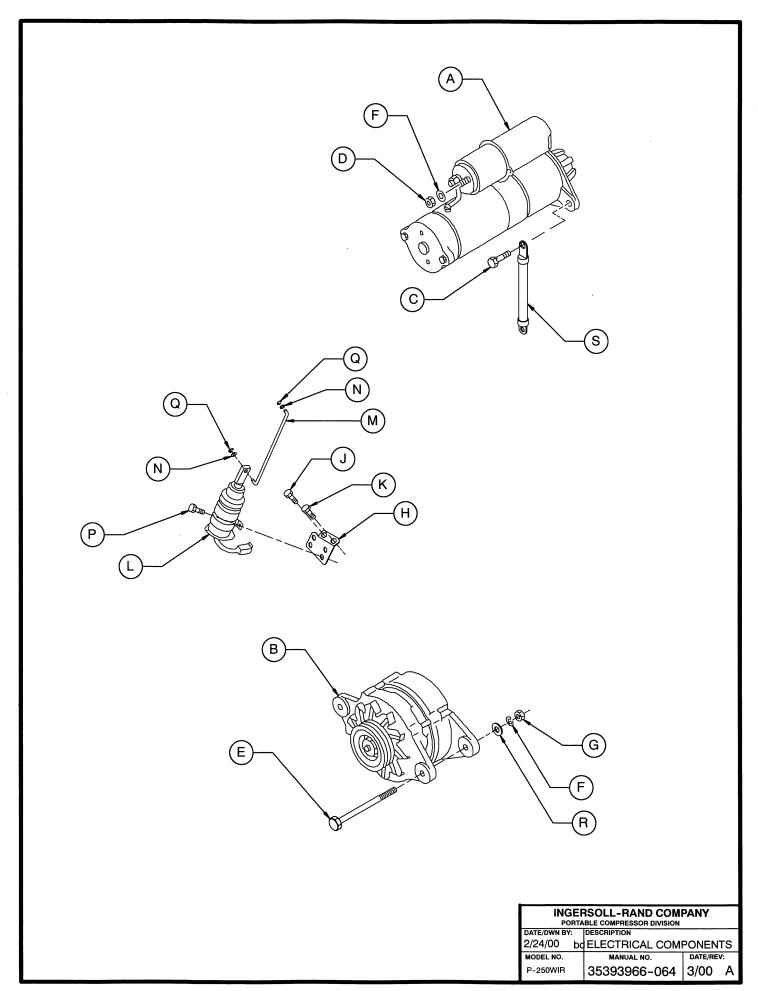
ITEM	C.P.N.	QTY	DESCRIPTION
Α	49840549	1	PIPE, TURBO OIL FEED
В	49840580	1	BOLT, JOINT
С	88080221	1	BOLT, M8-1.25 X 22 w/ LOCK WASHER
D	49840507	2	GASKET, UPPER INLET OIL PIPE
Е	88082565	2	GASKET, LOWER INLET PIPE
F	49849573	1	ADAPTER, OIL PRESSURE SWITCH
G	36878379	1	SWITCH, OIL PRESSURE
Н	49840465	2	BOLT, M6-1.0 X 18 LOCKWASHER
J	88080049	2	BOLT, M8-1.25 X 20 FLANGE
K	49840564	1	GASKET, OIL PIPE ENGINE
L	49840598	1	PIPE, OIL EXHAUST TURBO
М	49840523	1	CLIP, OIL PIPE
N	49840556	1	GASKET, OIL PIPE TURBO
Ρ	88082599	2	GASKET, OIL PIPE CAP NUT

ı	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
ı	DATE/DWN BY:		DESCRIPTION				
		bd	611 5151116				
1	MODEL NO.		MANUAL NO.	DATE/REV:			
	P-250WIR		35393966-061	10/01 C			



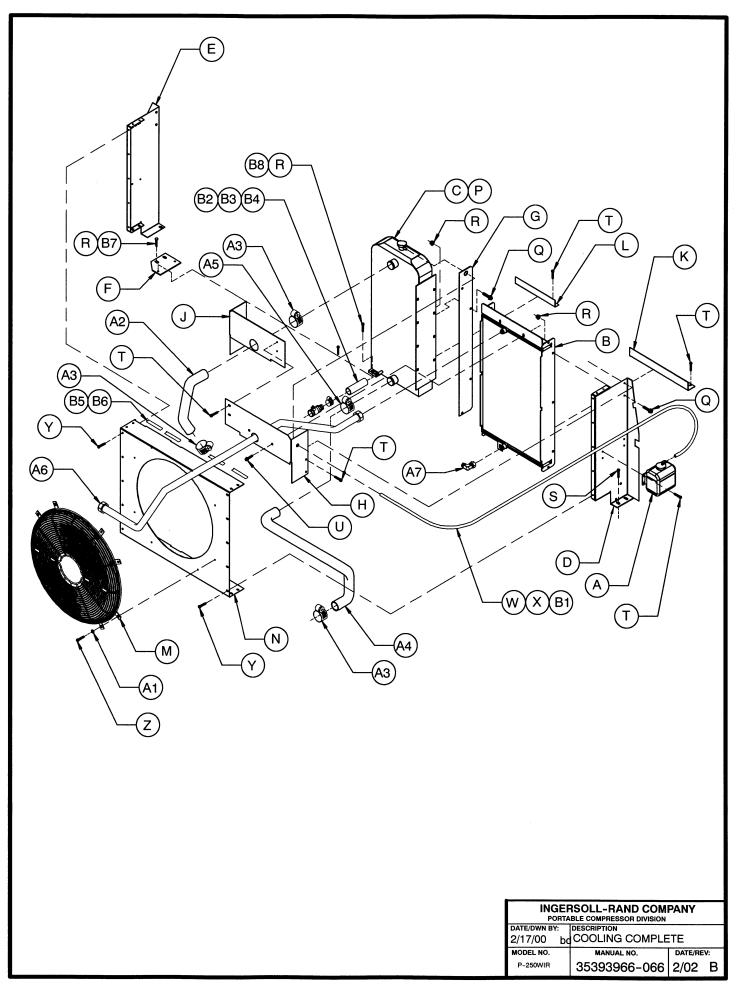
ITEM	C.P.N.	QTY	DESCRIPTION
Α	49840119	1	TURBOCHARGER
В	49840127	1	GASKET, TURBO TO EXHAUST DUCT
С	49840135	4	NUT, TURBOCHARGER
D	49840143	1	HOSE, TURBO INTAKE PIPE
Е	49840259	2	CLIP, HOSE
F	49840150	1	DUCT, TURBO INTAKE
G	49840168	1 .	SHIELD, TURBO HEAT
Н	49841869	4	BOLT, HEAT SHIELD
J	49840184	1	ADAPTER, TURBO TO EXHAUST PIPE
K	49840192	1	BRACKET, ADAPTER TO EXHAUST MANIFOLD
L	49840200	1	STUD, TURBO TO ADAPTER
М	49840218	1	STUD, TURBO TO ADAPTER
N	49840226	2	STUD, TURBO TO ADAPTER
Р	49840234	4	STUD, TURBO
Q	49840242	1	GASKET, TURBO
R	88082474	1	WASHER, PLAIN HEAT SHIELD

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
DATE/DWN BY: DESCRIPTION 2/22/00 bg TURBOCHARGER						
MODEL NO.	MANUAL NO.	DATE/REV:				
P-250WIR	35393966-063	2/02 C				



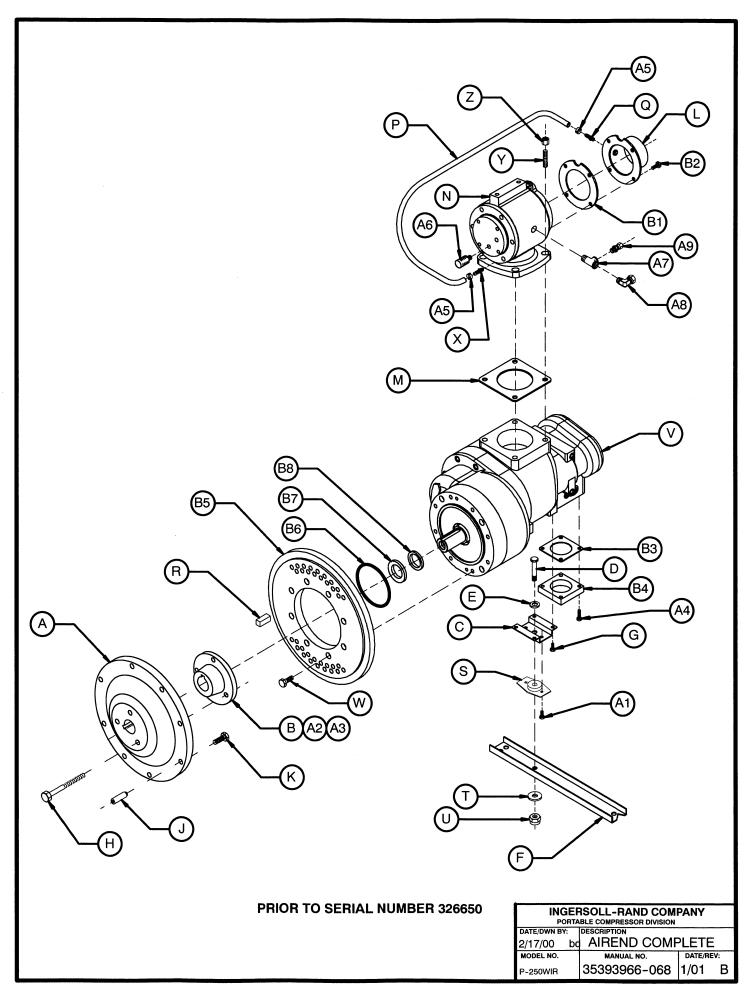
ITEM	C.P.N.	QTY	DESCRIPTION
Α	54386016	1	STARTER MOTOR, 12V - 2.2KW
В	54385794	1	ALTERNATOR, 12V - 50A
С	88080163	2	BOLT, M12-2.0 X 35 FLANGE
D	88082383	1	NUT, M8
E	88081989	1	BOLT, M8-1.25 X 124
F	88082433	2	WASHER, ID 8
G	88082367	1	NUT, M8
Н	88082094	1	BRACKET, SOLENOID VALVE
J	88080122	1	BOLT, M10-1.5 X 30 FLANGE
K	88080130	1	BOLT, M10-1.5 X 35 FLANGE
L	54385992	1	SOLENOID, SHUTDOWN
М	88082086	1	ROD, LINK
N	88082458	3	WASHER, PLAIN
Р	88080189	4	BOLT, M6-1.0 X 16 w/ LOCK WASHER
Q	88082524	2	RING, SNAP
R	88082466	1	WASHER, PLAIN GENERATOR
S	49849540	1	CABLE, GROUND
i			

I	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
ı	DATE/DWN BY: DESCRIPTION						
2/24/00 bd ELECTRICAL COMPONEN							
ı	MODEL NO.	MANUAL NO.	DATE/REV:				
	P-250WIR	35393966-065	10/00 B				



ITEM	C.P.N.	(QTY [DESCRIPTION	
Λ	26004040	4	POTTLE	COOLANT RECOVERY	
A B	36884948 36887669	1	OIL COC	, COOLANT RECOVERY	
С	36889772	1	RADIATO		
D	36923001	1		, COOLER, STREET	PRIOR TO SN 326650
U	54731690	1		, COOLER, STREET , COOLER, STREET	BEGIN WITH SN 326650
Е	36923019	1		, COOLER, STREET , COOLER, CURB	PRIOR TO SN 326650
_	54731682	1	-	, COOLER, CURB	BEGIN WITH SN 326650
F	54368360	1		ET, COOLER MTG	BEGIN WITH SN 320030
G	54370986	1		T, COOLER	
H	54371463	1		, COOLER TOP STREET	
J	54371471	1	•	COOLER TOP CURB	
K	54372842	1	-	OIL COOLER BOTTOM	·
L	54372859	1		, RADIATOR BOTTOM	
M	36878262	1	FAN GUA		
N N	54378575	1	SHROUE		
P	36769560	1	CAP, RAI		
Q	96702055	8	· ·	HEX FLANGE HEAD M08-1.25 X 20	1
R	36881886			X FLANGE M08-1.25	,
S	35279025	7		TAPPING M08-1.25 X 25	
T	36797652	10		TAPPING M06-1.0 X 12	
U.	36898096	2		HEX FLANGE HEAD M06-1.0 X 20	
V	36898104	2		X FLANGE M06-1.0	
w	35360775		TUBING,		
×	35222538	3	CLAMP, 5		
Y	92368687			TAPPING M06-1.0 X 12	
Z	35300771	8		TAPPING M06-1.0 X 20	·
A1	36853265	8		R, PLASTIC	
A2	54404249			OP RADIATOR	
АЗ	35221639		CLAMP, I		
A4	36891158			OTTOM RADIATOR	
A5	35221662	1	CLAMP, H		
A6	36923555	1	TUBE, O		
A7	35292051	1	-	SWIVEL 1 5/16-12	
A8	35132877	1	HOSE		
A9	35119395	1	CLAMP,F	HOSE	
B1	36797652	1	SCREW,	TAPPING M06-1.0 X 12	
B2	36892479	17"	HOSE		
В3	30641278	1	COCK, D	RAIN	
B4	95220844	2	CLAMP,	9/16 HOSE	
B5	54492126	2	STRIP, S	EAL	
B6	36879765	6	STRIP, S	EAL	
B7	35374834	1	SCREW,	HEX M08-1.25 X 25	
B8	35271170	1	SCREW,	HEX M08-1.25 X 40	

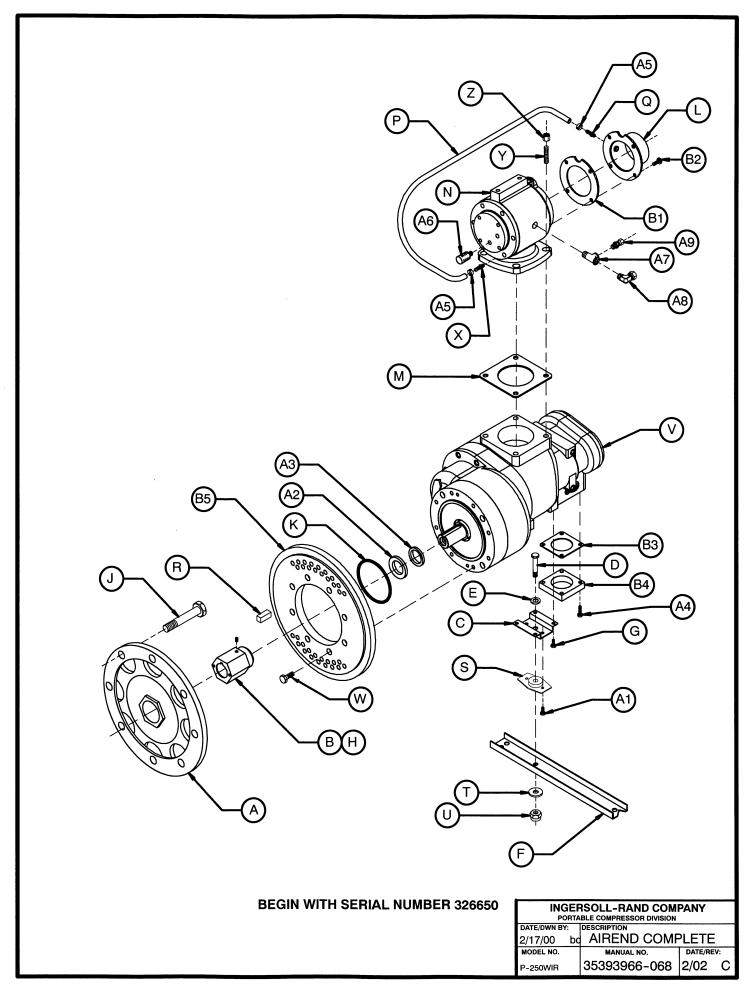
INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION					
DATE/DWN BY: DESCRIPTION 2/17/00 bd COOLING COMPLETE					
MODEL NO. MANUAL NO. DATE/REV:					
P-250WIR	35393966-067	2/02	В		



ITEM	C.P.N.	QTY	DESCRIPTION
	00774004		COURTING
A	36774321	1	COUPLING
В	54413059	1	BUSHING
C	54471685	1	BRACKET, A/E SUPPORT
D	96701503	1	SCREW, HEX M16-2.0 X 90
E	95935052	1	WASHER, FLAT
F	54471677	1	BRACKET, A/E MOUNTING
G	35358274	4	SCREW, SOCKETHEAD M16-2.00 X 25
H	95934840	3	SCREW, HEX 5/16-18 X 2.75
J	35329887	8	DRIVER, COUPLING 3/8"
K	95055307	8	SCREW, CAP SOCKETHEAD 3/8-16 X 2
L	35588532	1	FLANGE, UNLOADER INLET
M	36889202	1	GASKET, UNLOADER
N	54436845	1	UNLOADER ASSEMBLY
. Р	35282292	14"	TUBING .
Q	35316587	1	ADAPTER, BARBED 1/8"
R	96721105	1	KEY, COUPLING 8 x 12 x 70 mm
S	54471057	1	ISOLATOR, RUBBER
Т	35327212	1	WASHER, SNUBBER
U	96704630	1	NUT, NYLOC M16-2.0
V	54390943	1	AIREND
W	96708201	8	SCREW, SOCKETHEAD M10-1.50 X 80
X	35323542	1	ADAPTER, BARBED 1/8"
Υ	35323450	4	STUD, M16-2.0 X 55
Z	96701750	4	NUT, HEX M16-2.0
A1	35279025	6	SCREW, TAPPING M08-1.25 X 20
A2	95065660	1	SCREW, SET 1/4-20 X .50
АЗ	95065538	1	SCREW, SOCKETHEAD SET 5/16-18 X .50
A4	96720545	4	SCREW, SOCKETHEAD M16-2.0 X 35
A5	35377621	2	CLAMP, SPRING 1/4"
A6	36766756	1	MUFFLER, ORIFICE .140
A7	35114545	1	TEE, STREET 1/4NPT
A8	35283464	1	ELBOW, 1/4NPT -4JIC
A9	35369347	1	CONNECTOR, MALE 1/4NPT X 3/8 TUBE
B1	35588318	1	GASKET, UNLOADER INLET
B2	96702048	4	SCREW, HEX M08-1.25 X 16
В3	93481455	1	GASKET,A/E DISCHARGE
B4	54413042	1	PLATE, DISCHARGE
B5	54390950	1	ADAPTER, CF90 A/E
В6	90544772	1	O-RING
В7	35317599	1	SEAL, DOUBLE ELEMENT
В8	39317581	1	SEAL, SINGLE ELEMENT

PRIOR TO SERIAL NUMBER 326650

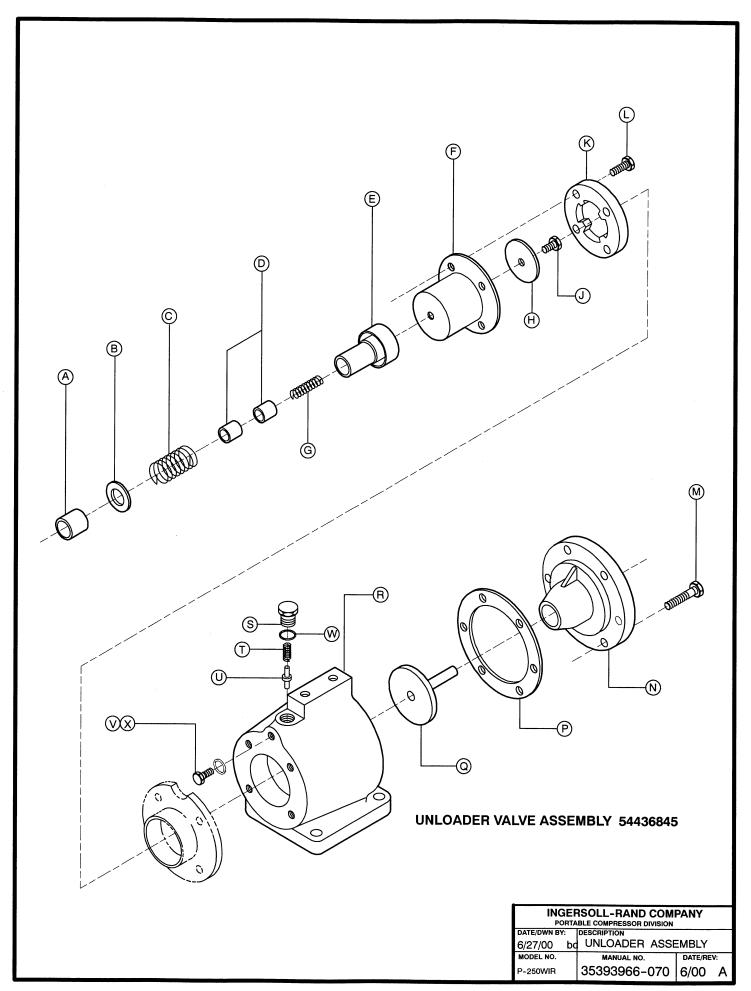
INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION					
DATE/DWN BY:					
2/17/00 bo	2/17/00 bd AIREND COMPLETE				
MODEL NO. MANUAL NO. DATE/REV:					
P-250WIR 35393966-069 1/01					



ITEM	C.P.N.	QTY	DESCRIPTION
Α	54755087	1	COUPLING
В	54755111	1	BUSHING, HEX
С	54471685	1	BRACKET, A/E SUPPORT
D	96701503		
E	95935052	1	SCREW, HEX M16-2.0 X 90
F	54471677	1	WASHER, FLAT
G	35358274	1	BRACKET, A/E MOUNTING
H		4	SCREW, SOCKET SET 2/8, 16 X 1/4
J	95065637 36880995	1	SCREW, SOCKET SET 3/8-16 X 1/4
K		8	SCREW, HEX FLANGE M10-1.5 X 30
	90544772	1	O-RING
L M	35588532	1	FLANGE, UNLOADER INLET
M	36889202	1	GASKET, UNLOADER
N	54436845	1	UNLOADER ASSEMBLY
P	35282292	14"	TUBING
Q	35316587	1	ADAPTER, BARBED 1/8"
R	96721105	1	KEY, COUPLING 8 x 12 x 70 mm
S	54471057	1	ISOLATOR, RUBBER
T	35327212	1	WASHER, SNUBBER
U	96704630	1	NUT, NYLOC M16-2.0
V	54390943	1	AIREND
W	96708201	8	SCREW, SOCKETHEAD M10-1.50 X 80
X	35323542	1	ADAPTER, BARBED 1/8"
Y	35323450	4	STUD, M16-2.0 X 55
Z	96701750	4	NUT, HEX M16-2.0
A1	35279025	6	SCREW, TAPPING M08-1.25 X 20
A2	35317599	1	SEAL, DOUBLE ELEMENT
A3	39317581	1	SEAL, SINGLE ELEMENT
A4	96720545	4	SCREW, SOCKETHEAD M16-2.0 X 35
A5	35377621	2	CLAMP, SPRING 1/4"
A6	36766756	1	MUFFLER, ORIFICE .140
A7	35114545	1	TEE, STREET 1/4NPT
A8	35283464	1	ELBOW, 1/4NPT -4JIC
A 9	35369347	1	CONNECTOR, MALE 1/4NPT X 3/8 TUBE
B1	35588318	1	GASKET, UNLOADER INLET
B2	96702048	4	SCREW, HEX M08-1.25 X 16
B3	93481455	1	GASKET,A/E DISCHARGE
B4	54413042	1	PLATE, DISCHARGE
B5	54390950	1	ADAPTER, CF90 A/E

BEGIN WITH SERIAL NUMBER 326650

ı	INGERSOLL-RAND COMPANY						
ı	PORTA	ABLE COMPRESSOR DIVISION					
ı	DATE/DWN BY:	DESCRIPTION					
ı	2/17/00 bo	AIREND COMP	PLETE				
ı	MODEL NO.	MANUAL NO.	DATE/REV:				
	P-250WIR	35393966-069	2/02 C				

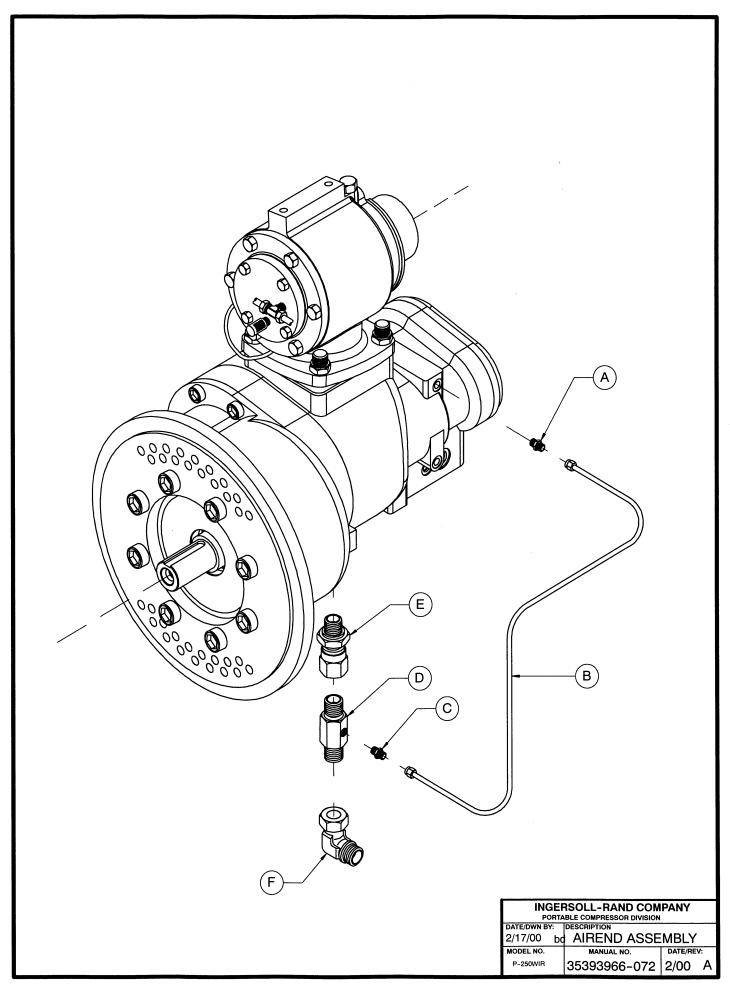


ITEM	C.P.N.	QTY	DESCRIPTION
A ★	35318013	1	HOUSING BUSHING
B ★	35317205	1	WASHER
C ★	35322767	1	PISTON SPRING
D ★	35318005	2	PISTON BUSHING
Е	35588193	1	PISTON UNLOADER
F ★	35317197	1	DIAPHRAGM
G ★	35321603	1	SPRING
Н ★	35317239	1	PISTON WASHER
J ★	35321595	1	CAPSCREW
K	35836949	1	PISTON COVER
L	35271162	4	SCREW
М	96702287	6	SCREW
N	35833227	1	PISTON HOUSING
°P ★	35588300	1	PISTON GASKET
Q	35591122	1	VALVE PLATE
R	54425335	1	UNLOADER BODY
S ★	35278555	1	PLUG
T ★	35318914	1	PIN SPRING
U ★	35317213	1	UNLOADER PIN
V	35289057	1	PLUG
W	35278589	1	O-RING
Х	35279959	1	O-RING

UNLOADER VALVE ASSEMBLY 54436845

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
DATE/DWN BY:	DATE/DWN BY: DESCRIPTION					
6/27/00 bo	6/27/00 bd UNLOADER ASSEMBLY					
MODEL NO.	MANUAL NO.	DATE/REV:				
P-250WIR	35393966-071	6/00 A				

[★] ITEMS INCLUDED IN REPAIR KIT 35088798

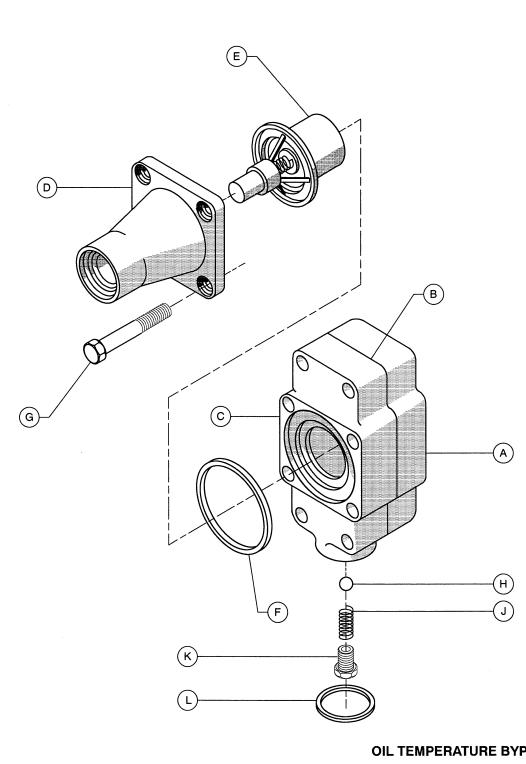


ITEM	C.P.N.	QTY	DESCRIPTION	
Α	95989695	1	ADAPTER, 1/2NPT x 12mm	
В	93481570	1	TUBE ASSEMBLY 5/16"	
С	96739701	1	ADAPTER, 1/2-20 X 1/2	
D	93481562	1	MANIFOLD, -12 X -12	
Е	96739693	1	ADAPTER, 26mm x -12	
F	35301506	1	ELBOW, SWIVEL NUT	

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DATE/DWN BY: DESCRIPTION
2/17/00 bd AIREND ASSEMBLY

MODEL NO. MANUAL NO. DATE/REV:
P-250WIR 35393966-073 2/00 A



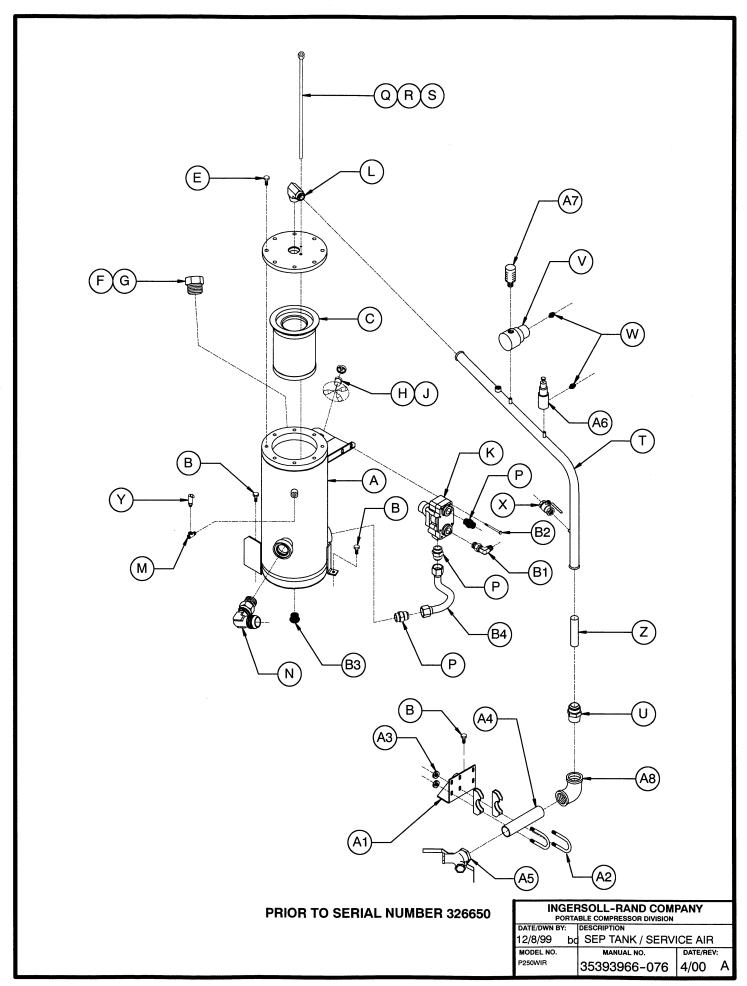
OIL TEMPERATURE BYPASS VALVE ASSEMBLY 36876787

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
DATE/DWN BY:	DATE/DWN BY: DESCRIPTION					
2/17/00 bo	2/17/00 bd OIL TEMP BYPASS VALVE					
MODEL NO.	MANUAL NO.	DATE/REV:				
P-250WIR	35393966-074	2/00 A				

ITEM	C.P.N.	QTY	DESCRIPTION	
Α	36876753	1	BODY	
В	35584242	1	GASKET	
С	36876761	1	BODY	
D	36876779	1	COVER	
Е	36782019	1	ELEMENT	
F	20A11EM231	1 1	O-RING	
G	36786382	8	SCREW	
Н	35288448	1	BALL	
J	35379940	1	SPRING	
K	36788164	1	PLUG	
L	36788172	1	SEAL	
i				

OIL TEMPERATURE BYPASS VALVE ASSEMBLY 36876787

INGERSOLL-RAND COMPANY						
PORTA	BLE COMPRESSOR DIVISION					
DATE/DWN BY: DESCRIPTION						
2/17/00 bo	2/17/00 bd OIL TEMP BYPASS VALVE					
MODEL NO.	MANUAL NO.	DATE/REV:				
P-250WIR	35393966-075	2/00 A				



ITEM		C.P.N.	QTY	DESCRIPTION
Α		54466743	1	TANK, SEPARATOR
В		35279025	6	SCREW, TAPPING M08-1.25 X 20
С		39831888	1	ELEMENT, SEPARATOR
D		~		~
Ε		36877793	8	SCREW, HEX FLANGE HD M12
F		35579630	1	PLUG 1 5/8
G		35279942	1	O-RING
Н		36891083	1	GAUGE ASSEMBLY, OIL LEVEL
J	***	36891489	1	POINTER ASSEMBLY
Κ		36876787	1	VALVE, OIL TEMPERATURE BY-PASS
L		35279777	1	ELBOW, 90 1 5/8-12
М		95944708	1	TEE, STREET NPT 1/2
N		95431292	1	ELBOW, 90∏ 1 7/8-12
Ρ		95955993	3	CONNECTOR, 1 5/16-12
Q		35329309	1	FITTING, TUBE LENZ
R		36781227	1	TUBE, SCAVENGE
s		36840437	1	VALVE, CHECK
Т		36923580	1	TUBE, SERVICE
U		95219770	1	ADAPTER 1 1/4
V	*	35322379	1	VALVE, BLOWDOWN
W		35369347	2	CONNECTOR, MALE 1/4NPT X 3/8 TUBE
Х		35324839	1	VALVE, BALL
Υ		35325224	1	VALVE, SAFETY
Z		36923928	1	NOZZLE, .453 SONIC ORIFICE
A1		36889996	1	BRACKET, SERVICE PIPE
A2		36785277	2	CLAMP, SADDLE 1 5/8
A3		95923314	4	NUT, HEX LOCK 5/16-18
A4		95916268	1	NIPPLE
A5		36881076	1	VALVE, WYE
A6	**	36854149	1	VALVE, PRESSURE REGULATOR
A7		36766756	1	ORIFICE, MUFFLER
A8		95953378	1	ELBOW, 1 1/4 NPT
A9		95916268	1	NIPPLE
B1		35291384	1	ELBOW, 90 1 5/16-12 SWIVEL NUT
B2		36854149	1	VALVE, PRESSURE REGULATOR
В3		95280541	1	PLUG, HEX 1 1/16-12
B4		36923571	1	TUBE, -12

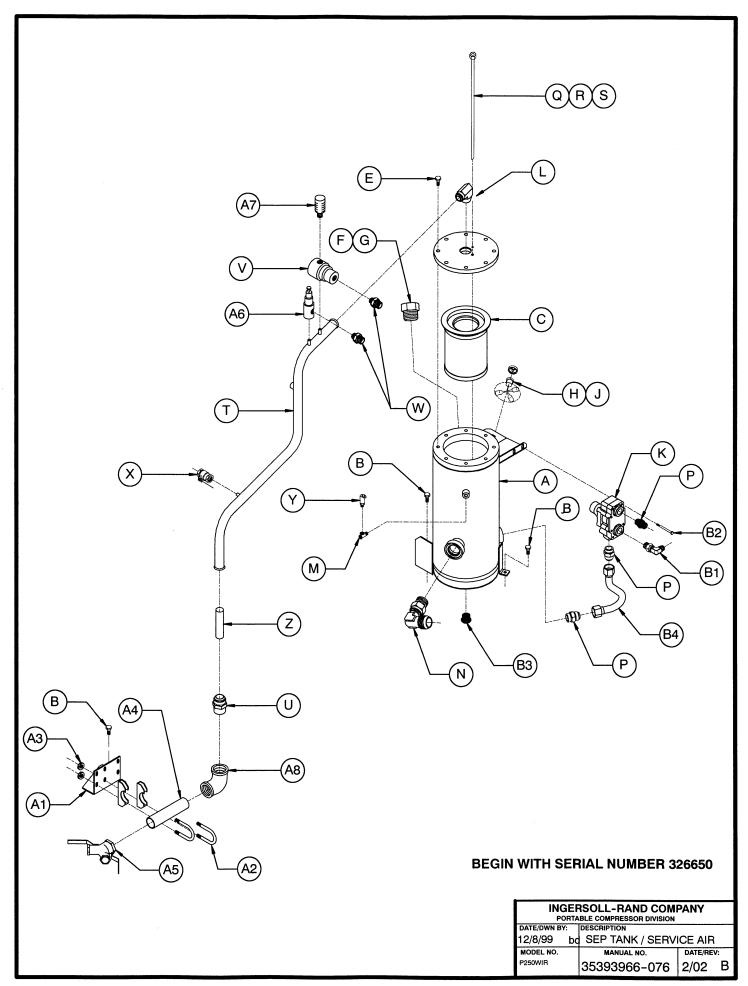
PRIOR TO SERIAL NUMBER 326650

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION							
DATE/DWN BY: DESCRIPTION							
2/17/00 bo	2/17/00 bd SEP TANK / SERVICE AIR						
MODEL NO.	MANUAL NO.	DATE/REV:					
P-250WIR	35393966-077	4/00 A					

^{* 35379064} DIAPHRAM REPAIR KIT

^{** 35387919} DIAPHRAM REPAIR KIT

^{***} INCLUDED WITH GAUGE ASSEMBLY (36891083)



ITEM		C.P.N.	QTY	DESCRIPTION
Α		54466743	1	TANK SERADATOD
В			1	TANK, SEPARATOR
C		35279025	6	SCREW, TAPPING M08-1.25 X 20
		39831888	1	ELEMENT, SEPARATOR
D		~	0	CODEW HEVELANCE HD M40
E F		36877793	8	SCREW, HEX FLANGE HD M12
		35579630	1	PLUG 1 5/8
G		35279942	1	O-RING
H	+**	36891083	l 4	GAUGE ASSEMBLY, OIL LEVEL
J	***	36891489	1	POINTER ASSEMBLY
K		36876787	1	VALVE, OIL TEMPERATURE BY-PASS
L		35279777	1	ELBOW, 90 1 5/8-12
M		95944708	1	TEE, STREET NPT 1/2
N		95431292	1	ELBOW, 90 1 7/8-12
. P		95955993	3	CONNECTOR, 1 5/16-12
Q		35329309	1	FITTING, TUBE LENZ
R		36781227	1	TUBE, SCAVENGE
S		36840437	1	VALVE, CHECK
Т		54727383	. 1	TUBE, SERVICE
U		95219770	1	ADAPTER 1 1/4
V	*	35322379	1	VALVE, BLOWDOWN
W		35369347	2	CONNECTOR, MALE 1/4NPT X 3/8 TUBE
Х		35324839	1	VALVE, BALL
Υ		35325224	1	VALVE, SAFETY
Z		36923928	1	NOZZLE, .453 SONIC ORIFICE
A1		36889996	1	BRACKET, SERVICE PIPE
A2		36785277	2	CLAMP, SADDLE 1 5/8
A3		95923314	4	NUT, HEX LOCK 5/16-18
A4		95916268	1	NIPPLE
A5		36881076	1	VALVE, WYE
A6	**	36854149	1	VALVE, PRESSURE REGULATOR
A7		36766756	1	ORIFICE, MUFFLER
A8		95953378	1	ELBOW, 1 1/4 NPT
A9		95916268	1	NIPPLE
B1		35291384	1	ELBOW, 90 1 5/16-12 SWIVEL NUT
B2		36854149	1	VALVE, PRESSURE REGULATOR
B3		95280541	1	PLUG, HEX 1 1/16-12
B4		36923571	1	TUBE, -12
		000000	-	. 552, 12

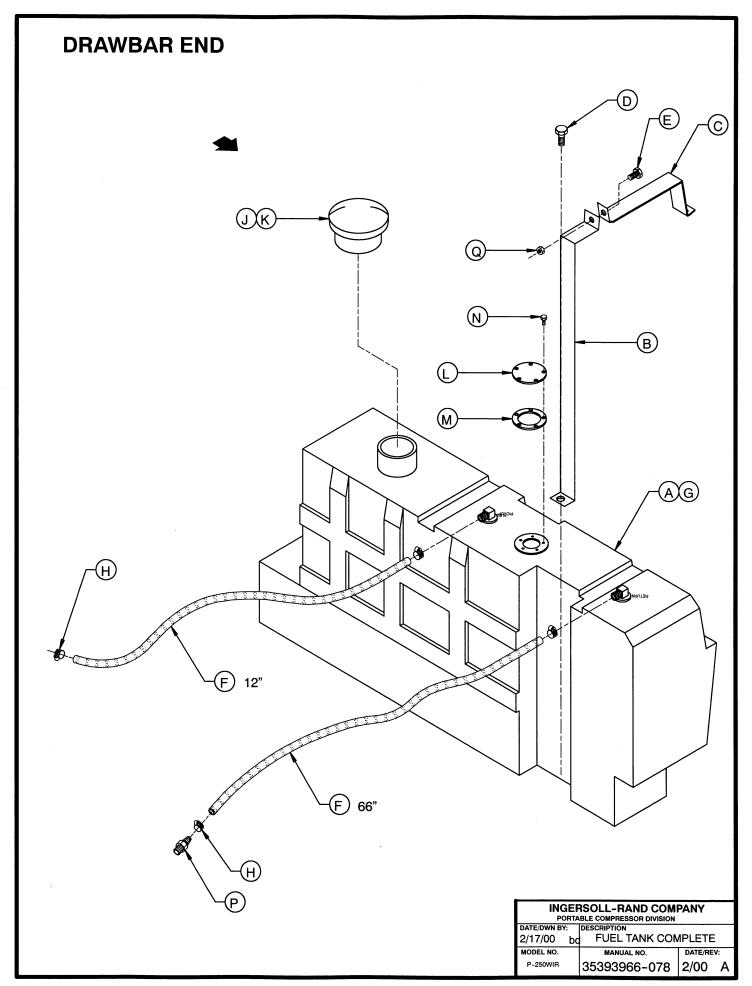
BEGIN WITH SERIAL NUMBER 326650

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
DATE/DWN BY:	DATE/DWN BY: DESCRIPTION					
2/17/00 bo	2/17/00 bd SEP TANK / SERVICE AIR					
MODEL NO.	MODEL NO. MANUAL NO. DATE/REV:					
P-250WIR	35393966-077	2/02	В			

^{* 35379064} DIAPHRAM REPAIR KIT

^{** 35387919} DIAPHRAM REPAIR KIT

^{***} INCLUDED WITH GAUGE ASSEMBLY (36891083)

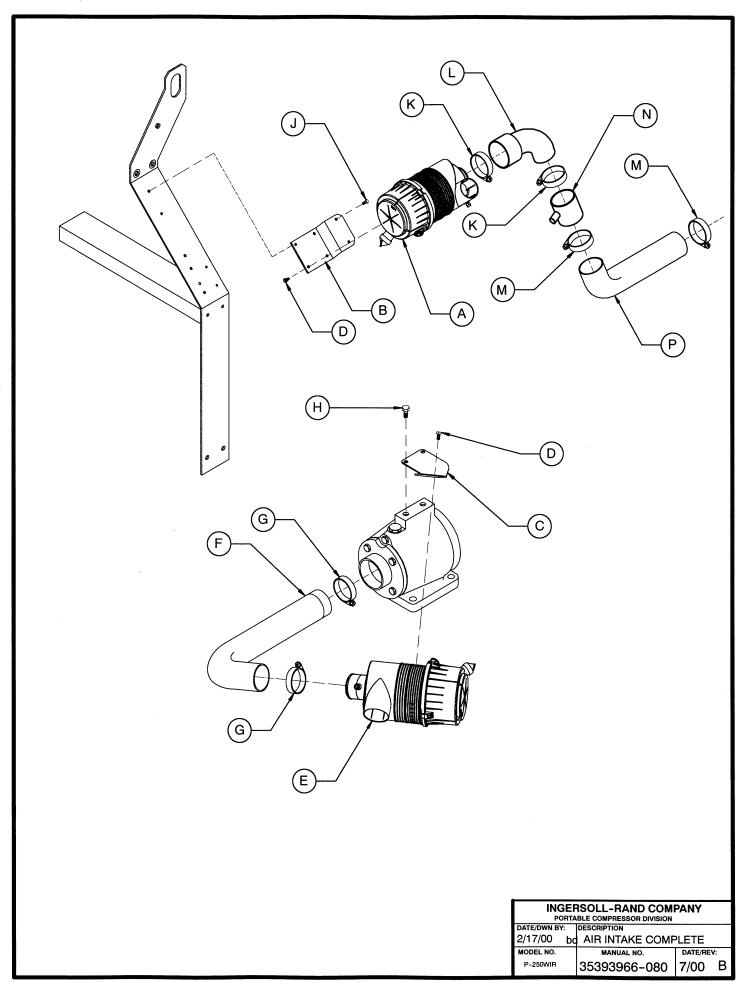


ITEM	C.P.N.	QTY	DESCRIPTION
Α	369228	13 1	TANK, FUEL
В	368842	52 1	STRAP, HOLD DOWN INTERIOR
С	368842	.45 1	STRAP, HOLD DOWN EXTERIOR
D	352790	25 1	SCREW, TAPPING M08-125 x 20
Е	3527117	70 1	SCREW, TAPPING M08-125 x 40
F	353634	.98 *	HOSE, 5/16 FUEL
G	** 353845	77 2	BUSHING
Н	352963	42 4	CLAMP, WORM GEAR
J	368855	64 1	CAP, FUEL
K	363851 ⁻	11 1	GASKET, FUEL CAP
L	367928	28 1	COVER, FUEL SENDER
М	353618	49 1	GASKET, FUEL SENDER
N	959165	32 5	SCREW, FILLISTER HEAD 10-32 X 1/2
Р	368959	77 1	REDUCER
Q	352785	30 1	NUT, HEX NYLOCK M08

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION					
DATE/DWN BY: DESCRIPTION					
2/17/00 bd FUEL TANK COMPLETE					
MODEL NO.		MANUAL NO.	DATE/RE	V:	
P-250WIR		35393966-079	2/00	Α	

^{*} SEE ILLUSTRATION FOR LENGTH

^{**} INCLUDED WITH TANK

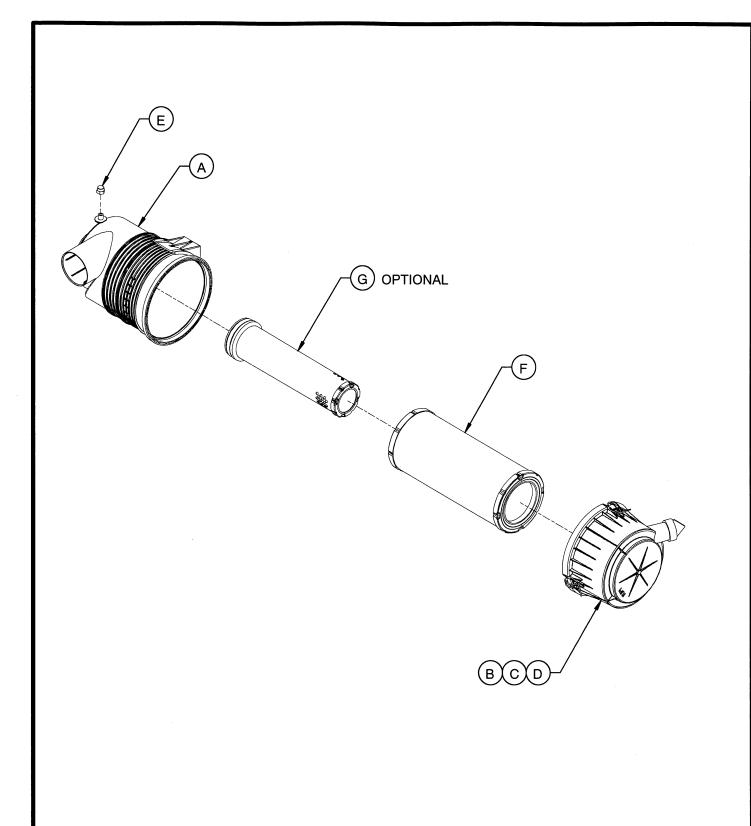


ITEM	C.P.N.	QTY	DESCRIPTION	
Α	36897999	1	CLEANER, ENGINE AIR	1
В	36880805	1	BRACKET, AIR CLEANER	
С	54412978	1	BRACKET, AIR FILTER	{PRIOR TO S/N 312671}
i	54467238	1	BRACKET, AIR FILTER	{BEGIN WITH S/N 312671}
D	96702048	6	SCREW, TAPPING M08-125 x 16	
Е	54407226	1	CLEANER, A/E AIR	{PRIOR TO S/N 312671}
i	54471826	1	CLEANER, A/E AIR	{BEGIN WITH S/N 312671}
F	54412960	1	ELBOW, 45 RUBBER	{PRIOR TO S/N 312671}
l	54465950	1	HOSE, AIR INTAKE	{BEGIN WITH S/N 312671}
G	35165802	2	CLAMP, 4" T-BOLT	
Н	36879492	2	SCREW, HEX FLANGE HEAD M12-1.75 X 25	
J	35279025	2	SCREW, TAPPING M08-1.25 X 20	
K	35374073	2	CLAMP, 3.62 T-BOLT	
L	54398409	1	HOSE, AIR INLET	{PRIOR TO S/N 312370}
1	54523121	1	ELBOW, RUBBER	{BEGIN WITH S/N 312370}
М	35295773	2	CLAMP, 2.56 T-BOLT	(
N	54523154	1	CONNECTOR, AIR INTAKE	{BEGIN WITH S/N 312370}
Р	54523139	1	ELBOW, RUBBER	{BEGIN WITH S/N 312370}

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DATE/DWN BY: DESCRIPTION
2/17/00 bd AIR INTAKE COMPLETE

MODEL NO. MANUAL NO. DATE/REV:
P-250WIR 35393966-081 7/00 B



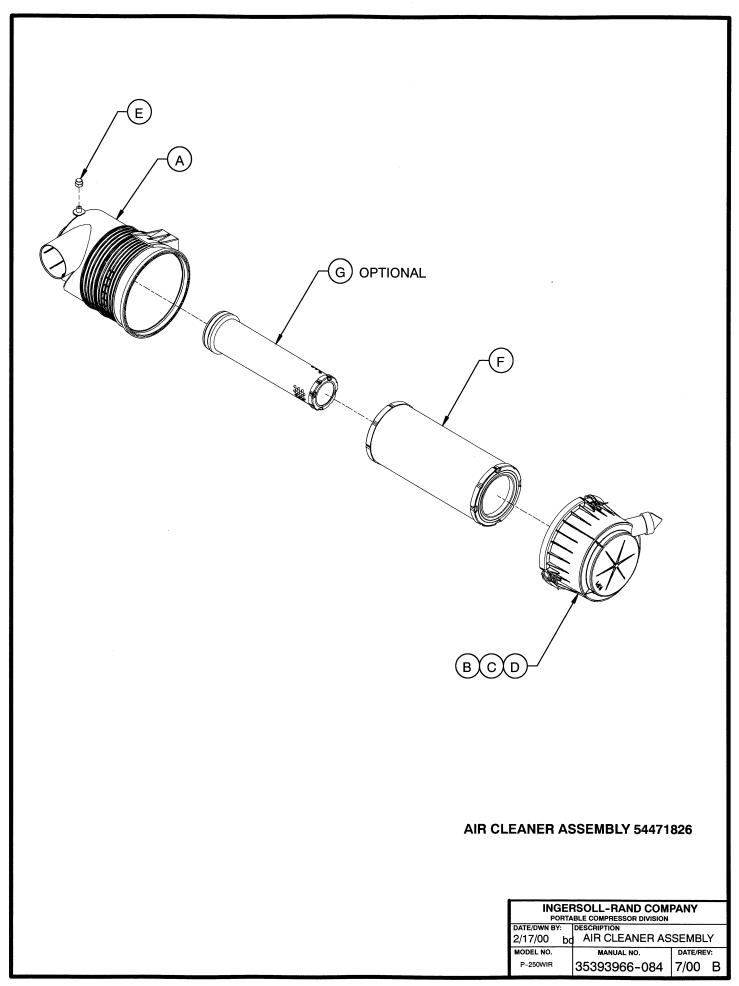
AIR CLEANER ASSEMBLY 36897999

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION								
DATE/DWN BY:	DATE/DWN BY: DESCRIPTION							
2/17/00 bd AIR CLEANER ASSEMBLY								
MODEL NO.	MANUAL NO. DATE/REY							
P-250WIR	35393966-082	2/00	Α					

ITEM	C.P.N.	QTY	DESCRIPTION
Α	35393701	1	BODY, AIR CLEANER
В	35393693	1	COVER, AIR CLEANER
С	35393669	3	CLIP, RETAINING
D	35393677	1	VALVE, DUST EJECTOR
Е	35393719	1	PLUG, CAP
F	35393685	1	ELEMENT, PRIMARY
G	35393651	1	SAFETY ELEMENT (OPTION)

AIR CLEANER ASSEMBLY 36897999

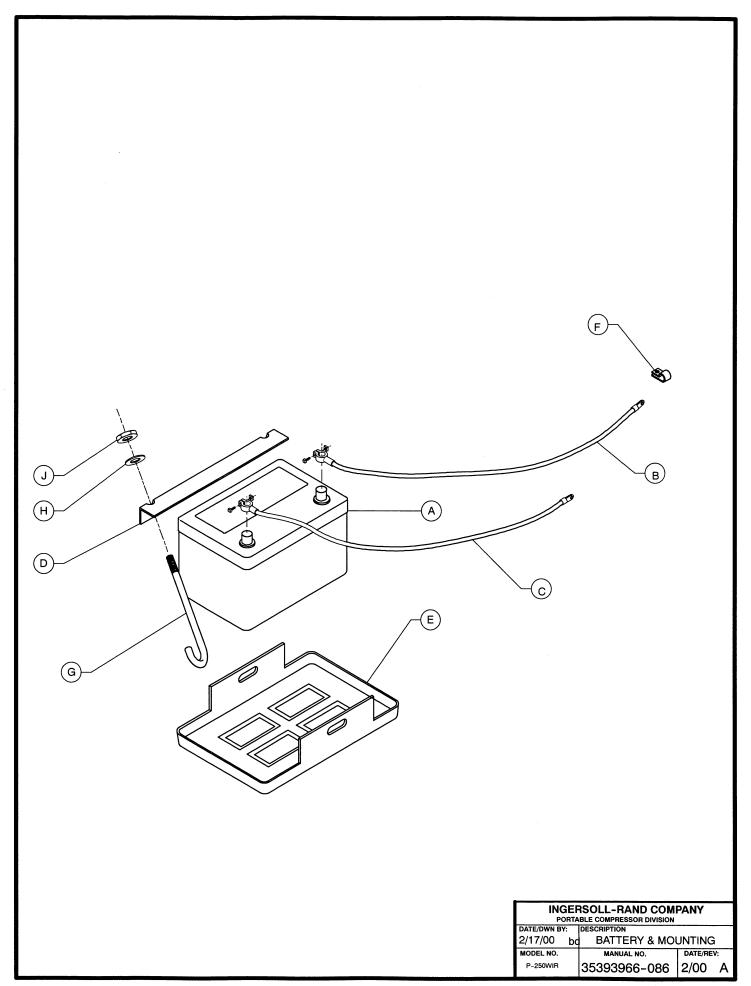
INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION							
DATE/DWN BY: DESCRIPTION							
2/17/00 bd AIR CLEANER ASSEMBLY							
MODEL NO.	MANUAL NO. DATE/REV:						
P-250WIR	35393966-083	2/00 A					



ITEM	C.P.N.	QT	Y DESCRIPTION	
Α	54415385	1	BODY, AIR CLEANER	{PRIOR TO S/N 312671}
	54479811	1	BODY, AIR CLEANER	{BEGIN WITH S/N 312671}
В	54415393	1	COVER, AIR CLEANER	•
С	35393669	3	CLIP, RETAINING	
D	35393677	1	VALVE, DUST EJECTOR	
Ε	54479803	1	PLUG, CAP	{PRIOR TO S/N 312671}
	35393719	1	PLUG, CAP	{BEGIN WITH S/N 312671}
F	54415377	1	ELEMENT, PRIMARY	{PRIOR TO S/N 312671}
	54471834	1	ELEMENT, PRIMARY	{BEGIN WITH S/N 312671}
G	54464706	1	SAFETY ELEMENT (OPTION)	{PRIOR TO S/N 312671}
	54471842	1	SAFETY ELEMENT (OPTION)	{BEGIN WITH S/N 312671}

AIR CLEANER ASSEMBLY 54471826

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION								
DATE/DWN BY: DESCRIPTION 2/17/00 bd AIR CLEANER ASSEMBLY								
MODEL NO.	MANUAL NO. DATE/REV:							
P-250WIR	35393966-085	7/00	В					

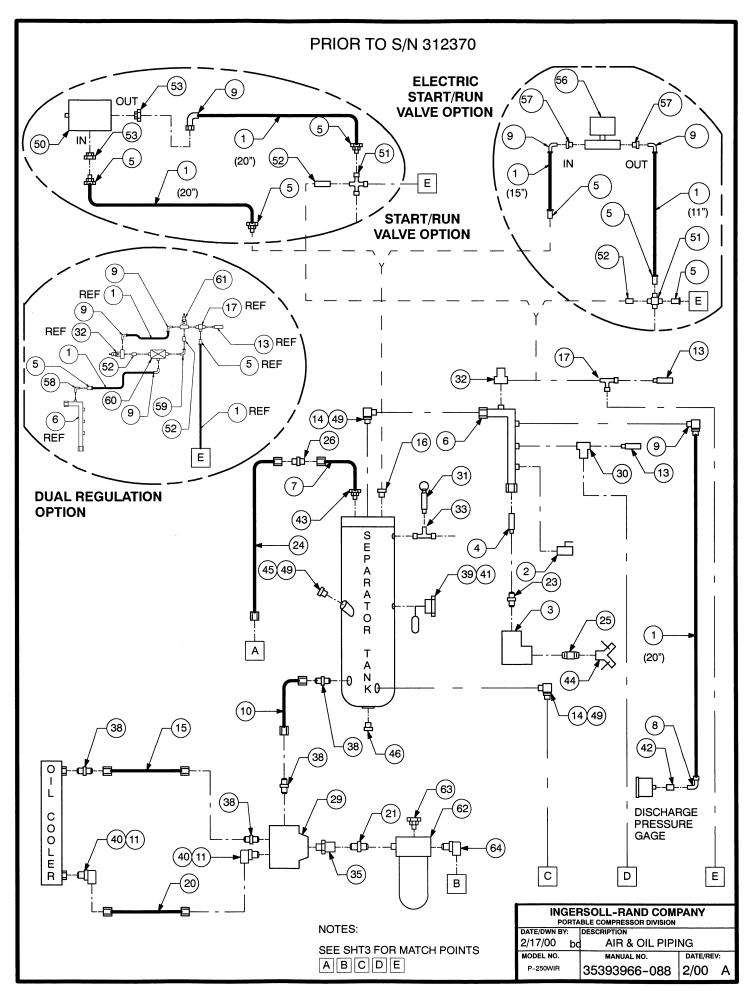


ITEM	C.P.N.	QTY	DESCRIPTION
		_	
Α	36844264	1	BATTERY
В	36793747	1	CABLE, POSITIBE BATTERY
С	35582402	1	CABLE, NEGATIVE BATTERY
D	36853257	1	ANGLE
Е	36878064	1	TRAY, BATTERY
F	35225093	2	CLAMP, 1/2" SUPPORT
G	36853240	2	J-BOLT
Н	36853265	2	WASHER, PLASTIC
J	35144492	2	NUT, LOCK 1/4-20

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DATE/DWN BY: DESCRIPTION
2/17/00 bd BATTERY & MOUNTING

MODEL NO. MANUAL NO. DATE/REV:
P-250WIR 35393966-087 2/00 A

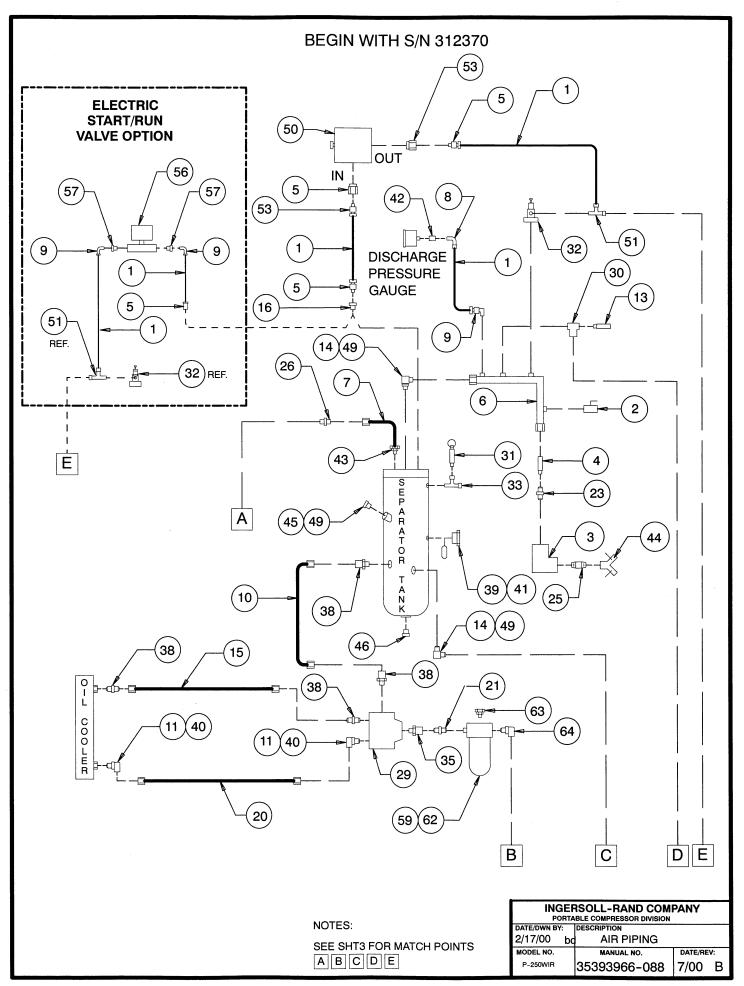


IT	EM C.P.N.	DESCRIPTION	ITEM	C.P.N.	DESCRIPTION

1	35356484	TUBING	34		
2	35324839	BALL VALVE	35	552A105073P	P ELBOW, 90[] 1 1/16-12
3	95953378	ELBOW, 90[] 1 1/4NPT	36		
4	36923928	NOZZLE, SONIC	37		
5	35369347	CONNECTOR, STREET	38	95955993	STRAIGHT CONNECTOR
6	36923580	SERVICE TUBE	39	36891083	INDICATOR, OIL LEVEL
7	36781227	SCAVENGE TUBE	40	35291384	ELBOW, 90[] 1 5/16-16
8	35370386	ELBOW, 90[] 1/8NPT X 3/8	41	36891489	ASSEMBLY, POINTER
9	35369354	ELBOW, 90[] 1/4NPT X 3/8	42	95930319	COUPLING
10	36923571	HOSE ASSEMBLY	43	35329309	LENZ FITTING
11	35280528	O-RING	44	36881076	WYE VALVE
12			45	35579630	PLUG
13	36766756	MUFFLER, .140 ORIFICE	46	95280541	PLUG
14	35279777	ELBOW, 90[] 1 5/8-12	47		
15	36923555	TUBE ASSEMBLY	48		
16	95928230	PLUG, 1/4NPT	49	35279942	O-RING
17	35114545	TEE, STREET 1/4NPT	50	36783439	VALVE, 2-WAY START/RUN
18			51	95954293	CROSS, 1/4NPT
19			52	95667341	NIPPLE,1/4NPT X .88
20	35132877	HOSE ASSEMBLY	53	35302314	ADAPTER, 9/16-18
21	550A105060P	UNION	54		
22	35283464	ELBOW, 90∏ 1/4NPT X -4	55		
23	95219770	ST CONNECTOR 1 1/4-12	56	36843142	VALVE, SOLENOID 12V
24	35283258	HOSE ASSEMBLY	57	95940748	BUSHING, REDUCING 3/8 - 1/4
25	95916268	NIPPLE	58	95954095	ELBOW, 90[] .25 NPT
26	36840437	ORIFICE/CHECK VALVE	59	95944666	ELBOW, 90[] STREET .25 NPT
27			60	36864684	VALVE, 3-WAY .25 NPT
28			61	35359090	VALVE, PRESS REG 150 PSI
29	36876787	VALVE, BYPASS	62	36897387	OIL FILTER ASSEMBLY
30	35322379	VALVE, BLOWDOWN	63	95938205	PLUG
31	35325224	VALVE, SAFETY	64	35294750	ELBOW, 90∏ 1 1/16-12
32	36854149	VALVE, PRESS REG	65		
33	95944708	STREET TEE	66		

PRIOR TO S/N 312370

1	<u> </u>								
	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION								
ı	DATE/DWN BY: DESCRIPTION								
ı	2/17/00 bd AIR & OIL PIPING								
1	MODEL NO.		MANUAL NO.	DATE/RE	V:				
	P-250WIR		35393966-089	2/00	Α				



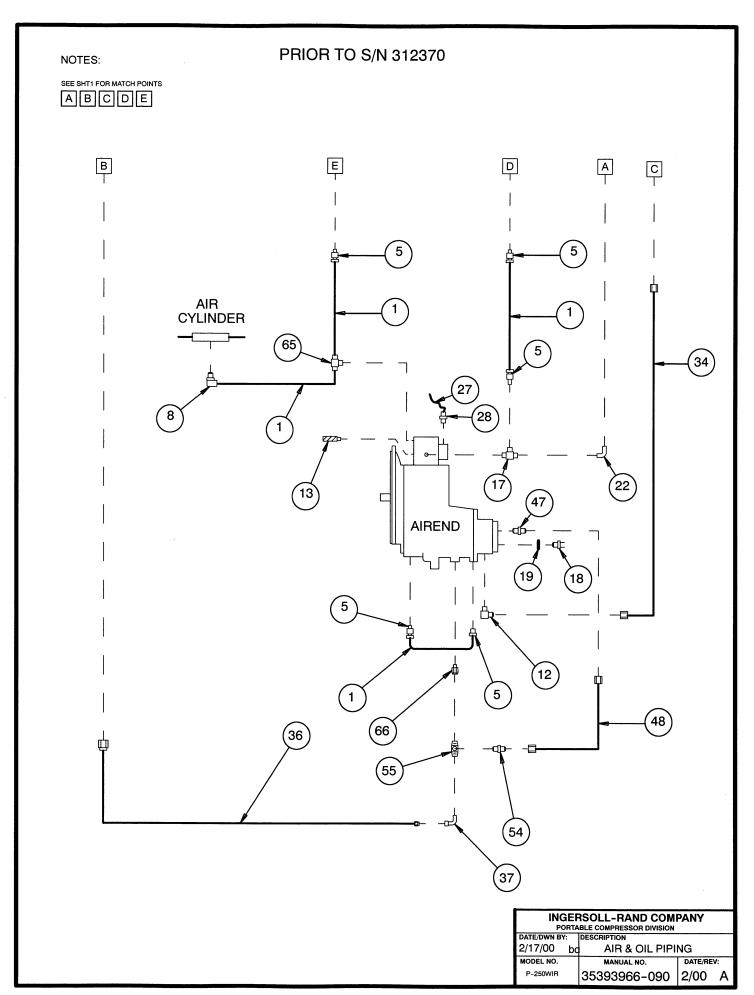
IT	EM C.P.N.	DESCRIPTION	ITEM	C.P.N.	DESCRIPTION
1	35356484	TUBING	0.4		
2	35324839	BALL VALVE	34 35	EE0A10E072D	ELBOW, 90∏ 1 1/16-12
3	95953378	ELBOW, 90 1 1/4NPT	36	552A105075F	ELBOW, 90[] 1 1/10-12
4	36923928	NOZZLE, SONIC	37		
5	35369347	CONNECTOR, STREET	38	95955993	STRAIGHT CONNECTOR
6	36923580	SERVICE TUBE PRIOR TO SN 326650	39	36891083	STRAIGHT CONNECTOR
	54727383	SERVICE TUBE BEGIN WITH SN 32665		35291384	INDICATOR, OIL LEVEL
7	36781227	SCAVENGE TUBE SCAVENGE TUBE	41	36891489	ELBOW, 90[] 1 5/16-16 ASSEMBLY, POINTER
8	35370386	ELBOW, 90 1/8NPT X 3/8	42	95930319	·
9	35369354	ELBOW, 90 1/4NPT X 3/8	43	35329309	COUPLING
10	36923571	HOSE ASSEMBLY	43	36881076	LENZ FITTING WYE VALVE
11	35280528	O-RING	45	35579630	PLUG
12	00200020	0-111140	46	95280541	PLUG
13	36766756	MUFFLER, .140 ORIFICE	47	93200341	FLOG
14	35279777	ELBOW, 90 1 5/8-12	48		
15	36923555	TUBE ASSEMBLY	49	35279942	O-RING
16	95928230	PLUG, 1/4NPT	50	36783439	VALVE, 2-WAY START/RUN
17	00020200	1 200, 1, 1111 1	51	35369503	TEE, 1/4NPT
18			52	00000000	122, 1/4141
19			53	35302314	ADAPTER, 9/16-18
20	35132877	HOSE ASSEMBLY	54	00002014	ABAI TER, 9/10-10
21	550A105060P	UNION	55		
22	35283464	ELBOW, 90∏ 1/4NPT X -4	56	36843142	VALVE, SOLENOID 12V
23	95219770	ST CONNECTOR 1 1/4-12	57	95940748	BUSHING, REDUCING 3/8 - 1/4
24	35283258	HOSE ASSEMBLY	58		
25	95916268	NIPPLE	59	36897353	ELEMENT, A/E OIL FILTER
26	36840437	ORIFICE/CHECK VALVE	60		
27			61		
28			62	36897387	OIL FILTER ASSEMBLY
29	36876787	VALVE, BYPASS	63	95938205	PLUG
* 30	35322379	VALVE, BLOWDOWN	64	35294750	ELBOW, 90 1 1/16-12
31	35325224	VALVE, SAFETY	65		_
** 32	36854149	VALVE, PRESS REG	66		
33	95944708	STREET TEE			
		•			

^{* 35379064} BLOWDOWN VALVE REPAIR KIT

BEGIN WITH S/N 312370

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION								
DATE/DWN BY: DESCRIPTION								
2/17/00 bd AIR PIPING								
MODEL NO.	MODEL NO. MANUAL NO. DATE/REV:							
P-250WIR 35393966-089 2/02 C								

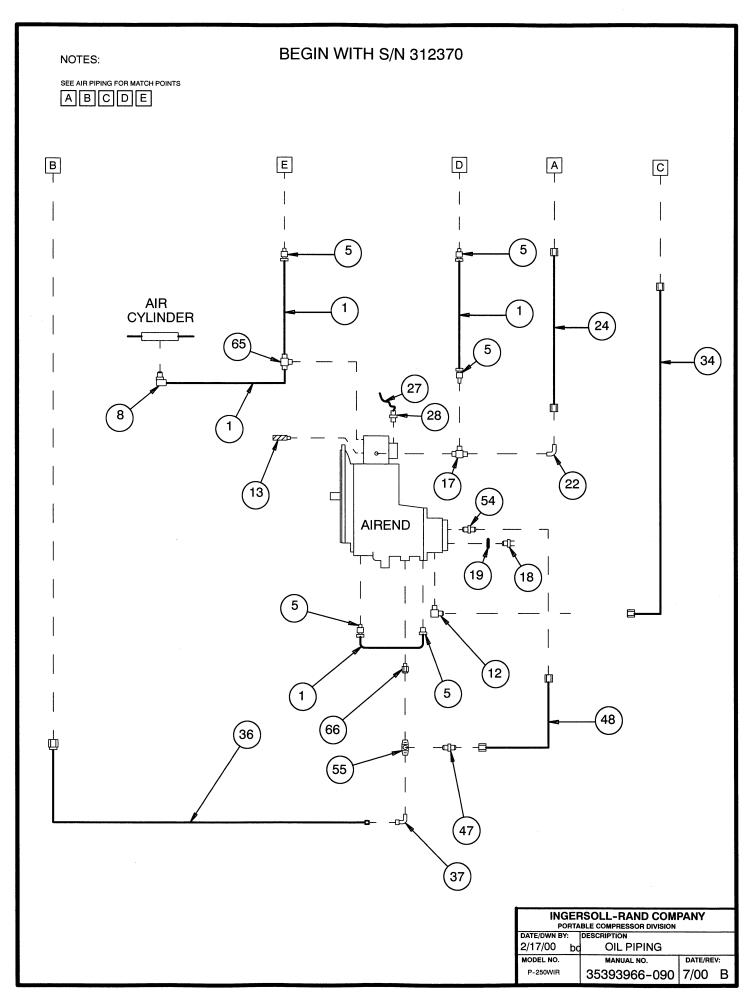
^{** 35387919} DIAPHRAGM REPAIR KIT



IT	TEM C.P.N.	DESCRIPTION	ITEM	C.P.N.	DESCRIPTION
1	35356484	TUBING	34	35246438	HOSE ASSEMBLY
2	00000404	TODING	3 4 35	30240 4 00	HUSE ASSEIVIBLY
3			36	35323864	HOSE ASSEMBLY
4			37	35301506	ELBOW, SWIVEL NUT
5	35369347	CONNECTOR, STREET	38	0000,000	ELBOVV, GVVIVEE NOT
6	••••		39		
7			40		
8	35370386	ELBOW, 90□ 1/8NPT X 3/8	41		
9			42		
10			43		
11			44		
12	95431292	ELBOW, 90[] 1 7/8-12	45		
13	36766756	MUFFLER, .140 ORIFICE	46		
14			47	95989695	ADAPTER 1/2-20 X 1/2NPT
15			48	93481570	TUBE ASSEMBLY
16			49		
17	35114545	TEE, STREET 1/4NPT	50		
18	35596436	SWITCH, TEMP SHUTDOWN	51		
19	39404165	O-RING	52		
20			53		
21			54	96739701	ADAPTER 1/2-20 X 1/2NPT
22			55	93481562	MANIFOLD
23			56		
24			57		
25			58		
26			59		
27	35282292	TUBING TYGON	60		
28	35316587	ADAPTER BARBED	61		
29			62		
30			63		
31			64		
32 33			65	36840437	TEE 1/4NPT to 3/8
33			66	96739693	ADAPTER 26mm X -12
1					

PRIOR TO S/N 312370

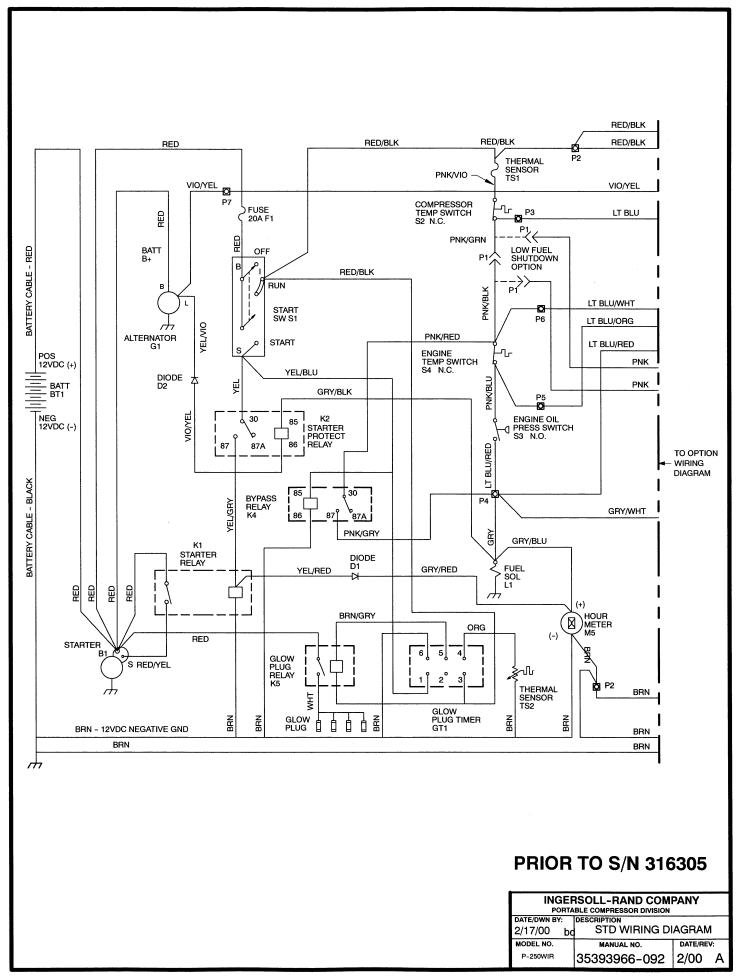
	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
ı	DATE/DWN BY	:	DESCRIPTION				
	2/17/00	bo	AIR & OIL PIPI	NG			
ı	MODEL NO.		MANUAL NO.	DATE/RE	V:		
	P-250WIR		35393966-091	2/00	Α		



IT	EM C.P.N.	DESCRIPTION	ITEM	C.P.N.	DESCRIPTION
1	35356484	TUBING	34	35246438	HOSE ASSEMBLY
2	00000404	TOBING	35	33240430	HOSE ASSEMBLY
3			36	35323864	HOSE ASSEMBLY
4			37	35301506	ELBOW, SWIVEL NUT
5	35369347	CONNECTOR, STREET	38	33301300	ELBOW, SWIVEL NOT
6	00000047	CONTROL OF THE PARTY OF THE PAR	39		
7			40		
8	35370386	ELBOW, 90∏ 1/8NPT X 3/8	41		
9		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	42		
10			43		
11			44		
12	95431292	ELBOW, 90 17/8-12	45		
13	36766756	MUFFLER, .140 ORIFICE	46		
14			47	95989695	ADAPTER 1/2-20 X 1/2NPT
15			48	93481570	TUBE ASSEMBLY
16			49		
17	35114545	TEE, STREET 1/4NPT	50		
18	35596436	SWITCH, TEMP SHUTDOWN	51		
19	39404165	O-RING	52		
20			53		
21			54	96739701	ADAPTER 1/2-20 X 1/2NPT
22			55	93481562	MANIFOLD
23			56		
24			57		
25			58		
26			59		
27	35282292	TUBING TYGON	60		
28	35316587	ADAPTER BARBED	61		
29			62		
30			63		
31 32			64	05070070	TEE 1/4NDT to 2/0
33			65 66	35373976	TEE 1/4NPT to 3/8
			66	96739693	ADAPTER 26mm X -12

BEGIN WITH S/N 312370

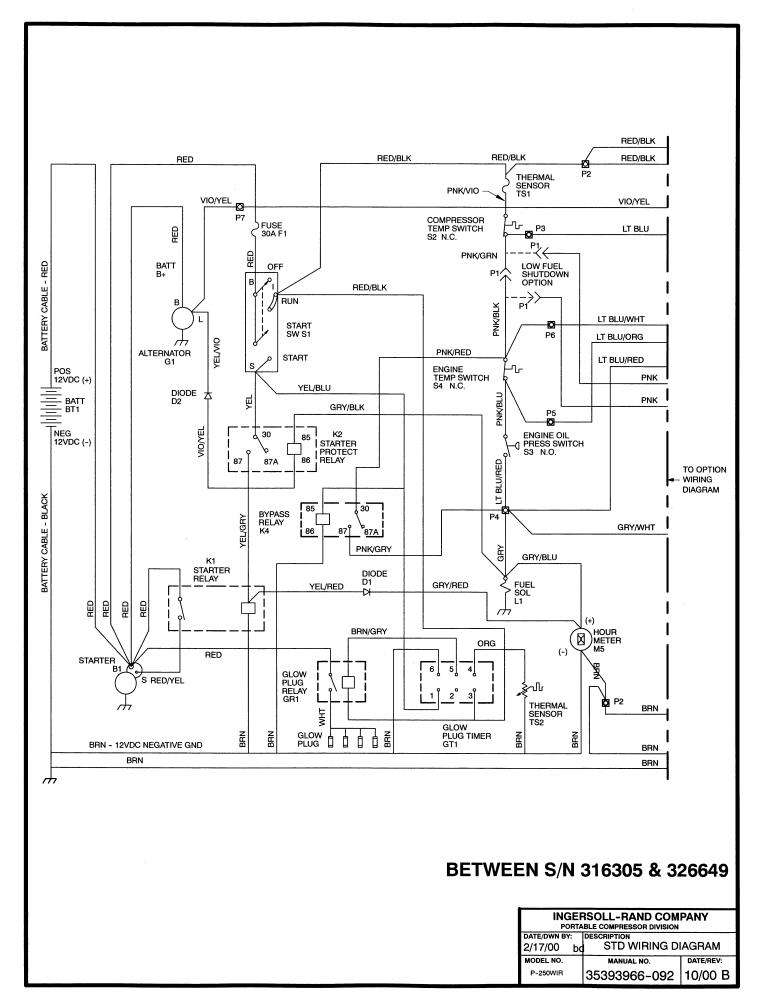
	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
ı	DATE/DWN BY:	DESCRIPTION					
ı	2/17/00 b	OIL PIPING					
ı	MODEL NO.	MANUAL NO.	DATE/REV:				
	P-250WIR	35393966-091	7/00 B				



ITEM	C.P.N.	DESCRIPTION
B1	54386016	STARTER
BT1	36844264	BATTERY, 12 V
D1	35376169	DIODE
D2	35376169	DIODE
F1	36792083	FUSE, 20A
G1	54385794	ALTERNATOR
GT1	54385828	TIMER, GLOW PLUG
K1	36856250	RELAY, STARTER
K2	36878361	RELAY, SHUT-DOAWN
K4	36878361	RELAY, BYPASS
K5	36856250	RELAY, GLOW PLUG
L1	54385992	SOLENOID, FUEL
M5	36879880	HOURMETER
S1	36884211	SWITCH, START
S2	35596436	SWITCH, COMPRESSOR TEMPERATUR
S3	36878379	SWITCH, ENGINE OIL
S4	36880706	SWITCH, ENGINE TEMPERATURE
TS1	36865756	SENSOR, THERMAL
TS2	54385901	SENSOR, THERMAL
W1	54418959	HARNESS, ENGINE
ı		

PRIOR TO S/N 316305

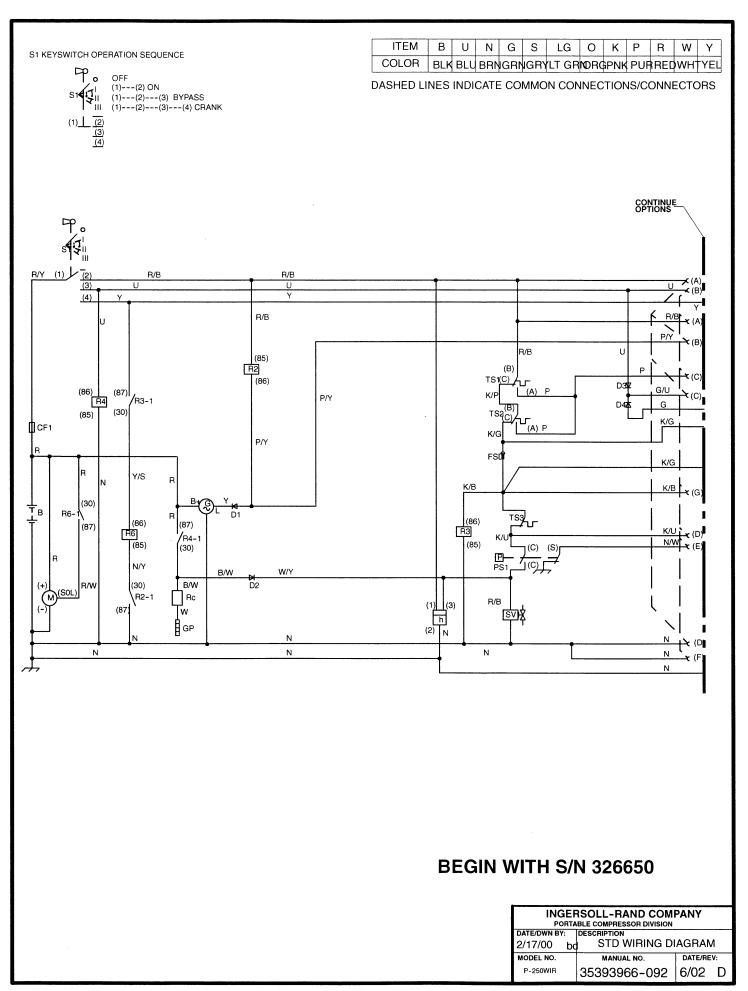
	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DATE/DWN BY: 2/17/00 bo		DESCRIPTION STD WIRING DI	AGRAM		
ı	MODEL NO.	MANUAL NO.	DATE/REV:		
	P-250WIR	35393966-093	2/00 A		



ITEM	C.P.N.	DESCRIPTION
B1	54386016	STARTER
BT1	36844264	BATTERY, 12 V
D1	35376169	DIODE
D2	35376169	DIODE
F1	36786259	FUSE, 30A
G1	54385794	ALTERNATOR
GR1	36856250	RELAY, GLOW PLUG
GT1	54385828	TIMER, GLOW PLUG
K1	36856250	RELAY, STARTER
K2	54368048	RELAY, SHUT-DOAWN
K4	54368048	RELAY, BYPASS
L1	54385992	SOLENOID, FUEL
M5	36879880	HOURMETER
S1	36884211	SWITCH, START
S2	35596436	SWITCH, COMPRESSOR TEMPERATUR
S3	36878379	SWITCH, ENGINE OIL
S4	36880706	SWITCH, ENGINE TEMPERATURE
TS1	36865756	SENSOR, THERMAL
TS2	54385901	SENSOR, THERMAL
W1	54418959	HARNESS, ENGINE
i		

BETWEEN S/N 316305 & 326649

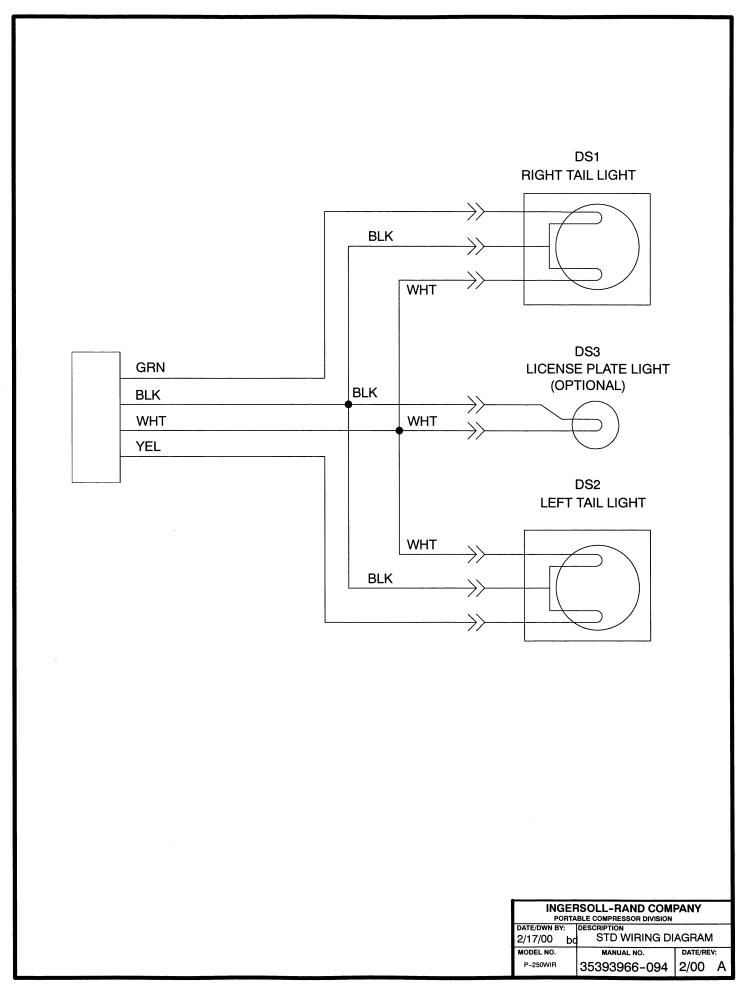
1	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
	DATE/DWN BY: 2/17/00 b	DESCRIPTION STD WIRING DI	AGRAM		
Ì	MODEL NO.	MANUAL NO.	DATE/REV:		
	P-250WIR	35393966-093	10/00 B		



B 36844264 1 BATTERY CF1 36792083 1 FUSE, 20A D1 35676169 1 DIODE D2 35676169 1 DIODE D3 35676169 1 DIODE D4 35676169 1 DIODE G 54747571 1 ALTERNATOR GP 54385893 4 PLUG, GLOW H 54766704 1 HOURMETER M 54747563 1 STARTER PS1 54747935 1 SWITCH, ENGINE OIL PRESSURE Rc 49841836 1 RESISTOR, CONTROL (GLOW PLUGS) R2 54368048 1 RELAY, START INHIBIT R4 54368048 1 RELAY, START INHIBIT R4 54368048 1 RELAY, GLOW PLUG	
CF1 36792083 1 FUSE, 20A D1 35676169 1 DIODE D2 35676169 1 DIODE D3 35676169 1 DIODE D4 35676169 1 DIODE G 54747571 1 ALTERNATOR GP 54385893 4 PLUG, GLOW H 54766704 1 HOURMETER M 54747563 1 STARTER PS1 54747935 1 SWITCH, ENGINE OIL PRESSURE Rc 49841836 1 RESISTOR, CONTROL (GLOW PLUGS) R2 54368048 1 RELAY, START INHIBIT R4 54368048 1 RELAY, GLOW PLUG	
D1 35676169 1 DIODE D2 35676169 1 DIODE D3 35676169 1 DIODE D4 35676169 1 DIODE G 54747571 1 ALTERNATOR GP 54385893 4 PLUG, GLOW H 54766704 1 HOURMETER M 54747563 1 STARTER PS1 54747935 1 SWITCH, ENGINE OIL PRESSURE Rc 49841836 1 RESISTOR, CONTROL (GLOW PLUGS) R2 54368048 1 RELAY, START INHIBIT R4 54368048 1 RELAY, GLOW PLUG	
D2 35676169 1 DIODE D3 35676169 1 DIODE D4 35676169 1 DIODE G 54747571 1 ALTERNATOR GP 54385893 4 PLUG, GLOW H 54766704 1 HOURMETER M 54747563 1 STARTER PS1 54747935 1 SWITCH, ENGINE OIL PRESSURE Rc 49841836 1 RESISTOR, CONTROL (GLOW PLUGS) R2 54368048 1 RELAY, START PROTECT R3 54368048 1 RELAY, START INHIBIT R4 54368048 1 RELAY, GLOW PLUG	
D3 35676169 1 DIODE D4 35676169 1 DIODE G 54747571 1 ALTERNATOR GP 54385893 4 PLUG, GLOW H 54766704 1 HOURMETER M 54747563 1 STARTER PS1 54747935 1 SWITCH, ENGINE OIL PRESSURE Rc 49841836 1 RESISTOR, CONTROL (GLOW PLUGS) R2 54368048 1 RELAY, START PROTECT R3 54368048 1 RELAY, START INHIBIT R4 54368048 1 RELAY, GLOW PLUG	
D4 35676169 1 DIODE G 54747571 1 ALTERNATOR GP 54385893 4 PLUG, GLOW H 54766704 1 HOURMETER M 54747563 1 STARTER PS1 54747935 1 SWITCH, ENGINE OIL PRESSURE Rc 49841836 1 RESISTOR, CONTROL (GLOW PLUGS) R2 54368048 1 RELAY, START PROTECT R3 54368048 1 RELAY, START INHIBIT R4 54368048 1 RELAY, GLOW PLUG	
G 54747571 1 ALTERNATOR GP 54385893 4 PLUG, GLOW H 54766704 1 HOURMETER M 54747563 1 STARTER PS1 54747935 1 SWITCH, ENGINE OIL PRESSURE Rc 49841836 1 RESISTOR, CONTROL (GLOW PLUGS) R2 54368048 1 RELAY, START PROTECT R3 54368048 1 RELAY, START INHIBIT R4 54368048 1 RELAY, GLOW PLUG	
GP 54385893 4 PLUG, GLOW H 54766704 1 HOURMETER M 54747563 1 STARTER PS1 54747935 1 SWITCH, ENGINE OIL PRESSURE Rc 49841836 1 RESISTOR, CONTROL (GLOW PLUGS) R2 54368048 1 RELAY, START PROTECT R3 54368048 1 RELAY, START INHIBIT R4 54368048 1 RELAY, GLOW PLUG	
H 54766704 1 HOURMETER M 54747563 1 STARTER PS1 54747935 1 SWITCH, ENGINE OIL PRESSURE Rc 49841836 1 RESISTOR, CONTROL (GLOW PLUGS) R2 54368048 1 RELAY, START PROTECT R3 54368048 1 RELAY, START INHIBIT R4 54368048 1 RELAY, GLOW PLUG	
M 54747563 1 STARTER PS1 54747935 1 SWITCH, ENGINE OIL PRESSURE Rc 49841836 1 RESISTOR, CONTROL (GLOW PLUGS) R2 54368048 1 RELAY, START PROTECT R3 54368048 1 RELAY, START INHIBIT R4 54368048 1 RELAY, GLOW PLUG	
PS1 54747935 1 SWITCH, ENGINE OIL PRESSURE Rc 49841836 1 RESISTOR, CONTROL (GLOW PLUGS) R2 54368048 1 RELAY, START PROTECT R3 54368048 1 RELAY, START INHIBIT R4 54368048 1 RELAY, GLOW PLUG	
Rc 49841836 1 RESISTOR, CONTROL (GLOW PLUGS) R2 54368048 1 RELAY, START PROTECT R3 54368048 1 RELAY, START INHIBIT R4 54368048 1 RELAY, GLOW PLUG	
R2 54368048 1 RELAY, START PROTECT R3 54368048 1 RELAY, START INHIBIT R4 54368048 1 RELAY, GLOW PLUG	
R3 54368048 1 RELAY, START INHIBIT R4 54368048 1 RELAY, GLOW PLUG	
R4 54368048 1 RELAY, GLOW PLUG	
R6 54368048 1 RELAY, CRANK	
S1 92086719 1 SWITCH, KEY	
SV1 54385992 1 SOLENOID, FUEL	
TS1 54764964 1 SWITCH, A/E HIGH AIR TEMP	
TS2 54764956 1 SWITCH, DISCRG HIGH AIR TEMP	
TS3 36880706 1 SWITCH, HIGH ENGINE TEMP	
W1 22060297 1 HARNESS, ENGINE CONTROL	
COSTAGE AND AND ENGLISHED FOR THE STATE OF T	
22054167 KEY, REMOVABLE	
54774104 KEY, NON-REMOVABLE	

BEGIN WITH S/N 326650

	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION					
I	DATE/DWN BY: 2/17/00 bo	DESCRIPTION STD WIRING DI	AGRAM	1		
1	MODEL NO.	MANUAL NO.	DATE/RE	V:		
	P-250WIR	35393966-093	2/02	С		



ITEM	C.P.N.	DESCRIPTION
D04	2070004	
DS1	36788081	LAMP ASSEMBLY
DS2	36788081	LAMP ASSEMBLY
DS3	36895860	LIGHT, LICENSE
DS4	35367044	LAMP, RED CLEARANCE
DS5	35367051	LAMP, YELLOW CLEARANCE
DS6	35367044	LAMP, RED CLEARANCE
DS7	35367051	LAMP, YELLOW CLEARANCE
W2	36893196	HARNESS, 2-LIGHT SYSTEM
i		

AVAILABLE FROM I-R:

PLUG

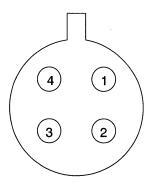
SOCKET

35288760

35288752

NOTE:

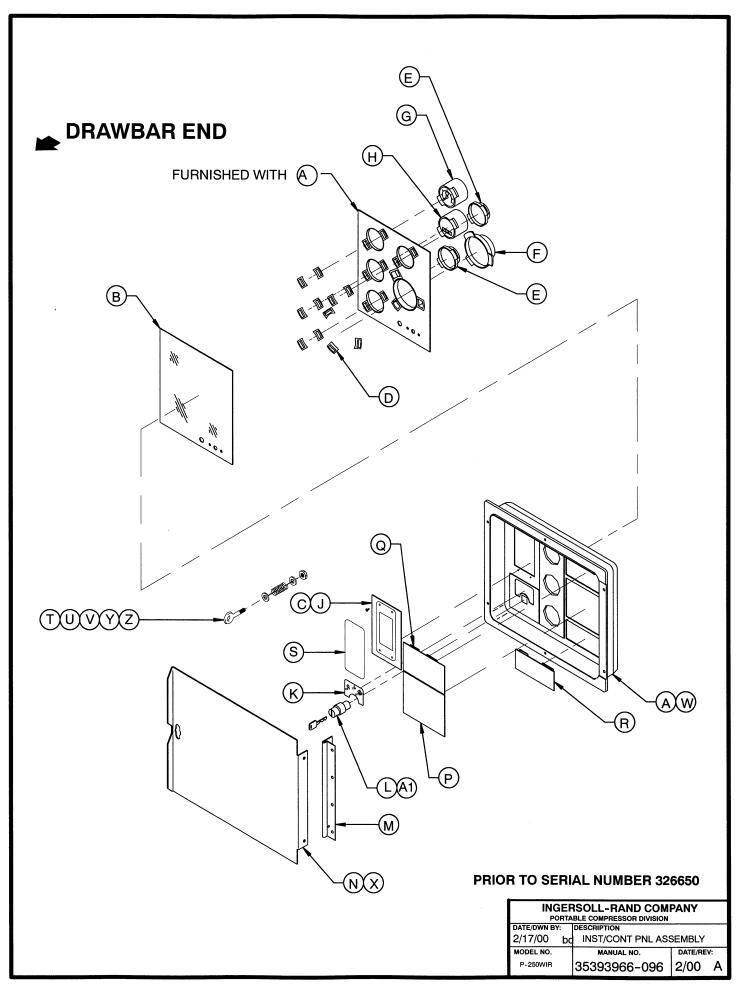
STANDARD MACHINE IS SUPPLIED WITHOUT PLUG ON LIGHT HARNESS.



PLUG / SOCKET WIRING CONNECTIONS

- 1 YELLOW LEFT TURN AND STOP-LIGHT
- 2 BLACK TAIL LIGHTS
- 3 WHITE GROUND
- 4 GREEN- RIGHT TURN AND STOP-LIGHT

	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
1							
1	DATE/DWN BY:	DESCRIPTION					
	2/17/00 b	d STD WIRING DI	AGRAM				
ı	MODEL NO.	MANUAL NO.	DATE/REV:				
ı	P-250WIR	35393966-095	2/00 A				

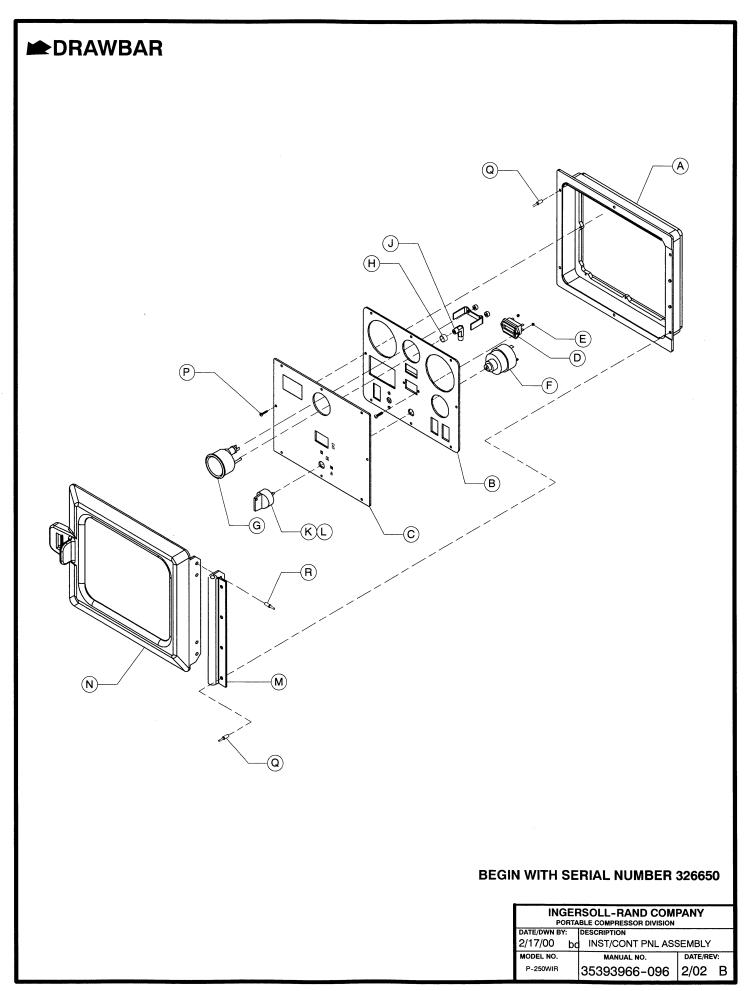


ITEM	C.P.N.	QTY	DESCRIPTION
A	36884492	1	RECESSED FRAME ASSEMBLY
	** 35390368	1	PANEL, ACRYLIC
C	35390400	2	SCREW, FLAT PH #6 X 3/8
	** 36880730	11	CLIP, GAUGE RETAINING
E	35390319	2	CAP, 2" GAUGE
F	35390301	1	CAP, 3.38" GAUGE
G	36879898	1	GAUGE, 150 PSI PRESSURE
Н	36879880	1	HOURMETER
J	35390343	1	COVER, WARNING MODULE
K	36879971	1	DECAL, SWITCH
L	36884211	1	SWITCH, IGNITION
M	36890085	1	HINGE, CONTROL PANEL
N		1	DOOR, INSTRUMENT PANEL
	36879922	-	·
Р	35390293	1	COVER, 3.38" BEZEL
Q	35390285	1	COVER, 2.06" BEZEL
R	35390327	1	COVER, SWITCH PANEL
S	36882173	1	LABEL, BLANK WARNING MODULE
T	35607829	1	EYEBOLT
U	95935029	1	WASHER, FLAT
V	36772028	1	WASHER, PLASTIC
W	36881118	6	RIVET
	36920486	6	RIVET, 3/16 SS
Х	36877587	2	RIVET
Y	35607837	1	SPRING
Z	95923298	1	NUT, HEX 1/4-20
A1	36884229	. 1	KEY

^{**} FURNISHED WITH ITEM "A"

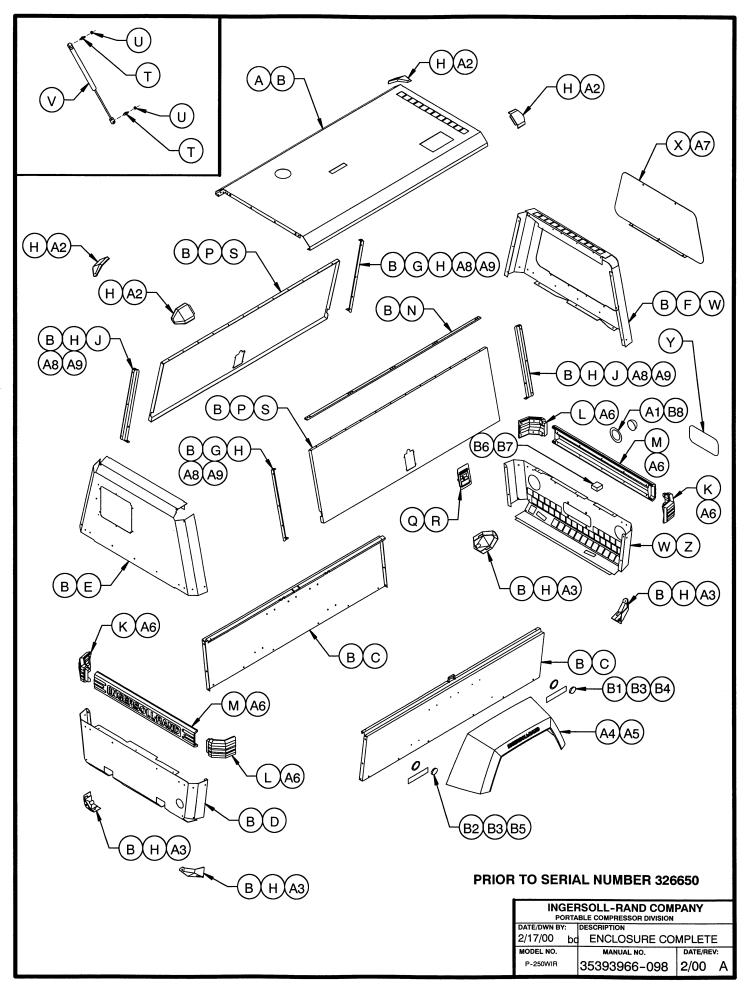
ITEMS "A" THROUGH "L" AND "P" THROUGH "S" ARE INCLUDED WITH PANEL ASSEMBLY 36880557

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DATE/DWN BY: 2/17/00 bo	DESCRIPTION INST/CONT PNL ASS	SEMBLY		
MODEL NO.	MANUAL NO.	DATE/REV:	_	
P-250WIR	35393966-097	2/00	Α	



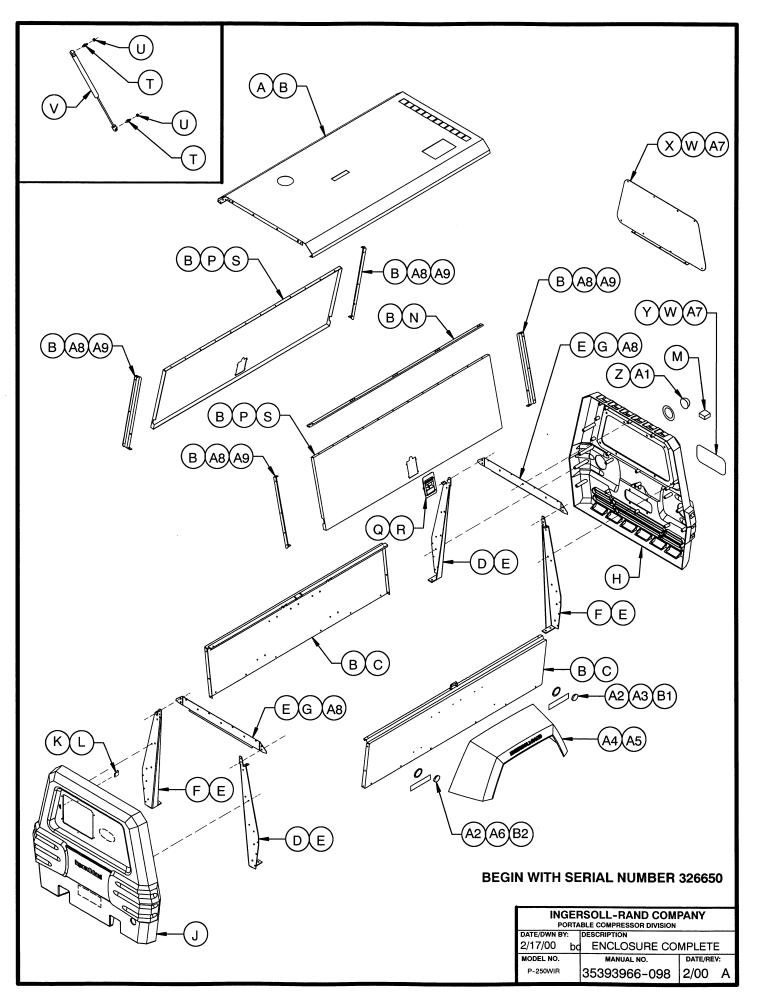
ITEM	C.P.N.	QTY	DESCRIPTION	
	5.4740004		EDAME MANUSCED DANIEL	_
Α _	54749601	1	FRAME, WW INSTR PANEL	
В	54749619	1	PANEL, INSTRUMENT	
С	54766845	1	DECAL, WW INSTR PANEL	
D	54766704	1	METER, ELECTRONIC HOUR	
Е	22054159	2	NUT, PLASTIC 4-40	
F	92086719	1	SWITCH, IGNITION	
G	35604065	1	GAUGE, 150 PSI PRESSURE (P105 - P185)	
	36891216	1	GAUGE, 250 PSI PRESSURE (XP185)	l
Н	95935599	1	COUPLING, STD 1/8 NPT X .75	
J	35370386	1	ELBOW, 1/8 NPT X 3/8 TUBE	
K	22054167	*	KEY, REMOVABLE IGNITION	
L	54774104	*	KEY, NON-REMOVABLE IGNITION	
М	36890085	1	HINGE, CONTROL PANEL	
N	54482500	1	DOOR, INSTRUMENT PANEL (STD. PAINT)	
	54729199	1	DOOR, INSTRUMENT PANEL (SPECIAL PAINT)	
P	22070494	8	SCREW, PLASTIC TAPPING	
Q	54721212	6	RIVET, 3/16 ALUMINUM	
R	54721220	4	RIVET, 3/16 ALUMINUM	

	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DATE/DWN BY: 2/17/00 bo	DESCRIPTION INST/CONT PNL ASS	SEMBLY			
MODEL NO.	MANUAL NO.	DATE/RE	V:		
P-250WIR	35393966-097	2/02	В		



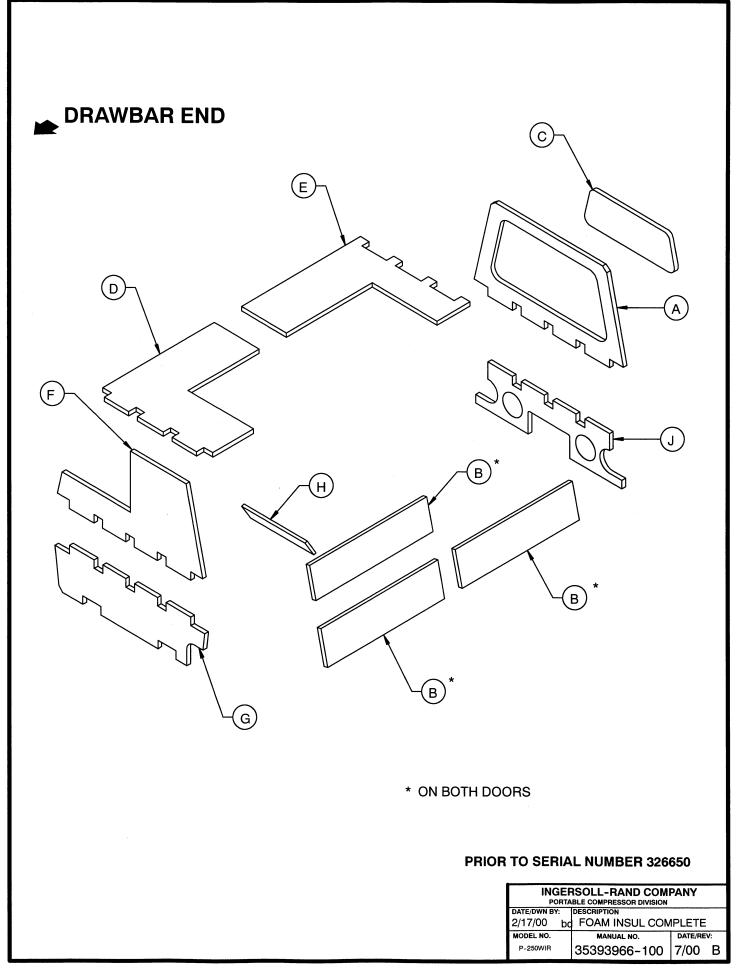
ITEM	C.P.N.	QTY	DESCRIPTION
A	54398417	4	DOOF DANIEL
В	36797652	1 68	ROOF, PANEL
С			SCREW, TAPPING M06-100 X 12
D	36894194	2	PANEL, SIDE
E	36889517	1	CAP, FRONT FOR FND
F	36881779	1	CAP, FRONT TOP END
G	36881795	1	CAP, REAR TOP END
H	36889590 36877587	2 20	STIFFENER, CURB SIDE
J	36889566	20	RIVET, 3/16 ALUM
K	36880953		STIFFENER, STREET SIDE
L	36880961	2 2	BUMPER, END FR CURB/R ST
M	36880979	2	BUMPER, END FR ST/R CURB
N	36883437		BUMPER, CENTER
P	36889509	2 2	HINGE, DOOR DOOR
Q	36793602	2	LATCH, SLAM DOOR
R	36794816	8	
S	36865293	4	RIVET, 3/16 X 1/8 BUMPER, RUBBER
T	35337328	8	STUD, BALL M08
Ü	36881886	8	NUT, HEX FLANGE M08
V	35600287	4	SPRING, GAS
w	36794774	12	GROMMET, SCREW
X	36883445	1	COVER, COOLER ACCESS
Y	36883452	1	COVER, COOLER ACCESS
Z	36894202	1	CAP, REAR BOTTOM END
A1	36787968	2	GROMMET
A2	36881662	4	CAP, TOP CORNER
A3	36881670	4	CAP, BOTTOM CORNER
A4	36877579	2	FENDER
A5	92368687	10	SCREW, TAPPING M06-100 X 14
A6	36884419	22	RIVET, ALUMINUM BULB
A7	36885085	12	SCREW, TAPPING 1/4-10 X 3/4
A8	35279025	4	SCREW, TAPPING M08-1.25 X 20
A9	36889558	4	STOP, DOOR
B1	36894608	2	REFLECTOR, RED
B2	36894616	2	REFLECTOR, AMBER
B3	36893634	4	GROMMET, CLEARANCE LIGHT
B4	35367044	2	LIGHT, RED CLEARANCE
B5	35367051	2	LIGHT, YELLOW CLEARANCE
B6	36895860	1	LIGHT, LICENSE
B7	36782837	2	SCREW, HEX SHT MTL #10 X 1
B8	36788081	2	LAMP ASSEMBLY
		-	

	RSOLL-RAND COM	PANY	
DATE/DWN BY: 2/17/00 bo	DESCRIPTION ENCLOSURE CO	MPLETE	=
MODEL NO.	MANUAL NO.	DATE/RE	
P-250WIR	35393966-099	2/00	Α



ITEM	C.P.N.	QTY	DESCRIPTION
Α	54389598	1	ROOF, PANEL
	54529458	1	ROOF, PANEL (GALVANNEAL)
В	36797652	59	SCREW, TAPPING M06-100 X 12
Ċ	36894194	2	PANEL, SIDE
İ	54529433	2	PANEL, SIDE (GALVANNEAL)
D	54631783	2	STIFFNER, PLASTIC ECAP
Ē	54721238	22	SCREW, 11/32" HI-LO
F	54631775	2	STIFFNER, PLASTIC ECAP
G	54602719	2	CROSSMEMBER, ECAP
H	54473525	1	ENDCAP, REAR (STD. PAINT)
	54729140	1	ENDCAP, REAR (SPECIAL PAINT)
J	54473517	1	ENDCAP, FRONT (STD. PAINT)
İ	54729132	1	ENDCAP, FRONT (SPECIAL PAINT)
K	54482518	1	LATCH, PLASTIC ENDCAP (STD. PAINT)
i	54729181	1	LATCH, PLASTIC ENDCAP (SPECIAL PAINT)
L	54721212	2	RIVET, 3/16 ALUMINUM
M	54726468	1	LIGHT, LICENSE
N	36883437	2	HINGE, DOOR
Р	36889509	2	DOOR
l	54529375	2	DOOR (GALVANNEAL)
Q	36793602	2	LATCH, SLAM DOOR
Ř	36794816	8	RIVET, 3/16 X 1/8
S	36865293	4	BUMPER, RUBBER
Ť	35337328	8	STUD, BALL M08
Ú	36881886	8	NUT, HEX FLANGE M08
V	35600287	4	SPRING, GAS
W	54724117	12	GROMMET, SCREW
Х	36883445	1	COVER, COOLER ACCESS
1	54529326	1	COVER, COOLER ACCESS (GALVANNEAL)
Υ	36883452	1	COVER, COOLER ACCESS
1	54529334	1	COVER, COOLER ACCESS (GALVANNEAL)
Z	36788081	· 2	LAMP ASSEMBLY
A1	36787968	2	GROMMET
A2	36893634	4	GROMMET, CLEARANCE LIGHT
A3	35367044	2	LIGHT, RED CLEARANCE
A4	36877579	2	FENDER
A5	92368687	10	SCREW, TAPPING M06-100 X 14
A6	35367051	2	LIGHT, YELLOW CLEARANCE
A7	36885085	12	SCREW, TAPPING 1/4-10 X 3/4
A8	35279025	24	SCREW, TAPPING M08-1.25 X 20
A9	36889558	4	STOP, DOOR
1	54529417	4	STOP, DOOR (GALVANNEAL)
B1	36894608	2	REFLECTOR, RED
B2	36894616	2	REFLECTOR, AMBER
1			

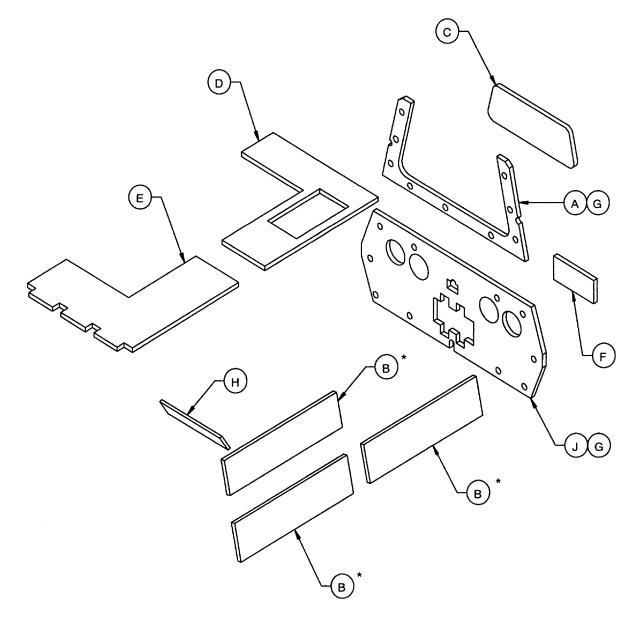
	RSOLL-RAND COMI BLE COMPRESSOR DIVISION	PANY	
014-100	DESCRIPTION		_
2/17/00 bd			
MODEL NO.	MANUAL NO.	DATE/RE	V:
P-250WIR	35393966-099	2/02	В



ITEM	C.P.N.	QTY	DESCRIPTION	
				_
Α	36883700	1	PANEL, REAR END ACST	
В	36883742	6	PANEL, SIDE DOOR ACST	ļ
С	54389879	1	PANEL, ACCESS DOOR ACST	
D	54413075	1	PANEL, REAR ROOF ACST	
Е	54413083	1	PANEL, FRONT ROOF ACST	
F	36883726	1	PANEL, TOP FRONT END ACST	
G	36883734	1	PANEL, BOTTOM FRONT END ACST	
Н	36886166	1	PANEL, INLET BAFFLE ACST	
J	36886125	1	PANEL, BOTTOM REAR END ACST	

1		INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
1	DATE/DWN BY: 2/17/00 bo	DESCRIPTION FOAM INSUL COM	IPLETE		
	MODEL NO.	MANUAL NO.	DATE/REV:		
	P-250WIR	35393966-101	7/00 B		

DRAWBAR END

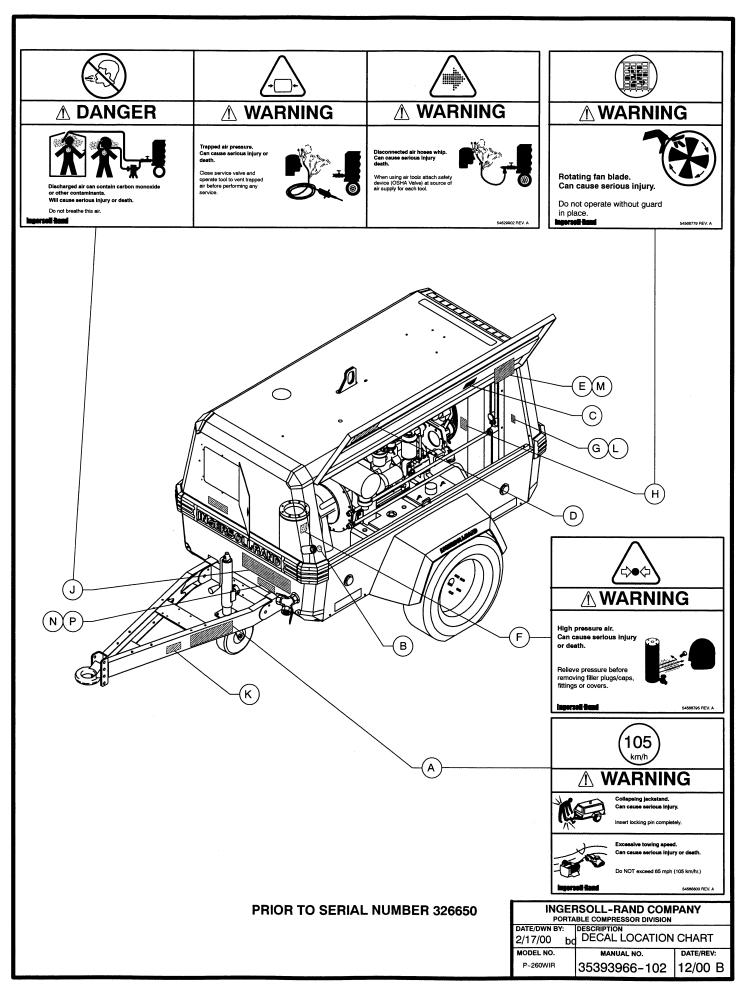


* ON BOTH DOORS

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION						
MODEL NO. P100WIR P185WIR	MANUAL NO. 54437173-090	12/01 C				

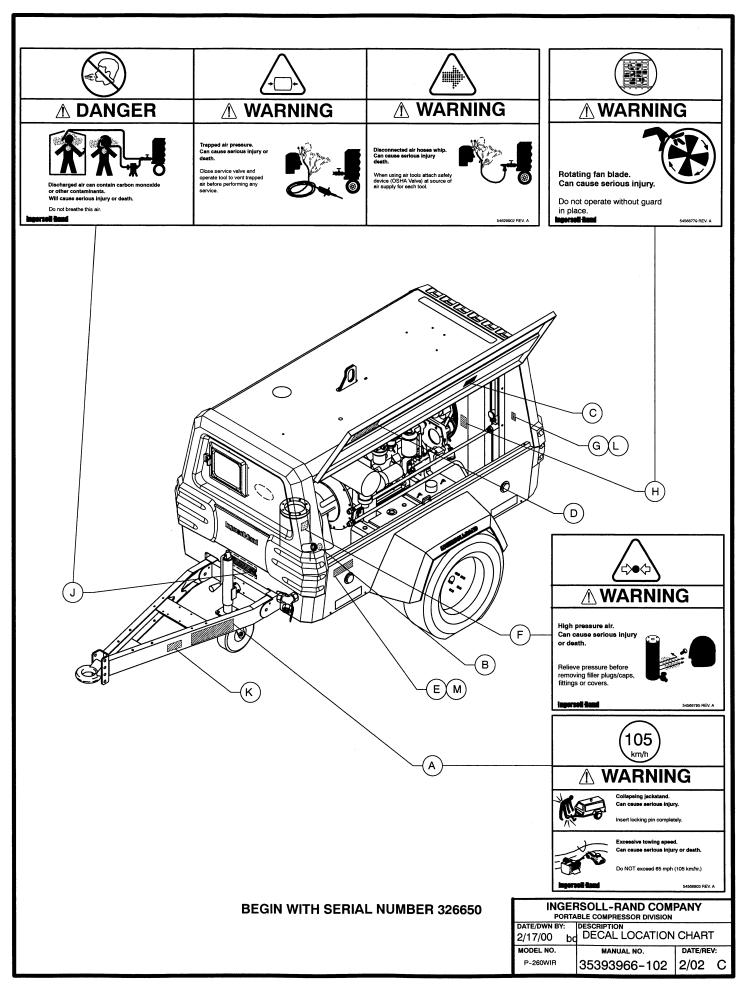
ITEM	C.P.N.	QTY	DESCRIPTION
Α	54698089	1	PANEL, REAR END ACST
В	36883742	6	PANEL, SIDE DOOR ACST
С	54389879	1	PANEL, ACCESS DOOR ACST
D	54389887	1	PANEL, REAR ROOF ACST
Е	36883767	1	PANEL, FRONT ROOF ACST
F	54698105	1	PANEL, ACCESS DOOR ACST
G	54724125	15	CLIP, XMAS TREE
Н	36886166	1	PANEL, INLET BAFFLE ACST
J	54698097	1	PANEL, BOTTOM REAR END ACST

	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION					
ı	DATE/DWN BY: DESCRIPTION					
	2/17/00 bd FOAM INSUL COMPLETE					
ı	MODEL NO. MANUAL NO. DATE/REV:					
P-250WIR 35393966-101 2/02						



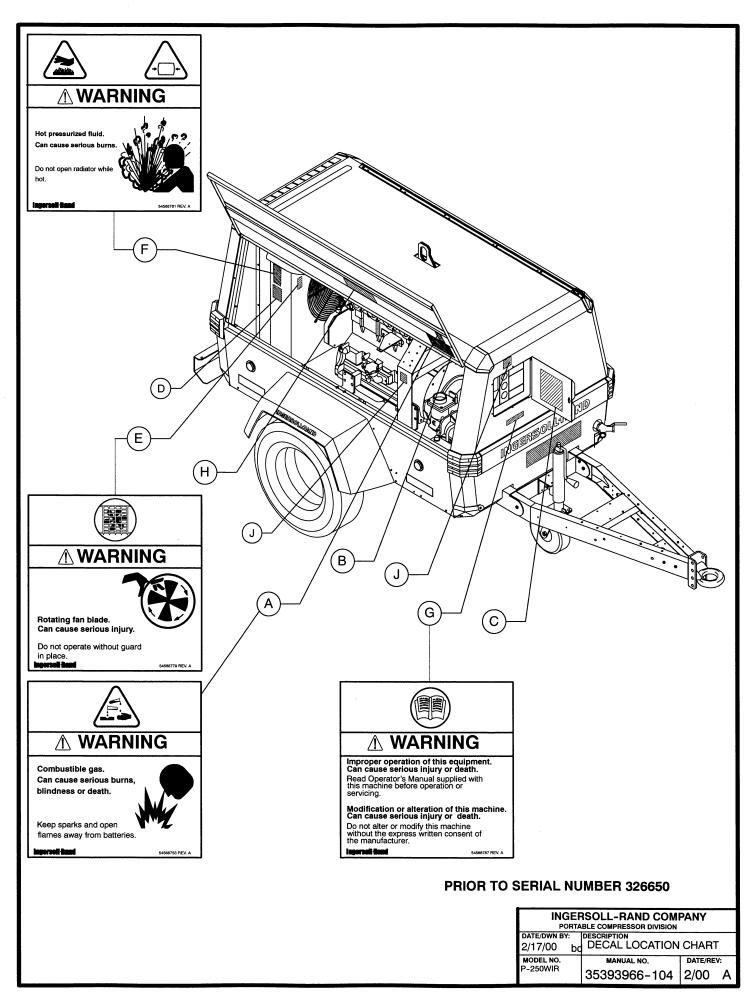
ITEM	C.P.N.	DESCRIPTION
Α	54568803	2-PART DRAWBAR WARNING
В	54604970	OIL FILL
С	54625207	DIESEL FUEL
D	54486410	WIRING DIAGRAM
Е	36522290	SAFETY CARD
F	54568795	HIGH PRESSURE WARNING
G	36523306	SERIAL NUMBER PLATE
Н	54568779	ROTATING FAN WARNING
J	54629902	3-PART DANGER/WARNING
K	54604921	TOW CHAINS NOTICE
L	36794816	RIVET
М	36847861	CABLE TIE
Ν	36531176	V.I.N.
Р	36533081	V.I.N. OVERLAY

PORTA	RSOLL-RAND COMI BLE COMPRESSOR DIVISION	PANY	
DATE/DWN BY: 2/17/00 bo	DECAL LOCATION CHART		
MODEL NO.	MANUAL NO.	DATE/REV:	
P-260WIR	35393966-103	12/00 B	



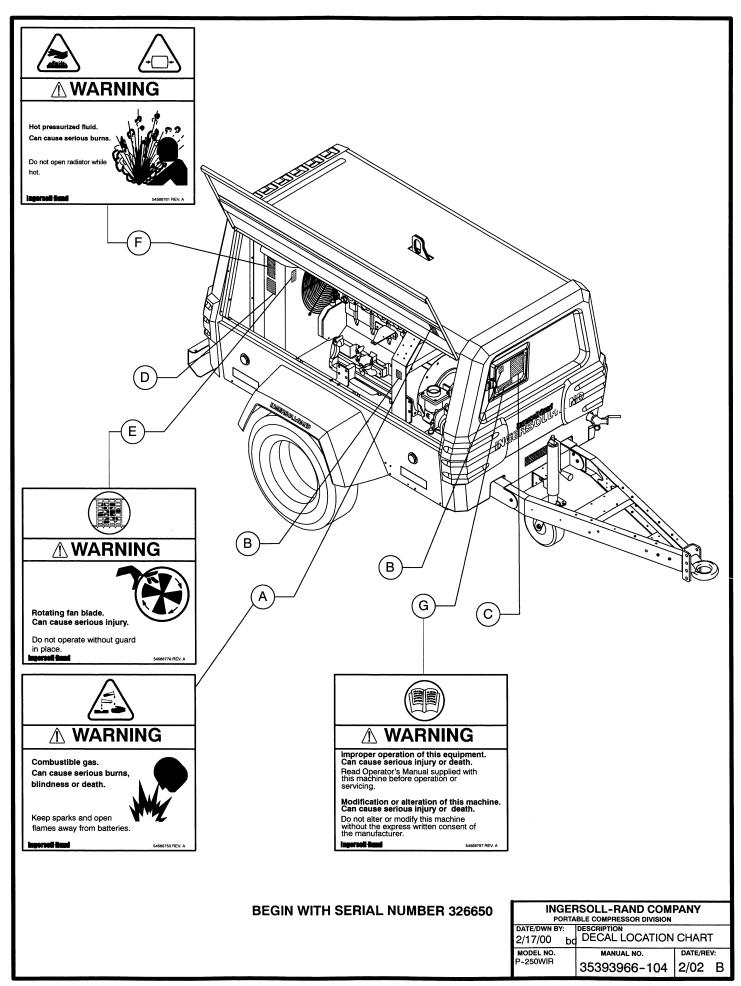
ITEM	C.P.N.	DESCRIPTION
	5.4500000	o BART BRAWBAR WARNING
Α	54568803	2-PART DRAWBAR WARNING
В	54604970	OIL FILL
С	54625207	DIESEL FUEL
D	22096036	WIRING DIAGRAM
Ε	36531176	V.I.N.
F	54568795	HIGH PRESSURE WARNING
G	36523306	SERIAL NUMBER PLATE
Н	54568779	ROTATING FAN WARNING
J	54629902	3-PART DANGER/WARNING
K	54604921	TOW CHAINS NOTICE
L	36794816	RIVET
М	36533081	V.I.N. OVERLAY

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION					
DATE/DWN BY: DESCRIPTION					
	2/17/00 bd DECAL LOCATION CHART				
MODEL NO.	MANUAL NO.	DATE/RE	V:		
P-260WIR 35393966-103 6/02 D					



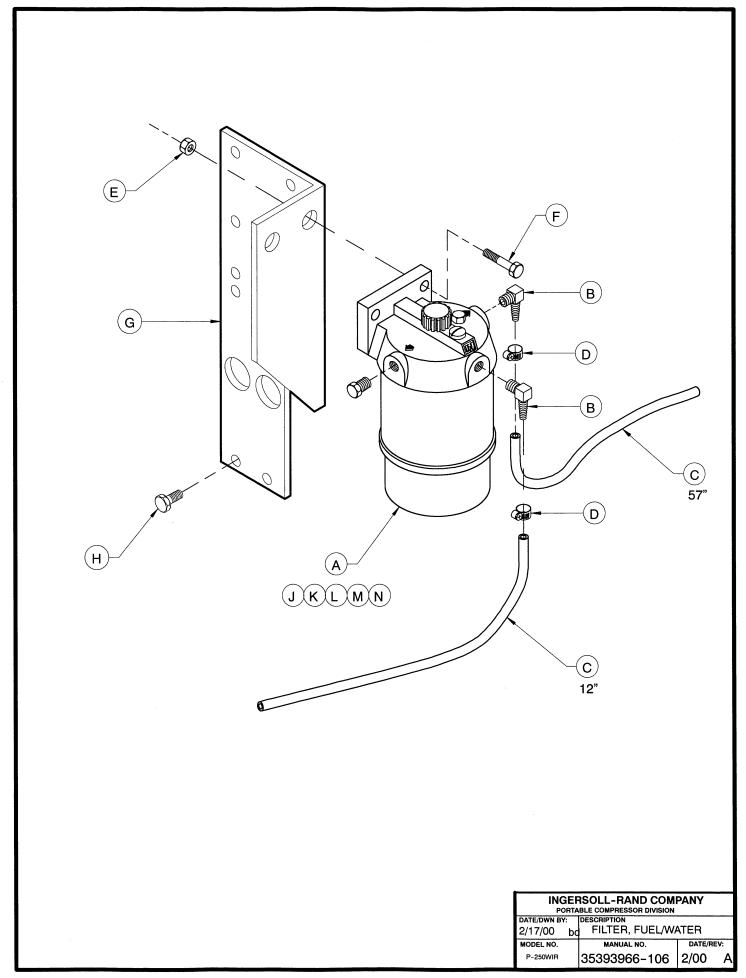
ITEM	C.P.N.	DESCRIPTION
Α	54568753	BATTERY GAS WARNING
В	54465166	GENERAL DATA
С	54495536	OPERATING INSTRUCTIONS
D	54604962	RADIATOR FILL
Ε	54568779	ROTATING FAN WARNING
F	54568761	HOT PRESS FLUID WARNING
G	54568787	IMPROPER OPERATION
Н	54495544	PRESSURE REGULATION
J	54454756	NO ETHER
i		

	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DATE/DWN BY: 2/17/00 bo	DECAL LOCATION CHAR			
MODEL NO.	MANUAL NO.	DATE/REV:		
P-250WIR	35393966-105	2/00 A		



ITEM	C.P.N.	DESCRIPTION
Α	54568753	BATTERY GAS WARNING
В	54454756	NO ETHER
С	54749163	OPERATING INSTRUCTIONS
D	54604962	RADIATOR FILL
Ε	54568779	ROTATING FAN WARNING
F	54568761	HOT PRESS FLUID WARNING
G	54568787	IMPROPER OPERATION

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DATE/DWN BY: 2/17/00 bo				
MODEL NO.	MANUAL NO.	DATE/RE	V:	
P-250WIR	35393966-105	2/02	В	



ITEM	C.P.N.	QTY	DESCRIPTION
Α	54468160	1	FILTER, FUEL/WATER SEPARATOR
В	35378538	2	ELBOW, BARBED
С	35363498	*	HOSE, 5/16 FUEL
D	35296342	2	CLAMP
Е	36881886	2	NUT, HEX FLANGE M08-1.25
F	36889608	2	SCREW, HEX FLANGE M08-1.25 X 25
G	36883890	1	BRACKET, ETHER/FUEL FILTER
Н	35279025	2	SCREW, TAPPING M08-1.25 X 20
J	54468178	**	ASSEMBLY, ELEMENT
K	54480504	**	BOWL
L	54480512	**	HEAD
M	35358381	**	COVER, CHECK BALL
N	54480520	**	PLUG, VENT

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION					
DATE/DWN BY:					
MODEL NO.	MANUAL NO. DATE/REV:				
P-250WIR	35393966-107 2/00				

^{*} AS REQUIRED ** INCLUDED IN FUEL / WATER SEPARATOR FILTER 54468160

SECTION 12 - OPTIONS LIST

Axle, Electric Brake Axle, Hydraulic Brake

Brakes, Electric Shoe, Electric Brake Shoe, Hydraulic Brake Brakes, Electric w/ 4-Lights

Brakes, Electric w/ Park

Brakes, Adj Height Drawbar Hydraulic Brakes, Extended Drawbar Hydraulic

Brakes, Hydraulic

Brakes, Hydraulic w/ Park

Cold Start, Auto JD
Cold Start, Manual
Diagnostic Module
Drains, IR Central
Drains, JD Central

Drawbar, Adjustable Height

Drawbar, Extended

Drawbar, Extended/Adjustable Ht.

Filter, Fuel/Water Gauge, 4 in 1 Gauge, Fuel Level Gauge, Tachometer Hose Reel Assembly
Hose Reel, Single
Hose Reel, Double
Oiler, 1 Qt. Hose Reel
Oiler, 2 Qt. Hose Reel
Indicator, Electric Air Filter

Leg, Rear Drop

Lights, 4

Lights, Revolving Amber

Panel, Inst wo/ Start-Run Valve

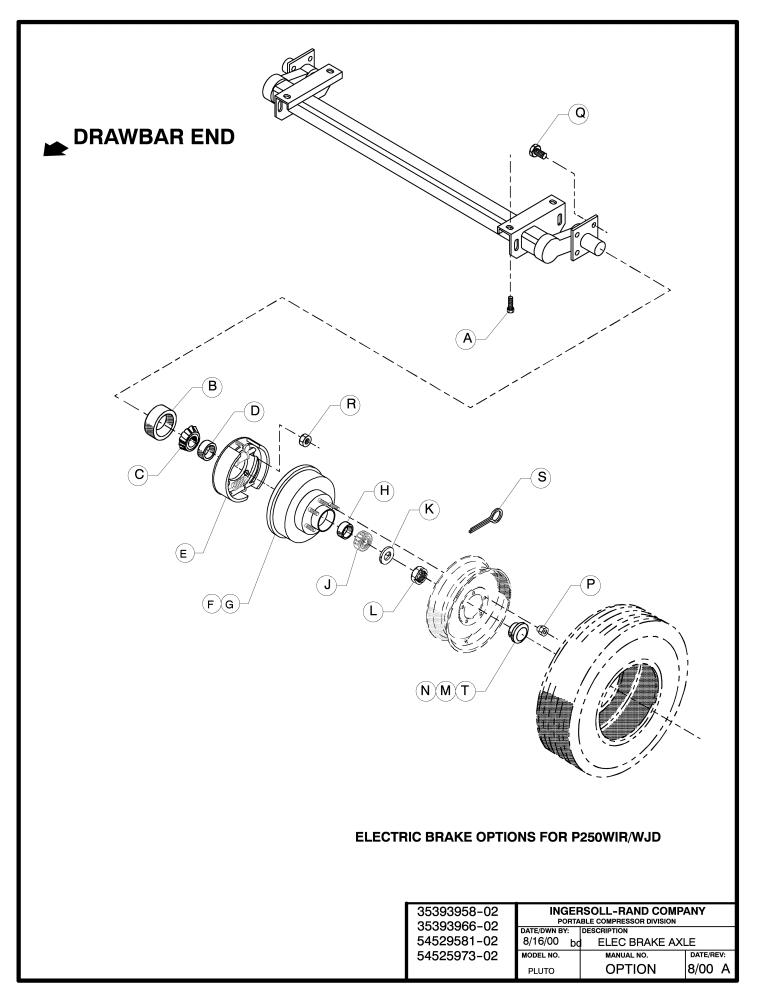
Valve, Minimum Pressure Valve, Electric Start Run

Valve, Start Run Generator, IR 4.5 kW Generator, JD 4.5 kW

Heater, Block

Schematic, JD Option Wiring Schematic, IR Option Wiring Schematic, Cold Start Wiring Schematic, 4 Light Wiring Schematic, Generator Wiring Schematic, Block Heater Wiring

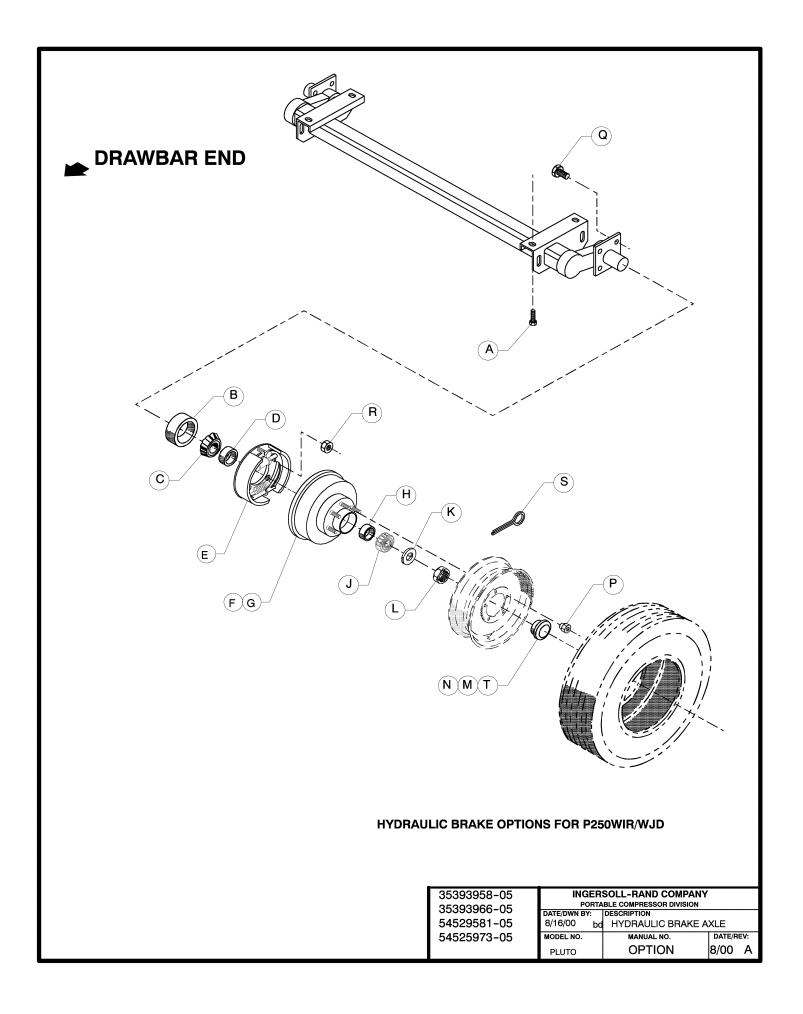
Miscelaneous Options



ITEM	C.P.N.	QTY	DESCRIPTION
	36879302		CODEW LIEVELANCED LID MAC V FO
A		4	SCREW, HEX FLANGED HD M16 X 50
В	35316868	2	SEAL, E Z LUBE GREASE
С	35316876	2	CONE, INNER BEARING
D	35316884	2	CUP, INNER BEARING
Е	35390814	1	LH BRAKE ASSEMBLY
i	35390822	1	RH BRAKE ASSEMBLY
F	35390459	2	HUB & DRUM with STUDS
G	35361898	12	STUD
Н	35318831	2	CUP, OUTTER BEARING
J	35318849	2	CONE, OUTTER BEARING
K	35315209	2	WASHER, SPINDLE
L	35315217	2	NUT, SPINDLE
М	35379395	2	CAP, E Z LUBE GREASE
N	35391135	2	PLUG, E Z LUBE RUBBER
Р	35315274	12	NUT, WHEEL
Q	35391648	10	SCREW, BRAKE MOUNTING
R	35391630	10	NUT, BRAKE MOUNTING HEX
S	35315225	2	PIN, COTTER
Т	35390012	2	WASHER, TANG

ELECTRIC BRAKE OPTIONS FOR P250WIR/WJD

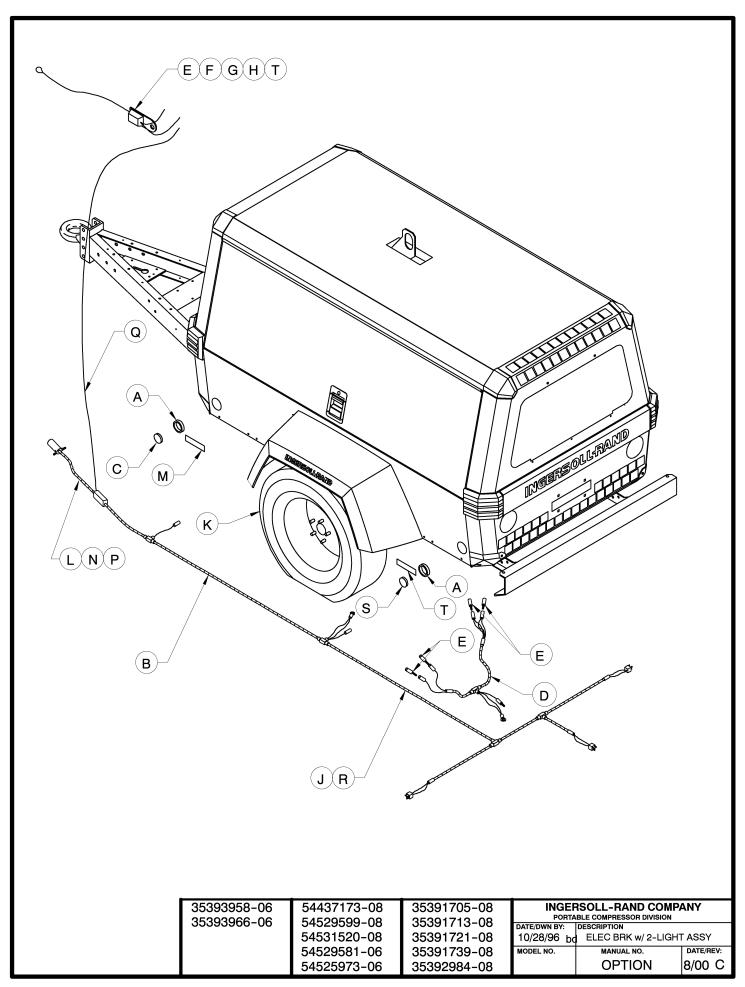
35393958-03 35393966-03	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
54529581-03	DATE/DWN BY: 8/16/00 bo	DESCRIPTION ELEC BRAKE AXI	LE	
54525973-03	MODEL NO. PLUTO	MANUAL NO. OPTION	8/00 A	



ITEM	C.P.N.	QTY	DESCRIPTION
Α	36879302	4	SCREW, HEX FLANGED HD M16 X 50
В		=	·
	35316868	2	SEAL, E Z LUBE GREASE
С	35316876	2	CONE, INNER BEARING
D	35316884	2	CUP, INNER BEARING
E	35390442	1	LH HYDRAULIC BRAKE ASSEMBLY
	35390434	1	RH HYDRAULIC BRAKE ASSEMBLY
F	35390459	2	HUB & DRUM with STUDS
G	35361898	12	STUD
Н	35318831	2	CUP, OUTTER BEARING
J	35318849	2	CONE, OUTTER BEARING
K	35315209	2	WASHER, SPINDLE
L	35315217	2	NUT, SPINDLE
М	35379395	2	CAP, E Z LUBE GREASE
N	35391135	2	PLUG, E Z LUBE RUBBER
Р	35315274	12	NUT, WHEEL
Q	35391648	10	SCREW, BRAKE MOUNTING
R	35391630	10	NUT, BRAKE MOUNTING HEX
S	35315225	2	PIN, COTTER
Т	35390012	2	WASHER, TANG

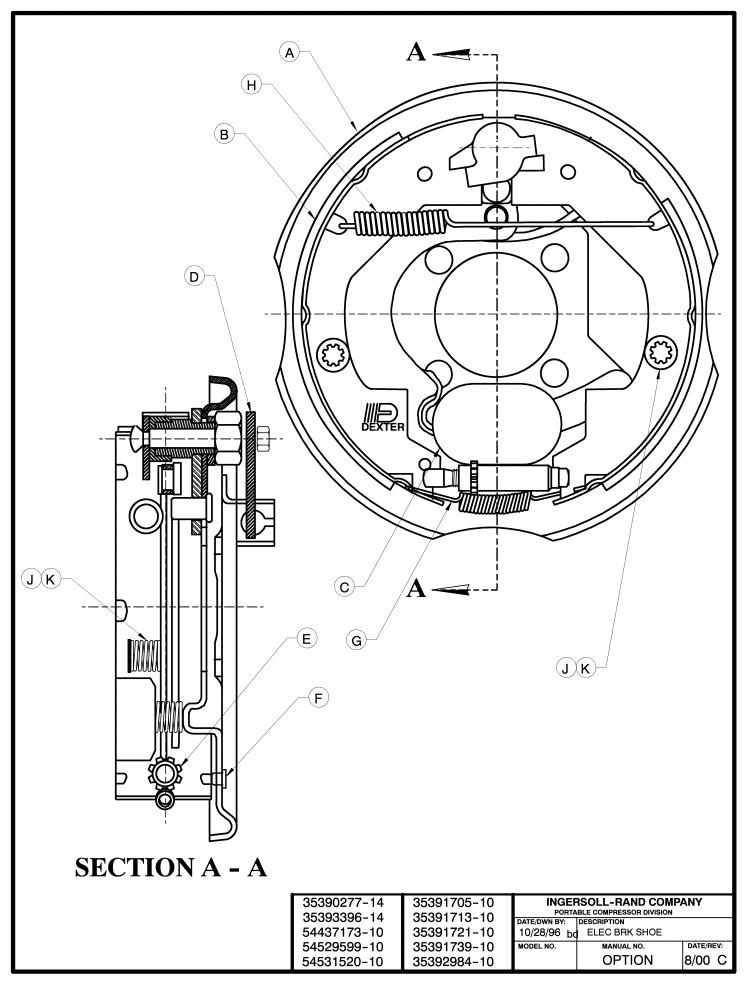
HYDRAULIC BRAKE OPTIONS FOR P250WIR/WJD

35393958-05 35393966-05	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
54529581-05	DATE/DWN BY: 8/16/00 bo	DESCRIPTION HYDRAULIC BRAKE	E AXLE	
54525973-05	MODEL NO. PLUTO	MANUAL NO. OPTION	DATE/REV:	



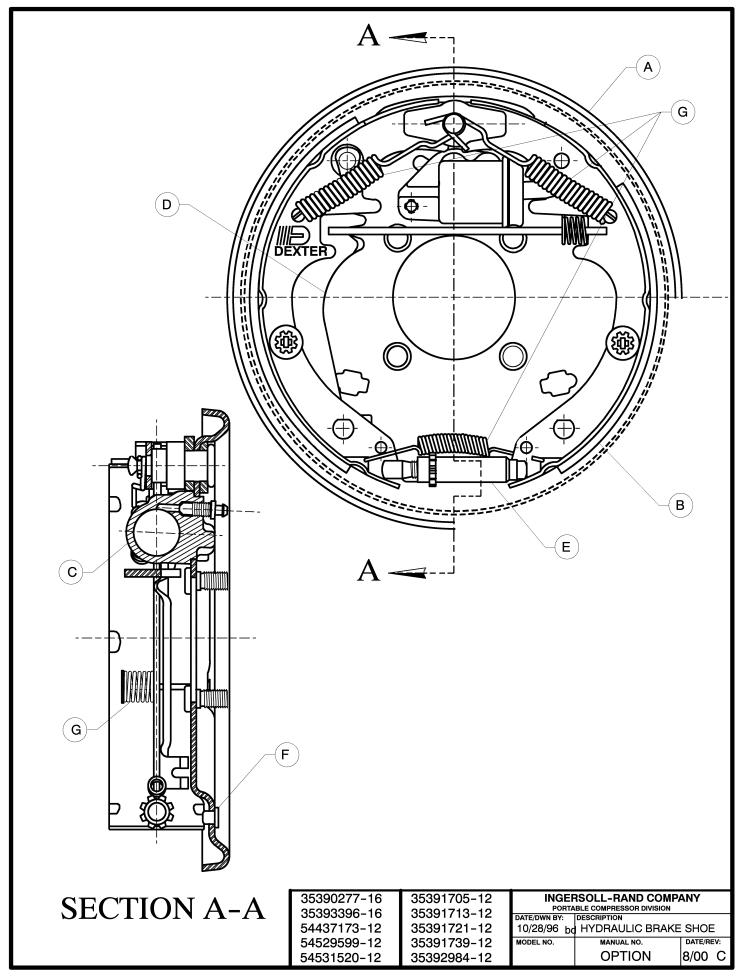
ITEM	C.P.N.	QTY	DESCRIPTION
-			
Α	36893634	4	GROMMET, CLEARANCE LIGHT
В	36893345	1	HARNESS, TAIL LIGHT
С	35367051	2	LIGHT, YELLOW CLEARANCE
D	36895282	1	HARNESS, ELECTRIC BRAKE
E	35375427	8	TERMINAL, SNAP
F	35315944	1	SWITCH, BREAKAWAY
G	37140365	1	TERMINAL, SPLICE
Н	35346337	1	TERMINAL, LUG
J	35253038	4	CLAMP, 3/8
K	36881324	1	GEAR, ELEC BRAKE w/ RUNNING
L	92368687	6	SCREW, TAPPING M06-100 X 14
М	36894616	2	REFLECTOR, AMBER
N	36789261	1	HARNESS, 6 CONDUCTOR CABLE (STD LENGTH DRAWBAR)
	36787216	1	HARNESS, 6 CONDUCTOR CABLE (EXT LENGTH DRAWBAR)
Р	35225093	3	CLAMP, 1/2
Q	35120005	40"	WIRE, 14 GA BLACK
R	35279025	3	SCREW, TAPPING M08-125 X 20
S	35367044	2	LIGHT, RED CLEARANCE
Т	36894608	2	REFLECTOR, RED

35393958-07 35393966-07	54437173-09 54529599-09	35391705-09 35391713-09		RSOLL-RAND COMPABLE COMPRESSOR DIVISION	ANY
33393900-07	54531520-09	35391713-09	DATE/DWN BY: 10/28/96 bo	DESCRIPTION d ELEC BRK w/ 2-LIGHT ASSY	
	54529581-07	35391739-09	MODEL NO.	MANUAL NO.	DATE/REV:
	54525973-07	35392984-09		OPTION	8/00 C



ITEM	C.P.N.	QTY	DESCRIPTION
Α	35391184	1	LH BACKING PLATE ASSEMBLY
<u> </u>	35391192	1	RH BACKING PLATE ASSEMBLY
В	35391333	1	BRAKE SHOE KIT
С	35391309	2	MAGNET KIT
D	35391267	2	PARKING BRAKE LEVER
Е	35391366	2	ADJUSTING SCREW ASSEMBLY
F	35391416	2	ADJUSTING SLOT PLUG
G	35391374	2	SPRING, ADJUSTER
Н	35391358	2	SPRING, RETRACTOR
J	35391382	4	SPRING, SHOE HOLD DOWN
K	35391390	4	PIN, SHOE HOLD DOWN
L	35391226	1	LH ACTUATING LEVER KIT
	35391234	1	RH ACTUATING LEVER KIT

| 35390277-15 | 35391705-11 | 35393396-15 | 35391713-11 | 35391721-11 | 35391721-11 | 35391739-11 | 35391739-11 | 35392984-11 | 35392984-11 | OPTION | 8/00 C



ITEM	C.P.N.	QTY	DESCRIPTION
Α	35391432	2	BACKING PLATE ASSEMBLY
В	35391556	2	BRAKE SHOE KIT
С	35391440	1	CYLINDER, LH BRAKE
	35391457	1	CYLINDER, RH BRAKE
D	35391580	1	LH PARKING LEVER & PIN
	35391598	1	RH PARKING LEVER & PIN
Е	35391499	2	ADJUSTING SCREW ASSEMBLY
F	35391481	4	ADJUSTING SLOT PLUG
G	35391507	2	BRAKE SPRING KIT

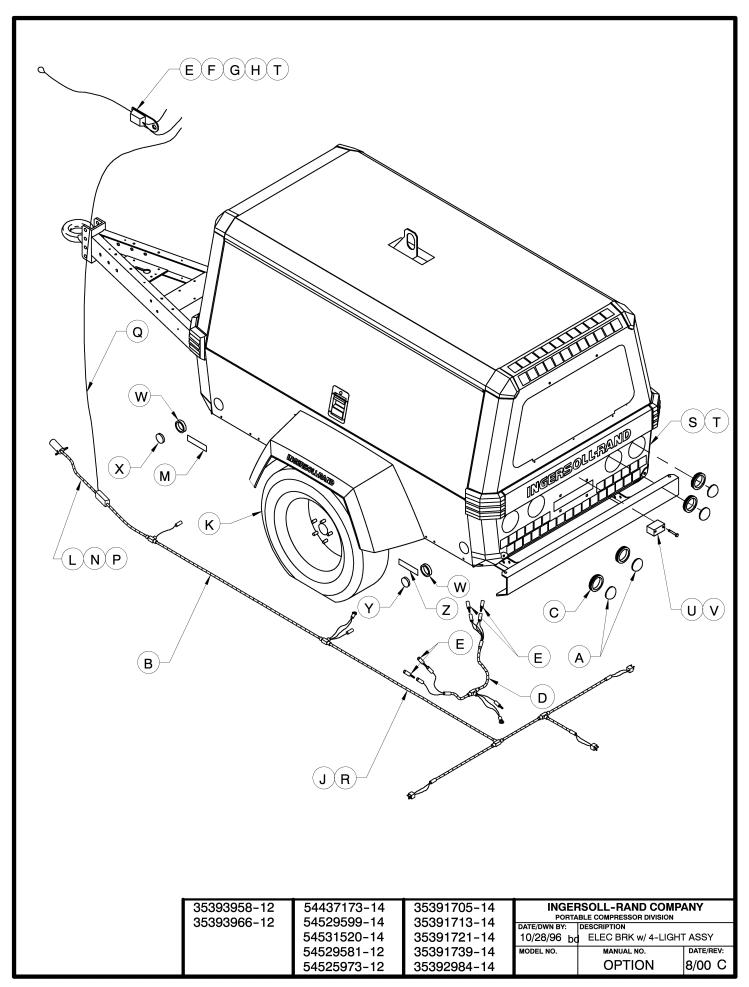
35390277-17 35391705-13 INGERS PORTABLE STATE OF THE PORTABLE STAT

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DATE/DWN BY: DESCRIPTION

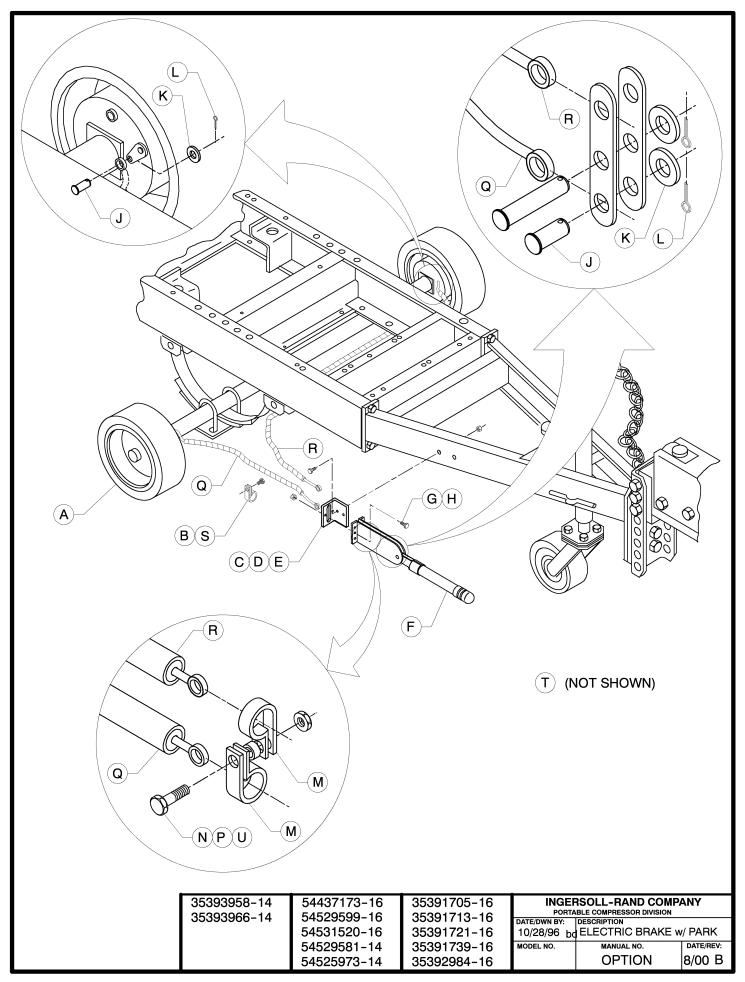
10/28/96 bd HYDRAULIC BRAKE SHOE

MODEL NO. MANUAL NO. DATE/REV:
OPTION 8/00 C



ITEM	C.P.N.	QTY	DESCRIPTION
Α	36788081	4	TAIL LIGHT
В	36893345	1	HARNESS, TAIL LIGHT
С	36787968	4	GROMMET
D	36895282	1	HARNESS, ELECTRIC BRAKE
E	35375427	8	TERMINAL, SNAP
F	35315944	1	SWITCH, BREAKAWAY
G	37140365	1	TERMINAL, SPLICE
Н	35346337	1	TERMINAL, LUG
J	35253038	4	CLAMP, 3/8
K	36881324	1	GEAR, ELEC BRAKE w/ RUNNING
L	92368687	6	SCREW, TAPPING M06-100 X 14
М	36894616	2	REFLECTOR, AMBER
N	36789261	1	HARNESS, 6 CONDUCTOR CABLE (STD LENGTH DRAWBAR)
l	36787216	1	HARNESS, 6 CONDUCTOR CABLE (EXT LENGTH DRAWBAR)
Р	35225093	3	CLAMP, 1/2
Q	35120005	40"	WIRE, 14 GA BLACK
R	35279025	3	SCREW, TAPPING M08-125 X 20
S	36889491	1	CAP, BOTTOM REAR END
l	54529367	1	CAP, BOTTOM REAR END (GALVANNEAL)
Т	36797652	8	SCREW, TAPPING M06-100 X 12
U	36881910	1	LIGHT, LICENSE
V	36782837	2	SCREW, HEX SH MET #10 X 1
W	36893634	4	GROMMET, CLEARANCE LIGHT
Х	35367051	2	LIGHT, YELLOW CLEARANCE
Υ	35367044	2	LIGHT, RED CLEARANCE
Z	36894608	2	REFLECTOR, RED
l			

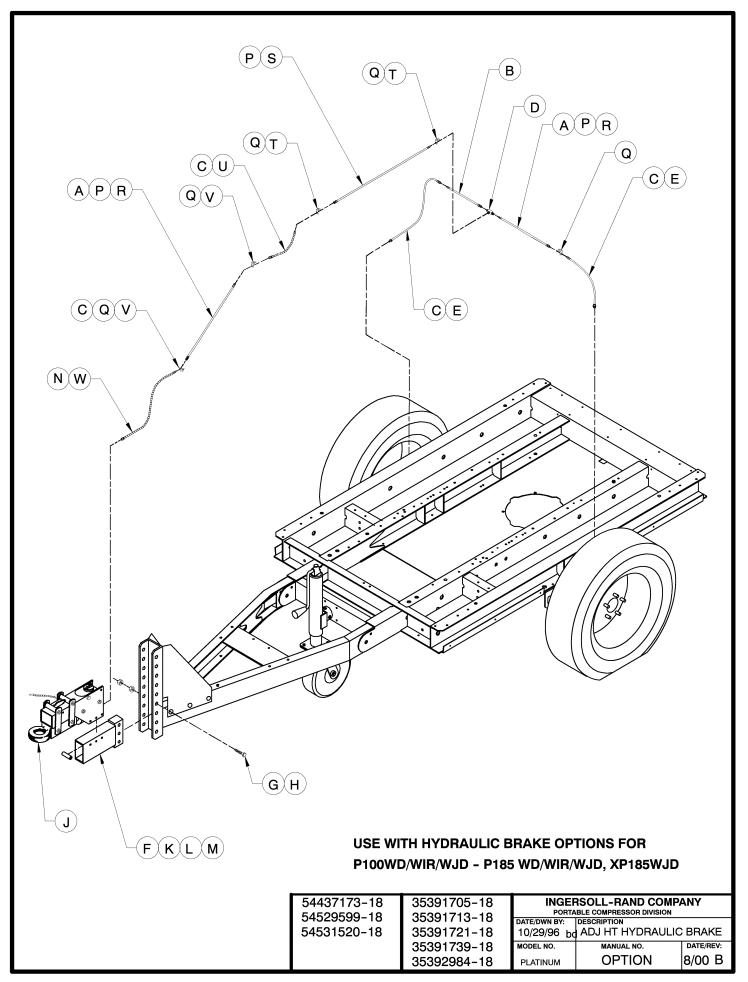
35393958-13	54437173-15	35391705-15	INGERSOLL-RAND COMPANY		
35393966-13	54529599-15	35391713-15	PORTA	BLE COMPRESSOR DIVISION	
33393900-13	34328388-13	33381713-13	DATE/DWN BY:	DESCRIPTION	
	54531520-15	35391721-15	10/28/96 bo	ELEC BRK w/ 4-LIGH	T ASSY
	54529581-13	35391739-15	MODEL NO.	MANUAL NO.	DATE/REV:
	54525973-13	35392984-15		OPTION	8/00 C



ITEM	C.P.N.	QTY	DESCRIPTION
Α	36881324	1	RUNNING GEAR W/ BRAKES
В	35134477	1	CLAMP, RUBBER COATED
C	35116433	1	BRACKET, BRAKE LEVER
D	36769297	2	,
			SCREW, HEX M10-150 X 35
E	96701529	2	NUT, HEX M10
F	35370055	1	LEVER, PARKING BRAKE
G	35374834	2	SCREW, HEX M08-125 X 25
Н	96700869	2	NUT, HEX M08
J	36846780	4	PIN, CLEVIS .31 X .75
K	95934998	4	WASHER, FLAT 3/8
L	95928867	4	PIN, COTTER .09
М	35126325	2	CLAMP, CABLE
N	95929006	1	SCREW, HEX 5/16-18 X 1
Р	35126358	1	SPACER
Q	35589746	1	ASSEMBLY, BRAKE CABLE 78
R	36503134	1	ASSEMBLY, BRAKE CABLE 108
S	35300771	1	SCREW, TAPPING M06-100 X 20
Т	35253038	4	CLAMP, RUBBER COATED
U	35252600	1	NUT, LOCKING 5/16-18

USE WITH ELECTRIC BRAKE OPTIONS FOR P100WD/WIR/WJD - P185 WD/WIR/WJD, XP185WJD

54437173-17 54529599-17	35391705-17 35391713-17	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION		
34329399-17	33391713-17	DATE/DWN BY:	DESCRIPTION	
54531520-17	35391721-17	10/28/96 bd ELECTRIC BRAKE w/ PARK		
	35391739-17	MODEL NO.	MANUAL NO.	DATE/REV:
	35392984-17	PLATINUM	OPTION	8/00 B

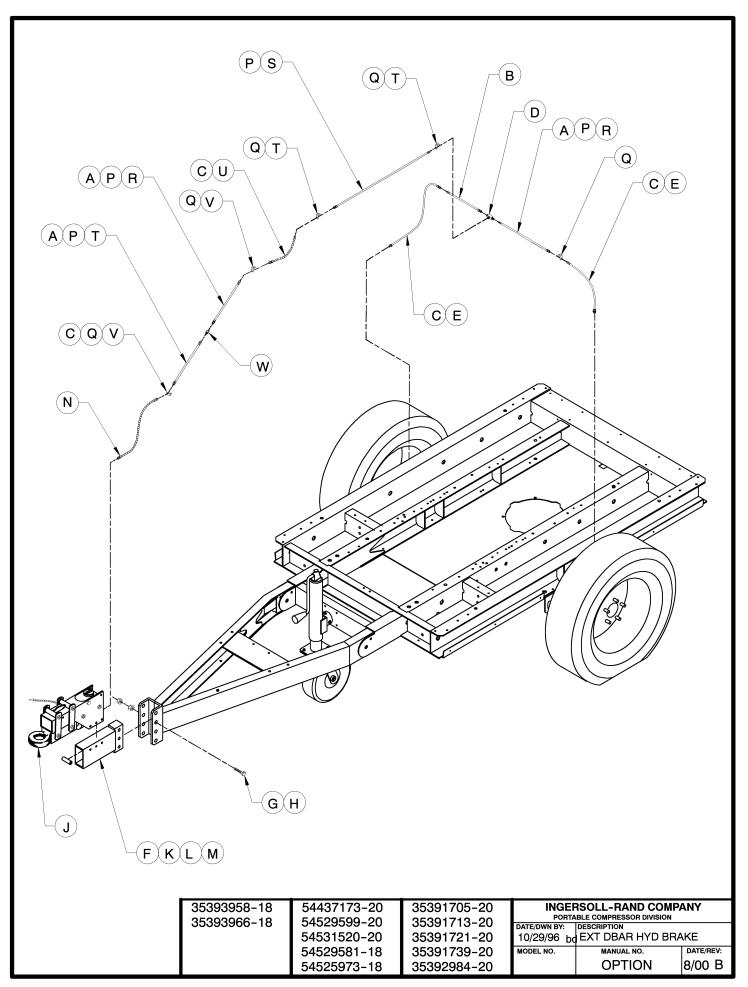


ITEM	C.P.N.	QTY	DESCRIPTION	
		_		
Α	35356401	2	HOSE, BRAKE 3/16 X 40	
В	36881290	1	HOSE, BRAKE 3/8 X 12	
С	35356302	5	CLIP, HOSE	
D	35356328	1	TEE, 3/16 INVERTED	
Е	35356369	2	TUBE, BRAKE 3/16 X 10	
F	36758647	1	SUPPORT, HYDRAULIC ACTUATOR	
G	35376094	3	SCREW, M16-200	
Н	96700885	6	NUT, HEX M16	
J	35316611	1	ACTUATOR, HYDRAULIC BRAKE	
K	35333673	3	SPACER, HYDRAULIC DRAWBAR	
L	95935169	3	SCREW, 1/2-13 X 4	
М	95923348	3	NUT, NYLOC 1/2-13	
N	35605310	1	TUBING, 3/16 X 18.88	
Р	37001252	4	CLAMP, SUPPORT	
Q	35356310	5	BRACKET, HOSE MOUNTING	
R	35300771	2	SCREW, TAPPING M06-100 X 20	
S	36881274	1	HOSE, BRAKE 3/16 X 50	
Т	92368687	2	SCREW, TAPPING M06-100 X 14	
U	36881399	1	HOSE, BRAKE 3/8 X 24	
V	35279025	2	SCREW, TAPPING M08-125 X 20	
W	35315746	1	ADAPTER	

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

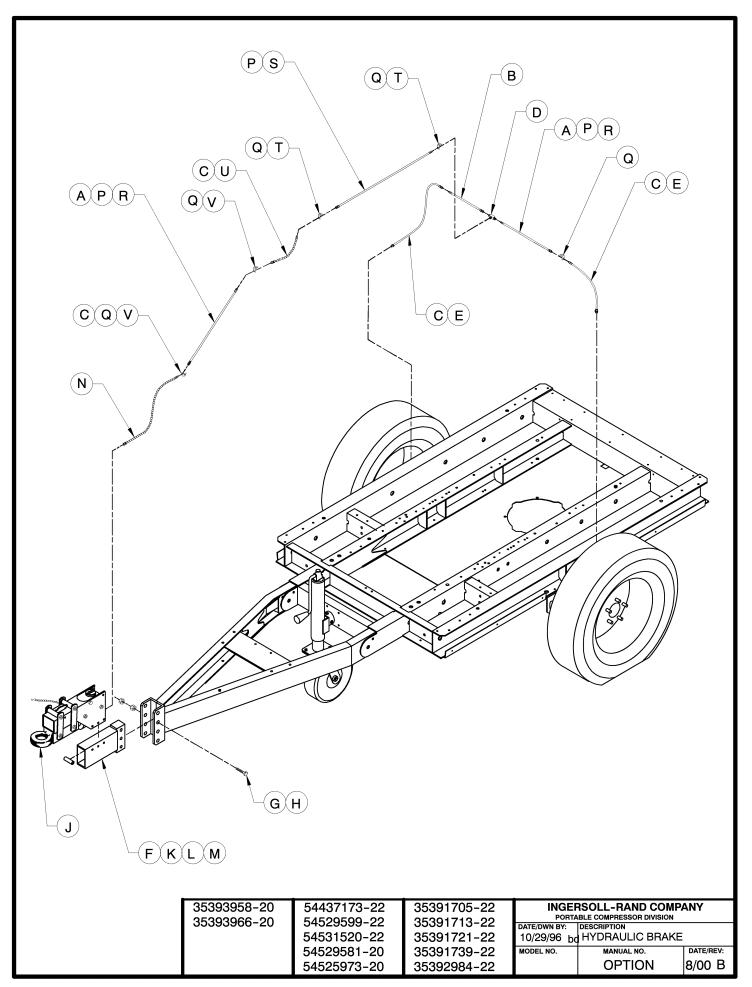
DATE/DWN BY: DESCRIPTION

10/29/96 bd ADJ HT HYDRAULIC BRAKE 35393958-17 35391705-19 54437173-19 35393966-17 54529599-19 35391713-19 54531520-19 35391721-19 54529581-17 MODEL NO. MANUAL NO. DATE/REV: 35391739-19 **OPTION** 8/00 B 54525973-17 35392984-19



ITEM	C.P.N.	QTY	DESCRIPTION	
Α	35356401	3	HOSE, BRAKE 3/16 X 40	
В	36881290	1	HOSE, BRAKE 3/8 X 12	
С	35356302	4	CLIP, HOSE	
D	35356328	1	TEE, 3/16 INVERTED	
Е	35356369	2	TUBE, BRAKE 3/16 X 13	
F	36758647	1	SUPPORT, HYDRAULIC ACTUATOR	
G	35376094	3	SCREW, M16-200	
Н	96700885	6	NUT, HEX M16	
J	35316611	1	ACTUATOR, HYDRAULIC BRAKE	
K	35333673	3	SPACER, HYDRAULIC DRAWBAR	
L	95935169	3	SCREW, 1/2-13 X 4	
М	95923348	3	NUT, NYLOC 1/2-13	
N	35356377	1	TUBING, 3/16 X 18.88	
Р	37001252	4	CLAMP, SUPPORT	
Q	35356310	5	BRACKET, HOSE MOUNTING	
R	35300771	2	SCREW, TAPPING M06-100 X 20	
S	36881274	1	HOSE, BRAKE 3/16 X 50	
Т	92368687	2	SCREW, TAPPING M06-100 X 14	
U	36881399	1	HOSE, BRAKE 3/8 X 24	
V	35279025	2	SCREW, TAPPING M08-125 X 20	
W	35356336	1	UNION, 3/16	

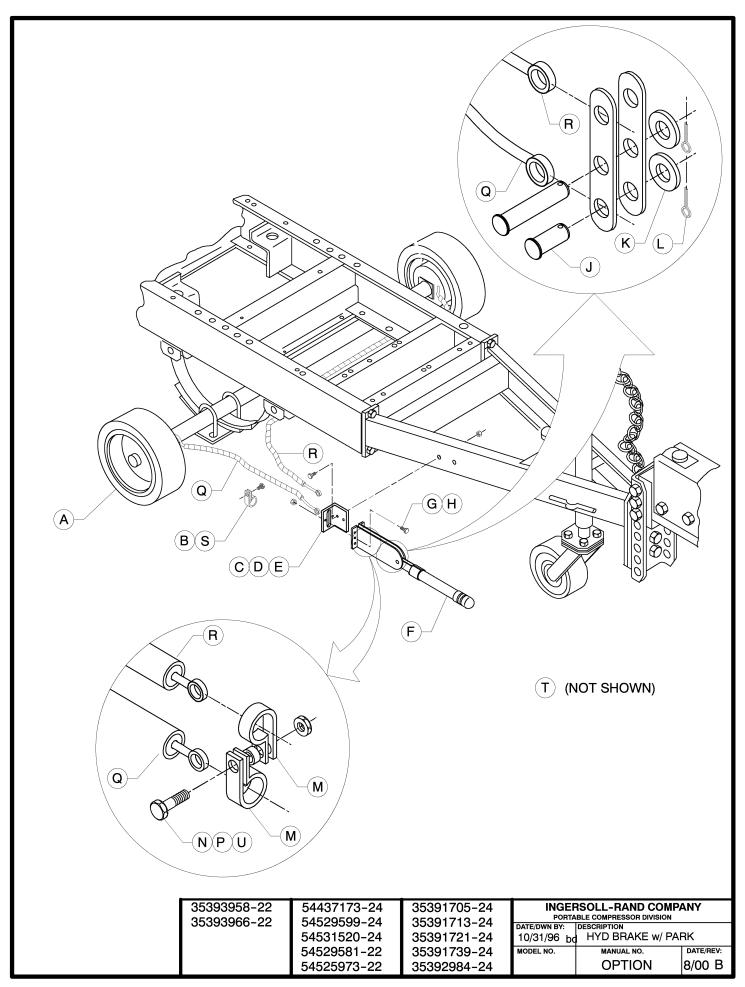
			_		
14371	93958-19	437173-21	353	91705-21	INGE
15205	93966-19	529599-21	252	91713-21	PORT
10230	33300-13	129399-21	333	91713-21	DATE/DWN BY:
15315		531520-21	353	91721-21	10/29/96 b
5005		529581-19	252	91739-21	MODEL NO.
10290		29301-19	333	91/39-21	WODEL NO.
15259		525973-19	353	92984-21	
.0_0		20070 10	- 000	02001 21	



ITEM	C.P.N.	QTY	DESCRIPTION
Α	35356401	2	HOSE, BRAKE 3/16 X 40
В	36881290	1	HOSE, BRAKE 3/8 X 12
С	35356302	5	CLIP, HOSE
D	35356328	1	TEE, 3/16 INVERTED
Е	35356369	2	TUBE, BRAKE 3/16 X 13
F	36758647	1	SUPPORT, HYDRAULIC ACTUATOR
G	35376094	3	SCREW, M16-200
Н	96700885	6	NUT, HEX M16
J	35316611	1	ACTUATOR, HYDRAULIC BRAKE
K	35333673	3	SPACER, HYDRAULIC DRAWBAR
L	95935169	3	SCREW, 1/2-13 X 4
М	95923348	3	NUT, NYLOC 1/2-13
N	35356377	1	TUBING, 3/16 X 18.88
Р	37001252	4	CLAMP, SUPPORT
Q	35356310	5	BRACKET, HOSE MOUNTING
R	35300771	2	SCREW, TAPPING M06-100 X 20
S	36881274	1	HOSE, BRAKE 3/16 X 50
Т	92368687	2	SCREW, TAPPING M06-100 X 14
U	36881399	1	HOSE, BRAKE 3/8 X 24
V	35279025	2	SCREW, TAPPING M08-125 X 20

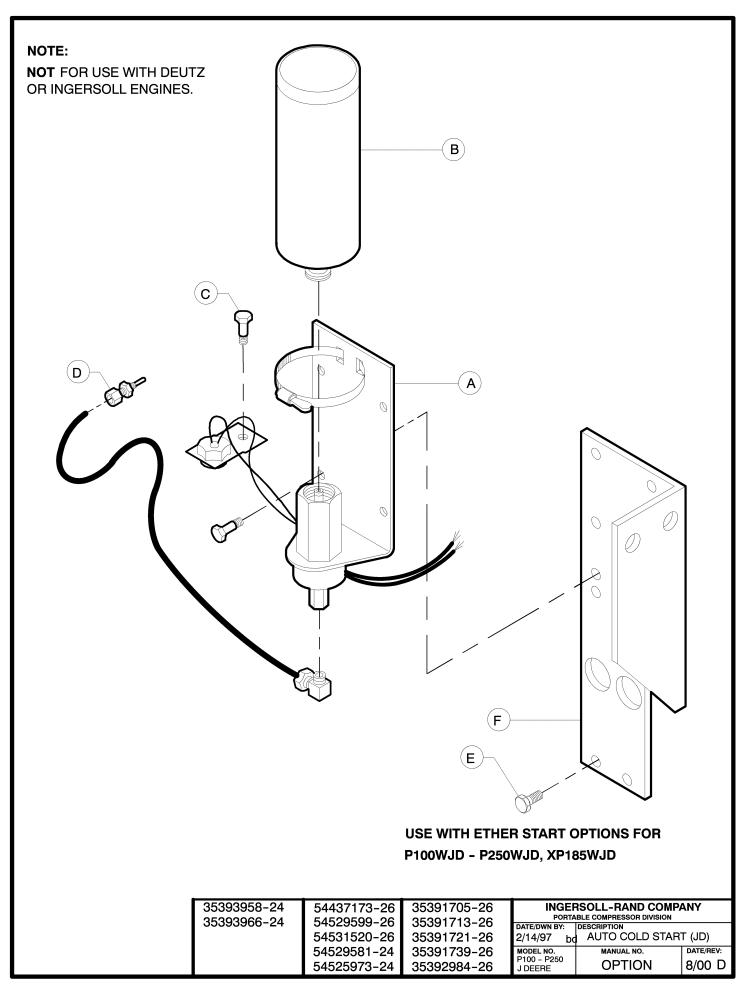
INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DATE/DWN BY: DESCRIPTION
10/29/96 bd HYDRAULIC BRAKE 35393958-21 35391705-23 54437173-23 35393966-21 54529599-23 35391713-23 54531520-23 35391721-23 54529581-21 35391739-23 MODEL NO. MANUAL NO. DATE/REV: **OPTION** 8/00 B 54525973-21 35392984-23



ITEM	C.P.N.	QTY	DESCRIPTION
	00001000		DI INININO OF AD W/ DDAVES
A	36881209	1	RUNNING GEAR W/ BRAKES
В	35134477	1	CLAMP, RUBBER COATED
С	36882009	1	BRAKE LEVER BRACKET
D	36769297	2	SCREW, HEX M10-150 X 35
Е	96701529	2	NUT, HEX M10
F	35370055	1	LEVER, PARKING BRAKE
G	35374834	2	SCREW, HEX M08-125 X 25
Н	96700869	2	NUT, HEX M08
J	36846780	2	PIN, CLEVIS .31 X .75
K	95934998	2	WASHER, FLAT 3/8
L	95928867	2	PIN, COTTER .09
М	35126325	2	CLAMP, CABLE
N	95943668	1	SCREW, HEX 5/16-18 X 1 3/4
Р	35126358	1	SPACER
Q	35517176	1	ASSEMBLY, BRAKE CABLE 78"
R	35594076	1	ASSEMBLY, BRAKE CABLE 117"
S	35300771	1	SCREW, TAPPING M06-100 X 20
Т	35253038	3	CLAMP, RUBBER COATED
U	35252600	1	NUT, LOCKING 5/16-18

35393958-23	54437173-25	35391705-25		RSOLL-RAND COMP	ANY
35393966-23	54529599-25	35391713-25		BLE COMPRESSOR DIVISION DESCRIPTION	
	54531520-25	35391721-25	10/31/96 bo		RK
	54529581-23	35391739-25	MODEL NO.	MANUAL NO.	DATE/REV:
	54525973-23	35392984-25		OPTION	8/00 B



ITEM	C.P.N.	QTY	DESCRIPTION
Α	* 35377266	1	KIT, COLD START
В	36796910	1	CYLINDER, ETHER
С	35252725	1	SCREW, LOCK 3/8-16 X 1/2
D	36889384	1	BUSHING
Е	35279025	2	SCREW, TAPPING M08-125 X 20
F	36883890	1	BRACKET, ETHER FUEL

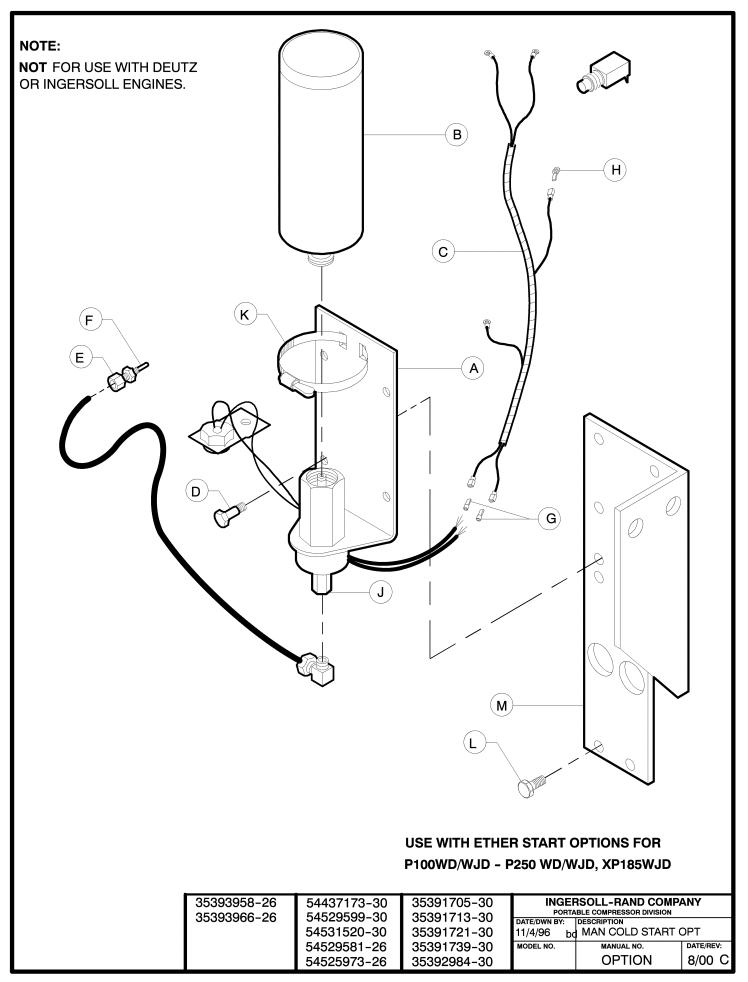
* SEE WIRING SCHEMATIC FOR COLD START KIT

NOTE:

NOT FOR USE WITH DEUTZ OR INGERSOLL ENGINES.

USE WITH ETHER START OPTIONS FOR P100WJD - P250WJD, XP185WJD

35393958-25 35393966-25	54437173-27 54529599-27	35391705-27 35391713-27		RSOLL-RAND COMP. BLE COMPRESSOR DIVISION	ANY
33393900-23	54531520-27		DATE/DWN BY: 2/14/97 bo	DESCRIPTION AUTO COLD STAR	T (JD)
	54529581-25	35391739-27	MODEL NO. P100 - P250	MANUAL NO.	DATE/REV:
	54525973-25	35392984-27	J DEERE	OPTION	8/00 D



ITEM	C.P.N.	QTY	DESCRIPTION	
Α	35367739	1	KIT, COLD START	
В	35112911	1	CYLINDER, ETHER	
С	36842821	1	HARNESS, COLD START	
D	92368687	2	SCREW, HEX M06-100 X 14	
Е	36889384	1	BUSHING	
F	35315027	1	ATOMIZER	
G	35306141	2	TERMINAL, CONNECTOR	
Н	35287572	1	SPLICE, INSULATED	
J	* 35367747	1	VALVE	
K	* 35103506	1	CLAMP	
L	35279025	2	SCREW, TAPPING M08-125 X 20	
М	36883890	1	BRACKET, ETHER FUEL	

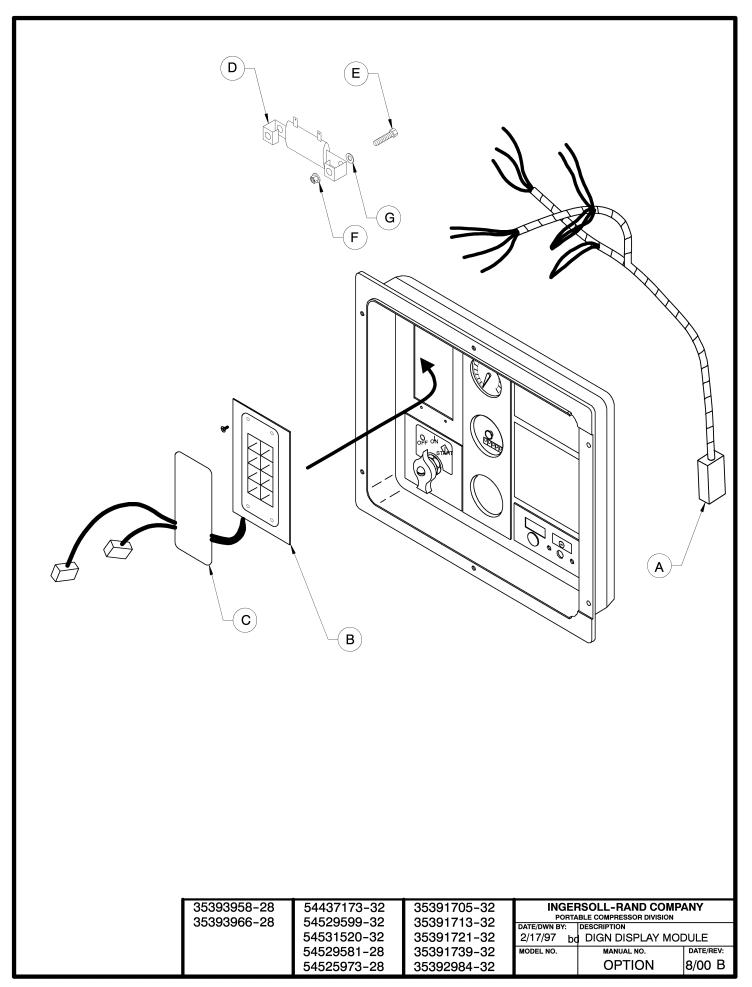
NOTE:

NOT FOR USE WITH DEUTZ OR INGERSOLL ENGINES.

USE WITH ETHER START OPTIONS FOR P100WD/WJD - P250 WD/WJD, XP185WJD

35393958-27	54437173-31	35391705-31		RSOLL-RAND COMP	ANY
35393966-27	54529599-31 54531520-31	35391713-31 35391721-31	DATE/DWN BY: DESCRIPTION 11/4/96 hd MAN COLD START OPT		
	54529581-27	35391721-31	11/4/96 bo	MANUAL NO.	DATE/REV:
	54525973-27	35392984-31		OPTION	8/00 C

^{*} INCLUDED IN COLD START KIT

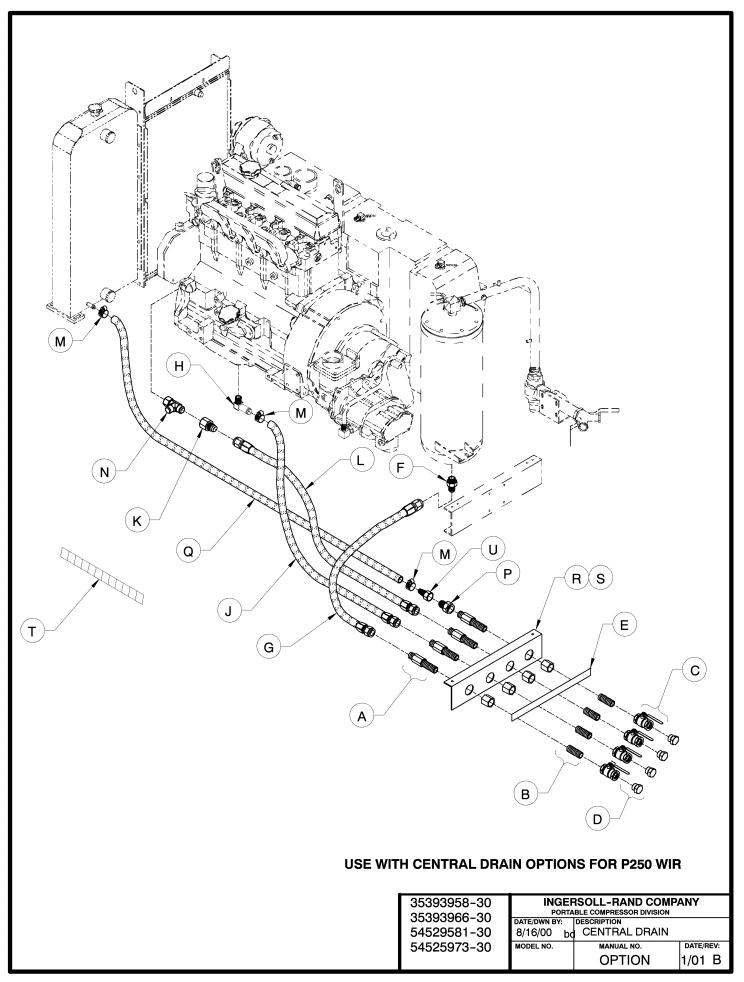


ITEM	C.P.N.	QTY	DESCRIPTION
Α	36885739	1	HARNESS, OPTION
	54484324	1	HARNESS, OPTION (FOR IR ENGINES ONLY)
В	36882033	1	MODULE, DIAGNOSTIC
С	36879674	1	DECAL, DIAGNOSTIC
D	54488416	1	RESISTOR (FOR IR ENGINES ONLY)
Ε	36842102	2	SCREW, HEX 10-32 X 1 (FOR IR ENGINES ONLY)
F	95928800	2	NUT, HEX LOCK 10-32 (FOR IR ENGINES ONLY)
G	95954251	2	WASHER, FLAT (FOR IR ENGINES ONLY)

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DATE/DWN BY: DESCRIPTION

2/17/97 bd DIGN DISPLAY MODULE 35393958-29 54437173-33 35391705-33 35393966-29 54529599-33 35391713-33 54531520-33 35391721-33 54529581-29 35391739-33 MODEL NO. MANUAL NO. DATE/REV: 54525973-29 **OPTION** 8/00 B 35392984-33

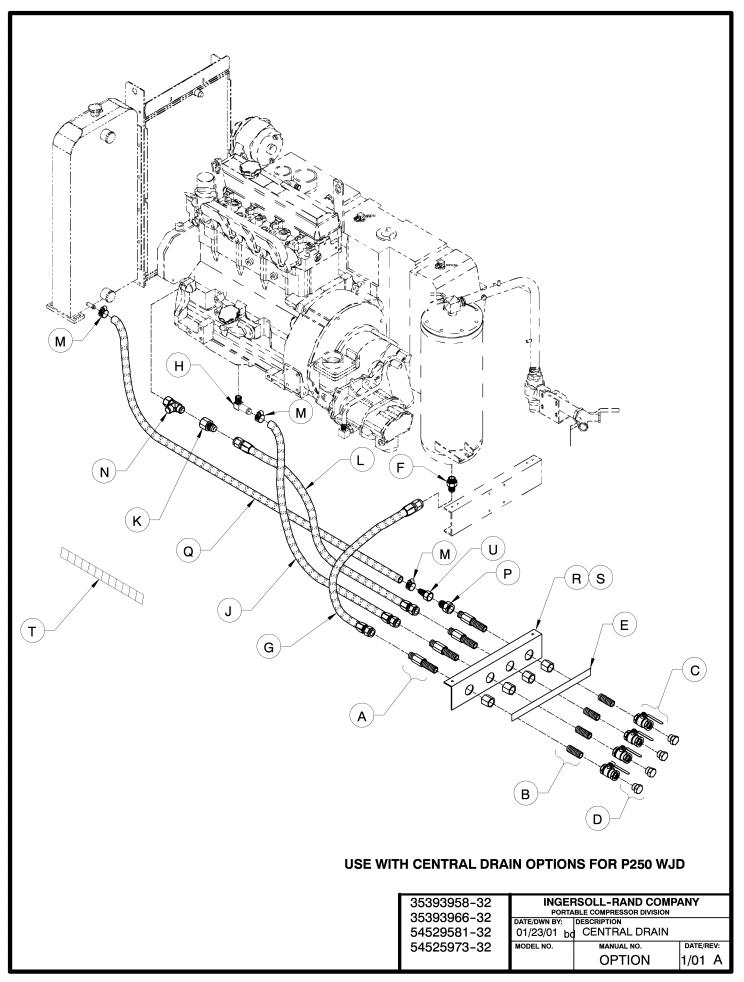


ITEM	C.P.N.	QTY	DESCRIPTION
		_	
A	35287747	4	BULKHEAD, FITTING
В	95928040	4	NIPPLE, CLOSE 3/4
С	36777399	4	VALVE, BALL 3/4 T-HANDLE
D	95947149	4	PLUG, HEX CTR SINK
Е	54629977	1	DECAL, FLUID DRAIN
F	35295880	1	CONNECTOR, SAE 1.06-12 JIC
G	35330844	1	HOSE
Н	54534243	1	ELBOW, 90□ M20-1.5 SAE
J	36921641	1	HOSE
K	35358050	1	ADAPTER, -16 TO -12
L	35323815	1	HOSE
М	95220844	3	CLAMP, HOSE 9/16
N	35295641	1	TEE, SWIVEL NUT -16 JIC
Р	35365774	1	REDUCER, TUBE
Q	36892479	1	HOSE
R	36884120	1	SUPPORT, CENTRAL DRAIN
s	96702444	4	SCREW, HEX M12-1.75 X 40
Т	* 35291236	36"	COIL, PLASTIC
U	95339552	1	FITTING, -8 HOSE

^{*} CUT TO LENGTH TO PROTECT HOSES

USE WITH CENTRAL DRAIN OPTIONS FOR P250 WIR

35393958-31		RSOLL-RAND COMP BBLE COMPRESSOR DIVISION	ANY
35393966-31 54529581-31	8/16/00 bo	DESCRIPTION CENTRAL DRAIN	
54525973-31	MODEL NO.	MANUAL NO. OPTION	1/01 B

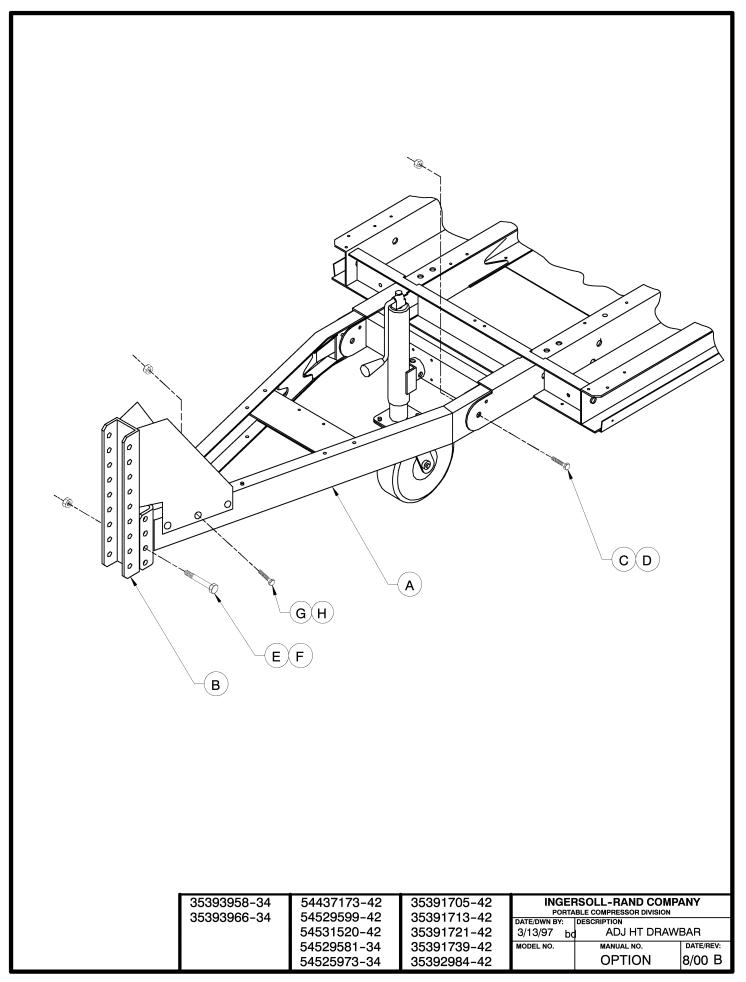


ITEM	C.P.N.	QTY	DESCRIPTION
A	35287747	4	BULKHEAD, FITTING
В	95928040	4	NIPPLE, CLOSE 3/4
С	36777399	4	VALVE, BALL 3/4 T-HANDLE
D	95947149	4	PLUG, HEX CTR SINK
E	54629977	1	DECAL, FLUID DRAIN
F	35295880	1	CONNECTOR, SAE 1.06-12 JIC
G	35295807	1	HOSE
Н	36883395	1	ELBOW, 90∏ M18-1.5 SAE
J	36921641	1	HOSE
K	35358050	1	ADAPTER, -16 TO -12
L	35323815	1	HOSE
М	95220844	3	CLAMP, HOSE 9/16
N	35295641	1	TEE, SWIVEL NUT -16 JIC
Р	35365774	1	REDUCER, TUBE
Q	36892479	70"	HOSE
R	36884120	1	SUPPORT, CENTRAL DRAIN
S	96702444	4	SCREW, HEX M12-1.75 X 40
Т	* 35291236	36"	COIL, PLASTIC
U	95339552	1	FITTING, -8 HOSE

^{*} CUT TO LENGTH TO PROTECT HOSES

USE WITH CENTRAL DRAIN OPTIONS FOR P250 WJD

	35393958-33 35393966-33	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION		
	54529581-33	DATE/DWN BY: 01/23/01 bo	DESCRIPTION CENTRAL DRAIN	
ı	54525973-33	MODEL NO.	MANUAL NO.	DATE/REV:
ı			OPTION	1/01 A

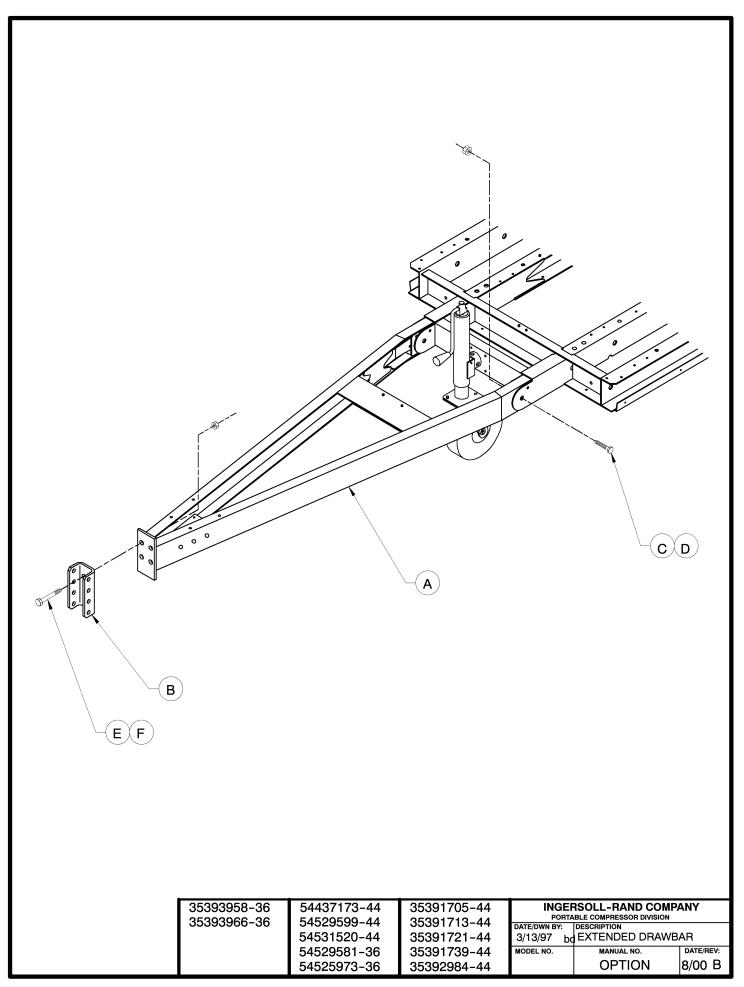


ITEM	C.P.N.	QTY	DESCRIPTION
A	36886364	1	DRAWBAR
В	36882660	1	LUNETTE, ADJ HT
С	35290113	2	SCREW, HEX M16-2.00 X 75
D	96704630	2	NUT, NYLOCK M16
Е	35376094	2	SCREW, HEX M16-2.00 X 12
F	96700885	2	NUT, HEX M16
G	36879492	6	SCREW, HEX FLANGE M12-1.75 X 25
Н	36879203	6	NUT, HEX FLANGE M12

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DATE/DWN BY: DESCRIPTION

3/13/97 bd ADJ HT DRAWBAR 35393958-35 54437173-43 35391705-43 35393966-35 54529599-43 35391713-43 54531520-43 35391721-43 54529581-35 MODEL NO. MANUAL NO. DATE/REV: 35391739-43 **OPTION** 8/00 B 54525973-35 35392984-43



ITEM	C.P.N.	QTY	DESCRIPTION
Α	36887032	1	DRAWBAR, EXTENDED
		'	,
В	36757284	1	CHANNEL, PINTEL MOUNTING
С	35290113	2	SCREW, HEX M16-2.00 X 75
D	96704630	2	NUT, NYLOCK M16
Е	39179072	4	SCREW, HEX M16-2.00 X 50
F	36879211	4	NUT, HEX FLANGE M16

35393958-37 35393966-37

 54437173-45
 35391705-45

 54529599-45
 35391713-45

 54531520-45
 35391721-45

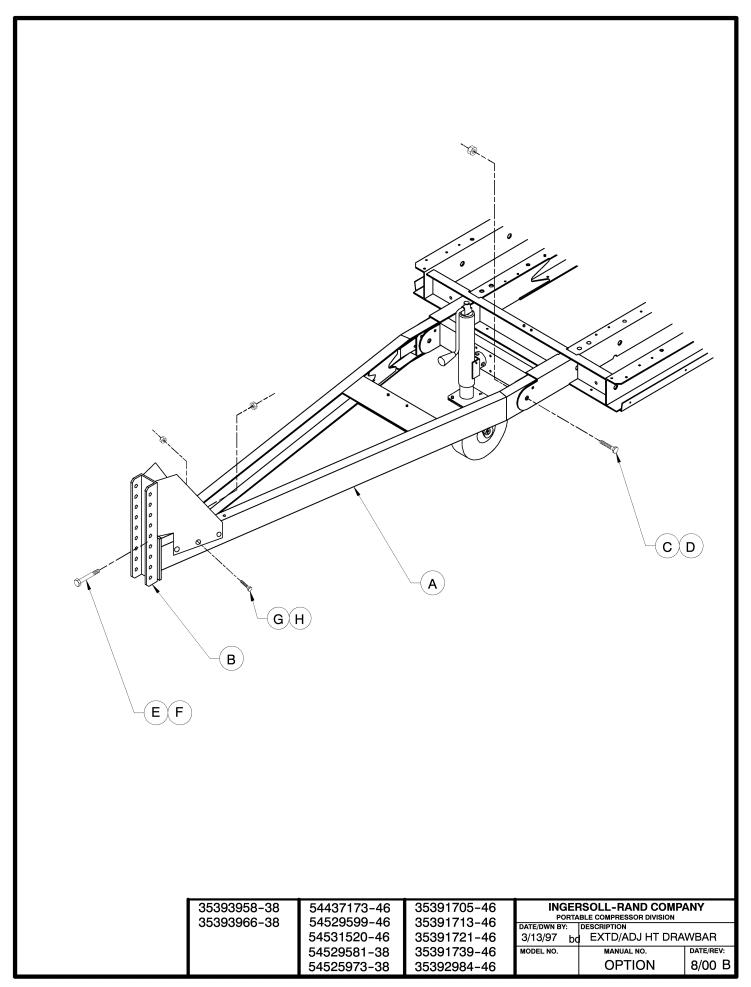
 54529581-37
 35391739-45

 54525973-37
 35392984-45

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DATE/DWN BY: DESCRIPTION
3/13/97 bd EXTENDED DRAWBAR

MODEL NO. MANUAL NO.
OPTION 8/00 B

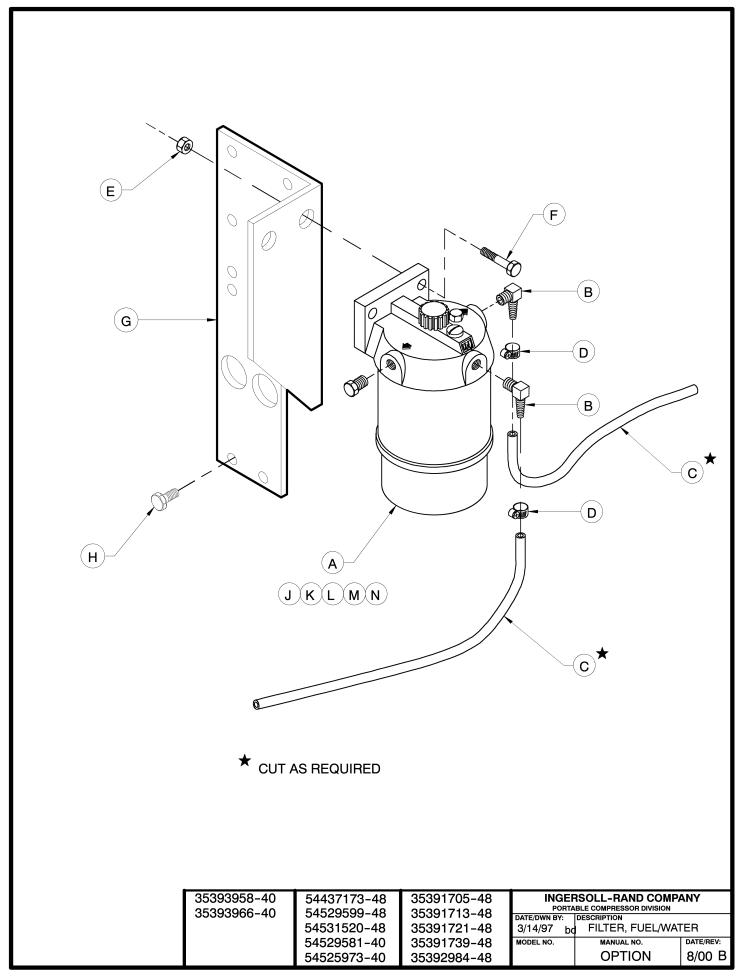


ITEM	C.P.N.	QTY	DESCRIPTION
Α	36887032	1	DRAWBAR, EXTENDED
В	36882652	1	LUNETTE, ADJ HT
С	35290113	2	SCREW, HEX M16-2.00 X 75
D	96704630	2	NUT, NYLOCK M16
Е	39179072	4	SCREW, HEX M16-2.00 X 50
F	36879211	4	NUT, HEX FLANGE M16
G	36879492	6	SCREW, HEX FLANGE M12-1.75 X 25
Н	36879203	6	NUT, HEX FLANGE M12

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DATE/DWN BY: DESCRIPTION

3/13/97 bd EXTD/ADJ HT DRAWBAR 35393958-39 54437173-47 35391705-47 35393966-39 54529599-47 35391713-47 54531520-47 35391721-47 54529581-39 MODEL NO. MANUAL NO. DATE/REV: 35391739-47 **OPTION** 8/00 B 54525973-39 35392984-47

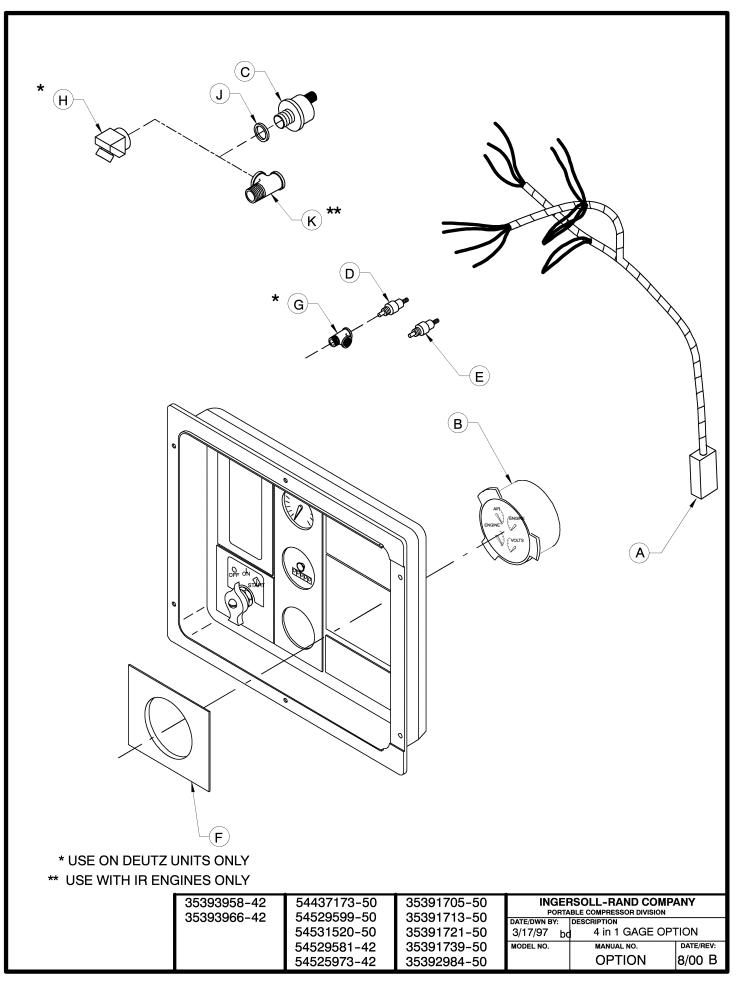


ITEM	C.P.N.	QTY	DESCRIPTION
	-		
Α	35858786	1	FILTER, FUEL/WATER SEPARATOR
В	35378538	2	ELBOW, BARBED
С	35363498	* 22"	HOSE, 5/16 FUEL
D	35296342	2	CLAMP
Е	35252600	2	NUT, LOCK 5/16-18
F	35321108	2	SCREW, LOCK 5/16-18 X 1
G	36883890	1	BRACKET, ETHER/FUEL FILTER
Н	35279025	2	SCREW, TAPPING M08-1.25 X 20
J	35358332	**	ASSEMBLY, ELEMENT
K	35358340	**	BOWL
L	35358357	**	HEAD
М	35358365	**	CAP, PRIMER PUMP
N	35358373	**	PULG, DRAIN

35393958-41	54437173-49 54529599-49	35391705-49		RSOLL-RAND COMI BLE COMPRESSOR DIVISION	PANY
35393966-41	54531520-49	35391713-49 35391721-49	DATE/DWN BY: 3/14/97 bo	DESCRIPTION FILTER, FUEL/WA	ATER
	54529581-41	35391739-49	MODEL NO.	MANUAL NO.	DATE/REV:
	54525973-41	35392984-49		OPTION	8/00 B

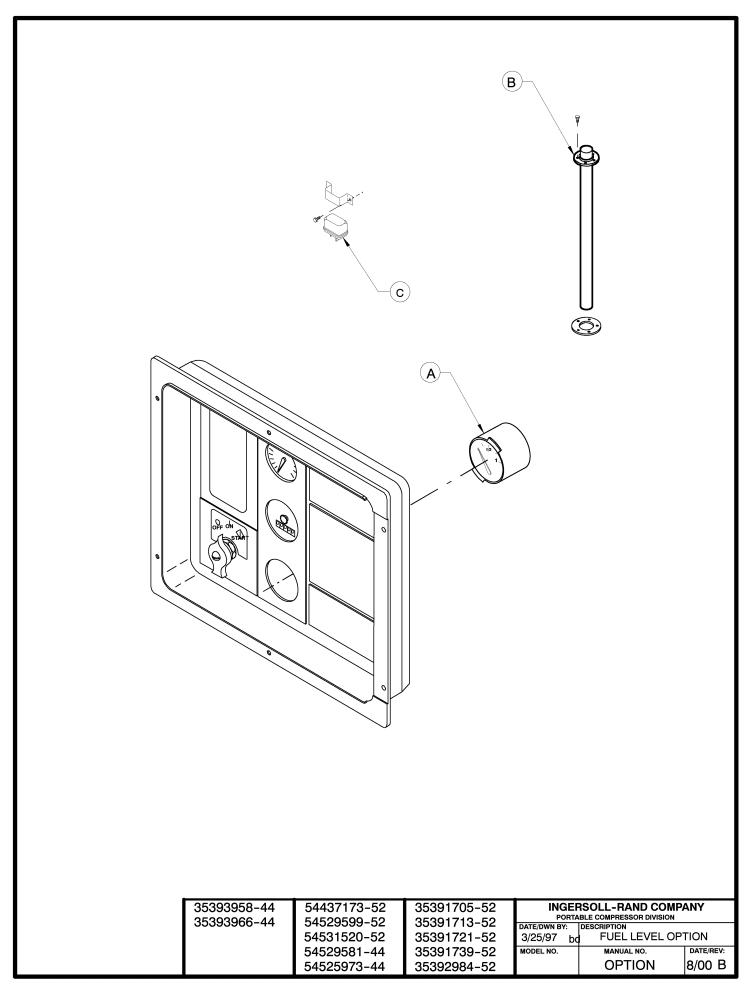
^{*} CUT AS REQUIRED

^{**} INCLUDED IN FUEL / WATER SEPARATOR FILTER 35858786

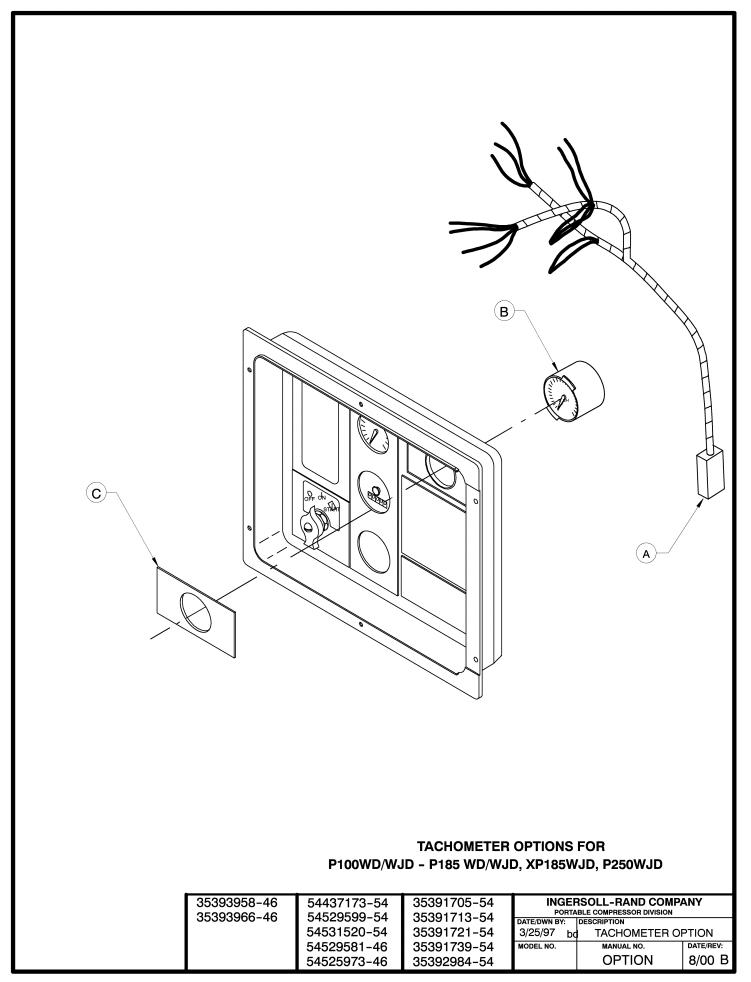


ITEM	C.P.N.	QTY	DESCRIPTION
	54500404	<u> </u>	LIADNESS OPTION (ID DEUTZ)
Α	54599121	1	HARNESS, OPTION (JD DEUTZ)
	54599113	1	HARNESS, OPTION (IR)
В	36879682	1	GAGE, 4 in 1
С	36870608	1	SENDER, OIL PRESSURE
D	35604180	1	SENDER, WATER TEMPERATURE (3 CYL JD & IR ENGINES)
	35372457	1	SENDER, WATER TEMPERATURE (4 CYL JD)
	35367218	1	SENDER, WATER TEMPERATURE (DEUTZ)
Е	54593843	1	SENDER, CPRSR AIR TEMP
F	36879716	1	PANEL, GAGE BEZEL
G	36796571	1	TEE (DEUTZ)
Н	95942702	1	ELBOW, ST NPT 1/8 X 45□ (DEUTZ)
J	36879716	1	O-RING
K	35278571	1	TEE (IR)

35393958-43 35393966-43	54437173-51 54529599-51	35391705-51 35391713-51		RSOLL-RAND COMPA BLE COMPRESSOR DIVISION	ANY
33393900-43	54531520-51	35391713-51	DATE/DWN BY: 3/17/97 bo	DESCRIPTION 4 in 1 GAGE OPT	ΓΙΟΝ
	54529581-43	35391739-51	MODEL NO.	MANUAL NO.	DATE/REV:
	54525973-43	35392984-51		OPTION	1/01 C

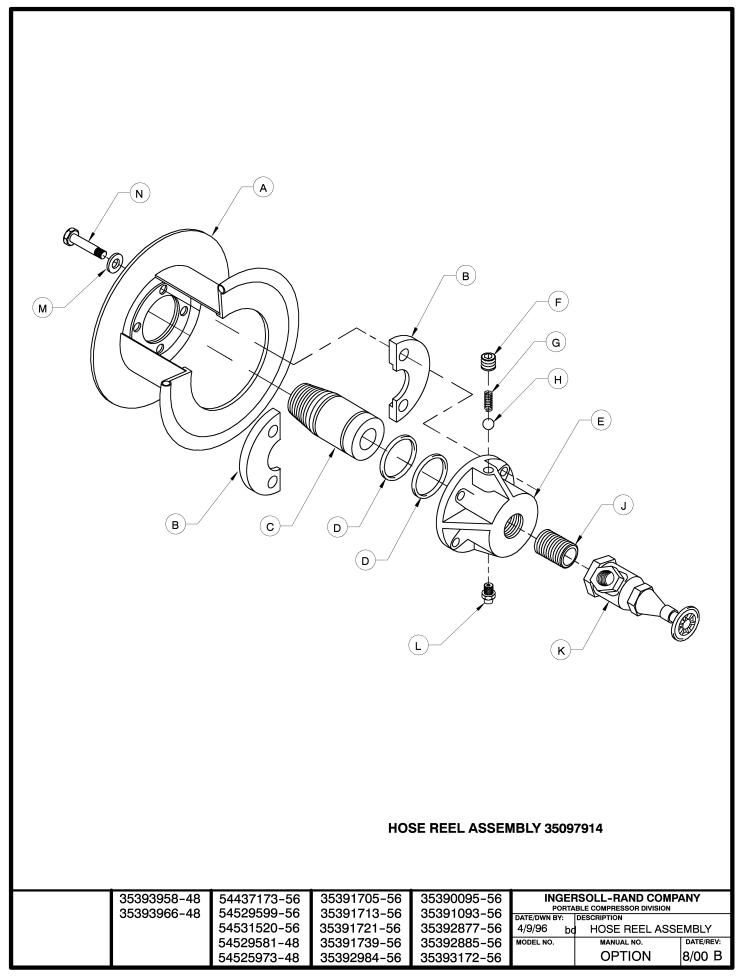


ITEM	CDN	ΩTV	DESCI	PIDTION				
A A	C.P.N. 36879690	QTY 1		RIPTION E, FUEL LEVEL				
В	36882611	1		DER, FUEL LEVEL				
С	36856979	1		Y, FUEL SHUTDO\	VN			
				1	<u> </u>	<u> </u>		
		353939 353939		54437173-53 54529599-53	35391705-53 35391713-53	INGEF PORTA DATE/DWN BY:	RSOLL-RAND CO	MPANY ON
			· -	54531520-53	35391721-53	3/25/97 bo		
				54529581-45 54525973-45	35391739-53 35392984-53	MODEL NO.	MANUAL NO. OPTION	8/00 B



TACHOMETER OPTIONS FOR P100WD/WJD - P185 WD/WJD, XP185WJD, P250WJD

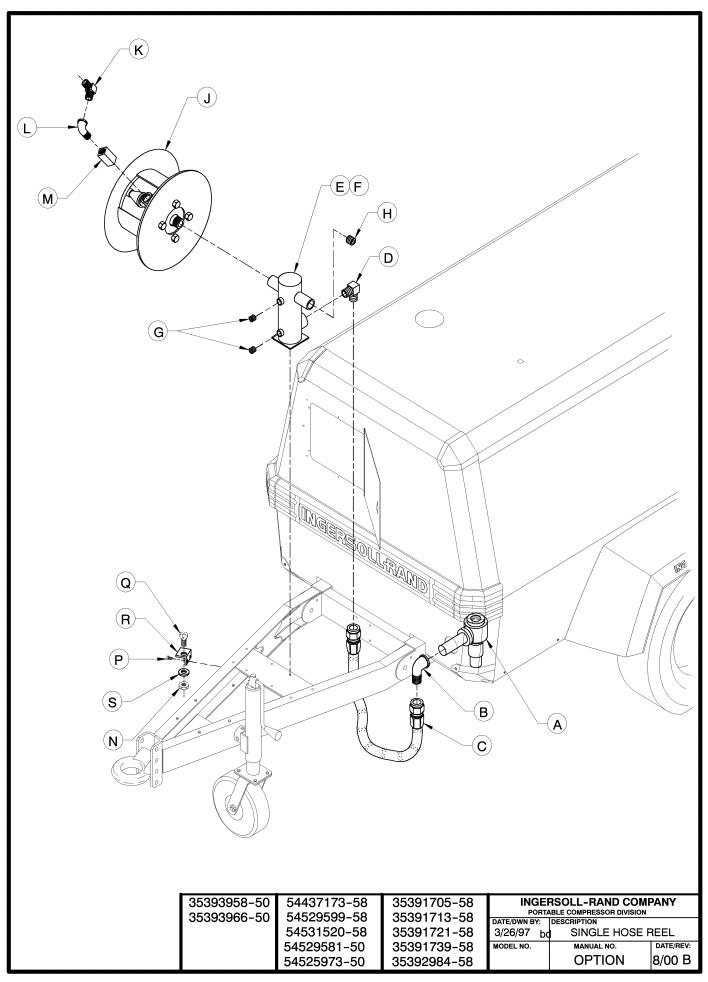
35393958-47 35393966-47	54437173-55 54529599-55	35391705-55 35391713-55		RSOLL-RAND COMPA BLE COMPRESSOR DIVISION	YNA
33393900-47	54531520-55	35391713-55		DESCRIPTION TACHOMETER OPT	ION
	54529581-47	35391739-55	MODEL NO.	MANUAL NO.	DATE/REV:
	54525973-47	35392984-55		OPTION	8/00 B



ITEM	C.P.N.	QTY	DESCRIPTION
Α	36765212	1	HOSE REEL
В	36765188	2	BEARING COVER
С	36765196	1	BEARING SHAFT
D	95358297	2	O-RING
E	36762706	1	HOSE REEL BEARING
F	95928222	1	PLUG
G	30671242	1	SPRING
Н	35221902	1	BALL, RETARD
J	95928040	1	NIPPLE
K	95072971	1	GLOBE VALVE
L	35221894	1	FITTING, LUBE 1/8
М	95937413	4	WASHER, LOCK 3/8
N	95934584	4	SCREW, HEX 3/8-16 X 1□

HOSE REEL ASSEMBLY 35097914

3	35393958-49	54437173-57	35391705-57	35390095-57		RSOLL-RAND COMP	ANY
3	35393966-49	54529599-57	35391713-57	35391093-57		BLE COMPRESSOR DIVISION	
		54531520-57	35391721-57	35392877-57		DESCRIPTION HOSE REEL ASSEM	ADIV
					4/9/96 bo	HUSE REEL ASSER	
		54529581-49	35391739-57	35392885-57	MODEL NO.	MANUAL NO.	DATE/REV:
		54525973-49	35392984-57	35393172-57		OPTION	8/00 B

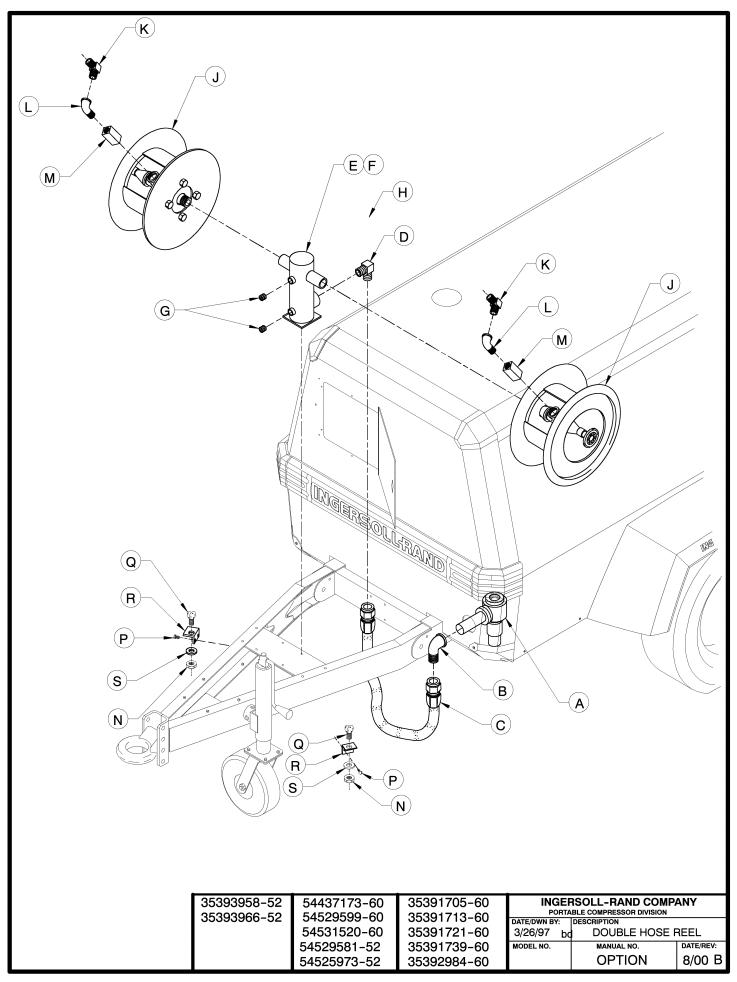


ITEM	C.P.N.	QTY	DESCRIPTION
			VALVE MINIMUM PRESSURE OF SECTION
Α	36776219	1	VALVE, MINIMUM PRESSURE CHECK
В	95286530	1	ELBOW, 90□
С	35117480	1	HOSE
D	95219861	1	ELBOW, TUBE JIC
Е	36755460	1	MANIFOLD, HOSE REEL
F	35374834	4	SCREW, HEX M08-1.25 X 25
G	95947149	2	PLUG, HEX CTSK 3/4
Н	95928248	1	PLUG, HEX CTSK 1□
J	35097914	1	ASSEMBLY, HOSE REEL
K	95928198	1	ELBOW, STREET 3/4 X 45□
L	95928172	1	ELBOW, STREET 3/4 X 90□
М	35364397	1	VALVE, CHECK
N	35153972	2	CAP, HOSE LOCK
Р	92368687	1	SCREW, TAPPING M06-100 X 14
Q	35221910	1	LOCK , COUPLING HOSE
R	35296748	1	BRACKET, HOSE REEL LOCK
S	95928321	2	WASHER, FLAT 7/8

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DATE/DWN BY: DESCRIPTION

3/26/97 bd SINGLE HOSE REEL 35393958-51 54437173-59 35391705-59 35393966-51 54529599-59 35391713-59 54531520-59 35391721-59 bd 35391739-59 MODEL NO. MANUAL NO. DATE/REV: 54529581-51 **OPTION** 8/00 B 5452597<u>3-51</u> 35392984-59

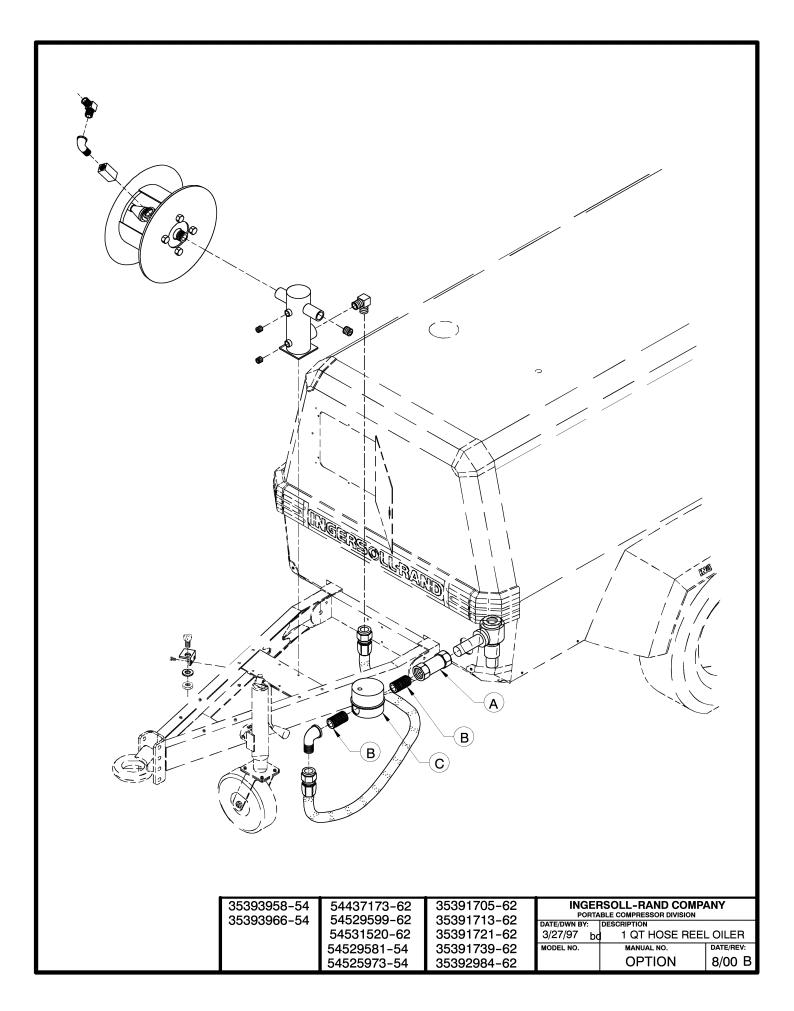


ITEM	C.P.N.	QTY	DESCRIPTION
Α	36776219	1	VALVE, MINIMUM PRESSURE CHECK
В	95286530	1	ELBOW, 90
C	35117480	1	HOSE
D	95219861	1	ELBOW, TUBE JIC
Е	36755460	1	MANIFOLD, HOSE REEL
F	35374834	4	SCREW, HEX M08-1.25 X 25
G	95947149	2	PLUG, HEX CTSK 3/4
Н	95928321	4	WASHER, FLAT 7/8
J	35097914	2	ASSEMBLY, HOSE REEL
K	95928198	2	ELBOW, STREET 3/4 X 45□
L	95928172	2	ELBOW, STREET 3/4 X 90□
М	35364397	2	VALVE, CHECK
N	35153972	4	CAP, HOSE LOCK
Р	92368687	2	SCREW, TAPPING M06-100 X 14
Q	35221910	2	LOCK , COUPLING HOSE
R	35296748	2	BRACKET, HOSE REEL LOCK

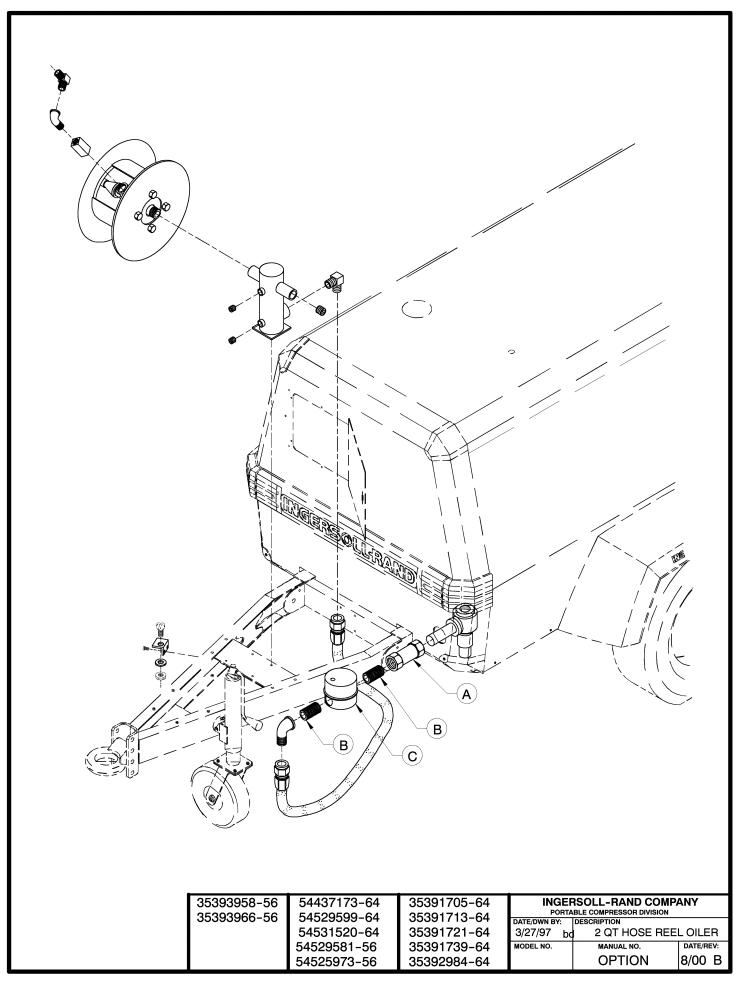
INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DATE/DWN BY: DESCRIPTION

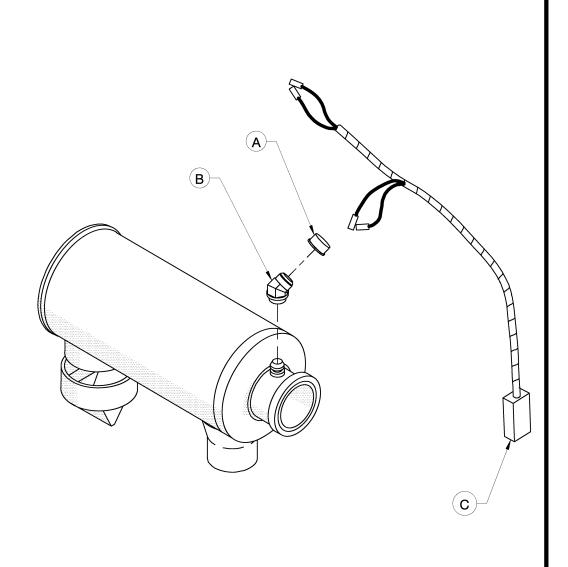
3/26/97 bd DOUBLE HOSE REEL 35393958-53 54437173-61 35391705-61 35393966-53 54529599-61 35391713-61 54531520-61 35391721-61 bd 54529581-53 MODEL NO. MANUAL NO. DATE/REV: 35391739-61 **OPTION** 8/00 B 54525973-53 35392984-61



ITEM	C.P.N.	QTY I	DESCRIPTION				
В	95941373 95953600 35255025	2	UNION, 1 1/4 NPT NIPPLE, 1 1/4 X 2 LUBRICATOR, 1 QT.				
		3539395	58-55 Î 54437173-63	35391705-63	INGER	SOLL-RAND COMF	PANY
		3539396	545295973-55 54525973-55	35391703-63 35391713-63 35391721-63 35391739-63 35392984-63	PORTAI	BLE COMPRESSOR DIVISION DESCRIPTION	



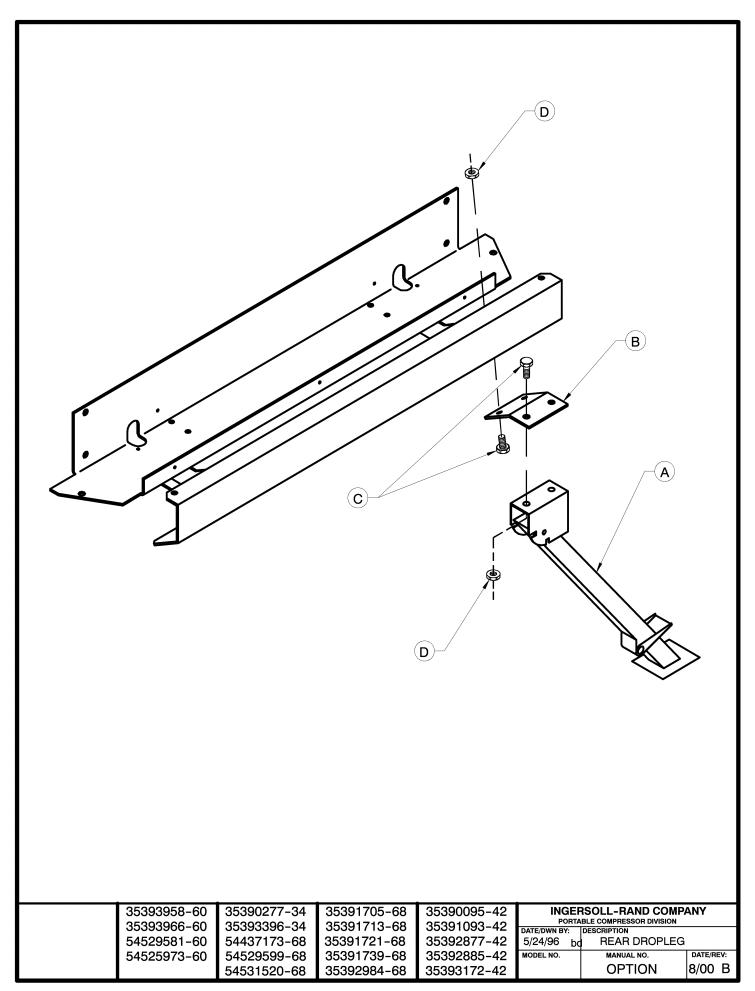
ITEM	C.P.N.	QTY	DESCR	RIPTION				
Α	95941373	1	LINION	N, 1 1/4 NPT				
В	95953600	2		E, 1 1/4 X 2				
C	35356252	1		CATOR, 2 QT.				
						•		
		353939		54437173-65	35391705-65	PORTA	RSOLL-RAND COMPA BLE COMPRESSOR DIVISION	ANY
		353939	966-57	54529599-65 54531520-65	35391713-65 35391721-65	DATE/DWN BY: 3/27/97 bo	DESCRIPTION	OILFR
				54529581-57	35391739-65	MODEL NO.	MANUAL NO.	DATE/REV:
				54525973-57	35392984-65		OPTION	8/00 B
	ل 35303066 (2/01)			- 244 -				



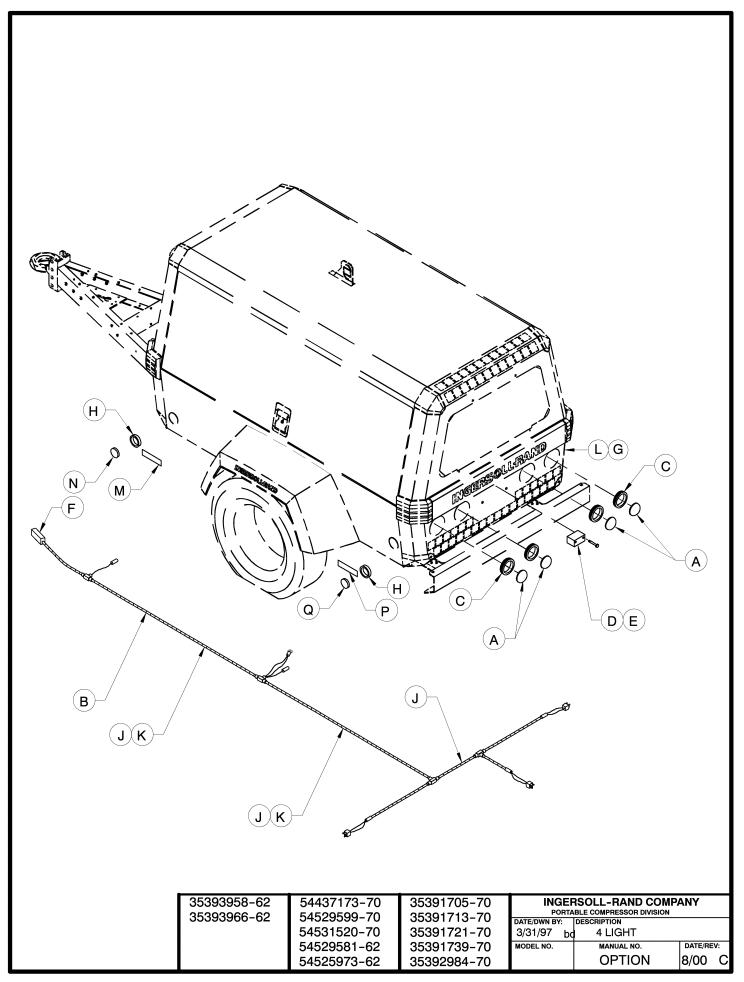
ELECTRIC AIR FILTER MAINTANCE INDICATOR OPTIONS

35393958-58 35393966-58	35393065-18 35393628-18	35391705-66 35391713-66	35390095-66 35391093-66		RSOLL-RAND COMPA BLE COMPRESSOR DIVISION	ANY
54529581-58	54437173-66	35391713-66			DESCRIPTION ELECT AIR FLTR MA	AINT IND
54525973-58	54529599-66 54531520-66	35391739-66 35392984-66	35392885-66 35393172-66	MODEL NO.	MANUAL NO. OPTION	B/00 B

ITEM	C.P.N.	QTY	DESCRIPTION
A B C	36847838 95956199 36842839	2 2 1	SWITCH, FILTER INDICATOR ELBOW, 45 1/8NPT HARNESS, AFMI
	333.233	·	
			ELECTRIC AIR FILTER MAINTANCE INDICATOR OPTIONS
	3539395 3539396 5452958	6-59	35393065-19 35391705-67 35390095-67 INGERSOLL-RAND COMPANY 900778BLE COMPRESSOR DIVISION DATE:/DWN BY: DESCRIPTION 035391721-67 35392877-67 3522/96 bd ELECT AIR FLTR MAINT IND
	5452597 5452597	3-59	54437173-67 35391721-67 35392877-67 3/22/96 bd ELECT AIR FLTR MAINT IND 54529599-67 35391739-67 35392885-67 MODEL NO. MANUAL NO. DATE/REV: 54531520-67 35392984-67 35393172-67 OPTION 8/00 B



ITEM C	.P.N.	QTY	DESCRIPTIO	N				
A 36 B 36 C 35	6.P.N. 6726586 6778124 6252493 6145077	1 I	DESCRIPTION DROPLEG BRACKET, DROF SCREW, 3/8-16) NUT, LOCK WAS	PLEG X 3/4	16			
	353938 353938 545298 545258	966-61 581-61	35390277-35 35393396-35 54437173-69 54529599-69 54531520-69	35391705-69 35391713-69 35391721-69 35391739-69 35392984-69	35390095-43 35391093-43 35392877-43 35392885-43 35393172-43	PORTA	RSOLL-RAND COM BLE COMPRESSOR DIVISION DESCRIPTION REAR DROPLE MANUAL NO. OPTION	

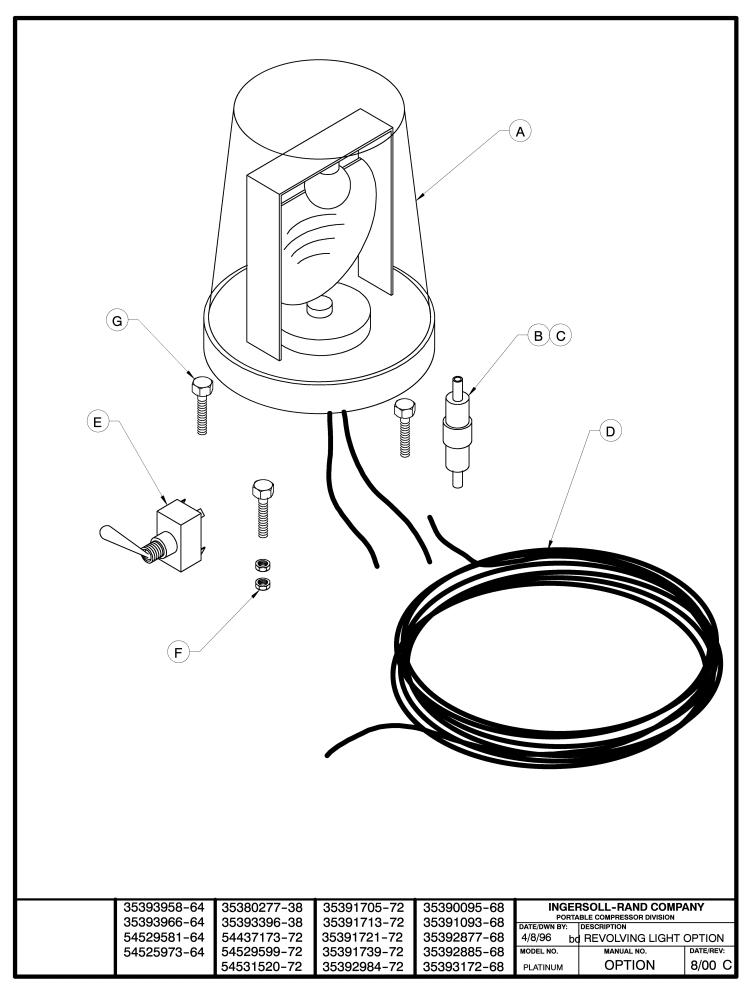


ITEM	C.P.N.	QTY	DESCRIPTION
Α	36788081	4	TAIL LIGHT
В	36893345	1	HARNESS, TAIL LIGHT
С	36787968	4	GROMMET
D	36881910	1	LIGHT, LICENSE PLATE
Е	36782837	2	SCREW, SHEET METAL
F	92368687	2	SCREW, TAPPING M06-1.00 X 14
G	36797652	4	SCREW, TAPPING M06-1.00 X 12
Н	36894616	2	REFLECTOR, AMBER
J	35253038	5	CLAMP, 3/8
K	35279025	2	SCREW, HEX M08-1.25 X 20
L	36889491	1	CAP, REAR END
	54529367	1	CAP, REAR END (GALVANNEAL)
М	36893634	4	GROMMET, CLEARANCE LIGHT
N	35367051	2	LIGHT, YELLOW CLEARANCE
Р	35367044	2	LIGHT, RED CLEARANCE
Q	36894608	2	REFLECTOR, RED

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

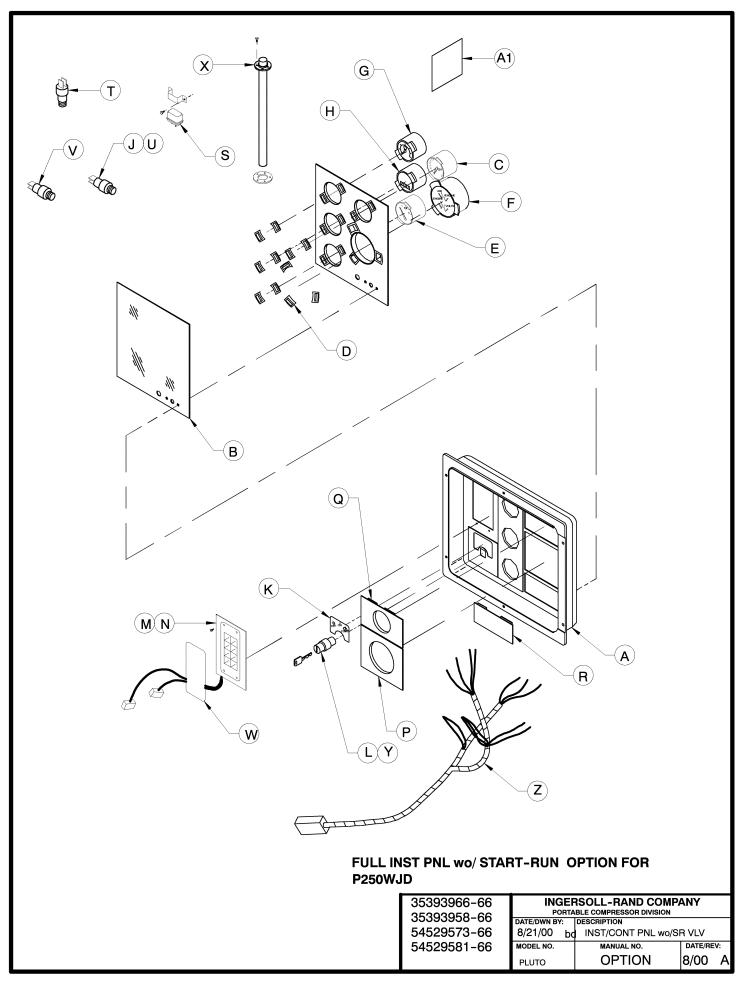
DATE/DWN BY: DESCRIPTION

3/31/97 bd 4 LIGHT 35393958-63 54437173-71 35391705-71 35393966-63 54529599-71 35391713-71 54531520-71 35391721-71 54529581-63 35391739-71 MODEL NO. MANUAL NO. DATE/REV: **OPTION** 8/00 D 54525973-63 35392984-71



ITEM	C.P.N.	QTY	DESCRIPTION	
Α	35366111	1	LIGHT, AMBER FLASHING	
В	35316645	1	FUSEHOLDER	
С	35298041	1	FUSE, 20 AMP	
D	35124114	120"	WIRE, 14 GA.	
Ε	35337435	1	SWITCH, TOGGLE	
F	35265388	6	NUT, LOCK 10-24	
G	95163473	3	SCREW, HEX 10-24 X 1.25	

35393958-65	35380277-39	35391705-73	35390095-69		RSOLL-RAND COMPA	ANY
35393966-65	35393396-39	35391713-73	35391093-69		BLE COMPRESSOR DIVISION DESCRIPTION	
54529581-65	54437173-73	35391721-73	35392877-69		REVOLVING LIGHT	OPTION
54525973-65	54529599-73	35391739-73	35392885-69	MODEL NO.	MANUAL NO.	DATE/REV:
	54531520-73	35392984-73	35393172-69		OPTION	8/00 C

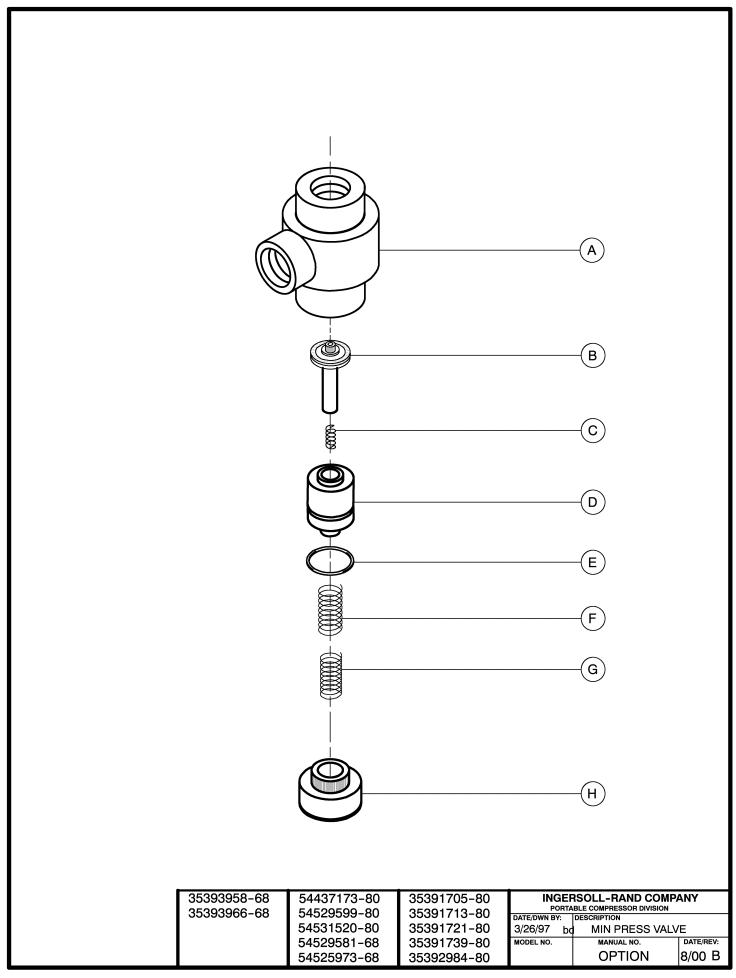


ITEM	C.P.N.	QTY	DESCRIPTION
Α	36884492	1	RECESSED FRAME ASSEMBLY
В	35390368	1	PANEL, ACRYLIC
C	36879740	1	TACHOMETER (JD)
D	36880730	11	CLIP, GAUGE RETAINING
E	36879690	1	GAUGE, FUEL LEVEL
F	36879682	1	GAUGE, 4 in 1
Ğ	36879898	1	GAUGE, 150 PSI PRESSURE
H	36879880	1	HOURMETER
J	35278571	1	O-RING
K	36879971	1	DECAL, SWITCH
L	36884211	1	SWITCH, IGNITION
М	36882033	1	ASSEMBLY, WARNING MODULE
N	35390400	4	SCREW, #6 X 3/8
Р	36879716	1	PANEL, 3 3/8 BEZEL
Q	36879914	1	PANEL, 2 1/16 BEZEL
R	35390327	1	PANEL, SWITCH BEZEL
S	36856979	1	RELAY, FUEL SHUTDOWN
Т	54593843	1	SENDER, DISCHARGE TEMPERATURE
U	35372457	1	SENDER, ENGINE TEMPERATURE
V	36780608	1	SENDER, OIL PRESSURE
W	36879674	1	LABEL, WANING MODULE
Х	36882611	1	SENDER, FUEL LEVEL
Υ	36884229	1	KEY
Z	54599121	1	HARNESS, ENGINE A/E (JD)
	54599113	1	HARNESS, ENGINE A/E (IR)
A1	54587936	1	DECAL, OPT WIRING (JD)
l	54598040	1	DECAL, OPT WIRING (IR)
l			

FULL INST PNL wo/ START-RUN OPTION FOR P250WJD

35393966-67 35393958-67		INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
54529573-67	DATE/DWN BY: 8/21/00 bo	DESCRIPTION INST/CONT PNL wo/SI	R VLV			
54529581-67	MODEL NO.	MANUAL NO.	DATE/REV:			
	PLUTO	OPTION	1/01 B			

^{*} USED ON DEUTZ UNITS ONLY



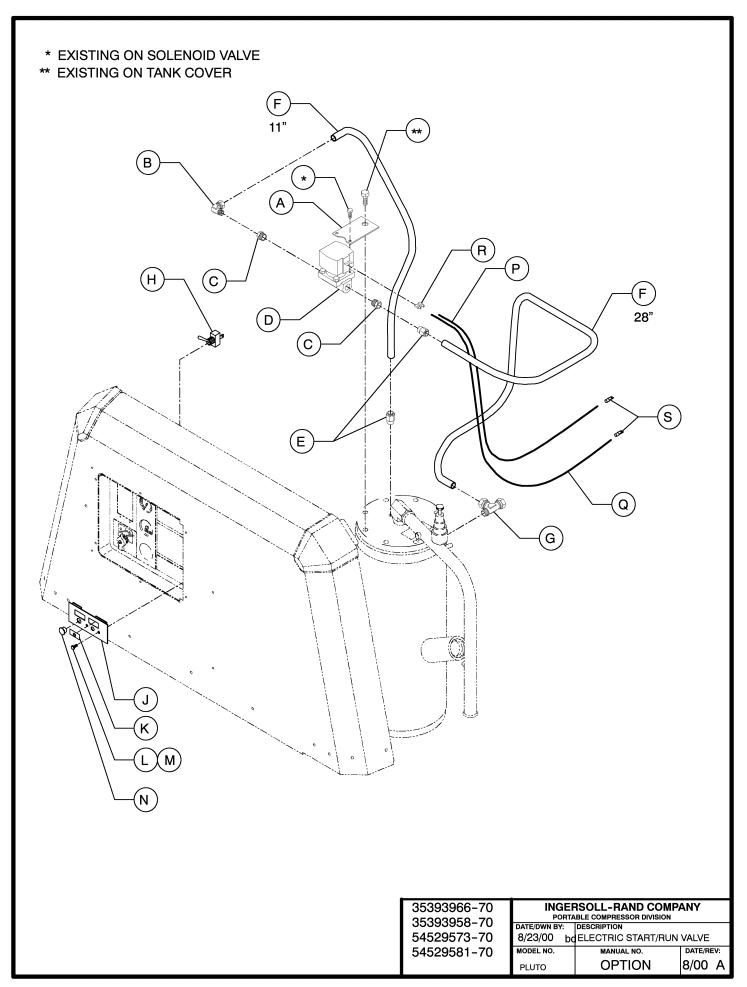
ITEM	C.P.N.	QTY	DESCRIPTION
Α	35382621	1	MIN PRESS VALVE BODY
В	35382639	1	CV ASSEMBLY
С	35382662	1	SPRING
D	35382647	1	PISTON
Е	35382654	1	O-RING
F	35382670	1	SPRING
G	35389055	1	SPRING
Н	35382688	1	CAP
	35598770	1	MIN PRESS VALVE ASSEMBLY

35393958-69 54437173-81 35391705-81 PORTABL 35393966-69 54529599-81 35391713-81 DATE,DWN BY: DE 54531520-81 35391721-81 3/26/97 bd 54529581-69 35391739-81 MODEL NO.

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DATE/DWN BY: DESCRIPTION
3/26/97 bd MIN PRESS VALVE

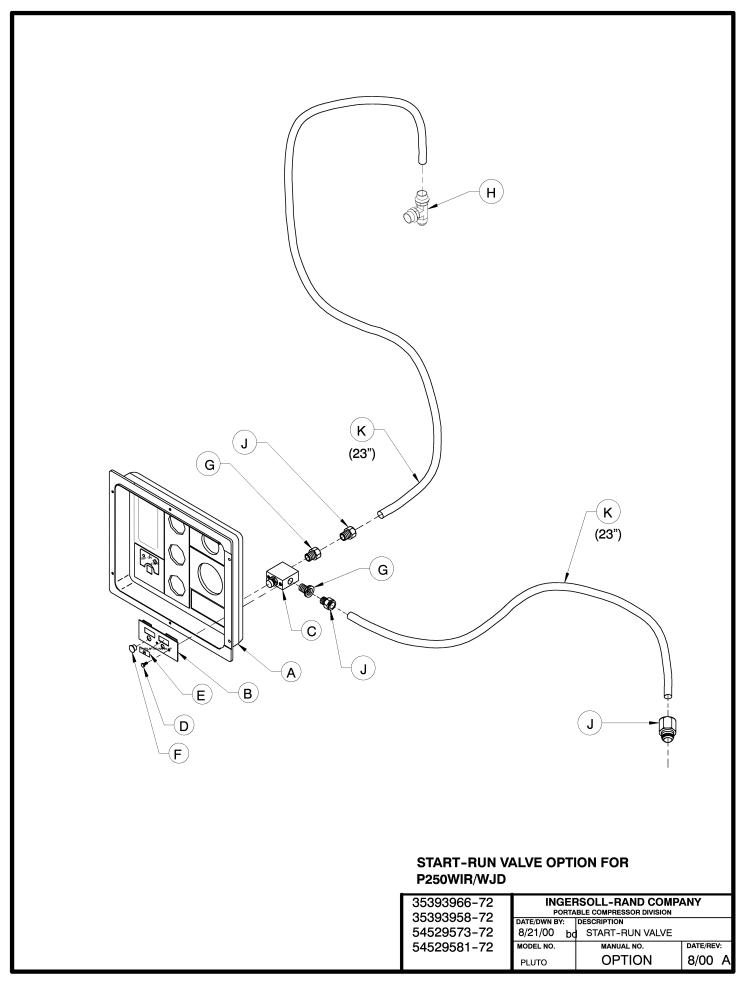
MODEL NO. MANUAL NO. DATE/REV:
OPTION 8/00 B



ITEM	C.P.N.	QTY	DESCRIPTION
Α	36892669	1	BRACKET, SOLENOID VALVE
В	35369354	1	ELBOW, MALE 1/4NPT X 3/8 TUBE
С	95940748	2	BUSHING, REDUCING
D	36843142	1	SLOENOID, 12 VDC
Е	35369347	2	CONNECTOR, MALE 1/4 NPT X 3/8 TUBE
F	35356484	***	TUBING, 3/8 SYNFLEX
G	35369503	1	TEE, 1/4 NPT X 3/8 TUBE
Н	36895449	1	SWITCH, 3 POSITION TOGGLE
J	36879708	1	PANEL, SWITCH BEZEL
K	36532992	1	DECAL, START/RUN
L	36882207	2	SCREW, PAN HD M06-1.0 X 12
М	96700851	2	NUT, HEX M06-1.0
N	35282185	1	PLUG, HOLE
Р	35307685	16"	WIRE, 14 GA. BROWN
Q	35360916	16"	WIRE, 14 GA. ORANGE
R	36844520	2	CONNECTOR, 1/4 FEMALE
S	35306141	2	CONNECTOR, 1/4 MALE

*** SEE ILLUSTRATION FOR LENGTHS

35393966-71 35393958-71	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION		
54529573-71	DATE/DWN BY: 8/23/00 bo	DESCRIPTION ELECTRIC START/RUN	VALVE
54529581-71	MODEL NO. PLUTO	MANUAL NO. OPTION	B/00 A

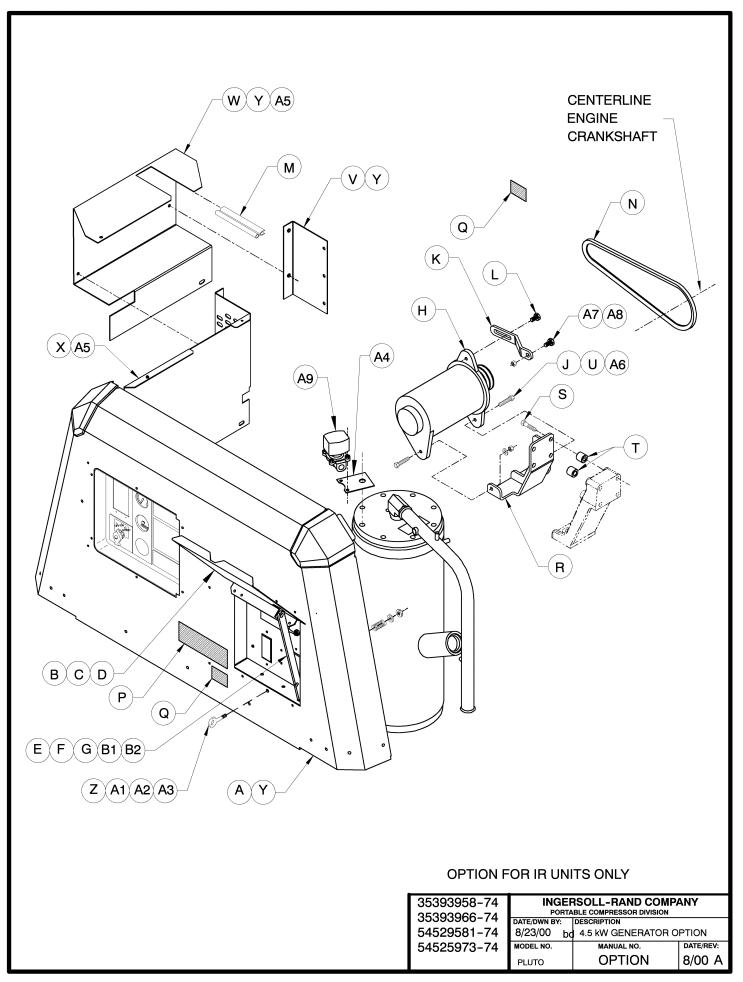


		QTY	DESCRIPTION
Α	36884492	1	RECESSED FRAME ASSEMBLY
В	36879708	1	PANEL, SWITCH BEZEL
С	36783439	1	VALVE, 2-WAY START-RUN
D	36882207	2	SCREW, PAN HD M06-100 X 12
Ε	36879963	1	DECAL, START-RUN
F	35282185	1	PLUG
G	35302314	2	ADAPTER
Н	35369503	1	TEE, NPT 1/4 X 3/8 TUBE
J	35369347	3	CONNECTOR, MALE 1/4 NPT X 3/8
K	35356484	*	TUBING, 3/8 OD

START-RUN VALVE OPTION FOR P250WIR/WJD

35393966-73 35393958-73	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
54529573-73	B/21/00 bo	DESCRIPTION START-RUN VALVE		
54529581-73	MODEL NO.	MANUAL NO.	DATE/REV:	
	PLUTO	OPTION	8/00 A	

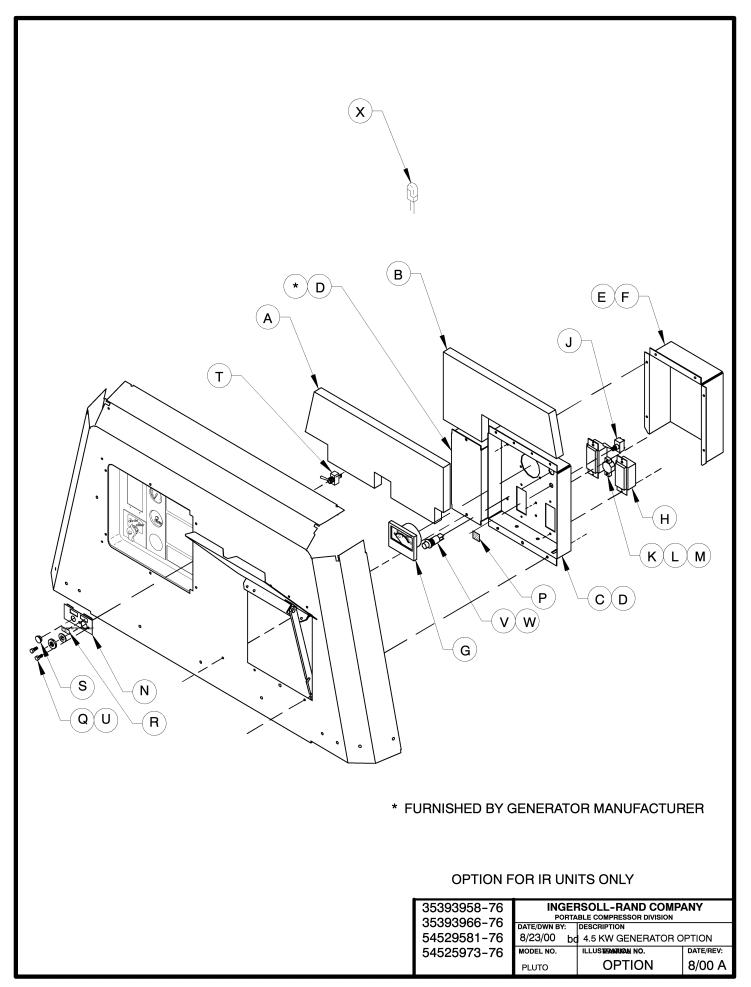
^{*} SEE ILLUSTRATION FOR LENGTH



		QTY	DESCRIPTION
A	36895373	1	ENDCAP, FRONT TOP
В	36895381	1	DOOR, GENERATOR CONTROL PANEL
С	36890085	1	HINGE, CONTROL PANEL
D	36877587	4	RIVET, 3/16 ALUMINUM
Е	36895506	1	ARM, CONTROL PANEL SUPPORT
F	35158617	1	WASHER, SPRING
G	96702287	1	SCREW, HEX M10-1.5 X 25
Н	36884427	1	GENERAOR, 4.5 KW
J	35271162	2	SCREW, HEX M08-1.25 X 30
K	54427836	1	STRAP, ADJ ALTERNATOR
L	95929006	1	SCREW, HEX 3/16-18 X 1
М	36879765	1	STRIP, SEAL
Ν	54570320	1	BELT, V 10mm
Р	36532034	1	DECAL, GENERATOR OPERATION
Q	36532026	2	DECAL, HORIZONTAL HAZARDOUS VOLTAGE
R	54427828	1	BRACKET, GENERATOR
S	54570973	4	SCREW, HEX HEAD M10-1.25 X 90
Т	54466776	2	SPACER
U	95934303	2	WASHER, LOCK
V	54577242	1	BRACKET, GEN GUARD
W	54441811	1	GUARD, GENERATOR
X	54576145	1	GUARD, TOOLBOX / GENERATOR
Υ	36797652	10	SCREW, TAPPING M06-1.0 X 12
Z	35607829	1	EYEBOLT, 1/4 X 2.5
A1	95925029	1	WASHER, FLAT
A2	35607837	1	SPRING, COMPRESSION
A3	95923298	1	NUT, HEX LOCK M10-1.5
A4	36892669	1	BRACKET, SOLENOID VALVE
A 5	35279025	3	SCREW, TAPPING M08-1.25 X 20
A6	96735543	2	NUT, HEX M08-1.25
A7	36879195	1	NUT, HEX FLANGE M10
A8	96719265	1	SCREW, HEX M100-1.5 X 50
A9	36843142	1	VALVE, SOLENOID 12V
B1	95935037	1	WASHER, FLAT
B2	35312024	1	NUT, HEX LOCK M10-1.5

OPTION FOR IR UNITS ONLY

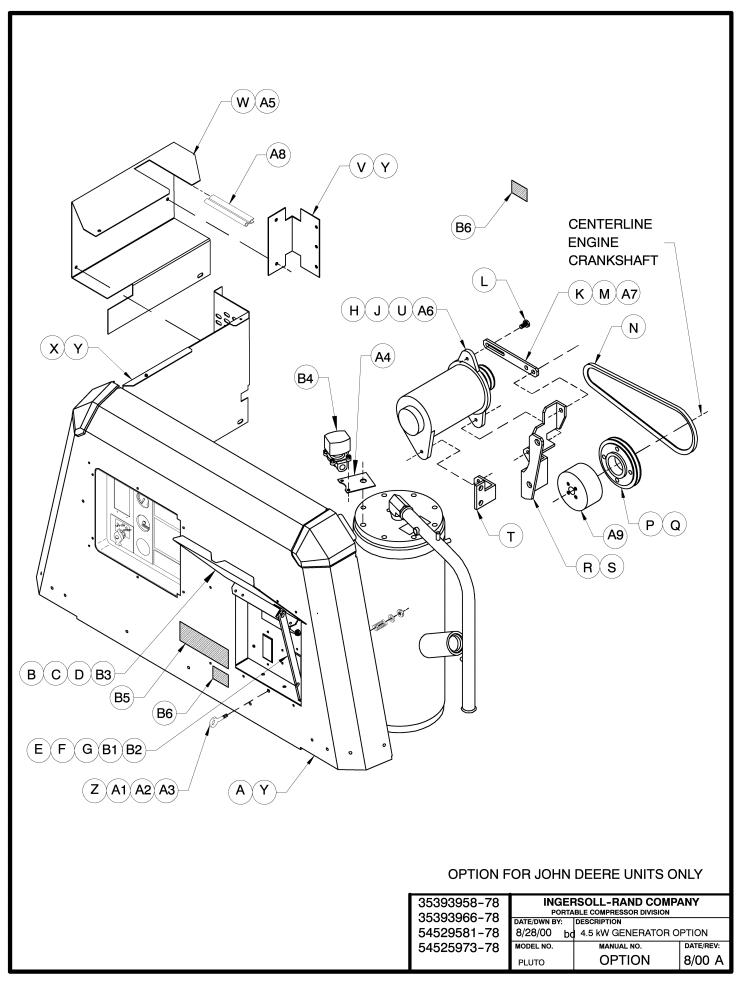
35393958-75 35393966-75	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
33393900-73	DATE/DWN BY:	DESCRIPTION		
54529581-75	8/23/00 bo	4.5 KW GENERATOR O	PTION	
54525973-75	MODEL NO.	MANUAL NO.	DATE/REV:	
	PLUTO	OPTION	8/00 A	



ITEM	C.P.N.	QTY	DESCRIPTION
	36895423	4	PANEL, ACST TOP FRONT LOWER
A		1	
В	36895431	<u> </u>	PANEL, ACST TOP FRONT UPPER
С	36895332	1	PANEL, GENERATOR CONTROL
D	36920486	8	RIVET, 3/16 SS
Е	36895340	1	COVER, GENERATOR CONTROL BOX
F	36797652	6	SCREW, TAPPING M06-1.0 X 12
G	36884435	1	METER, VOLT
Н	36848745	2	RECEPTACLE, DUPLEX 125V 20A
J	36892545	1	SWITCH, 3 POSITION
K	95923124	2	NUT, HEX #10-32
L	36892560	1	BREAKER, CIRCUIT 25AMP
М	95942603	2	SCREW, PAN HEAD #10-32 X 3/4
N	36879708	1	PANEL, SWITCH BEZEL
Р	36532984	1	DECAL, GEN-AIR-GEN/AIR
Q	36882207	2	SCREW, PAN HD M06-100 X 12
R	36532992	1	DECAL, START-RUN / WARM-UP
S	35282185	1	PLUG
Т	36895449	1	SWITCH, SPDT TOGGLE
U	96703806	2	NUT, HEX M06
V	36883825	1	LAMP, HOLDER RED
W	35333236	1	BULB, INCANDESCENT
X	36887776	1	DIODE ASSEMBLY

OPTION FOR IR UNITS ONLY

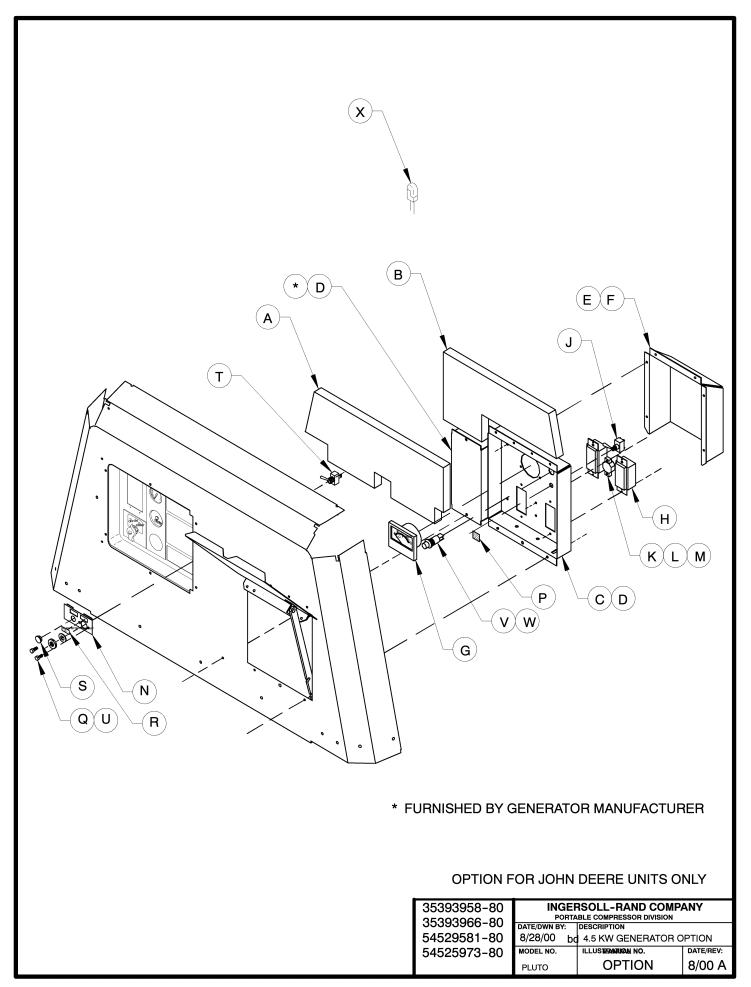
35393958-77 35393966-77	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION		
33393900-77	DATE/DWN BY:	DESCRIPTION	
54529581-77	8/28/00 bo	4.5 KW GENERATOR C	PTION
54525973-77	MODEL NO.	MANUAL NO.	DATE/REV:
	PLUTO	OPTION	8/00 A



		QTY	DESCRIPTION
Α	36895373	1	ENDCAP, FRONT TOP
В	36895381	1	DOOR, GENERATOR CONTROL PANEL
С	36890085	1	HINGE, CONTROL PANEL
D	36877587	4	RIVET, 3/16 ALUMINUM
E	36895506	1	ARM, CONTROL PANEL SUPPORT
F	35158617	1	WASHER, SPRING
G	96702287	1	SCREW, HEX M10-1.5 X 25
H	36884427	1	GENERAOR, 4.5 KW
J	35271162	2	SCREW, HEX M08-1.25 X 30
K		1	STRAP, ADJ ALTERNATOR
L	35611391 95929006	1	SCREW, HEX 3/16-18 X 1
M	95929006 96701917	1	SCREW, HEX 3/16-16 X 1 SCREW, HEX M10-1.5 X 30
		1	BELT, V 10mm
N P	36892610		
	36895233	1 4	PULLEY, CRANKSHAFT SCREW, CAP SHOULDER 3/8-16 X 1
Q	95055349		
R	36892511	1	BRACKET, GEN FRONT
S T	36793040	2	SCREW, FLANG HEAD M16-2.0 X 40
U	36892529	1	BRACKET, GEN REAR
	95934303	2	WASHER, LOCK
V \\/	54443718	1 1	BRACKET, GEN GUARD
W	54441811		GUARD, TOOLBOY (GENERATOR
X	54576145	1	GUARD, TOOLBOX / GENERATOR
Y	36797652	12	SCREW, TAPPING M06-1.0 X 12
Z ^1	35607829	1	EYEBOLT, 1/4 X 2.5
A1	95925029	1	WASHER, FLAT
A2	35607837	1	SPRING, COMPRESSION
A3	95923298	1	NUT, HEX LOCK M10-1.5
A4	36892669	1	BRACKET, SOLENOID VALVE
A5	35279025	3	SCREW, TAPPING M08-1.25 X 20
A6	96735543	2	NUT, HEX M08-1.25
A7	36879195	1	NUT, HEX FLANGE M10
A8	36879765	1	STRIP, SEAL
A9	36895761	1	ADAPTER, CRANKSHAFT PULLEY
B1	95935037	1	WASHER, FLAT
B2	35312024	1	NUT, HEX LOCK M10-1.5
B3	36920486	4	RIVET, 3/16 SS
B4	36843142	1	VALVE, SOLENOID 12V
B5	36532034	1	DECAL, GENERATOR OPERATION
B6	36532026	2	DECAL, HORIZONTAL HAZARDOUS VOLTAGE

OPTION FOR JOHN DEERE UNITS ONLY

35393958-79 35393966-79		RSOLL-RAND COMPA BLE COMPRESSOR DIVISION	ANY
33393900-79	DATE/DWN BY:	DESCRIPTION	
54529581-79	8/28/00 bo	4.5 KW GENERATOR O	PTION
54525973-79	MODEL NO.	MANUAL NO.	DATE/REV:
3.52576 76	PLUTO	OPTION	8/00 A



ITEM	C.P.N.	QTY	DESCRIPTION
Α	36895423	1	PANEL, ACST TOP FRONT LOWER
В	36895431	1	PANEL, ACST TOP FRONT UPPER
С	36895332	1	PANEL, GENERATOR CONTROL
D	36920486	8	RIVET, 3/16 SS
Е	54472428	1	COVER, GENERATOR CONTROL BOX
F	36797652	1	SCREW, TAPPING M06-1.0 X 12
G	36884435	1	METER, VOLT
Н	36848745	2	RECEPTACLE, DUPLEX 125V 20A
J	36892545	1	SWITCH, 3 POSITION
K	95923124	2	NUT, HEX #10-32
L	36892560	1	BREAKER, CIRCUIT 25AMP
М	95942603	2	SCREW, PAN HEAD #10-32 X 3/4
N	36879708	1	PANEL, SWITCH BEZEL
Р	36532984	1	DECAL, GEN-AIR-GEN/AIR
Q	36882207	2	SCREW, PAN HD M06-100 X 12
R	36532993	1	DECAL, START-RUN / WARM-UP
S	35282185	1	PLUG
Т	36895449	1	SWITCH, SPDT TOGGLE
U	96700851	2	NUT, HEX M06
V	36883825	1	LAMP, HOLDER RED
W	35333236	1	BULB, INCANDESCENT
Х	36887776	1	DIODE ASSEMBLY
1			

OPTION FOR JOHN DEERE UNITS ONLY

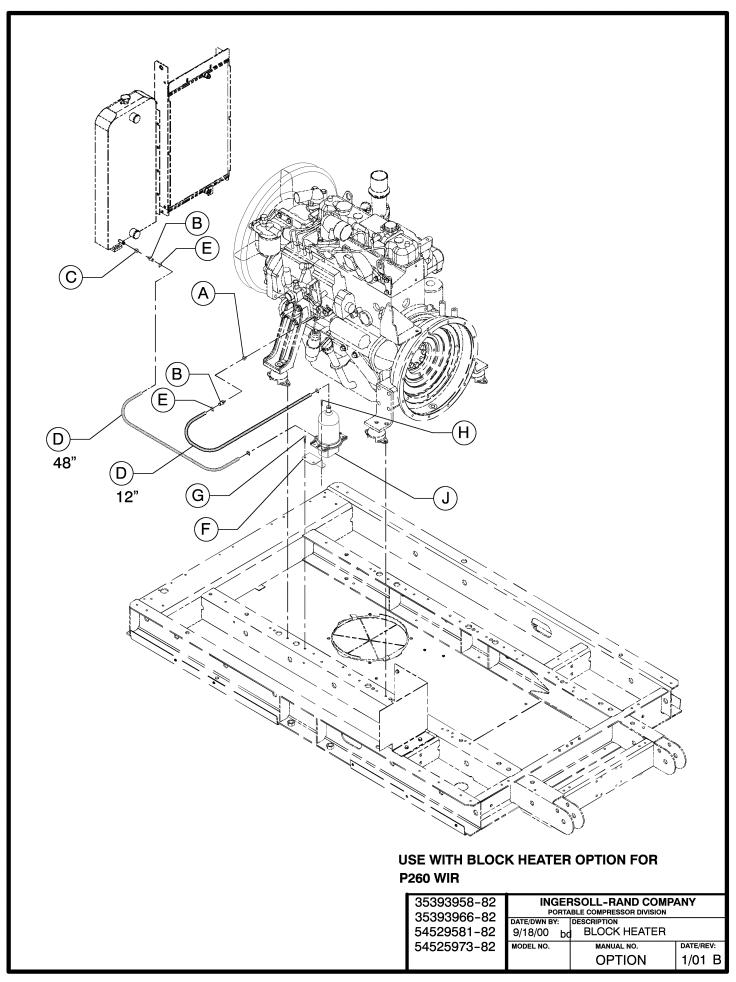
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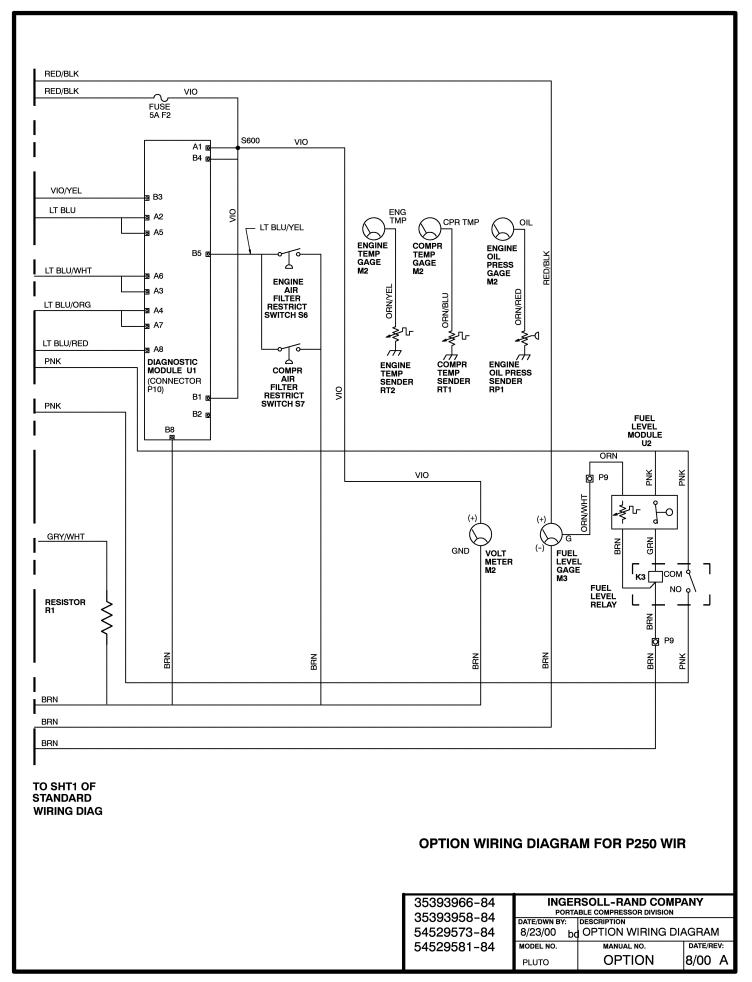
8/00 A

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DATE/DWN BY: DESCRIPTION

8/28/00 bd 4.5 KW GENERATOR OPTION 35393958-81 35393966-81 54529581-81 MODEL NO. MANUAL NO. 54525973-81 OPTION PLUTO

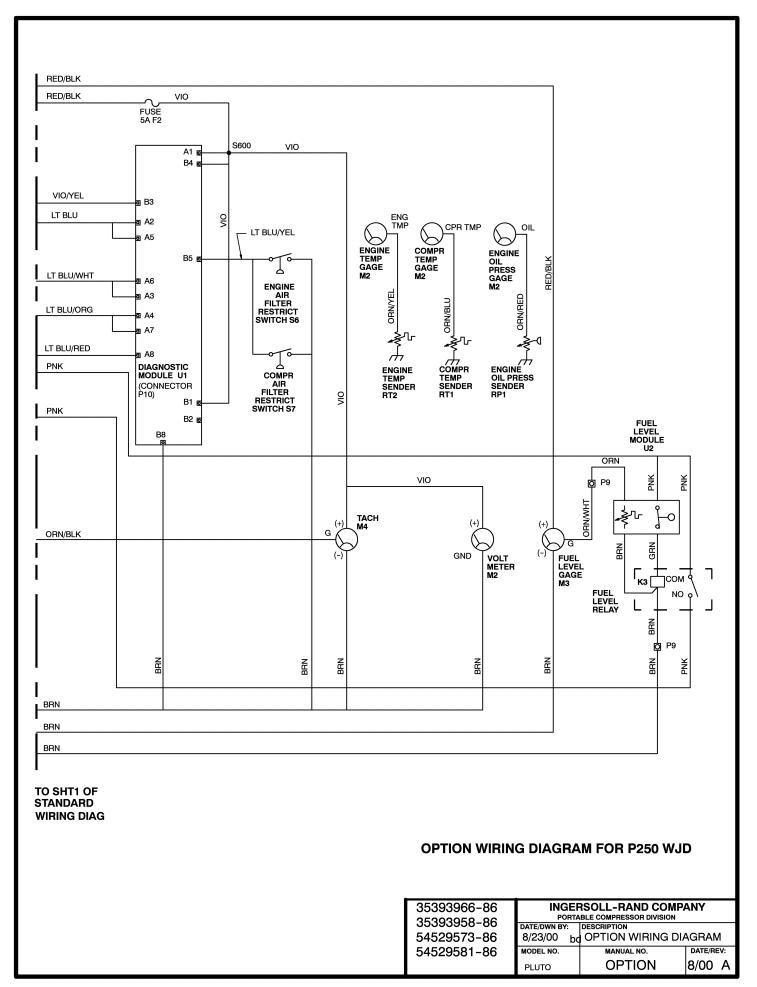




ITEM	C.P.N.	DESCRIPTION
	00700054	
F2	36782654	FUSE, 5A
K3	36856979	RELAY, FUEL SHUTDOWN
M2	36879682	GAGE, 4 IN 1
М3	36879690	GAGE, FUEL LEVEL
R1	54488416	RESISTOR
RP1	36870608	SENDER, ENG OIL PRESS
RT1	54593843	SENDER, CPRSR TEMP
RT2	35604180	SENDER, ENG TEMP
S6	35314939	SWITCH, ENG AIR FILTER RESTRICTION
S7	35314939	SWITCH, CPRSR AIR FILTER RESTRICTION
U1	36882033	MODULE, DIAGNOSTIC
U2	36882611	MODULE, FUEL LEVEL

OPTION WIRING DIAGRAM FOR P250 WIR

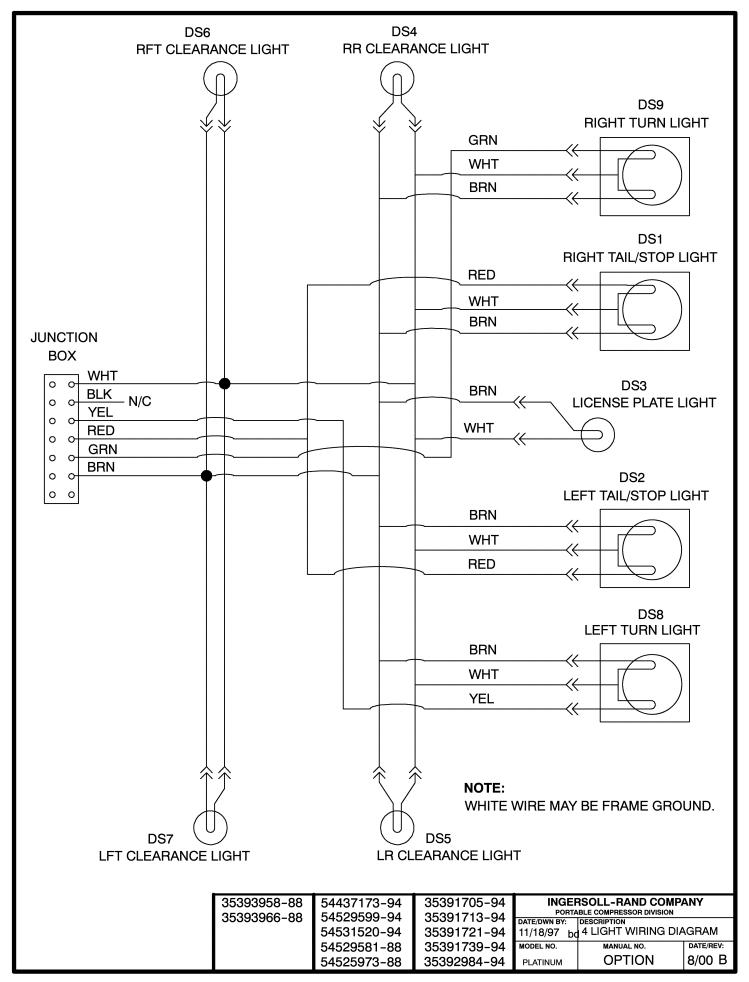
35393966-85 35393958-85	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION		
54529573-85		DESCRIPTION OPTION WIRING DIA	AGRAM
54529581-85	MODEL NO.	MANUAL NO.	DATE/REV:
	PLUTO	OPTION	1/01 B



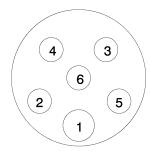
ITEM	C.P.N.	DESCRIPTION
F2	36782654	FUSE, 5A
K3	36856979	RELAY, FUEL SHUTDOWN
M2	36879682	GAGE, 4 IN 1
М3	36879690	GAGE, FUEL LEVEL
M4	36879740	GAGE, TACHOMETER
RP1	36870608	SENDER, ENG OIL PRESS
RT1	54593843	SENDER, CPRSR TEMP
RT2	35372457	SENDER, ENG TEMP
S6	36847838	SWITCH, ENG AIR FILTER RESTRICTION
S7	36847838	SWITCH, CPRSR AIR FILTER RESTRICTION
U1	36882033	MODULE, DIAGNOSTIC
U2	36882611	MODULE, FUEL LEVEL

OPTION WIRING DIAGRAM FOR P250 WJD

1	35393966-87 35393958-87	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
	54529573-87		DESCRIPTION OPTION WIRING DIA	AGRAM	
	54529581-87	MODEL NO.	MANUAL NO.	DATE/REV:	
		PLUTO	OPTION	1/01 B	



ITEM	C.P.N.	DESCRIPTION
DS1	36788081	LAMP ASSEMBLY
		_ ···· · · · · · · · · · · · · · · · ·
DS2	36788081	LAMP ASSEMBLY
DS3	36895860	LIGHT, LICENSE
DS4	35367044	LAMP, RED CLEARANCE
DS5	35367051	LAMP, YELLOW CLEARANCE
DS6	35367044	LAMP, RED CLEARANCE
DS7	35367051	LAMP, YELLOW CLEARANCE
DS8	36788081	LAMP ASSEMBLY
DS9	36788081	LAMP ASSEMBLY
W3	36893345	HARNESS, 4-LIGHT SYSTEM
1		



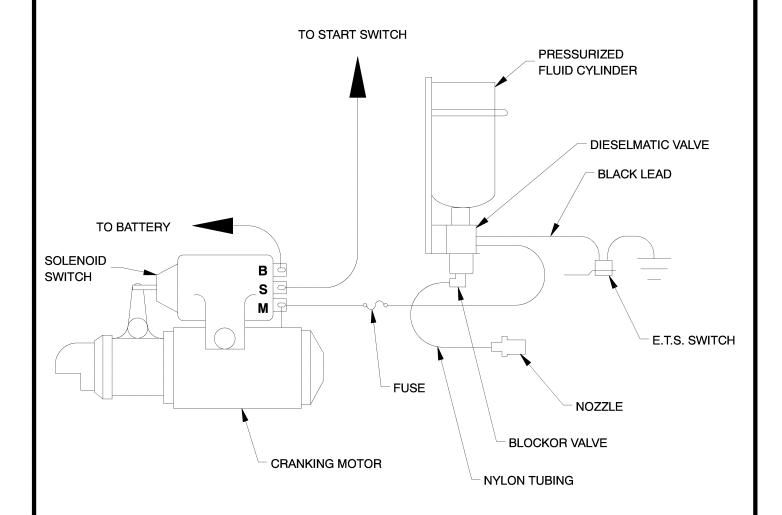
PLUG / SOCKET WIRING CONNECTIONS

- 1 WHITE GROUND
- 2 YELLOW LEFT TURN SIGNAL
- 3 RED STOP LIGHT
- 4 GREEN RIGHT TURN SIGNAL
- 5 BROWN TAIL / CLEARANCE LIGHTS
- 6 BLUE ELECTRIC BRAKES

35393958-89 35393966-89	54437173-95 54529599-95	35391705-95 35391713-95	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION		
33393966-69	54531520-95		DATE/DWN BY: DESCRIPTION 11/18/97 bd 4 LIGHT WIRING DIAGRAN		GRAM
	54529581-89	35391739-95	MODEL NO.	MANUAL NO.	DATE/REV:
	54525973-89	35392984-95		OPTION	8/00 B

NOTE:

- 1. WIRE FUSE INTO CIRCUIT AS CLOSE TO **M (MOTOR)** TERMINAL AS POSSIBLE.
- 2. NOT FOR USE WITH INGERSOLL ENGINES.



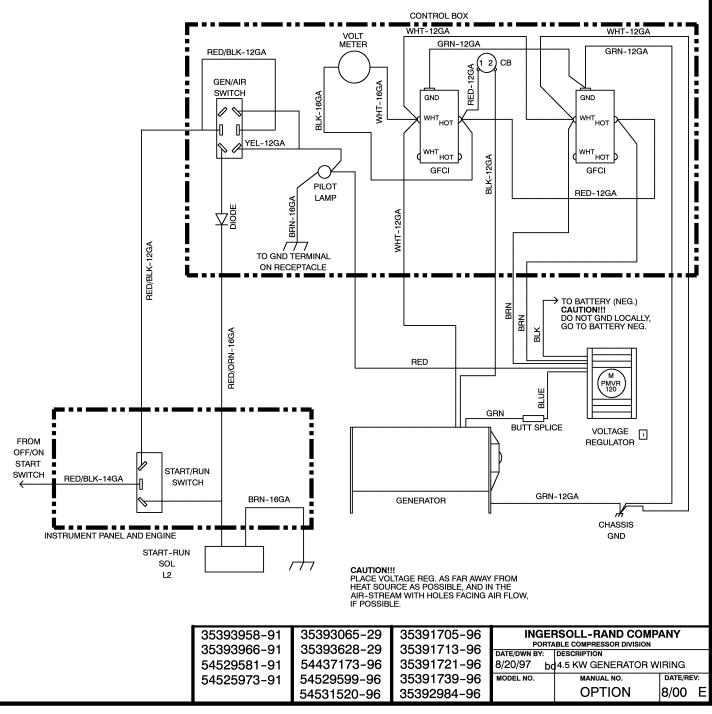
COLD START WIRING FOR KIT 35377266

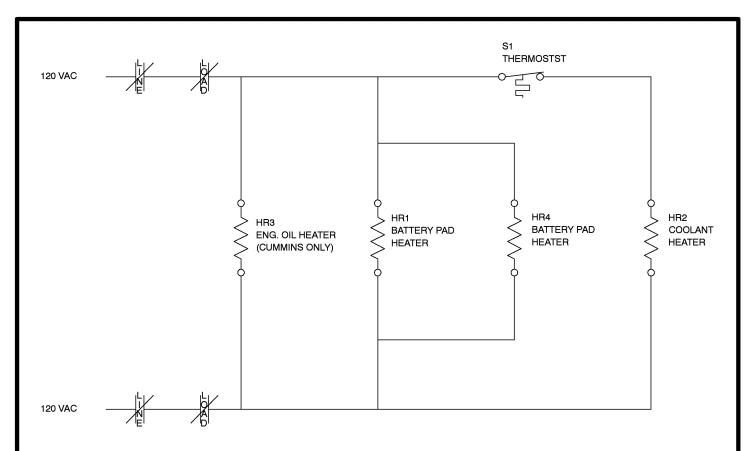
35393958-90	54529599-86	35380277-42		35390095-76	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION DATE/DWN BY: DESCRIPTION 4/12/96 bd COLD START WIRING		ANY
	54531520-86 35393966-90	35393396-42 35393065-28	35391713-86 35391721-86	35391093-76 35392877-76			ING
	54529581-90	35393628-28	35391739-86	35392885-76	MODEL NO.	MANUAL NO.	DATE/REV:
	54525973-90	54437173-86	35392984-86	35393172-76		OPTION	8/00 B

INSTALLATION OF PMVR 120 REGULATOR:
 A. CONNECT DOUBLE BRN WIRE LEADS OF VOLTAGE REGULATOR AS FOLLOWS:

ONE LEAD TO SILVER SCREW OF DOUBLE RECEPTACLE IN CONTROL BOX.
OTHER LEAD TO BRASS SCREW.

- B. CONNECT RED WIRE TO YELLOW WIRE (HOT +12 V SOURCE), AND TO PILOT LAMP TERMINAL.
- C. CONNECT BLUE WIRE TO GREEN WIRE OF ALTERNATOR WITH BUTT SPLICE.
- D. CONNECT BLACK WIRE TO BATTERY NEG.





NOTE: REFER TO MODEL FOR LIST OF OPTIONAL HEATERS AVAILABLE

		P100-P160	P100-P160	J DEERE P175-XP185	CUMMINS P250-P375 E25-E50	KUBOTA L5; L6-L8	CUMMINS VHP400-P600
	HR1	~	~	36920387	36920387	36920387	36920379
	HR2	36843563	35379221	36874659	36898971	36898252	36898971
	HR3	~	~	~	~	~	~
	HR4	~	~	~	~	~	36920387
	S1	~	~	36858751	36858751	~	36858751
	W1	~	~	36920361	36920361	36898245	36920361
,		CUMMINS	J DEERE	CAT	CUMMINS	CAT	CUMMINS
		HP600-XP825	HP600-XP825	XHP600-XHP900	VHP825-XP1050	VHP750-XP1000	HP100-P1600
	HR1	36920411	36920411	36920338	36920411	36920411	36920338
	HR2	36874642	36874659	36871325	36852614	36871283	36882520
	HR3	36874675	~	~	36869691	~	36882512
	HR4	36920429	36920429	36920346	36920429	36920429	36920346
	S1	36858751	36858751	36858751	36858751	36858751	36858751
	W1	36920437	36920403	36871317	36852598	36871275	36920320
					_		
35393958		35392893-55	35380277-44			DODTADI E	LL-RAND COMP. COMPRESSOR DIVISION
35393966	-92	35392901-55	35393396-44	35391713-97	35391093-84	DATE/DWN BY: DESC	CRIPTION

54529599-97

54531520-97

35393065-40

35393628-40

54437173-97

54529581-92

54525973-92

35391721-97

35391739-97

35392984-97

7/6/99

MODEL NO.

35392877-84

35392885-84

35393172-84

bd 110 VAC HEATER WIRING

MANUAL NO.

OPTION

DATE/REV:

8/00 B

C.P.N.	DESCRIPTION
35610500	SPARK ARRESTOR (J DEERE)
36897296	ELBOW, EXHAUST
30097290	ELBOW, EXHAUST
36897288	ELBOW, EXHAUST
35316215	CAP, RAIN
35379221	ENGINE BLOCK HEATER (4 CYL. J DEERE)
36884237	KEY IGNITION SWITCH
36886810	GAGE LIGHT HARNESS
36852622	LIGHT, PANEL
35333236	BULB
36794345	KEY LOCK CYLINDER
35612746	KEY (REPLACEMENT)
	· · · · · · · · · · · · · · · · · · ·
36844975	BATTERY, 1000 CCA
36888758	BATTERY, DRY 1000 CCA
35370469	COUPLER, 2.31" BALL
35376094	SCREW, HEX M16-2.0 X 120
96701750	NUT, HEX M16-2,0
36509073	COUPLER, 2" BALL
35131499 *	LIP
35131481 *	SPRING
35131457 *	NUT, LOOP HANDLE
35131465 *	BOLT
35376094	SCREW, HEX M16-2.0 X 120
96701750	NUT, HEX M16-2,0
35393651	ELEMENT, ENGINE AIR CLNR SAFETY
54471842	ELEMENT, AIREND AIR CLNR SAFETY

^{*} FURNISHED WITH 2" COUPLER

35393958-93 35393966-93	INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
54529581-93	DATE/DWN BY: DESCRIPTION 8/28/00 bd MISCELANEOUS OPTION			
54525973-93 MODEL NO.		MANUAL NO.	DATE/REV:	
	PLUTO	OPTION	8/00 A	