INGERSOLL-RAND®
AIR COMPRESSORS

OPERATING, MAINTENANCE PARTS MANUAL

Portable Compressor Division
P.O. Box 868
Mocksville, N.C. 27028

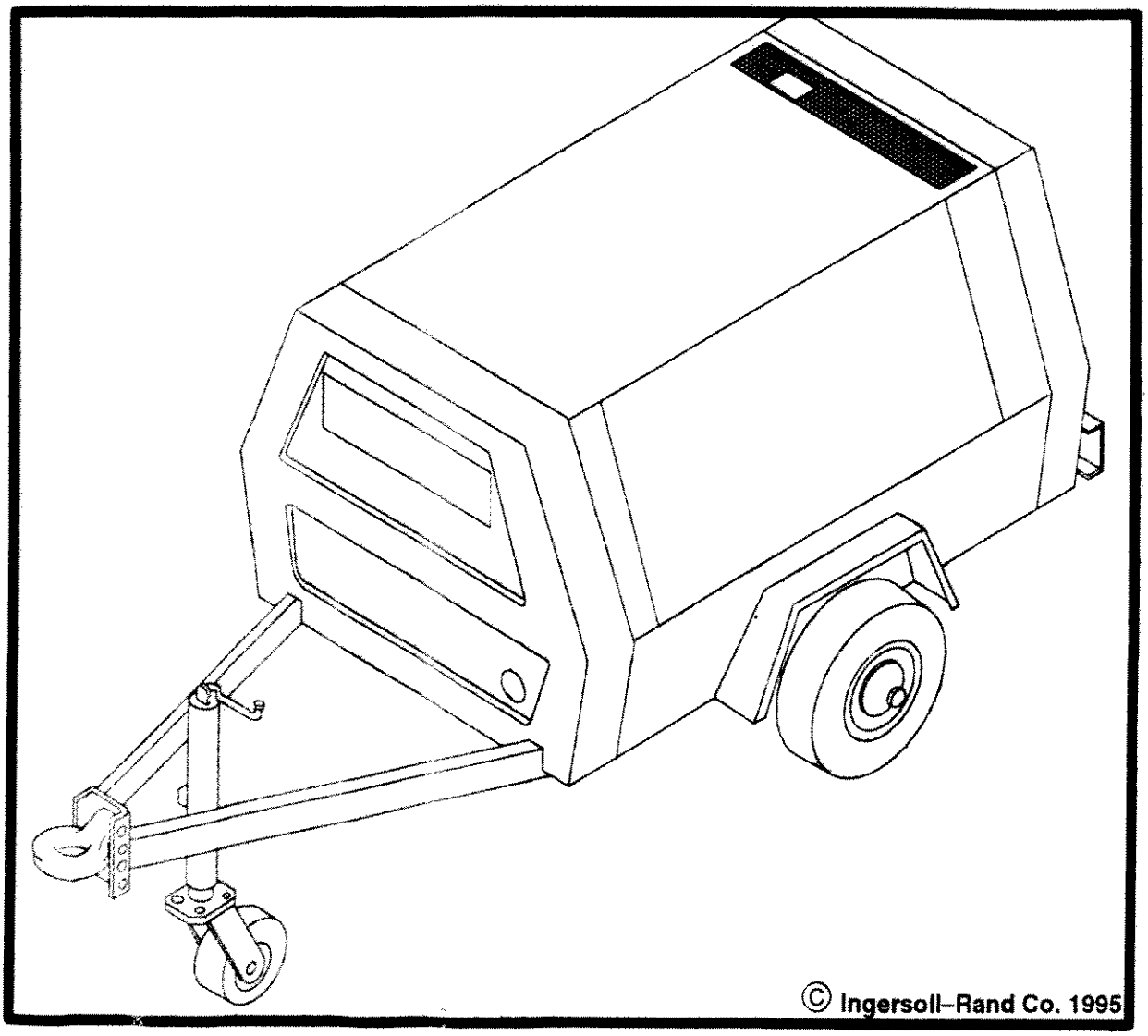
COMPRESSOR MODEL

P250WJD

Book P/N 35390145 (October, 1995)

(Apply Serial No. Label Here)

Code: A



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SECTION 1 – SAFETY

IMPORTANT SAFETY INSTRUCTIONS

Look for these signs 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 your supervisor.

⚠DANGER
(Red Background)

Danger is used to indicate the presence of a hazard which **WILL cause severe injury or death,** if the WARNING is ignored.

⚠WARNING
(Orange Background)

Warning is used to indicate the presence of a hazard which **CAN cause severe injury or death,** if the WARNING is ignored.

⚠CAUTION
(Yellow Background)

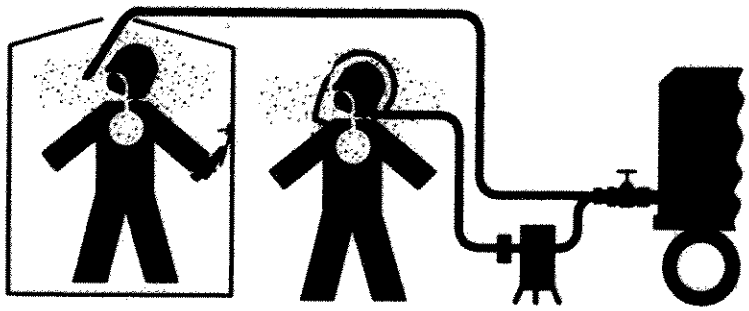
Caution is used to indicate the presence of a hazard which **WILL or CAN cause minor injury or property damage,** if the WARNING is ignored.

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.

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

DANGER



Air discharged from this machine may contain carbon monoxide or other contaminants which will cause severe injury or death. Do not breathe this air.

WARNING

Improper operation of this equipment CAN cause severe injury or death. Read Operator's Manual supplied with this machine before operation or service.

Modification or alteration of this machine CAN result in severe injury or death. Do not alter or modify this machine without the express written concent of the manufacturer.

DANGER

Never operate the engine of this machine inside a building without adequate ventilation. Avoid breathing exhaust fumes when working on or near the machine.

WARNING

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.

WARNING

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.

CAUTION

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.

WARNING

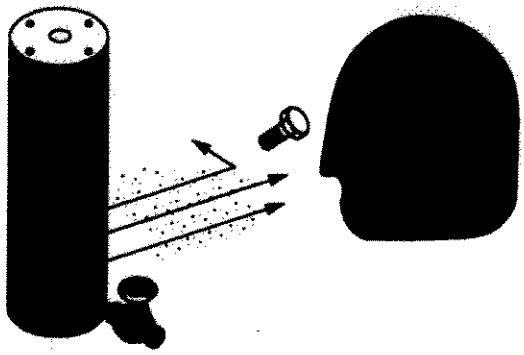
Never inspect or service unit without first disconnecting battery cable(s) to prevent accidental starting.

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 heading: **DANGER – WARNING or CAUTION.**

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.

WARNING



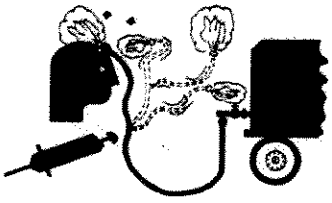
High pressure air.
Can cause severe injury or death.

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

WARNING

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

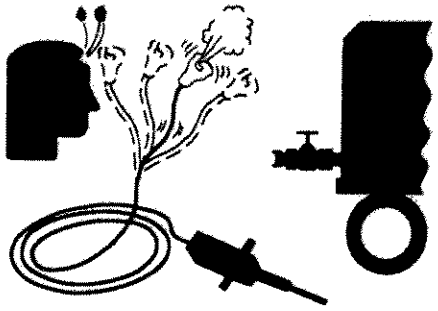
DANGER



Disconnected Air Hoses Whip.
Can cause severe 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).

DANGER



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.

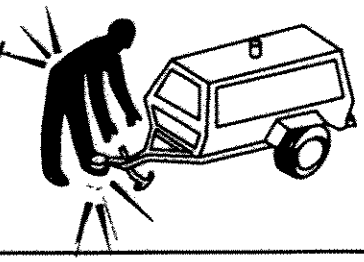
WARNING

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).

WARNING

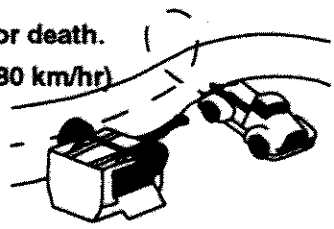
Collapsing jack stand.
Will cause severe injury.

Insert locking pin completely.



Excessive towing speed.
Can cause severe injury or death.

Do NOT exceed 50 mph (80 km/hr)

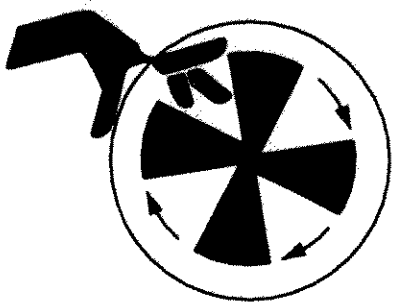


WARNING

Hot pressurized fluid.
Can cause severe burns.

Do not open radiator while hot.

WARNING



Rotating fan blade.
Can cause severe injury.

Do not operate without guard in place.

CAUTION

Use extreme 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! If too much is injected, it may result in costly damage to the engine.

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

WARNING

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

CAUTION

Do not connect the air discharge on this unit onto a common header with any other unit of any description, or any other source of compressed air, without first making sure a check–valve is used between the header and the unit. If this unit is connected with another unit, a safety hazard could occur.

WARNING

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:

1. 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
2. Removal of any of the following:
   a. fan shroud
   b. vibration mounts
   c. sound absorption material
3. 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.

Hazardous Substance Precaution

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

SUBSTANCE	PRECAUTION
Compressor Oil	*Avoid ingestion, skin contact and breathing fumes.*
Engine Lubricating Oil	*Avoid ingestion, skin contact and breathing fumes.*
Preservative Grease	*Avoid ingestion, skin contact and breathing fumes.*
Rust Preventative	*Avoid ingestion, skin contact and breathing fumes.*
Diesel Fuel	*Avoid ingestion, skin contact and breathing fumes.*
Battery Electrolyte	*Avoid ingestion, skin contact and breathing fumes.*

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

SUBSTANCE	PRECAUTION
Engine Exhaust Fumes	*Avoid breathing.*
Engine Exhaust Fumes	*Avoid build–up of fumes in confined spaces.*
Brake Lining Dust	*Avoid breathing during maintenance.*

INGERSOLL-RAND®
AIR COMPRESSORS

PORTABLE COMPRESSOR SAFETY CARD

⚠ DANGER — DANGER IS USED TO INDICATE THE PRESENCE OF A HAZARD WHICH WILL CAUSE SEVERE INJURY OR DEATH IF THE WARNING IS IGNORED.

⚠WARNING — WARNING IS USED TO INDICATE THE PRESENCE OF A HAZARD WHICH CAN CAUSE SEVERE INJURY OR DEATH IF THE WARNING IS IGNORED.

⚠CAUTION — CAUTION IS USED TO INDICATE THE PRESENCE OF A HAZARD WHICH WILL OR CAN CAUSE MINOR INJURY OR PROPERTY DAMAGE IF THE WARNING IS IGNORED.

⚠ DANGER

Discharge Air can contain carbon monoxide or other contaminants.
Will cause severe injury or death.

Do not breathe this air.

This decal near service valve.

⚠ WARNING

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

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

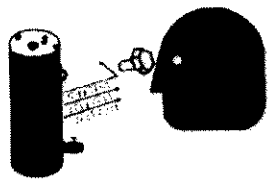
⚠ WARNING

Modification or alteration of this machine.
Can result in severe injury or death.

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

This decal near control panel.

⚠ WARNING

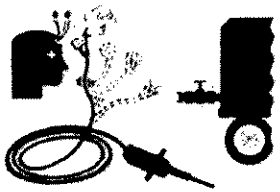


High pressure air.
Can cause severe injury or death.

Relieve pressure before removing filler plugs/caps.

This decal near receiver tank.

⚠ WARNING



Trapped air pressure.
Can cause severe injury or death.

Close service valve and operate tool to vent trapped air before performing any service.

This decal near service valve.

⚠ WARNING

Disconnected air hoses whip.
Can cause severe injury or death.

Attach safety flow restrictor to each hose "at the source of supply or branch line" in accordance with OSHA Regulation 29CFR Section 1926.302(b).

This decal near service outlet.

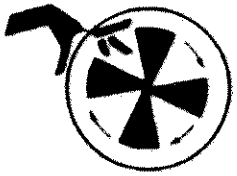
⚠ WARNING

Combustible gas.
Can cause severe burns, blindness or death.

Keep sparks and open flame away from batteries.

This decal near battery.

⚠ WARNING

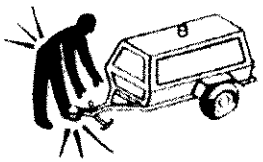


Rotating fan blade.
Can cause severe injury.

Do not operate without guard in place.

This decal near fan.

⚠ WARNING

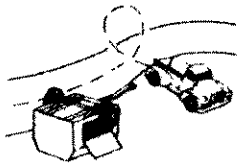


Collapsing jackstand.
Can cause severe injury.

Insert locking pin completely.

Excessive towing speed.
Can cause severe injury or death.

Do NOT exceed 50 mph (80 km/ph.)



This decal on drawbar.

⚠ WARNING

Hot pressurized fluid.
Can cause severe burns.

Do not open radiator while hot.

This decal near radiator cap.

The Safety Labels shown on this Card and on the machine are for operator and/or other personnel protection. Replacement Safety Labels can be obtained at no cost from your local Ingersoll-Rand dealer or representative, or by contacting the factory at Ingersoll-Rand Co. PO Box 868 Mocksville, NC 27028

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SAFETY CARD

SECTION 2 – WARRANTY

Ingersoll–Rand, through its distributor, warrants that each item of equipment manufactured by it and delivered hereunder to the initial user to 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 first occurs.

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

Aftercoolers, Drill Mountings and Klemm Rotary Heads – The earlier of six (6) months from initial operation or nine (9) months from date of shipment to the initial user.

Portable Compressors, Portable Generator Sets (GENSET), Portable Light Towers and Abrasive Blasting Equipment – The earlier of twelve (12) months from shipment to, or the accumulation of 2,000 hours of service by, the initial user.

All Compressor Air Ends, GENSET Generators and Paving Breakers – The earlier of twenty–four (24) months from shipment to, or the accumulation of 4000 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.

Pavers, Milling Machines, Pedestrian Compactors (including baseplates, upright and walk behinds) and Rotary Drills – The earlier of (6) months from shipment to, or the accumulation of 1000 hours of service by, the initial user.

Jackhammers, Forklifts and Self–Propelled Compactors – The earlier of twelve (12) months from shipment to, or accumulation of 1000 hours of service by, the initial user.

Downhole Drills – In lieu of the repair or replacement of defective parts, Ingersoll–Rand may elect to issue full or partial credit toward the purchase of a new part. The extent of credit issued will be determined by pro rating against the normal service life of the part in question.

Spare Parts (excluding downhill drills) – Three (3) months from date of shipment.

Warranty

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 and date at the time of exercising warranty.

This warranty does not apply to failures occurring as a result of abuse, misuse, negligent repairs, corrosion, erosion and normal wear and tear, alterations or modification made to the product without express written consent of Ingersoll–Rand; or failure to follow the recommended operating practices 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 (except of title), expressed or implied, and there are no warranties of merchantability or of fitness for a particular purpose.

Limitation of Liability

The remedies of the user set forth under the provisions of warranty outlined above are exclusive and the total liability of Ingersoll–Rand or its distributors with respect to this sale, delivery, installation, repair or technical direction covered by or furnished under this sale whether based on contract, warranty, negligence, indemnity, strict liability or otherwise shall not exceed the purchase price of the unit of equipment upon which such liability is based.

Ingersoll–Rand, its suppliers(s) and its distributors shall in no event be liable to the user, any successors in interest or any beneficiary or assignee relating to this sale for any consequential, incidental, indirect, special or punitive damages arising out of this sale or any breach thereof, or any defects in, or failure of, or malfunction of the equipment under this sale whether based upon loss of use, lost profits or revenue, interest, lost goodwill, work stoppage, impairment of other goods, loss by reason of shutdown or non–operation, increased expenses of operation of the equipment, cost of purchase of replacement power or claims of users or customers of the user for service interruption whether or not such loss or damage is based on contract, warranty, negligence, indemnity, strict liability or otherwise.

General Warranty Information

PRODUCT	PACKAGE	AIREND	GENERATOR
Portable Compressor	1 yr/2000 hrs.	2 yr/4000 hrs.	—
Portable Genset (20–50 KW)	1 yr/2000 hrs.	—	2 yr/4000 hrs.
Light Tower	1 yr/2000 hrs.	—	1 yr/2000 hrs.
Aftercooler	6 months	—	—
Abrasive Blast Equipment	1 year	—	—

PRODUCT WARRANTY

MANUFACTURER	MONTHS	HOURS	EXTENDED COVERAGE
Caterpillar	12	no limit	Available @ Dealer
Cummins	12	no limit	Available @ Dealer major components
in service after 1 Feb 93	12/24	no limit/2000	2 yrs/10000 hrs
John Deere	24	2000	Available @ Dealer
Deutz	12	no limit	Available @ Dealer
Ford	12	2000	—
Kubota	24	2000	major components 25–36 mo/3000 hrs parts only
White	12	2000	

ENGINE WARRANTY

MANUFACTURER	MONTHS	HOURS	COMMENTS
Ingersoll–Rand	3	no limit	parts only

PARTS WARRANTY

AIREND TYPE	MONTHS	HOURS	COMMENTS
Vane	6	1000	parts & labor
Screw	12	2000	parts & labor

AIREND EXCHANGE WARRANTY

SECTION 3 – WARRANTY REGISTRATION

Complete Machine Registration

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

Machines shipped outside the United States require notification be made to initiate the machine warranty.

If required, 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.

Engine Registration:

John Deere requires separate Engine Warranty Registration.

INGERSOLL-RAND®
AIR COMPRESSORS

Warranty Registration Form

SELLING DISTRIBUTOR	SERVICING DISTRIBUTOR	WARRANTY REGISTRATION
Name _____	Name _____	Owner/User Name _____
Address _____	Address _____	Address _____
City _____	City _____	City _____
County _____	County _____	County _____
State _____	State _____	State _____
Zip Code _____	Zip Code _____	Zip Code _____
Telephone _____	Telephone _____	Telephone _____

COMPLETE THE APPLICABLE BLOCKS
Owner/User Type of Business
(check only one)

☐ Construction—Heavy (Highway, excavation, etc.)	☐ Asphalt Contractor	☐ Coal Mining	☐ Other Mining
☐ Construction—Light (carpentry, plumbing, pools, mason, etc.)	☐ Government (municipal, state, county, etc.)	☐ Quarry	☐ Shallow Oil & Gas
☐ Rental (rental center, rental fleet, etc.)	☐ Building Contractor	☐ Waterwell	☐ Utility Company (gas, electric, water, etc.)
☐ Industrial (plant use)	☐ Other specify _____	☐ Exploration	☐ Utility Contractor

Model	Unit S/N	Engine S/N	Date Delv'd
Unit—Hours	**Air End S/N**	**Truck S/N**	**Truck Engine S/N**

SERVICING DISTRIBUTOR/USER ACKNOWLEDGEMENT

1. The Purchaser has been instructed and/or has read the manual and understands proper preventative maintenance, general operation and safety precautions
2. The warranty and limitation of liability (see reverse side) has been reviewed and understood by the owner/user.
3. In the event that this unit is to be used within a nuclear facility, the owner/user shall notify Ingersoll-Rand of such use so that Ingersoll-Rand may arrange for appropriate nuclear liability protection from the owner-licensee of the facility.
4. Ingersoll-Rand reserves the right to make design changes or modifications to Ingersoll-Rand products at anytime without incurring any obligation to make similar changes or modifications on previously sold units.

I hereby acknowledge acceptance of above and the conditions on reverse side.

Owner/User _____ Date _____

I hereby certify that the above is accurate and complete

Distributor/I-R Rep. _____ Date _____

COMPLETION OF THIS FORM VALIDATES THE WARRANTY

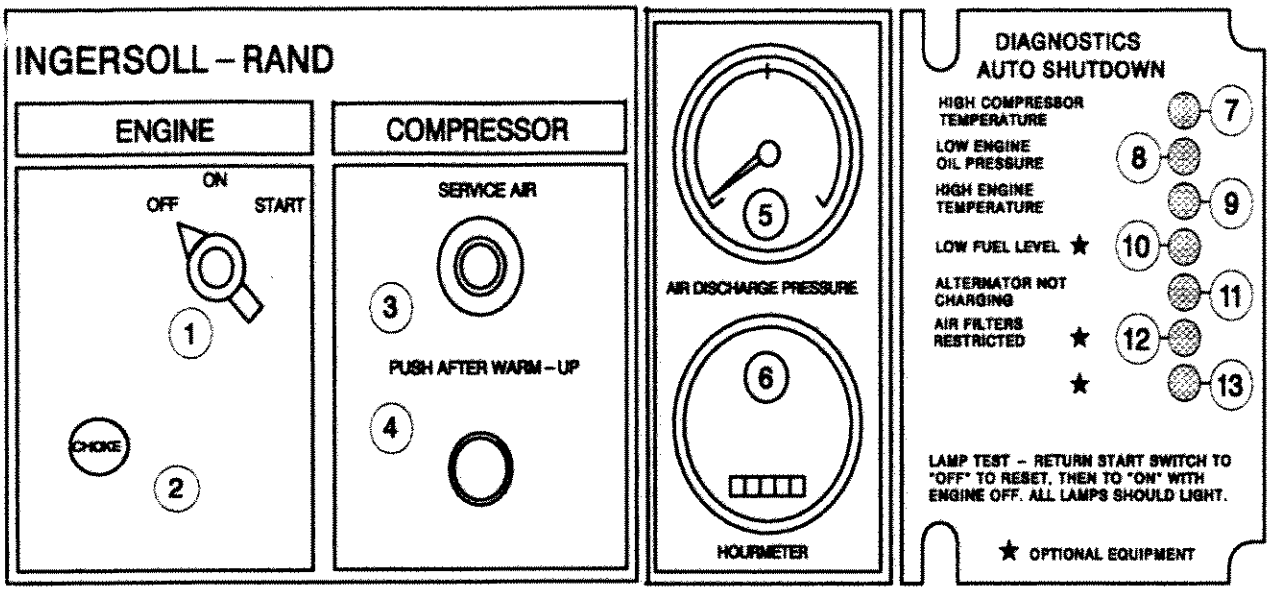
X-4051-C

---------- *fold* ----------

Ingersoll–Rand Company
Portable Compressor Division
P.O. Box 868
Mocksville, North Carolina 27028

Attention: Warranty Department

SECTION 4 – OPERATION



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Instrument Control Panel

1. Master Switch (Start) –

Rotate to "ON"; observe any lit Diagnostic Lamps. See Lamp Test Instructions. Rotate to "START" to crank engine; release when engine sustains firing.

2. Choke (Gasoline Engine Only) – (If equipped)

Pull out to enrich fuel mixture during cold starting. Push in gradually as engine warms up.

3. Service Air Button– Push After Warm–up (Optional)

A two–way valve that provides full air pressure at the service outlet.

4. Light Switch (Option, for Gauges) –

Otherwise, lights in gauges are controlled by Master Switch (1).

5. Air Discharge Pressure Gauge –

Indicates pressure in receiver tank, normally from 0 psi (kPa) to the rated pressure of the machine.

6. Hourmeter–

Records running time for maintenance.

DIAGNOSTICS/AUTO SHUTDOWN (Lamps) (optional)

7. High Compressor Temperature–

Glows when compressor discharge air temperature exceeds 248°F (120°C)±.

8. Low Engine Oil Pressure –

Glows when engine oil pressure drops below 12 psi (82 kPa)±.

9. High Engine Temperature –

Glows when engine coolant temperature is excessive. Oil cooled Engine: 266° F (130° C). Water cooled Engine: 230° F (110 °C).

10. Low Fuel Level (Optional) –

Glows when less than 1 gallon in tank.

11. Alternator Not Charging –

Indicates alternator or drive belt failure.

12. Air Filters Restricted (Optional) –

Indicates the air filters need servicing.

13. Any Special Option

OPTIONAL GAUGES – Not Shown

Engine Oil Pressure	Tachometer
Engine Temperature	Voltmeter

BEFORE TOWING

WARNING

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

Units equipped with hydraulic brakes:

•Check brake fluid level. Top off as required with DOT 3 brake fluid.

•Check condition of brake lines, hoses and cables. Repair or replace damaged parts.

•Attach brake actuator breakaway chain above hitch on towing vehicle.

CAUTION

– Position the tow vehicle to align its hitch with the pintle eye or coupler of the compressor.

– Engage the parking brake and chock the wheels 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, etc. Pull pin from tube of jack. Fold jack handle down and forward. Swing up jack tube and FULLY insert pin in tube.

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 running at full load). Do not overfill either the engine crankcase or the compressor lubricating oil system.

TOWING

WARNING

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 32 psi (220kPa).

– Do not tow this unit in excess of 50 mph (80 km/hr).

– Use a tow vehicle whose towing capacity is greater than the gross weight of this unit.

DISCONNECT

– Set the vehicle parking brake. Chock wheels of unit.

– Standing to the side, remove pin from tube of jack. As jack tube swings down, FULLY insert pin in the tube.

– Disconnect safety chains. Crank jack to raise eye or coupler from hitch. Tow vehicle can be moved.

UTILITY PACKAGE SET–UP

(no running gear)

The 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.

BEFORE STARTING

CAUTION

Do not connect the air discharge on this unit into a common header with any other unit of any description, or any other source of compressed air, without first making sure a check valve is used between the header and the unit. If this unit is connected with another unit, a safety hazard could occur.

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 mid–way on the sight gauge. Add oil if the level falls to the bottom of the sight gauge. Do not overfill.**

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 coonect 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

In freezing weather and if so equipped, flip HEATERS switch "On" and wait sixty (60) seconds. This applies heat to the control system components for easier starting. Leave this switch "On" while operating at these temperatures.

Flip the POWER switch to "On". All DIAGNOSTICS lamps will light (glow) for two (2) seconds. Then all lamps should go off except for ALTERNATOR NOT CHARGING and LOW ENGINE OIL PRESSURE.

Cold Weather Starting:

Open manual blowdown valve, if so equipped, and press ether inject button. Use ether sparingly. Close manual blowdown valve after engine is running.

If equipped with the optional cold starting aid (ether), operate the valve once or twice ONLY while the engine is cranking.

CAUTION

Ether is an extremely volatile, highly flammable gas. Use sparingly! If too much is injected, the uncontrolled explosion may result in costly damage to the engine.

Press both the START and the BYPASS buttons to crank the engine. DO NOT OPERATE THE STARTER MOTOR FOR MORE THAN TEN (10) SECONDS WITHOUT ALLOWING AT LEAST ONE MINUTE COOLING TIME BETWEEN START ATTEMPTS.

– Release the START button when the engine starts and sustains running. If the engine does not start after a couple of attempts, refer to Trouble Shooting Section.

– Release the BYPASS button after two (2)to three (3) seconds.

– All DIAGNOSTIC lamps should be off. If not, stop the machine and investigate. If opened above, close manual blowdown valve.

– If equipped with optional gages, watch the gauges while the unit warms up for five (5) to ten (10) minutes or until the coolant temperature reaches 140° F (60° C).

– Push the SERVICE AIR button. The engine should go to full speed and the discharge pressure rise to slightly over rated pressure. If there is no air being consumed, the compressor will unload (intake be throttled or closed) and the engine speed drop to the no load speed.

Compressor is now ready to furnish air when the service valve is opened.

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

Close air service valve.

Allow the unit to run at idle for 3 to 5 minutes to reduce the engine temperatures.

Turn Power Switch to "OFF" position.

When the engine stops, automatic blowdown valve should relieve system air pressure. If automatic blowdown valve malfunction is suspected, open manual blowdown valve if so equipped.

Never allow unit to sit under pressure when engine is not running.

EQUIPMENT PROTECTION

WARNING

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) High engine coolant temperature in the engine.

(2) Low engine oil pressure, in the engine.

(3) Low Fuel Level.

High Discharge AIR Temperature

(4) At the airend outlet.

(5) In the safety valve connection on the separator tank.

AUTOMATIC SHUTDOWN SYSTEM

The operation of the automatic shutdown system should be checked every month, or whenever it appears not to be operating properly. The operation of these switches is extremely important in order to protect the engine and the compressor airend. The engine oil pressure switch prevents the engine from being damaged due to oil starvation. Three switches help protect the engine and compressor from high temperatures.

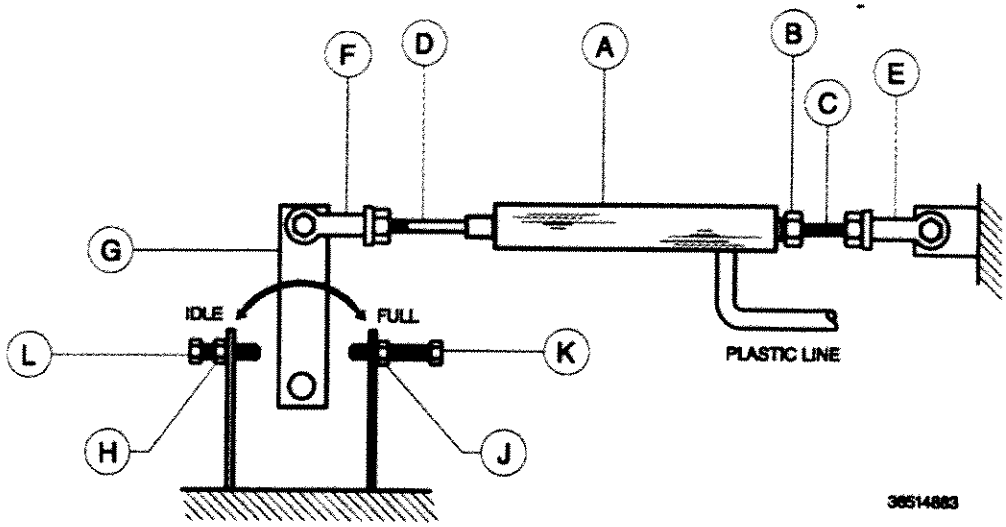
Once a month remove a wire from the engine oil pressure switch to check the shutdown solenoid for proper operation.

Once a year, the temperature switches should be tested by removing from the unit. The "fusible" (non–resettable) switches can be checked visually or with an ohmmeter (0 ohms = good). The "resettable" switches must be tested with an ohmmeter. There should be 0 ohms between the wire terminals. When the switch is placed in the heated oil bath and its contact open, the ohmmeter should indicate infinite ohms.

The high discharge air temperature switch will require approximately 248°F (120°C) to actuate. The engine coolant temperature switch will require approximately 220°F (104° C) to actuate. Replace any defective switch before continuing to operate the unit.

A low oil pressure switch may be tested by removing it and connecting it to a source of controlled pressure while monitoring an ohmmeter connected to the switch terminals. As pressure is applied slowly from the controlled source, the switch should close at 12 psi (55 kPa).

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

1. 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. At air cylinder (A), loosen jam nut (B) on adjusting rod (C). Turn rod (C) until it just touches the piston inside of the cylinder. This is determined by the movement of the air cylinder piston rod (D). Rod (D) should be fully retracted and just begin to extend when the adjusting rod (C) is properly set.

4. Lock jam nut (B).

After Starting Unit

5. Allow unit to warm up at an engine speed greater than IDLE speed (*) for at least five minutes. Do this by loosening jam nut (H) on the IDLE screw (L). Turn the IDLE screw until the speed is properly set (*).

6. 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 120–122 psi (825–840 kPa). Tighten the pressure regulator jam nut. Replace cover.

7. Open the service valve and adjust the discharge pressure to 100 psi (700 kPa). Now turn adjusting rod (C) until the proper engine FULL speed setting (*) is reached.

8. If necessary, loosen jam nut (J) on FULL speed screw (K) and turn screw until it hits a stop. Recheck the FULL speed setting and reset if required. Tighten jam nuts (J) and (H).

9. Close the service valve and recheck IDLE speed (*). If necessary, adjust speed using screw (L). Tighten jam nut (H).

10. 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.

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 (1,2,3 etc.) 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.

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

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

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 5 – GENERAL DATA

ENGINE (Diesel) Water Cooled

Manufacturer	John Deere
Model	4039D
Air Delivery – cfm (litres/sec)	250 (117)
Engine Speed – RPM (Full Load)	2500
– RPM (No Load)	1600
Electrical System	12 VDC

COMPRESSOR

Rated Operating Pressure – psi (kPa)	100 (700)
Safety Valve Setting – psi (kPa)	150 (1030)

FLUID CAPACITIES

Compressor Lubricant	21 quarts (20 litres)
Engine Lube	9 quarts (8.5 litres)
Fuel Tank (Use 2–D Diesel Fuel)	30 U.S. gal. (114 litres)

UNITS MEASUREMENTS/WEIGHTS

Overall Length	12.5 feet (3.81 meters)
Overall Height	6.2 feet (1.88 meters)
Overall Width	6.9 feet (1.93 meters)
Track Width	5.3 feet (1.63 meters)
Net Weight (less fuel) pounds (kg)	2875 pounds (1310 kg)

RUNNING GEAR

Tire Size	P225/75R x 15
Inflation Pressure (Cold)	32 psi (220 kPa)
Towing Speed (Maximum)	50 mph (80 km/hr)

CAUTION: Any departure from the specifications may make this equipment unsafe.

EXPENDABLE SERVICE PARTS

Compressor Oil Filter Element	35296920
Compressor Oil Separator Element	36788644
Air Cleaner Element (compressor)	35318252
Air Cleaner Element (engine)	35291970

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. The optimum operating level is midway of the sight tube on the side of the receiver tank. See the decal beside the sight tube. If the oil level is not in the "OK" range, make appropriate corrections (Add or Drain). A totally filled sight tube in which the level is not visible indicates an over–full condition and requires that oil be drained.

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 re-set after the main power switch is turned to "OFF."

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

1. Loosen outer wing nut and remove with cover. Remove Element.
2. Inspect air cleaner housing for any condition that might cause a leak and correct as necessary.
3. 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.
4. 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.

OIL FILTER ELEMENT

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.

1. Open the service air valve(s) to ensure that system is relieved of all pressure. Close the valve(s).

2. 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.

RADIATOR

NOTICE

The use of water alone in this engine can result in major engine failure.

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.

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 nd 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.

NOTICE

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.

1. 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.

3. 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

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.

- **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:

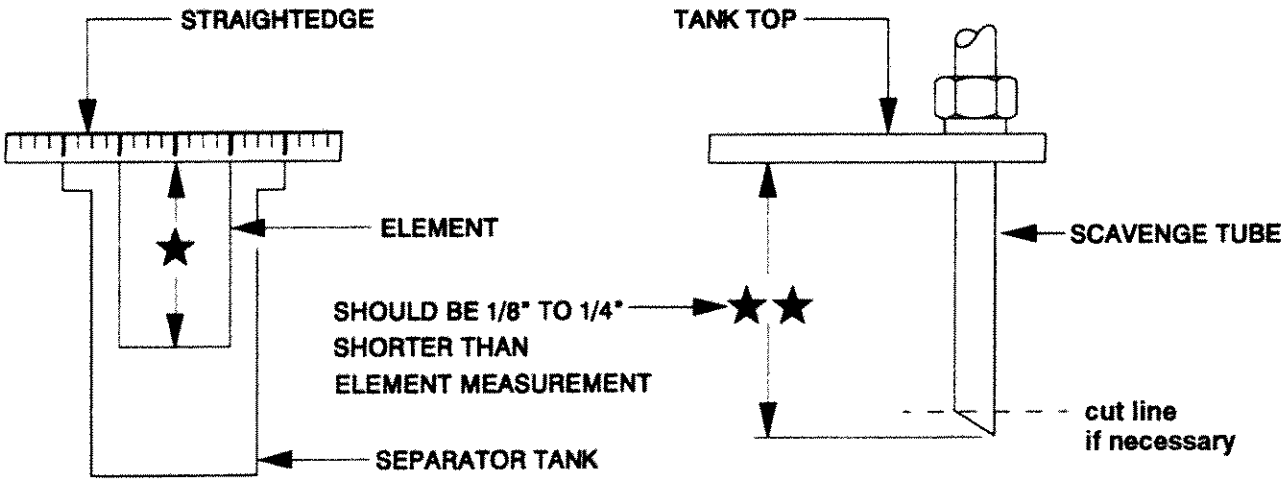
- Ensure the tank pressure is zero.
- Disconnect the hose from the scavenge tube.
- Remove scavenge tube from tank cover.
- Disconnect service line from cover.
- Remove cover mounting screws.
- Remove cover and element.
- Remove any gasket material left on cover or tank.
- Install new element.

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 (See Fig. 4.1).
- 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.



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.

NOTE: Excessive oil carry–over may be caused by an oil–logged 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.

1. 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.

2. 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

1. **The sheet metal should be washed and clean of foreign material and then thoroughly dried.**
2. **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.**
10. **Apply any of Duponts Topcoat Finishes such as Imron™ or Centari™ according to the label instructions.**

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

PREVENTIVE MAINTENANCE SCHEDULE

If operating in extreme environments (very hot, cold, dusty or wet), these time periods should be reduced.

	Daily	Wkly	MO.	3 MO. 500 HRS	6 MO. 1000 HRS	12 MO. 2000 HRS.
COMPRESSOR OIL LEVEL	C					
ENGINE OIL LEVEL	C					
*RADIATOR COOLANT LEVEL	C					
GAUGES/LAMPS	C					
*AIR CLEANER SERVICE INDICATORS	C					
FUEL TANK (FILL AT END OF DAY)	C				DRAIN	
*FUEL/WATER SEPARATOR DRAIN	C					
AIR CLEANER PRECLEANER DUMPS		C				
FAN ALTERNATOR BELTS		C				
BATTERYCONNECTIONS/ELECTROLYTE		C				
TIRE PRESSURE AND SURFACE		C				
*WHEEL LUG NUTS			C			
HOSES (OIL,AIR,INTAKE,ETC.)			C			
AUTOMATIC SHUTDOWN SYSTEM TEST			C			
AIR CLEANER SYSTEM VISUAL			C			
COMPRESSOR OIL COOLER EXTERIOR			C	CLEAN		
*ENGINE RADIATOR/OIL COOLER EXTERIOR			C	CLEAN		
FASTENERS				C		
AIR CLEANER ELEMENTS				WI		
*FUEL/WATER SEPARATOR ELEMENT					R	
COMPRESSOR OIL FILTER ELEMENT				R		
COMPRESSOR OIL					R	
*WHEELS (BEARINGS, SEALS, ETC.)					C	
*ENGINE COOLANT TEST					C	R
SHUTDOWN SWITCH SETTINGS TEST						C
SCAVENGER ORIFICE & RELATED PARTS						CLEAN
OIL SEPARATOR ELEMENT						R
ENGINE (OIL CHANGES, FILTERS, ETC.)	REFER TO ENGINE OPERATOR'S MANUAL					

*Disregard if not appropriate for this particular machine. R=Replace

C=Check (and adjust or replace if necessary). WI=OR when indicated.

Ingersoll-Rand

36509966

Unit _____ Date: _____

Hours _____ Serviceman _____

LUBRICATION

FLUIDS AND LUBRICANTS TABLE

ITEM	FLUID	AMBIENT TEMP.	SPECIFICATION
Compressor Models: VHP–(200 + psi) HP–(150 psi) XP–(125 psi) P–(100 psi)	Lubricant	–10°F to 125°F (–23°C to 52°C)	• Dexron ® or Dexron ® II ATF • MIL–L–46152 SAE 10W, API CC
		–40°F to 125 ° F (–40°C to 52°C)	• I–R P/N 35382472 Synthetic Fluid
XHP (300 psi)		–10°F to 125°F (–23°C to 52°C)	• Dexron® II ATF • I–R XHP 505 Synthetic or Equivalent
XHP (350 psi)		–10°F to 100°F (–23°C to 38°C) 70°F to 125°F (21°C to 52°C)	• I–R XHP 505 Synthetic or Equivalent • I–R XHP 1001 Synthetic or Equivalent
Engine:	• Oil • Coolant • Fuel		
Running Gear • Wheel Bearings • Other • Hydraulic Brakes	Grease Grease Fluid	All All All	MIL–G–10924 Multi–Purpose Dot 3 or 4

DEXRON® – Reg. T.M. of General Motors Corp.

NOISE EMISSION CONTROL MAINTENANCE LOG

COMPRESSOR MODEL _____

SERIAL NO. _____

USER UNIT NO. _____

UNIT IDENTIFICATION

ENGINE MAKE & MODEL: _____

SERIAL NO.: _____

PURCHASER OR OWNER: _____

ADDRESS: _____

_____

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 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.

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. (40CFR204.58-1).

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 below 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. Detailed instructions on the maintenance items below are given on the 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
H.	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 sealing 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 systems 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.

MAINTENANCE RECORD FOR NOISE EMISSION CONTROL

ITEM NO.	DESCRIPTION OF WORK OR COMMENTS	HOURMETER READING	MAINT/INSPECT DATE	LOCATION CITY/STATE	WORK DONE BY (NAME)

SECTION 7 – 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.

NOTICE

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

NOTICE

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.

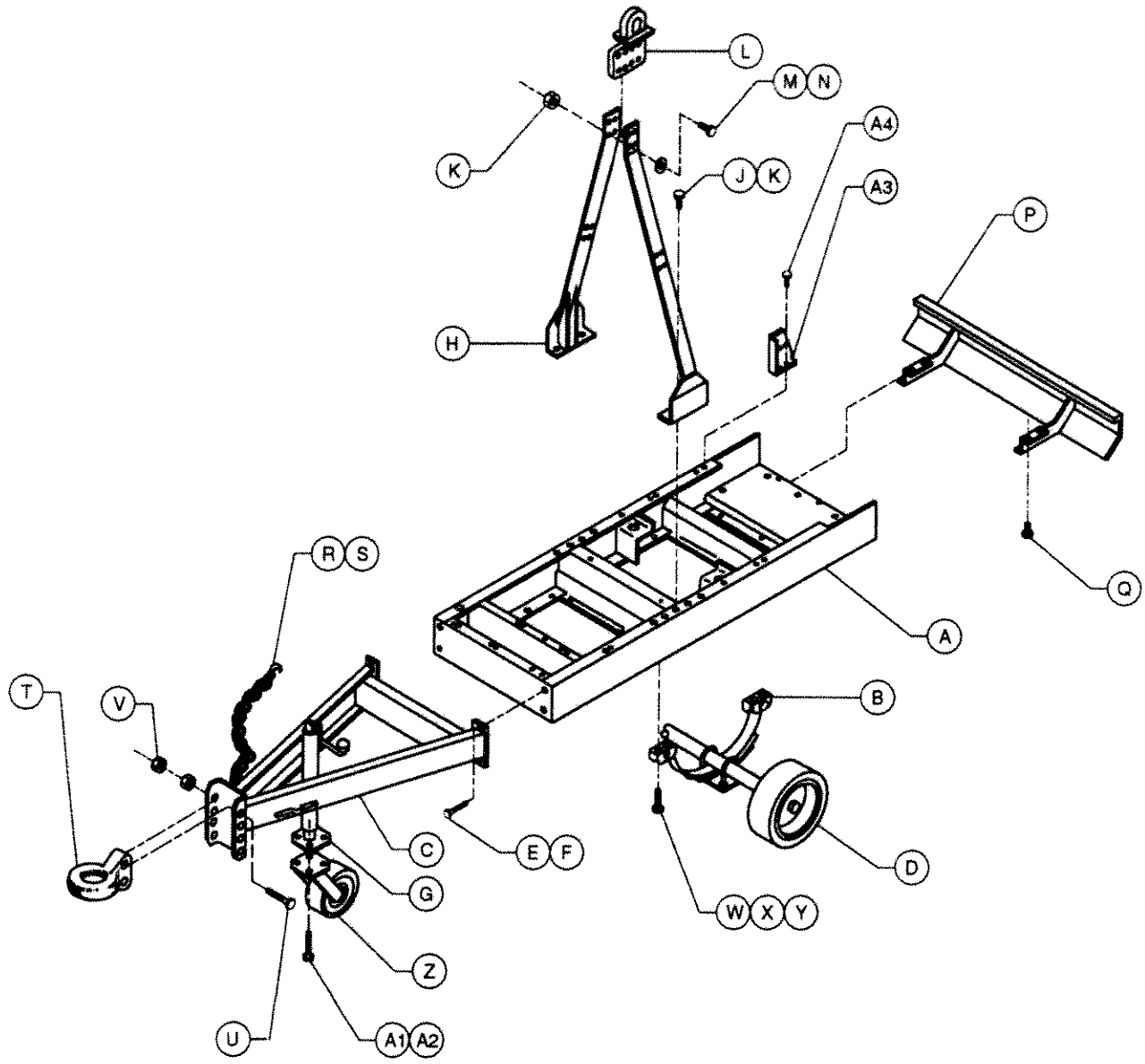
Your nearest sales office, autonomous company or authorized distributor must first contact the Parts Service Department at the factory at which your portable air compressor was manufactured for an airend exchange number. The airend must be tagged with this preassigned number and returned to the factory 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.

SECTION 9
PARTS LIST

PARTS LIST

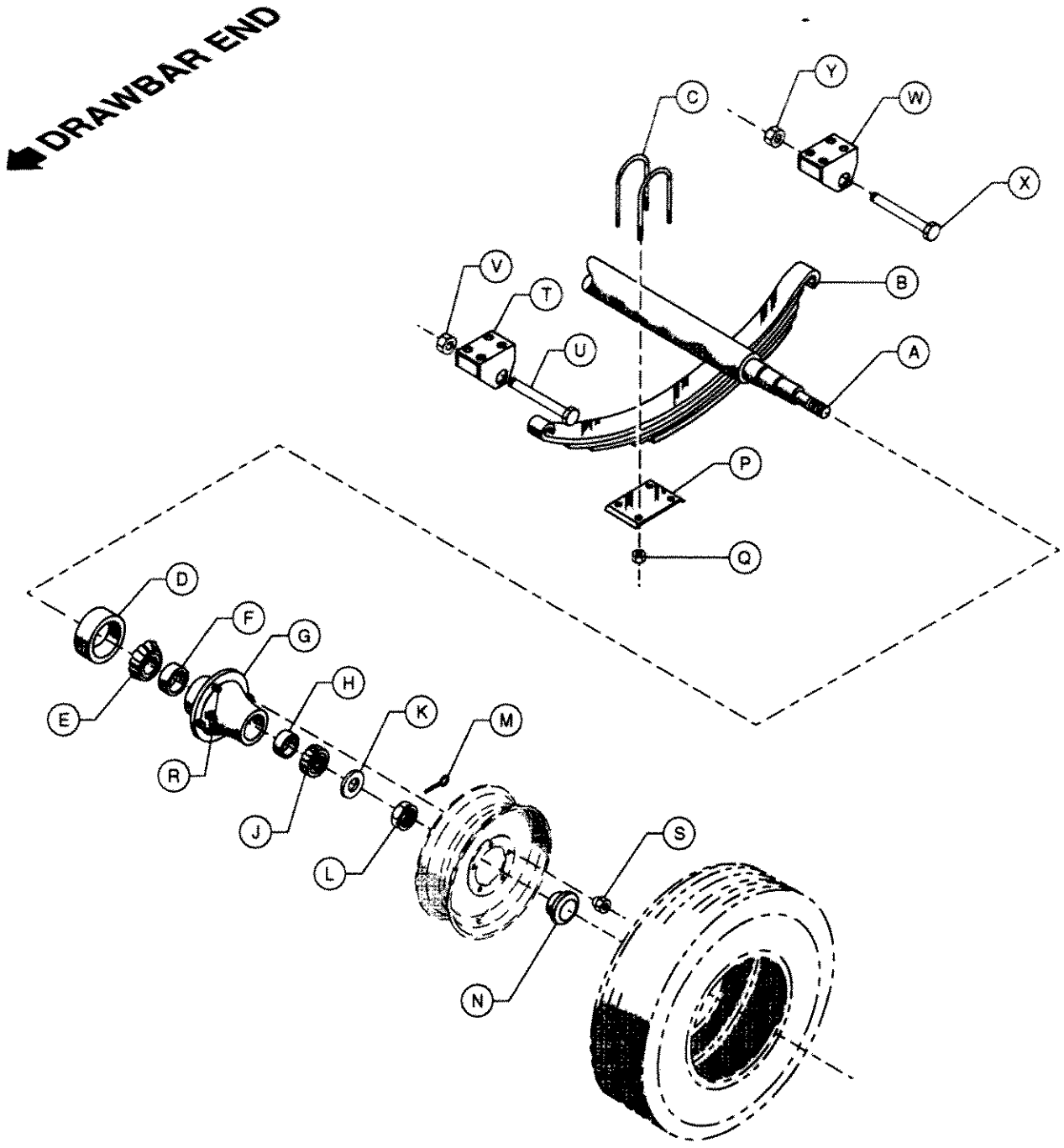
PARTS LIST



INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION FRAME AND RUNNING GEAR			
DATE/DWN BY: 1/27/94	REV: A	DATE/CHKD BY: 4/95	DATE/APVD BY:
MODEL NO. P-250AWJD	ILLUSTRATION NO. 36511723	SHEET NO. 1 of 2	E/C 27702

ITEM	C.P.N.	QTY	DESCRIPTION
A	36799823	1	FRAME
B	36846772	1	RUNNING GEAR
C	36865046	1	DRAWBAR
D	35046275	2	TIRE & WHEEL ASSY
E	36A2A275Z1	4	SCREW
F	35336700	4	NUT
G	36851285	1	JACK ASSY
H	36793347	2	LIFTING BAIL
J	36793040	4	SCREW
K	36793032	8	NUT
L	36779791	1	OFFSET LIFTING EYE
M	36765121	4	SCREW
N	12M5L29M3	4	WASHER
P	36776649	1	BUMPER
Q	35148030	4	SCREW
R	35610377	2	CHAIN ASSY
S	35372432	2	LINK COUPLING
T	35605187	1	PINTLE EYE
U	35376094	2	SCREW
V	16M4JC26M3	4	NUT
W	36763688	8	SCREW
X	11A5D5Z1	8	WASHER
Y	36770386	8	NUT
Z	36854610	1	CASTER WHEEL ASSY
A1	35144344	4	SCREW
A2	35145077	4	NUT
A3	36791564	1	BRACKET
A4	35130301	2	SCREW

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DESCRIPTION: FRAME AND RUNNING GEAR				
DATE/DWN BY: 1/27/94 H	REV: A	DATE/CHKD BY:	DATE/APVD BY:	
MODEL NO.: P-250AWJD	ILLUSTRATION NO.: 36511723	SHEET NO.: 2 of 2	E/C: 27702	



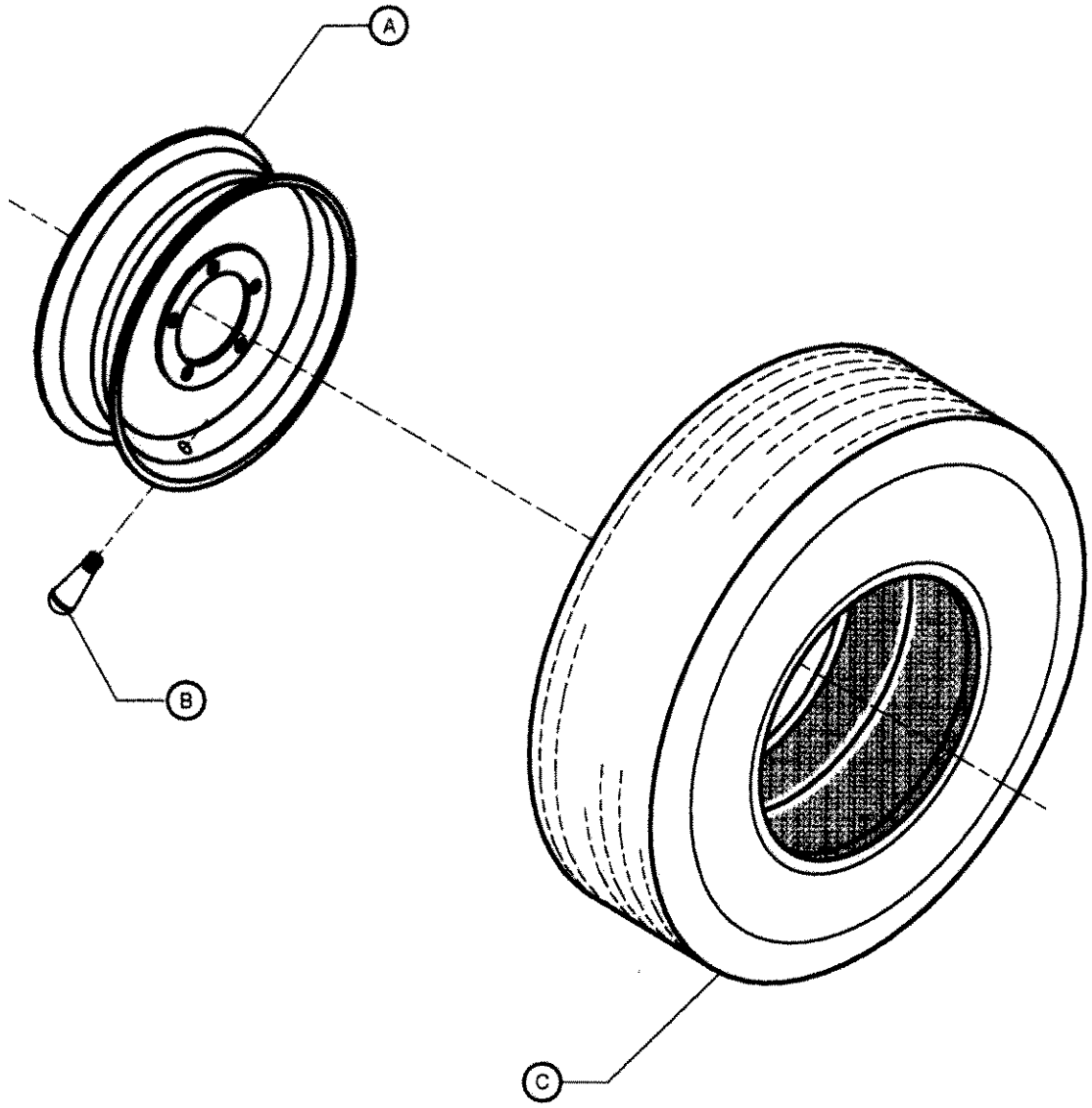
RUNNING GEAR COMPLETE
PART NO. 36846772
DEXTER 5-LUG

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DESCRIPTION RUNNING GEAR COMPLETE (DEXTER)				
DATE/DWN BY: 8/17/93 d	REV: C	DATE/CHKD BY 11/95	DATE/APVD BY DF	
MODEL NO. GENSETS SM PORTS	ILLUSTRATION NO. 35832468	SHEET NO. 1 of 2	E/C 26381	

ITEM		C.P.N.	QTY	DESCRIPTION
A		36848174	1	AXLE
B		36848166	2	SPRING
C		35315118	4	U-BOLT
D	★	35315142	2	GREASE SEAL
E	★	35361864	2	BEARING CONE
F	★	35361872	2	BEARING CUP
G	★	35361880	2	HUB
H	★	35315183	2	BEARING CUP
J	★	35315191	2	BEARING CONE
K		35315209	2	SPINDLE WASHER
L		35315217	2	SPINDLE NUT
M		35315225	2	COTTER PIN
N	★	35315233	2	GREASE CAP
P		35315241	2	TIE PLATE
Q		35315258	8	NUT
R	★	35361898	10	WHEEL STUD
S	★	35315274	10	WHEEL NUT
T		35326958	2	FRONT HANGER
U		35315340	2	SHACKLE BOLT
V		35315357	2	SHACKLE NUT
W		35326966	2	REAR HANGER
X		35315365	2	KEEPER BOLT
Y		35315373	2	KEEPER NUT
★		35085398		HUB KIT

RUNNING GEAR COMPLETE
PART NO. 36846772
DEXTER 5-LUG

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: RUNNING GEAR COMPLETE (DEXTER)			
DATE/DWN BY: 8/17/93 H	REV: D	DATE/CHKD BY:	DATE/APVD BY:
MODEL NO. GENSETS SM PORTS	ILLUSTRATION NO. 35832468	SHEET NO. 2 of 2	E/C 26381



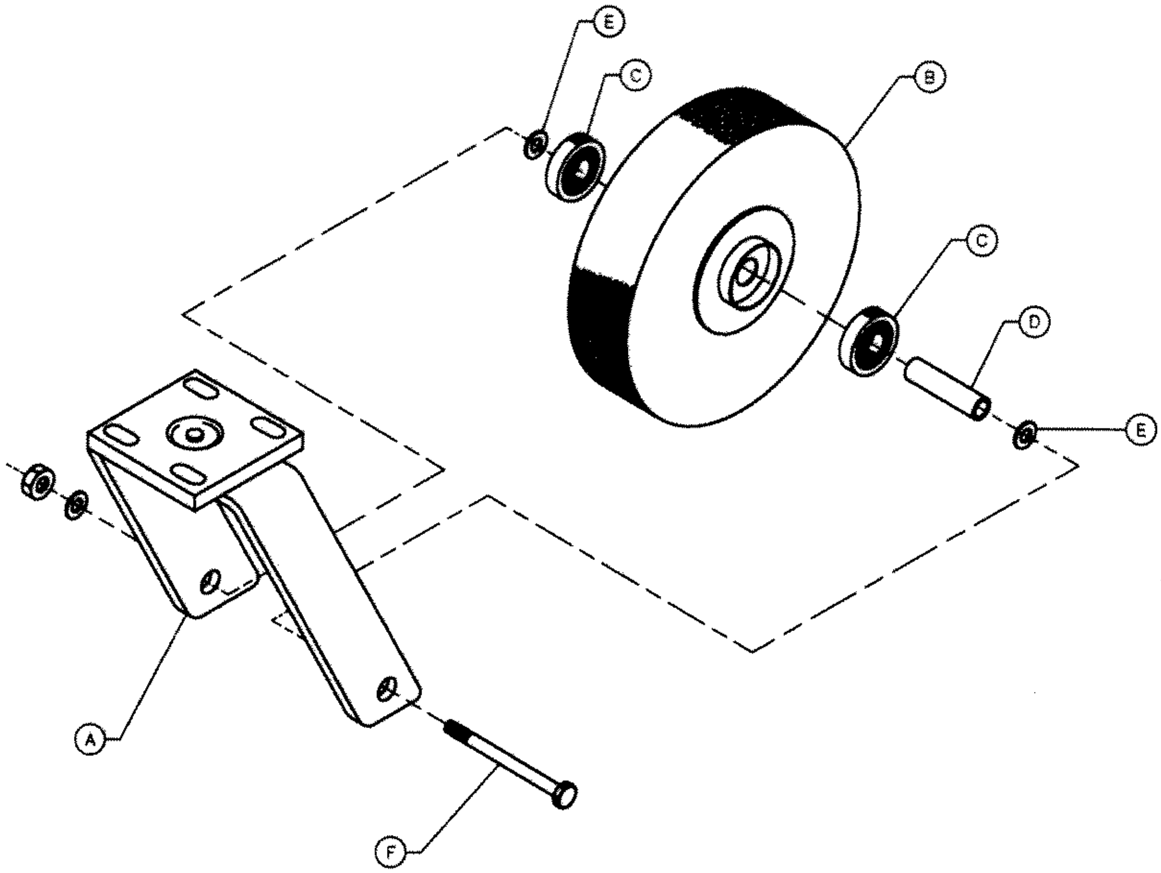
TIRE AND WHEEL ASSEMBLY 35046275

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: TIRE AND WHEEL ASSY.			
DATE/DWN BY: 7/29/93 td	REV: B	DATE/CHKD BY: 11/9/95	DATE/APVD BY:
MODEL NO.	ILLUSTRATION NO. 36518983	SHEET NO. 1 of 2	E/C 27493

ITEM	C.P.N.	QTY	DESCRIPTION
A	35277706	1	WHEEL
B	35282565	1	VALVE STEM
C	35291988	1	TIRE

TIRE AND WHEEL ASSEMBLY 35046275

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: TIRE AND WHEEL ASSY.			
DATE/DWN BY: 7/29/93	REV: B	DATE/CHKD BY: 10/95	DATE/APVD BY:
MODEL NO.	ILLUSTRATION NO. 36518983	SHEET NO. 2 of 2	E/C 27493



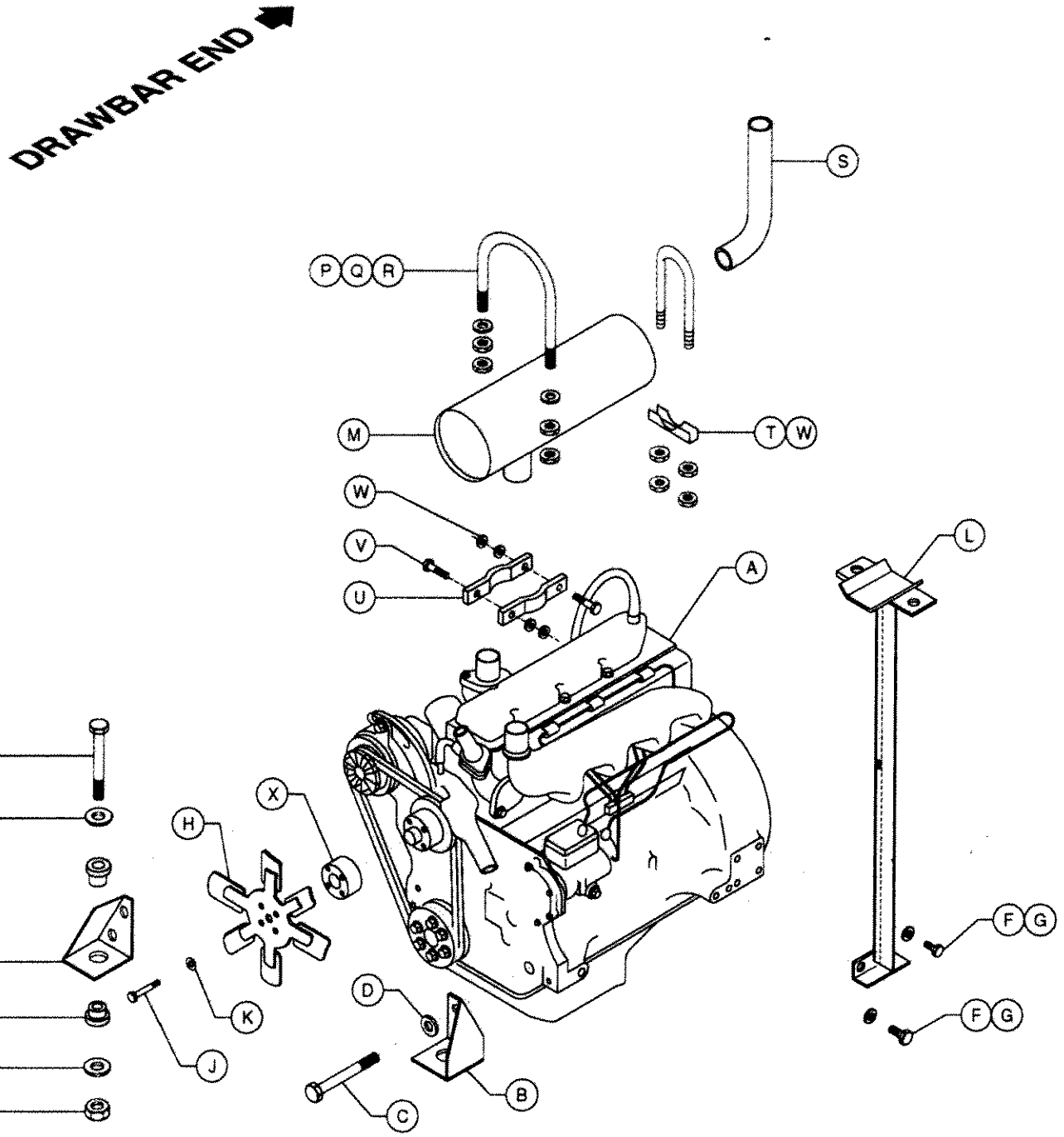
CASTER WHEEL ASSEMBLY 36854610

INGERSOLL–RAND COMPANY PORTABLE COMPRESSOR DIVISION					
DESCRIPTION	SOLID CASTER ASSEMBLY				
DATE/DWN BY: 8/17/93	REV: A	DATE/CHKD BY:	DATE/APVD BY:		
MODEL NO. P130BWJD P250WJD	ILLUSTRATION NO. 36521722	SHEET NO. 1 of 2	E/C 27219		

ITEM	C.P.N.	QTY	DESCRIPTION
A	36856193	1	YOKE ASSY
B	36856201	1	CASTER WHEEL
C	35362326	2	BALL BEARING
D	35362342	1	SPANNER BUSHING
E	35362334	2	THRUST WASHER
F	35362359	1	AXLE ASSY

CASTER WHEEL ASSEMBLY 36854610

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: SOLID CASTER ASSEMBLY			
DATE/DWN BY: 8/17/93 B	REV: A	DATE/CHKD BY: 10/19/93	DATE/APVD BY:
MODEL NO.: P130BWJD P250WJD	ILLUSTRATION NO.: 36521722	SHEET NO.: 2 of 2	E/C: 27219



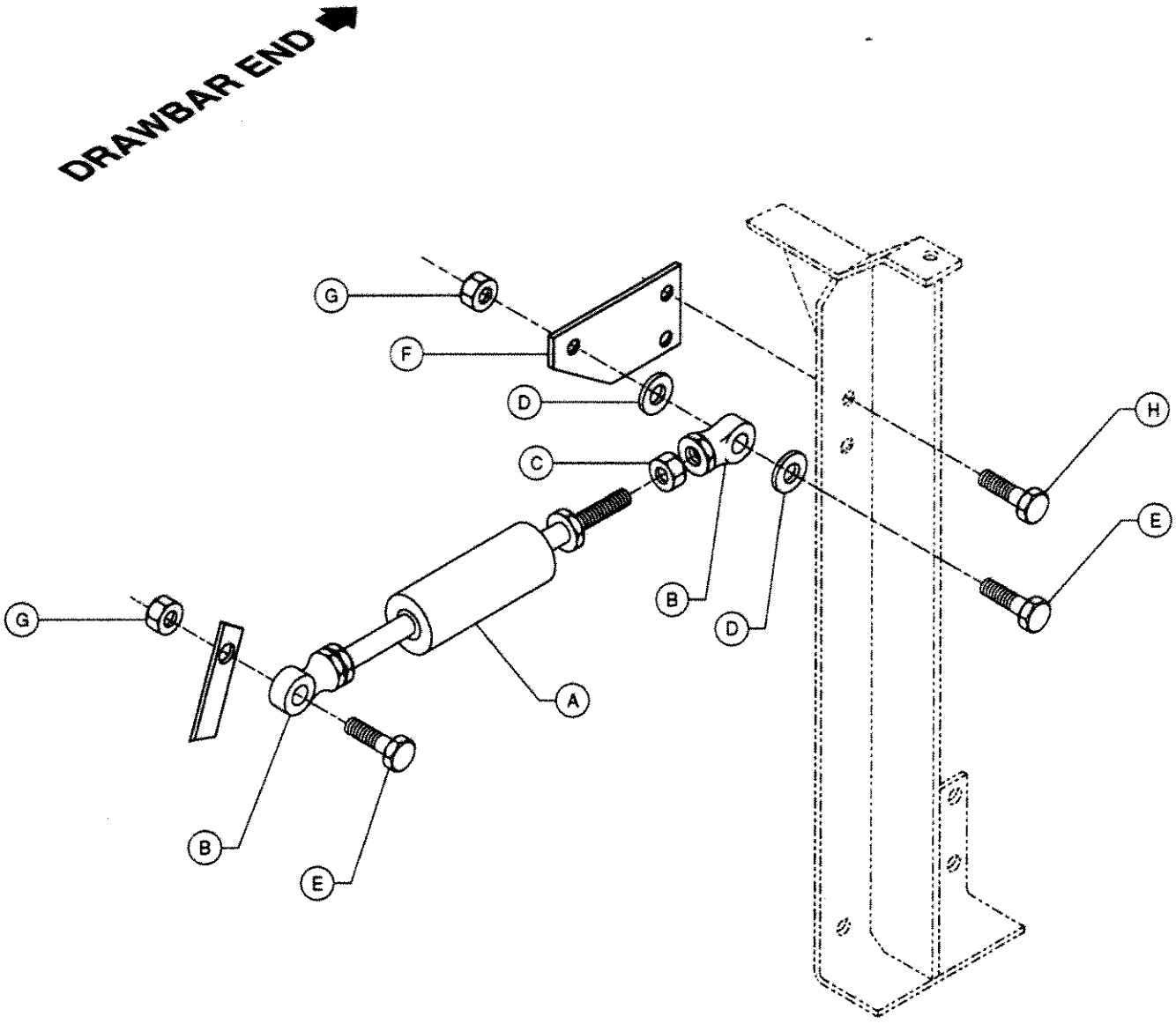
INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DESCRIPTION: ENGINE COMPLETE				
DATE/DWN BY: 12/5/91 H	REV: C	DATE/CHKD BY: 88 10/95	DATE/APVD BY: JF	
MODEL NO.: P-250WJD	ILLUSTRATION NO.: 36516987	SHEET NO.: 1 of 2	E/C: 27468	

ITEM	C.P.N.	QTY	DESCRIPTION
A	36788065	1	ENGINE
B	35823707	1	LH FR ENG MOUNT
C	35A2D323Z1	4	SCREW
D	12A5D8Z1	4	WASHER
E	35823699	1	RH FR ENG MOUNT
F	35A2D217Z1	2	SCREW
G	11A5D6Z1	2	WASHER
H	36779239	1	FAN
J	35A2D66Z1	4	SCREW
K	12A5D3Z1	4	WASHER
L	36790210	1	MUFFLER SUPPORT
M	36797603	1	MUFFLER
N	16A4C8Z1	2	NUT
P	35851377	1	U-BOLT
Q	16A4C3Z1	4	NUT
R	11A5D4Z1	2	WASHER
S	36795755	1	TAIL PIPE
T	W57639	1	MUFFLER CLAMP
U	36796845	2	CLAMP
V	35A2D60Z1	2	SCREW
W	16A4C2Z1	6	NUT
X	36781045	1	FAN SPACER
Y	35272483	2	FRONT ISOLATOR MOUNT
Z	35A2D384Z1	2	SCREW
A1	35273937	4	WASHER

ENGINE OIL FILTER ELEMENT 35308048

ENGINE FUEL FILTER ELEMENT 35389527

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DESCRIPTION: ENGINE COMPLETE				
DATE/DWN BY: 12/5/91 H	REV: F	DATE/CHKD BY: [illegible]	DATE/APVD BY: [illegible]	
MODEL NO.: P-250WJD	ILLUSTRATION NO.: 36516987	SHEET NO.: 2 of 2	E/C: 28071	

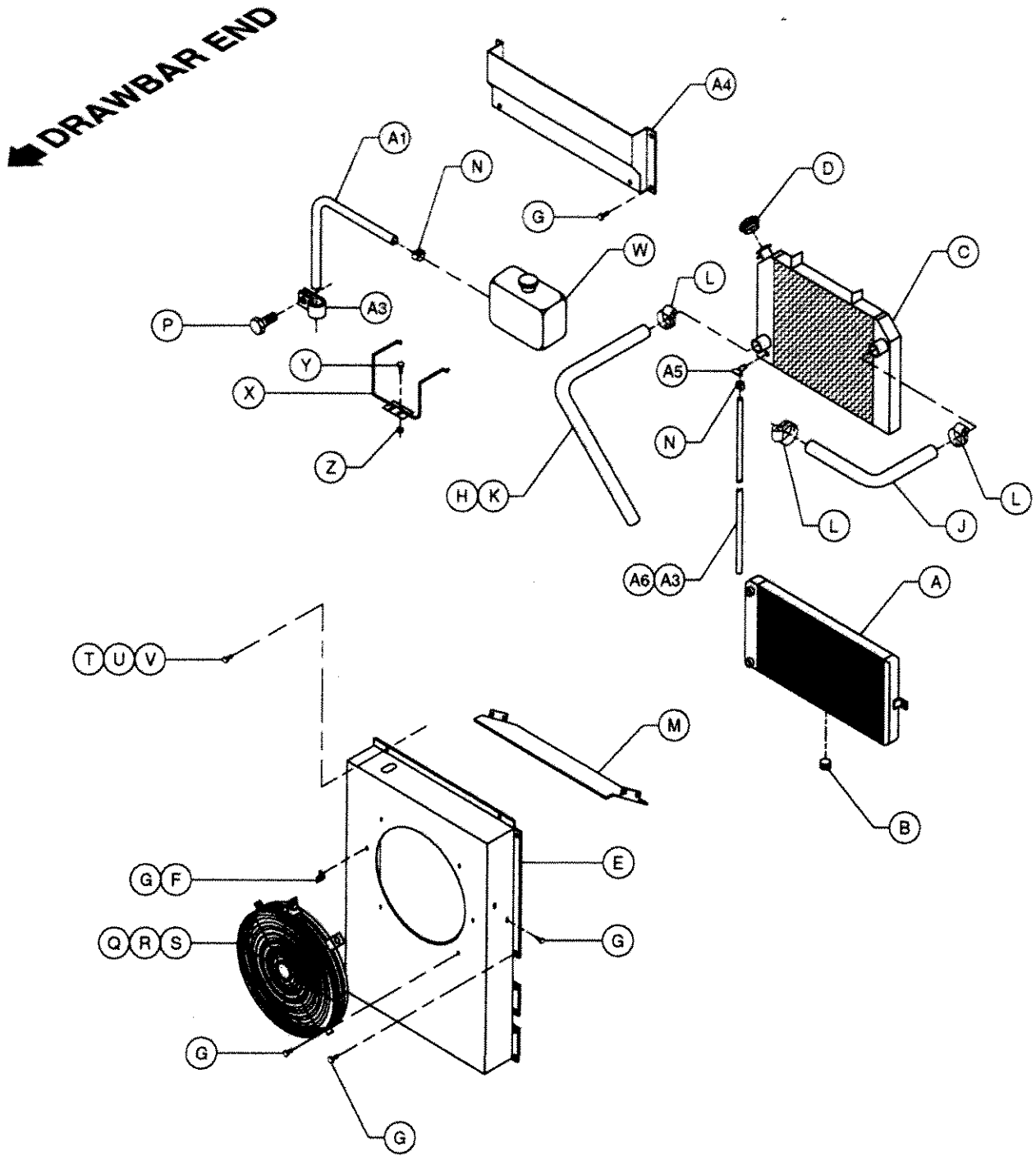


INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION SPEED CONTROL/REGULATION			
DATE/DWN BY: 10/16/91 tw	REV: B	DATE/CHKD BY: 11/95	DATE/APVD BY: JA
MODEL NO. P-250WJD	ILLUSTRATION NO. 36516995	SHEET NO. 1 of 2	E/C 27468

ITEM	C.P.N.	QTY	DESCRIPTION
A	35592435	1	CYLINDER
B	35328467	2	ROD END BEARING
C	23A4C2Z1	2	NUT
D	12A5D2Z1	2	WASHER
E	36771178	2	SCREW
F	36783389	1	BRACKET
G	36769032	2	NUT
H	92368687	2	SCREW

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

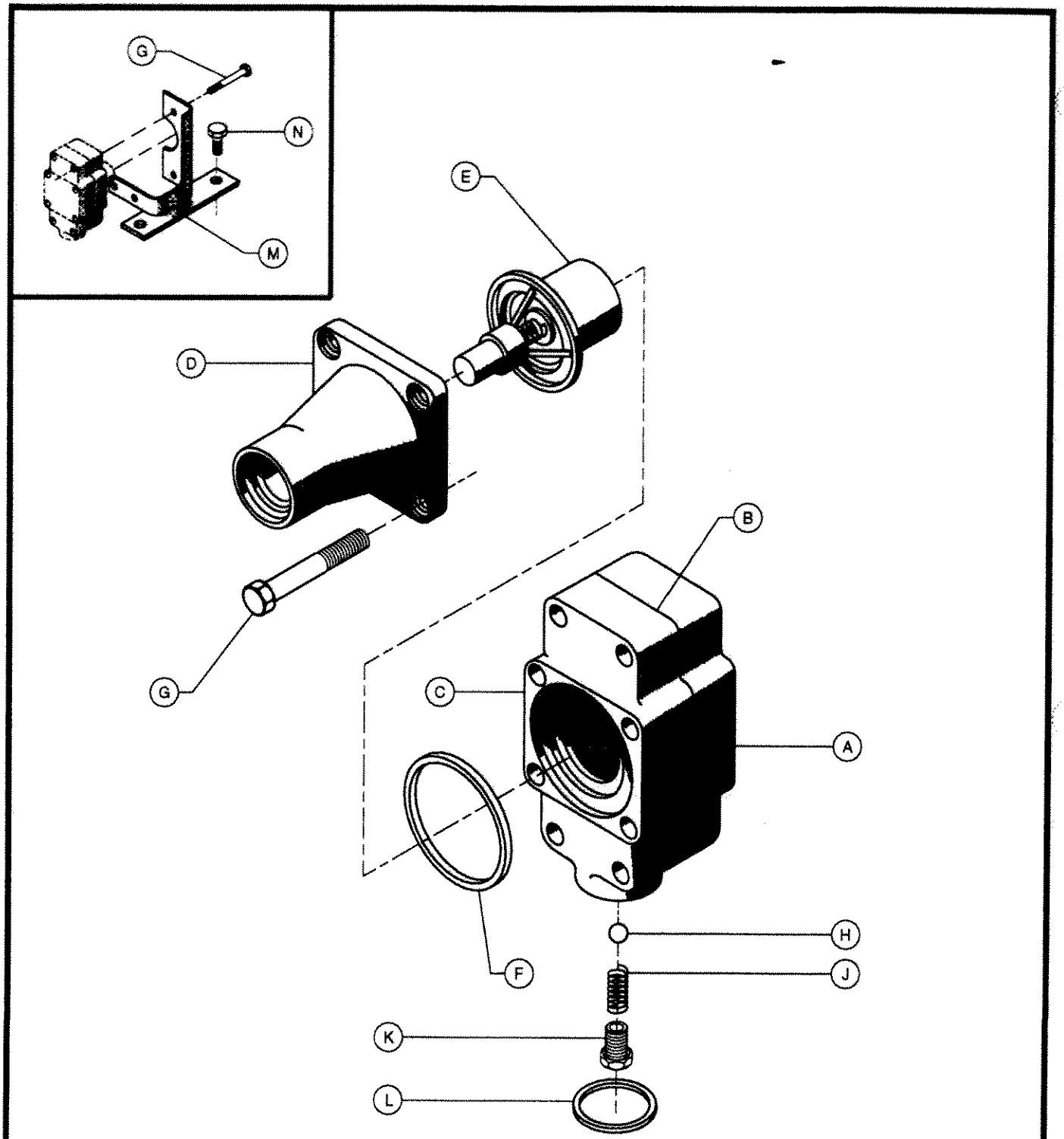
DESCRIPTION			
SPEED CONTROL/REGULATION			
DATE/DWN BY:	REV:	DATE/CHKD. BY	DATE/APVD BY
10/16/91	B		
MODEL NO.	ILLUSTRATION NO.	SHEET NO.	E/C
P-250WJD	36516995	2 of 2	27468



INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: LIQUID COOLING COMPLETE			
DATE/DWN BY: 1/28/94	REV: B	DATE/CHKD BY:	DATE/APVD BY:
MODEL NO.: P-250AWJD	ILLUSTRATION NO.: 36511749	SHEET NO.: 1 of 2	E/C: 27804

ITEM	C.P.N.	QTY	DESCRIPTION
A	36793560	1	OIL COOLER
B	34A7S3Z1	1	PLUG
C	36793552	1	RADIATOR
D	36785608	1	RADIATOR CAP
E	36843886	1	SHROUD
F	36843928	2	FAN GUARD SUPPORT
G	92368687	21	SCREW
H	36794139	1	BOTTOM RADIATOR HOSE
J	36794121	1	TOP RADIATOR HOSE
K	W86681	1	CLAMP
L	W86684	3	CLAMP
M	36843894	1	DIVERTING BAFFLE
N	35296342	3	CLAMP
P	W88421	1	CLAMP
Q	36783793	1	FAN GUARD
R	35144336	2	SCREW
S	35252600	2	NUT
T	36785327	2	SCREW
U	12A5D2Z1	4	WASHER
V	36769032	2	NUT
W	36782043	1	OVERFLOW BOTTLE
X	36840619	1	OVERFLOW BOTTLE MOUNT
Y	36769024	1	SCREW
Z	36769032	1	NUT
A1	35360775	21"	OVERFLOW TUBE
A2			
A3	35356583	2	CLAMP
A4	36788875	1	TOP COOLER BAFFLE
A5	36782167	1	DRAIN COCK
A6	35285600	30"	DRAIN TUBE

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: LIQUID COOLING COMPLETE			
DATE/DWN BY: 1/28/94 H	REV: B	DATE/CHKD BY:	DATE/APVD BY
MODEL NO.: P-250AWJD	ILLUSTRATION NO.: 36511749	SHEET NO.: 2 of 2	E/C: 27804



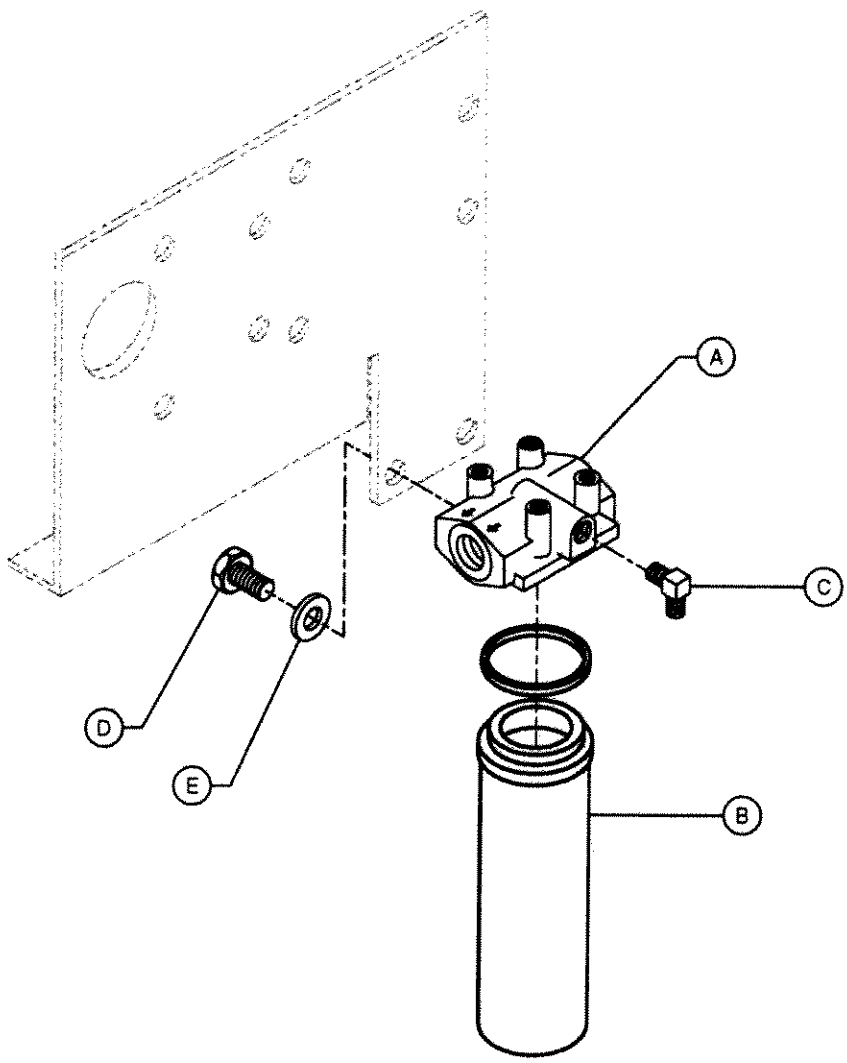
OIL TEMPERATURE BYPASS VALVE
ASSEMBLY 36777365

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DESCRIPTION OIL TEMPERATURE BYPASS VALVE				
DATE/DWN BY: 8/20/93 H	REV: C	DATE/CHKD BY: [illegible]	DATE/APVD BY: [illegible]	
MODEL NO. P-130BWJD P-250WJC	ILLUSTRATION NO. 36514073	SHEET NO. 1 of 2	E/C 26162	

ITEM	C.P.N.	QTY	DESCRIPTION
A	36776714	1	BODY
B	35584242	1	GASKET
C	36788289	1	BODY
D	36765832	1	COVER
E	36782019	1	ELEMENT
F	20A11EM231	1	O-RING
G	36786382	8	SCREW
H	35288448	1	BALL
J	35379940	1	SPRING
K	36788164	1	PLUG
L	36788172	1	SEAL
M	36781961	1	BRACKET
N	35279025	2	SCREW

OIL TEMPERATURE BYPASS VALVE ASSEMBLY 36777365

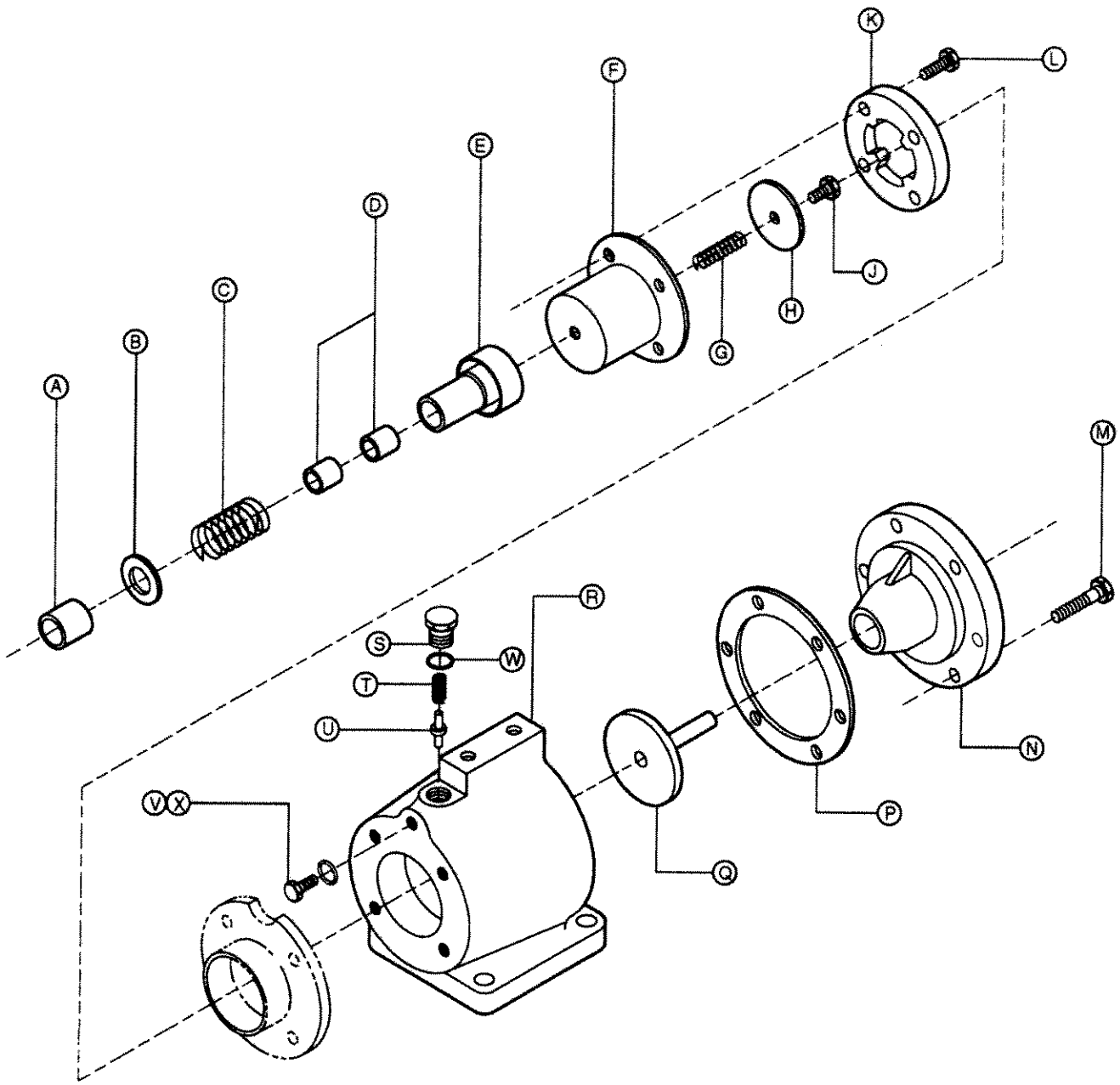
INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION OIL TEMPERATURE BYPASS VALVE			
DATE/DWN BY: 8/20/93 H	REV: C	DATE/CHKD BY:	DATE/APVD BY:
MODEL NO. P-130BWJD P-250WJD	ILLUSTRATION NO. 36514073	SHEET NO. 2 of 2	E/C 26162



INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION OIL FILTER ASSEMBLY			
DATE/DWN BY: 2/26/91 bl	REV: D	DATE/CHKD BY: 10/95	DATE/APVD BY
MODEL NO. P-250WJD	ILLUSTRATION NO. 36515922	SHEET NO. 1 of 2	E/C 26215

ITEM	C.P.N.	QTY	DESCRIPTION
A	35355460	1	HEAD ASSEMBLY
B	35296920	1	OIL FILTER ELEMENT
C	35294750	1	FITTING
D	32M2AB409M3	2	SCREW
E	12A5D4Z1	2	WASHER

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DESCRIPTION: OIL FILTER ASSEMBLY				
DATE/DWN BY: 2/26/91	REV: D	DATE/CHKD BY:	DATE/APVD BY:	
MODEL NO.: P-250WJD	ILLUSTRATION NO.: 36515922	SHEET NO.: 2 of 2	E/C: 26215	



UNLOADER VALVE ASSEMBLY 35060631

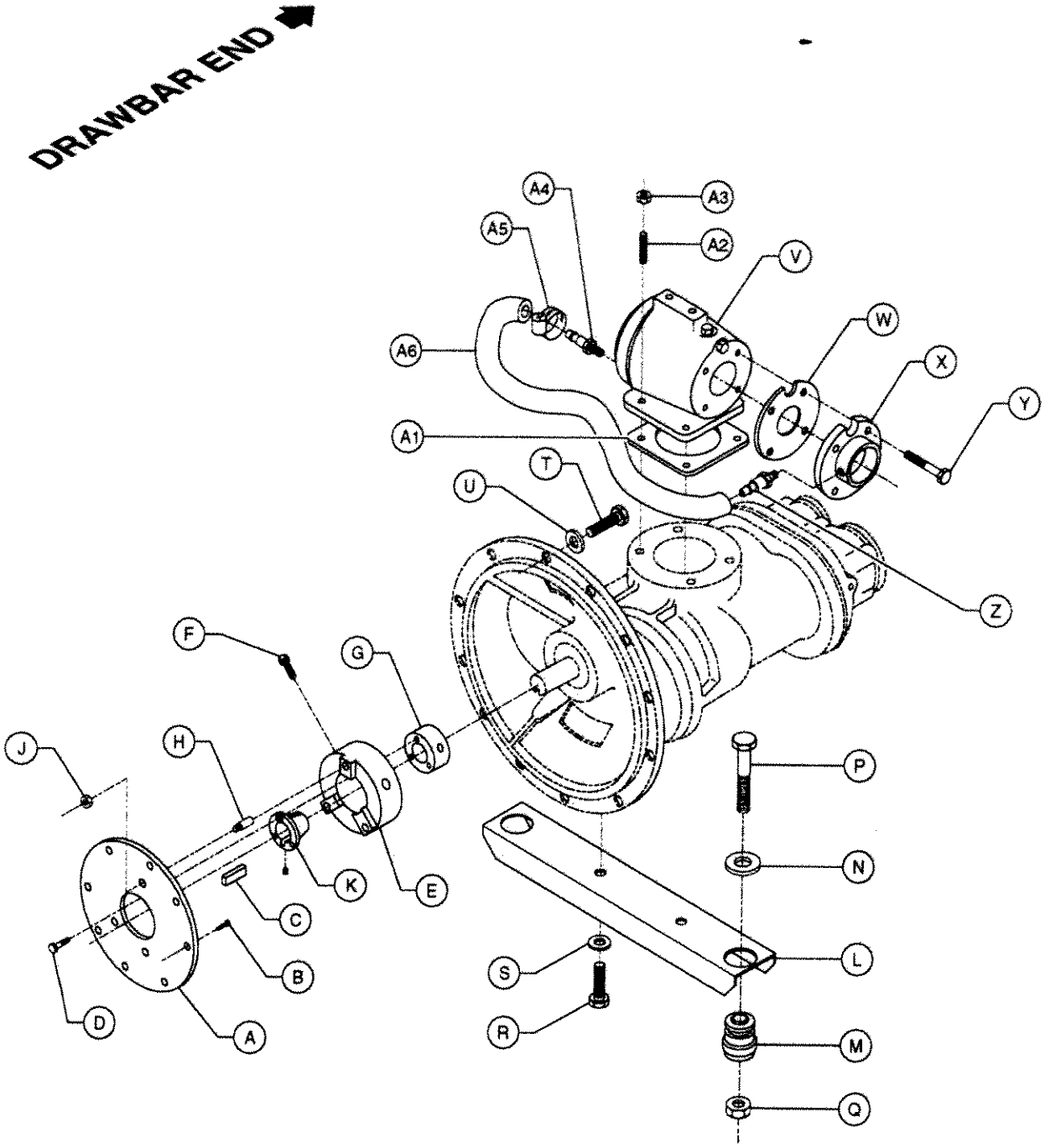
INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: UNLOADER ASSEMBLY			
DATE/DWN BY: 9/30/92	REV: C	DATE/CHKD BY: 11 10/95	DATE/APVD BY: JF
MODEL NO.: P-375WCU	ILLUSTRATION NO.: 36517514	SHEET NO.: 1 of 2	E/C: 26254

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
E		35588193	1	PISTON UNLOADER
F	★	35317197	1	DIAPHRAGM
G	★	35321603	1	SPRING
H	★	35317239	1	PISTON WASHER
J	★	35321595	1	CAP SCREW
K		35836949	1	PISTON COVER
L		35271162	4	SCREW
M		35374842	6	SCREW
N		35833227	1	PISTON HOUSING
P	★	35588300	1	PISTON GASKET
Q		35591122	1	VALVE PLATE
R		36718427	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
X		35279959	1	O-RING

★ **ITEMS INCLUDED IN REPAIR KIT 35088798**

UNLOADER VALVE ASSEMBLY 35060631

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: UNLOADER ASSEMBLY			
DATE/DWN BY: 9/30/92 B	REV: C	DATE/CHKD BY:	DATE/APVD BY:
MODEL NO.: P-375WCU	ILLUSTRATION NO.: 36517514	SHEET NO.: 2 of 2	E/C: 26254

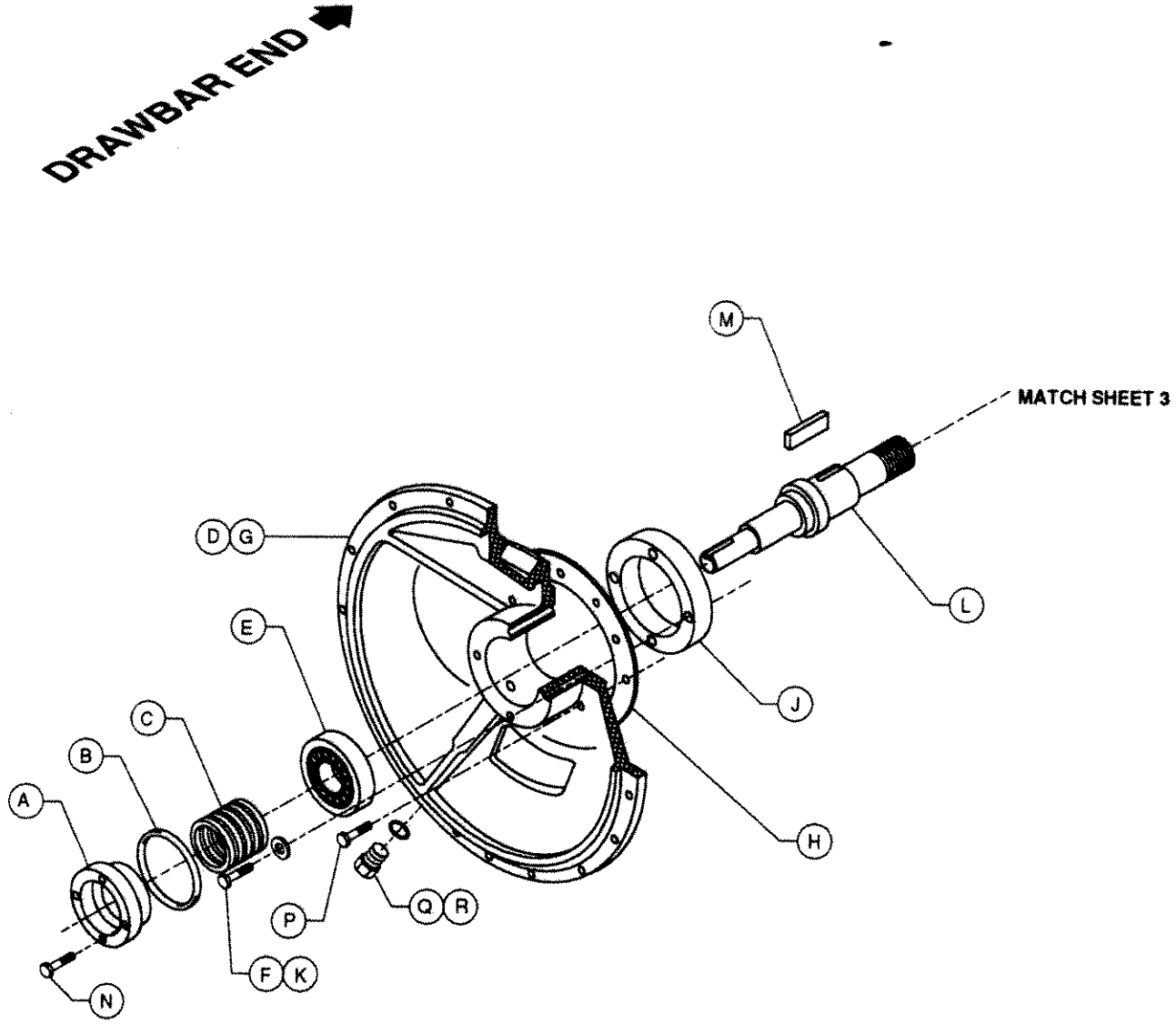


INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: AIREND COMPLETE			
DATE/DWN BY: 12/5/91 bl	REV: B	DATE/CHKD BY: [illegible]	DATE/APVD BY: JH
MODEL NO.: P-250WJD	ILLUSTRATION NO.: 36515872	SHEET NO.: 1 of 2	E/C: 27231

ITEM		C.P.N.	QTY	DESCRIPTION
A		36788917	1	DRIVE PLATE
B		119A2A198Z1	8	SCREW
C		35321421	1	KEY
D		35A2D5Z1	3	SCREW
E	★	36794840	1	DRIVE COUPLING
F	★	36794832	3	SCREW
G	★	36798486	1	HUB
H	★	36794873	3	DRIVE PIN
J	★	36794881	3	NUT
K		35589613	1	BUSHING
L		36719268	1	A/E SUPPORT BRACKET
M		35272491	2	MOUNT
N		35273937	2	WASHER
P		35A2D384Z1	2	SCREW
Q		16A4C8Z1	2	NUT
R		35375591	2	SCREW
S		92359371	2	LOCK WASHER
T		35A2D113Z1	12	SCREW
U		12A5D4Z1	12	WASHER
V		35060631	1	UNLOADER ASSEMBLY
W		35588318	1	GASKET
X		35588532	1	INLET FLANGE
Y		35M2AB359M3	4	SCREW
Z		35316587	1	FITTING
A1		35589589	1	GASKET
A2		35323450	4	STUD
A3		16M4JC26M3	4	NUT
A4		35323542	1	FITTING
A5		35377621	2	CLAMP
A6		35282292	14"	TUBING

★ ITEMS INCLUDED IN DRIVE COUPLING ASSEMBLY 36794840

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: AIREND COMPLETE			
DATE/DWN BY: 12/5/91 bl	REV: C	DATE/CHKD BY: 10/95	DATE/APVD BY:
MODEL NO.: P-250WJD	ILLUSTRATION NO.: 36515872	SHEET NO.: 2 of 2	E/C: 27231



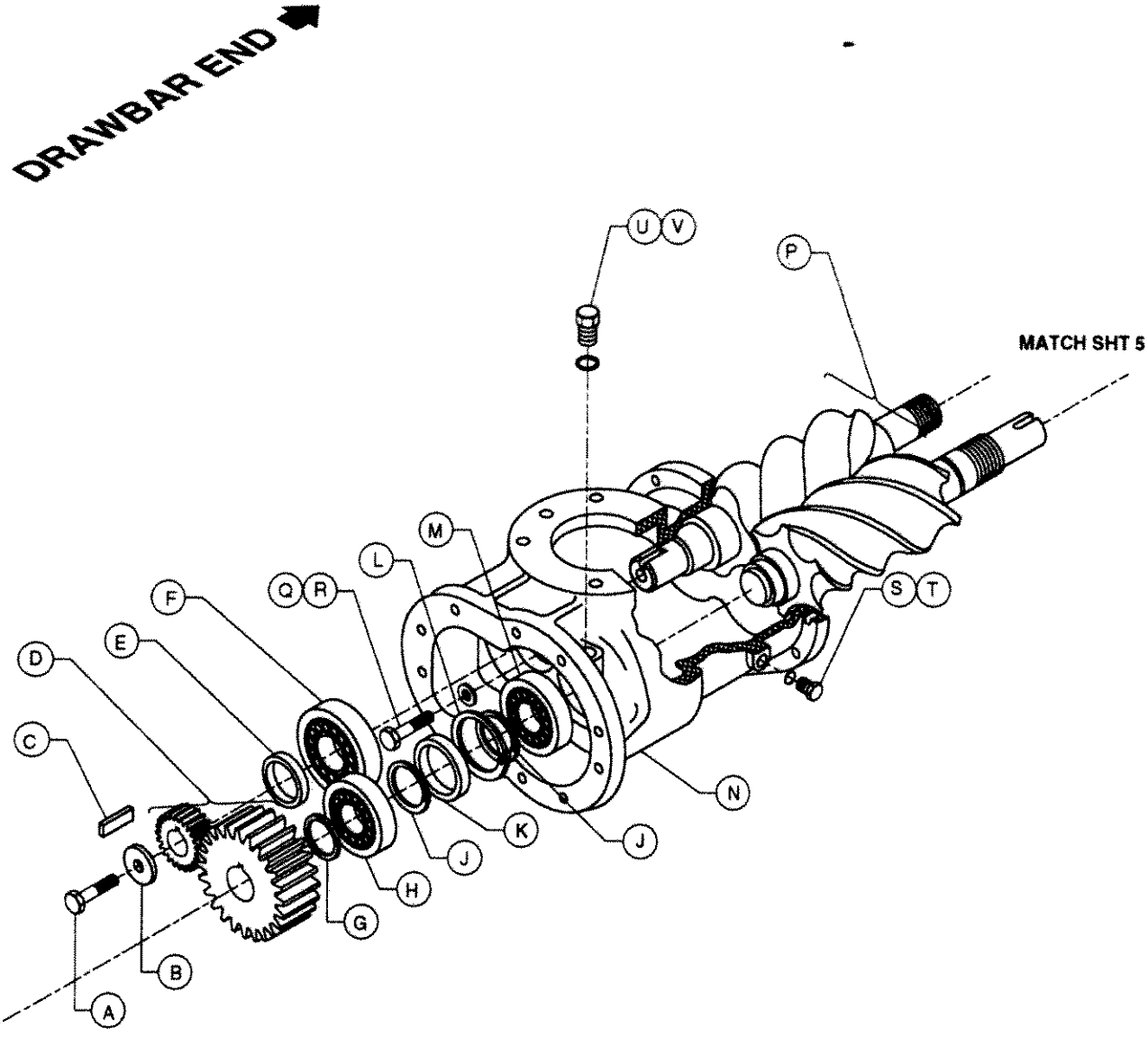
127.5 mm AIREND ASSEMBLY 36006005

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: AIREND ASSEMBLY			
DATE/DWN BY: 10/24/91 R	REV: D	DATE/CHKD BY: 11/93	DATE/APVD BY: JF
MODEL NO.: P-250WJD	ILLUSTRATION NO.: 36515880	SHEET NO.: 1 of 6	E/C: 27445

ITEM	C.P.N.	QTY	DESCRIPTION
A	35328475	1	COVER, SHAFT SEAL
B	20A11C2M234	1	O-RING
C	35593490	1	OIL SEAL
D	36798346	2	GUARD
E	35327543	1	BEARING, BALL
F	35317148	4	SCREW
G	36736148	1	CASE, GEAR
H	35849066	1	GASKET, GEAR CASE
J	35599596	1	PLATE, RETAINING
K	X1026T45	4	WASHER
L	35853001	1	SHAFT, DRIVE
M	35317361	1	KEY, DRIVE GEAR
N	34M2AB412	4	SCREW
P	35272533	10	SCREW
Q	35289057	1	PLUG
R	35279959	1	O-RING

127.5 mm AIREND ASSEMBLY 36006005

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: AIREND ASSEMBLY			
DATE/DWN BY: 10/24/91 B	REV: C	DATE/CHKD BY	DATE/APVD BY
MODEL NO.: P-250WJD	ILLUSTRATION NO.: 36515880	SHEET NO.: 2 of 6	E/C: 27445



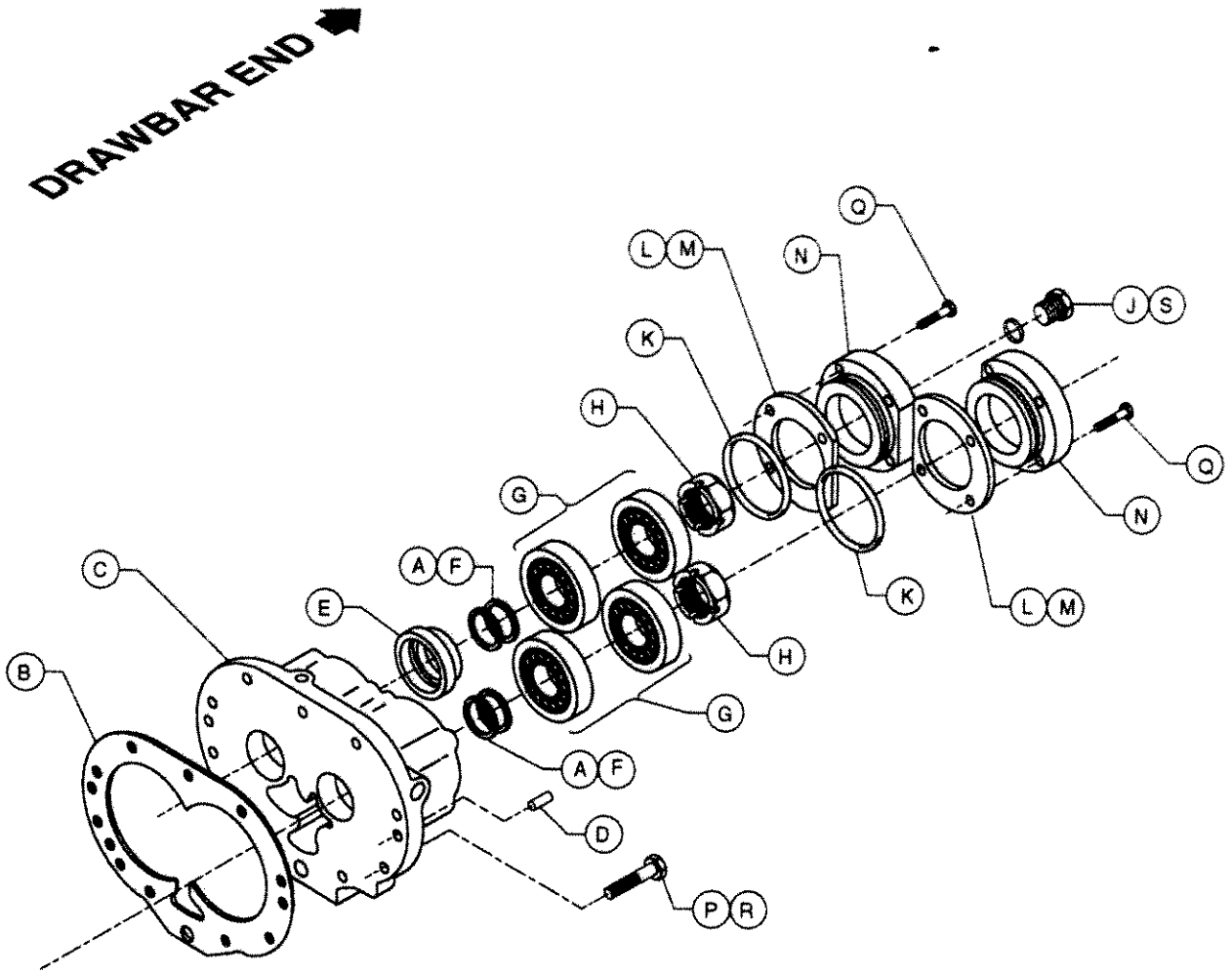
127.5 mm AIREND ASSEMBLY 36006005

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: AIREND ASSEMBLY			
DATE/DWN BY: 10/24/91	REV: D	DATE/CHKD BY:	DATE/APVD BY:
MODEL NO.: P-250WJD	ILLUSTRATION NO.: 36515880	SHEET NO.: 3 of 6	E/C: 27445

ITEM	C.P.N.	QTY	DESCRIPTION
A	34M2AB411	1	SCREW
B	35317155	1	PLATE, CLAMP
C	35317379	1	KEY, DRIVEN GEAR
D	35317387	1	SET, GEAR
E	35316801	1	SPACER
F	35317395	1	BEARING, ROLLER
G	35287614	1	SPACER
H	35289180	1	BEARING, ROLLER
J	164A13S156	2	RING, RETAINING
K	35316819	1	RING, SPACER
L	161A13S315	1	RING, RETAINING
M	35313527	1	BEARING, ROLLER
N	36785111	1	HOUSING, ROTOR
P	36005999	1	SET, ROTOR
Q	35317106	2	SCREW
R	35317114	2	WASHER
S	35289057	1	PLUG
T	35279959	1	O-RING
U	39101449	2	PLUG
V	35278589	1	O-RING

127.5 mm AIREND ASSEMBLY 36006005

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DESCRIPTION: AIREND ASSEMBLY				
DATE/DWN BY: 10/24/91 B	REV: C	DATE/CHKD BY: [illegible]	DATE/APVD BY: [illegible]	
MODEL NO.: P-250WJD	ILLUSTRATION NO.: 36515880	SHEET NO.: 4 of 6	E/C: 27445	



MATCH SHEET 3

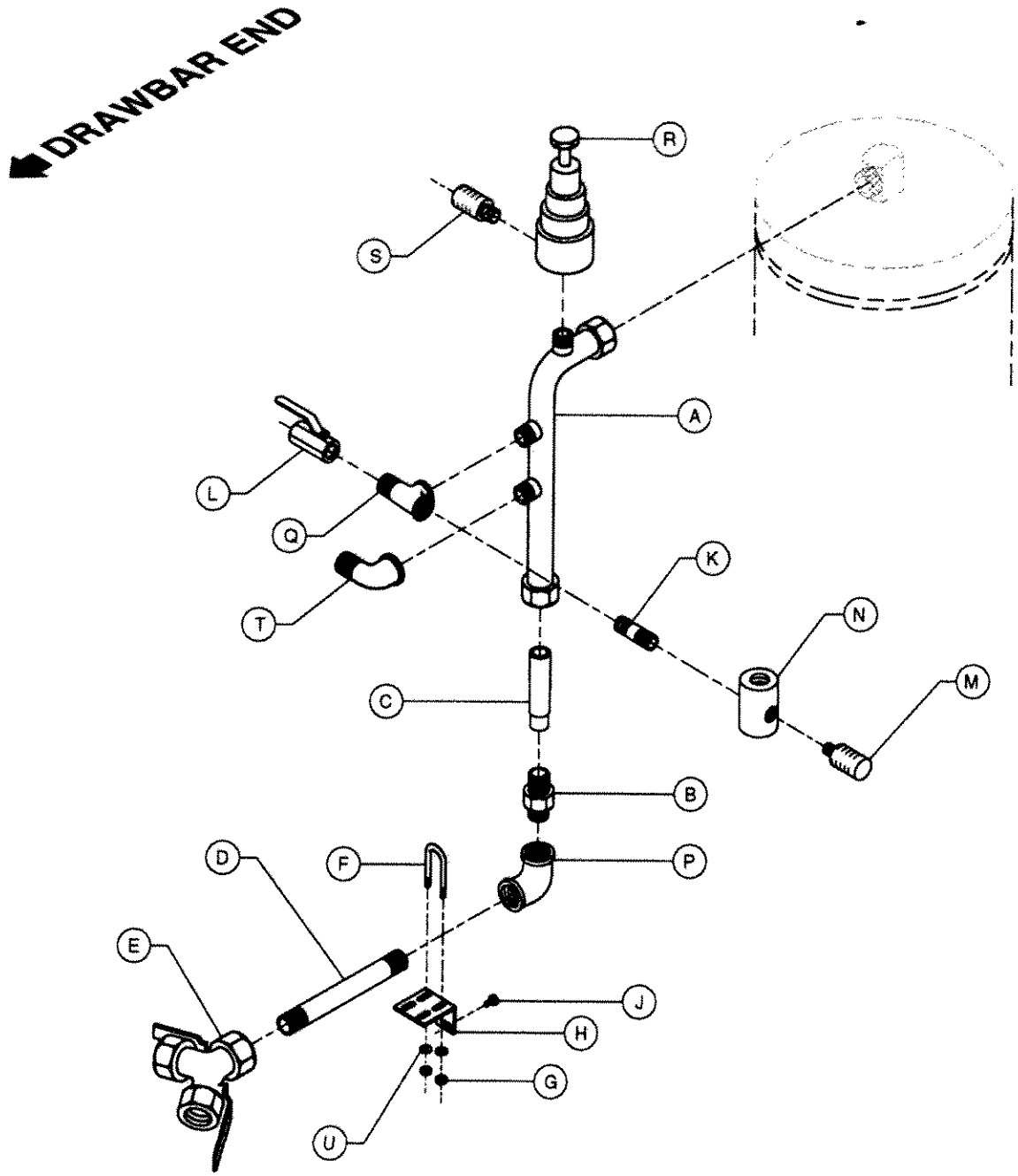
127.5 mm AIREND ASSEMBLY 36006005

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DESCRIPTION: AIREND ASSEMBLY				
DATE/DWN BY: 10/24/91 M	REV: D	DATE/CHKD BY: [illegible]	DATE/APVD BY: JC	
MODEL NO.: P-250WJD	ILLUSTRATION NO.: 36515880	SHEET NO.: 5 of 6	E/C: 27445	

ITEM	C.P.N.	QTY	DESCRIPTION
A	35323708	6	SHIM (.127)
B	35849058	1	GASKET, REAR BEARING HSG
C	36842458	1	HOUSING, REAR BEARING
D	35323617	2	PIN, DOWEL
E	35588185	1	PISTON, BALANCE
F	35317353	6	SHIM (.05)
G	39124391	4	BEARING, TAPER ROLLER
H	35323112	2	LOCKNUT, BEARING
J	35278555	2	PLUG
K	20A11C2M236	2	O–RING
L	35317643	6	SHIM (.05)
M	35317635	12	SHIM (.127)
N	35588672	2	COVER, BEARING
P	35272533	9	SCREW
Q	34M2AB412	8	SCREW
R	92304450	1	SCREW
S	35278589	2	O–RING

127.5 mm AIREND ASSEMBLY 36006005

INGERSOLL–RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: AIREND ASSEMBLY			
DATE/DWN BY: 10/24/91 H	REV: C	DATE/CHKD BY:	DATE/APVD BY:
MODEL NO.: P–250WJD	ILLUSTRATION NO.: 36515880	SHEET NO.: 6 of 6	E/C: 27445



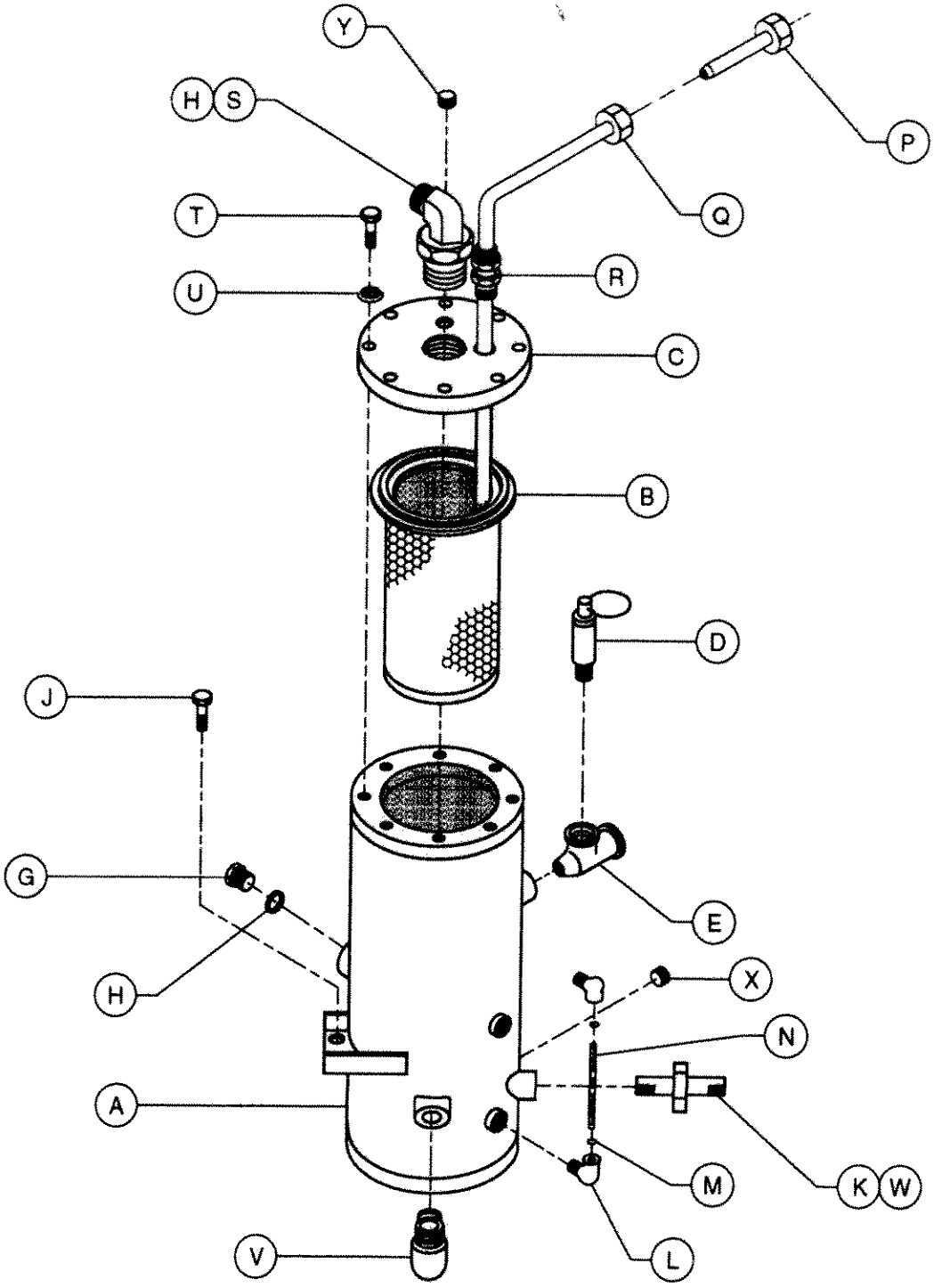
INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: AIR SERVICE COMPLETE			
DATE/DWN BY: 1/28/94	REV: A	DATE/CHKD BY: [illegible]	DATE/APVD BY: [illegible]
MODEL NO.: P-250AWJD	ILLUSTRATION NO.: 36511756	SHEET NO.: 1 of 2	E/C: 27688

ITEM		C.P.N.	QTY	DESCRIPTION
A		36865442	1	TUBE
B		108A23S20	1	HOSE FITTING
C		36865434	1	SONIC NOZZLE
D		19A7J148Z1	1	NIPPLE
E		36779056	1	WYE VALVE
F		36785277	2	CLAMP
G		67A4C2Z1	4	NUT
H		36785269	1	SUPPORT BRKT
J		92368687	2	SCREW
K		19A7J2Z1	1	NIPPLE
L		35324839	1	BALL VALVE
M		36766764	1	MUFFLER ORIFICE
N	★	35322379	1	BLOWDOWN VALVE
P		100A7M6Z1	1	ELBOW
Q		35114545	1	TEE
R		36854149	1	REGULATOR VALVE
S		36766731	1	MUFFLER ORIFICE
T		35377035	1	ELBOW
U		11A5D3Z1	4	WASHER

★	35379064		BLOWDOWN VALVE REPAIR KIT

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

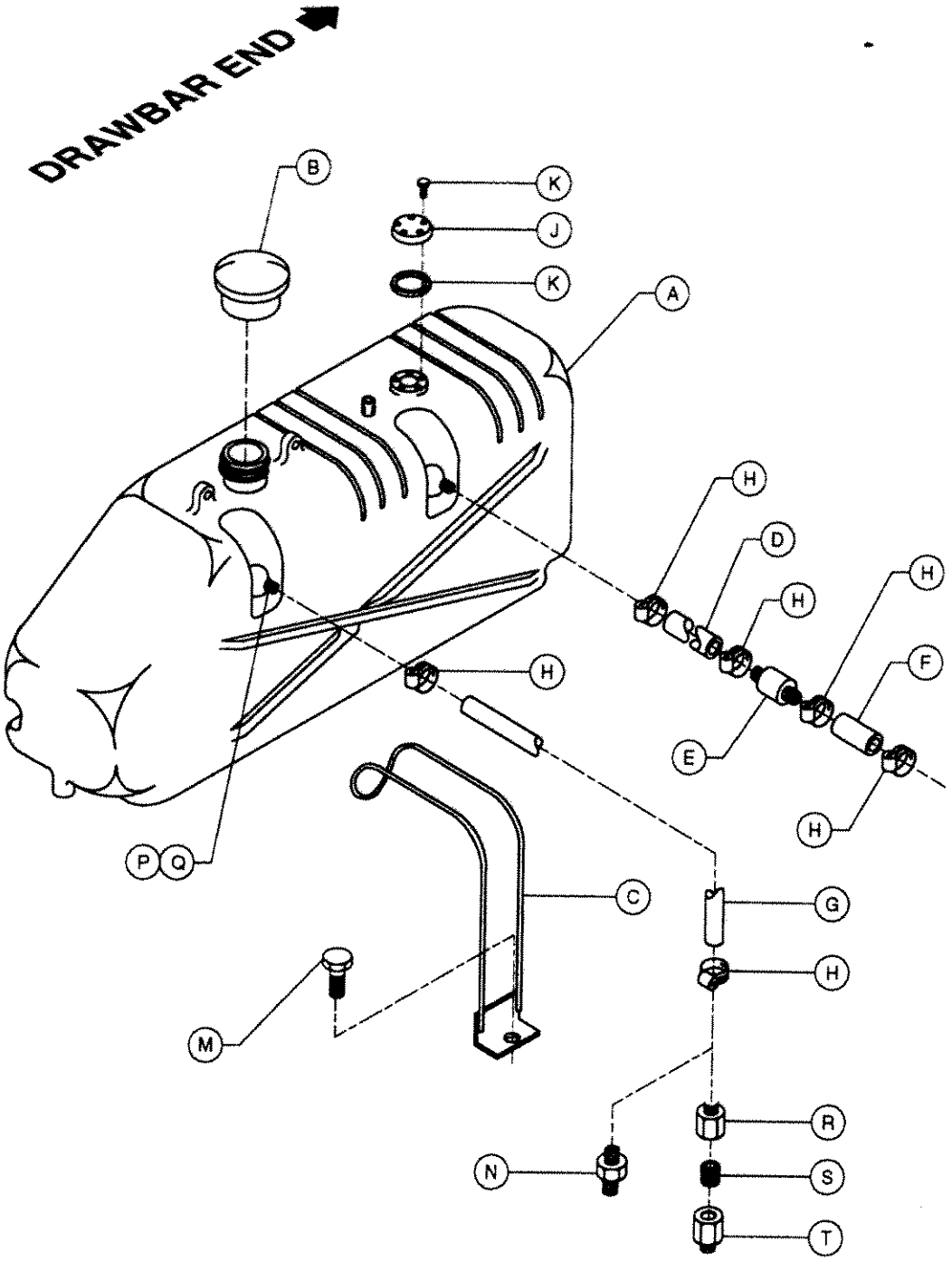
DESCRIPTION			
AIR SERVICE COMPLETE			
DATE/DWN BY: 1/28/94 B	REV: A	DATE/CHKD BY: [illegible]	DATE/APVD BY: [illegible]
MODEL NO.: P-250AWJD	ILLUSTRATION NO.: 36511756	SHEET NO.: 2 of 2	E/C: 27688



INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION SEPARATOR TANK COMPLETE			
DATE/DWN BY: 2/26/91 bl	REV: G	DATE/CHKD BY 11 10/95	DATE/APVD BY JF
MODEL NO. P-250WJD	ILLUSTRATION NO. 36515930	SHEET NO. 1 of 2	E/C 27771

ITEM	C.P.N.	QTY	DESCRIPTION
A	36846558	1	SEPARATOR TANK
B	36845311	1	SEPARATOR ELEMENT
C	36777886	1	COVER
D	35325224	1	SAFETY VALVE
E	72A7M4Z1	1	STREET TEE
F			
G	35579630	1	FILLER PLUG
H	35279942	2	O-RING
J	35279025	4	SCREW
K	35295880	1	CONNECTOR
L	36860468	1	FITTING
M	35324649	2	GASKET
N	92121532	1	GLASS TUBE
P	36840437	1	~~FILTER~~/ORFICE 1062 CHECK VALVE
Q	36781227	1	SCAVENGE TUBE
R	35329309	1	FITTING
S	35279777	1	ELBOW
T	36763662	8	SCREW
U	12A5D6Z1	8	WASHER
V	35296425	1	ELBOW
W	35294768	1	O-RING
X	34A7S5Z1	1	PLUG
Y	34A7S3Z1	1	PLUG

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: SEPARATOR TANK COMPLETE			
DATE/DWN BY: 2/26/91 H	REV: G	DATE/CHKD BY: 10/95	DATE/APVD BY: DF
MODEL NO.: P-250WJD	ILLUSTRATION NO.: 36515930	SHEET NO.: 2 of 2	E/C: 27771

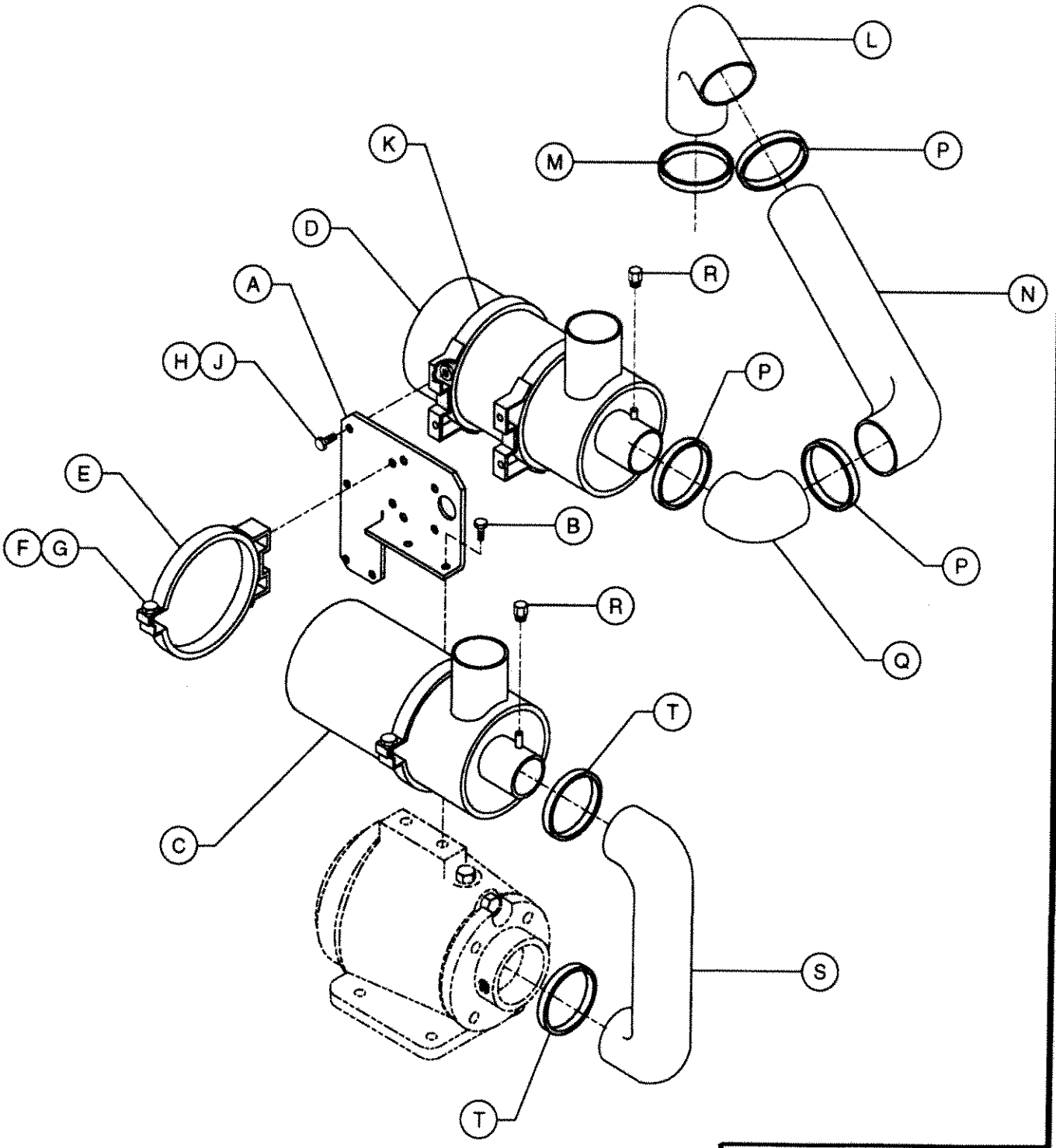


INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: FUEL TANK COMPLETE			
DATE/DWN BY: 8/18/93	REV: K	DATE/CHKD BY: 10/95	DATE/APYD BY: JF
MODEL NO.: P-130B - P-250WJD	ILLUSTRATION NO.: 36514016	SHEET NO.: 1 of 2	E/C: 27226

ITEM		C.P.N.	QTY	DESCRIPTION
A		36859031	1	FUEL TANK
B	★	36859049	1	FUEL CAP
C		36785301	2	FUEL TANK STRAP
D		35363498	2.5"	FUEL PICK–UP LINE
E		36845493	1	FUEL FILTER (JOHN DEERE)
		36845501	1	FUEL FILTER (DEUTZ)
F		35363498	11.5"	FUEL INLET LINE (P130–P185 JD)
		35363498	13"	FUEL INLET LINE (P250 JD)
		35363498	10"	FUEL INLET LINE (DEUTZ)
G		35282078	27"	FUEL RETURN LINE (JOHN DEERE)
		35363498	32"	FUEL RETURN LINE (DEUTZ)
H		35296342	6	CLAMP
J	★	36792828	1	COVER
K	★	35361849	1	GASKET
L	★	88A2C95G	5	SCREW
M		92368687	2	SCREW
N		35322460	1	BARBED UNION (JOHN DEERE)
P	★	35384593	1	ELBOW
Q	★	35384577	2	BUSHING
R		35316587	1	ADAPTER (DEUTZ)
S		11A7S1Z1	1	COUPLING (DEUTZ)
T		36772747	1	FITTING (DEUTZ)

★ ITEMS INCLUDED WITH FUEL TANK

INGERSOLL–RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: FUEL TANK COMPLETE			
DATE/DWN BY: 8/18/93 tl	REV: K	DATE/CHKD BY: 10/95	DATE/APVD BY:
MODEL NO.: P–130B – P–250WJD	ILLUSTRATION NO.: 36514016	SHEET NO.: 2 of 2	E/C: 27226

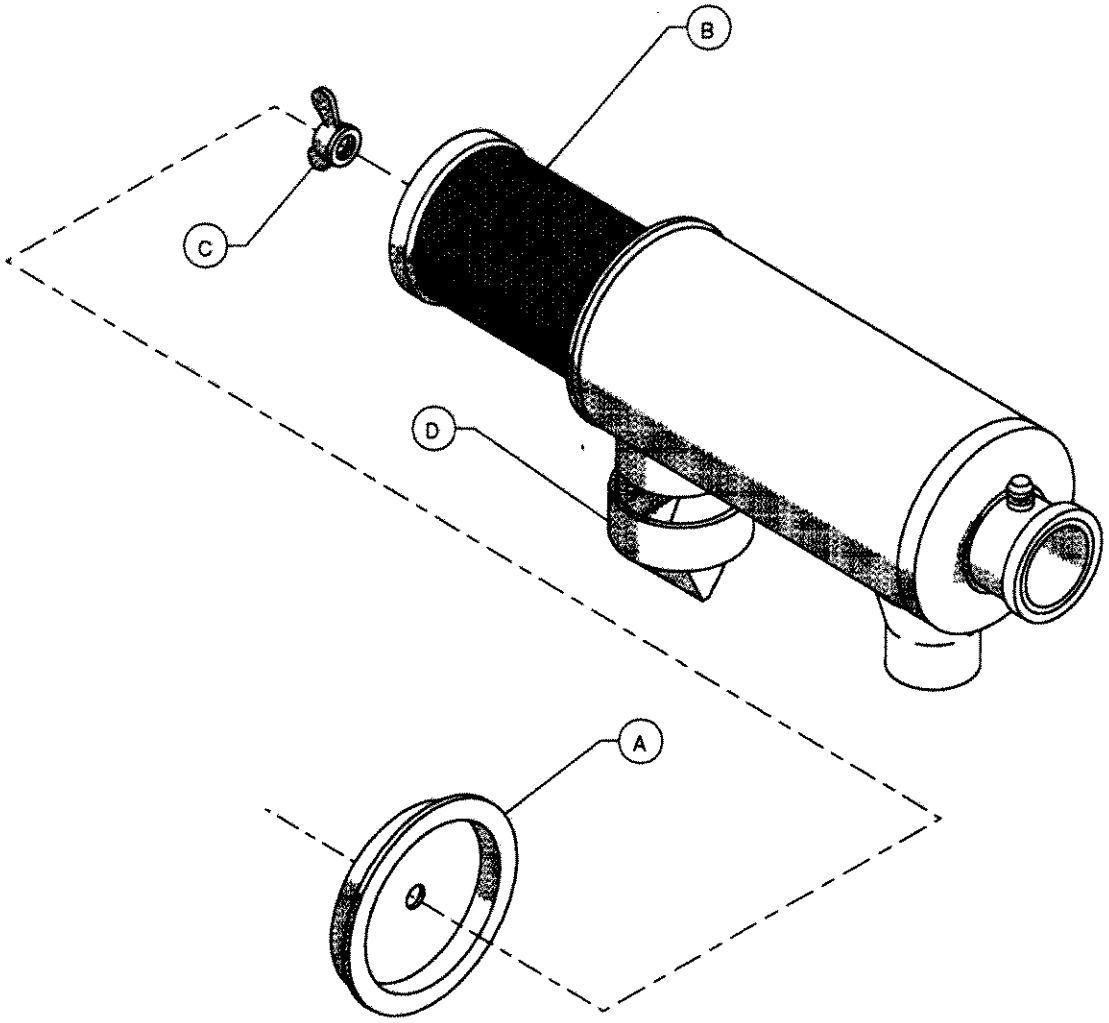


INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: AIR INTAKE COMPLETE			
DATE/DWN BY: 2/28/91	REV: D	DATE/CHKD BY: 10/95	DATE/APVD BY:
MODEL NO.: P250WJD	ILLUSTRATION NO.: 36515971	SHEET NO.: 1 of 2	E/C: 27576

ITEM	C.P.N.	QTY	DESCRIPTION
A	36791549	1	AIR CLEANER BRACKET
B	34M2AB461M3	2	SCREW
C	36863835	1	A/E AIR CLEANER ASSY
D	36862829	1	ENG AIR CLEANER ASSY
E	35587468	2	BAND CLAMP
F	35271170	2	SCREW
G	16M4JC22M3	2	NUT
H	35144336	8	SCREW
J	67A4C2Z1	8	NUT
K	35585009	2	BAND CLAMP
L	35856111	1	ELBOW
M	35314996	1	CLAMP
N	36790236	1	TUBE
P	35374073	3	CLAMP
Q	35291574	1	ELBOW
R	36790277	2	HEX CAP
S	35588524	1	ELBOW
T	W32875	2	CLAMP

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DESCRIPTION			
AIR INTAKE COMPLETE			
DATE/DWN BY: 2/28/91 B	REV: E	DATE/CHKD BY: 10/95	DATE/APVD BY:
MODEL NO.: P250WJD	ILLUSTRATION NO.: 36515971	SHEET NO.: 2 of 2	E/C: 27576



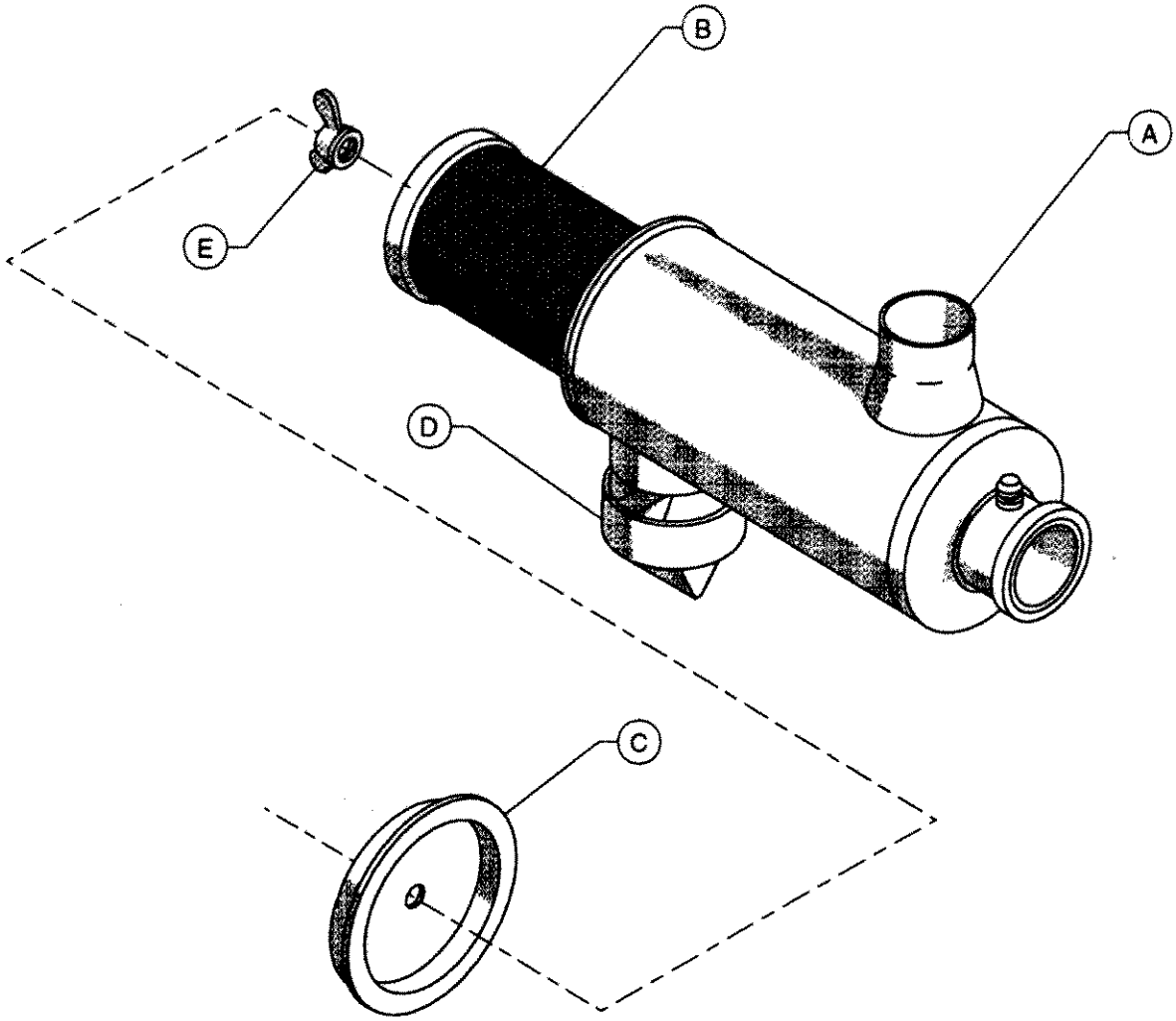
A/E AIR CLEANER ASSEMBLY 36863835

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: AIR CLEANER ASSEMBLY			
DATE/DWN BY: 10/27/93 bl	REV: A	DATE/CHKD BY: 10/19/95	DATE/APVD BY:
MODEL NO.: P-250WJD	ILLUSTRATION NO.: 36522001	SHEET NO.: 1 of 2	E/C: 27576

ITEM	C.P.N.	QTY	DESCRIPTION
A	35326057	1	COVER
B	35318252	1	AIR CLEANER ELEMENT
C	35291475	1	NUT
D	35318245	1	VACUATOR VALVE

A/E AIR CLEANER ASSEMBLY 36863835

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: AIR CLEANER ASSEMBLY			
DATE/DWN BY: 10/27/93 d	REV: A	DATE/CHKD BY: dd 10/29/93	DATE/APVD BY: DF
MODEL NO.: P-250WJD	ILLUSTRATION NO.: 36522001	SHEET NO.: 2 of 2	E/C: 27576



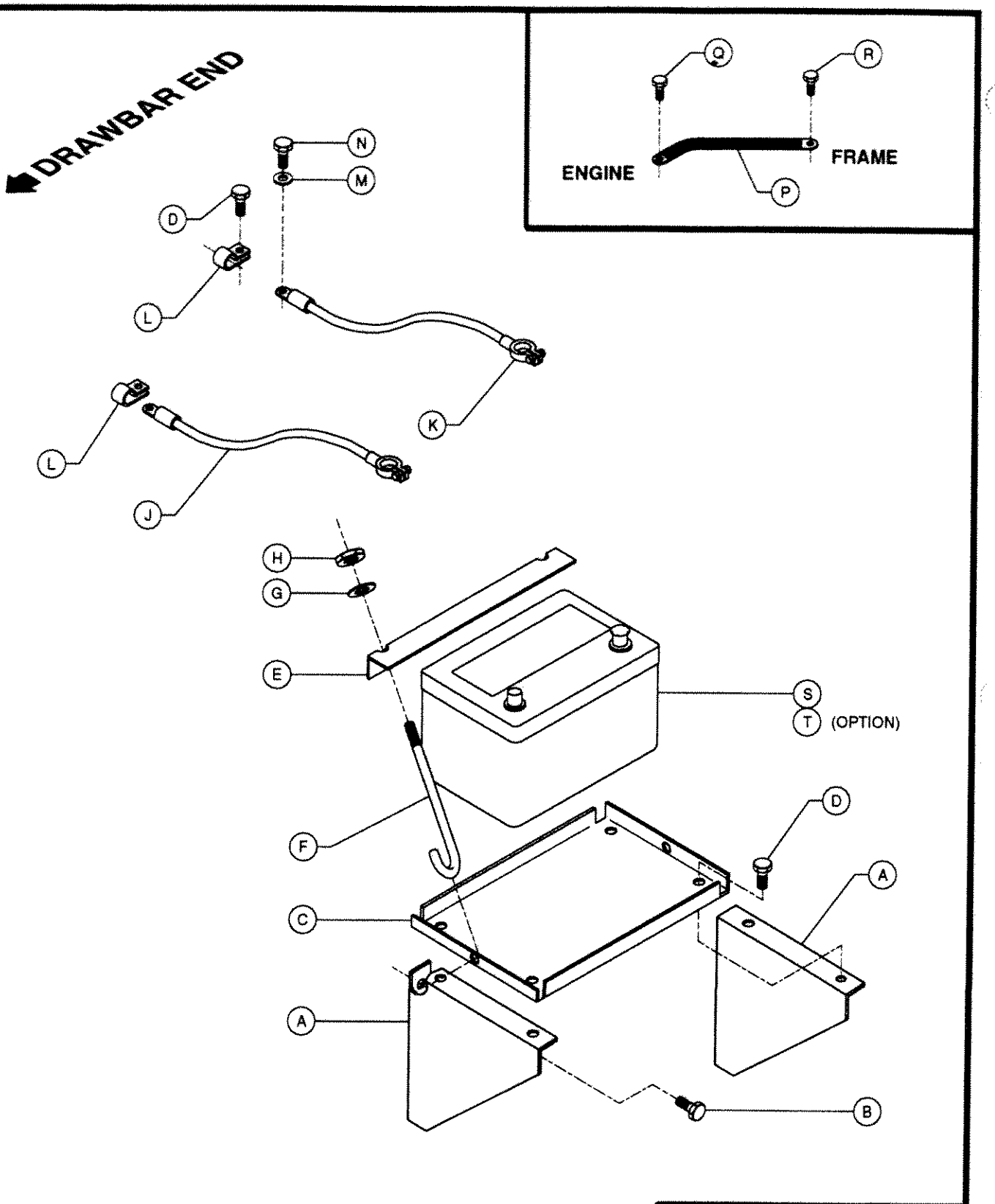
ENGINE AIR CLEANER ASSEMBLY 36862829

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: AIR CLEANER ASSEMBLY			
DATE/DWN BY: 10/27/93 d	REV: B	DATE/CHKD BY: 10193	DATE/APVD BY:
MODEL NO.: P-250WJD	ILLUSTRATION NO.: 36522019	SHEET NO.: 1 of 2	E/C: 27576

ITEM	C.P.N.	QTY	DESCRIPTION
A	35388883	1	AIR CLEANER BODY
B	36876423	1	AIR CLEANER ELEMENT
C	35326032	1	COVER
D	35388891	1	VACUATOR VALVE
E	35291475	1	NUT
F			

ENGINE AIR CLEANER ASSEMBLY 36862829

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: AIR CLEANER ASSEMBLY			
DATE/DWN BY: 10/27/93 d	REV: B	DATE/CHKD BY: 11/9/5	DATE/APVD BY:
MODEL NO.: P-250WJD	ILLUSTRATION NO.: 36522019	SHEET NO.: 2 of 2	E/C: 28257

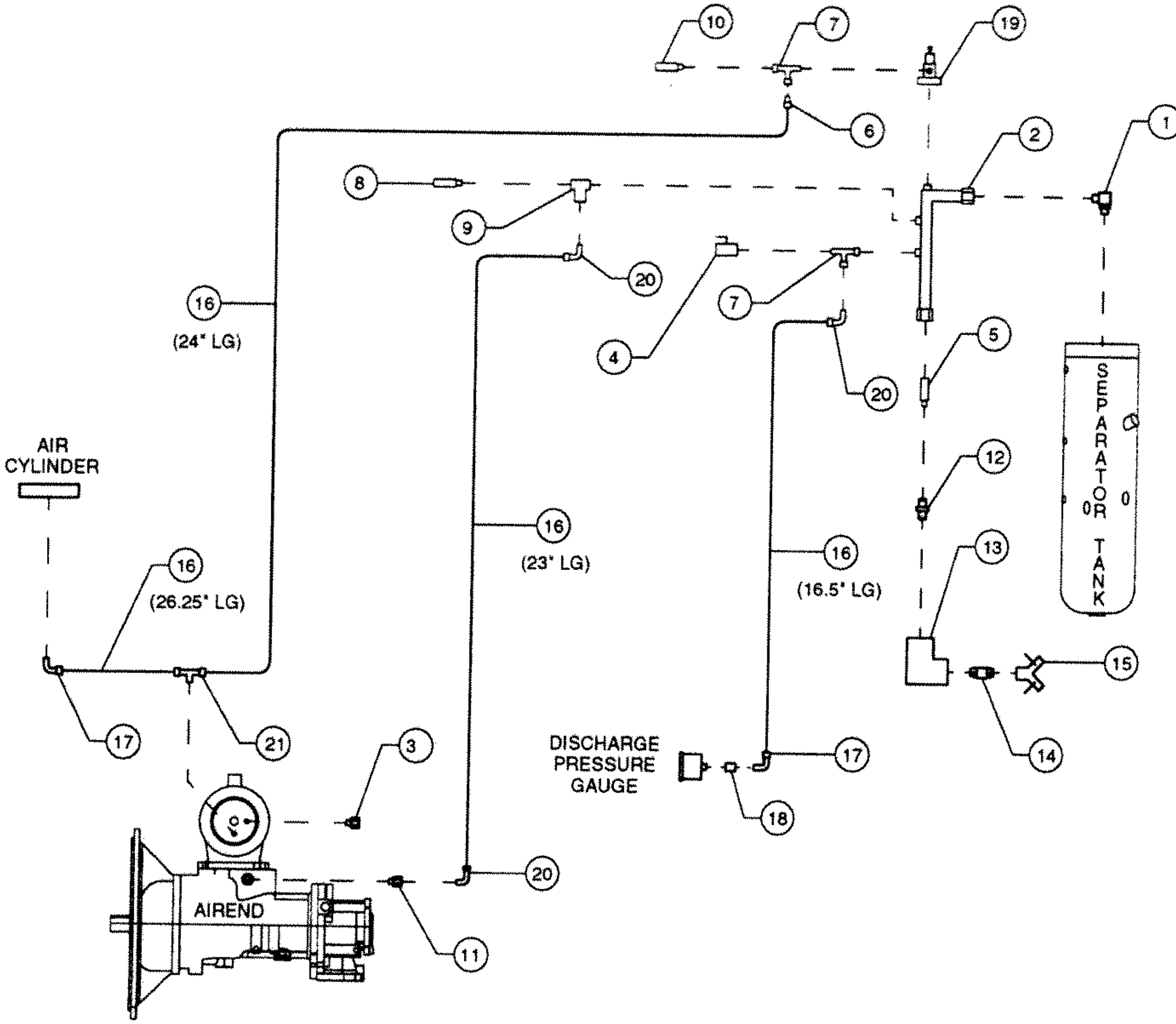


INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION BATTERY & MOUNTING			
DATE/DWN BY: 2/28/91 H	REV: H	DATE/CHKD BY: 10/9/95	DATE/APVD BY: JF
MODEL NO. P-250WJD	ILLUSTRATION NO. 36516003	SHEET NO. 1 of 2	E/C 27468

ITEM	C.P.N.	QTY	DESCRIPTION
A	36790228	2	SUPORT BRACKET
B	35279025	4	SCREW
C	36853232	1	BATTERY TRAY
D	92368687	5	SCREW
E	36853257	1	ANGLE
F	36853240	2	J-BOLT
G	36853265	2	WASHER
H	35144492	2	NUT
J	36796035	1	POSITIVE BATTERY CABLE
K	35579143	1	NEGATIVE BATTERY CABLE
L	W88678	3	CLAMP
M	12A5D6Z1	1	WASHER
N	35A2D215Z1	1	SCREW
P	35578194	1	GROUND STRAP
Q	35252493	1	SCREW
R	35130293	1	SCREW
S	36844264	1	BATTERY
T	36844058		DRY BATTERY (OPTION)

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DESCRIPTION			
BATTERY & MOUNTING			
DATE/DWN BY:	REV:	DATE/CHKD BY	DATE/APVD BY
2/28/91 B	H	6/6 11/93	JL
MODEL NO.	ILLUSTRATION NO.	SHEET NO.	E/C
P-250WJD	36516003	2 of 2	27468

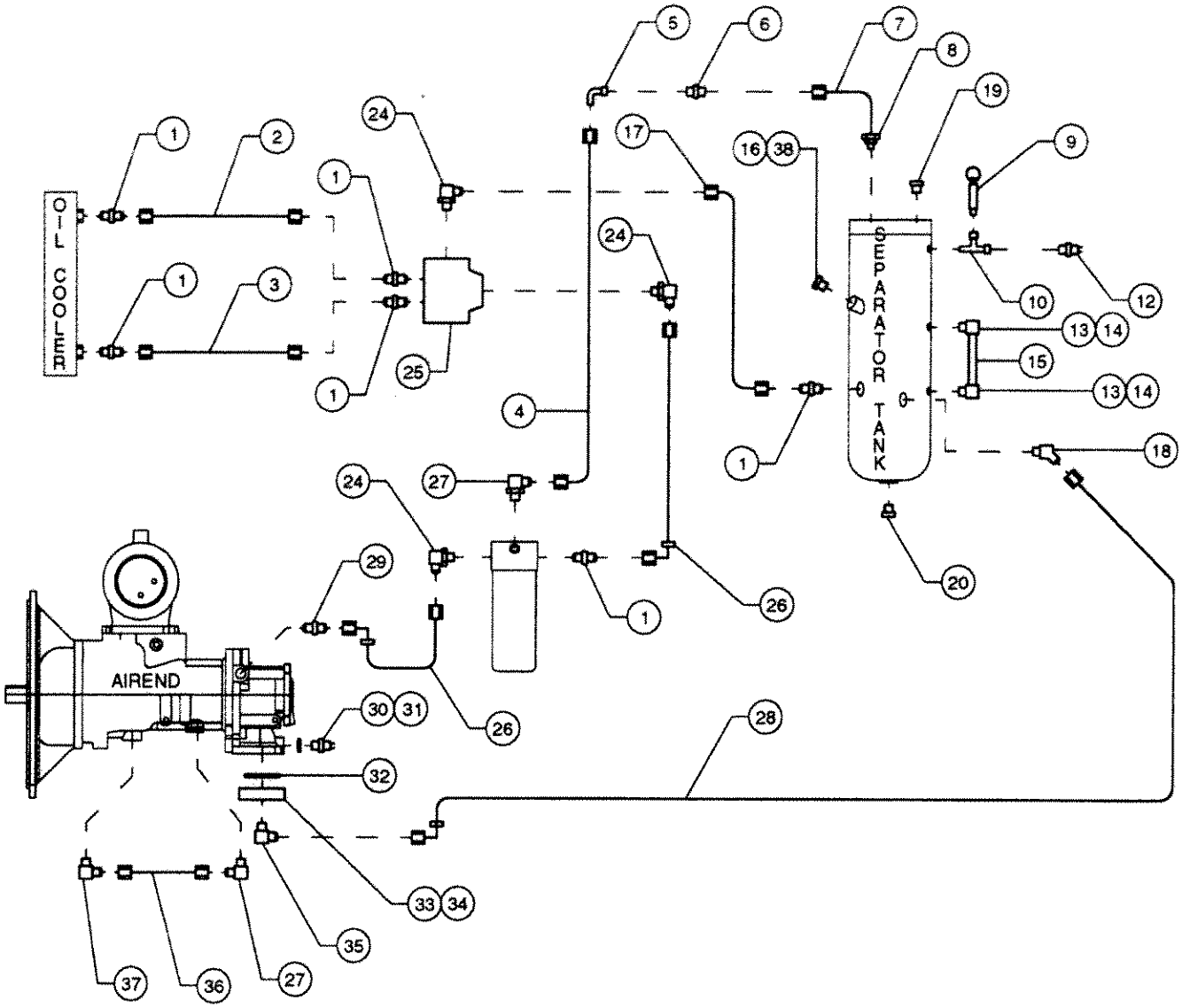


INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: AIR PIPING DIAGRAM			
DATE/DWN BY: 2/18/94	REV: A	DATE/CHKD BY:	DATE/APVD BY:
MODEL NO.: P-250AWJD	ILLUSTRATION NO.: 36511772	SHEET NO.: 1 of 2	E/C: 27745

ITEM		C.P.N.	DESCRIPTION
1		35279777	ELBOW
2		36865442	SERVICE TUBE
3		34A7S3Z1	PLUG
4		35324839	BALL VALVE
5		36865434	SONIC NOZZLE
6		35369347	STRAIGHT CONNECTOR
7		35114545	STREET TEE
8		36766764	ORIFICE .031"
9	★	35322379	BLOWDOWN VALVE
10		36866731	ORIFICE
11		35302314	ADAPTOR
12		108A23S20	STRAIGHT CONNECTOR
13		100A7M6Z1	ELBOW
14		19A7J148Z1	NIPPLE
15		36779056	WYE VALVE
16		35356484	TUBING
17		35370386	ELBOW
18		11A7S1Z1	COUPLING
19	★★	36854149	PRESSURE REGULATOR
20		35369354	ELBOW
21		35373976	TEE

★ 35379064 BLOWDOWN VALVE REPAIR KIT
★★ 35387909 VALVE REPAIR KIT;
35387919 DIAPHRAM REPAIR KIT

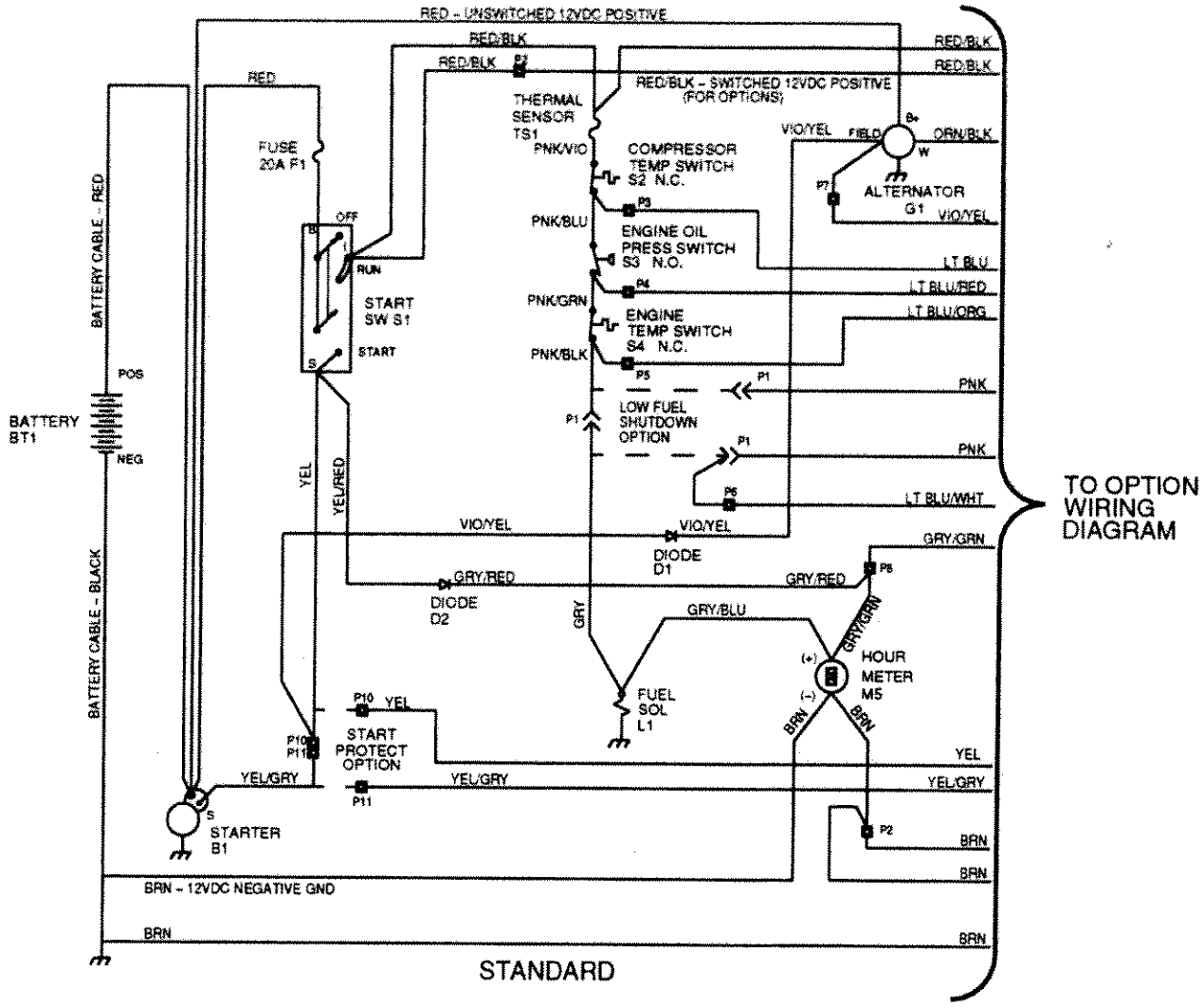
INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: AIR PIPING DIAGRAM			
DATE/DWN BY: 2/18/94 H	REV: A	DATE/CHKD BY: 2/2 10/95	DATE/APVD BY:
MODEL NO.: P-25CAWJD	ILLUSTRATION NO.: 36511772	SHEET NO.: 2 of 2	E/C: 27745



INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DESCRIPTION OIL PIPING				
DATE/DWN BY: 12/10/93 bl	REV: B	DATE/CHKD BY RR 12/95 JF	DATE/APVD BY	
MODEL NO. P-250WJD	ILLUSTRATION NO. 36522100	SHEET NO. 1 of 2	E/C 27771	

ITEM	C.P.N.	DESCRIPTION
1	35295880	STREET CONNECTOR
2	36793628	UPPER TUBE ASSY.
3	36793636	LOWER TUBE ASSY.
4	35315407	HOSE ASSEMBLY
5	35290352	ELBOW
6	36840437	ORFICE/CHECK VALVE
7	36781228	TUBE ASSEMBLY
8	35329309	LENZ FITTING
9	35325224	SAFETY VALVE
10	72A7M4Z1	STREET TEE
11		
12	36865756	SHUTDOWN SWITCH
13	36860468	SIGHT TUBE FITTING
14	35324649	GASKET
15	92121532	SIGHT TUBE
16	35579630	PLUG
17	36846566	TUBE ASSEMBLY
18	35296425	ELBOW
19	34A7S3Z1	PLUG
20	174A10C6	PLUG
24	35294750	ELBOW CONNECTOR
25	36777365	BYPASS VLVE
26	36773216	HOSE ASSEMBLY
27	144A23S15	ELBOW
28	36799831	HOSE ASSEMBLY
29	145A23S16	ADAPTOR
30	39404165	O-RING
31	35596436	SHUTDOWN SWITCH
32	20A11C2M228	O-RING
33	36791375	ADAPTOR PLATE
34	35285584	SCREW
35	144A23S13	ELBOW
36	35589803	TUBE ASSEMBLY
37	35279876	ELBOW
38	35279942	O-RING

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: OIL PIPING			
DATE/DWN BY: 12/10/93 H	REV: B	DATE/CHKD BY: [illegible]	DATE/APVD BY: [illegible]
MODEL NO.: P-250WJD	ILLUSTRATION NO.: 36522100	SHEET NO.: 2 of 2	E/C: 27771

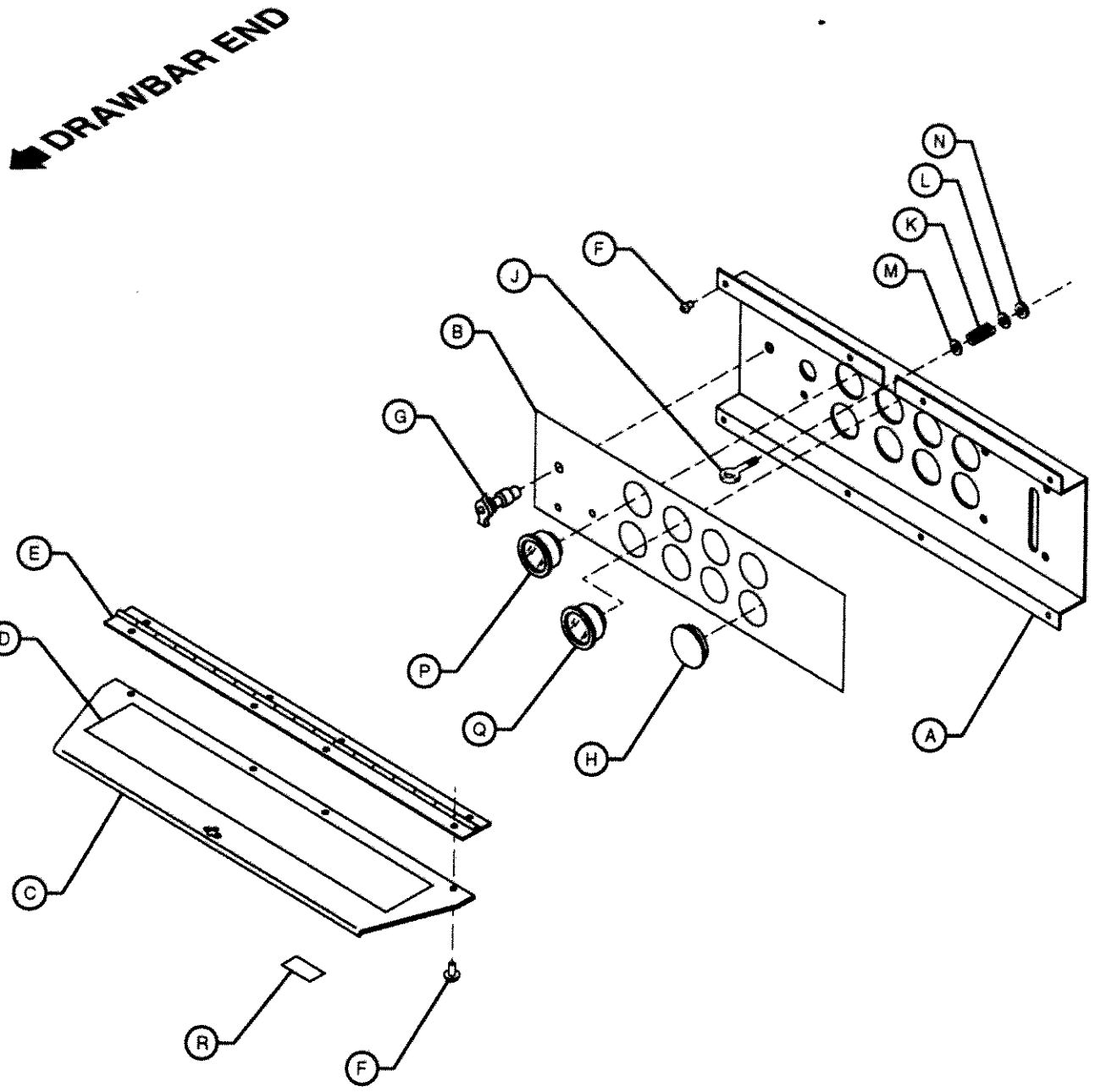


INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DESCRIPTION: DECAL, WIRING DIAGRAM				
DATE/DWN BY: 1/21/94	REV: A	DATE/CHKD BY: 1/19/95	DATE/APVD BY: JF	
MODEL NO.: P-130CWJD, P-250AWJD	ILLUSTRATION NO.: 36522506	SHEET NO.: 1 of 2	E/C: 27713	

ITEM	C.P.N.	DESCRIPTION
B1	★	STARTER
BT1	36844264	BATTERY
D1	35376169	DIODE
D2	35376169	DIODE
F1	36792083	FUSE, 20A
G1	★	ALTERNATOR
L1	★	SOLENOID, FUEL
M5	35605229	HOURMETER
S1	36509396	SWITCH, IGNITION
S2	35596436	SWITCH, COMP TEMP
S3	36789469	SWITCH, OIL PRESS
S4	36865624	SWITCH, ENG TEMP
TS1	36865756	SENSOR, THERMAL
	36865103	HARNESS, ENGINE

★ ITEMS FURNISHED BY ENGINE MANUFACTURER

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DESCRIPTION: DECAL, WIRING DIAGRAM				
DATE/DWN BY: 1/21/94 B	REV: B	DATE/CHKD BY: [illegible]	DATE/APVD BY: [illegible]	
MODEL NO.: P-130CWJD, P-250AWJD	ILLUSTRATION NO.: 36522506	SHEET NO.: 2 of 2	E/C: 27771	

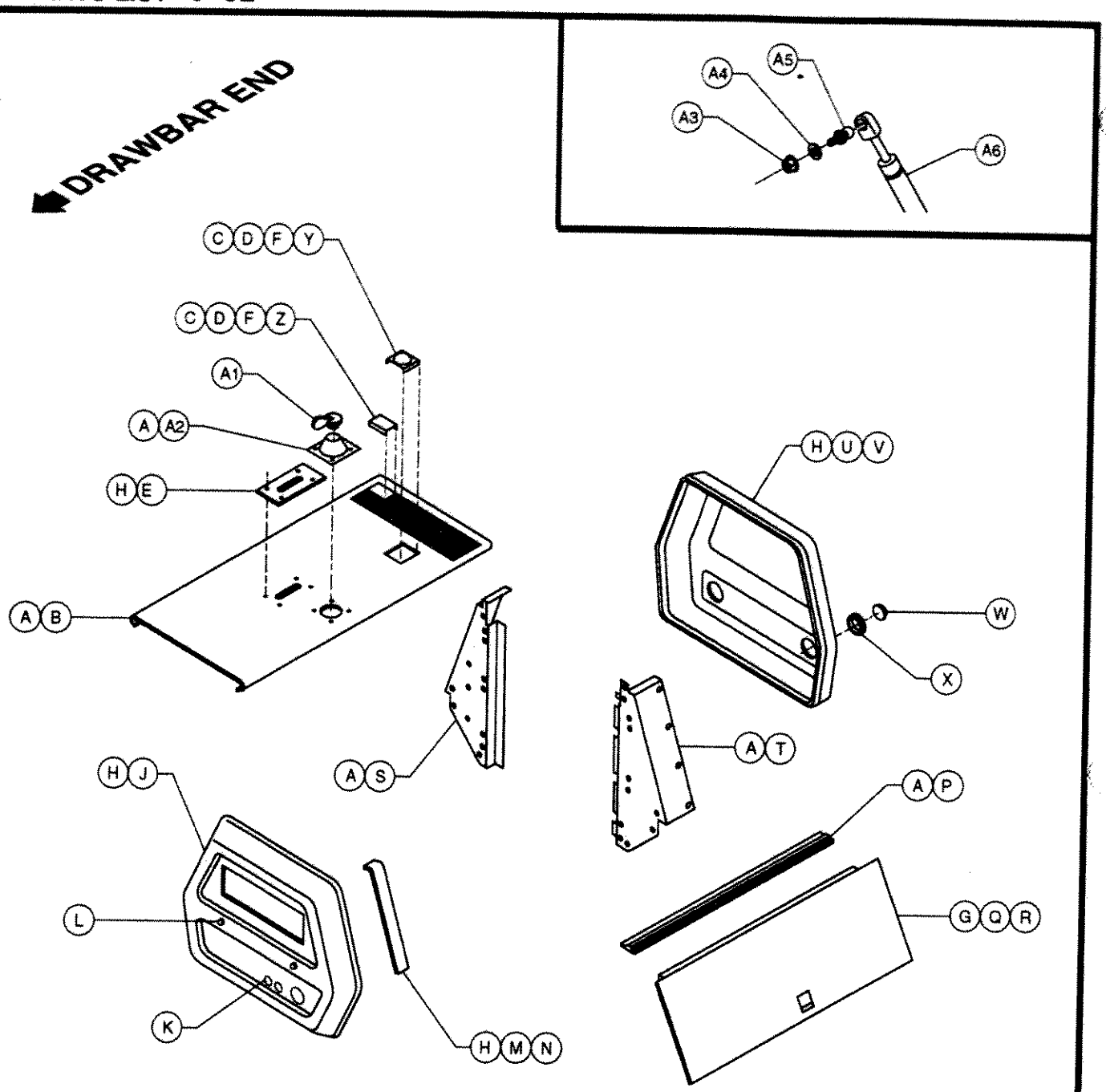


INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DESCRIPTION INSTRUMENT/CONTROL PANEL ASSY				
DATE/DWN BY: 1/7/94	REV: A	DATE/CHKD BY	DATE/APVD BY	
MODEL NO. P-130CWJD P-250AWJD	ILLUSTRATION NO. 36522480	SHEET NO. 1 of 2	E/C 27688	

ITEM	C.P.N.	QTY	DESCRIPTION
A	36850030	1	PANEL
B	36865269	1	DECAL
C	36850089	1	DOOR
D	36865095	1	OPER INST DECAL
E	36850022	1	HINGE
F	36843282	16	RIVET
G	36509396	1	IGNITION SWITCH
H	36767440	6	HOLE PLUG
J	35607829	1	EYEBOLT
K	35607837	1	SPRING
L	12A5D2Z1	2	WASHER
M	36772028	1	NYLON WASHER
N	67A4C1Z1	1	NUT
P	36853414	1	PRESSURE GAGE
Q	35605229	1	HOURMETER
R	36513695	1	PRESTIGE DECAL

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

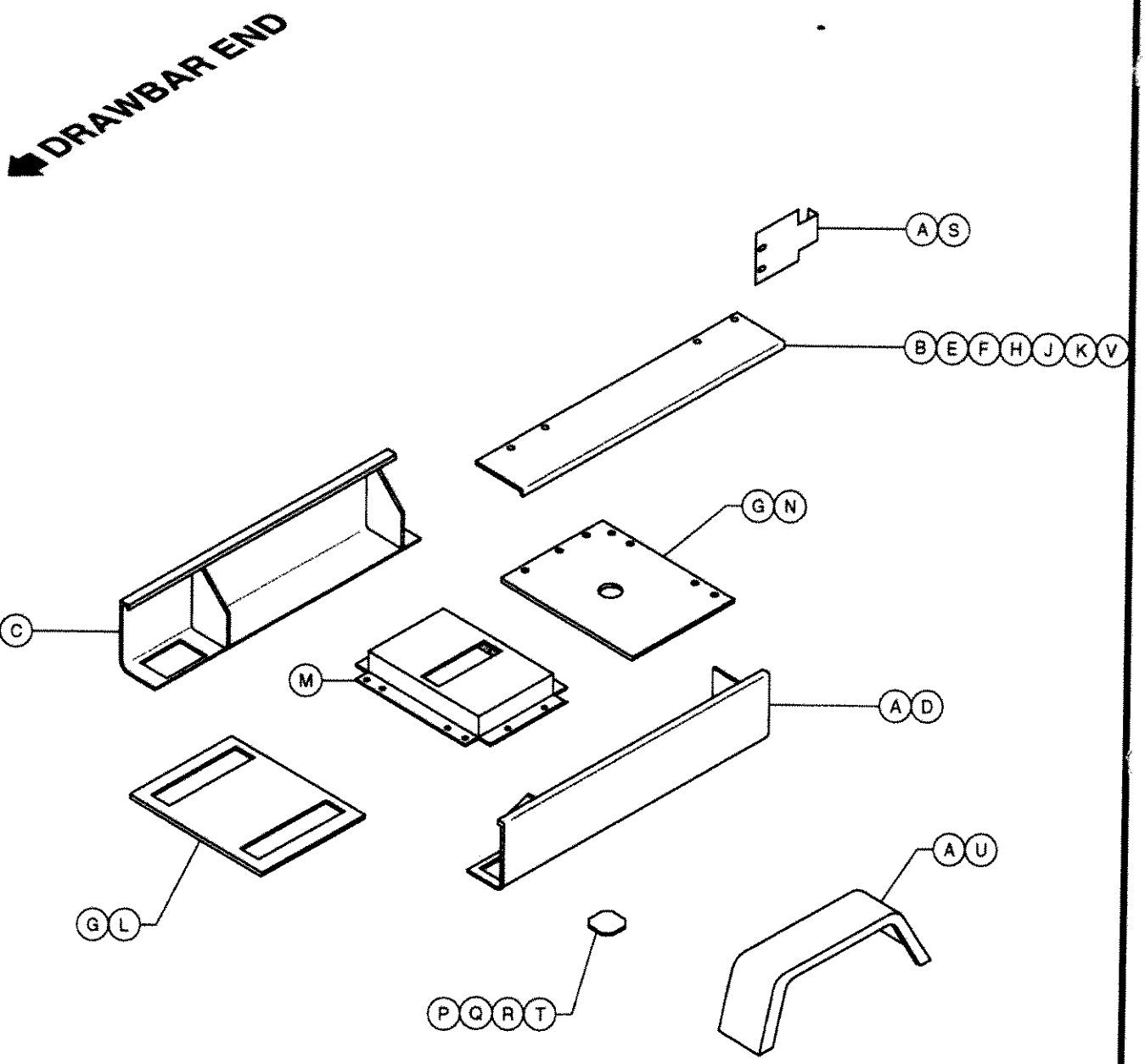
DESCRIPTION				
INSTRUMENT/CONTROL PANEL ASSY				
DATE/DWN BY:	REV:	DATE/CHKD BY	DATE/APVD BY	
1/7/94	A			
MODEL NO.	ILLUSTRATION NO.	SHEET NO.	E/C	
P-130CWJD P-250AWJD	36522480	2 of 2	27688	



INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION ENCLOSURE COMPLETE			
DATE/DWN BY: 1/31/94	REV: A	DATE/CHKD BY: 10/95	DATE/APVD BY:
MODEL NO. P-250AWJD	ILLUSTRATION NO. 36511764	SHEET NO. 1 of 4	E/C 27688

ITEM	C.P.N.	QTY	DESCRIPTION
A	92368687	54	SCREW
B	36798999	1	ROOF
C	121A2A142Z1	4	SCREW
D	12A5D2Z1	4	WASHER
E	36798965	1	LIFTING BAIL COVER
F	16A4C1Z1	4	NUT
G	36794816	8	RIVET
H	36797652	50	SCREW
J	36850147	1	FRONT END COVER
K	35285543	2	HOLE PLUG
L	36853463	2	INST PANEL BUMPER
M	35821818	1	LH SIDE SUPPORT
N	35821826	1	RH SIDE SUPPORT
P	36708378	2	HINGE
Q	36796746	2	DOOR
R	36793602	2	LATCH
S	36788891	1	RH COOLER BAFFLE
T	36788883	1	LH COOLER BAFFLE
U	36788370	1	REAR END COVER
V	36794774	2	LICENSE GROMMET
W	36787349	2	REFLECTOR
X	36787968	2	GROMMET
Y	36791531	1	RADIATOR FILL DOOR
Z	36795243	1	OVERFLOW FILL DOOR
A1	35504364	1	RAIN CAP
A2	35584937	1	EXHAUST COVER
A3	16M4JC22M3	8	NUT
A4	12A5D3Z1	8	WASHER
A5	35337328	8	BALL STUD
A6	35600287	4	GAS SPRING

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DESCRIPTION ENCLOSURE COMPLETE				
DATE/DWN BY: 1/31/94	REV: A	DATE/CHKD BY:	DATE/APVD BY	
MODEL NO. P-250AWJD	ILLUSTRATION NO. 36511764	SHEET NO. 2 of 4	E/C 27688	

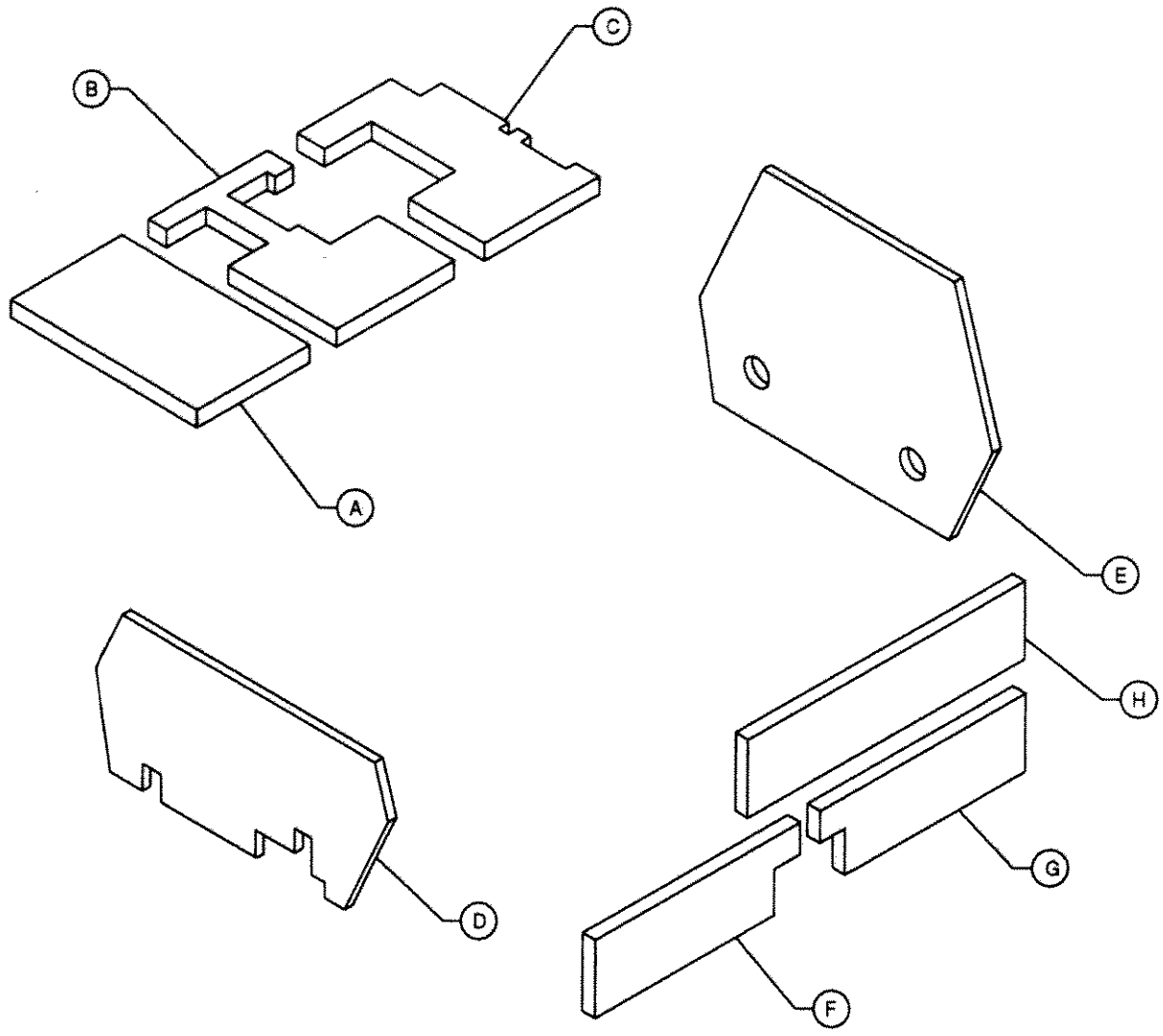


INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION ENCLOSURE COMPLETE			
DATE/DWN BY: 1/31/94 H	REV: A	DATE/CHKD BY: 2-4 10/95	DATE/APVD BY: JF
MODEL NO. P-250AWJD	ILLUSTRATION NO. 36511764	SHEET NO. 3 of 4	E/C 27688

ITEM	C.P.N.	QTY	DESCRIPTION
A	92368687	38	SCREW
B	35279025	2	SCREW
C	36796753	1	RH LOWER ENCLOSURE
D	36797579	1	LH LOWER ENCLOSURE
E	36786861	2	SPACER
F	36788768	1	STUD
G	36797652	20	SCREW
H	36783512	2	STUD
J	36783496	2	RETAINER
K	36783504	2	RECEPTACLE
L	36794741	1	BAFFLE BELLY PAN
M	36794733	1	A/E BELLY PAN
N	36794725	1	ENGINE BELLY PAN
P	35256429	4	STUD
Q	35256445	4	RETAINER
R	35256452	4	RECEPTACLE
S	36790566	1	TOOLBOX COVER
T	35279413	1	COVER
U	36774917	2	FENDER
V	36790558	1	TOOLBOX GUARD

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

DESCRIPTION			
ENCLOSURE COMPLETE			
DATE/DWN BY:	REV:	DATE/CHKD BY	DATE/APVD BY
1/31/94 B	A	2-2-1995	JC
MODEL NO.	ILLUSTRATION NO.	SHEET NO.	E/C
P-250AWJD	36511764	4 of 4	27688

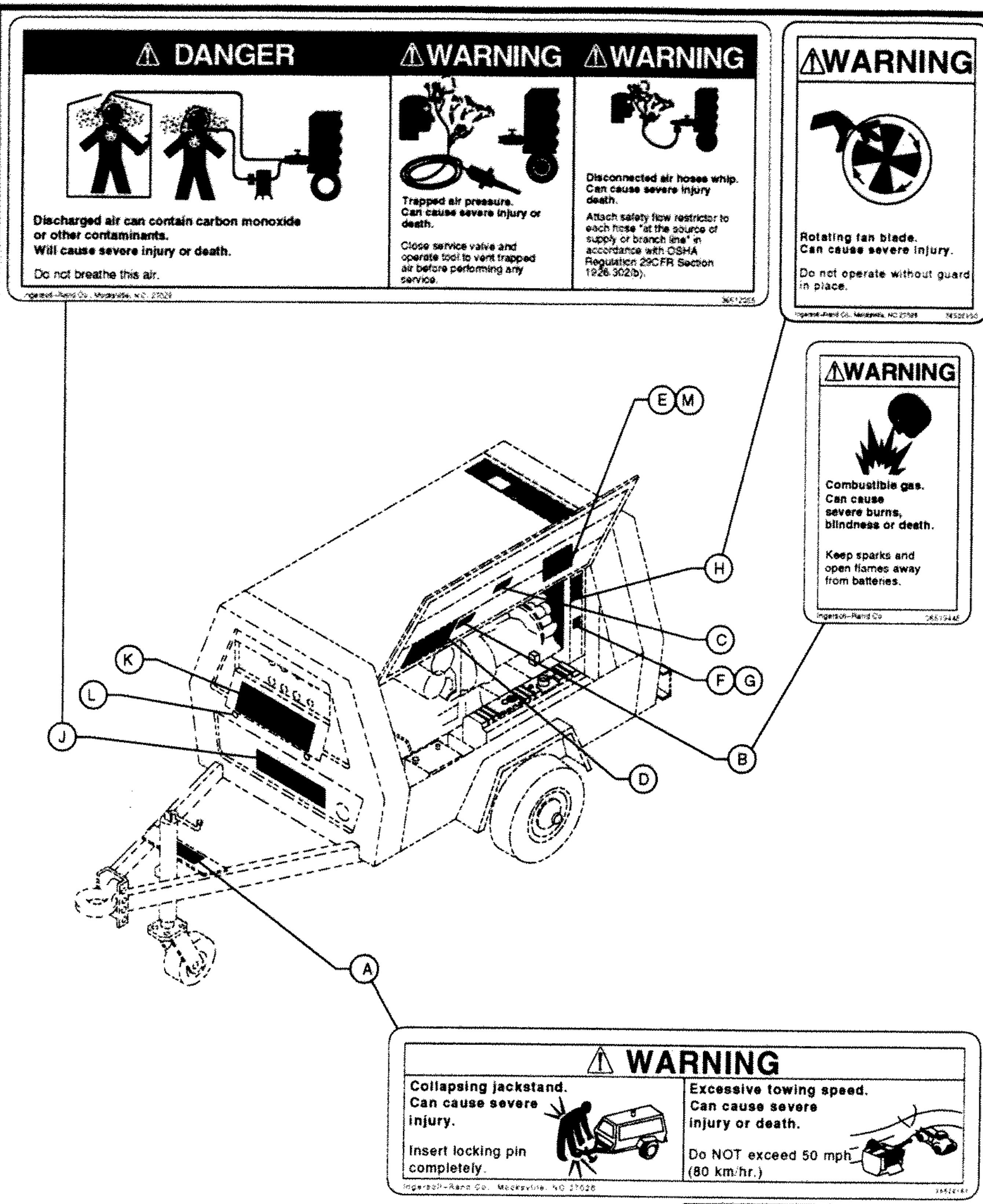


INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION ACOUSTICAL PANEL COMPLETE			
DATE/DWN BY: 10/27/93 bl	REV: A	DATE/CHKD BY: 10/95	DATE/APVD BY: JA
MODEL NO. P-250WJD	ILLUSTRATION NO. 36522068	SHEET NO. 1 of 2	E/C 27544

ITEM	C.P.N.	QTY	DESCRIPTION
A	36796134	1	ACST PNL ROOF DRAWBAR
B	36799575	1	ACST PNL ROOF LIFTING BAIL
C	36796159	1	ACST PNL ROOF BUMPER
D	36796092	1	ACST PNL FRONT COVER
E	36796084	1	ACST PNL REAR COVER
F	36799898	2	ACST PNL DRAWBAR DOOR LATCH
G	36799880	2	ACST PNL BUMPER DOOR LATCH
H	36796126	2	ACST PNL BUMPER DOOR HINGE

INGERSOLL-RAND COMPANY
PORTABLE COMPRESSOR DIVISION

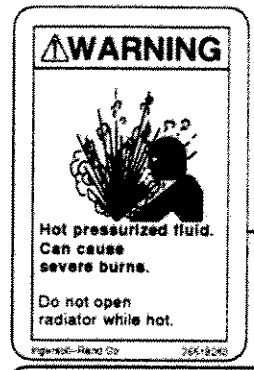
DESCRIPTION				
ACOUSTICAL PANEL COMPLETE				
DATE/DWN BY:	REV:	DATE/CHKD BY:	DATE/APVD BY:	
10/27/93	A			
MODEL NO.	ILLUSTRATION NO.	SHEET NO.	E/C	
P-250WJD	36522068	2 of 2	27544	

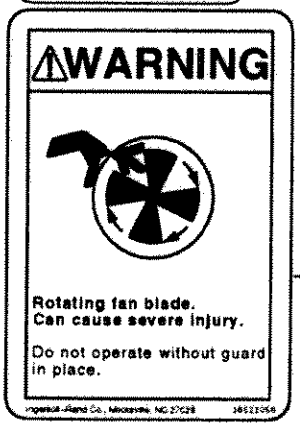


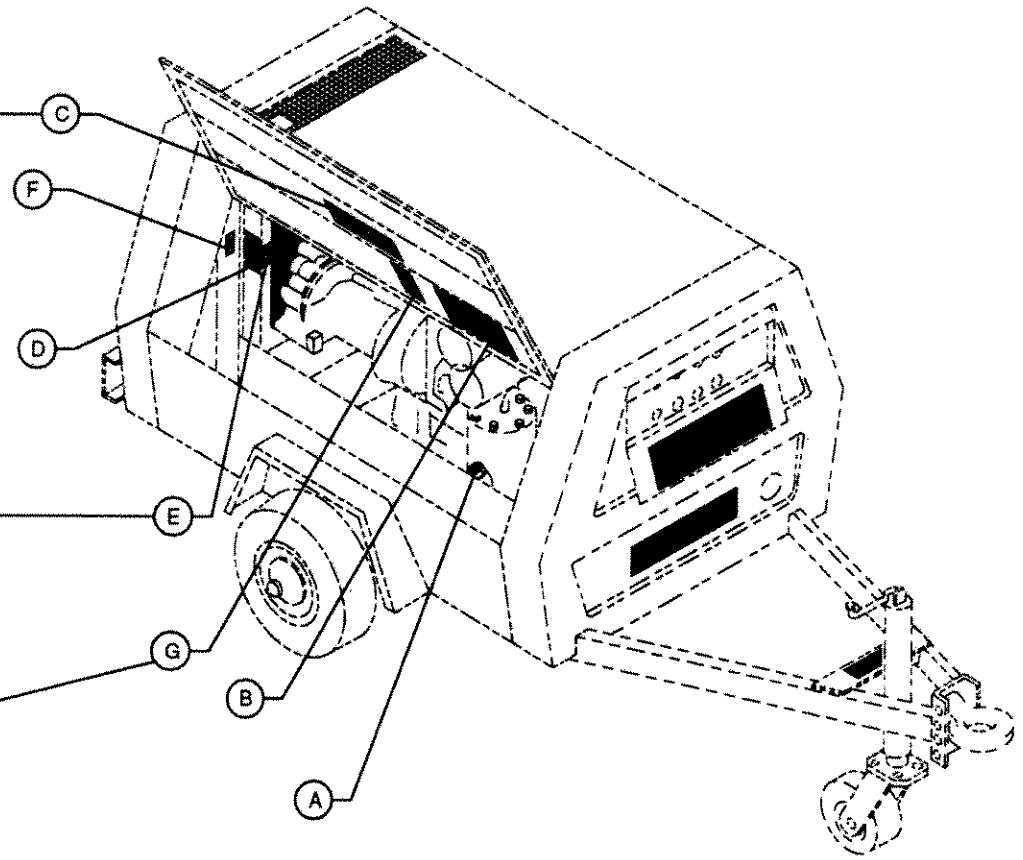
INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DESCRIPTION: DECAL LOCATION CHART				
DATE/DWN BY: 1/31/94 [illegible]	REV: C	DATE/CHKD BY: [illegible]	DATE/APVD BY: [illegible]	
MODEL NO.: P-250AWJD	ILLUSTRATION NO.: 36511780	SHEET NO.: 1 of 4	E/C: 27839	

ITEM	C.P.N.	DESCRIPTION
A	36520161	2–PART DRAWBAR WARNING
B	36519445	BATTERY GAS WARNING
C	36516474	DIESEL FUEL
D	36522506	WIRING DIAGRAM
E	36522290	SAFETY CARD
F	36794816	RIVET
G	36523306	SERIAL NUMBER PLATE
H	36522050	ROTATING FAN WARNING
J	36512325	3–PART DANGER/WARNING
K	36865095	OPERATING INSTRUCTIONS
L	36860872	BUMPER LOCATION
M	36847861	CABLE TIE

INGERSOLL–RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: DECAL LOCATION CHART			
DATE/DWN BY: 1/31/94 B	REV: C	DATE/CHKD BY: 2/4 10/95	DATE/APVD BY: JF
MODEL NO.: P–250AWJD	ILLUSTRATION NO.: 36511780	SHEET NO.: 2 of 4	E/C: 27839



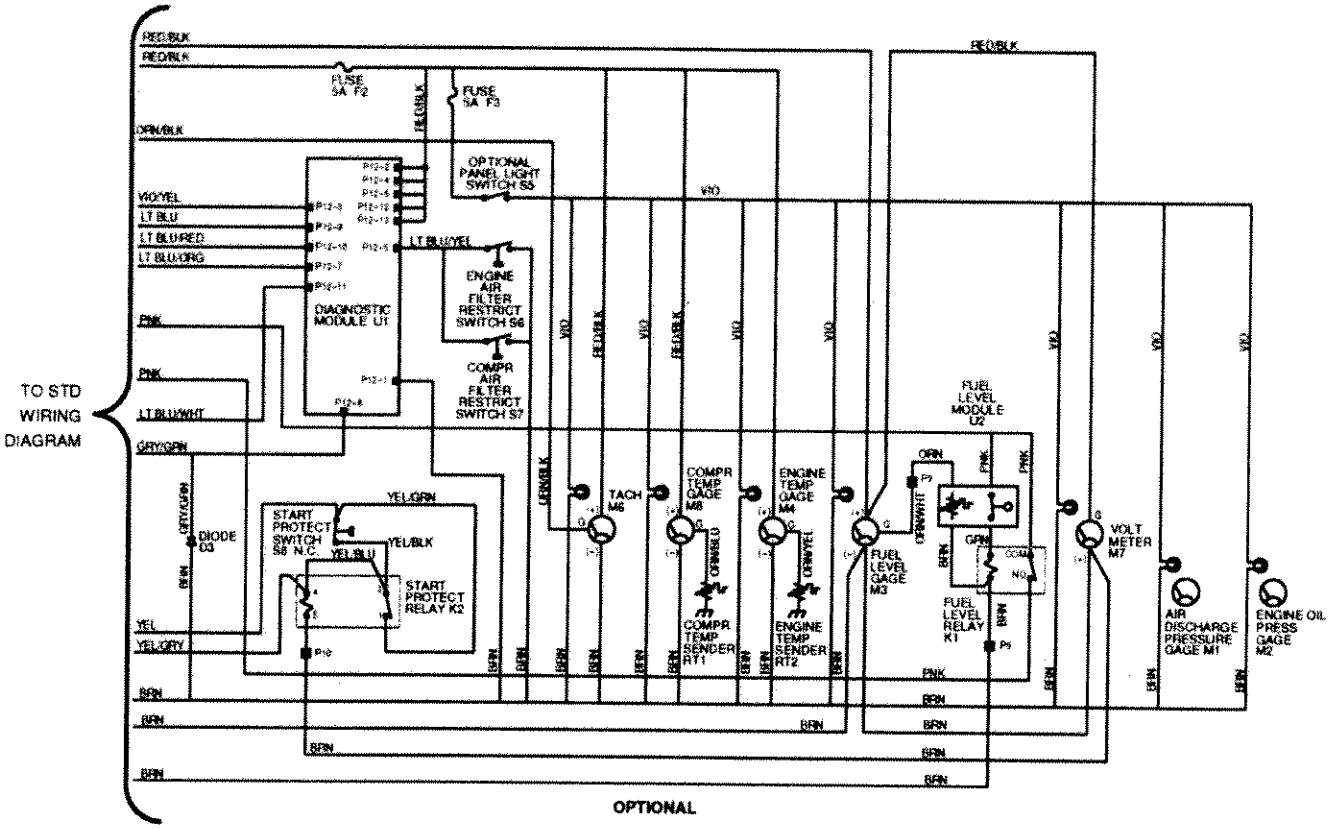




INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: DECAL LOCATION CHART			
DATE/DWN BY: 1/31/94 d	REV: C	DATE/CHKD BY: JA 10/95	DATE/APVD BY: JA
MODEL NO.: P–250AWJD	ILLUSTRATION NO.: 36511780	SHEET NO.: 3 of 4	E/C: 27619

ITEM	C.P.N.	DESCRIPTION
A	36518108	OIL FILL
B	36523165	GENERAL DATA
C	36514644	SPEED/PRESS REGULATION
D	36516847	RADIATOR FILL
E	36522050	ROTATING FAN WARNING
F	36518280	HOT PRESS FLUID WARNING
G	36522027	HIGH PRESSURE WARNING

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: DECAL LOCATION CHART			
DATE/DWN BY: 1/31/94 B	REV: D	DATE/CHKD BY: 11/95	DATE/APVD BY:
MODEL NO.: P-250AWJD	ILLUSTRATION NO.: 36511780	SHEET NO.: 4 of 4	E/C: 27892

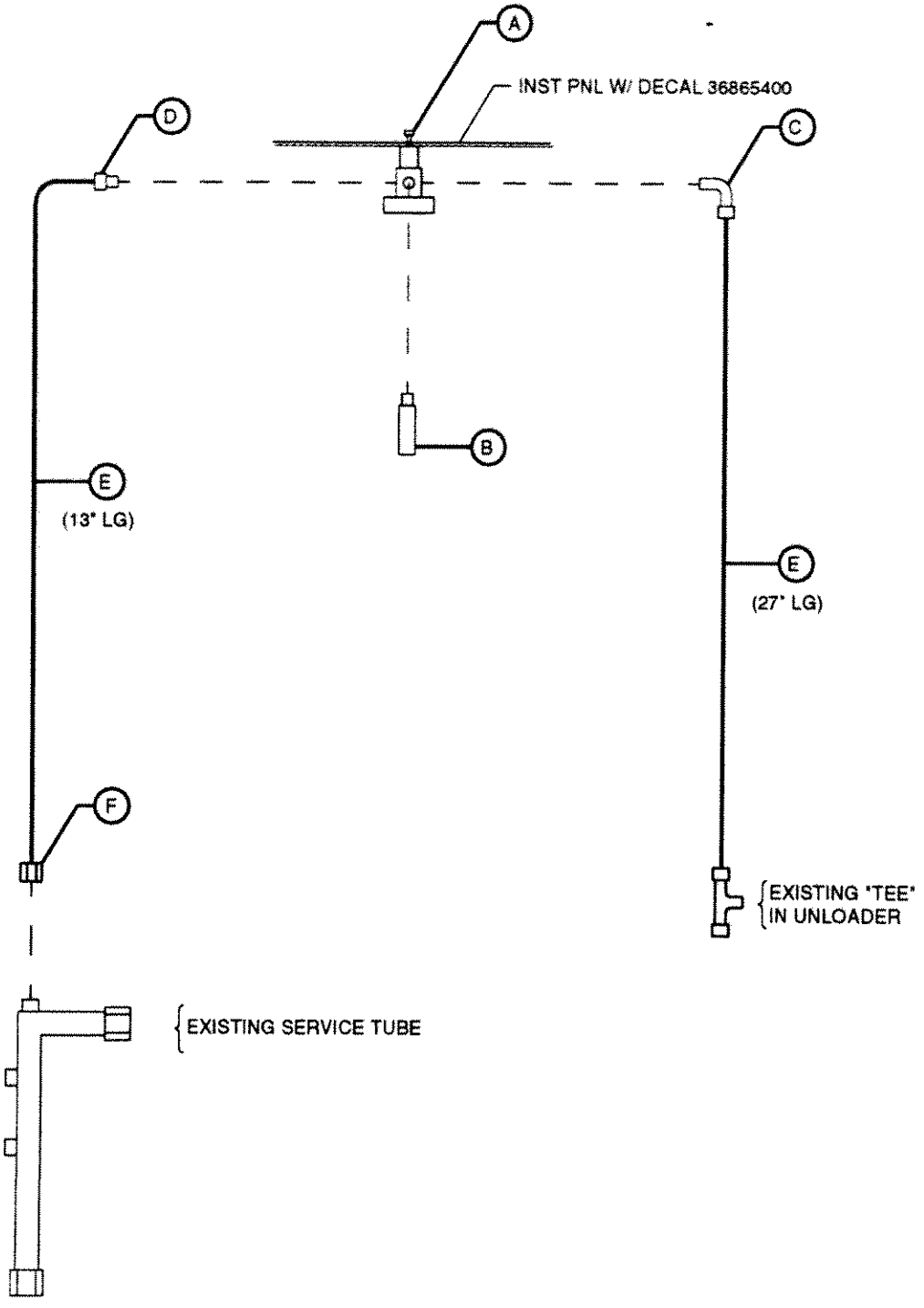


INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DESCRIPTION: OPTION WIRING DIAGRAM				
DATE/DWN BY: 1/28/94 bl	REV: A	DATE/CHKD BY: 1/29	DATE/APVD BY:	
MODEL NO.: P130CWJD P250AWJD	ILLUSTRATION NO.: 36511848	SHEET NO.: 1 of 2	E/C: 27713	

ITEM		C.P.N.	DESCRIPTION
D3		35376169	DIODE
F2		36782654	FUSE, 5A
F3		36782654	FUSE, 5A
K1		36856979	RELAY, FUEL LEVEL
K2		35583442	RELAY, START PTCT
M2		36853406	GAGE, ENG OIL TEMP
M3		35604099	GAGE, FUEL LEVEL
M4		35604115	GAGE, ENG TEMP
M6		35371566	TACHOMETER
M7		36769230	VOLTMETER
M8		35604115	GAGE, CPRSR TEMP
RT1	★	35372457	SDR, CPRSR TEMP
	★★	35367218	SDR, CPRSR TEMP
RT2		35604180	SDR, ENG TEMP
S5		35337435	SWITCH, LIGHT
S6		36778488	SWITCH, ENG AIR FLTR
S7		36778488	SWITCH, CPRSR AIR FLTR
S8		36757573	SWITCH, START PTCT
U1		36771426	MODULE, DIAGNOSTIC
U2		36865301	MODULE, FUEL LEVEL
		36865459	HARNESS, INSTRUMENT

★ FOR MODELS P-130C - P-185D-W-JD
★★ FOR MODEL P-250A-W-JD

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION			
DESCRIPTION: OPTION WIRING DIAGRAM			
DATE/DWN BY: 1/28/94 B	REV: B	DATE/CHKD BY: 2/2 10/95	DATE/APVD BY: DF
MODEL NO.: P130CWJD P250AWJD	ILLUSTRATION NO.: 36511848	SHEET NO.: 2 of 2	E/C: 28113



INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DESCRIPTION START / RUN VALVE OPTION				
DATE/DWN BY: 1/6/95 d	REV: A	DATE/CHKD BY: 10/95	DATE/APVD BY:	
MODEL NO. P-250AWJD	ILLUSTRATION NO. 36525327	SHEET NO. 1 of 2	E/C 27789	

ITEM		C.P.N.	DESCRIPTION
A	★	35607522	START / RUN VALVE
B		36766731	ORIFICE MUFFLER
C		35369354	ELBOW
D		35369347	CONNECTOR, MALE
E		35356484	TUBING
F		35369339	CONNECTOR, FEMALE

★ 35387901 VALVE REPAIR KIT;
35387919 DIAPHRAM REPAIR KIT

NOTE:
AIR PIPING TO REMAIN INTACT EXCEPT FOR MODIFICATIONS SHOWN.

INGERSOLL-RAND COMPANY PORTABLE COMPRESSOR DIVISION				
DESCRIPTION START / RUN VALVE OPTION				
DATE/DWN BY: 1/6/95 B	REV: A	DATE/CHKD BY: 1/6/95	DATE/APVD BY: 1/6/95	
MODEL NO. P-250AWJD	ILLUSTRATION NO. 36525327	SHEET NO. 2 of 2	E/C 27789	