



PORTABLE AIR COMPRESSOR **125, 130, 160H, 185 CFM and 49 HP Models**

CATERPILLAR, JOHN DEERE, PERKINS

OPERATOR'S MANUAL AND PARTS LIST

**KEEP FOR
FUTURE
REFERENCE**

Part Number

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for **Portable Compressor Serial
Number :**

004-151422

and all subsequent Serial
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ENTIRE INSTRUCTION MANUAL**

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Section 1 SAFETY

1.1 GENERAL

Sullair Corporation designs and manufactures all of its products so they can be operated safely. However, the responsibility for safe operation rests with those who use and maintain these products. The following safety precautions are offered as a guide which, if conscientiously followed, will minimize the possibility of accidents throughout the useful life of this equipment. Read the CIMA Safety Manual prior to compressor operation and towing, if applicable in your area.

The air compressor should be operated only by those who have been trained and delegated to do so, and who have read and understood this Operator's Manual. Failure to follow the instructions, procedures and safety precautions in this manual can result in accidents and injuries.

NEVER start the air compressor unless it is safe to do so. **DO NOT** attempt to operate the air compressor with a known unsafe condition. Tag the air compressor and render it inoperative by disconnecting the battery so others who may not know of the unsafe condition will not attempt to operate it until the condition is corrected.

Use and operate the air compressor only in full compliance with all pertinent OSHA requirements and/or all pertinent Federal, State and Local codes or requirements.

DO NOT modify the compressor except with written factory approval.

Each day walk around the air compressor and inspect for leaks, loose or missing parts, damaged parts or parts out of adjustment. Perform all recommended daily maintenance.

Inspect for torn, frayed, blistered or otherwise deteriorated and degraded hoses. Replace as required.

NOTE

Estimated hose life based on a 5-day 8-hour work week is 3 years. These conditions exist on an 8-hour shift only. Any other operation of the equipment other than 8-hour shifts would shorten the hose life based on hours of operation.

1.2 TOWING (I)

NOTE

DO NOT tow the compressor should its weight exceed the rated limit of the tow vehicle, as the vehicle may not brake safely with excess weight.

continued

NOTE (CONT.)

See rated limit in tow vehicle Operator's Manual, and review its instructions and other requirements for safe towing.

A. PREPARING TO TOW

1. Prior to hitching the air compressor to the tow vehicle, inspect all attachment parts and equipment, checking for (i) signs of excessive wear or corrosion, (ii) parts that are cracked, bent, dented or otherwise deformed or degraded, and (iii) loose nuts, bolts or other fasteners. Should any such condition be present, **DO NOT TOW** until the problem is corrected.
2. Back the tow vehicle to the compressor and position it in preparation for coupling the compressor.
3. If the compressor is provided with a drawbar latched in the vertical upright position, carefully unlatch drawbar and lower it to engage the coupling device. If not, raise drawbar to engage coupling device or otherwise couple the compressor to the towing vehicle.



WARNING

This equipment may be tongue heavy. **DO NOT** attempt to raise or lower the drawbar by hand if the weight is more than you can safely handle.

Use the screw jack provided or a chain fall if you cannot lift or lower it without avoiding injury to yourself or others. Keep hands and fingers clear of the coupling device and all other pinch points. Keep feet clear of drawbar to avoid injury in case it should slip from your hands.

4. Make sure the coupling device is fully engaged, closed and locked.
5. If chains are provided, pass each chain through its point of attachment on the towing vehicle; then hook each chain to itself by passing the grab hook over (not through) a link. Cross chains under front of drawbar before passing them through points of attachment on towing vehicle to support front of drawbar in case it should accidentally become uncoupled.
6. Make sure that the coupling device and adjacent structures on the towing vehicle (and also, if utilized, chain adjustment, brake and/or electrical interconnections) **DO NOT** interfere with or restrict motion of any part of the compressor, including its

(I) While not towed in the usual sense of the word, many of these instructions are directly applicable to skid-mounted portable air compressors as well.

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coupling device, with respect to the towing vehicle when maneuvering over any anticipated terrain.

7. If provided, make sure chain length, brake and electrical interconnections provide sufficient slack to prevent strain when cornering and maneuvering, yet are supported so they cannot drag or rub on road, terrain or towing vehicle surfaces which might cause wear that could render them inoperative.



WARNING

Retract the front screw jack only after attaching the compressor to the tow vehicle. Raise the screw jack to its full up position and pull the pin connecting the jack to the drawbar. Rotate the screw jack to its stowed position, parallel to the drawbar, and reinsert the pin. Make sure the jack is secured in place prior to towing.

If a caster wheel is provided on the screw jack it is part of the screw jack and can not be removed. Follow the same procedure for stowing away the wheeled jack as you would for the standard screw jack. Pull the pin connecting the jack to the drawbar and raise the screw jack to its full up position. Rotate the screw jack to its stowed position, parallel to the drawbar, and reinsert the pin. Make sure the jack is secured in place prior to towing.



WARNING

This equipment may be tongue heavy. **DO NOT** attempt to raise or lower the drawbar by hand if the weight is more than you can safely handle.

8. On two-wheeled models, fully retract front screw jack and any rear stabilizer legs. If a caster wheel is provided on the screw jack it is part of the screw jack and can not be removed. Follow the same procedure for stowing away the wheeled jack as you would for the standard screw jack. Pull the pin connecting the jack to the drawbar and raise the screw jack to its full up position. Rotate the screw jack to its stowed position, parallel to the drawbar, and reinsert the pin. Make sure the jack is secured in place prior to towing.

9. Make sure tires are in good condition and are the size (load range) specified and are inflated to the specified pressures. **DO NOT** change the tire size or type. Also, make sure wheel bolts, lugs or nuts are tightened to the specified torques.

10. If provided, make sure all dual stop, tail directional and clearance lights are operating properly and that their lenses are clean and functional. Also, make sure all reflectors and reflecting surfaces, including the slow moving vehicle emblem on com-

pressors provided with same, are clean and functional.

11. Make sure all service air hoses (not air brake hoses) are disconnected or are fully stowed and secured on hose reels, if provided.

12. Make sure all access doors and tool box covers are closed and latched. If the compressor is large enough to hold a man, make sure all personnel are out before closing and latching access doors.

13. Make sure parking brakes in towing vehicle are set, or that its wheel are chocked or blocked, or that it is otherwise restrained from moving. Then, release the compressor parking brakes, if provided.

14. Make sure the compressor wheels are not chocked or blocked, and that all tie-downs, if any, are free.

15. Test running brake operation, including break-away switch operation if provided, before attempting to tow the compressor at its rated speed or less when conditions prevail.

16. **DO NOT** carry loose or inappropriate tools, equipment or supplies on or in the compressor.

17. **DO NOT** load this equipment with accessories or tools such that it is unbalanced from side to side or front to back. Such unbalance will reduce the towability of this equipment and may increase the possibility of tipping, rolling over, jackknifing, etc. Loss of control of the towing vehicle may result.

B. TOWING

1. Observe all Federal, State, and Local laws while towing this equipment (including those specifying minimum speed).

2. **DO NOT** exceed the towing speeds listed below under ideal conditions. Reduce your speed according to posted speed limits, weather, traffic, road or terrain conditions.

a. Two axle four-wheel steerable models: 15MPH (24KMPH).

b. All other models: 55 MPH (88KMPH).

3. Remember that the portable air compressor may approach or exceed the weight of the towing vehicle. Maintain increased stopping distances accordingly. **DO NOT** make sudden lane changes, U-turns, or other maneuvers. Such maneuvers can cause the compressor to tip, roll over, jackknife or slide and cause loss of control of the towing vehicle. Tipping, rolling over, etc. can occur suddenly without warning. U-turns especially should be made slowly and carefully.

4. Avoid grades in excess of 15° (27%).

5. Avoid potholes, rocks and other obstructions, and soft shoulders or unstable terrain.

6. Maneuver in a manner that will not exceed the freedom of motion of the compressor's drawbar and/or coupling device, in or on the towing vehicle's coupling device and/or adjacent structure whether towing forward or backing up, regardless of the terrain being traversed.

7. **DO NOT** permit personnel to ride in or on the compressor.

8. Make sure the area behind, in front of, and under the compressor is clear of all personnel and obstructions prior to towing in any direction.

9. **DO NOT** permit personnel to stand or ride on the drawbar, or to stand or walk between the compressor and the towing vehicle.

C. PARKING OR LOCATING COMPRESSOR

1. Park or locate compressor on a level surface, if possible. If not, park or locate compressor across grade so the compressor does not tend to roll downhill. **DO NOT** park or locate compressor on grades exceeding 15° (27%).

2. Make sure compressor is parked or located on a firm surface than can support its weight.

3. Park or locate compressor so the wind, if any, tends to carry the exhaust fumes and radiator heat away from the compressor air inlet openings, and also where the compressor will not be exposed to excessive dust from the work site.

4. On four-wheel models, park compressor with front wheels in straight ahead position.

5. Set parking brakes and disconnect breakaway switch cable and all other interconnecting electrical and/or brake connections, if provided.

6. Block or chock both sides of all wheels.

7. If provided, unhook chains and remove them from the points of chain attachment on the towing vehicle, then hook chains to bail on drawbar or wrap chains around the drawbar and hook them to themselves to keep chains off the ground which might accelerate rusting.

8. Lower front screw jack and/or any front and rear stabilizer legs. Make sure the surface they contact has sufficient load bearing capability to support the weight of the compressor.

WARNING

Retract the front screw jack only after attaching the compressor to the tow vehicle.

continued

WARNING (cont).

Raise the screw jack to its full up position and pull the pin connecting the jack to the drawbar. Rotate the screw jack to its stowed position, parallel to the drawbar, and reinsert the pin. Make sure the jack is secured in place prior to towing.

If a caster wheel is provided on the screw jack it is part of the screw jack and can not be removed. Follow the same procedure for stowing away the wheeled jack as you would for the standard screw jack. Pull the pin connecting the jack to the drawbar and raise the screw jack to its full up position. Rotate the screw jack to its stowed position, parallel to the drawbar, and reinsert the pin. Make sure the jack is secured in place prior to towing.

WARNING

This equipment may be tongue heavy. **DO NOT** attempt to raise or lower the drawbar by hand if the weight is more than you can safely handle.

9. If a caster wheel is provided on the screw jack it is part of the screw jack and can not be removed. Follow the same procedure for stowing away the wheeled jack as you would for the standard screw jack. Raise the screw jack to its full up position and pull the pin connecting the jack to the drawbar. Rotate the screw jack to its stowed position, parallel to the drawbar, and reinsert the pin. Make sure the jack is secured in place prior to towing.

10. Disconnect coupling device, keeping hands and fingers clear of all pinch points. If the compressor is provided with a drawbar, **DO NOT** attempt to lift the drawbar or if hinged, to raise it to the upright position, by hand, if the weight is more than you can safely handle. Use a screwjack or chain fall if you cannot lift or raise the drawbar without avoiding injury to yourself or others.

11. When possible, stow hinged drawbar in the vertical upright position. Make certain it is securely latched in the vertical upright position. Keep feet clear of drawbar at all times to avoid crushing accidents in case it should slip from your hands or otherwise fall to the ground.

12. Move the towing vehicle well clear of the parked compressor and erect hazard indicators, barricades and/or flares (if at night) if compressor is parked on or adjacent to public roads. Park so as not to interfere with traffic.

1.3 PRESSURE RELEASE

A. Open the pressure relief valve at least weekly to make sure it is not blocked, closed, obstructed or

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otherwise disabled.

B. Install an appropriate flow-limiting valve between the compressor service air outlet and the shutoff (throttle) valve, when an air hose exceeding 1/2" (13mm) inside diameter is to be connected to shut-off (throttle) valve, to reduce pressure in case of hose failure, per OSHA Standard 29 CFR 1926.302 (b) (7) or any applicable Federal, State and Local codes, standards and regulations.

C. When the hose is to be used to supply a manifold, install an additional appropriate flow-limiting valve between the manifold and each air hose exceeding 1/2" (13mm) inside diameter that is to be connected to the manifold to reduce pressure in case of hose failure.

D. Provide an appropriate flow-limiting valve for each additional 75 feet (23 meters) of hose in runs of air hose exceeding 1/2" (13mm) inside diameter to reduce pressure in case of hose failure.

E. Flow-limiting valves are listed by pipe size and rated CFM. Select appropriate valve accordingly.

F. DO NOT use tools that are rated below the maximum rating of this compressor. Select tools, air hoses, pipes, valves, filters and other fittings accordingly. **DO NOT** exceed manufacturer's rated safe operating pressures for these items.

G. Secure all hose connections by wire, chain or other suitable retaining device to prevent tools or hose ends from being accidentally disconnected and expelled.

H. Open fluid filler cap only when compressor is not running and is not pressurized. Shut down the compressor and bleed the sump (receiver) to zero internal pressure before removing the cap.

I. Vent all internal pressure prior to opening any line, fitting, hose, valve, drain plug, connection or other component, such as filters and line oilers, and before attempting to refill optional air line anti-icer systems with antifreeze compound.

J. Keep personnel out of line with and away from the discharge opening of hoses, tools or other points of compressed air discharge.

K. DO NOT use air at pressures higher than 30 psig (2.1 bar) for cleaning purposes, and then only with effective chip guarding and personal protective equipment per OSHA Standard 29 CFR 1910.242 (b) or any applicable Federal, State and Local codes, standards and regulations.

L. DO NOT engage in horseplay with air hoses as death or serious injury may result.

M. This equipment is supplied with an ASME designed pressure vessel protected by an ASME rated relief valve. Lift the handle once a week to make sure the valve is functional. **DO NOT** lift the handle while machine is under pressure.

N. If the machine is installed in an enclosed area it is necessary to vent the relief valve to the outside of the structure or to an area of non-exposure.

O. DO NOT remove radiator filler cap until the coolant temperature is below its boiling point. Then loosen cap slowly to its stop to relieve any excess pressure and make sure coolant is not boiling before removing cap completely. Remove radiator filler cap only when cool enough to touch with a bare hand.

P. The ethyl ether in the replaceable cylinders used in diesel ether starting aid systems (optional) is under pressure. **DO NOT** puncture or incinerate those cylinders. **DO NOT** attempt to remove the center valve core or side pressure relief valve from these cylinders regardless of whether they are full or empty.

Q. If a manual blowdown valve is provided on the receiver, open the valve to insure all internal pressure has been vented prior to servicing any pressurized component of the compressor air/fluid system.

1.4 FIRE AND EXPLOSION

A. Refuel at a service station or from a fuel tank designed for its intended purpose. If this is not possible, ground the compressor to the dispenser prior to refueling.

B. Clean up spills of fuel, fluid, battery electrolyte or coolant immediately if such spills occur.

C. Shut off air compressor and allow it to cool. Then keep sparks, flames and other sources of ignition away and **DO NOT** permit smoking in the vicinity when adding fuel, or when checking or adding electrolyte to batteries, or when checking or adding fluid, or when checking diesel engine ether starting aid systems or replacing cylinders, or when refilling air line anti-icer systems antifreeze compound.

D. DO NOT permit liquids, including air line anti-icer system antifreeze compound or fluid film to accumulate on bottom covers or on, under or around acoustical material, or on any external or internal surfaces of the air compressor. Wipe down using an aqueous industrial cleaner or steam clean as required. If necessary remove acoustical material, clean all surfaces and then replace acoustical

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material. Any acoustical material with a protective covering that has been torn or punctured should be replaced immediately to prevent accumulation of liquids or fluid film within the material. **DO NOT** use flammable solvents for cleaning purposes.

E. Disconnect the grounded (negative) battery connection prior to attempting any repairs or cleaning inside the enclosure. Tag the battery connections so others will not unexpectedly reconnect it.

F. Keep electrical wiring, including the battery terminals and other terminals, in good condition. Replace any wiring that has cracked, cut abraded or otherwise degraded insulation or terminals that are worn, discolored or corroded. Keep all terminals clean and tight.

G. Turn off battery charger before making or breaking connections to the battery.

H. Keep grounded conductive objects such as tools away from exposed live electrical parts such as terminals to avoid arcing which might serve as a source of ignition.

I. Replace damaged fuel tanks or lines immediately rather than attempt to weld or otherwise repair them. **DO NOT** store or attempt to operate the compressor with any known leaks in the fuel system. Tag the compressor and render it inoperative until repair can be made.

J. Remove any acoustical material or other material that may be damaged by heat or that may support combustion prior to attempting weld repairs. Remove diesel engine ether starting aid cylinders and air line anti-icer system components containing antifreeze compound, prior to attempting weld repairs in any place other than the fuel system. **DO NOT** weld on or near the fuel system.

K. Keep a suitable fully charged class BC or ABC fire extinguisher or extinguishers nearby when servicing and operating the compressor.

L. Keep oily rags, trash, leaves, litter or other combustibles out of and away from the compressor.

M. Open all access doors and allow the enclosure to ventilate thoroughly prior to attempting to start the engine.

N. DO NOT operate compressor under low overhanging leaves or permit such leaves to contact hot exhaust system surfaces when operating the compressor in forested areas.

O. Ethyl ether used in diesel engine ether starting aid systems is extremely flammable. Change cylinders, or maintain or troubleshoot these systems

only in well-ventilated areas away from heat, open flame or sparks. **DO NOT** install, store or otherwise expose ether cylinders to temperatures above 160°F (71°C). Remove ether cylinder from the compressor when operating in ambient temperatures above 60°F (16°C).

P. DO NOT attempt to use ether as a starting aid in gasoline engines or diesel engines with glow plugs as serious personnel injury or property damage may result.

Q. DO NOT spray ether into compressor air filter or into an air filter that serves both the engine and the compressor as serious damage to the compressor or personal injury may result.

R. Antifreeze compound used in air line anti-icer systems contains methanol which is flammable. Use systems and refill with compound only in well-ventilated areas away from heat, open flames or sparks. **DO NOT** expose any part of these systems or the antifreeze compound to temperatures above 150°F (66°C). Vapors from the antifreeze compound are heavier than air. **DO NOT** store compound or discharge treated air in confined or unventilated areas. **DO NOT** store containers or antifreeze compound in direct sunlight.

S. Store flammable fluids and materials away from your work area. Know where fire extinguishers are and how to use them, and for what type of fire they are intended. Check readiness of fire suppression systems and detectors if so equipped.

1.5 MOVING PARTS

A. Keep hands, arms and other parts of the body and also clothing away from belts, pulleys and other moving parts.

B. DO NOT attempt to operate the compressor with the fan or other guards removed.

C. Wear snug-fitting clothing and confine long hair when working around this compressor, especially when exposed to hot or moving parts inside the enclosure.

D. Keep access doors closed except when making repairs or adjustments, performing service or when starting or stopping the compressor.

E. Make sure all personnel are out of and clear of the compressor prior to attempting to start or operate it.

F. Shut off engine before adding fuel, fluid, coolant lubricants, air line antifreeze compound or battery electrolyte, or before replacing ether starting aid cylinders.

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G. Disconnect the grounded negative battery connection to prevent accidental engine operation prior to attempting repairs or adjustments. Tag the battery connection so others will not unexpectedly reconnect it.

H. When adjusting the controls, it may require operation of the equipment during adjustment. **DO NOT** come in contact with any moving parts while adjusting the control regulator and setting the engine RPM. Make all other adjustments with the engine shut off. When necessary, make adjustment, other than setting control regulator and engine RPM, with the engine shut off. If necessary, start the engine and check adjustment. If adjustment is incorrect, shut engine off, readjust, then restart the engine to recheck adjustment.

I. Keep hands, feet, floors, controls and walking surfaces clean and free of fluid, water, antifreeze or other liquids to minimize possibility of slips and falls.

1.6 HOT SURFACES, SHARP EDGES AND SHARP CORNERS

A. Avoid bodily contact with hot fluid, hot coolant, hot surfaces and sharp edges and corners.

B. Keep all parts of the body away from all points of air discharge and away from hot exhaust gases.

C. Wear personal protective equipment including gloves and head covering when working in, on or around the compressor.

D. Keep a first aid kit handy. Seek medical assistance promptly in case of injury. **DO NOT** ignore small cuts and burns as they may lead to infection.

1.7 TOXIC AND IRRITATING SUBSTANCES

A. DO NOT use air from this compressor for respiration (breathing) except in full compliance with OSHA Standards 29 CFR 1920 and any other Federal, State or Local codes or regulations.



DANGER

Death or serious injury may occur from inhaling compressed air without using proper safety equipment. See OSHA standards, and/or any Federal, State or Local codes or regulations on safety equipment.

B. DO NOT use air line anti-icer systems in air lines supplying respirators or other breathing air utilization equipment and **DO NOT** discharge air from these systems into unventilated or other confined areas.

C. Operate the compressor only in open or well-

ventilated areas.

D. If the compressor is operated indoors, discharge engine exhaust fumes outdoors.

E. Locate the compressor so that exhaust fumes are not apt to be carried towards personnel, air intakes servicing personnel areas or towards the air intake of any portable or stationary compressor.

F. Fuels, fluids, coolants, lubricants and battery electrolyte used in the compressor are typical of the industry. Care should be taken to avoid accidental ingestions and/or skin contact. In the event of ingestion seek medical treatment promptly. **DO NOT** induce vomiting if fuel is ingested. Wash with soap and water in the event of skin contact.

G. Wear an acid-resistant apron and a face shield or goggles when servicing the battery. If electrolyte is spilled on skin or clothing, immediately flush with large quantities of water.

H. Ethyl ether used in diesel engine ether starting aid systems is toxic, harmful or fatal if swallowed. Avoid contact with the skin or eyes and avoid breathing the fumes. If swallowed, **DO NOT** induce vomiting, but call a physician immediately.

I. Wear goggles or a full face shield when testing ether starting aid systems or when adding antifreeze compound to air line anti-icer systems. Keep openings of valve or atomizer tube of ether starting aid system pointed away from yourself and other personnel.

J. If ethyl ether or air line anti-icer system antifreeze compound enters the eyes or if fumes irritate the eyes, they should be washed with large quantities of clean water for 15 minutes. A physician, preferably any eye specialist, should be contacted immediately.

K. DO NOT store ether cylinders or air line anti-icer system antifreeze compound in operator's cabs or in other similar confined areas.

L. The antifreeze compound used in air line anti-icer systems contains methanol and is toxic, harmful or fatal if swallowed. Avoid contact with the skin or eyes and avoid breathing the fumes. If swallowed, induce vomiting by administering a tablespoon of salt in each glass of clean warm water until vomit is clear, then administer two tablespoons of baking soda in a glass of clean water. Have patient lay down and cover eyes to exclude light. Call a physician immediately.

1.8 ELECTRICAL SHOCK

A. Keep the towing vehicle or equipment carrier,

compressor hoses, tools and all personnel at least 10 feet (3 meters) from power lines and buried cables.

B. Keep all parts of the body and any hand-held tools or other conductive objects away from exposed live parts of electrical system. Maintain dry footing, stand on insulating surfaces and **DO NOT** contact any other portion of the compressor when making adjustments or repairs to exposed live parts of the electrical system.

C. Attempt repairs only in clean, dry and well-lighted and ventilated areas.

D. Stay clear of the compressor during electrical storms! It can attract lightning.

1.9 LIFTING

A. If the compressor is provided with a lifting bail, then lift by the bail provided. If no bail is provided, then lift by sling. Compressors to be air lifted by helicopter must not be supported by the lifting bail, but by slings instead. In any event, lift only in full compliance with OSHA Standards 29 CFR 1910 subpart N or any other Local, State, Military and Federal regulations that may apply.

B. Inspect lifting bail and points of attachment for cracked welds and for cracked, bent, corroded or otherwise degraded members and for loose bolts or nuts prior to lifting.

C. Make sure entire lifting, rigging and supporting structure has been inspected, is in good condition and has a rated capacity of at least the net weight of the compressor plus an additional 10% allowance for weight of snow, ice, mud or stored tools and equipment. If you are unsure of the weight, then weigh compressor before lifting.

D. Make sure lifting hook has a functional safety latch or equivalent, and is fully engaged and latched on the bail.

E. Use guide ropes or equivalent to prevent twisting or swinging of the compressor once it has been lifted clear of the ground.

F. DO NOT attempt to lift in high winds.

G. Keep all personnel out from under and away from the compressor whenever it is suspended.

H. Lift compressor no higher than necessary.

I. Keep lift operator in constant attendance whenever compressor is suspended.

J. Set compressor down only on a level surface capable of supporting at least its net weight plus an additional 10% allowance for the weight of snow, ice, mud or stored tools and equipment.

K. If the compressor is provided with parking brakes, make sure they are set, and in any event, block or chock both sides of all running wheels before disengaging the lifting hook.

1.10 ENTRAPMENT

A. Make sure all personnel are out compressor before closing and latching enclosure doors.

B. If the compressor is large enough to hold a man and if it is necessary to enter it to perform service adjustments, inform other personnel before doing so, or else secure the access door in the open position to avoid the possibility of others closing and possibly latching the door with personnel inside.

1.11 JUMP STARTING

A. Observe all safety precautions mentioned elsewhere in this manual.

B. Batteries may contain hydrogen gas which is flammable and explosive. Keep flames, sparks and other sources of ignition away.

C. Batteries contain acid which is corrosive and poisonous. **DO NOT** allow battery acid to contact eyes, skin, fabrics or painted surfaces as serious personal injury or property damage could result. Flush any contacted areas thoroughly with water immediately. Always wear an acid-resistant apron and face shield when attempting to jump start the compressor.

D. Remove all vent caps (if so equipped) from the battery or batteries in the compressor. **DO NOT** permit dirt or foreign matter to enter the open cells.

E. Check fluid level. If low, bring fluid to proper level before attempting to jump start (not applicable to maintenance-free batteries).

F. DO NOT attempt to jump start if fluid is frozen or slushy. Bring batteries up to at least 60°F (16°C) before attempting to jump start or it may explode.

G. Cover open cells of all compressor batteries with clean dampened cloths before attempting to jump start.

H. Attempt to jump start only with a vehicle having a negative ground electrical system with the same voltage, and is also equipped with a battery or batteries of comparable size or larger than supplied in the compressor. **DO NOT** attempt to jump start using motor generator sets, welders or other sources of DC power as serious damage may result.

I. Bring the starting vehicle alongside the compressor, but **DO NOT** permit metal to metal contact between the compressor and the starting vehicle.

Section 1

SAFETY

J. Set the parking brakes of both the compressor (if provided) and the starting vehicle or otherwise block both sides of all wheels.

K. Place the starting vehicle in neutral or park, turn off all non-essential accessory electrical loads and start its engine.

L. Use only jumper cables that are clean, in good condition and are heavy enough to handle the starting current.

M. Avoid accidental contact between jumper cable terminal clips or clamps and any metallic portion of either the compressor or the starting vehicle to minimize the possibility of uncontrolled arcing which might serve as a source of ignition.

N. Positive battery terminals are usually identified by a plus (+) sign on the terminal and the letters POS adjacent to the terminal. Negative battery terminals are usually identified by the letters NEG adjacent to the terminal or a negative (-) sign.

O. Connect one end of a jumper cable to the positive (POS) (+) battery terminal in the starting vehicle. When jump starting 24V compressors and if the starting vehicle is provided with two (2) 12V batteries connected in series, connect the jumper cable to the positive (POS) (+) terminal of the ungrounded battery.

P. Connect the other end of the same jumper cable to the positive (POS) (+) terminal of the starter motor battery in the compressor, or when jump starting 24V compressor, to the positive (POS) (+) terminal of the ungrounded battery in the compressor.

Q. Connect one end of the other jumper cable to the grounded negative (NEG) (-) terminal of the battery in the starting vehicle. When jump starting 24V

compressors and if the starting vehicle is provided with two (2) 12V batteries connected in series, connect the jumper cable to the negative (NEG) (-) terminal of the grounded battery.

R. Check your connections. **DO NOT** attempt to start a 24V compressor with one 12V battery in the starting vehicle. **DO NOT** apply 24V to one 12V battery in the compressor.

S. Connect the other end of this same jumper cable to a clean portion of the compressor engine block away from fuel lines, the crank case breather opening and the battery.

T. Start the compressor in accordance with normal procedure. Avoid prolonged cranking.

U. Allow the compressor to warm up. When the compressor is warm and operating smoothly at normal idle RPM, disconnect the jumper cable from the engine block in the compressor, then disconnect the other end of this same cable from the grounded negative (NEG) (-) terminal of the battery in the starting vehicle. Then disconnect the other jumper cable from the positive (POS) (+) terminal of the battery in the compressor, or if provided with two (2) 12V batteries connected in series, from the ungrounded battery in the compressor, and finally, disconnect the other end of this same jumper cable from the positive (POS) (+) terminal of the battery in the starting vehicle or from the positive (POS) (+) terminal of the ungrounded battery in the starting vehicle, if it is provided with two (2) 12V batteries connected in series.

V. Remove and carefully dispose of the dampened cloths, as they may now be contaminated with acid, then replace all vent caps.

Section 2 DESCRIPTION

2.1 INTRODUCTION

The Sullair 125, 130, 160H, 185 CFM and 49 HP Portable Air Compressors offer superior performance and reliability along with a minimal amount of maintenance requirements.

The compressor is equipped with a Sullair rotary screw compressor unit. Compared to other compressors, the Sullair is unique in mechanical reliability and compressor durability. No inspection is required of the working parts within the compressor unit.

As you continue reading this manual and come to learn how the compressor operates and is cared for, you will see how surprisingly easy it is to keep a Sullair compressor in top operating condition.

Read Section 5 (Maintenance) and learn how to keep your compressor in top operating condition. Should any problem or question arise which cannot be answered in this text, contact your nearest Sullair representative or the Sullair Corporation Service Department.

2.2 DESCRIPTION OF COMPONENTS

Refer to Figure 2-1. The components and assem-

blies of the Sullair Portable Air compressor are clearly shown. The package includes a **heavy duty rotary screw air compressor**, a **diesel engine**, **fuel tank**, **compressor inlet system**, **compressor cooling and lubrication system**, **compressor discharge system**, **capacity control system**, **instrument panel** and **electrical system**.

A low profile canopy offers improved handling and mobility. The clamshell canopy provides easy access to all serviceable components.

This model meets EPA regulations for 76dbA at 7 meters (23 feet).

The Sullair air compressors are capable of delivering capacities as follows:

Model 125 125 CFM @ 100 psig (6.9 bar)

Model 130 130 CFM @ 100 psig (6.9 bar)

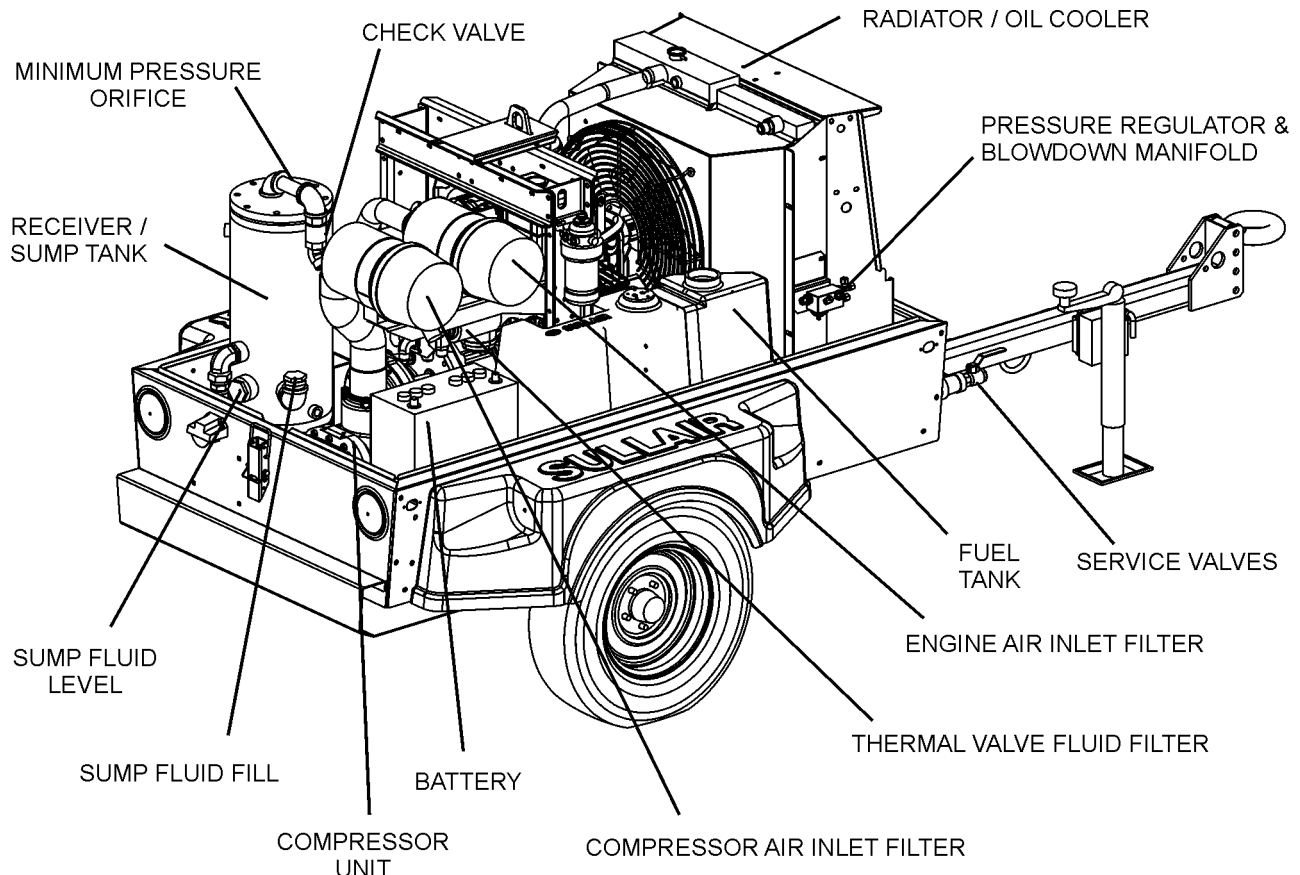
Model 49 HP 160 CFM @ 100 psig (6.9 bar)

Model 185 185 CFM @ 100 psig (6.9 bar)

Model 160H 160 CFM @ 150 psig (10.3 bar)

The control system can easily be adjusted for pres-

Figure 2-1 Sullair Rotary Screw Portable Air Compressor



Section 2

DESCRIPTION

sures from 85 to 125 psig (5.9 to 8.6 bar) for standard machines, and from 85 to 150 psig (5.9 to 10.3 bar) for “H” machines. The compressor unit is driven by an industrial diesel engine designed to provide enough horsepower for more than adequate reserve at rated conditions. Refer to the Engine Operator’s Manual for a more detailed description of the engine.

The **engine cooling system** is comprised of a **radiator, high capacity fan** and **thermostat**. The high capacity fan pushes air through the radiator, keeping the engine at the proper operating temperature.

The same fan also cools the fluid in the compressor cooling and lubrication system. The engine radiator and the compressor fluid cooler sit side by side which allows the fan air to push through both simultaneously. As air passes through the fluid cooler, the heat of compression is removed from the fluid.

The compressor is supplied with a large capacity fuel tank which will keep the compressor running through one (1) eight hour shift under normal operating conditions.

2.3 SULLAIR COMPRESSOR UNIT, FUNCTIONAL DESCRIPTION

Sullair compressors feature the **Sullair compressor unit, a single-stage, positive displacement, flood lubricated-type compressor**. This unit provides continuous (pulse-free) compression to meet your needs. With a Sullair compressor, no maintenance or inspection of the internal parts of the compressor unit is required.

Fluid is injected into the compressor unit where it mixes directly with the air as the rotors turn, compressing the air. The fluid flow has three main functions:

1. As coolant, it controls the rise of air temperature normally associated with the heat of compression.
2. Seals the leakage paths between the rotors and the stator and also between the rotors themselves.
3. Acts as a lubricating film between the rotors allowing one rotor to directly drive the other.

After the air/fluid mixture is discharged from the compressor unit, the fluid is separated from the air. At this time, the air flows to your service line and the fluid is cooled in preparation for reinjection.

2.4 COMPRESSOR COOLING AND LUBRICATION SYSTEM, FUNCTIONAL DESCRIPTION

Refer to Figure 2-2. The **compressor cooling and**

lubrication system is designed to provide adequate lubrication as well as maintain the proper operating temperature of the compressor. In addition to the **fluid cooler** and **interconnecting piping**, the system consists also of three other components: a **fluid filter, thermal valve**, and a **fan** which perform the following functions:

- The fluid filter filters the fluid.
- The thermal valve functions as a temperature regulator directing fluid either to the cooler or to the compressor unit, bypassing the cooler as will be explained later.
- The fan pushes air through the cooler removing the heat of compression from the fluid.

The functions of the lubrication system are explained in more detail below. Fluid is used in the system as a coolant and as a lubricant. It is housed in the receiver/sump which, will from this time forward, be referred to as the SUMP.

Upon start-up, fluid flows from the sump to the fluid thermal valve. Fluid circulation is achieved by forcing the fluid from the high pressure region of the sump to a lower pressure area in the compressor unit. A minimum pressure device (see Section 2.5 Compressor Discharge System) is provided to assure adequate fluid flow under all conditions.

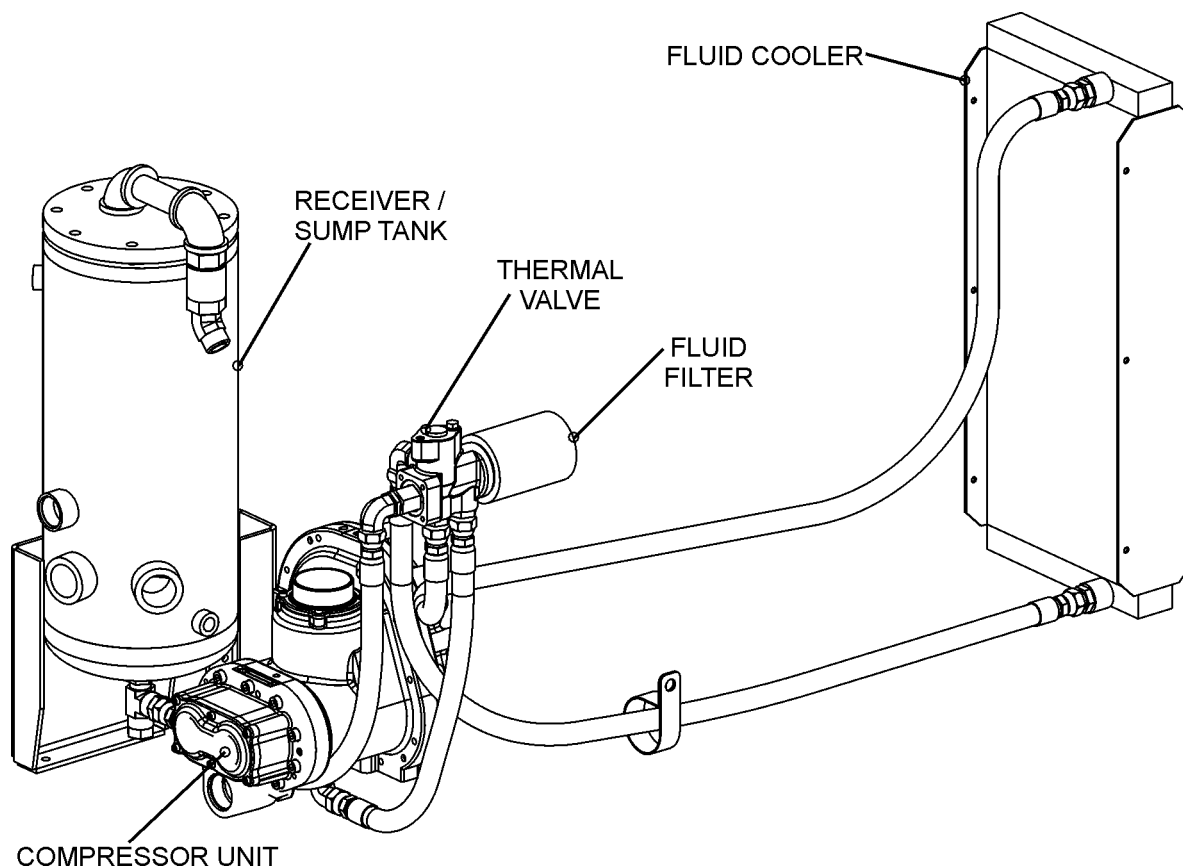
When entering the thermal valve upon start-up, the fluid temperature is cool and thus it is not necessary to route it through the cooler. Hence the fluid flows through the fluid filter and on to the compressor unit bypassing the cooler. As the compressor continues to operate, the temperature of the fluid rises and the thermostatic control opens, allowing a portion of the fluid to the cooler. When the temperature reaches 160°F (71°C), the thermostat is fully open allowing all fluid entering the thermal valve to be directed to the cooler.

The cooler is a radiator-type that works in conjunction with the engine fan. The fan pushes air through the cooler removing the heat of compression from the fluid. From the cooler, the fluid is then routed back through the fluid filter. All fluid flowing to the compressor unit passes through this filter. The fluid leaving the filter flows to the compressor unit where it lubricates, seals and cools the compression chamber as well as lubricates the bearings and gears.

2.5 COMPRESSOR DISCHARGE SYSTEM, FUNCTIONAL DESCRIPTION

Refer to Figures 2-3, 2-4A, 2-4B or 2-4C. The

Figure 2-2 Compressor Cooling and Lubrication System



Sullair compressor unit discharges compressed air/fluid mixture into the sump. The sump has three functions:

1. It acts as a primary fluid separator.
2. Serves as the compressor fluid sump.
3. Houses the air/fluid separator.

The compressed air/fluid mixture enters the sump and is directed against the side of the sump. By change of direction and reduction of velocity, large droplets of fluid separate and fall to the bottom of the sump. The fractional percentage of fluid remaining in the compressed air collects on the surface of the final separator element as the compressed air flows through the separator. As more and more fluid collects on the element surface, the fluid descends to the bottom of the separator. A return line (or scavenge tube) leads from the bottom of the separator element to the inlet region of the compressor unit. Fluid collecting on the bottom of the separator element is returned to the compressor by the pressure difference between the area surrounding the separator element and the compressor inlet. An orifice

(protected by a strainer) is included in this return line to assure proper flow.

The sump is ASME code rated at 200 psig (13.8 bar) working pressure. A minimum pressure device located downstream from the separator, assures a minimum receiver pressure of 85 psig (5.9 bar) during all conditions. This pressure is necessary for proper air/fluid separation and proper fluid circulation.

A pressure relief valve (located on the wet side of the separator) is set to open if the sump pressure exceeds 200 psig (13.8 bar). A temperature switch will shut down the compressor if the discharge temperature reaches the specified limit given in Section 3, Specifications.

Fluid is added to the sump via a capped fluid filler.

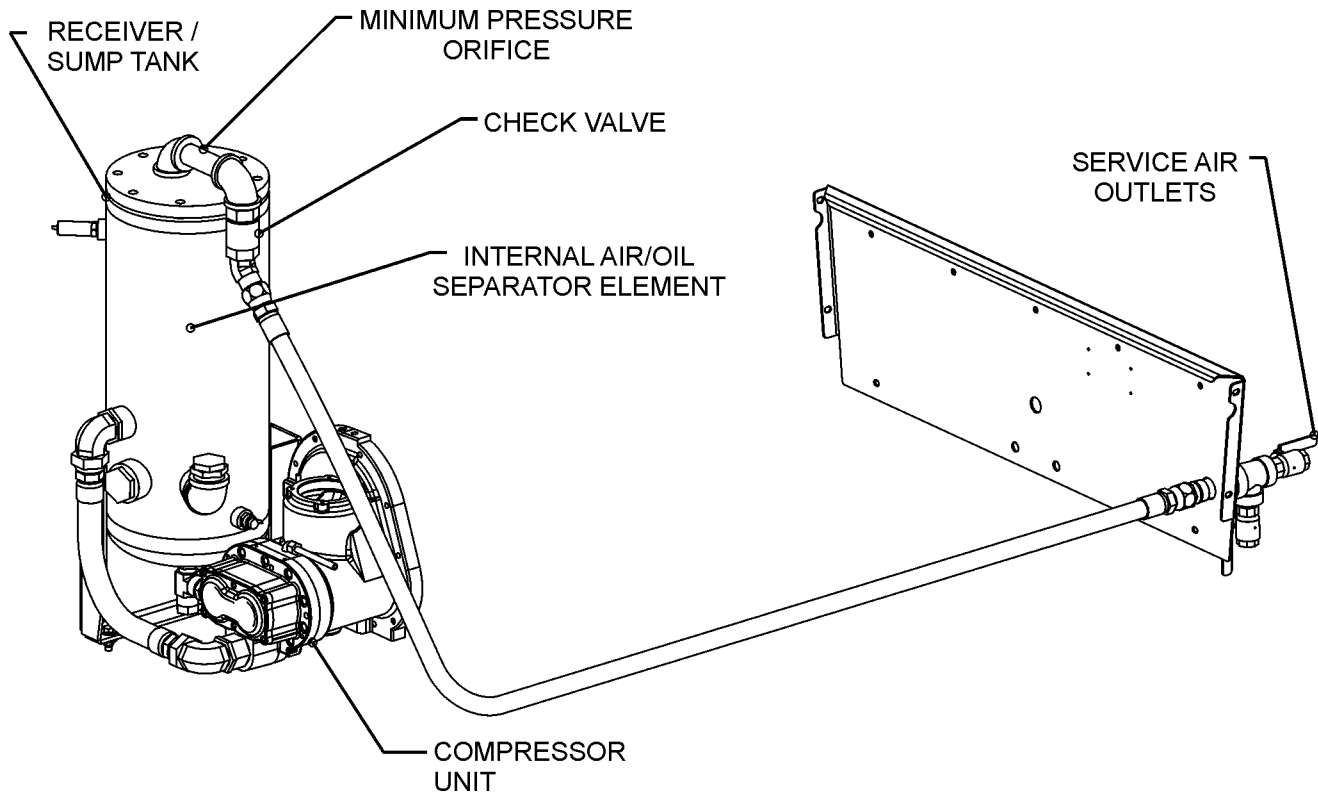


WARNING

DO NOT remove caps, plugs, and/or other components when compressor is running or pressurized.

Section 2 DESCRIPTION

Figure 2-3 Compressor Discharge System



Stop compressor and relieve all internal pressure before doing so.

2.6 CAPACITY CONTROL SYSTEM, FUNCTIONAL DESCRIPTION

Refer to Figures 2-3, 2-4A, 2-4B or 2-4C. The purpose of the control system is to regulate the amount of air intake in accordance with the amount of compressed air being used. The **control system** consists of a **pressure regulating valve(s)**, **air inlet valve**, **system blowdown valve**, and **tubing** connecting the various components to the compressor and engine governor. The functional descriptions of the control system are given in four distinct phases of operation. It applies to any control system with the exception of those with stated pressures which are dependent on pressure requirements. The pressures stated will be in accordance with a compressor having an operating pressure range of 100 to 110 psig (6.9 to 7.6 bar).

START - 0 TO 40 PSIG (0 to 2.8 BAR)

COLD WEATHER

To minimize problems in cold weather, starting aids, engine coolant heaters and dry-side receiver relief valves should be used. Refer to the engine opera-

tors manual for additional information.

COLD START

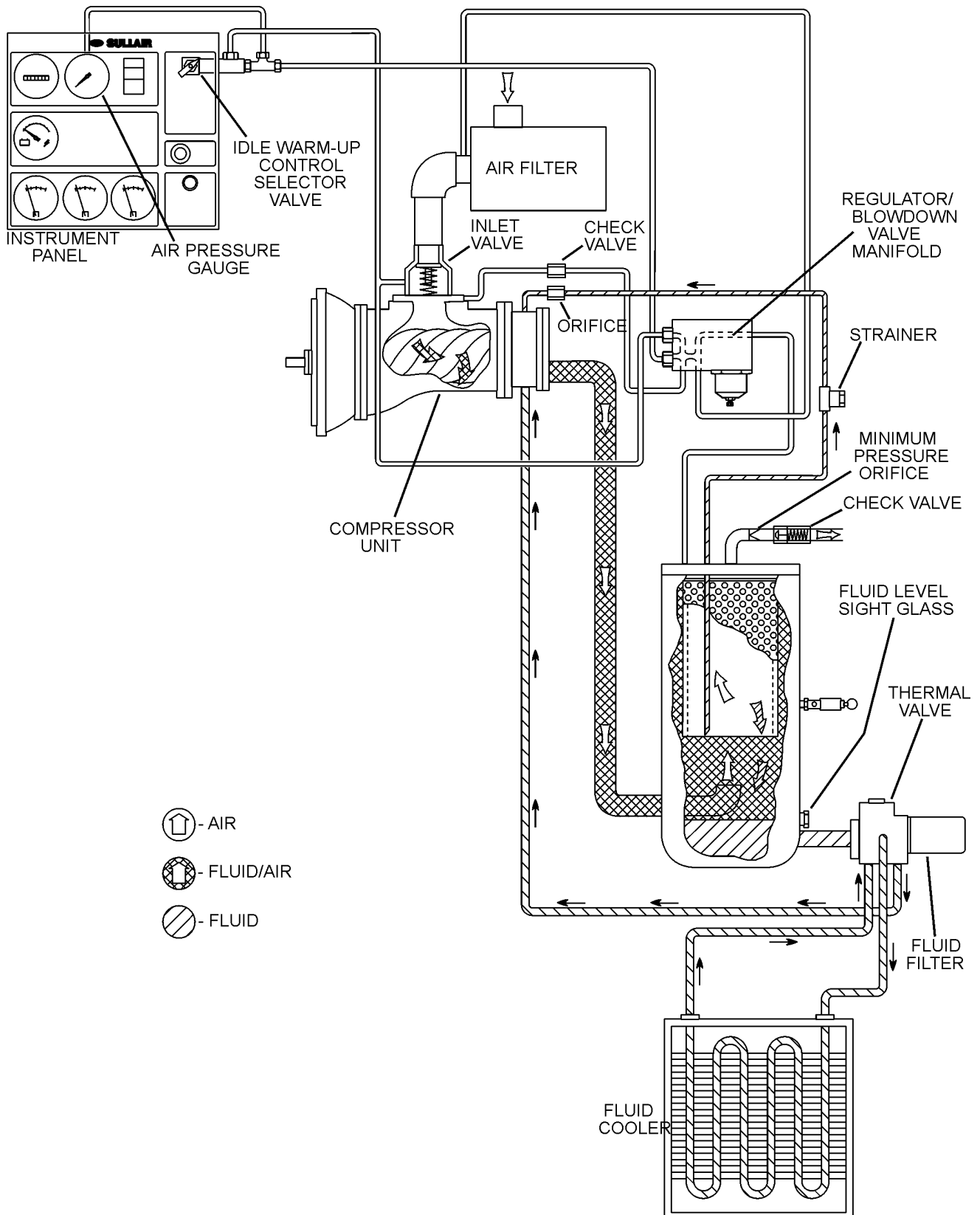
When the compressor is started, the sump pressure will quickly rise from 0 to 40 psig (0 to 2.8 bar). During this period the pressure regulator valve is inactive. At this pressure range the idle warm-up control maintains a closed inlet valve for engine idle operation. After engine start-up, turn the handle of the selector valve warm-up control (located on the instrument panel) from the "start" to the "run" position within the first 30 seconds of operation. The instrument panel annunciator light will go off after 30 seconds. The inlet valve is fully open due to inlet air pressure, and the compressor operates at full capacity operation. As the compressor operates at full capacity, the engine runs at full speed.

NORMAL OPERATION - 85 TO 100 PSIG (5.9 TO 6.9 BAR) OR 85 TO 150 PSIG (5.9 TO 10.3 BAR) FOR "H" MACHINES

When the warm-up control selector valve handle is moved to the "run" position, the sump pressure rises above 85 psig (5.9 bar). At this time, the inlet valve remains fully open for maximum air output. The engine will continue to run at full speed during this phase of operation.

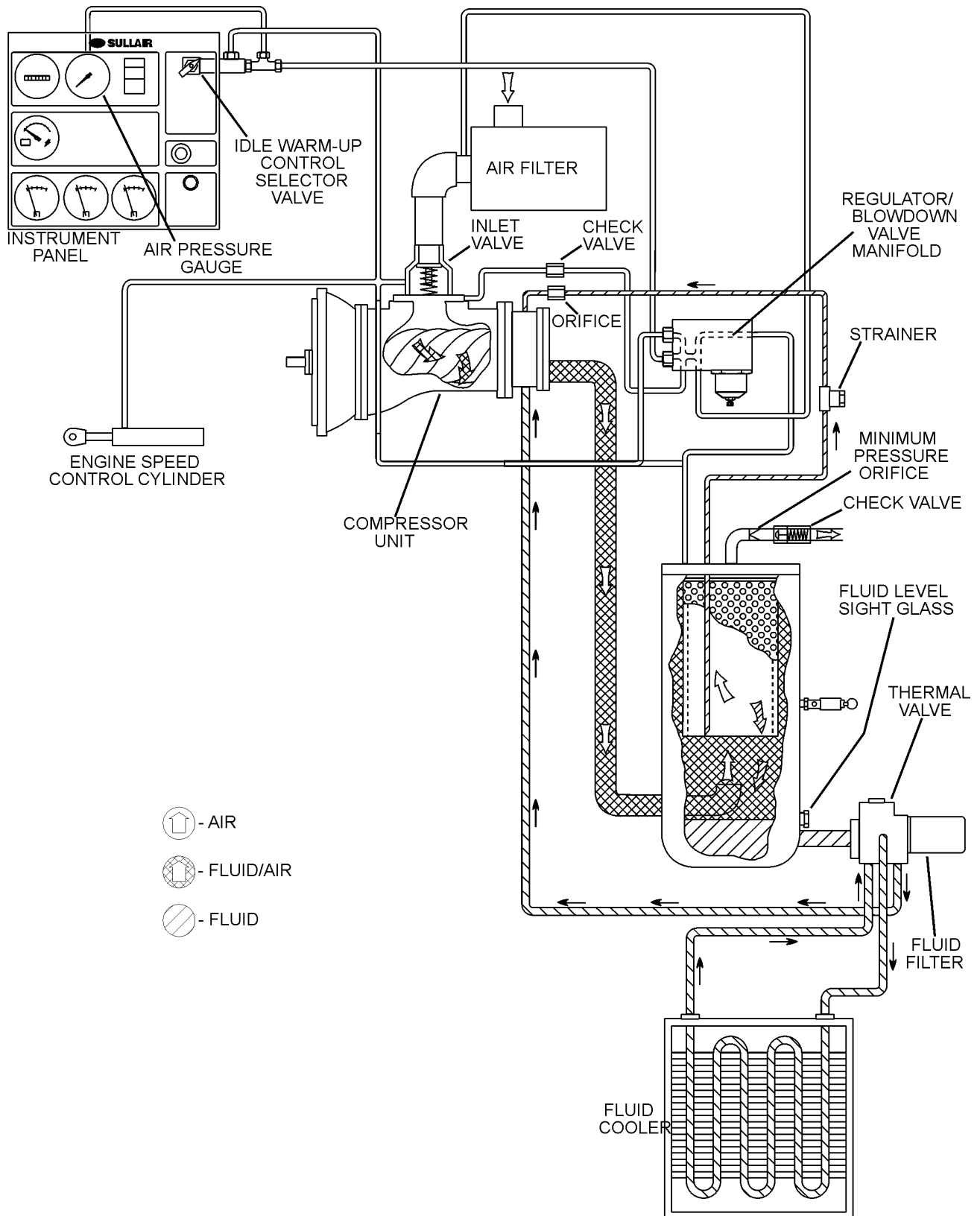
Section 2 DESCRIPTION

Figure 2-4A Control System with Piping and Instrumentation - 125 and 130 Models (Caterpillar and Perkins)



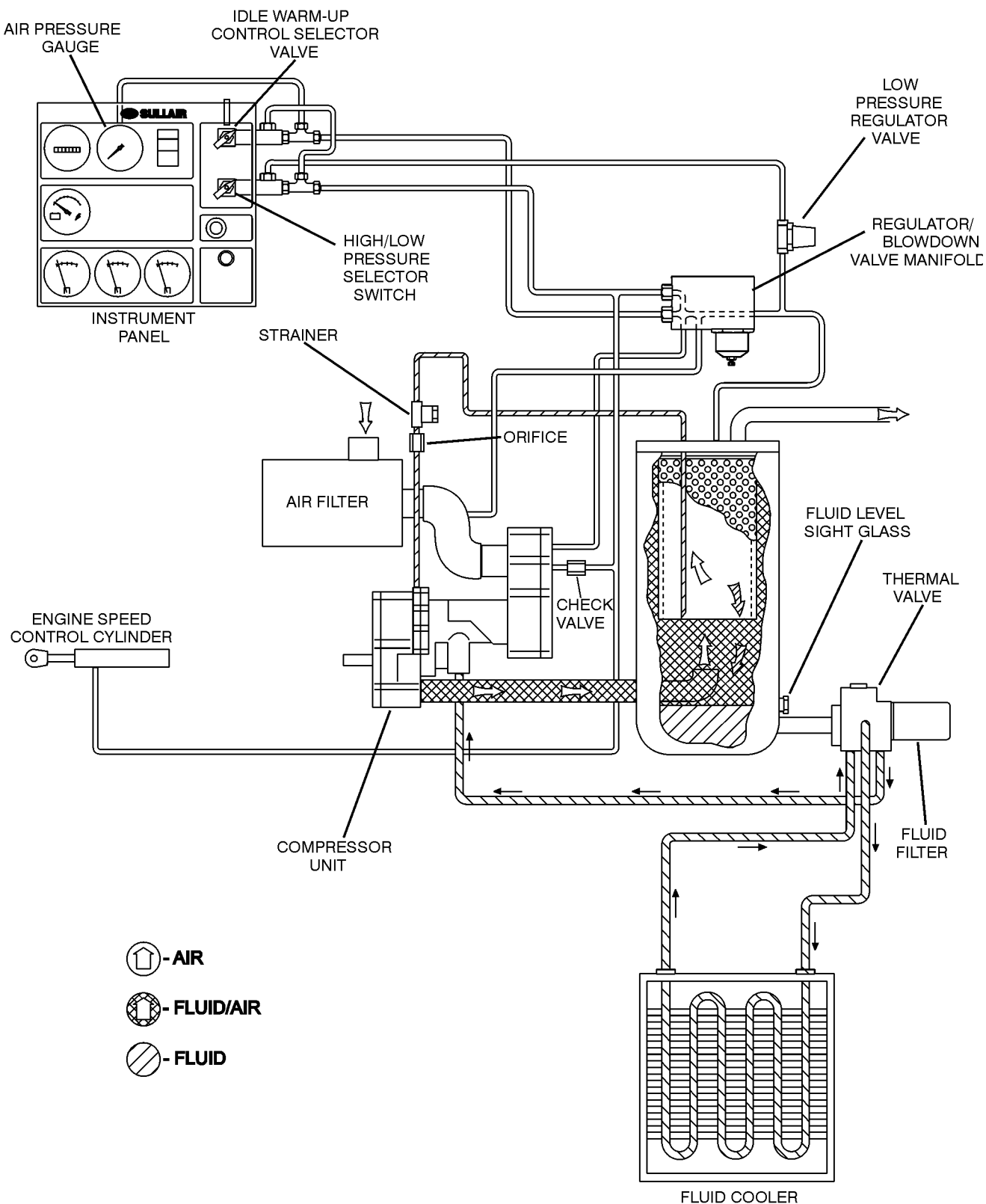
Section 2 DESCRIPTION

Figure 2-4B Control System with Piping and Instrumentation - 125, 130, 49HP and 185 Models (Caterpillar and Perkins)



Section 2 DESCRIPTION

Figure 2-4C Control System with Piping and Instrumentation - 160H Models (John Deere)



Section 2 DESCRIPTION

MODULATION - 100 TO 110 PSIG (6.9 TO 7.6 BAR) OR 150 TO 165 PSIG (10.3 TO 11.4 BAR) FOR "H" MACHINES

Should less than the rated capacity of air be used, the service line pressure will rise above 100 psig (6.9 bar) low or single pressure rating, 150 psig (10.3 bar) dual or high pressure rating. The pressure regulating valve gradually opens, applying pressure to the inlet valve piston and speed control cylinder. This causes the inlet valve to partially close and reduces the speed of the engine. As the pressure increases, the inlet valve piston will further close the inlet valve and continue reducing the speed until it reaches a pre-set idle speed. Now as air demand increases, the sump pressure will fall below the 110 psig (7.6 bar) or 165 psig (11.4 bar) for "H" machines.

The pressure regulating valve will close, the air inlet valve will fully open and the engine will once again run at a pre-set full load speed.

Between the pressure regulating valve and inlet valve, a small orifice is installed which vents a small amount of air to the atmosphere, when the pressure regulating valve is open. This allows variance of air

output to match air demand. The orifice also bleeds any accumulated moisture from the regulator.

SHUTDOWN

The blowdown valve is normally closed. Upon shutdown, the back pressure in the compressor inlet signals the blowdown valve to vent the sump pressure to the atmosphere.

2.7 AIR INLET SYSTEM, FUNCTIONAL DESCRIPTION

Refer to Figure 2-5A or 2-5B. The **air inlet system** consists of **two air filters**, a **compressor air inlet valve** and **interconnecting piping** to the engine and compressor.

The air filters are two-stage dry element-type filters. These filters are capable of cleaning extremely dirty air. However, in such cases, frequent checks of the air filter will be required.

See Section 5 for Air Filter Maintenance Procedures.

2.8 INSTRUMENT PANEL GROUP, FUNCTIONAL DESCRIPTION

Refer to Figure 2-6. The **instrument panel group** consists of a **molded panel** containing an **air pres-**

Figure 2-5A Air Inlet System - Caterpillar and Perkins Models

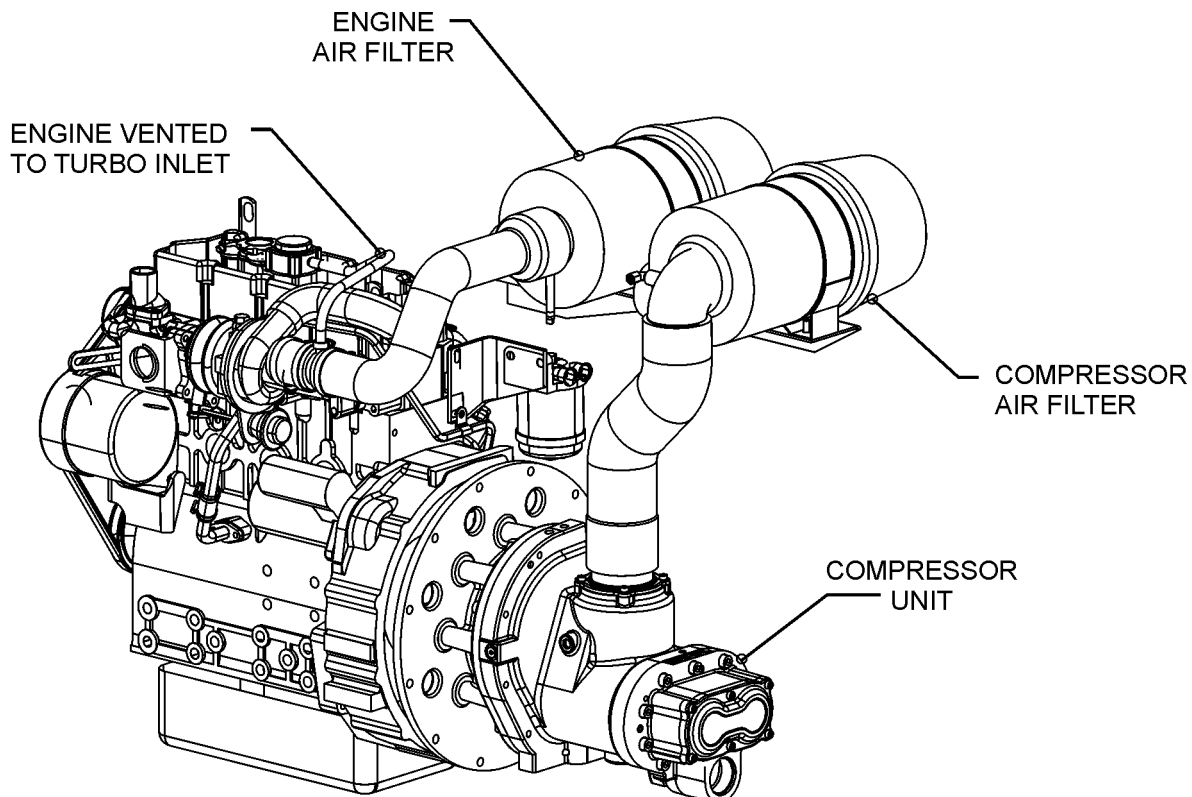
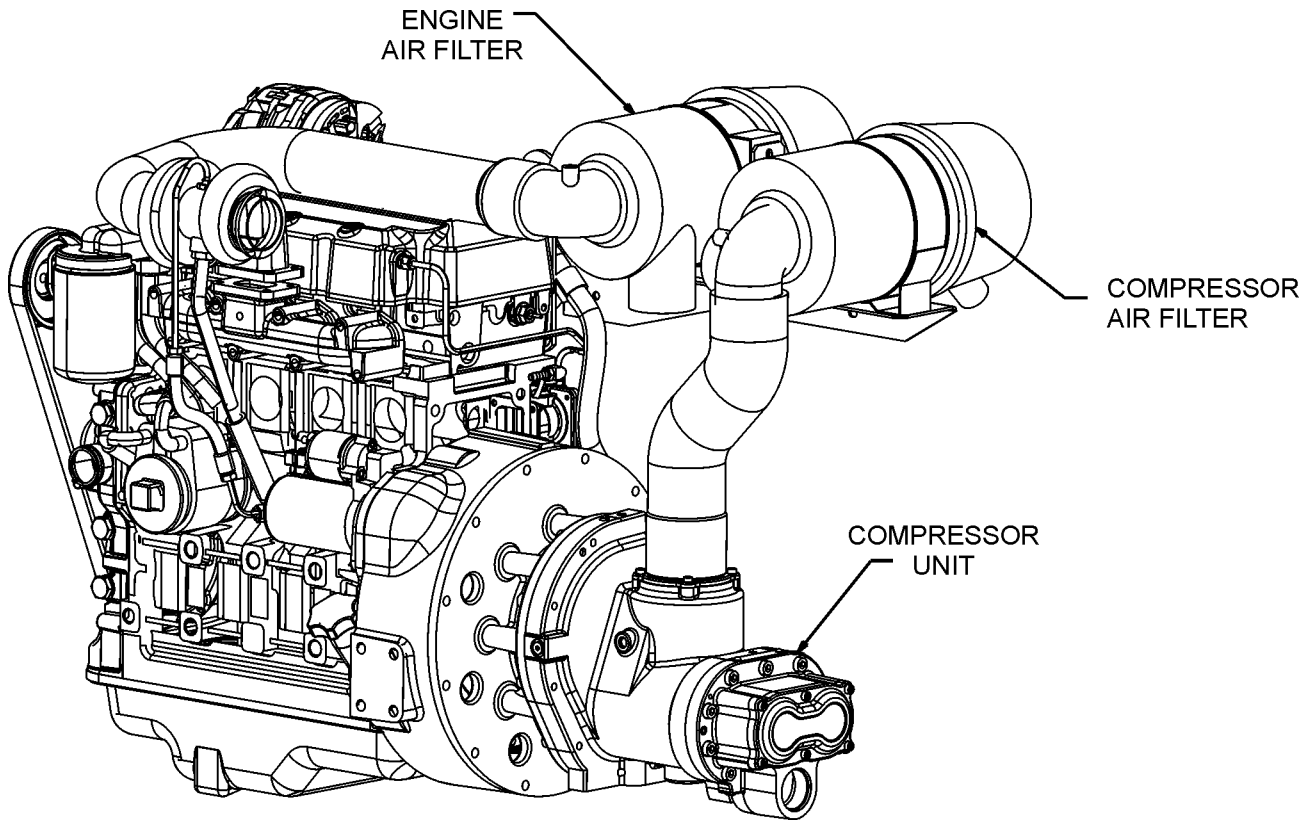


Figure 2-5B Air Inlet System - John Deere Models

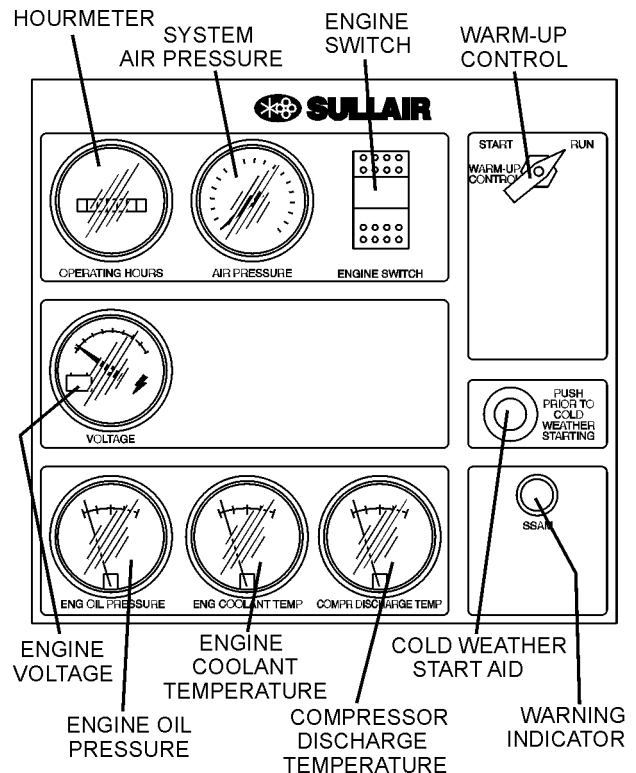


sure gauge, hourmeter, ignition/start switch, annunciator light, idle warm-up control, and a cold weather starting aid button.

Refer to Figure 2-6 for locations of the following indicators and controls:

- The **air pressure gauge** continually monitors the sump pressure at various load or unload conditions.
- The **hourmeter** indicates the accumulative hours of compressor operation. This is useful for planning and logging service operations.
- The **engine switch** is used to energize the electrical system and start the compressor. The starter switch is pressed to the on position to energize the electrical system and momentarily pressed to the start position to engage the starter and start the compressor.
- The **idle warm-up valve control** is turned from start to run after engine start is achieved for full compressor operation.
- The **pressure selector switch** (160H Models) allows the selection of the compressor operating pressure range, 85 to 110

Figure 2-6 Instrument Panel Group



Section 2

DESCRIPTION

psig (5.9 to 7.6 bar) or 85 to 160 psig (5.9 to 11.0 bar).

- The **cold weather starting aid** should be used when starting in cold ambients. Press the button and hold for 5-10 seconds prior to starting (depending upon temperature).
- The **annunciator light** indicates compressor safety shutdown status.

2.9 ELECTRICAL SYSTEM, FUNCTIONAL DESCRIPTION

Refer to Figure 2-7. The electrical system is comprised of not only the necessary equipment required to operate the compressor, but also a system which shuts down the compressor in the event of a malfunction. The components of the **electrical system** are an **engine starter**, a **battery**, an **alternator with a built-in voltage regulator**, a **fuel solenoid**, a **compressor discharge temperature switch**, which will shut down the compressor should the compressor temperature exceed 250°F (121°C), an **engine water temperature switch** set to shut down the compressor when water temperature reaches 225°F (107°C) and an **engine oil pressure switch**. The engine oil pressure switch is provided to shut down the compressor when the engine oil pressure becomes insufficient. The low speed switch is provided to shutdown the compressor if engine speed falls below 1500 RPM.

2.10 SHUTDOWN SYSTEM DESCRIPTION

The Shutdown System and Annunciation Module (SSAM) continually monitors the status of the compressor. In the event of a shutdown condition, the SSAM will shutdown the compressor and flash the appropriate code on the instrument panel annunciator light. The flash code will remain active (flashing) until the ignition switch is turned OFF. The flash codes are as follows:

1 flash : high compressor temperature

2 flashes: high engine coolant temperature

3 flashes: low engine oil pressure

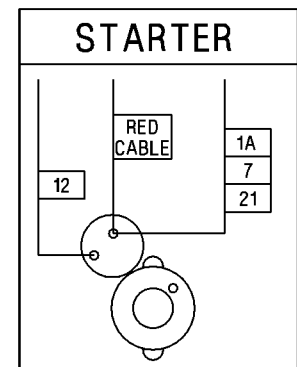
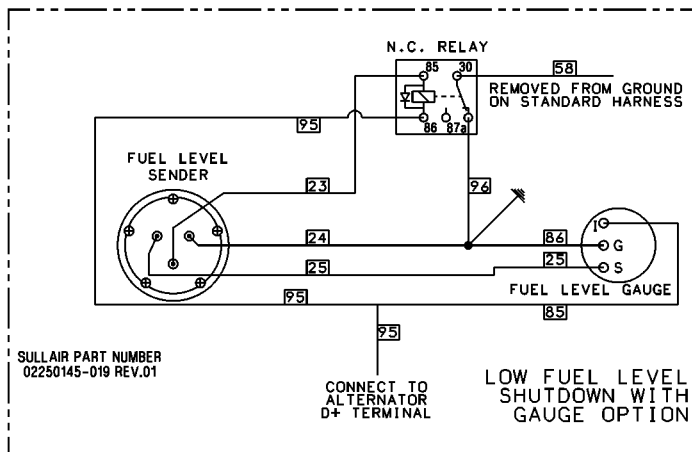
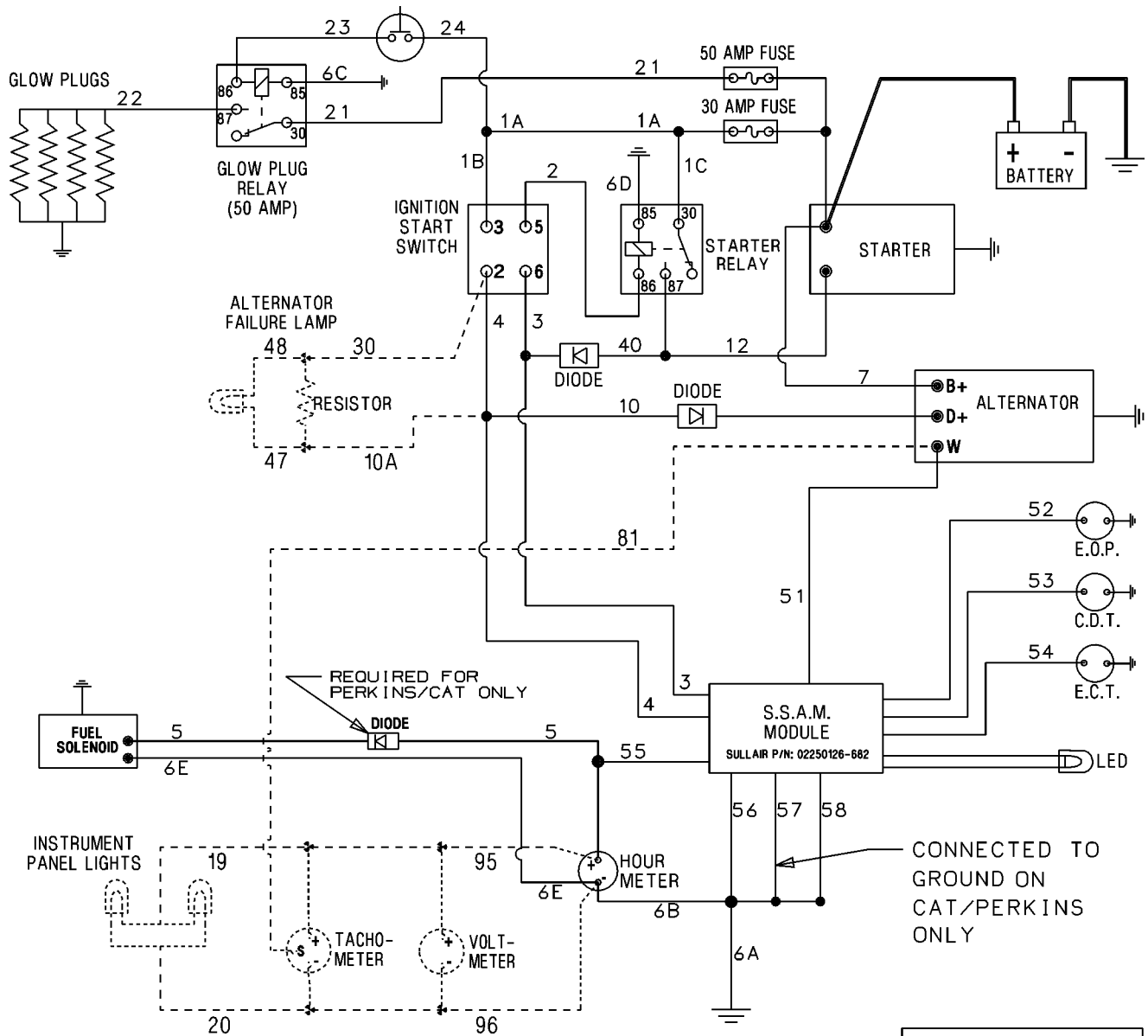
4 flashes: low engine speed

5 flashes: low fuel level (optional)

The SSAM also provides startup logic for the compressor. When the ignition switch is placed in the ON position, the annunciator light will come on for 30 seconds. During this 30 second period, ignition switch activation to the START position will engage the engine starter. The low engine oil pressure switch and the low engine speed switch will remain inactive during this 30 second period. At the end of the 30 second period, the annunciator light will go off and the engine START cycle will be disabled. At this time, all safety system checks become active including low fuel level (if equipped).

Section 2 DESCRIPTION

Figure 2-7 Electrical System - All Models



REFERENCE SULLAIR
DECAL 02250144-447

NOTES

Section 3 SPECIFICATIONS

3.1A SPECIFICATIONS - PERKINS AND CATERPILLAR								
Model Series	Length (I)		Width		Height		Weight (wet)	
	in	mm	in	mm	in	mm	lb	kg
125, 130, 185 2-wheel	130.8	3322	59.2	1504	53.8	1368	2130	966
125, 130, 185 LRG	69.1	1765	40.9	1040	41.7	1060	1885	855
(I) Length over drawbar.								
COMPRESSOR :	125		130		185			
Type :	Rotary Screw		Rotary Screw		Rotary Screw			
Maximum Operating Pressure :	125 psig (8.6 bar)		125 psig (8.6 bar)		125 psig (8.6 bar)			
Delivery :	125 Free CFM (59 l/s)		130 Free CFM (61 l/s)		185 Free CFM (87 l/s)			
Fluid :	Compressor Fluid		Compressor Fluid		Compressor Fluid			
Lubricating Compressor :	See Lubrication Guide		See Lubrication Guide		See Lubrication Guide			
Sump Capacity :	3 U.S. Gallons / 11 liters		3 U.S. Gallons / 11 liters		3 U.S. Gallons / 11 liters			
Track Width :	50.9 in. (1294 mm)		50.9 in. (1294 mm)		50.9 in. (1294 mm)			
Tire Size (Load Range) :	ST175/80D13		ST175/80D13		ST175/80D13			
Tire Pressure :	50 psig (3.5 bar)		50 psig (3.5 bar)		50 psig (3.5 bar)			
Lug Nut Torque :	60 ft.-lbs. (81 Nm)		60 ft.-lbs. (81 Nm)		60 ft.-lbs. (81 Nm)			
Wheel Size :	13 x 4.5		13 x 4.5		13 x 4.5			
Operating Tilt (maximum) :	15 Degrees		15 Degrees		15 Degrees			
Electrical System :	12 Volt		12 Volt		12 Volt			
Compressor Discharge :	Shutdown 250 °F (121 °C)		Shutdown 250 °F (121 °C)		Shutdown 250 °F (121 °C)			
Service Valves :	(2) 3/4”		(2) 3/4”		(2) 3/4”			
Maximum Towing Speed :	55 mph (88 kmph)		55 mph (88 kmph)		55 mph (88 kmph)			
Axle Rating :	3500 lbs. (1588 kg)		3500 lbs. (1588 kg)		3500 lbs. (1588 kg)			
Rated Pressure :	100 psig (7 bar)		100 psig (7 bar)		100 psig (7 bar)			
Sound Level :	76 dBA @ 7 meters		76 dBA @ 7 meters		76 dBA @ 7 meters			
ENGINE								
Type :	Diesel		Diesel		Diesel			
Make :	Perkins & Caterpillar		Perkins & Caterpillar		Perkins & Caterpillar			
Model :	404C-22T & 3024CT		404C-22T & 3024CT		404C-22T & 3024CT			
Displacement :	134 cu. in. (2.2L)		134 cu. in. (2.2L)		134 cu. in. (2.2L)			
Cylinders :	4		4		4			
Bore x Stroke :	3.30 x 3.94 in. (84 mm x 100 mm)		3.30 x 3.94 in. (84 mm x 100 mm)		3.30 x 3.94 in. (84 mm x 100 mm)			
Rated Speed :	2550 RPM		2650 RPM		2800 RPM			
Rated Power :	59 HP (44.0 kW)		60 HP (44.7 kW)		60 HP (44.7 kW)			
Type of Motor Oil :	See Engine Operator's Manual		See Engine Operator's Manual		See Engine Operator's Manual			
Fuel Tank Capacity :	20 Gallons (76 liters)		20 Gallons (76 liters)		20 Gallons (76 liters)			
Radiator Capacity :	2.5 U.S. Gallons (9.5 liters)		2.5 U.S. Gallons (9.5 liters)		2.5 U.S. Gallons (9.5 liters)			
Engine Water Temperature:	Shutdown 225 °F (107 °C)		Shutdown 225 °F (107 °C)		Shutdown 225 °F (107 °C)			
Minimum Idle Speed :	2550 RPM (II)		2650 RPM (II)		2200 RPM (II)			
Alternator Rating :	65 amp		65 amp		65 amp			
(II) DO NOT allow engine idle rpm to drop below minimum idle speed. Compressor and/or coupling damage will occur. The compressor is equipped with a Low Speed Shutdown System that will shutdown the compressor if engine speed falls below 1500 rpm.								

Section 3

SPECIFICATIONS

3.1B SPECIFICATIONS - JOHN DEERE 125, 130 (2-WHEEL AND LRG)								
Model Series	Length (I)		Width		Height		Weight (wet)	
	in	mm	in	mm	in	mm	lb	kg
125, 130 2-wheel	130.8	3322	59.2	1504	53.8	1368	2255	1023
125, 130 LRG	69.1	1765	40.9	1040	41.7	1060	2115	960
(I) Length over drawbar.								
COMPRESSOR :		125			130			
Type :	Rotary Screw			Rotary Screw				
Maximum Operating Pressure :	125 psig (8.6 bar)			125 psig (8.6 bar)				
Delivery :	125 Free CFM (59 l/s)			130 Free CFM (61 l/s)				
Fluid :	Compressor Fluid			Compressor Fluid				
Lubricating Compressor :	See Lubrication Guide			See Lubrication Guide				
Sump Capacity :	3 U.S. Gallons / 11 liters			3 U.S. Gallons / 11 liters				
Track Width :	50.9 in. (1294 mm)			50.9 in. (1294 mm)				
Tire Size (Load Range) :	ST175/80D13			ST175/80D13				
Tire Pressure :	50 psig (3.5 bar)			50 psig (3.5 bar)				
Lug Nut Torque :	60 ft.-lbs. (81 Nm)			60 ft.-lbs. (81 Nm)				
Wheel Size :	13 x 4.5			13 x 4.5				
Operating Tilt (maximum) :	15 Degrees			15 Degrees				
Electrical System :	12 Volt			12 Volt				
Compressor Discharge :	Shutdown 250 °F (121 °C)			Shutdown 250 °F (121 °C)				
Service Valves :	(2) 3/4"			(2) 3/4"				
Maximum Towing Speed :	55 mph (88 kmph)			55 mph (88 kmph)				
Axle Rating :	3500 lbs. (1588 kg)			3500 lbs. (1588 kg)				
Rated Pressure :	100 psig (7 bar)			100 psig (7 bar)				
Sound Level :	76 dBA @ 7 meters			76 dBA @ 7 meters				
ENGINE								
Type :	Diesel			Diesel				
Make :	John Deere			John Deere				
Model :	4024T			4024T				
Displacement :	149 cu. in. (2.44L)			149 cu. in. (2.44L)				
Cylinders :	4			4				
Bore x Stroke :	3.39 x 4.13 in. (86 mm x 105 mm)			3.39 x 4.13 in. (86 mm x 105 mm)				
Rated Speed :	2550 RPM			2650 RPM				
Rated Power :	60 HP (44.7 kW)			60 HP (44.7 kW)				
Type of Motor Oil :	See Engine Operator's Manual			See Engine Operator's Manual				
Fuel Tank Capacity :	20 Gallons (76 liters)			20 Gallons (76 liters)				
Radiator Capacity :	2.5 U.S. Gallons (9.5 liters)			2.5 U.S. Gallons (9.5 liters)				
Engine Water Temperature:	Shutdown 225 °F (107 °C)			Shutdown 225 °F (107 °C)				
Minimum Idle Speed :	2000 RPM (II)			2000 RPM (II)				
Alternator Rating :	65 amp			65 amp				
(II) DO NOT allow engine idle rpm to drop below minimum idle speed. Compressor and/or coupling damage will occur. The compressor is equipped with a Low Speed Shutdown System that will shutdown the compressor if engine speed falls below 1500 rpm.								

Section 3 SPECIFICATIONS

3.1C SPECIFICATIONS - JOHN DEERE 49HP, 160H, 185 (2-WHEEL AND LRG)								
Model Series	Length (I)		Width		Height		Weight (wet)	
	in	mm	in	mm	in	mm	lb	kg
49 HP, 160H, 185 2-wheel	130.8	3322	59.2	1504	53.8	1368	2255	1023
49 HP, 160H, 185 LRG	69.1	1765	40.9	1040	41.7	1060	2115	960
(I) Length over drawbar.								

COMPRESSOR :	49 HP	185	160H
Type :	Rotary Screw	Rotary Screw	Rotary Screw
Maximum Operating Pressure :	125 psig (8.6 bar)	125 psig (8.6 bar)	150 psig (10.3 bar)
Delivery :	160 Free CFM (75 l/s)	1850 Free CFM (87 l/s)	160 Free CFM (75 l/s)
Fluid :	Compressor Fluid	Compressor Fluid	Compressor Fluid
Lubricating Compressor :	See Lubrication Guide	See Lubrication Guide	See Lubrication Guide
Sump Capacity :	3 U.S. Gallons / 11 liters	3 U.S. Gallons / 11 liters	3 U.S. Gallons / 11 liters
Track Width :	50.9 in. (1294 mm)	50.9 in. (1294 mm)	50.9 in. (1294 mm)
Tire Size (Load Range) :	ST175/80D13	ST175/80D13	ST175/80D13
Tire Pressure :	50 psig (3.5 bar)	50 psig (3.5 bar)	50 psig (3.5 bar)
Lug Nut Torque :	60 ft.-lbs. (81 Nm)	60 ft.-lbs. (81 Nm)	60 ft.-lbs. (81 Nm)
Wheel Size :	13 x 4.5	13 x 4.5	13 x 4.5
Operating Tilt (maximum) :	15 Degrees	15 Degrees	15 Degrees
Electrical System :	12 Volt	12 Volt	12 Volt
Compressor Discharge :	Shutdown 250 °F (121 °C)	Shutdown 250 °F (121 °C)	Shutdown 250 °F (121 °C)
Service Valves :	(2) 3/4"	(2) 3/4"	(2) 3/4"
Maximum Towing Speed :	55 mph (88 kmph)	55 mph (88 kmph)	55 mph (88 kmph)
Axle Rating :	3500 lbs. (1588 kg)	3500 lbs. (1588 kg)	3500 lbs. (1588 kg)
Rated Pressure :	100 psig (7 bar)	100 psig (7 bar)	100 psig (7 bar)
Sound Level :	76 dBA @ 7 meters	76 dBA @ 7 meters	76 dBA @ 7 meters

ENGINE			
Type :	Diesel	Diesel	Diesel
Make :	John Deere	John Deere	John Deere
Model :	4024T	4024T	4024T
Displacement :	149 cu. in. (2.44L)	149 cu. in. (2.44L)	149 cu. in. (2.44L)
Cylinders :	4	4	4
Bore x Stroke :	3.39 x 4.13 in. (86 mm x 105 mm)	3.39 x 4.13 in. (86 mm x 105 mm)	3.39 x 4.13 in. (86 mm x 105 mm)
Rated Speed :	2650 RPM	2800 RPM	2800 RPM
Rated Power :	49 HP (36.5 kW)	60 HP (44.7 kW)	66 HP (49.2 kW)
Type of Motor Oil :	See Engine Operator's Manual	See Engine Operator's Manual	See Engine Operator's Manual
Fuel Tank Capacity :	20 Gallons (76 liters)	20 Gallons (76 liters)	20 Gallons (76 liters)
Radiator Capacity :	2.5 U.S. Gallons (9.5 liters)	2.5 U.S. Gallons (9.5 liters)	2.5 U.S. Gallons (9.5 liters)
Engine Water Temperature:	Shutdown 225 °F (107 °C)	Shutdown 225 °F (107 °C)	Shutdown 225 °F (107 °C)
Minimum Idle Speed :	2000 RPM (II)	2000 RPM (II)	2000 RPM (II)
Alternator Rating :	65 amp	65 amp	65 amp

(II) DO NOT allow engine idle rpm to drop below minimum idle speed. Compressor and/or coupling damage will occur. The compressor is equipped with a Low Speed Shutdown System that will shutdown the compressor if engine speed falls below 1500 rpm.

Section 3 SPECIFICATIONS

3.2 LUBRICATION GUIDE - COMPRESSOR

FLUID TYPE	CHANGE PERIOD (HOURS)	AMBIENT TEMPERATURE RANGE °F (°C)
Sullair AWF (I)	1500	-20 to 125 (-29 to 52)
D-A Torque Fluid	300	10 to 110 (-12 to 43)
SAE10W SE, SF, SG, CD	300	0 to 100 (-18 to 38)
MIL-L-2104E 10W	300	0 to 100 (-18 to 38)

(I) Sullair part numbers for Sullair AWF are 250030-757 (5 gallons /18.9 liters), and 250030-758 (55 gallons /208 liters).

3.3 APPLICATION GUIDE

Refer to Figure 3-1. Sullair Air Compressors are supplied with Sullair AWF which is heavy duty multi-viscosity, all-weather fluid. Sullair AWF also allows an extended change interval. Detergent motor oils (SAE 10W Class SE,SF, SG or CD) can also be used. Any of these oils are suitable under conditions where severe oil oxidations can occur.

Water must be drained from the receiver periodically. In high ambient temperature and high humidity conditions, condensed moisture may emulsify with the oil forming a “milky” color. SAE 10W is especially prone to this condition. The fluid should be changed if this condition develops.

DO NOT mix types of fluids. Combinations of different fluids may lead to operational problems such as foaming, filter plugging, orifice or line plugging.

When ambient conditions exceed those noted or if conditions warrant use of other extended life lubricants, contact Sullair for recommendations.

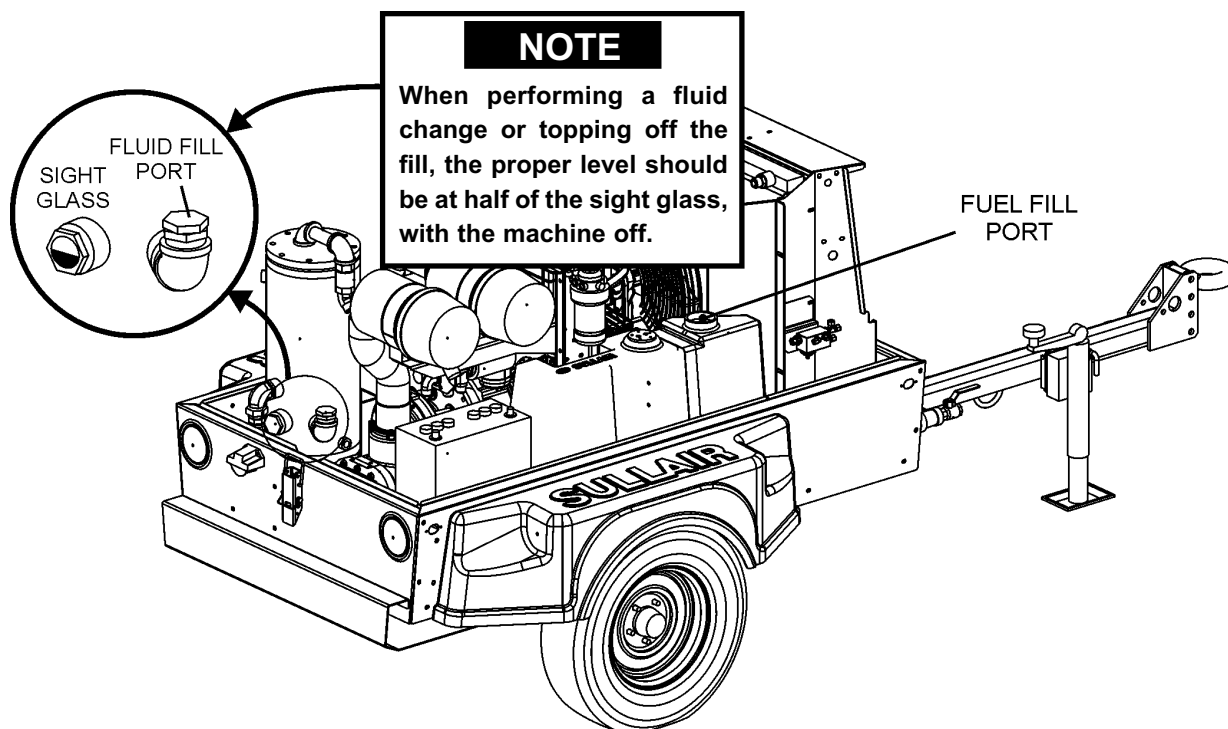
Sullair encourages the user to participate in a fluid analysis program. This could result in a fluid change interval differing from that stated in the manual. Sullair Corporation offers a fluid analysis program for Sullair AWF. Contact your local Sullair representative for details.

D-A Lubricant® Company Inc. offers an analysis program for users of D-A products and Sullair AWF. Contact your D-A lubricant supplier or Sullair representative for details.

3.4 LUBRICATION GUIDE - ENGINE

For engine oil specifications, refer to the Engine Operator's Manual.

Figure 3-1 Fluid and Fuel Fill Port Locations



Section 4 OPERATION

4.1 GENERAL

While Sullair has built into this compressor a comprehensive array of controls and indicators to assure you that it is operating properly, you will want to recognize and interpret the reading which

will call for service or indicate the beginning of a malfunction. Before starting your Sullair compressor, read this section thoroughly and familiarize yourself with the controls and indicators - their purpose, location and use.

4.2 PURPOSE OF CONTROLS	
CONTROL OR INDICATOR	PURPOSE
ENGINE SWITCH	Press this switch to the "ON" (ignition) position to energize the electrical system of the compressor. Press the switch to the "START" position to momentarily engage the starter and start the compressor. Press the switch to the "OFF" position to shut the compressor down. This switch is located on the instrument panel.
COLD WEATHER STARTING AID BUTTON	Push this button, prior to compressor start-up, to allow the engine to warm-up for easy starting.
AIR PRESSURE GAUGE	Continually monitors the pressure inside the receiver sump at various load and unload conditions.
HOURLMETER	Indicates the accumulated hours of operation. Useful for planning and logging service schedules.
FLUID LEVEL SIGHT GLASS	Monitors the fluid level in the sump. Proper level is visible halfway up the sight glass. Check the level when the compressor is shut down and on level ground.
COMPRESSOR DISCHARGE TEMPERATURE SWITCH	Opens the electrical circuit to shut down the compressor when the discharge temperature reaches a specific value (see Section 3, Specifications).
THERMAL VALVE	Functions as a temperature regulator directing the compressor fluid either to the cooler or to the compressor unit.
MINIMUM PRESSURE DEVICE	Maintains the minimum of 85 psig (5.9 bar) in the compressor sump.
PRESSURE RELIEF VALVE	Opens sump pressure to the atmosphere should pressure inside the sump exceed 200 psig (13.8 bar).
AIR INLET VALVE	Regulates the amount of air allowed to enter the air inlet valve. This regulation is determined by a pressure signal from the pressure regulator.
PRESSURE REGULATOR (S)	Allows a pressure signal to reach the engine speed control cylinder and the air inlet valve to control air delivery according to demand.
SHUTDOWN SYSTEM/ANNUNCIATOR MODULE	(SSAM) Monitors the compressor safety system for shutdown conditions. The annunciator module on the instrument panel will flash a code indicating the reason for compressor shutdown.
BLOWDOWN VALVE	Vents sump pressure to the atmosphere at shutdown.

Continued...

Section 4

OPERATION

4.2 PURPOSE OF CONTROLS (CONTINUED)	
CONTROL OR INDICATOR	PURPOSE
IDLE WARM-UP CONTROL	Maintains a closed air inlet valve for reduced compressor load on start-up. After engine starts, turn the handle of the selector valve from the "start" to the "run" position for full operation within the first minute of operation.
PRESSURE SELECTOR SWITCH ("H" MODELS)	Allows compressor operation in the "low" range from 85 to 110 psig (5.9 to 7.6 bar) or in the "high" range from 85 to 160 psig (5.9 to 11 bar) for "H" models.

4.3 START-UP PROCEDURE

The following procedure should be used to make the initial start-up of your compressor:

1. Position the compressor on a level surface so that proper amounts of liquid can be added if necessary. **(I)**
2. Check oil and fluid levels both in the engine and the cooling system(s). Maintain the proper level; add if necessary.
3. Fill the fuel tank. Drain water from the fuel-water separator.
4. Crack open one service line.
5. Bleed fuel injection lines if necessary (see Engine Operator's Manual).
6. Turn the warm-up control selector valve to the **start** position. For "H" models, turn the pressure selector switch to the "low" position.
7. In cold weather, engage cold weather starting aid button. Hold button for 5-10 seconds and then release.
8. Press the engine switch to the **"ON"** position.
9. Press the engine switch to the **"START"** position momentarily to engage starter, when engine starts release switch.
10. After 30 seconds (the annunciator light will go off after 30 seconds) turn the idle warm-up selector valve from **"START"** to **"RUN"** for full compressor operation.
11. Close canopy in order to maintain proper noise control.
12. After the initial run, shut the compressor down and refill the radiator and compressor fluid sump as required. Tighten any loose fittings and check fan belt tension.

4.4 SUBSEQUENT START-UP PROCEDURE

On subsequent starts, follow the procedure

explained below:

1. Check engine oil, water and fuel levels.
2. Check compressor fluid level (should be visible in sight glass). Drain water from the fuel-water separator.
3. Check dust collectors and clean if necessary.
4. Crack open service valve.
5. Bleed fuel injection lines if necessary (see Engine Operator's Manual).
6. Turn the warm-up control selector valve to the **start** position. For "H" models, turn the pressure selector switch to the "low" position.
7. In cold weather, engage cold weather starting aid button. Hold button for 5-10 seconds and then release.
8. Press the engine switch to the **"ON"** position.
9. Press the engine switch to the **"START"** position momentarily to engage starter, when engine starts release switch.
10. Allow for sufficient warm up of compressor before operating.
11. After 30 seconds (the annunciator light will go off after 30 seconds) turn the idle warm-up selector valve from **"START"** to **"RUN"** for full compressor operation.

4.5 SHUTDOWN PROCEDURE

To shut the compressor down, close the service valves and run compressor for approximately 5 minutes to allow the compressor to cool down and press the engine switch to the OFF position. In case of emergency where immediate shutdown is required, this procedure is not necessary. The engine switch should be pressed to the OFF position immediately.

(I) The radiator is filled with a 50/50 mixture of ethylene glycol and water. All engines receive Supplemental Coolant Additive (SCA) at the factory before shipment. Refer to your Engine Operator's Manual for details and specific engine requirements.

Section 5 MAINTENANCE

5.1 GENERAL

A good maintenance program is the key to long compressor life. Below is a program that, when adhered to, should keep the compressor in top operating condition. For maintenance requirements on engine, refer to the Engine Operator's Manual for a detailed description of service instructions. See [Section 5.11](#), Parts Replacement and Adjustment Procedures for a detailed description of specific compressor system components. Prior to performing maintenance, read the CIMA Safety Manual, if applicable in your area.



WARNING

DO NOT remove caps, plugs and/or other components when compressor is running or pressurized.

Stop compressor and relieve all internal pressure before doing so.

5.2 DAILY OPERATION

Prior to starting the compressor, it is necessary to check the fluid level in the sump. Should the level be low, simply add the necessary amount. If the addition of fluid becomes too frequent, a simple problem has developed which is causing this excessive loss. See the Troubleshooting Section (5.13) under [Excessive Fluid Consumption](#) for a probable cause and remedy. Also check the engine oil level and the radiator coolant level and drain water from the engine fuel/water separator prior to starting.

NOTE

The radiator and engine cooling system must be drained and flushed every two (2) years. Replace the coolant with a solution of 50% ethylene glycol and 50% water or as required for your geographic location. **DO NOT** use a leak sealing type of anti-freeze. All engines must have Supplemental Coolant Additive (SCA) added to the engine coolant system. Refer to your Engine Operator's Manual for details and specific engine requirements.

After a routine start has been made, observe the instrument panel gauge and be sure it monitors the correct reading for that particular phase of operation. After the compressor has warmed up, it is recommended that a general check on the overall compressor and instrument panel be made to assure that the compressor is running properly. Also check the air filter maintenance indicators if supplied.

5.3 MAINTENANCE AFTER INITIAL 50 HOURS OF OPERATION

After the initial 50 hours of operation, a few maintenance requirements are needed to rid the system of any foreign materials. Perform the following maintenance operations to prevent unnecessary problems.

1. Clean the return line orifice and change the strainer.
2. Change compressor fluid filter.
3. Check Engine Operator's Manual for required service.
4. Check fuel filter for water.
5. Confirm that sump cover bolts are tightened to 60 ft.-lbs. (81 Nm).

5.4 MAINTENANCE EVERY 50 HOURS

1. Inspect and replace air filter elements (if required).
2. Check fuel filter for water.

5.5 MAINTENANCE EVERY 100 HOURS

After 100 hours of operation, it will be necessary to perform the following:

1. Clean the radiator and cooler exteriors.
2. Check Engine Operator's Manual for required service.

5.6 MAINTENANCE EVERY 200 HOURS

Perform the following after every 200 hours of operation:

1. Check fan belt tension.
2. Clean the radiator and cooler exterior. Depending on how contaminated the atmosphere may be, more frequent cooler and radiator cleaning may be necessary.
3. Check Engine Operator's Manual for required service.

5.7 MAINTENANCE EVERY 250 HOURS

1. Change engine oil and filter.

NOTE

Fluid change period will vary according to fluid brand. Refer to Lubrication Guide in Section 3.

2. Change the compressor fluid filter.
3. Change the return line strainer.
4. Change the engine fuel filter.
5. Change the engine fuel-water separator.
6. Change the air filter elements.

Section 5 MAINTENANCE

7. Check Engine Operator's Manual for required service.

5.8 MAINTENANCE EVERY 500 HOURS

Perform the following after every 500 hours of operation:

1. Check the engine RPM. Idle speeds should never be allowed to fall below the minimums (see Section 3 Specifications).

NOTE

Operation at speeds below the minimum idle speeds shown in the Table in Section 3, Specifications will damage the compressor. Extended operation below those speeds will induce coupling and/or compressor failures.

3. Lubricate the control linkage.
4. Check Engine Manual for required service.

5.9 MAINTENANCE ANNUALLY OR EVERY 1500 HOURS

1. When using Sullair AWF, change the compressor fluid. (See maintenance procedures in Section 5.9).
2. Change the engine coolant.
3. Change the separator element.

5.10 MAINTENANCE EVERY YEAR OR 12,000 MILES

1. Lubricate axle bearings on wheel-mounted units.

5.11 PARTS REPLACEMENT AND ADJUSTMENT PROCEDURES

COMPRESSOR FLUID CHANGE PROCEDURE

Warm-up compressor for 5 to 10 minutes to warm the fluid. Shut the compressor off and relieve all internal pressure before proceeding. Drain the fluid sump by removing the plug at the bottom of the sump tank. Change the compressor fluid and replace the fluid filter element. For element replacement see procedure for servicing the fluid filter in this section. Fill the sump with fluid according to specifications in Section 3.

COMPRESSOR FLUID FILTER ELEMENT REPLACEMENT

Refer to Figure 5-1.

1. Using a strap wrench, remove the old element.
2. Clean the gasket seating surface.
3. Apply a light film of fluid to the new gasket.
4. Hand tighten the new element (from kit P/N 250028-032) until the new gasket is seated on the gasket seat.
5. Continue tightening the element by hand an addi-

tional 1/2 to 3/4 turn.

6. Restart the compressor and check for leaks.

AIR FILTER MAINTENANCE

Refer to Figure 5-2. Air filter maintenance should be performed as often as conditions require. If the filters are equipped with an optional maintenance indicator, maintenance should be done when the indicator shows red. The following procedure will explain how to replace the air filter element.

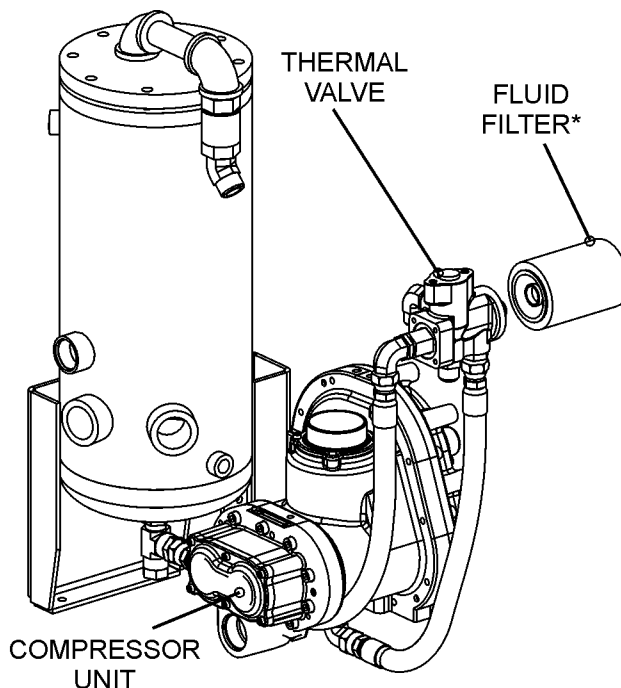
AIR FILTER ELEMENT REPLACEMENT

1. Loosen and remove the air filter end cover.
2. Remove element.
3. Clean the body and cover with a damp cloth inside and out.
4. Replace the new filter element.
5. Reposition the cover and lock into position.
6. Reset the air filter restriction indicator if so equipped, and the unit will be ready for operation.

ELEMENT INSPECTION

1. Place a bright light inside the element to inspect for damage or leak holes. Concentrated light will shine through the element and disclose any holes.
2. Inspect all gaskets and gasket contact surfaces

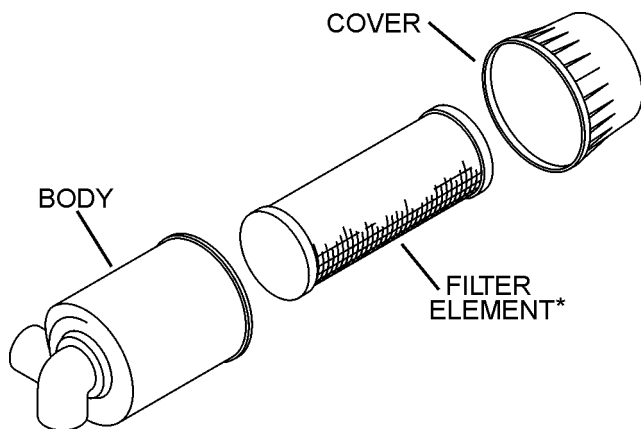
Figure 5-1 Compressor Fluid Filter



*Replacement Element Kit P/N 250028-032

Section 5 MAINTENANCE

Figure 5-2 Air Filter



*Filter Element Kit P/N 02250102-158 (2 required)

of the housing. Should faulty gaskets be evident, correct the condition immediately.

3. If the clean element is to be stored for later use, it must be stored in a clean container.
4. After the element has been installed, inspect and tighten all air inlet connections prior to resuming operation.

SEPARATOR ELEMENT REPLACEMENT

Refer to Figure 5-3. When fluid carry over is evident after the fluid return line strainer and orifice as well as the blowdown valve seal has been inspected and found to be in satisfactory condition, separator element replacement is necessary. Use separator element part number no. 250034-112 and follow the procedure explained below.

1. Remove all piping connected to the sump cover to allow removal (return line, service line, etc.).
2. Remove the fluid return line from the fitting in the cover.
3. Remove the eight (8) cover bolts and washers and lift the cover from the sump.
4. Remove the separator element.
5. Scrape the old gasket material from the cover and the flange on the sump. Be sure to keep all scrapings from falling inside tank.
6. Install the new element.
7. Replace the sump cover and bolts. Run the cover bolts in finger tight, then gradually tighten in a crisscross pattern in 4 to 5 steps. Always tighten the bolts alternately at opposite sides of the cover. Never tighten bolts adjacent to each other. Torque bolts to 60 ft.-lbs. (81 Nm).
8. Reconnect all piping. The fluid return line tube

should extend to the bottom of the separator element. This will assure the proper fluid return flow.

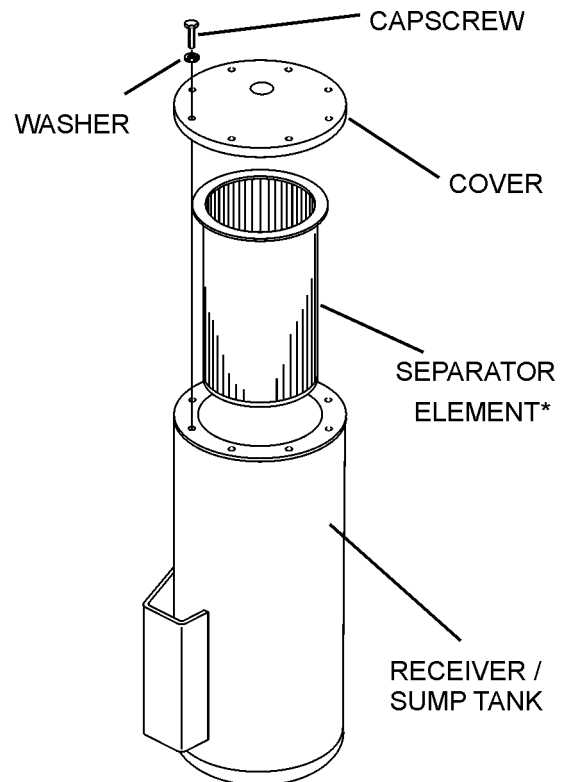
9. Clean the fluid return line strainer and clear the orifice prior to restarting the compressor.
10. After 24 hours of operation, tighten sump cover bolt to torque specification listed in step number 7.

PROCEDURE FOR SETTING SPEED AND PRESSURE CONTROLS ON PORTABLE COMPRESSORS WITH POPPET VALVE

Refer to Figure 5-4A or 5-4B. Prior to adjusting the Control System, it is necessary to determine the rated full load pressure and the high/low RPM settings for your particular compressor. This information can be obtained from the Operator's Manual (Specifications Section) or by contacting your local authorized Sullair Representative. The following explanation applies to a compressor with 100 psig (6.9 bar) rated full load pressure.

1. Start the compressor and allow the engine to warm-up to normal operating temperature with the service valve closed.

Figure 5-3 Air / Fluid Separator



*Replacement Element Kit P/N 250034-112

Section 5 MAINTENANCE

Figure 5-4A Control System Adjustment - 125, 130, 185 and 49HP Models

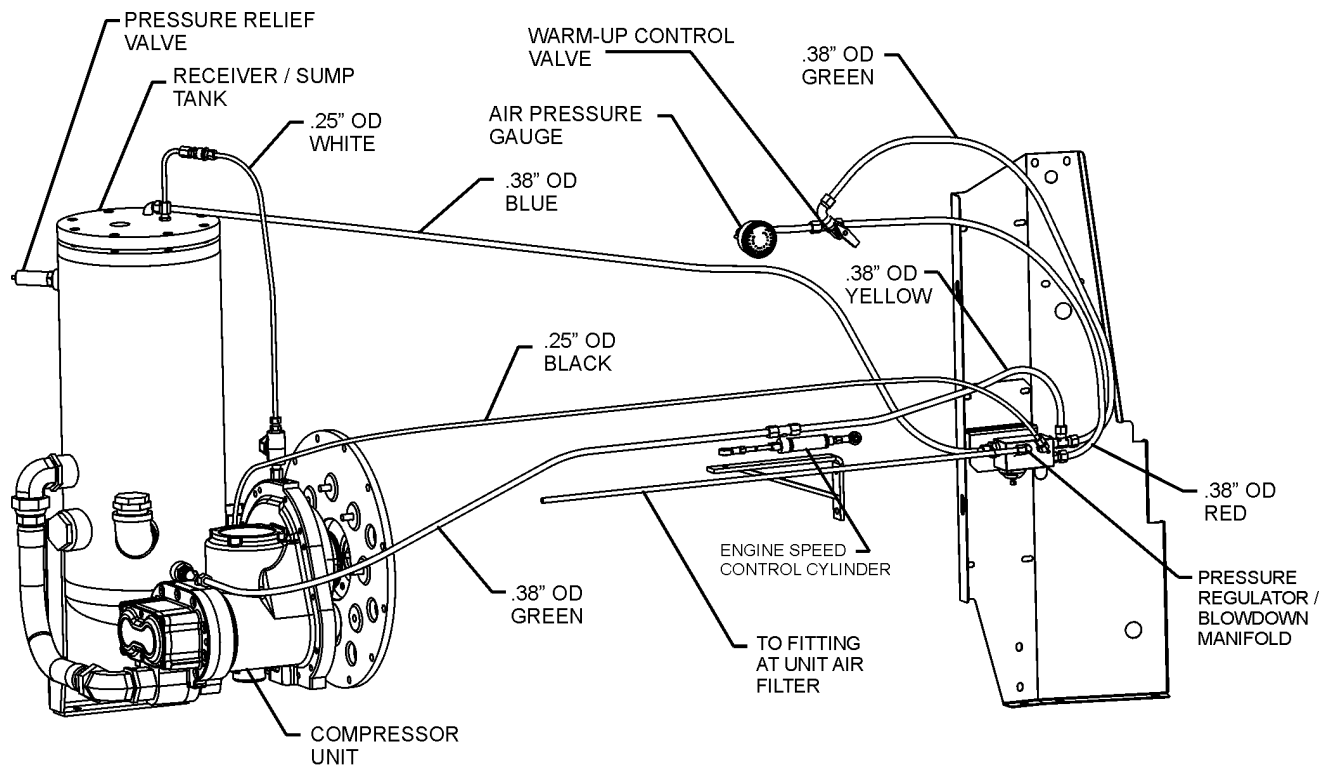
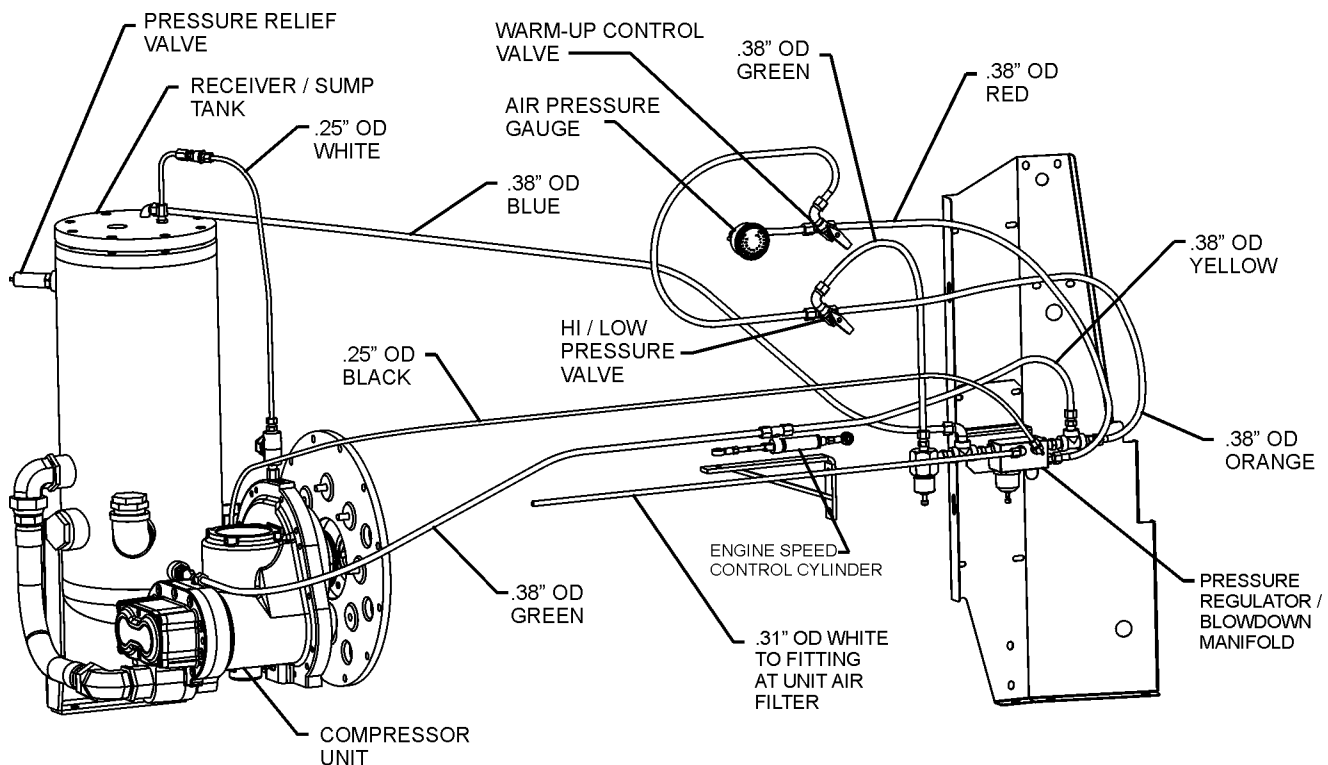


Figure 5-4B Control System Adjustment - 160H Models



Section 5 MAINTENANCE

2. With the service valve closed, set the engine low speed (idle) to its specified setting with the idle stop screw on the engine injector pump.

NOTE

Operation at speeds below the minimum idle speeds shown in Section 3 under Specifications will damage the compressor.

Extended operation below those speeds will induce coupling and/or compressor failures.

3. Adjust the pressure regulator so that the compressor maintains 120 psig (8.3 bar).
4. Gradually open the service valve to atmosphere until the engine comes up in speed and sump pressure is held at 100 psig (6.9 bar). At this point, set the engine high speed to its specified setting by adjusting the high idle threaded rod located on the engine speed control (where applicable). To raise or lower the speed, lengthen or shorten the rod respectively.
5. Open the service valve to 100 psig (6.9 bar) (rated full load pressure) and recheck top engine speed and control response. Close the service valve and allow the compressor to cycle and recheck low engine speed (idle).

The following explanation applies to “H” compressors with dual pressure controls:

1. Start the compressor and allow the engine to warm-up to normal operating temperature with the service valve closed and the pressure selec-

tor switch set to the “low” position.

2. Follow the procedure for setting the controls at 100 psig (6.9 bar) rated full load pressure as previously described in Steps 2 through 5.
3. Switch the pressure selector switch to the “high” position with the service valve closed.
4. Adjust the high pressure regulator so that the compressor maintains 165 psig (11.4 bar).
5. Gradually open the service valve to atmosphere until the engine comes up in speed and sump pressure is held at 150 psig (10.3 bar). At this point the engine should be at rated speed. If necessary, to raise or lower the speed, lengthen or shorten the rod respectively.

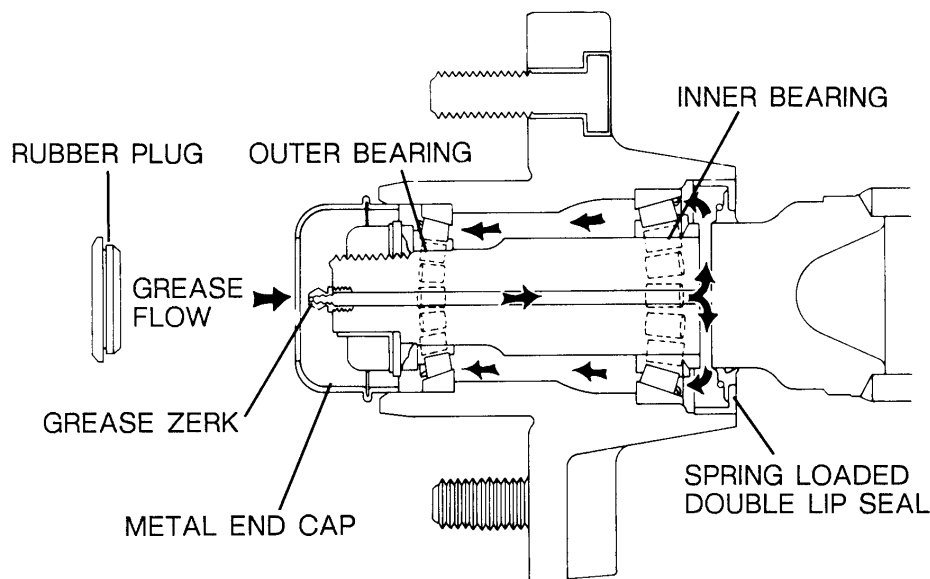
OPERATING ADJUSTMENTS

The first step is to start the compressor according to the instructions in Section 4, Subsequent Start-up. Allow the engine to operate until it reaches the normal operating temperature. Open the service valve until the engine speed increases to, or close to, the maximum specified operating speed.

BEARING LUBRICATION

Refer to Figure 5-5. Proper lubrication is essential to the proper functioning and reliability of your portable compressor axle. Wheel bearings should be lubricated at least once every 12 months, or more frequently to help insure proper performance. Use wheel bearing grease that conforms to military specification MIL-G-10924 or a high temperature wheel bearing grease such as lithium complex

Figure 5-5 Typical E-Z Lube Axle



Section 5

MAINTENANCE

NLGI Consistency #2.

If your axle is equipped with the E-Z Lube feature, the bearings can be periodically lubricated without removing the hubs from the axle. This feature consists of axle spindles that have been specially drilled and fitted with a grease zerk in their ends. When grease is pumped into the zerk, it is channeled to the inner bearing and then flows back to the outer bearing and eventually back out of the grease cap hold (see Figure 5-5). The procedure is as follows:

1. Remove the rubber plug from the end of the grease cap.
2. With a standard grease gun filled with a quality wheel bearing grease, place the gun onto the grease zerk located in the end of the spindle. Make sure the grease gun nozzle is fully engaged on the fitting.
3. Pump grease into the zerk. The old, displaced

grease will begin to flow back out the cap around the grease gun nozzle.

4. When the new, clean grease is observed, remove the grease gun, wipe off any excess, and replace the rubber plug in the cap.

5.12 TROUBLESHOOTING INTRODUCTION

The following Troubleshooting Chart is based upon the data obtained both from testing at the factory and from applied situations in the field. It contains symptoms and usual causes for the described problems, however **DO NOT** assume that these are the only problems that may occur. All available data concerning the trouble should be systematically analyzed before undertaking any repairs or component replacement procedures.

A detailed visual inspection is worth performing for almost all problems. Doing so may prevent unnecessary additional damage to the compressor.

5.13 TROUBLESHOOTING GUIDE		
SYMPTOM	PROBABLE CAUSE	REMEDY
ENGINE DOES NOT CRANK OR CRANKS ONLY WITHOUT STARTING:		
NO FLASH CODE:	Low Voltage or Battery Disconnected	Check battery cables and tighten if necessary.
		Check ground wire for proper attachment to frame. Tighten as required.
		Recharge or replace battery if required.
	Blown Fuse in Wiring Harness	Remove and inspect fuse. Replace if necessary.
	Instrument Panel Connectors Loose or Disconnected	Checked instrument panel connectors and reattach if required.
		Check instrument panel wires for broken connections or corrosion. Clean and/or replace if required.
	Faulty SSAM Module	Replace the SSAM Module.
COMPRESSOR SHUTS DOWN:		
NO FLASH CODE:	Blown Fuse in Wiring Harness	Remove/Inspect fuse and replace if necessary.
	Instrument Panel Connectors Loose or Disconnected.	Check instrument panel connectors and reattach if required.
		Check instrument panel wires for broken connections or corrosion. Clean and/or replace if required.
	Faulty SSAM Module	Replace the SSAM Module.

Continued...

Section 5 MAINTENANCE

5.13 TROUBLESHOOTING GUIDE (CONTINUED)		
SYMPTOM	PROBABLE CAUSE	REMEDY
FLASH CODE: ONE FLASH	Faulty Compressor Temperature Switch	Check wiring connection to switch and tighten as required.
		Check switch continuity when cool and replace if necessary.
	Cooling Air Flow is Insufficient	Clean cooler and check for proper ventilation.
	Low Compressor Fluid Sump Level	Add fluid as required.
	Clogged Compressor Fluid Filter	Change filter element.
	Faulty Thermostat	Change the thermostat element.
	Loose or Broken Fan Belt	Check fan belt and tighten/replace as necessary.
	Plugged Fluid Cooler Tube (Internal)	Replace cooler.
FLASH CODE: TWO FLASHES	Faulty Engine Coolant Temperature Switch	Check wiring connection to switch and tighten as necessary.
		Check switch continuity to ground when cool and replace if necessary.
	Cooling Air Flow is Insufficient	Clean cooler and check for proper ventilation.
	Loose or Broken Fan Belt	Check fan belt and tighten/replace as necessary.
	Engine Problems May Have Developed	Refer to engine operators manual.
	No Engine Coolant	Check engine coolant level and fill with proper water/glycol mixture as required.
FLASH CODE: THREE FLASHES	Faulty Engine Oil Pressure Switch	Check wiring connection to switch and tighten as required.
		Install gauge in parallel with switch. Replace switch if pressure exceeds 15 psig and switch stays open. If pressure is less than 15 psig, refer to Engine Operator's Manual.
FLASH CODE: FOUR FLASHES	No/Low Fuel	Check fuel level and add fuel if necessary.
	Plugged Fuel Filter	Replace and clean as required.
	Plugged Air Filter	Replace and clean as required.
	Water/Dirt in Fuel and/or Fuel Filter	Drain water from fuel water separators on fuel filters. Siphon water from fuel tank and clean fuel tank if necessary.

Continued...

Section 5

MAINTENANCE

5.13 TROUBLESHOOTING GUIDE (CONTINUED)		
SYMPTOM	PROBABLE CAUSE	REMEDY
COMPRESSOR WILL NOT BUILD UP FULL DISCHARGE PRESSURE		For compressors with idle warm-up controls, switch toggle to "run" for full operation.
	Air Demand Is Too Great	Check service lines for leaks or open valves.
	Dirty Air Filter	Check the filter indicator and change element if required.
	Defective Pressure Regulator	Check diaphragm and replace if necessary (kit available).
	Defective Idle Warm-up Control	Replace control.
IMPROPER UNLOADING WITH AN EXCESSIVE PRESSURE BUILD-UP CAUSING PRESSURE RELIEF VALVE TO OPEN	Pressure Regulating Valve Is Set Too High	Readjust.
	Leak In Control System Causing Loss Of Pressure Signal	Check control lines.
		Defective pressure regulating valve; repair valve (kit available).
	Inlet Valve Jammed	Free or replace valve.
	Restriction In The Control System	Check all control lines and components. Ice and/or other contaminants could cause restrictions.
	Defective Pressure Relief Valve Opening At Too Low Of Pressure	Replace pressure relief valve.
	Defective Pressure Regulator	Check diaphragm and replace if necessary (kit available).
INSUFFICIENT AIR DELIVERY	Engage Idle Warm-up Control In "Run" Position For Full Compressor Operation	
	Plugged Air Filter	Replace.
	Plugged Air/Fluid Separator	Replace separator element and also change compressor fluid and fluid filter at this time.
	Defective Pressure Regulator	Adjust or repair.
	Engine Speed Too Low	Readjust engine speed.
	Defective Idle Warm-up Control	Replace control.
EXCESSIVE COMPRESSOR FLUID CONSUMPTION	Clogged Return Line	Clear orifice and return line strainer.
	Leak In The Lubrication System	Check all pipes, connections and components.
	Separator Element Damaged Or Not Functioning Properly	Change separator element.

Section 6 NOISE CONTROL

6.1 NOISE EMISSIONS WARRANTY

Sullair Corporation 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. E.P.A. and/or any Federal, State or Local 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.

6.2 TAMPERING WITH THE NOISE CONTROL SYSTEM IS 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.
2. The use of the compressor after such device or element of design has been removed or ren-

dered inoperative by any person.

Among those acts included in the prohibition against tampering are the acts listed below:

1. Removal or rendering inoperative any of the following:
 - a. Engine exhaust system or parts thereof
 - b. Compressor air intake system or part thereof
 - c. Enclosure of part thereof
2. Removal of any of the following:
 - a. Vibration isolators
 - b. Control silencer
 - c. Floor panel
 - d. Fan shroud
 - e. Acoustical materials including fiberglass foam or foam tape
3. Operation with canopy doors open for any purpose other than starting, stopping, adjustment, repair, replacement of parts or maintenance.

6.3 NOISE EMISSIONS MAINTENANCE AND MAINTENANCE RECORD LOG

The following instructions and maintenance record log book, for the proper maintenance, use and repair of this compressor, is intended to prevent noise emission degradation (refer to Figure 6-1).

Figure 6-1 Noise Emission Maintenance and Maintenance Record Log

1. ANNUAL MUFFLER AND EXHAUST SYSTEM INSPECTION

At least annually inspect muffler(s) and engine exhaust system to make sure all parts are securely mounted, that all joints and connections are tight, and that the muffler is in good condition. **DO NOT** operate compressor with defective exhaust system. Remove and replace any defective parts by ordering with part numbers indicated in the Parts List.

Maintenance Performed
By
Location
Date

Maintenance Performed
By
Location
Date



Section 6

NOISE CONTROL

2. ANNUAL AIR FILTER(S) AND AIR INLET SYSTEM INSPECTION

In addition to the instructions in the Maintenance section of the Operator's Manual, the air filter(s) and entire air inlet system should be inspected at least annually, to make sure all parts are securely mounted, that all joints and connections are tight, that there are no other leaks in the system, and that the filter element(s) are intact. **DO NOT** operate compressor with defective air inlet system. Remove and replace defective parts by ordering with part numbers indicated in the Parts List.

Maintenance Performed
By
Location
Date

Maintenance Performed
By
Location
Date



3. ANNUAL ENGINE VIBRATION MOUNT INSPECTION

At least annually inspect engine vibration mounts for security of attachment and to make sure the resilient parts are intact. **DO NOT** operate compressor with defective engine mounting system. Remove and replace defective parts by ordering with part numbers indicated in Parts List.

Maintenance Performed
By
Location
Date

Maintenance Performed
By
Location
Date



Section 6 NOISE CONTROL

4. ANNUAL FRAME, CANOPY, AND PARTS INSPECTION

At least annually inspect frame, canopy and parts, for security of attachment. Make sure there are not any missing or deformed members, including all hinged doors, covers and their fastening devices. **DO NOT** operate compressor with defective frame, canopy and parts. Remove and replace defective parts by ordering with part numbers indicated in Parts List.

Maintenance Performed
By
Location
Date

Maintenance Performed
By
Location
Date



5. ANNUAL ACOUSTICAL MATERIALS INSPECTION

At least annually inspect all acoustical materials, if any, for security of attachment. Make sure that there is not any material missing or damaged (refer to Parts List). Clean or replace, if necessary. **DO NOT** operate compressor with defective acoustical material. Remove and replace defective parts by ordering with part numbers indicated in the Parts List.

Maintenance Performed
By
Location
Date

Maintenance Performed
By
Location
Date



Section 6

NOISE CONTROL

6. ANNUAL INSPECTIONS FOR PROPER OPERATION OF ALL SYSTEMS

In addition to other instructions in the Operator's Manual, at least annually, operate compressor and inspect to make sure all systems are operating properly and that engine runs at rated speed and pressure. **DO NOT** operate malfunctioning or improperly adjusted compressor. Repair or adjust, per instructions in Operator's Manual, as required.

Maintenance Performed
By
Location
Date

Maintenance Performed
By
Location
Date



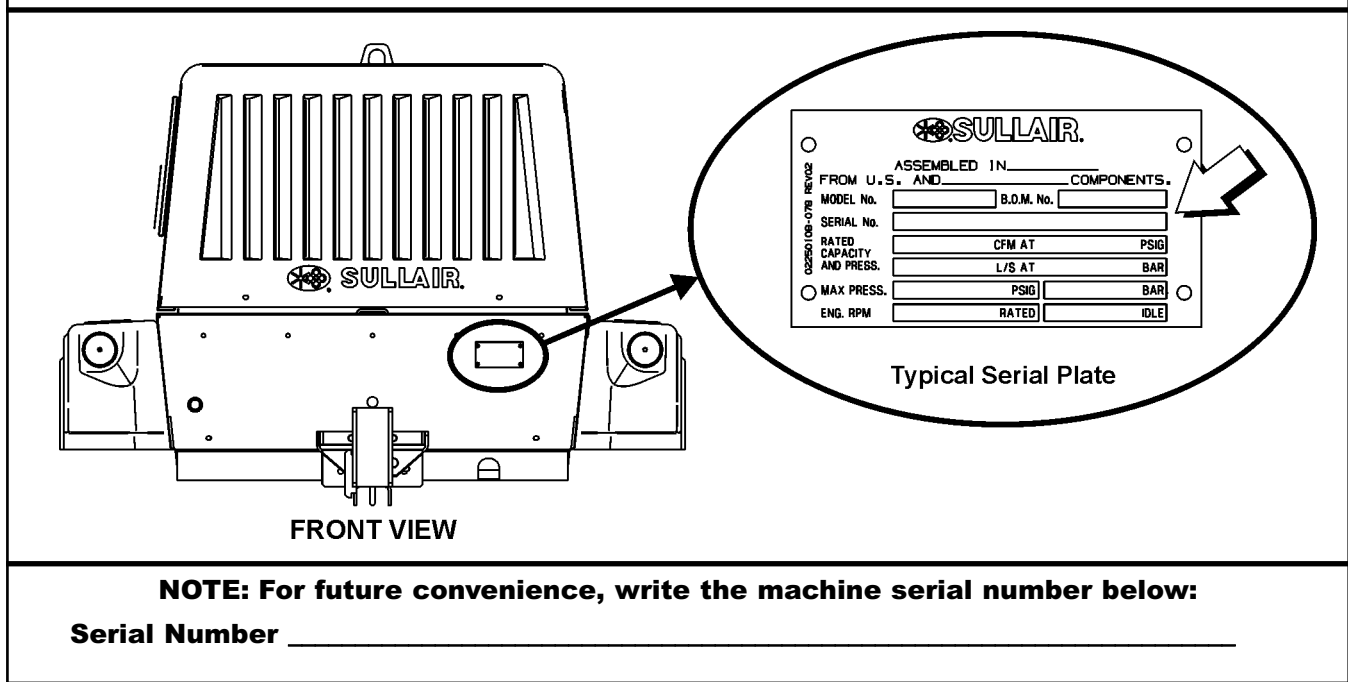
Section 7 ILLUSTRATIONS AND PARTS

7.1 PROCEDURE FOR ORDERING PARTS

Parts should be ordered from the nearest Sullair Representative or the Representative from whom the compressor was purchased. If for any reason parts cannot be obtained in this manner, contact the factory directly at the addresses, websites, telephone or fax numbers below.

When ordering parts always indicate the **Serial Number** of the compressor. This can be obtained from the Bill of Lading for the compressor or from the Serial Number Plate located on the compressor (see Figure 7-1).

Figure 7-1 Serial Number Plate Location



SULLAIR CORPORATION

3700 East Michigan Boulevard
Michigan City, Indiana 46360 U.S.A.

www.sullair.com

☎: 1-800-SULLAIR (U.S.A. Only)
or 1-219-879-5451

Fax: (219) 874-1273

PARTS DEPARTMENT

☎: 1-888-SULLAIR

Fax: (219) 874-1835

www.sullair.com

SERVICE DEPARTMENT

☎: 1-888-775-1604 (U.S.A. & Canada Only)

Fax: (219) 874-1205

www.sullaircompressors.com

SULLAIR ASIA, LTD.

Sullair Road, No. 1
Chiwan, Shekou
Shenzhen, Guangdong PRV.
PRC POST CODE 518068

☎: 755-6851686

Fax: 755-6853473

www.sullair-asia.com

CHAMPION COMPRESSORS, LTD.

Princes Highway
Hallam, Victoria 3803
Australia

☎: 1800-810-015 (for Australia
-wide Branch Network Only)

☎: 61-3-9796-4000

Fax: 61-3-9703-8053

www.championcompressors.com.au

SULLAIR EUROPE, S.A.

Zone Des Granges BP 82
42602 Montbrison Cedex,
France

☎: 33-477968470

Fax: 33-477968499

www.sullaieurope.com

Section 7

ILLUSTRATIONS AND PARTS

7.2 SPARE PARTS LIST

LIST REFERENCE	DESCRIPTION	ORDER KIT NUMBER	QTY
1	element for air filter assy.	02250102-158	2
2	element for main compressor fluid filter	250028-032	1
3	element for air/fluid separator	250034-112	1
4	element for engine fuel/water separator	02250118-495	1
5	repair kit for regulator/blowdown valve manifold	02250147-737	1
6	element for thermal valve	02250124-404	1
7	repair kit for return line strainer 241771	241772	1
8	repair kit for low pressure regulator ("H" models)	250019-453	1
9	replacement, valve dust ejector	02250115-271	1
10	kit, coupling	02250139-986	1
11	repair kit for inlet valve	02250109-684	1
12	element for engine oil filter (Caterpillar & Perkins)	02250140-049	1
13	element for engine fuel filter (Caterpillar & Perkins)	02250140-048	1
14	kit, 50 hour maintenance	02250152-936	1
15	kit, 250 hour maintenance (Caterpillar)	02250152-937	1
	• kit, 250 hour maintenance (John Deere)	02250152-943	1
	• kit, 250 hour maintenance (Perkins)	02250152-940	1
16	kit, 1500 hour maintenance (Caterpillar)	02250152-938	1
	• kit, 1500 hour maintenance (John Deere)	02250152-944	1
	• kit, 1500 hour maintenance (Perkins)	02250152-941	1
17	Sullair AWF - 5 gallons (18.9 liter)	250030-757	1
18	Sullair AWF - 55 gallon drum (208 liter)	250030-758	1
19	manual, AEM safety	250023-146	1

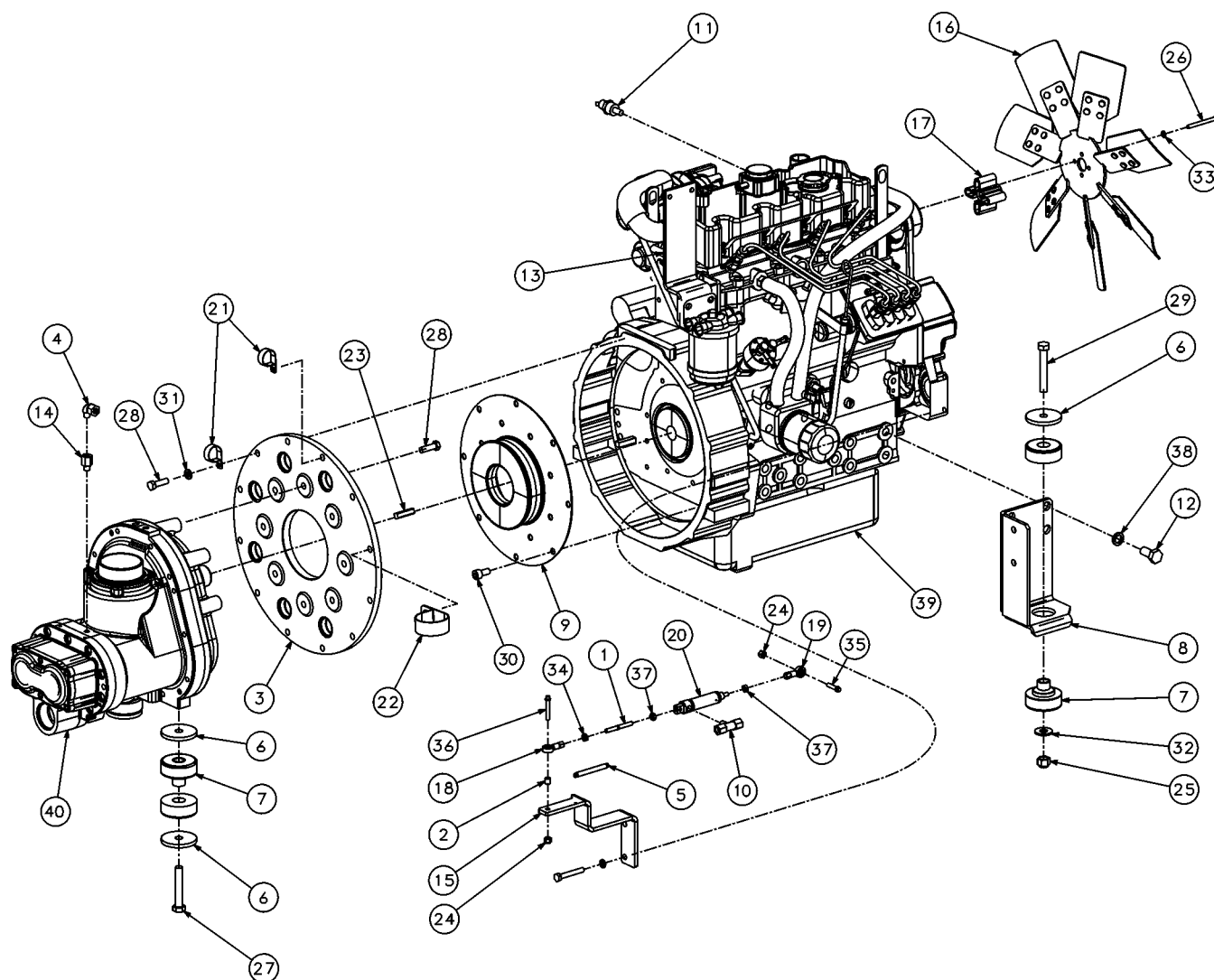
PLEASE NOTE: WHEN ORDERING PARTS, INDICATE SERIAL NUMBER OF COMPRESSOR

NOTES

Section 7

ILLUSTRATIONS AND PARTS

7.3A ENGINE, COMPRESSOR AND PARTS - PERKINS AND CATERPILLAR MODELS 125, 130 AND 185



Section 7 ILLUSTRATIONS AND PARTS

7.3A ENGINE, COMPRESSOR AND PARTS - PERKINS AND CATERPILLAR MODELS 125, 130 AND 185

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	rod, threaded speed control 1/4-28	02250064-593	1
2	spacer, brake lever 250p	02250064-594	1
3	adapter, sae #4 to 10 series	02250071-119	1
4	elbow, 90 3/8"tube x 1/8"npt m	02250099-622	1
5	spring, extension .31 x 7.5#/in	02250112-337	1
6	washer, snubbing vibration mount	02250125-471	6
7	mount, vibration isolator 185	02250125-472	4
8	support, engine front ca 185dpq 60hp	02250136-993	2
9	coupling, assy ktr 185dpq 60hp	02250138-058	1
10	tee, male branch 3/8"tube x 1/8"npt	02250138-698	1
11	switch, engine sht dwn 230 185 60hp	02250139-887	1
12	capscrew, hex met fine m14-1.5x30	02250139-888	8
13	support, fuel fltr perkins 185q	02250139-916	1
14	valve, check 1/8 female - male	02250142-248	1
15	support,spd ctl 185dpq pe 60hp	02250143-546	1
16	fan, 18" blower 185 pe/cat	02250147-425	1
17	spacer, fan 1.50 185 cat	02250148-573	1
18	joint, ball female 1/4" l.h.	250011-578	1
19	joint, ball female 1/4" r.h.	250011-597	1
20	cylinder, speed 3/4 x 1 stroke	250024-272	1
21	clamp, hose 5/8" i.d.	408300-005	2
22	clamp, hose 1 13/16" i.d.	408300-009	1
23	key, square cl2 3/8" x 1 1/2	821206-150	1
24	nut, hex locking 1/4-20	825504-145	2
25	nut, hex locking 1/2-13	825508-262	2
26	capscrew, hex 8.8 m6 x 65mm	828006-065	4
27	capscrew, hex 8.8 m12 x 75mm	828012-075	2
28	capscrew, hex gr5 3/8-16 x 1 1/4	829106-125	19
29	capscrew, hex gr5 1/2-13 x 3 1/4	829108-325	2
30	screw, socket iso 4762 m10 x 20mm	829310-020	8
31	washer, spr lock reg pltd 3/8	837806-094	12
32	washer, pl-b reg pltd 1/2	838208-112	2

Continued on page 45

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.3A ENGINE, COMPRESSOR AND PARTS - PERKINS AND CATERPILLAR MODELS 125, 130 & 185 (CONTINUED)

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
33	washer, spr lock-metric pltd m6	838806-160	4
34	nut, hex jam lh pltd 1/4-28	866604-164	1
35	capscrew, ferry head hd pltd 1/4-20 x 1	867304-100	1
36	capscrew, ferry head hd pltd 1/4-20 x 1 1/2	867304-150	1
37	nut, hex jam rh pltd 1/4-28	868204-164	2
38	washer, nord-lock pl 9/16"	878609-091	8
39	engine	(I)	1
40	compressor & part,dxx102147e	(I)	1

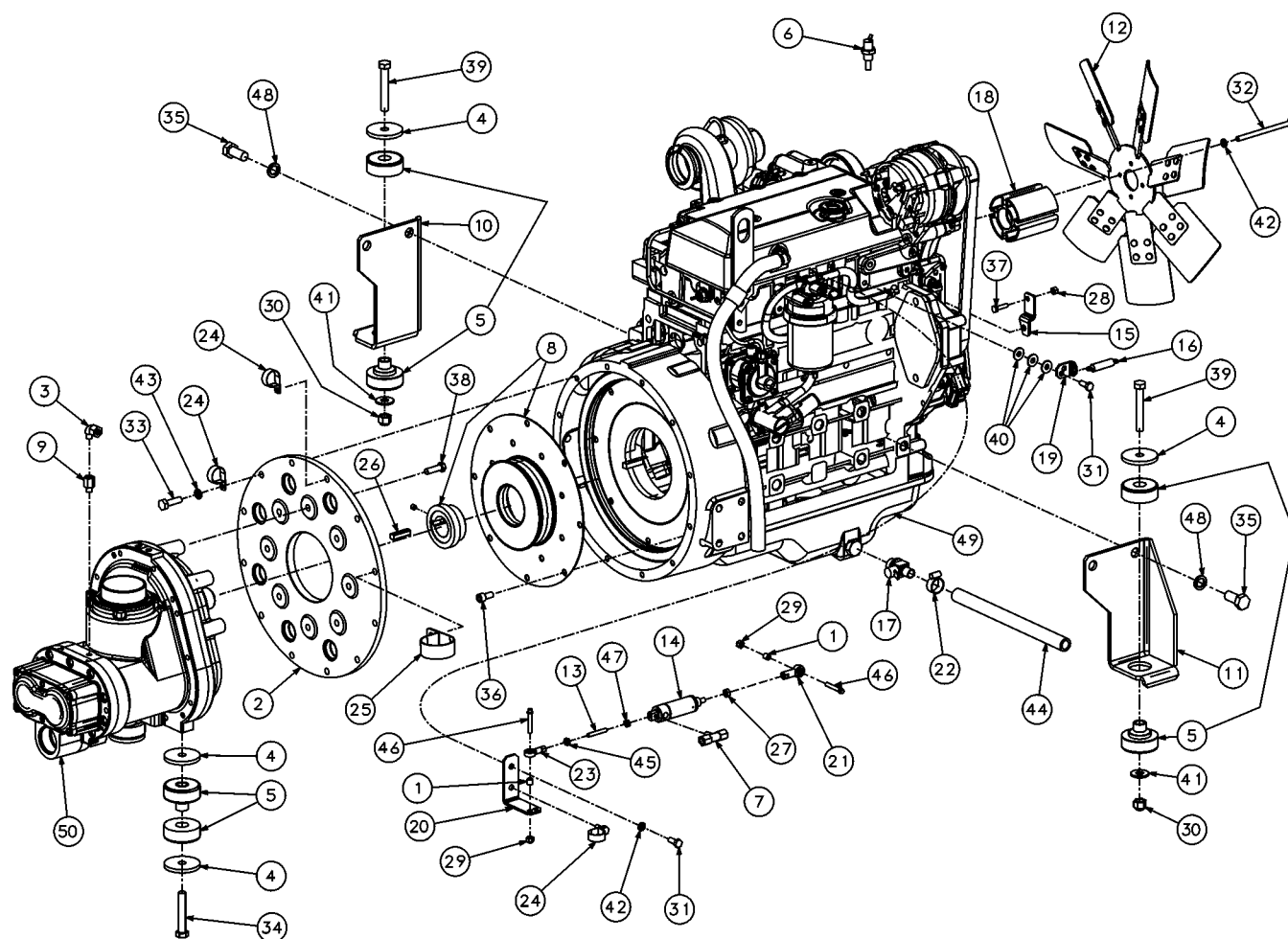
(I) [Consult factory](#) with serial number to determine part number.

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.3B ENGINE, COMPRESSOR AND PARTS - JOHN DEERE MODELS 125, 130, 185 & 49HP



Section 7 ILLUSTRATIONS AND PARTS

7.3B ENGINE, COMPRESSOR AND PARTS - JOHN DEERE MODELS 125, 130, 185 & 49HP

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	spacer, brake lever 250p	02250064-594	2
2	adapter, sae #4 to 10 series	02250071-119	1
3	elbow, 90 3/8"tube x 1/8"npt m	02250099-622	1
4	washer, snubbing vibration mount	02250125-471	6
5	mount, vibration isolator 185	02250125-472	4
6	switch,engine hi-temp, 225f nc	02250138-107	1
7	tee, male branch 3/8"tube x 1/8"npt	02250138-698	1
8	coupling, assembly ktr w/hub 185q 60hp	02250139-986	1
9	valve, check 1/8 female - male	02250142-248	1
10	support, engine front rh 185jd 60hp	02250143-547	1
11	support, engine front lh 185jd 60hp	02250143-548	1
12	fan, 18" blower cw rot 185jd	02250147-741	1
13	rod, speed ctl 185dpq jd	02250148-086	1
14	cylinder, speed air 1-1/16 bore 1' stk	02250148-089	1
15	support, low rpm stop 185 jd	02250148-091	1
16	spring, extension spd ctl 185 jd	02250148-166	1
17	valve, eng oil drain m22x1.5	02250148-791	1
18	spacer, fan 3.50lg 2.5bc 185h jd	02250148-826	1
19	clip, spring spd ctl 185-260	02250152-418	1
20	support, spd ctl 185-260 jd	02250152-439	1
21	rod end, spherical rh 5/16	040136	1
22	clamp, hose 13/16" to 1-1/2"	040513	1
23	joint, ball female 1/4" l.h.	250011-578	1
24	clamp, hose 5/8" i.d.	408300-005	3
25	clamp, hose 1 13/16" i.d.	408300-009	1
26	key, square cl2 3/8" x 1 1/2	821206-150	1
27	nut, jam rh unfin 5/16-24	824605-195	1
28	nut, hex pltd 1/4-20	825204-226	1
29	nut, hex locking 1/4-20	825504-145	2
30	nut, hex locking 1/2-13	825508-262	2
31	capscrew, hex 8.8 m8 x 20mm	828008-020	3
32	capscrew, hex 8.8 m8 x 120mm	828008-120	4

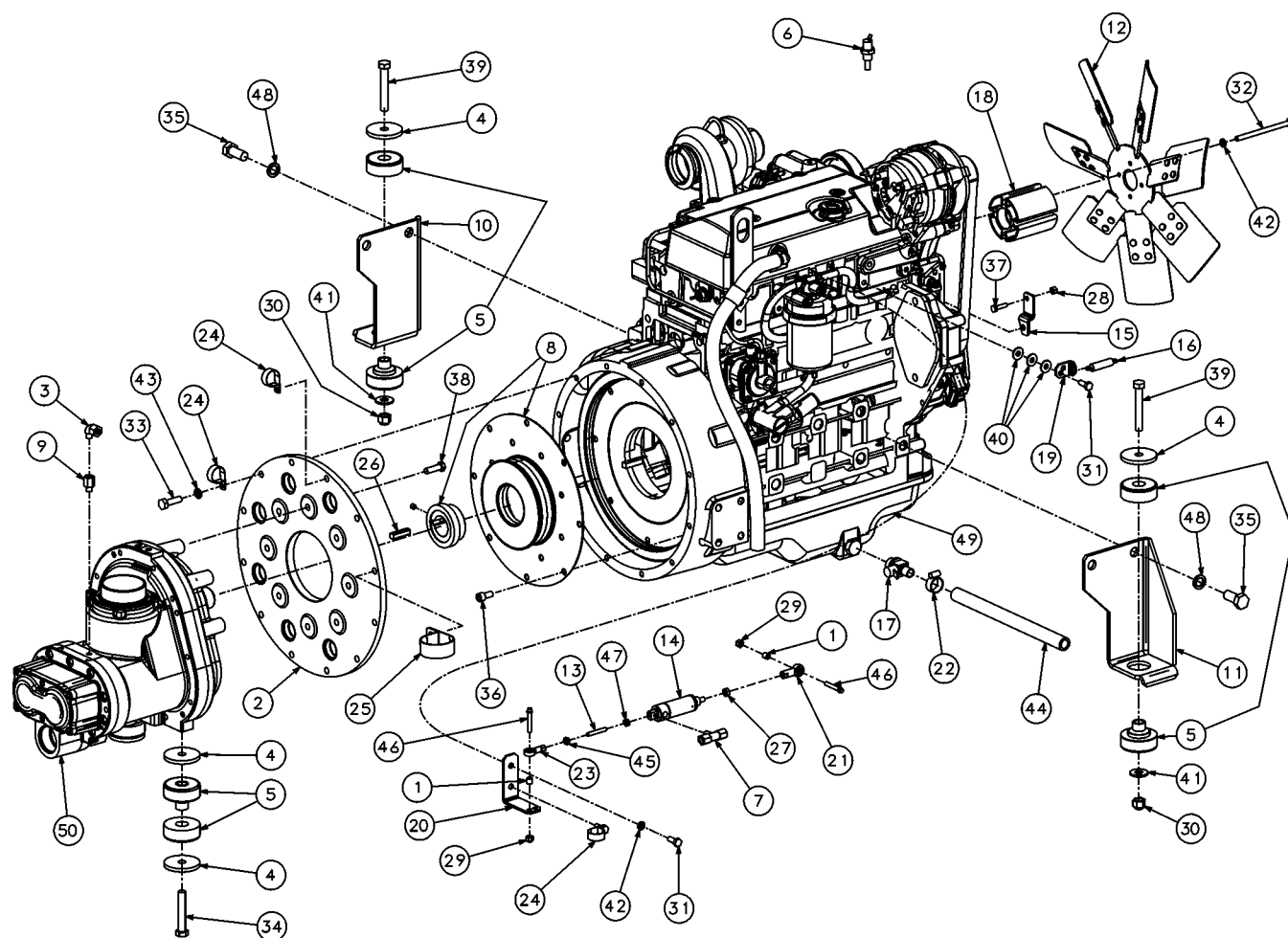
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PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.3B ENGINE, COMPRESSOR AND PARTS - JOHN DEERE MODELS 125, 130, 185 & 49HP



Section 7

ILLUSTRATIONS AND PARTS

7.3B ENGINE, COMPRESSOR AND PARTS - JOHN DEERE MODELS 125, 130, 185 & 49HP (CONTINUED)

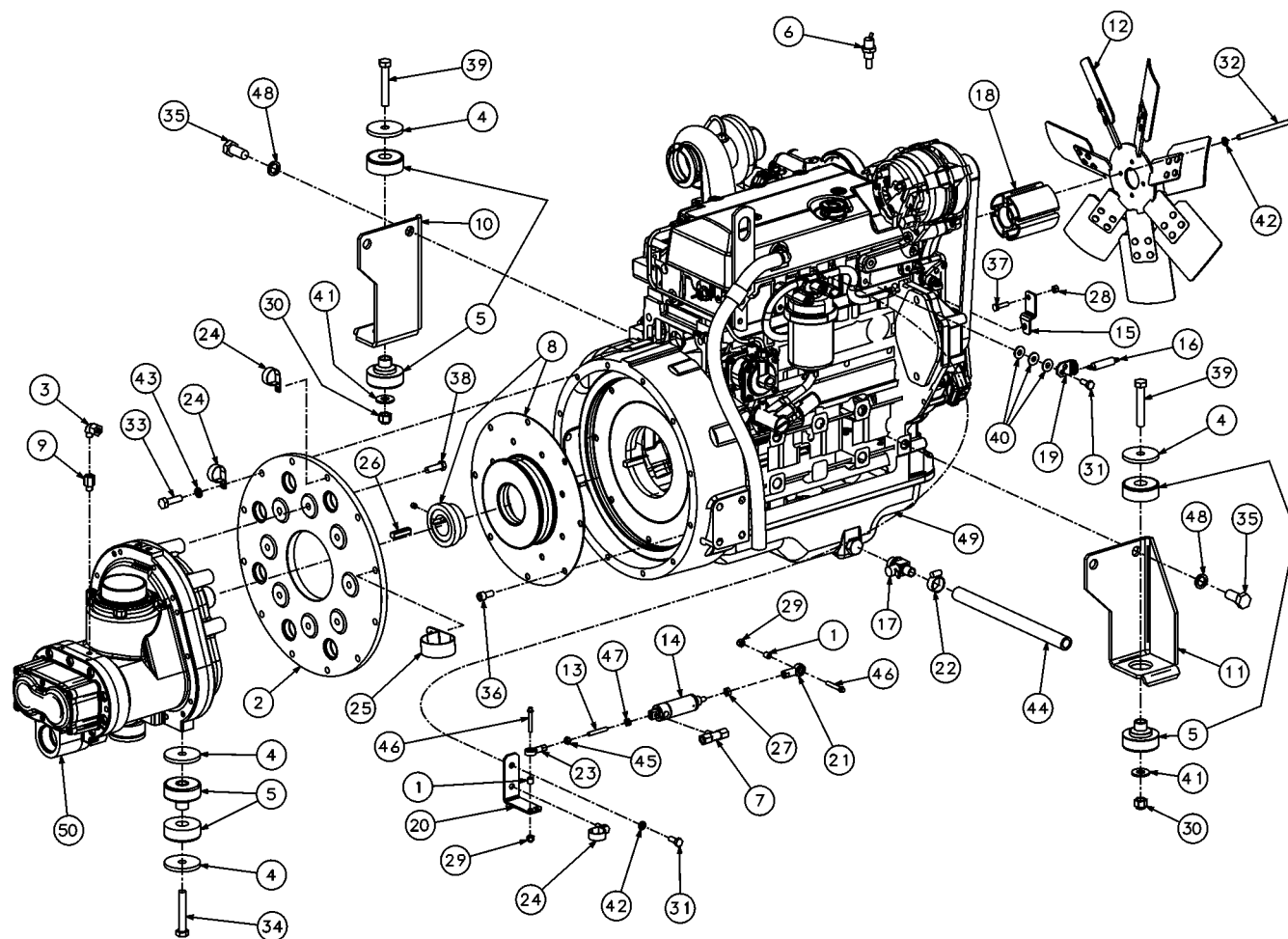
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
33	capscrew, hex 8.8 m10 x 35mm	828010-035	12
34	capscrew, hex 8.8 m12 x 75mm	828012-075	2
35	capscrew, hex 8.8 m16 x 35mm	828016-035	4
36	capscrew, socket hd 3/8-16 x 3/4	828306-075	8
37	capscrew, hex gr5 1/4-20 x 1	829104-100	1
38	capscrew,hex gr5 3/8-16 x 1 1/4	829106-125	8
39	capscrew,hex gr5 1/2-13 x 3 1/4	829108-325	2
40	washer, pl-b reg pltd 5/16	838205-071	3
41	washer, pl-b reg pltd 1/2	838208-112	2
42	washer, spr lock-metric pltd m8	838808-200	6
43	washer, spr lock-metric pltd m10	838810-220	12
44	hose,heater 5/8 (ft)	842115-062	1
45	nut, hex jam lh pltd 1/4-28	866604-164	1
46	capscrew, ferry head hd pltd 1/4-20 x 1 1/2	867304-150	2
47	nut, hex jam rh pltd 1/4-28	868204-164	1
48	washer, nord-lock pl 5/8"	878610-100	4
49	engine, jd 4024t 60hp 185dpq	(I)	1
50	compressor & part,dxx102147e	(I)	1

(I) [Consult factory](#) with serial number to determine part number.

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

7.3C ENGINE, COMPRESSOR AND PARTS - JOHN DEERE MODEL 160H



Section 7 ILLUSTRATIONS AND PARTS

7.3C ENGINE, COMPRESSOR AND PARTS - JOHN DEERE MODEL 160H

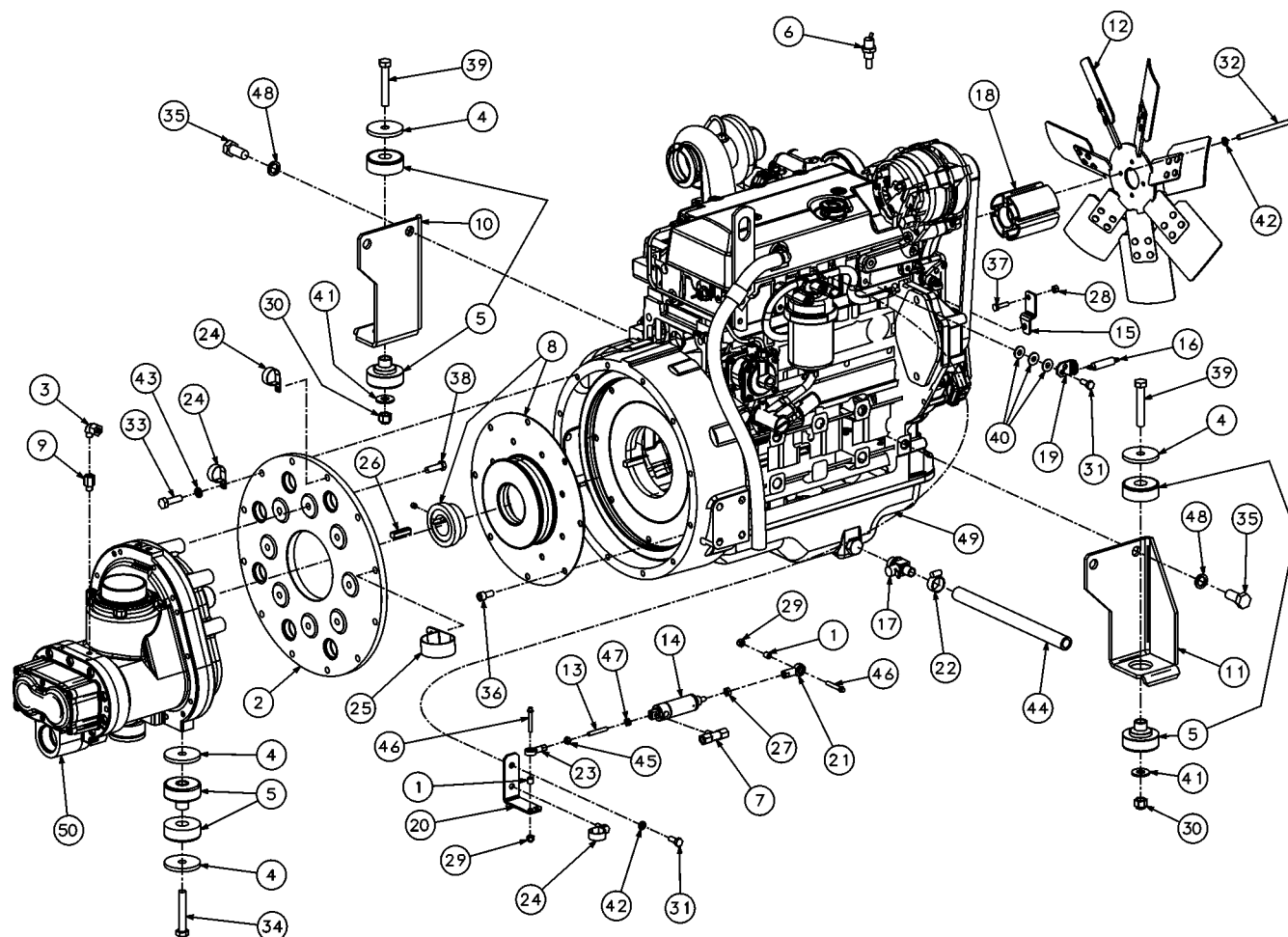
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	spacer, brake lever 250p	02250064-594	2
2	adapter, sae #4 to 10 series	02250071-119	1
3	elbow, 90 3/8"tube x 1/8"npt m	02250099-622	1
4	washer, snubbing vibration mount	02250125-471	6
5	mount, vibration isolator 185	02250125-472	4
6	switch,engine hi-temp, 225f nc	02250138-107	1
7	tee, male branch 3/8"tube x 1/8"npt	02250138-698	1
8	coupling, assembly ktr w/hub 185q 60hp	02250139-986	1
9	valve, check 1/8 female - male	02250142-248	1
10	support, engine front rh 185jd 60hp	02250143-547	1
11	support, engine front lh 185jd 60hp	02250143-548	1
12	fan, 18" blower cw rot 185jd	02250147-741	1
13	rod, speed ctl 185dpq jd	02250148-086	1
14	cylinder, speed air 1-1/16 bore 1' stk	02250148-089	1
15	support, low rpm stop 185 jd	02250148-091	1
16	spring, extension spd ctl 185 jd	02250148-166	1
17	valve, eng oil drain m22x1.5	02250148-791	1
18	spacer, fan 3.50lg 2.5bc 185h jd	02250148-826	1
19	clip, spring spd ctl 185-260	02250152-418	1
20	support, spd ctl 185-260 jd	02250152-439	1
21	rod end, spherical rh 5/16	040136	1
22	clamp, hose 13/16" to 1-1/2"	040513	1
23	joint, ball female 1/4" l.h.	250011-578	1
24	clamp, hose 5/8" i.d.	408300-005	3
25	clamp, hose 1 13/16" i.d.	408300-009	1
26	key, square cl2 3/8" x 1 1/2	821206-150	1
27	nut, jam rh unfin 5/16-24	824605-195	1
28	nut, hex pltd 1/4-20	825204-226	1
29	nut, hex locking 1/4-20	825504-145	2
30	nut, hex locking 1/2-13	825508-262	2
31	capscrew, hex 8.8 m8 x 20mm	828008-020	3
32	capscrew, hex 8.8 m8 x 120mm	828008-120	4

Continued on page 53

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

7.3C ENGINE, COMPRESSOR AND PARTS - JOHN DEERE MODEL 160H



Section 7

ILLUSTRATIONS AND PARTS

7.3C ENGINE, COMPRESSOR AND PARTS - JOHN DEERE MODEL 160H (CONTINUED)

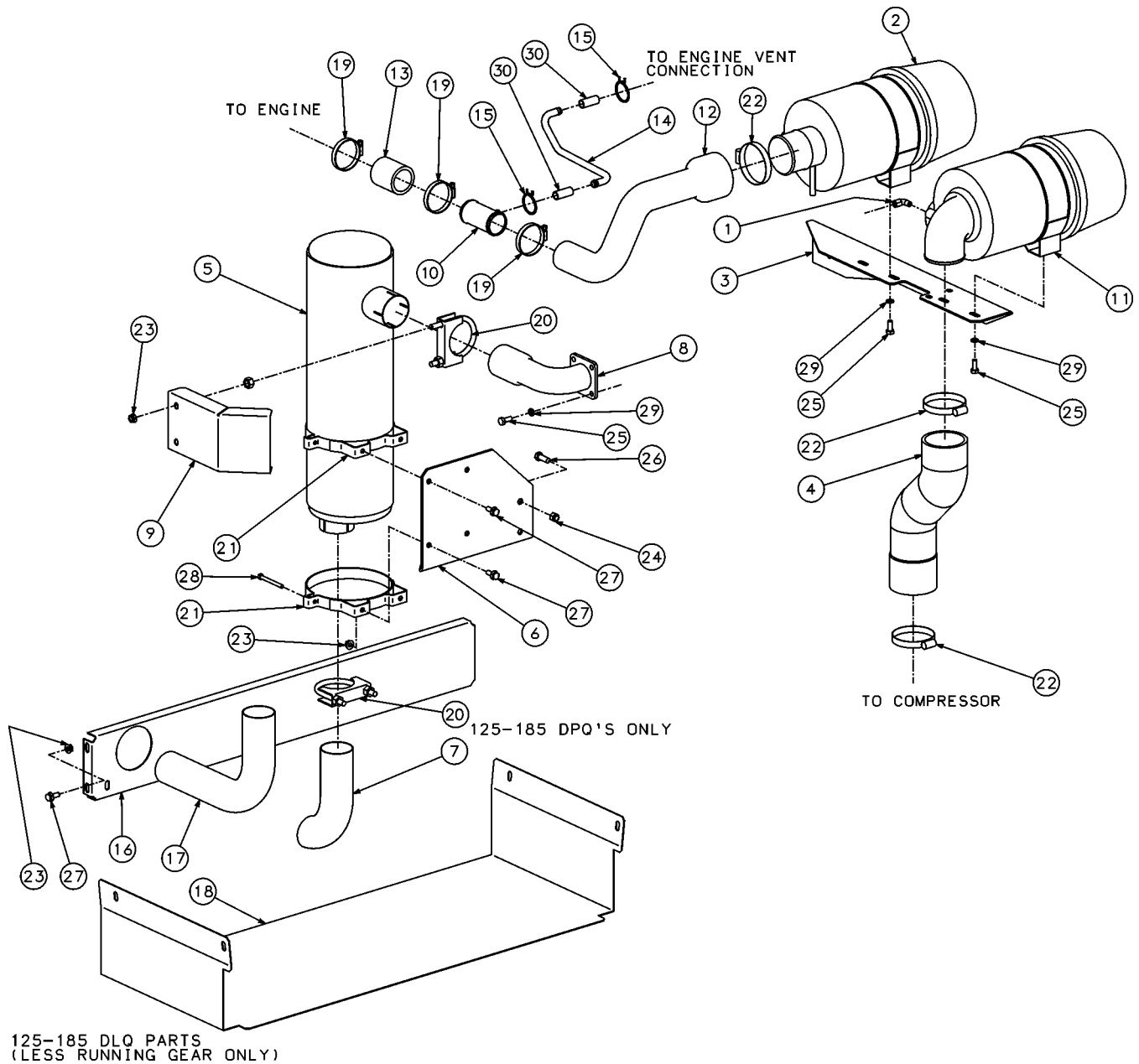
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
33	capscrew, hex 8.8 m10 x 35mm	828010-035	12
34	capscrew, hex 8.8 m12 x 75mm	828012-075	2
35	capscrew, hex 8.8 m16 x 35mm	828016-035	4
36	capscrew, socket hd 3/8-16 x 3/4	828306-075	8
37	capscrew, hex gr5 1/4-20 x 1	829104-100	1
38	capscrew,hex gr5 3/8-16 x 1 1/4	829106-125	8
39	capscrew,hex gr5 1/2-13 x 3	829108-300	2
40	washer, pl-b reg pltd 5/16	838205-071	3
41	washer, pl-b reg pltd 1/2	838208-112	2
42	washer, spr lock-metric pltd m8	838808-200	6
43	washer, spr lock-metric pltd m10	838810-220	12
44	hose, heater 5/8	842115-062	1 ft.
45	nut, hex jam lh pltd 1/4-28	866604-164	1
46	capscrew, ferry head hd pltd 1/4-20 x 1 1/2	867304-150	2
47	nut, hex jam rh pltd 1/4-28	868204-164	1
48	washer, nord-lock pl 5/8"	878610-100	4
49	engine, jd 4024t 66hp 160h	(I)	1
50	compressor & part, dxx102147e	(I)	1

(I) [Consult factory](#) with serial number to determine part number.

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

7.4A AIR INLET AND EXHAUST - PERKINS AND CATERPILLAR MODELS 125, 130 & 185



Section 7 ILLUSTRATIONS AND PARTS

7.4A AIR INLET AND EXHAUST - PERKINS AND CATERPILLAR MODELS 125, 130 & 185

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	elbow, 90m 5/16"tube x 1/8"npt	02250109-423	1
2	filter, air plastic strt inl (I)	02250110-197	1
3	support, air fltrs 185dpq 60hp	02250136-929	1
4	hose, air inl unit 186dpq 60hp	02250136-931	1
5	muffler, jd cat 185dpq 60hp	02250136-942	1
6	support, muff cat 185dpq 60hp	02250136-995	1
7	tube, exhaust outlet cat 185 60hp	02250136-996	1
8	tube, exhaust inlet cat 185 60hp	02250136-997	1
9	shield, heat exhaust 185q cat	02250139-771	1
10	adapter, air inlet eng.breath 185ca	02250140-051	1
11	filter, air 7" plstc 90 non cint. (I)	02250140-440	1
12	hose, air inl fltr 185q 60hp	02250140-875	1
13	hose, air inlet eng 185q 60hp	02250140-876	1
14	tube, engine vent 185dpq pe	02250147-925	1
15	clamp, hose spring 3/4 od ss	02250148-054	2
16	baffle, frm low frt 185 dlq	02250157-075	1
17	elbow, exh outlet cat 185dlq	02250157-090	1
18	baffle, air exhst frt 185dlq	02250158-022	1
19	clamp, hose 1 13/16" x 2 3/4" adj.	040083	3
20	clamp, exhaust 2-1/2"	043203	2
21	band, mounting 6 1/2"	043370	2
22	clamp, hose 2-13/16 to 3-3/4"	250018-550	3
23	nut, hex f pltd 5/16-18	825305-283	10
24	nut, hex locking 3/8-16	825506-198	2
25	capscrew, hex 8.8 m8 x 20mm	828008-020	8
26	capscrew, hex gr5 3/8-16 x 1	829106-100	2
27	screw, hex ser washer 5/16-18 x 3/4	829705-075	8
28	screw, mach-hex 1/4-20 x 2 1/2	830104-250	2
29	washer, spr lock-metric pltd m8	838808-200	8
30	hose, heater 1/2"	842115-050	2 ft.

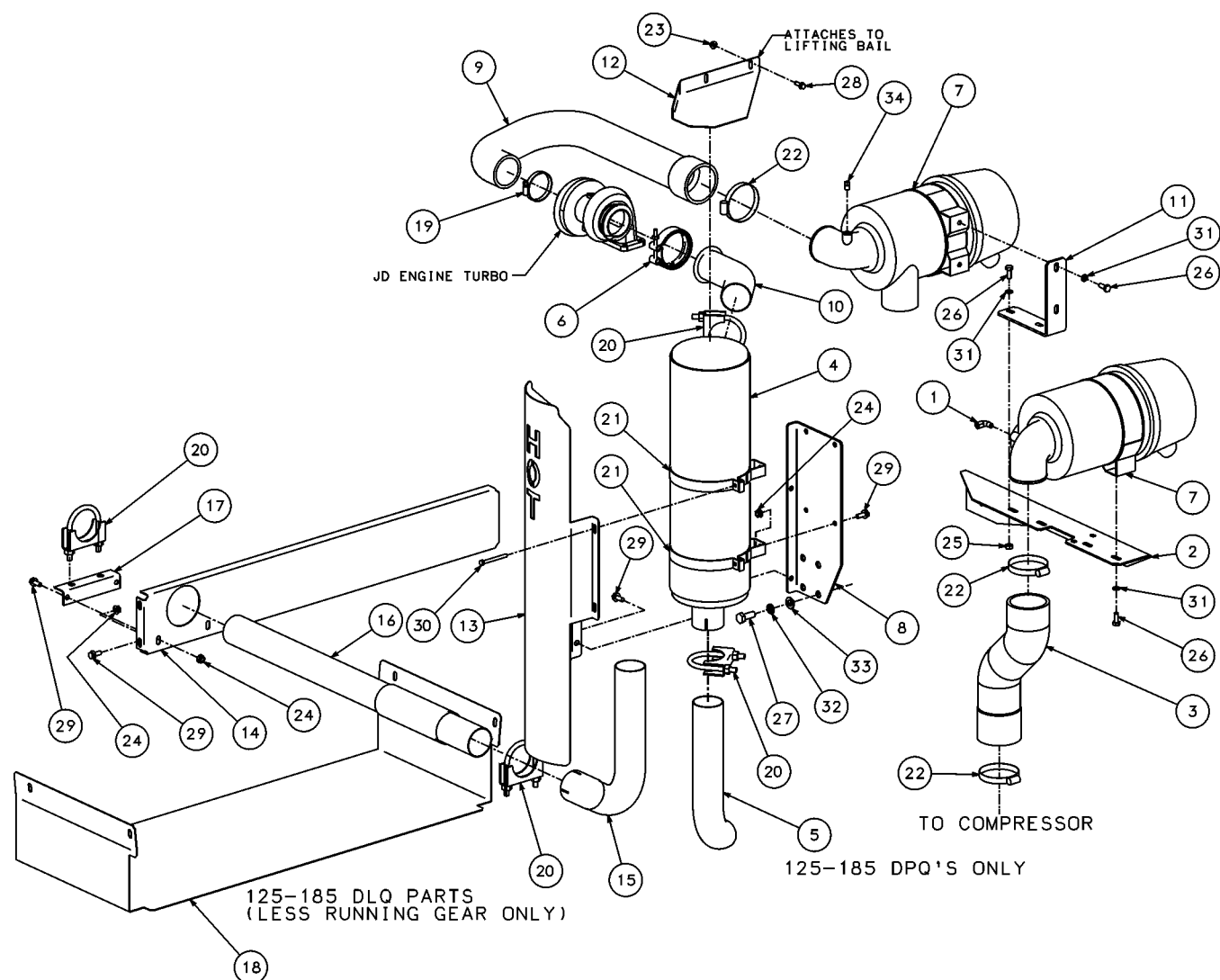
(I) For maintenance on air filter, order replacement element no. 02250102-158, and/or dust ejector valve no. 02250115-271.

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.4B AIR INLET AND EXHAUST - JOHN DEERE MODELS 125, 130, 185, 49HP & 160H



Section 7

ILLUSTRATIONS AND PARTS

7.4B AIR INLET AND EXHAUST - JOHN DEERE MODELS 125, 130, 185, 49HP & 160H

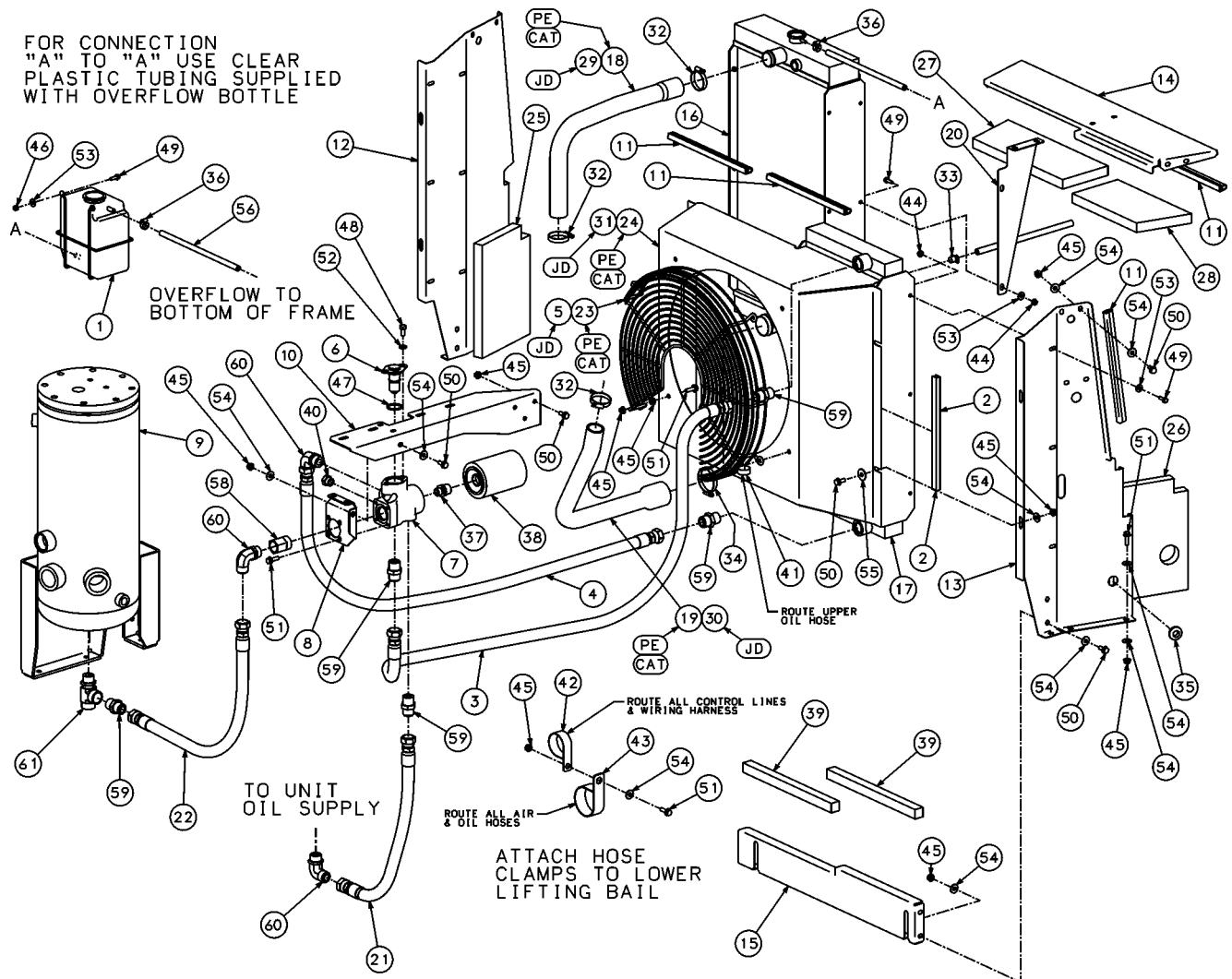
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	elbow, 90m 5/16"tube x 1/8"npt	02250109-423	1
2	support, air fltrs 185dpq 60hp	02250136-929	1
3	hose, air inl unit 186dpq 60hp	02250136-931	1
4	muffler, jd cat 185dpq 60hp	02250136-942	1
5	tube, exhaust outlet 185dpq 60hp	02250136-943	1
6	clamp, v-band jd 4024t 185dpq	02250137-896	1
7	filter, air 7" plstc 90 non cint. (I)	02250140-440	2
8	support, muffler jd 185dpq 60hp	02250143-583	1
9	hose, air inl jd 185dpq 60hp	02250143-584	1
10	tube, exhaust inlet 185dpq jd 60hp	02250143-585	1
11	support, air filter 185 dpq jd eng	02250146-699	1
12	shield, heat muffler top 185jd	02250147-977	1
13	shield, muffler frt mnt 185q jd	02250156-122	1
14	baffle, frm low frt 185 dlq	02250157-075	1
15	elbow , exh outlet 185dlq jd	02250157-081	1
16	tube, exhaust flex 185dlq jd	02250157-082	1
17	angle, exhst supt 185dlq jd	02250157-085	1
18	baffle, air exhst frt 185dlq	02250158-022	1
19	clamp, hose 1 13/16" x 2 3/4" adj.	040083	1
20	clamp, exhaust 2-1/2"	043203	4
21	band, mounting 6 1/2"	043370	2
22	clamp, hose 2-13/16 to 3-3/4"	250018-550	3
23	nut, hex f pltd 1/4-20	825304-236	2
24	nut, hex f pltd 5/16-18	825305-283	10
25	nut, hex metric m8 x 1.25	825908-125	2
26	capscrew, hex 8.8 m8 x 20mm	828008-020	6
27	capscrew, hex 8.8 m12 x 30mm	828012-030	4
28	screw, hex ser washer 1/4-20 x 3/4	829704-075	2
29	screw, hex ser washer 5/16-18 x 3/4	829705-075	12
30	screw, mach-hex 1/4-20 x 2 1/2	830104-250	2
31	washer, spr lock-metric pltd m8	838808-200	6
32	washer, spr lock-metric pltd m12	838812-250	4
33	washer, metric-iso7089- 12	865412-240	4
34	plug, pipe 1/8" 3000# stl plt	866900-005	1

(I) For maintenance on air filter, order replacement element no. 02250102-158, and dust ejector valve no. 02250115-271 (please note quantity of two air filters).

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

7.5 RADIATOR AND COMPRESSOR FLUID COOLING SYSTEM - ALL MODELS



Section 7 ILLUSTRATIONS AND PARTS

7.5 RADIATOR AND COMPRESSOR FLUID COOLING SYSTEM - ALL MODELS

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	bucket, radiator fluid recovery	02250083-466	1
2	channel, extruded rubber "u" .25"w	02250086-448	1 ft.
3	hose, hydparkrimp 3/4" x 72"	02250107-493	1
4	hose, fuel 3/4" x 50" 375dpq	02250108-406	1
5	guard, fan 20" (110-130 & 185 cat)	02250112-141	1
6	element, therm vlv 160deg setting (I)	02250124-404	1
7	manifold, thrm by-pass 185 bdr	02250132-254	1
8	support, manf thrm vlv 185 60hp	02250132-260	1
9	receiver, air oil 10" 185 60hp	02250136-539	1
10	support, air fltrs 185dpq 60hp	02250136-929	1
11	seal, clip-on baffles 185 60hp	02250137-297	4
12	baffle, cooler r.h. 185dpq ca 60hp	02250139-755	1
13	baffle, cooler l.h. 185dpq ca 60hp	02250139-756	1
14	baffle, cooler upper 185dpq ca 60hp	02250139-757	1
15	baffle, cooler lower 185dpq ca 60hp	02250139-758	1
16	radiator, 185dpq ca 60hp	02250139-760	1
17	cooler, oil blower 185dpq 60hp	02250139-761	1
18	hose, rad upper cat 185 60hp	02250139-762	1
19	hose, rad lower cat 185 60hp	02250139-763	1
20	support, cooler rad 185dpq ca 60hp	02250139-768	1
21	hose, hydraulic parkrimp 3/4 x 24	02250139-775	1
22	hose, hydraulic parkrimp 3/4 x 32	02250139-776	1
23	guard, fan 185q 60hp	02250140-186	1
24	shroud, fan 18" dia 185q 60hp cat	02250140-228	1
25	panel, acoustic clg baf rh lower	02250140-235	1
26	panel, acoustic clg baf lh lower	02250140-236	1
27	panel, acoustic top baffle rh	02250140-238	1
28	panel, acoustic top baffle lh	02250140-239	1
29	hose, radiator upper 185jd 60hp	02250143-579	1
30	hose, radiator lower 185jd 60hp	02250143-580	1

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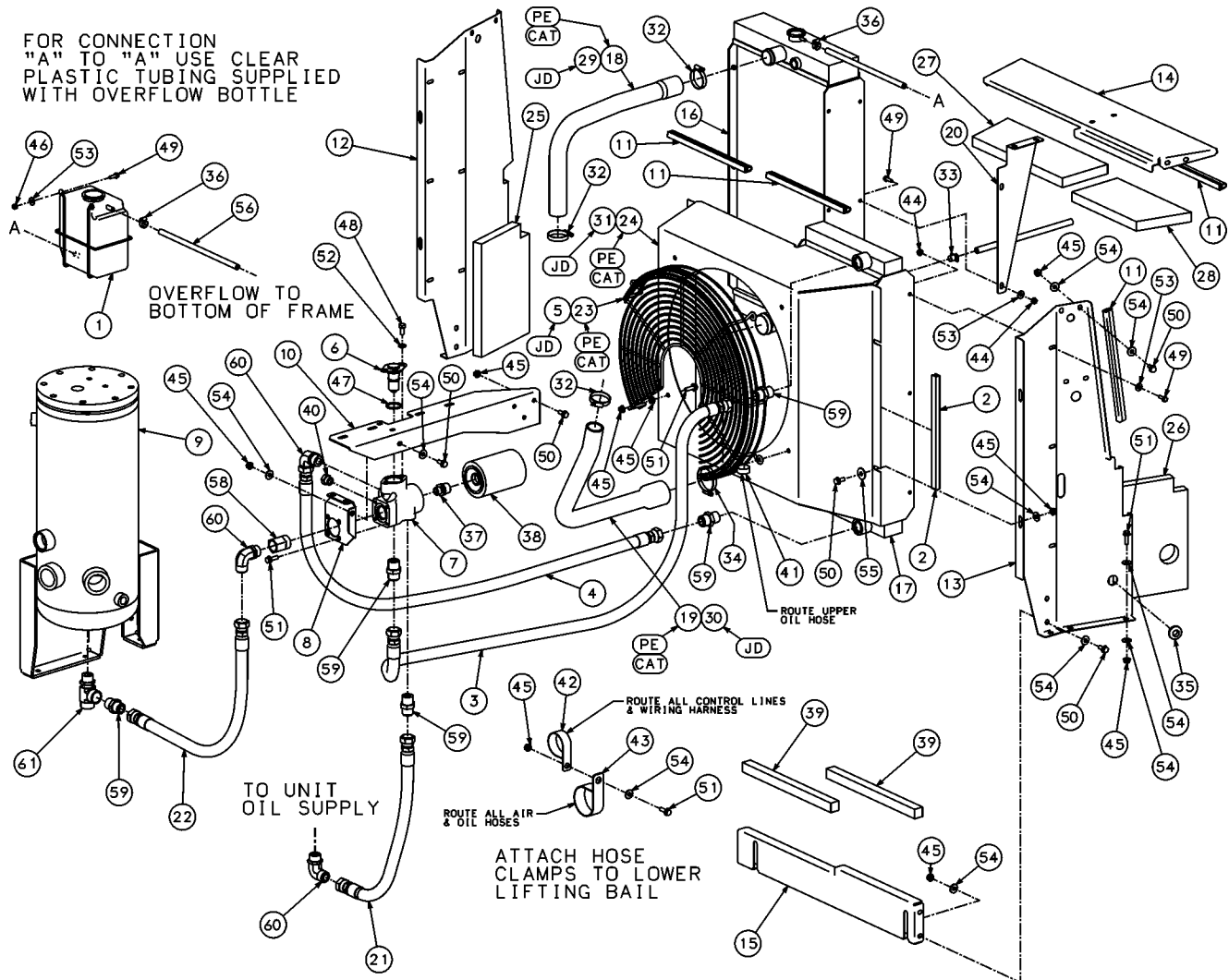
(I) For maintenance on thermal valve, order replacement element no. 02250124-404.

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.5 RADIATOR & COMPRESSOR FLUID COOLING SYSTEM - ALL MODELS



Section 7 ILLUSTRATIONS AND PARTS

7.5 RADIATOR & COMPRESSOR FLUID COOLING SYSTEM - ALL MODELS (CONTINUED)

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
31	shroud, fan 18" 185jd 60hp	02250143-581	1
32	clamp, hose 1 5/16" to 2 1/4" adj.	040014	3
33	drainlock, 1/4"	040061	1
34	clamp, hose 1 13/16" x 2 3/4" adj.	040083	1
35	grommet, rubber 1" hole	040162	1
36	clamp, hose 3/8"	047235	2
37	adapter, oil filter .970-20 x 3/4-16	250025-914	1
38	element, fluid filter (I)	250026-982	1
39	weatherstrip, 1"thick x 1"wide	250041-174	2 ft.
40	plug, straight thread 3/4-16 viton	250042-623	1
41	clamp, hose 5/8" i.d.	408300-005	1
42	clamp, hose 1 13/16" i.d.	408300-009	1
43	clamp, hose 2 3/8" i.d.	408300-010	1
44	nut, hex f pltd 1/4-20	825304-236	2
45	nut, hex f pltd 5/16-18	825305-283	9
46	nut, hex locking 1/4-20	825504-145	1
47	o-ring, viton 1 1/4 x 1/8"	826502-218	1
48	capscrew, hex gr5 3/8-16 x 3/4	829106-075	1
49	screw, hex ser washer 1/4-20 x 3/4	829704-075	3
50	screw, hex ser washer 5/16-18 x 3/4	829705-075	5
51	screw, hex ser washer 5/16-18 x 1	829705-100	4
52	washer, spr lock reg pltd 3/8	837806-094	1
53	washer, pl-b reg pltd 1/4	838204-071	3
54	washer, pl-b reg pltd 5/16	838205-071	10
55	washer, pl-b wide pltd 5/16	838305-071	1
56	hose, fuel line 1/4	842315-025	2 ft.
57	hose, fuel line 5/16	842315-031	1 ft.
58	reducer, str thrd viton 1 x 3/4	870016-012	1
59	connector, straight x jic 1 1/16 x 1 1/16	870112-012	5
60	connector, 90d str x jic 1 1/16 x 1 1/16	870612-012	3
61	tee, straight thd m-rn viton 1 1/16"	871800-106	1

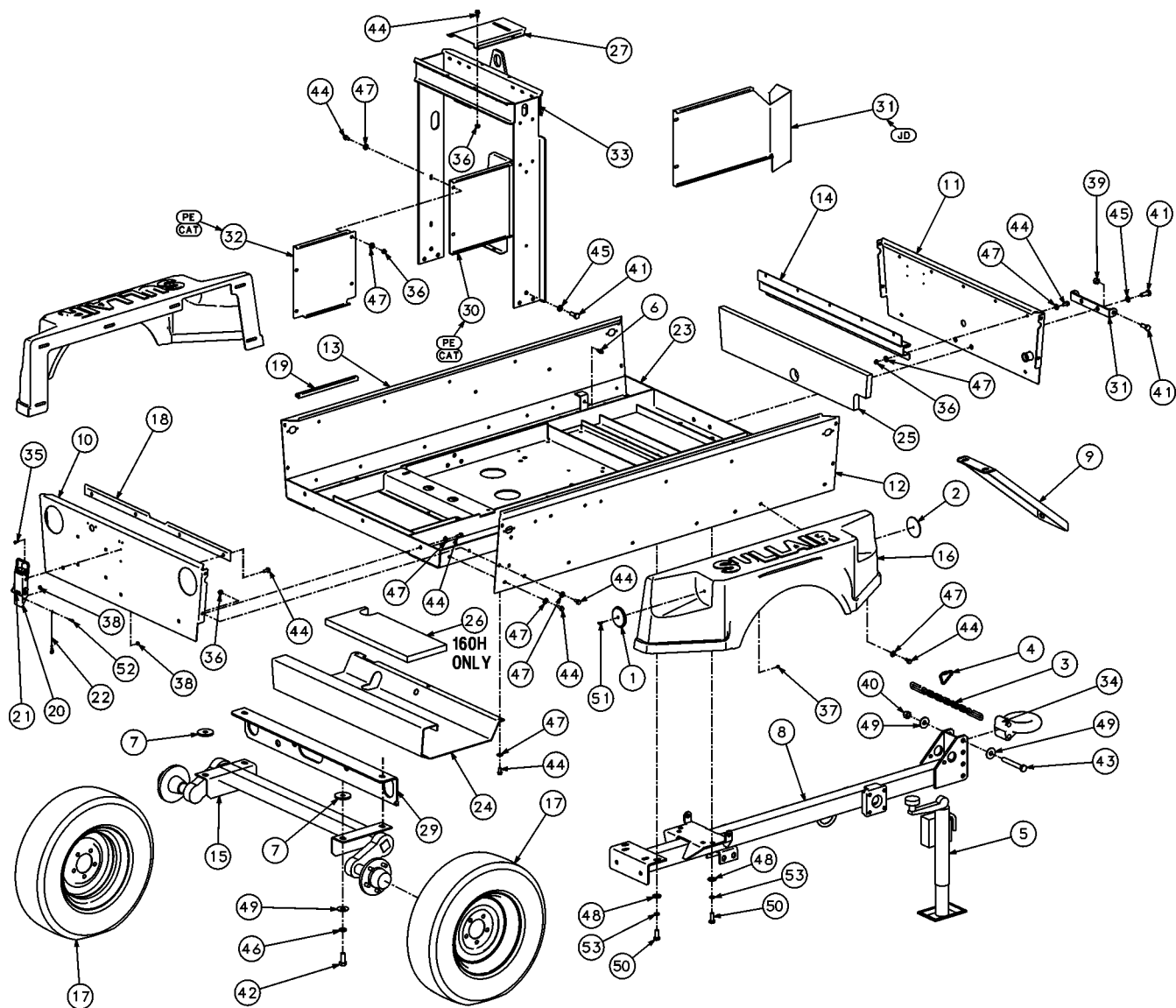
(I) For maintenance on fluid filter, order replacement element kit no. 250028-032.

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.6 FRAME, RUNNING GEAR AND PARTS - ALL MODELS



02250140-871R03

Section 7 ILLUSTRATIONS AND PARTS

7.6 FRAME, RUNNING GEAR AND PARTS - ALL MODELS

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	reflector, red 3" truck-lite	02250052-701	2
2	reflector, yellow 3" truck-lite	02250052-702	2
3	chain, 1/4 x 72 w/2 ez3 hooks	02250094-269	1
4	connector, delta-shaped chain 1/4"	02250100-538	1
5	jack, hd w/pad 185-425 std	02250116-794	1
6	stud, ball gas spring 5/16th x .54l	02250121-515	2
7	washer, snubbing 375 vibration mount	02250125-604	2
8	drawbar, std pivot 185dpq	02250133-864	1
9	support, shipping 185 pivot drbar	02250133-984	1
10	panel, frame rear 185dpq 60hp	02250134-142	1
11	panel, frame frt 185dpq 60hp	02250134-143	1
12	panel, frame lh 185dpq 60hp	02250134-144	1
13	panel, frame rh 185dpq 60hp	02250134-145	1
14	hinge, canopy 185 clam	02250134-494	1
15	axle, torsional 3500 lb 185 std	02250134-853	1
16	fender, plastic 185dpq 60hp	02250134-854	2
17	tire, assy st175/80d13	02250136-005	2
18	support, latch striker 185 60hp	02250136-794	1
19	seal, clip-on baffles 185 60hp	02250137-297	10
20	catch, assembly pinned 185q 60hp	02250139-967	1
21	pin, safety snap 1/4x 2-1/4 ss	02250139-975	1
22	cable, lanyard 1/16x6 loop&eye	02250139-977	1
23	frame assembly, 185q 60hp	02250140-184	1
24	bumper, baffle 185q 60hp	02250140-185	1
25	panel, acoustic frame panel front	02250140-244	1
26	panel, acoustic bumper baffle	02250140-246	1
27	plate, lift bail cover 185	02250140-880	1
28	support, dr-bar swivel 185q	02250141-183	1
29	angle, machine tie down 185q60hp	02250141-345	1
30	panel, toolbox expanded 185pe	02250142-977	1
31	panel, toolbox 185jd 60hp	02250143-807	1
32	panel, toolbox rear 185pe	02250143-986	1
33	bail, lifting assy 185dpq 60hp	02250152-910	1

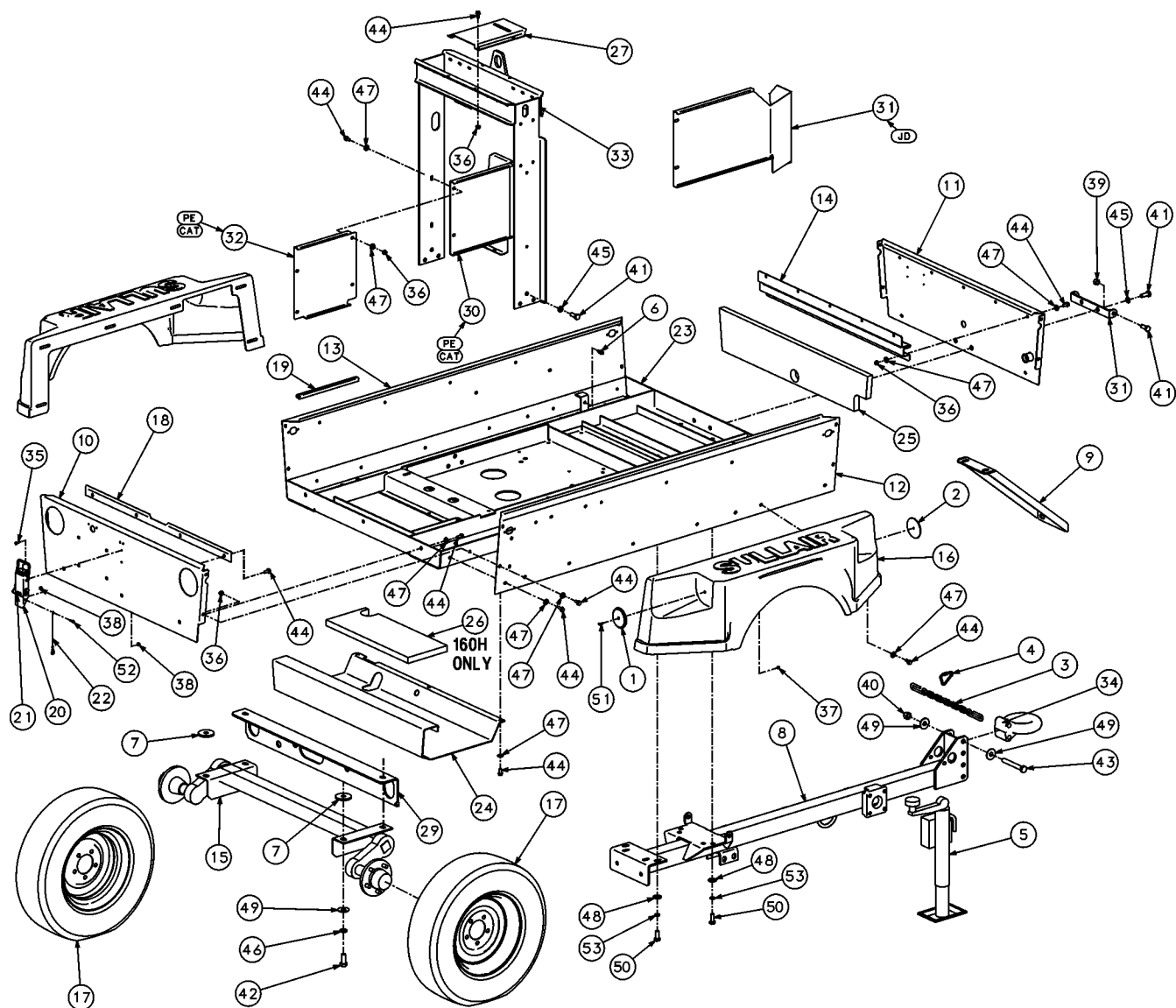
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PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.6 FRAME, RUNNING GEAR AND PARTS - ALL MODELS



02250140-871R03

Section 7

ILLUSTRATIONS AND PARTS

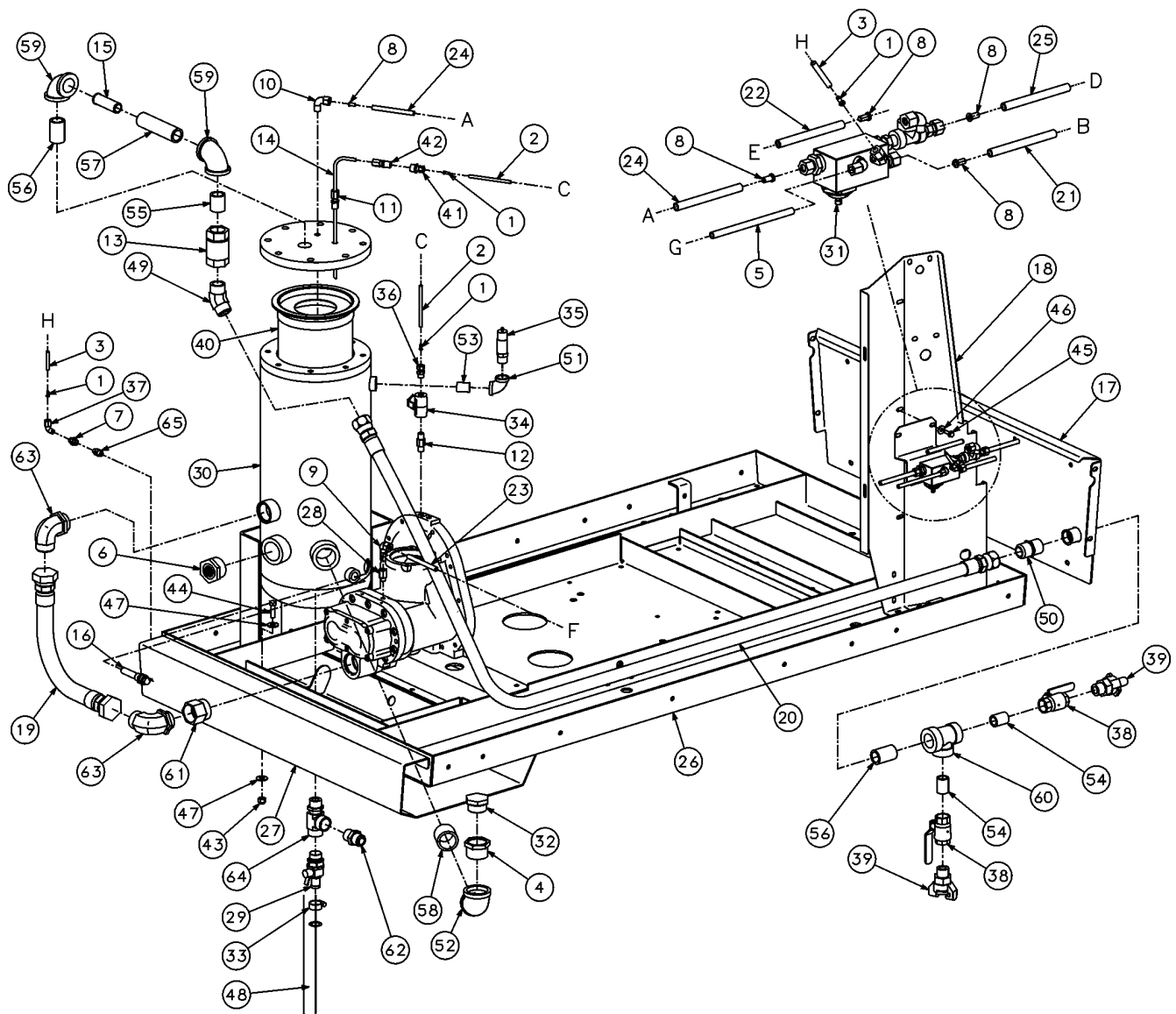
7.6 FRAME, RUNNING GEAR AND PARTS - ALL MODELS (CONTINUED)

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
34	eye, 3" lunette demountable	250002-221	1
35	screw, mach phill #10-24 x 1/2	250025-692	4
36	nut, hex f pltd 5/16-18	825305-283	25
37	nut, hex locking #8-32	825501-070	4
38	nut, hex locking #10-24	825502-083	5
39	nut, hex locking 1/2-13	825508-262	4
40	nut, hex locking 5/8-11	825510-329	2
41	capscrew, hex gr5 1/2-13 x 1 1/4	829108-125	7
42	capscrew, hex gr5 5/8-11 x 1 1/2	829110-150	4
43	capscrew, hex gr5 5/8-11 x 4 3/4	829110-475	2
44	screw, hex ser washer 5/16-18 x 3/4	829705-075	50
45	washer, spr lock reg pltd 1/2	837808-125	5
46	washer, spr lock reg pltd 5/8	837810-156	4
47	washer, pl-b reg pltd 5/16	838205-071	25
48	washer, pl-b reg pltd 1/2	838208-112	8
49	washer, pl-b reg pltd 5/8	838210-112	8
50	capscrew, hex gr5 1/2-13 x 1 1/4 plt	875608-125	8
51	screw, flt phillips 8-32 x 3/4"	875901-075	4
52	screw, rnd phillips 10-24 x 3/4"	876002-075	1
53	washer, nord-lock pl 1/2"	878608-077	8

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

7.7A DISCHARGE SYSTEM AND PARTS - ALL MODELS EXCEPT JOHN DEERE 160H



- A - SHOWN 3/8" OD TUBING BLUE
- B - TO START RUN VALVE (END-TEE) 3/8" OD TUBING RED
- C - SHOWN 1/4" OD TUBING WHITE
- D - TO START RUN VALVE (SIDE) 3/8" OD TUBING ORANGE
- E - TO SPEED CYLINDER 3/8" OD TUBING YELLOW
- F - TO SPEED CYLINDER 3/8" OD TUBING GREEN
- G - TO UNIT AIR FILTER 5/16" OD TUBING WHITE
- H - SHOWN 1/4" OD TUBE BLACK

Section 7

ILLUSTRATIONS AND PARTS

7.7A DISCHARGE SYSTEM AND PARTS - ALL MODELS EXCEPT JOHN DEERE 160H

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	insert, nylon tubing 1/4"od	02250052-841	4
2	tube, nyl .25 od x .040w wht	02250054-860	2 ft.
3	tube, nyl .25 od x .040w blk	02250054-861	5 ft.
4	adapter,receiver oil fill 185dpq	02250064-595	1
5	tube, 5/16 od x .040 wall	02250081-220	1
6	glass, sight oil level 1-1/2" pltd	02250081-779	1
7	conn, female pipe 1/8-27 npt -	02250097-138	1
8	insert, nyl tubing 3/8"od	02250099-052	5
9	elbow, 90 3/8"tube x 1/8"npt m	02250099-622	1
10	elbow, 90 3/8"tube x 1/4"npt m	02250099-626	1
11	connector, tube oil return 1/4 x 1/4	02250108-700	1
12	orifice, .040" x .25m x .25m nptf	02250109-215	1
13	valve, inline check 1" npt ball	02250109-661	1
14	tube, oil siphon 1/4"od 110-185	02250114-091	1
15	orifice, min pressure nylon 9mm	02250121-007	1
16	switch, temp n.c. 250\$sf, single pole	02250133-513	1
17	panel, frame frt 185dpq 60hp	02250134-143	1
18	baffle, cooler l.h. 185dpq ca 60hp	02250139-756	1
19	hose, hydraulic parkrimp 1-1/4 x 18	02250139-774	1
20	hose, hydraulic parkrimp 1" x 72lg	02250139-778	1
21	tbg, nylon-11 3/8"od red	02250139-950	4
22	tbg, nylon-11 3/8"od yellow	02250139-951	2
23	tbg, nylon-11 3/8"od green	02250139-952	2
24	tbg, nylon-11 3/8"od blue	02250139-953	5
25	tbg, nylon-11 3/8"od orange	02250139-954	4
26	frame assembly, 185q 60hp	02250140-184	1
27	bumper, baffle 185q 60hp	02250140-185	1
28	valve, check 1/8 female - male	02250142-248	1
29	valve, drain 1-1/16-12unf o-ring	02250142-844	1
30	tank, receiver air/oil 185q pe	02250142-979	1
31	sub assembly, manf regulator-blowdown 185 (I)	02250148-203	1
32	plug, o-ring boss sae 1 1/4	040029	1

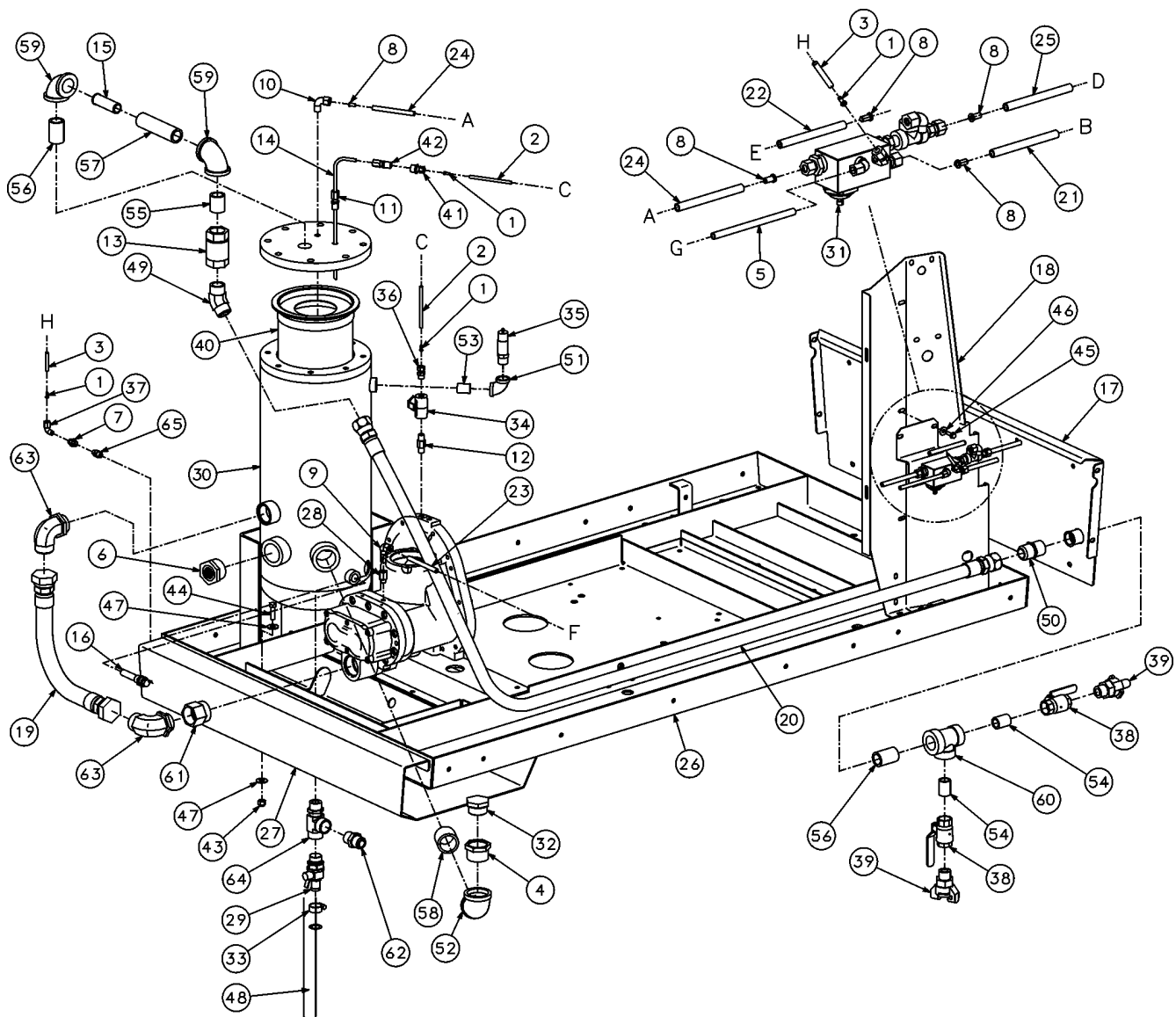
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(I) For complete breakdown of this sub-assembly, refer to Section 7.8A.

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

7.7A DISCHARGE SYSTEM AND PARTS - ALL MODELS EXCEPT JOHN DEERE 160H



- A - SHOWN 3/8" OD TUBING BLUE
- B - TO START RUN VALVE (END-TEE) 3/8" OD TUBING RED
- C - SHOWN 1/4" OD TUBING WHITE
- D - TO START RUN VALVE (SIDE) 3/8" OD TUBING ORANGE
- E - TO SPEED CYLINDER 3/8" OD TUBING YELLOW
- F - TO SPEED CYLINDER 3/8" OD TUBING GREEN
- G - TO UNIT AIR FILTER 5/16" OD TUBING WHITE
- H - SHOWN 1/4" OD TUBE BLACK

Section 7

ILLUSTRATIONS AND PARTS

7.7A DISCHARGE SYSTEM AND PARTS - ALL MODELS EXCEPT JOHN DEERE 160H (CONTINUED)

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
33	clamp, hose 13/16" to 1-1/2"	040513	1
34	strainer, v-type 300psix1/4 (I)	241771	1
35	valve, pressure relief 200 psig	250006-938	1
36	connector, 1/4" tube x 1/4" npt	250018-428	1
37	elbow, 90 1/4" tube x 1/8" npt	250018-429	1
38	valve, ball 3/4" service	250019-865	2
39	coupling, 3/4" male npt am7	250031-648	2
40	element, sep-fin 10 25/30 (II)	250034-143	1
41	connector, fem 1/4" x 1/4" npt	250041-084	1
42	connector, tube-m 1/4" x 1/4"	810204-025	1
43	nut, hex locking 3/8-16	825506-198	2
44	capscrew, hex gr5 3/8-16 x 1 1/4	829106-125	2
45	screw, hex ser washer 1/4-20 x 3/4	829704-075	2
46	washer, pl-b reg pltd 1/4	838204-071	2
47	washer, pl-b reg pltd 3/8	838206-071	4
48	hose, heater 3/4	842115-075	1 ft.
49	elbow, 37fl 45m 1 x 1	860016-100	1
50	connector, 37 fl/mpt pltd 1 x 1	860116-100	1
51	elbow, pipe 90 deg plt 1/2"	866215-020	1
52	elbow, pipe 90 deg plt 1 1/2"	866215-060	1
53	nipple, pipe-xs plt 1/2 x cl	866408-000	1
54	nipple, pipe-xs plt 3/4 x cl	866412-000	2
55	nipple, pipe-xs plt 1 x cl	866416-000	1
56	nipple, pipe-xs plt 1 x 2	866416-020	2
57	nipple, pipe-xs plt 1 x 5	866416-050	1
58	nipple, pipe-xs plt 1 1/2 x cl	866424-000	1
59	elbow, pipe 90 deg 300# plt 1"	867030-040	2
60	tee, reducing pltd 1 x 3/4 x 3/4	868604-033	1
61	reducer, str thrd viton 1 1/2 x 1 1/4	870024-020	1
62	connector, straight x jic 1 1/16 x 1 1/16	870112-012	1
63	connector, 90d str x jic 1 5/8 x 1 5/8	870620-020	2
64	tee, straight thd m-rn viton 1 1/16"	871800-106	1
65	adapter, pipe male 7/16 orng x 1/8	877202-012	1

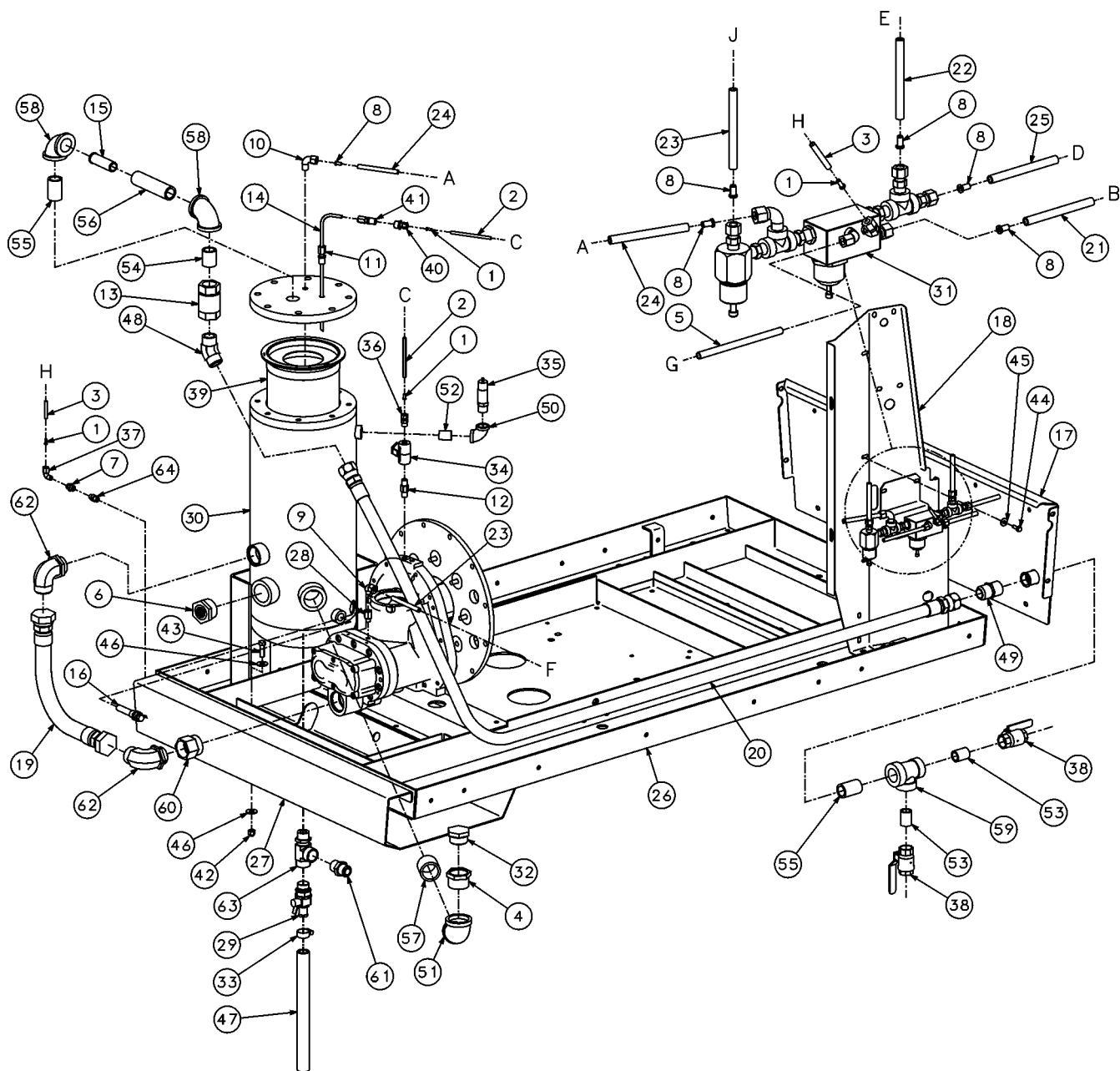
(I) For maintenance on v-type strainer no. 241771, order repair kit no. 241772.

(II) For maintenance on air/fluid separator no. 250034-143, order replacement element kit no. 250034-112.

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

7.7B DISCHARGE SYSTEM AND PARTS - JOHN DEERE MODEL 160H



- A - SHOWN 3/8" OD TUBING BLUE
- B - TO START RUN VALVE (END-TEE) 3/8" OD TUBING RED
- C - SHOWN 1/4" OD TUBING WHITE
- D - TO HIGH LOW VALVE (END PORT) 3/8" OD TUBING ORANGE
- E - TO SPEED CYLINDER 3/8" OD TUBING YELLOW
- G - TO UNIT AIR FILTER 5/16" OD TUBING WHITE
- H - SHOWN 1/4" OD TUBE BLACK
- J - TO HIGH LOW VALVE (SIDE PORT) 3/8" OD TUBING GREEN

Section 7 ILLUSTRATIONS AND PARTS

7.7B DISCHARGE SYSTEM AND PARTS - JOHN DEERE MODEL 160H

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	insert, nylon tubing 1/4"od	02250052-841	4
2	tube, nyl .25 od x .040w wht	02250054-860	2 ft
3	tube, nyl .25 od x .040w blk	02250054-861	5 ft.
4	adapter, receiver oil fill 185dpq	02250064-595	1
5	tube ,5/16 od x .040 wall	02250081-220	1
6	glass, sight oil level 1-1/2" pltd	02250081-779	1
7	conn, female pipe 1/8-27 npt -	02250097-138	1
8	insert, nyl tubing 3/8"od	02250099-052	5
9	elbow, 90 3/8"tube x 1/8"npt m	02250099-622	1
10	elbow, 90 3/8"tube x 1/4"npt m	02250099-626	1
11	connector, tube oil return 1/4 x 1/4	02250108-700	1
12	orifice, .040" x .25m x .25m nptf	02250109-215	1
13	valve, inline check 1" npt ball	02250109-661	1
14	tube, oil siphon 1/4"od 110-185	02250114-091	1
15	orifice, min pressure nylon 9mm	02250121-007	1
16	switch, temp n.c. 250\$sf, single pole	02250133-513	1
17	panel, frame frt 185dpq 60hp	02250134-143	1
18	baffle, cooler l.h. 185dpq ca 60hp	02250139-756	1
19	hose, hydraulic parkrimp 1-1/4 x 18	02250139-774	1
20	hose, hydraulic parkrimp 1" x 72lg	02250139-778	1
21	tbg, nylon-11 3/8"od red	02250139-950	4
22	tbg, nylon-11 3/8"od yellow	02250139-951	2
23	tbg ,nylon-11 3/8"od green	02250139-952	2
24	tbg, nylon-11 3/8"od blue	02250139-953	2
25	tbg, nylon-11 3/8"od orange	02250139-954	4
26	frame assembly, 185q 60hp	02250140-184	1
27	bumper, baffle 185q 60hp	02250140-185	1
28	valve, check 1/8 female - male	02250142-248	1
29	valve, drain 1-1/16-12unf o-ring	02250142-844	1
30	tank, receiver air/oil 185q pe	02250142-979	1
31	sub assembly, manf reg/blwdn 160hdpq-jd (I)	02250153-397	1
32	plug, o-ring boss sae 1 1/4	040029	1

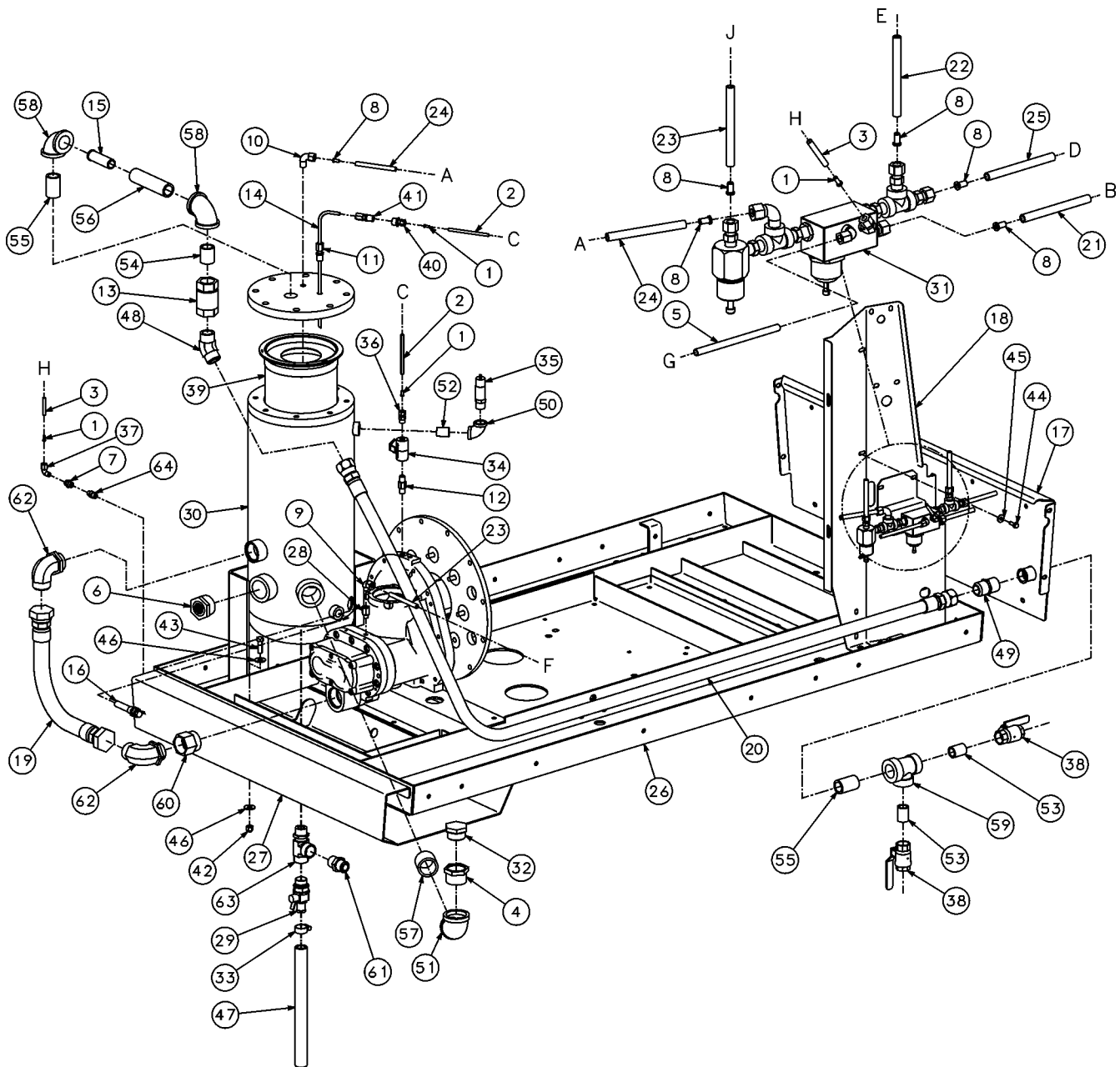
Continued on page 73

(I) For complete breakdown of this sub-assembly, refer to Section 7.8B.

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

7.7B DISCHARGE SYSTEM AND PARTS - JOHN DEERE MODEL 160H



- A - SHOWN 3/8" OD TUBING BLUE
- B - TO START RUN VALVE (END-TEE) 3/8" OD TUBING RED
- C - SHOWN 1/4" OD TUBING WHITE
- D - TO HIGH LOW VALVE (END PORT) 3/8" OD TUBING ORANGE
- E - TO SPEED CYLINDER 3/8" OD TUBING YELLOW
- G - TO UNIT AIR FILTER 5/16" OD TUBING WHITE
- H - SHOWN 1/4" OD TUBE BLACK
- J - TO HIGH LOW VALVE (SIDE PORT) 3/8" OD TUBING GREEN

Section 7

ILLUSTRATIONS AND PARTS

7.7B DISCHARGE SYSTEM AND PARTS - JOHN DEERE MODEL 160H (CONTINUED)

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
33	clamp, hose 13/16" to 1-1/2"	040513	1
34	strainer, v-type 300psix1/4 (II)	241771	1
35	valve, pressure relief 200 psig	250006-938	1
36	connector, 1/4" tube x 1/4" npt	250018-428	1
37	elbow, 90 1/4" tube x 1/8" npt	250018-429	1
38	valve, ball 3/4" service	250019-865	2
39	element, sep-fin 10 25/30 (III)	250034-143	1
40	connector, fem 1/4t x 1/4 npt	250041-084	1
41	connector, tube-m 1/4 x 1/4	810204-025	1
42	nut, hex locking 3/8-16	825506-198	2
43	capscrew, hex gr5 3/8-16 x 1 1/4	829106-125	2
44	screw, hex ser washer 1/4-20 x 3/4	829704-075	2
45	washer, pl-b reg pltd 1/4	838204-071	2
46	washer, pl-b reg pltd 3/8	838206-071	4
47	hose, heater 3/4	842115-075	1 ft.
48	elbow, 37fl 45m 1 x 1	860016-100	1
49	connector, 37 fl/mpt pltd 1 x 1	860116-100	1
50	elbow, pipe 90 deg plt 1/2"	866215-020	1
51	elbow, pipe 90 deg plt 1 1/2"	866215-060	1
52	nipple, pipe-xs plt 1/2 x cl	866408-000	1
53	nipple, pipe-xs plt 3/4 x cl	866412-000	2
54	nipple, pipe-xs plt 1 x cl	866416-000	1
55	nipple, pipe-xs plt 1 x 2	866416-020	2
56	nipple, pipe-xs plt 1 x 5	866416-050	1
57	nipple, pipe-xs plt 1 1/2 x cl	866424-000	1
58	elbow, pipe 90 deg 300# plt 1"	867030-040	2
59	tee, reducing pltd 1 x 3/4 x 3/4	868604-033	1
60	reducer, str thrd viton 1 1/2 x 1 1/4	870024-020	1
61	connector, straight x jic 1 1/16 x 1 1/16	870112-012	1
62	connector, 90d str x jic 1 5/8 x 1 5/8	870620-020	2
63	tee, straight thd m-rn viton 1 1/16"	871800-106	1
64	adapter, pipe male 7/16 orng x 1/8	877202-012	1

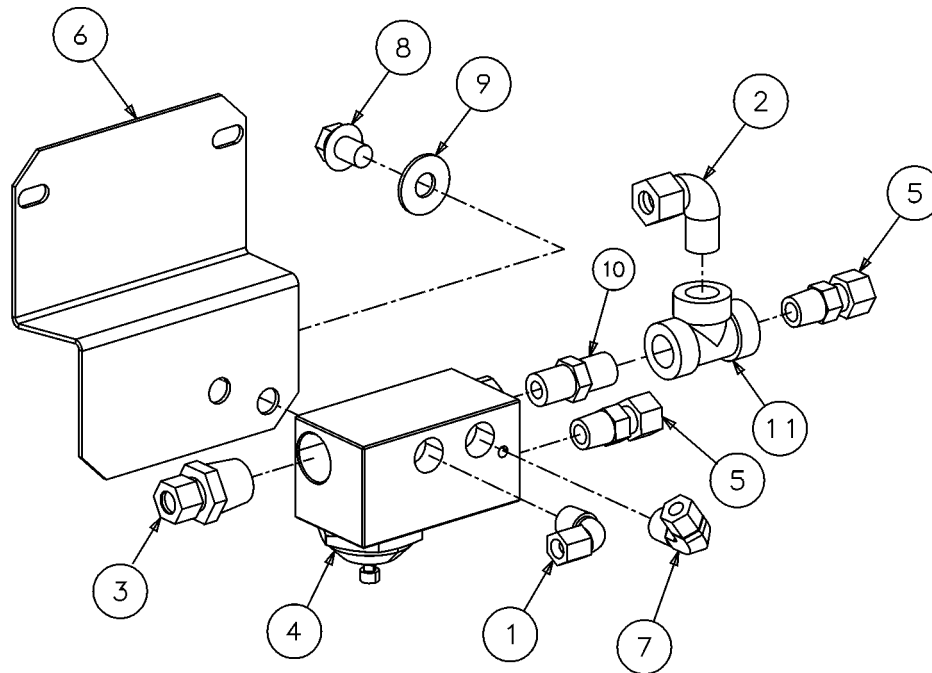
(II) For maintenance on v-type strainer no. 241771, order repair kit no. 241772.

(III) For maintenance on air/fluid separator no. 250034-143, order replacement element kit no. 250034-112.

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

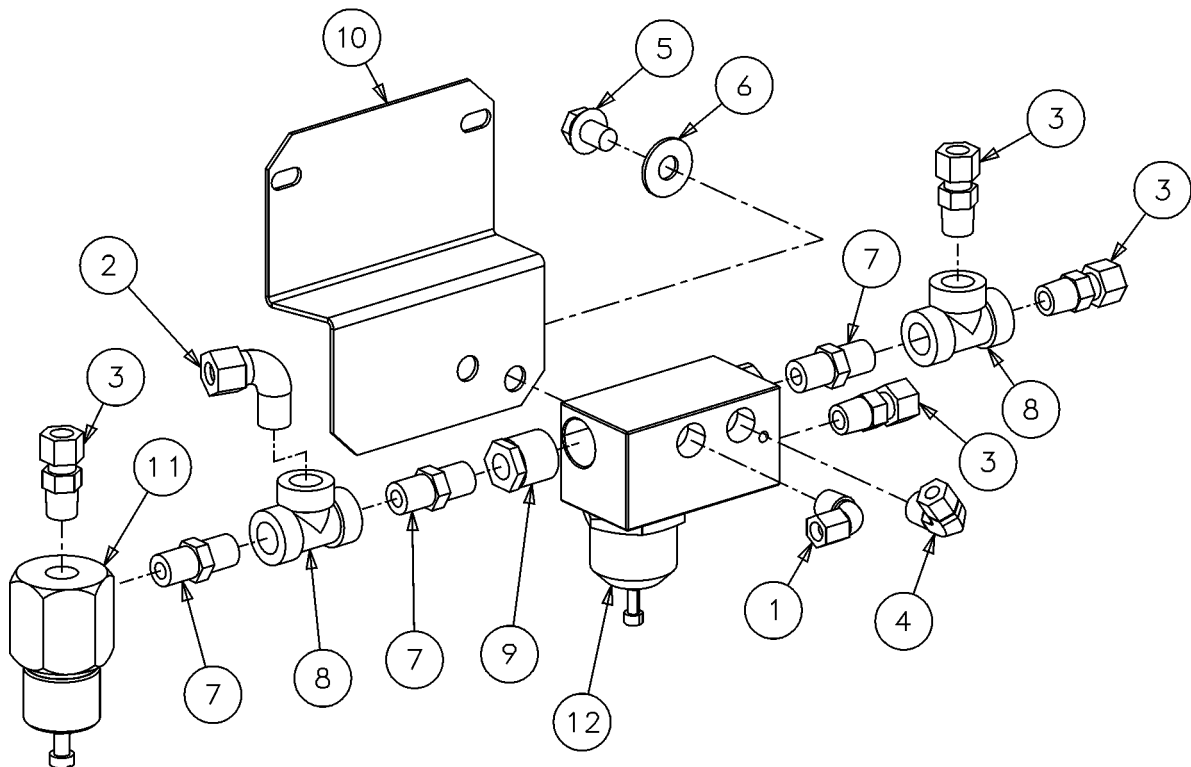
7.8A REGULATOR VALVE/BLOWDOWN VALVE ASSEMBLY - ALL MODELS EXCEPT JOHN DEERE 160H



REFERENCE:
SUB-ASSEMBLY P/N 0 2250 148-20 3

02250148-570R04

7.8B REGULATOR VALVE/BLOWDOWN VALVE ASSEMBLY - JOHN DEERE MODEL 160H



REFERENCE:
SUB-ASSEMBLY P/N 0 2250 153-39 7

02250153-405R01

Section 7

ILLUSTRATIONS AND PARTS

7.8A REGULATOR VALVE/BLOWDOWN VALVE ASSEMBLY - ALL MODELS EXCEPT JOHN DEERE 160H

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	elbow, 90d 5/16" tube x 1/4"npt	02250081-218	1
2	elbow, 90 3/8"tube x 1/4"npt m	02250099-626	1
3	connector, 3/8tube x 1/2npt	02250129-957	1
4	manifold, regulator blowdown 185 (I)	02250146-046	1
5	connector, 3/8 tube x 1/4npt	02250148-188	2
6	support, manifold reg. bd 185q	02250148-190	1
7	elbow, 90 1/4t pls x 1/4 npt m	250018-430	1
8	screw, hex ser washer 3/8-16 x 1/2	829706-050	2
9	washer, pl-b reg pltd 3/8	838206-071	2
10	nipple, pipe-hex 1/4 x 1/4	860404-025	1
11	tee, pipe 150# plt 1/4	866815-010	1

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

7.8B REGULATOR VALVE/BLOWDOWN VALVE ASSEMBLY - JOHN DEERE MODEL 160H

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	elbow, 90d 5/16" tube x 1/4"npt	02250081-218	1
2	elbow, 90 3/8"tube x 1/4"npt m	02250099-626	1
3	connector, 3/8 tube x 1/4npt	02250148-188	4
4	elbow, 90 1/4t pls x 1/4 npt m	250018-430	1
5	screw, hex ser washer 3/8-16 x 1/2	829706-050	2
6	washer, pl-b reg pltd 3/8	838206-071	2
7	nipple, pipe-hex 1/4 x 1/4	860404-025	3
8	tee, pipe 150# plt 1/4	866815-010	2
9	bushing, red pltd 1/2 x 1/4	867102-010	1
10	support, manifold reg. bd 185q	02250148-190	1
11	valve, pressure regulator (II)	250017-280	1
12	manifold, press reg/bd 150psi 185h	02250151-201	1

(I) For maintenance on regulator blowdown manifold no. 02250146-046, order repair kit no. 02250147-737.

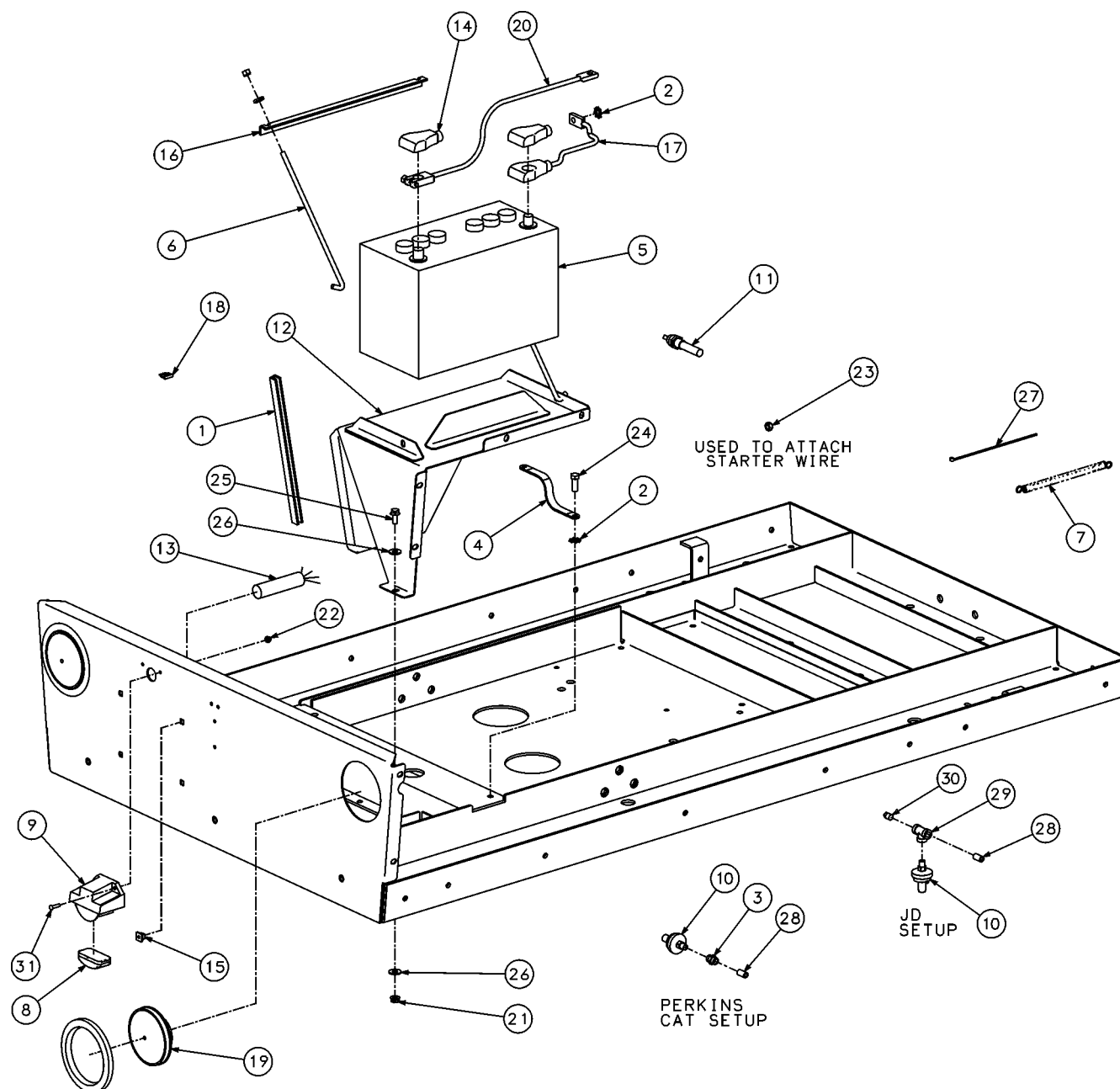
(II) For maintenance on pressure regulator no. 041517, order repair kit no. 041742.

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.9 ELECTRICAL PARTS - ALL MODELS



Section 7 ILLUSTRATIONS AND PARTS

7.9 ELECTRICAL PARTS - ALL MODELS

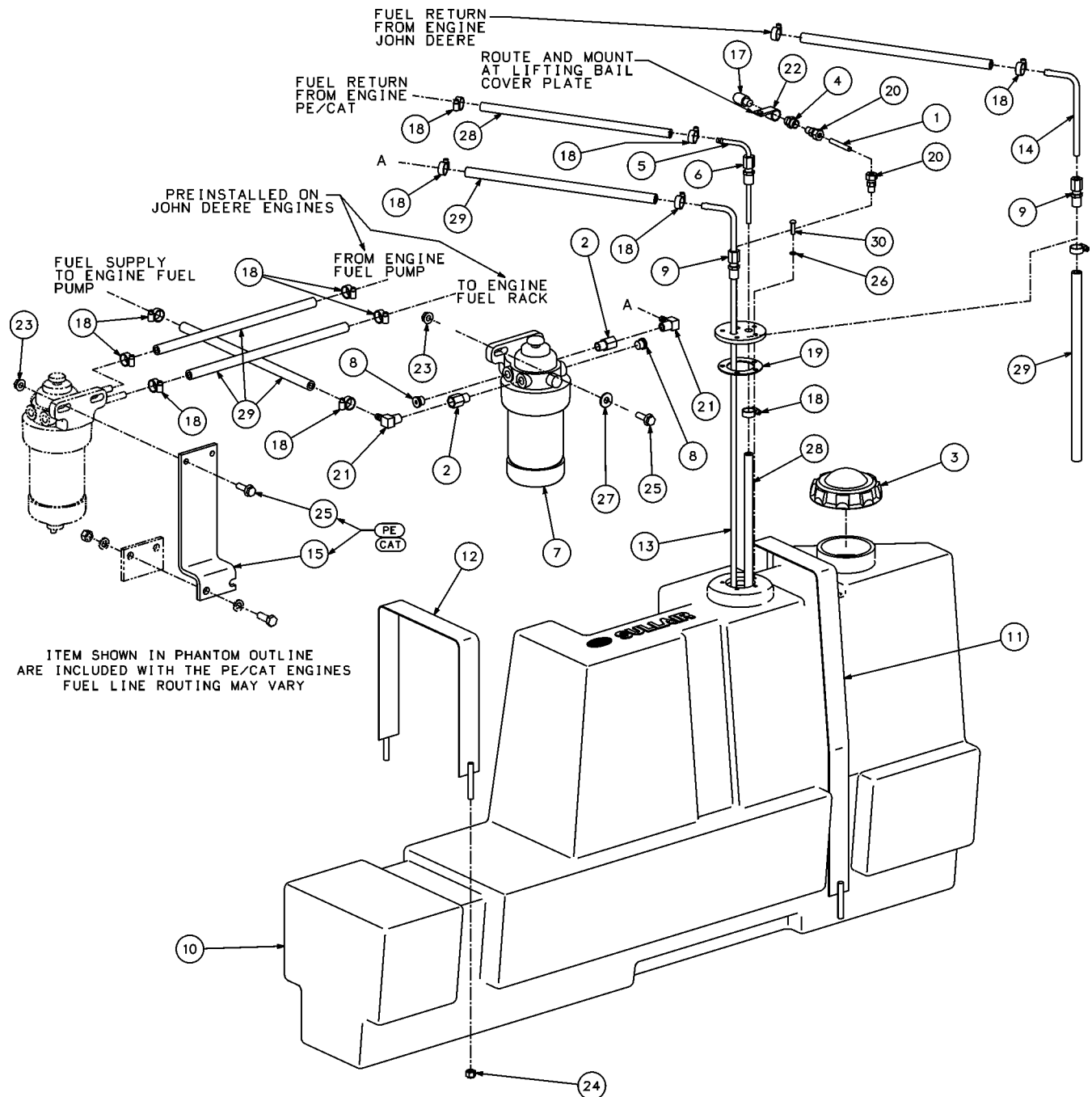
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	channel, extruded rubber "u" .25"w	02250086-448	1 ft.
2	washer, external serrated m10	02250092-169	2
3	conn, female pipe 1/8-27 npt	02250097-138	1
4	cable, ground 4-gauge strap	02250101-258	1
5	battery, c30h 12 volt	02250104-192	1
6	hold-down, battery 11" j-bolt	02250104-193	2
7	spring, extension .50 dia 30 lbs	02250110-529	1
8	lamp, license plate std	02250119-658	1
9	bracket, license plate lamp	02250119-678	1
10	switch, engine oil pressure n.o.	02250130-668	1
11	switch, temp n.c. 250\$sf, single pole	02250133-513	1
12	tray, battery 185dpq 60hp	02250137-492	1
13	harness, wire std lt 4-wire 185q 60hp	02250139-964	1
14	boot, battery terminal	041561	2
15	nut, plastic square license plate	250006-076	4
16	angle, hold-down battery	250019-104	1
17	cable, batt 0 ga x 15" black	250019-480	1
18	fuse, blade type atc 30amp	250023-996	1
19	lamp, tail/turn/stop (shock mtg)	250028-415	2
20	cable, batt 0 ga x 54 red	250030-047	1
21	nut, hex f pltd 5/16-18	825305-283	1
22	nut, hex locking #10-24	825502-083	1
23	nut, hex metric m8 x 1.25	825908-125	1
24	capscrew, hex gr5 3/8-16 x 1	829106-100	1
25	screw, hex ser washer 5/16-18 x 3/4	829705-075	7
26	washer, pl-b reg pltd 5/16	838205-071	10
27	wrap, tie nylon tf4-8	843200-025	1
28	nipple, pipe-xs plt 1/8 x cl	866402-000	2
29	tee, pipe 150# plt 1/8	866815-005	1
30	plug, pipe 1/8" 3000# stl plt	866900-005	1
31	screw, rnd phillips 10-24 x 3/4"	876002-075	2

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.10 FUEL TANK AND PARTS - ALL MODELS



02250141-107R03

Section 7 ILLUSTRATIONS AND PARTS

7.10 FUEL TANK AND PARTS - ALL MODELS

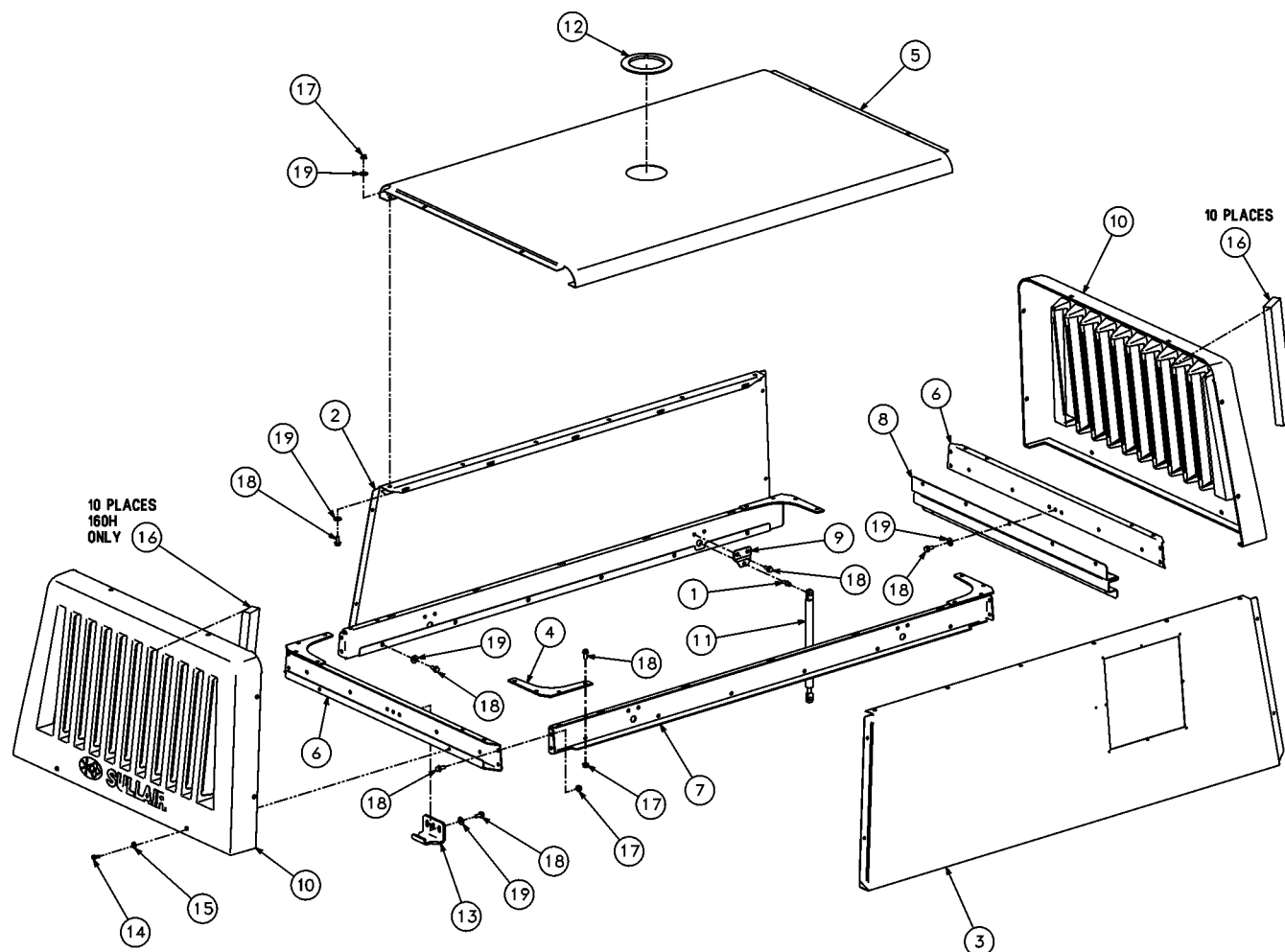
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	tube, nyl .25 od x .040w blk	02250054-861	2 ft.
2	adapter, 1/2str oring x 1/4 fnpt	02250075-714	2
3	cap, fuel fill buttress thread	02250094-791	1
4	conn, female pipe 1/8-27 npt	02250097-138	1
5	tube, fuel return 1/4" jd 185q	02250102-573	1
6	connector, tube oil return 1/4 x 1/4	02250108-700	1
7	filter, ass'y fuel/water sep (I)	02250118-494	1
8	plug, fuel/water sep 1/2-20 unf	02250118-524	2
9	connector, tube oil return 5/16x1/4	02250118-809	1
10	tank, fuel 20 gal 185dpq 60hp	02250132-591	1
11	strap, hold down fuel frt 60hp	02250137-493	1
12	strap, holddown fuel rear 60hp	02250137-494	1
13	tube, fuel pick-up 185dpq 60hp	02250139-885	1
14	tube, fuel return 185dpq jd	02250139-886	1
15	support, fuel fltr perkins 185q	02250139-916	1
16	adapter, fuel pickup 185 60hp	02250152-163	1
17	silencer, exhaust 1/8npt tm-18w70 micron	02250152-316	1
18	clamp, hose 3/8"	047235	11
19	gasket, fuel gauge neoprene	250004-752	1
20	conn, 1/4" tube x 1/8" npt	250018-427	2
21	elbow, 5/16"hose x 1/4"npt	406615	2
22	clamp, hose 9/16" id	408300-001	1
23	nut, hex f pltd 5/16-18	825305-283	4
24	nut, hex locking 5/16-18	825505-166	4
25	screw, hex ser washer 5/16-18 x 1	829705-100	4
26	washer, spr lock reg pltd #10	837802-047	5
27	washer, pl-b reg pltd 5/16	838205-071	2
28	hose, fuel line 1/4	842315-025	4 ft.
29	hose, fuel line 5/16	842315-031	4 ft.
30	screw, rnd phillips 10-24 x 3/4"	876002-075	5

(I) For maintenance on fuel/water separator assembly filter no. 02250118-494, order replacement element no. 02250118-495.

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

7.11 CANOPY, ACOUSTICAL PANELS AND PARTS - ALL MODELS



Section 7

ILLUSTRATIONS AND PARTS

7.11 CANOPY, ACOUSTICAL PANELS AND PARTS - ALL MODELS

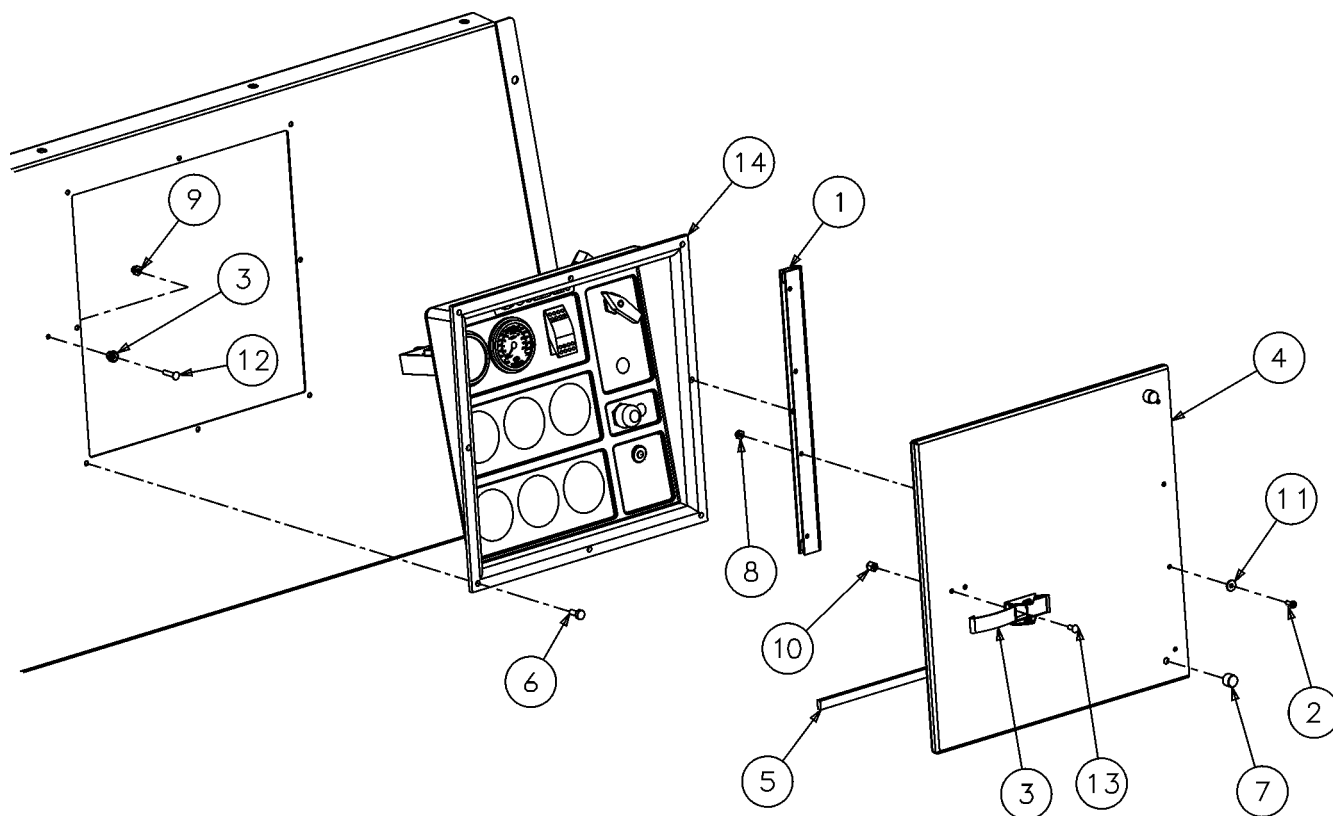
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	stud, ball gas spring 5/16th x .54l	02250121-515	2
2	panel, canopy side rh 185 clam	02250134-135	1
3	panel, canopy side lh 185 clam	02250134-136	1
4	gussett, can frm supt 185 clam	02250134-137	4
5	panel, canopy top 185 clam	02250134-138	1
6	channel, canopy supt frt-r 185 clam	02250134-140	2
7	channel, canopy supt sides 185 clam	02250134-141	2
8	hinge, canopy 185 clam	02250134-494	1
9	support, gas sprng can 185 60hp	02250134-568	2
10	louver, canopy ends 185q 60hp	02250134-713	2
11	spring, gas canopy 900n 185 60hp	02250137-298	2
12	grommet, rubber 5.75 od 185 60hp	02250138-688	1
13	striker, latch 185 canopy	02250139-985	1
14	screw, shldr 1/4-20 x 1/4 ss	02250142-100	16
15	washer, flat 5/16 x 11/16 ss black	02250142-101	16
16	panel, accust louvers 185	02250155-717	20
17	nut, hex f pltd 5/16-18	825305-283	36
18	screw, hex ser washer 5/16-18 x 3/4	829705-075	60
19	washer, pl-b reg pltd 5/16	838205-071	44

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.12 INSTRUMENT PANEL, PANEL DOOR AND MOUNTING PARTS - ALL MODELS



02250155-950R00

Section 7 ILLUSTRATIONS AND PARTS

7.12 INSTRUMENT PANEL, PANEL DOOR AND MOUNTING PARTS - ALL MODELS

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	hinge, instrument panel door 185q-8f	02250103-623	1
2	screw, phil pan hd #6-32 x3/8	02250112-009	4
3	catch, locking instrument panel	02250125-511	1
4	door, instrument panel 185 60hp	02250138-181	1
5	weatherstrip, 3/16 x 3/8	250022-436	3 ft.
6	screw, mach phill #10-24 x 1/2	250025-692	8
7	bumper, rubber 1/2 dia	250035-095	3
8	nut, hex locking #6-32	825500-102	4
9	nut, hex locking #8-32	825501-070	1
10	nut, acorn pltd #8-32	825615-002	2
11	washer, pl-b reg pltd #6	838200-045	4
12	screw, flt phillips 8-32 x 3/4"	875901-075	1
13	screw, rnd phillips 8-32 x 3/8"	876001-038	2
14	pnl, instrument panel & parts	See Table Below	1

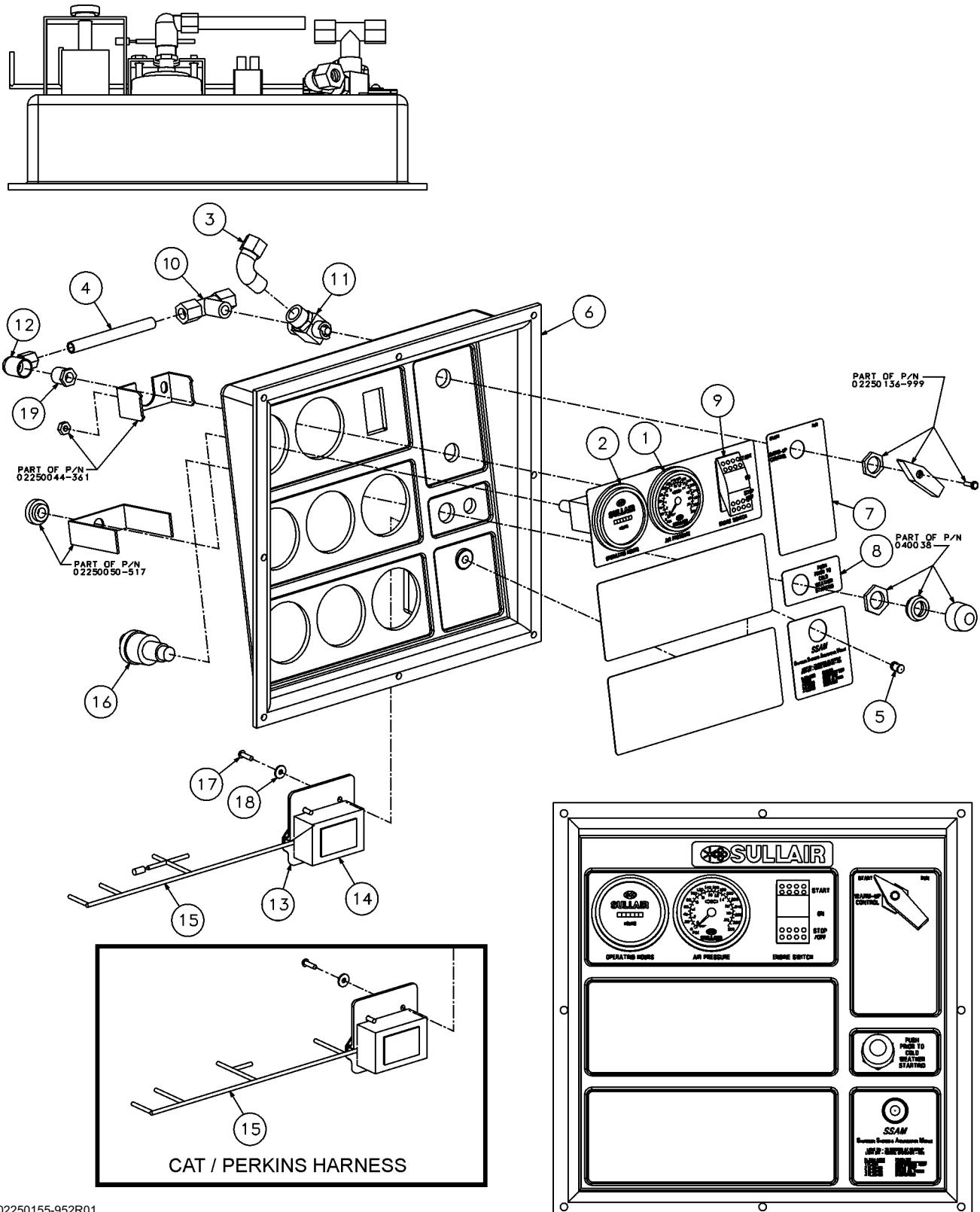
PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

PART NUMBER REFERENCE	MODEL	GAUGE CONFIGURATION	REFER TO SECTION
02250155-952	John Deere 125, 130, 185 & 49HP	Standard	7.13A
02250155-955	Perkins / Caterpillar 125, 130, 185	Standard	7.13A
02250153-403	John Deere 160H	Standard	7.13B
02250155-958	Perkins / Caterpillar (Australian) 130, 185	Standard	7.13C
02250155-953	John Deere 125, 130, 185 & 49HP	Full	7.13D
02250155-956	Perkins / Caterpillar 125, 130, 185	Full	7.13D
02250154-137	John Deere 160H	Full	7.13E

Section 7

ILLUSTRATIONS AND PARTS

7.13A INSTRUMENT PANEL AND PARTS - JOHN DEERE / CATERPILLAR / PERKINS MODELS 125, 130, 185, 49HP (STANDARD GAUGE)



02250155-952R01
02250155-955R01

Section 7

ILLUSTRATIONS AND PARTS

7.13A INSTRUMENT PANEL AND PARTS - JOHN DEERE / CATERPILLAR / PERKINS MODELS 125, 130, 185, 49HP (STANDARD GAUGE)

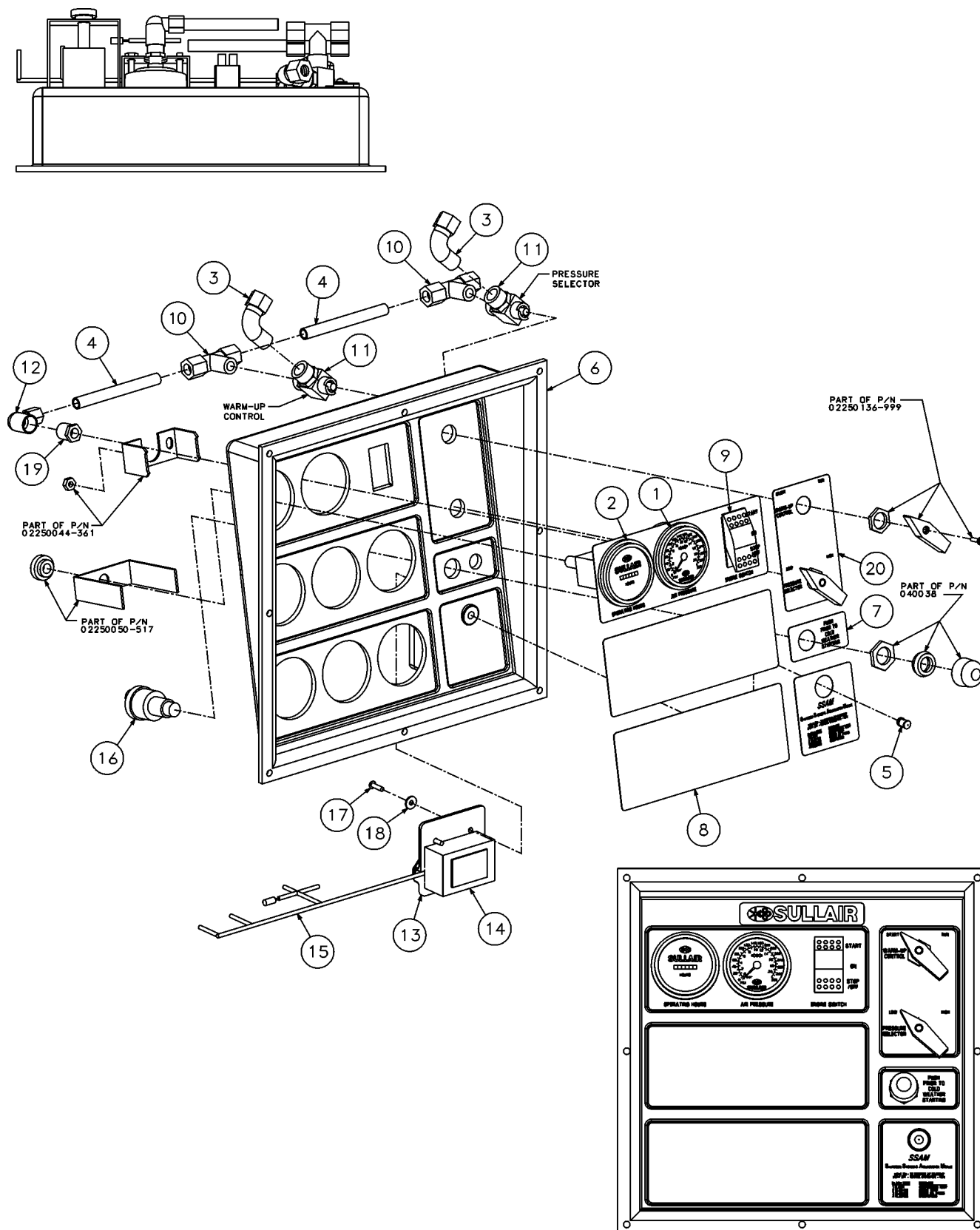
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	gauge, pressure air 0-300 2"	02250044-361	1
2	hour-meter, 12-24vdc 10000hr 2"	02250050-517	1
3	elbow, 90 3/8"tube x 1/4"npt m	02250099-626	1
4	tube, nylon .375"od x .050w black	02250099-630	1 ft.
5	lense, cliplite led	02250129-189	1
6	panel, instrument plastic ssam	02250129-190	1
7	decal, starting aid 185-375 cat	02250130-631	1
8	decal, group std panel (ssam)	02250131-485	1
9	switch, engine ignition 12-volt	02250132-883	1
10	tee, male branch 3/8" tube x 1/4"npt m	02250136-998	1
11	valve, ball 2-way 1/4"npt	02250136-999	1
12	elbow, 90 f 3/8"tube x 1/4"npt	02250137-033	1
13	cover, access ssam molded abs	02250137-265	1
14	controller, ssam 185-60hp	02250139-296	1
15	harness, wiring 185 (John Deere) TII	02250155-951	1
	• harness, wiring 185 (Caterpillar & Perkins) TII	02250155-954	1
16	switch, starter push-button	040038	1
17	screw, tc-f rd hd #6-32 x 1/2	835700-050	2
18	washer, pl-b reg pltd #6	838200-045	2
19	bushing, red pltd 1/4 x 1/8	867100-005	1

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.13B INSTRUMENT PANEL AND PARTS - JOHN DEERE MODEL 160H (STANDARD GAUGE)



Section 7

ILLUSTRATIONS AND PARTS

7.13B INSTRUMENT PANEL AND PARTS - JOHN DEERE MODEL 160H (STANDARD GAUGE)

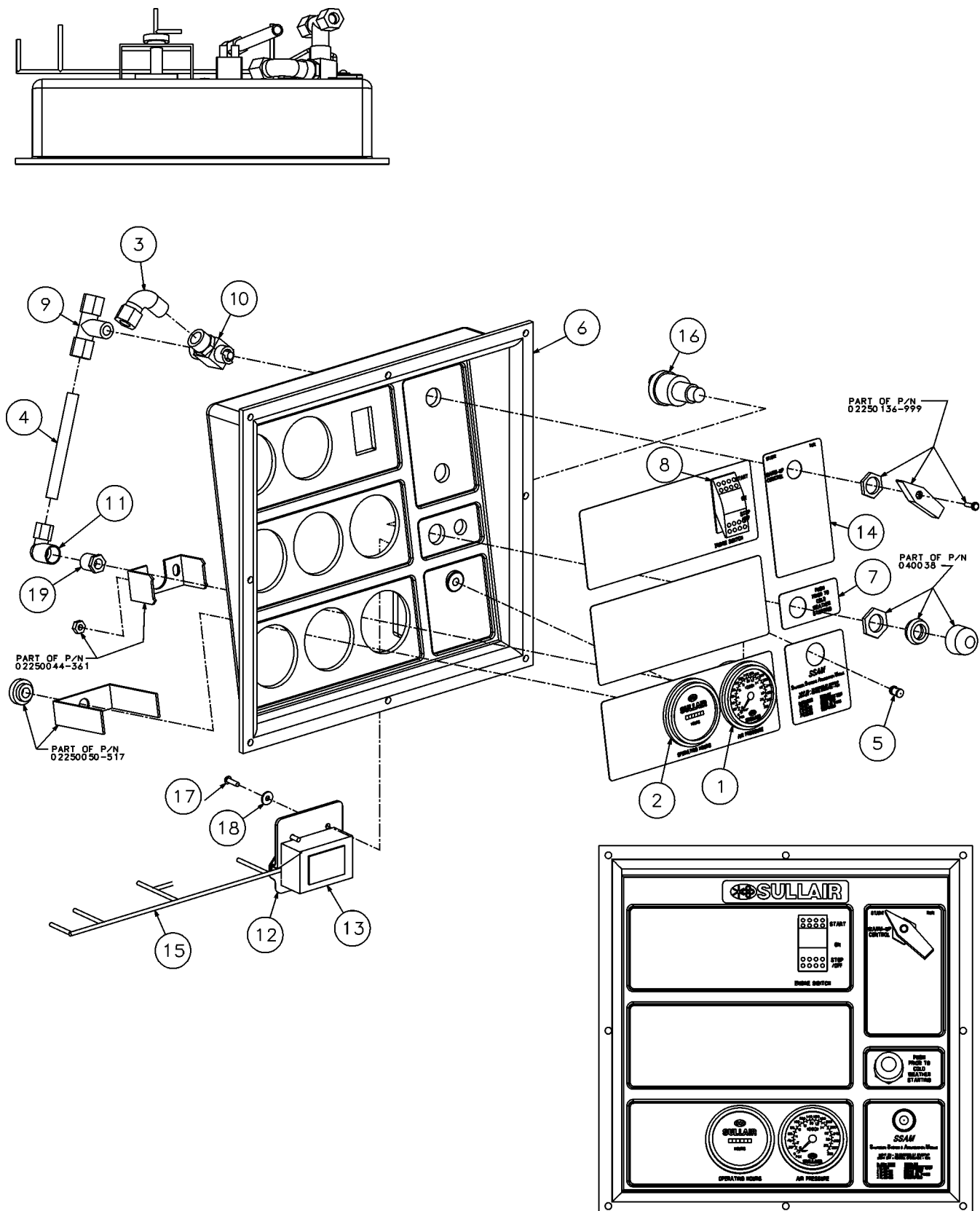
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	gauge, pressure air 0-300 2"	02250044-361	1
2	hour-meter, 12-24vdc 10000hr 2"	02250050-517	1
3	elbow, 90 3/8"tube x 1/4"npt m	02250099-626	2
4	tube,nylon .375"od x .050w black	02250099-630	2 ft.
5	lense, cliplite led	02250129-189	1
6	panel, instrument plastic ssam	02250129-190	1
7	decal, starting aid 185-375 cat	02250130-631	1
8	decal, group std panel (ssam)	02250131-485	1
9	switch, engine ignition 12-volt	02250132-883	1
10	tee, male branch 3/8"tube x 1/4"npt m	02250136-998	2
11	valve, ball 2-way 1/4"npt	02250136-999	2
12	elbow, 90 f 3/8"tube x 1/4"npt	02250137-033	1
13	cover, access ssam molded abs	02250137-265	1
14	controller, ssam 185-60hp	02250139-296	1
15	harness, wiring 185 jd tii	02250155-951	1
16	switch, starter push-button	040038	1
17	screw, tc-f rd hd #6-32 x 1/2	835700-050	2
18	washer, pl-b reg pltd #6	838200-045	2
19	bushing, red pltd 1/4 x 1/8	867100-005	1
20	decal, dual pressure 185-375 ssam	02250130-630	1

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.13C INSTRUMENT PANEL AND PARTS - CATERPILLAR AND PERKINS (AUSTRALIAN) MODELS 130-185



Section 7

ILLUSTRATIONS AND PARTS

7.13C INSTRUMENT PANEL AND PARTS - CATERPILLAR AND PERKINS (AUSTRALIAN) MODELS 130-185

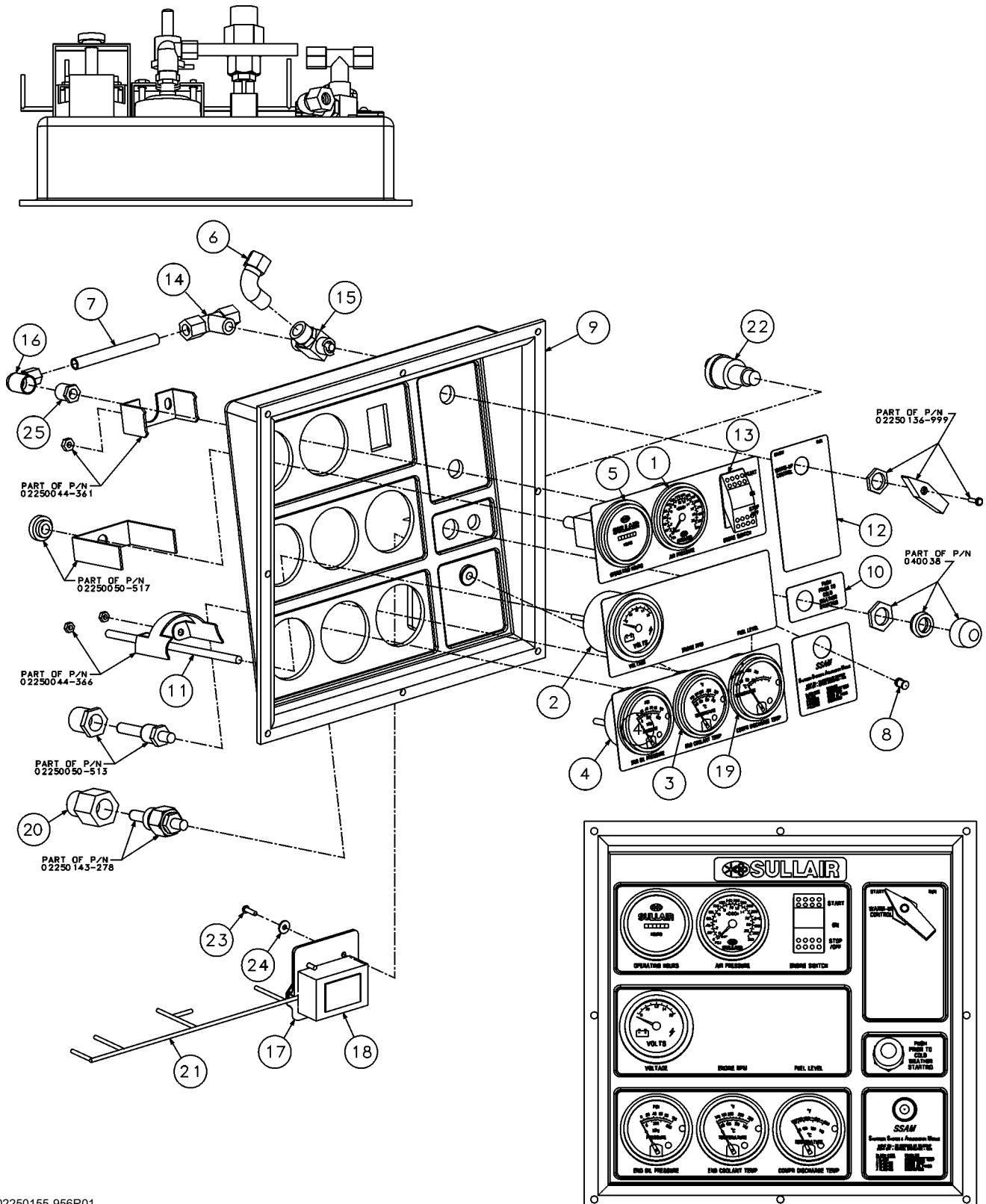
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	gauge, pressure air 0-300 2"	02250044-361	1
2	hour-meter, 12-24vdc 10000hr 2"	02250050-517	1
3	elbow, 90 3/8"tube x 1/4"npt m	02250099-626	1
4	tube, nylon .375"od x .050w black	02250099-630	1 ft.
5	lense, cliplite led	02250129-189	1
6	panel, instrument plastic ssam	02250129-190	1
7	decal, starting aid 185-375 cat	02250130-631	1
8	switch, engine ignition 12-volt	02250132-883	1
9	tee, male branch 3/8"tube x 1/4"npt m	02250136-998	1
10	valve, ball 2-way 1/4"npt	02250136-999	1
11	elbow, 90 f 3/8"tube x 1/4"npt	02250137-033	1
12	cover, access ssam molded abs	02250137-265	1
13	controller, ssam 185-60hp	02250139-296	1
14	decal, group std panel (ssam)	02250142-253	1
15	harness, wiring 185 aus p/c tier ii	02250155-957	1
16	switch, starter push-button	040038	1
17	screw, tc-f rd hd #6-32 x 1/2	835700-050	2
18	washer, pl-b reg pltd #6	838200-045	2
19	bushing, red pltd 1/4 x 1/8	867100-005	1

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.13D INSTRUMENT PANEL & PARTS - JOHN DEERE / CATERPILLAR / PERKINS MODELS 125, 130, 185, 49HP (FULL GAUGE)



02250155-956R01
02250155-953R01

Section 7

ILLUSTRATIONS AND PARTS

7.13D INSTRUMENT PANEL & PARTS - JOHN DEERE / CATERPILLAR / PERKINS MODELS 125, 130, 185, 49HP (FULL GAUGE)

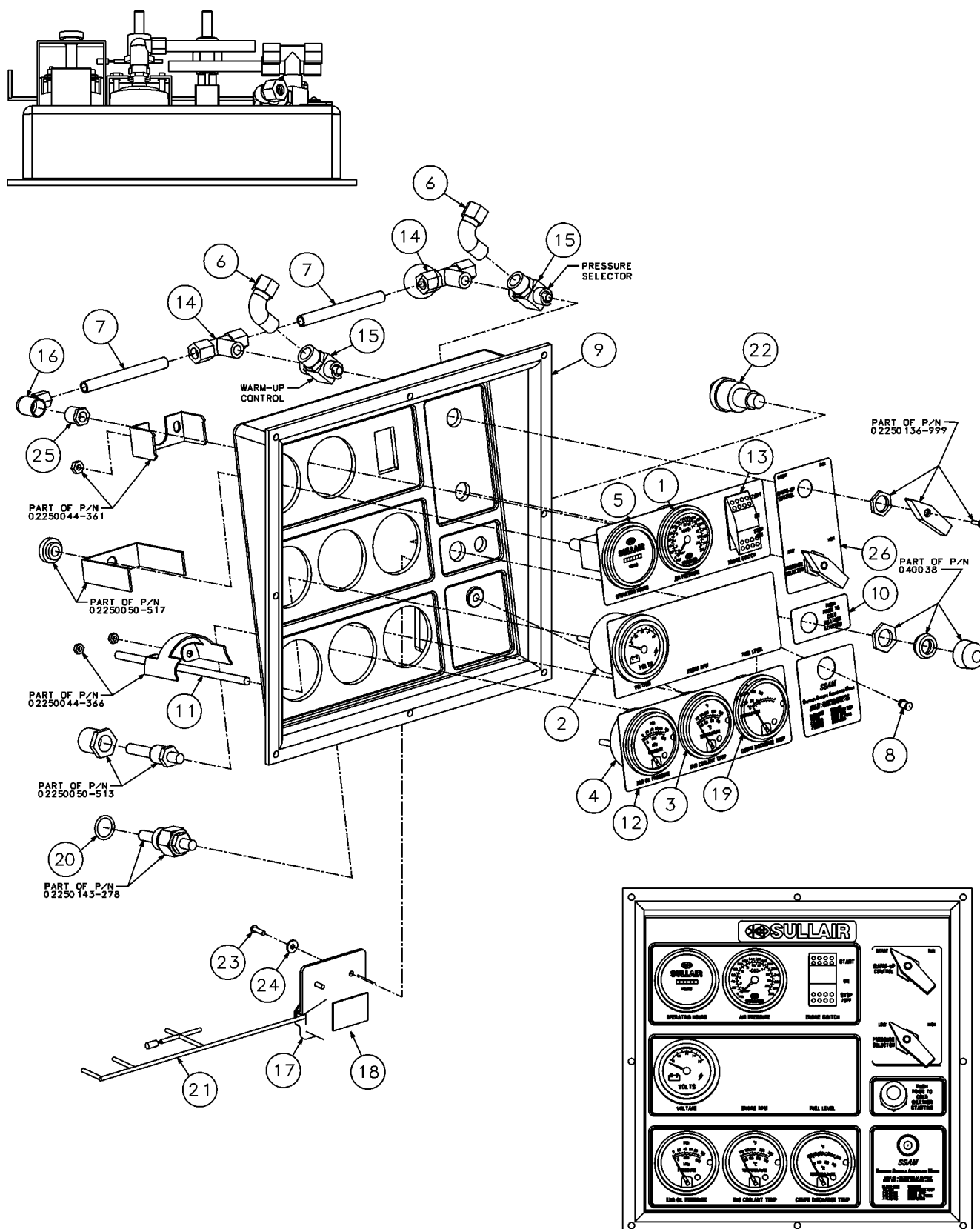
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	gauge, pressure air 0-300 2"	02250044-361	1
2	gauge, volt-meter 12 volt 2"	02250044-366	1
3	gage, temperature mech 72" 130-250f 2"	02250050-513	1
4	gauge, pressure mech 0-100psi 2"	02250050-516	1
5	hour-meter, 12-24vdc 10000hr 2"	02250050-517	1
6	elbow, 90 3/8"tube x 1/4"npt m	02250099-626	1
7	tube, nylon .375"od x .050w black	02250099-630	1 ft.
8	lense, cliplite led	02250129-189	1
9	panel, instrument plastic ssam	02250129-190	1
10	decal, starting aid 185-375 cat	02250130-631	1
11	harness, voltmeter 125-425 jd/cat	02250130-635	1
12	decal, group full gauge (ssam)	02250131-486	1
13	switch, engine ignition 12-volt	02250132-883	1
14	tee, male branch 3/8"tube x 1/4"npt m	02250136-998	1
15	valve, ball 2-way 1/4"npt	02250136-999	1
16	elbow, 90 f 3/8"tube x 1/4"npt	02250137-033	1
17	cover, access ssam molded abs	02250137-265	1
18	controller, ssam 185-60hp	02250139-296	1
19	gauge, temp mech 8ft 140-300\$sf	02250143-278	1
20	adapter, red 1/2-14 npt murphy thrd	02250155-384	1
21	harness, wiring 185 (John Deere) TII	02250155-951	1
	• harness, wiring 185 (Caterpillar & Perkins) TII	02250155-954	1
22	switch, starter push-button	040038	1
23	screw, tc-f rd hd #6-32 x 1/2	835700-050	2
24	washer, pl-b reg pltd #6	838200-045	2
25	bushing, red pltd 1/4 x 1/8	867100-005	1

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.13E INSTRUMENT PANEL & PARTS - JOHN DEERE MODEL 160H (FULL GAUGE)



02250154-137R04

Section 7

ILLUSTRATIONS AND PARTS

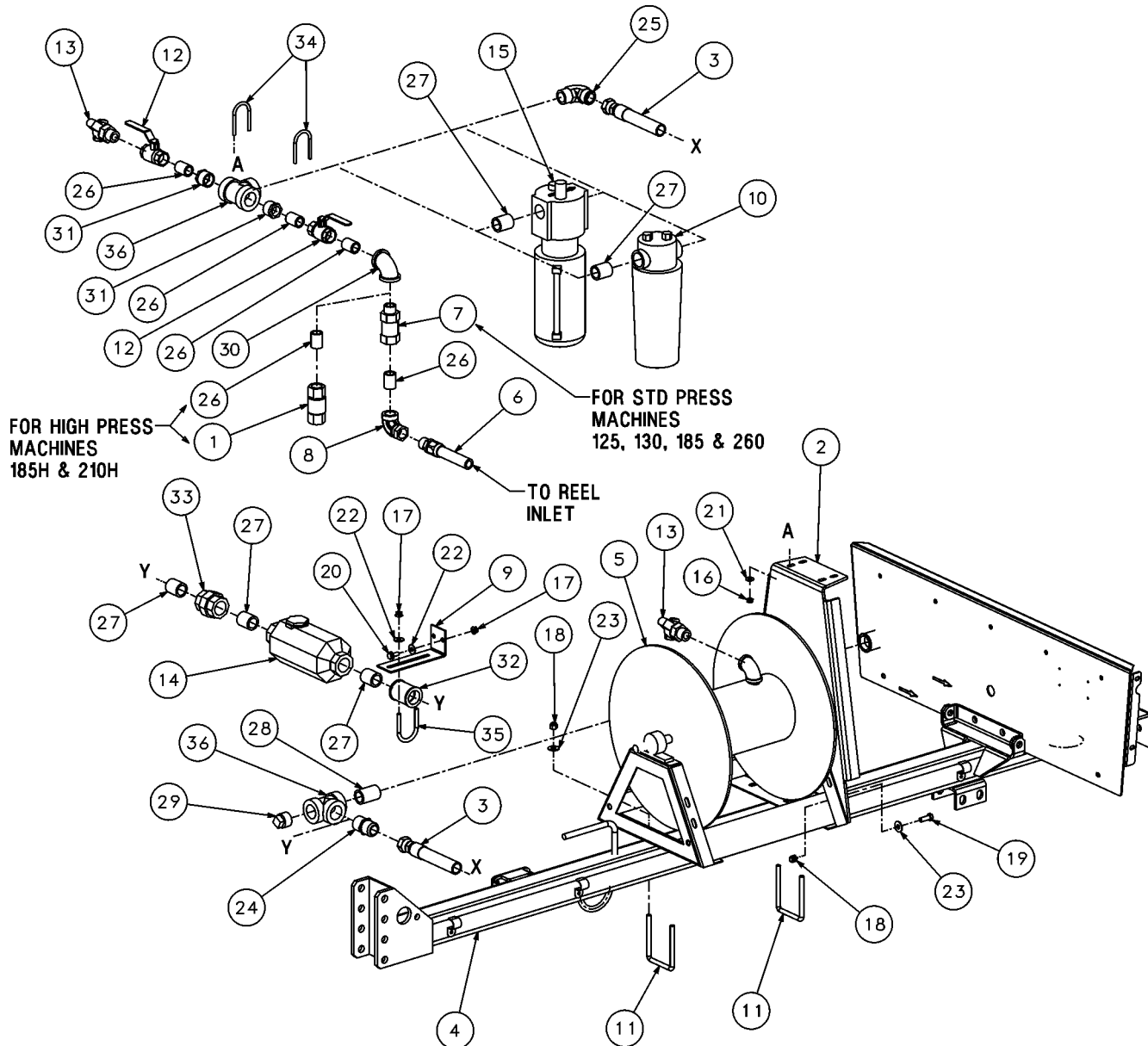
7.13E INSTRUMENT PANEL & PARTS - JOHN DEERE MODEL 160H (FULL GAUGE)

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	gauge, pressure air 0-300 2"	02250044-361	1
2	gauge, volt-meter 12 volt 2"	02250044-366	1
3	gage, temperature mech 72" 130-250f 2"	02250050-513	1
4	gauge, pressure mech 0-100psi 2"	02250050-516	1
5	hour-meter, 12-24vdc 10000hr 2"	02250050-517	1
6	elbow, 90 3/8"tube x 1/4"npt m	02250099-626	2
7	tube, nylon .375"od x .050w black	02250099-630	2 ft.
8	lense, cliplite led	02250129-189	1
9	panel, instrument plastic ssam	02250129-190	1
10	decal, starting aid 185-375 cat	02250130-631	1
11	harness, voltmeter 125-425 jd/cat	02250130-635	1
12	decal, group full gauge (ssam)	02250131-486	1
13	switch, engine ignition 12-volt	02250132-883	1
14	tee, male branch 3/8"tube x 1/4"npt m	02250136-998	2
15	valve, ball 2-way 1/4"npt	02250136-999	2
16	elbow, 90 f 3/8"tube x 1/4"npt	02250137-033	1
17	cover, access ssam molded abs	02250137-265	1
18	controller, ssam 185-60hp	02250139-296	1
19	gauge, temp mech 8ft 140-300\$sf	02250143-278	1
20	o-ring, str thd 70 vit 1/2"-908	250042-643	1
21	harness, wiring 185 jd tii	02250155-951	1
22	switch, starter push-button	040038	1
23	screw, tc-f rd hd #6-32 x 1/2	835700-050	2
24	washer, pl-b reg pltd #6	838200-045	2
25	bushing, red pltd 1/4 x 1/8	867100-005	1
26	decal, dual pressure 185-375 ssam	02250130-630	1

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

ILLUSTRATIONS AND PARTS

7.14 SINGLE HOSE REEL OPTION - ALL MODELS



Section 7 ILLUSTRATIONS AND PARTS

7.14 SINGLE HOSE REEL OPTION - ALL MODELS

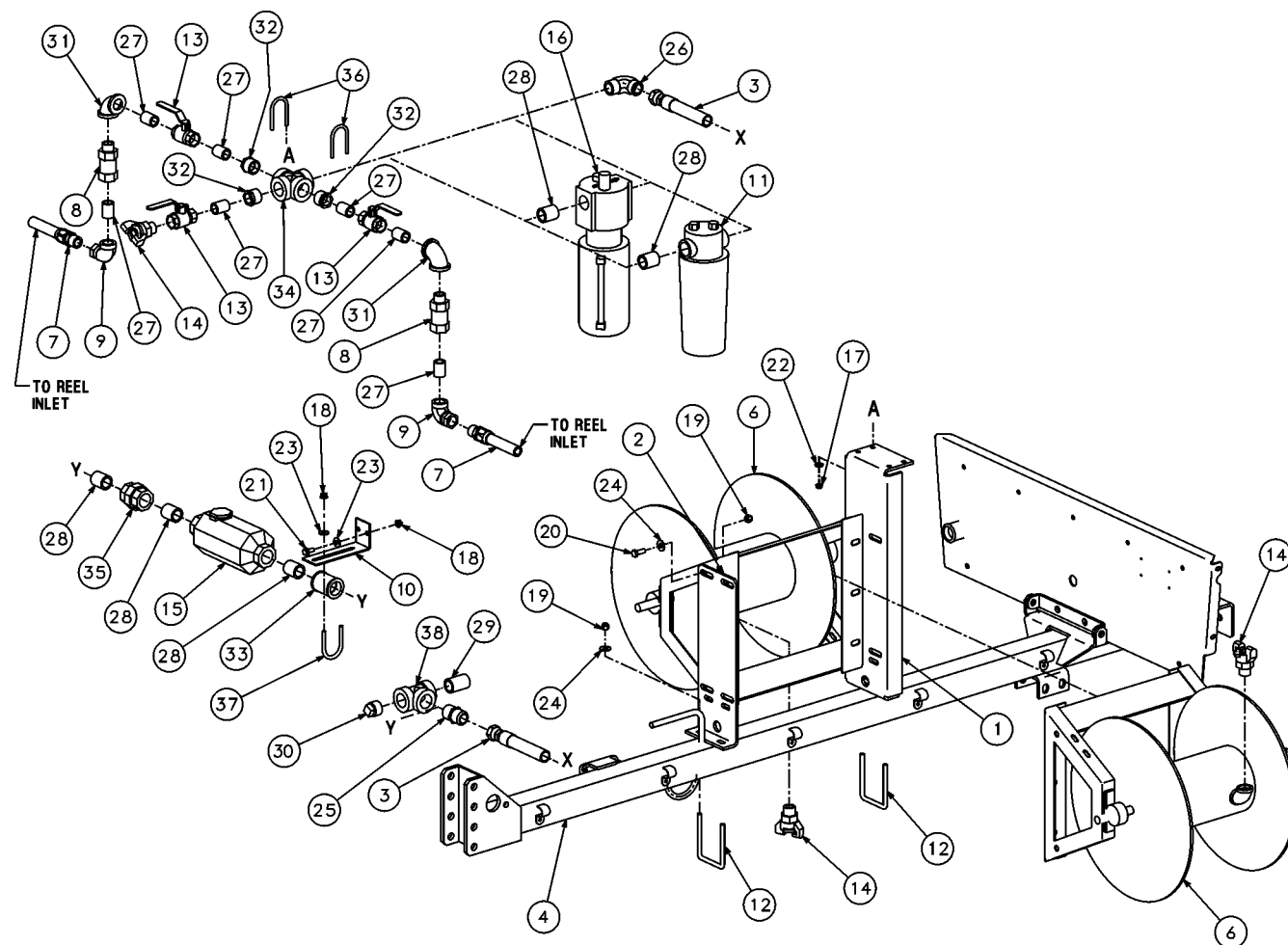
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	valve, air velocity flow 3/4"npt	02250045-062	1
2	support, manifold single hose reel	02250054-447	1
3	hose, medium pressure 1"jic x 32"long	02250054-969	1
4	draw-bar, long pivot 185dpq	02250136-247	1
5	reel, hose 100ft 3/4"hose x 3/4"npt	040170	1
6	hose, assembly 5/8" id x 28"long	040701	1
7	valve, air velocity flow 3/4"npt	043480	1
8	adapter, swivel 90deg 3/4"h x 3/4"p	045241	1
9	support, service manifold	250002-145	1
10	oiler, 1qt microfog nogren	250005-016	1
11	u-bolt, hose reel mount 110-250	250008-322	2
12	valve, ball 3/4" service	250019-865	2
13	coupling, 3/4" male npt am7	250031-648	2
14	lubricator, cf 1 pt 1" 30cf	251315	1
15	oiler, line 2-quart 1" npt	405403	1
16	nut, hex f pltd 1/4-20	825304-236	4
17	nut, hex f pltd 5/16-18	825305-283	4
18	nut, hex locking 3/8-16	825506-198	8
19	capscrew, hex gr5 3/8-16 x 1	829106-100	4
20	screw, hex ser washer 5/16-18 x 3/4	829705-075	2
21	washer, pl-b reg pltd 1/4	838204-071	4
22	washer, pl-b reg pltd 5/16	838205-071	4
23	washer, pl-b reg pltd 3/8	838206-071	8
24	connector, 37 fl/mpt pltd 1 x 1	860116-100	1
25	elbow, 37fl 90m 1 x 1	860216-100	1
26	nipple, pipe-xs plt 3/4 x cl	866412-000	5
27	nipple, pipe-xs plt 1 x cl	866416-000	5
28	nipple, pipe-xs plt 1 x 2	866416-020	1
29	plug, pipe 1" 3000# stl plt	866900-040	1
30	elbow, pipe 90 deg 300# plt 3/4"	867030-030	1
31	bushing, red pltd 1 x 3/4	867104-030	2
32	coupling, pipe 1 300# plt	867430-040	1
33	union, pipe-brs seat 1 300# plt	868030-040	1
34	u-bolt, 1/4" x 1" pipe pltd	868304-100	2
35	u-bolt, 5/16" x 1 1/4" pipe pltd	868305-125	1
36	tee, pipe pltd 1	868430-040	2

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.15 DUAL HOSE REEL OPTION - ALL MODELS



0225002250141-690R02

Section 7 ILLUSTRATIONS AND PARTS

7.15 DUAL HOSE REEL OPTION - ALL MODELS

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	support, hose reel manifold 110-250	02250048-573	1
2	support, hose reel 110-250 portables	02250048-574	1
3	hose, medium pressure 1"jic x 32"long	02250054-969	2
4	draw-bar, long pivot 185dpq	02250136-247	1
5	support, dr-bar swivel 185q	02250141-183	1
6	reel, hose 100ft 3/4"hose x 3/4"npt	040170	2
7	hose, assembly 5/8"id x 18"long	040885	2
8	valve, air velocity flow 3/4"npt	043480	2
9	adapter, swivel 90deg 3/4"h x 3/4"p	045241	2
10	support, service manifold	250002-145	1
11	oiler, 1qt microfog nogren	250005-016	1
12	u-bolt, hose reel mount 110-250	250008-322	2
13	valve, ball 3/4" service	250019-865	3
14	coupling, 3/4" male npt am7	250031-648	3
15	lubricator, cf 1 pt 1" 30cf	251315	1
16	oiler, line 2-quart 1" npt	405403	1
17	nut, hex f pltd 1/4-20	825304-236	4
18	nut, hex f pltd 5/16-18	825305-283	4
19	nut, hex locking 3/8-16	825506-198	12
20	capscrew, hex gr5 3/8-16 x 1	829106-100	8
21	screw, hex ser washer 5/16-18 x 3/4	829705-075	2
22	washer, pl-b reg pltd 1/4	838204-071	4
23	washer, pl-b reg pltd 5/16	838205-071	4
24	washer, pl-b reg pltd 3/8	838206-071	12
25	connector, 37 fl/mpt pltd 1 x 1	860116-100	1
26	elbow, 37fl 90m 1 x 1	860216-100	1
27	nipple, pipe-xs plt 3/4 x cl	866412-000	7
28	nipple, pipe-xs plt 1 x cl	866416-000	5
29	nipple, pipe-xs plt 1 x 2	866416-020	1
30	plug, pipe 1" 3000# stl plt	866900-040	1
31	elbow, pipe 90 deg 300# plt 3/4"	867030-030	2
32	bushing, red pltd 1 x 3/4	867104-030	3
33	coupling, pipe 1 300# plt	867430-040	1

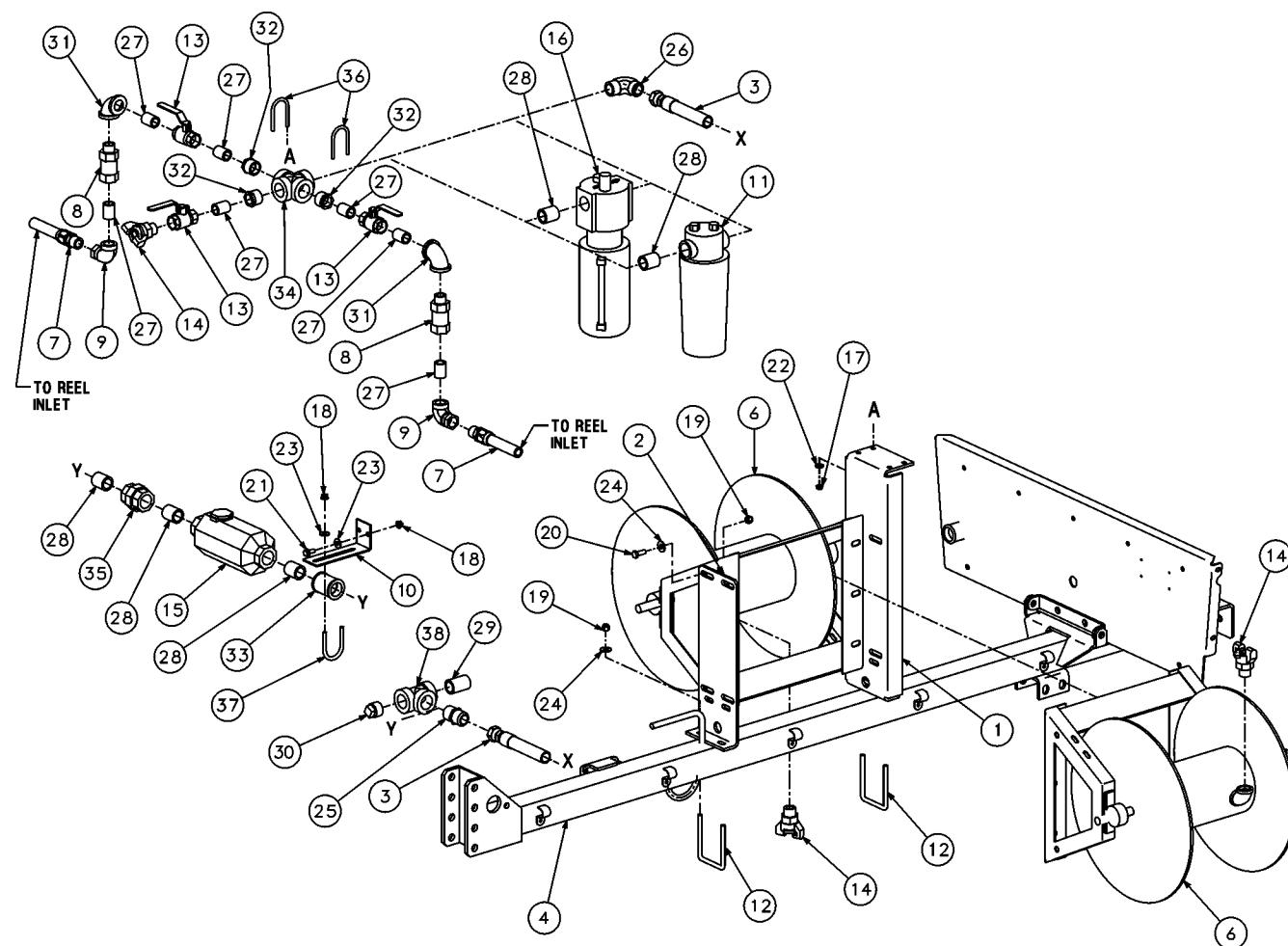
Continued on page 99

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.15 DUAL HOSE REEL OPTION - ALL MODELS



0225002250141-690R02

Section 7 ILLUSTRATIONS AND PARTS

7.15 DUAL HOSE REEL OPTION - ALL MODELS (CONTINUED)

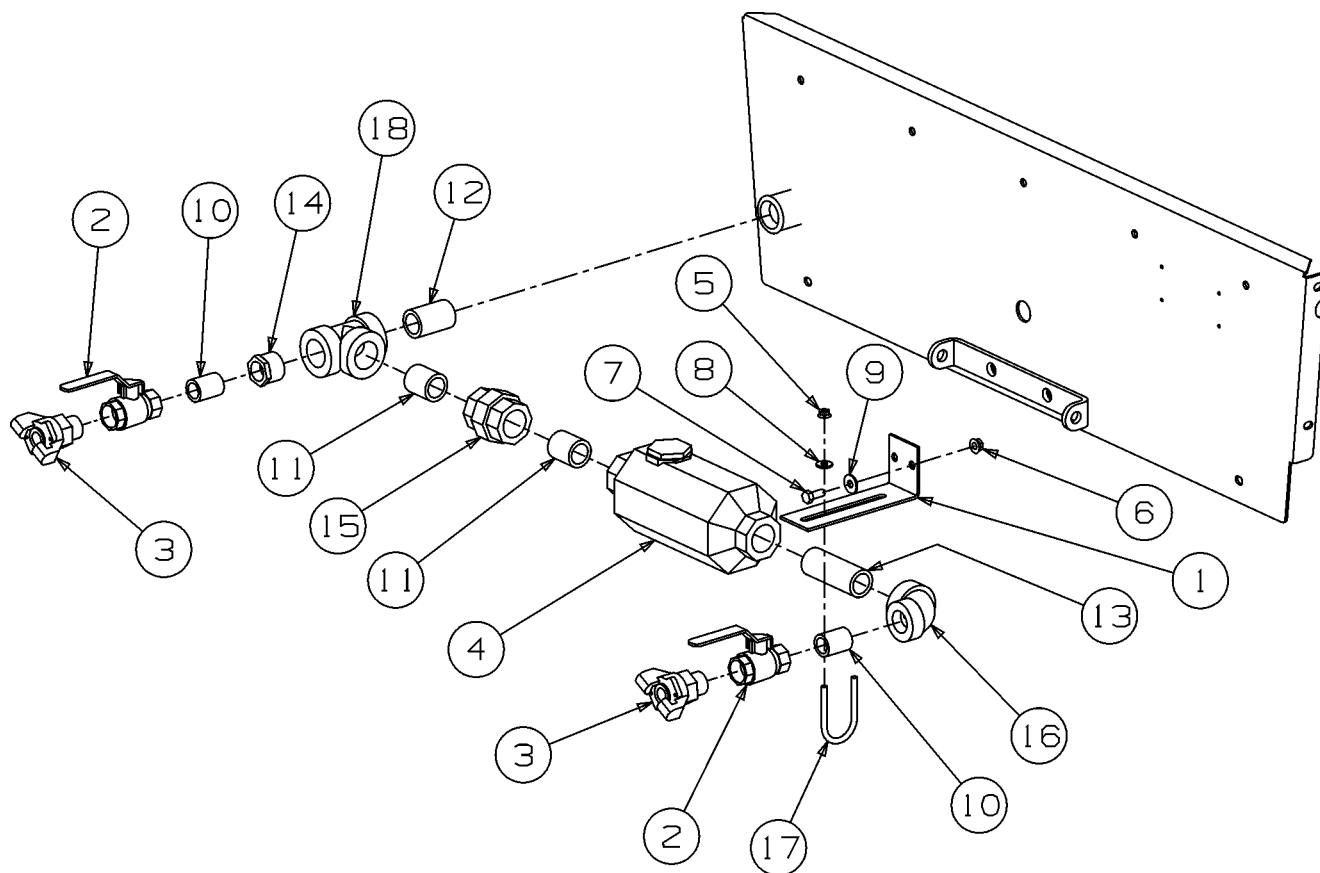
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
34	cross, pipe 1" plt	867830-040	1
35	union, pipe-brs seat 1 300# plt	868030-040	1
36	u-bolt, 1/4" x 1" pipe pltd	868304-100	2
37	u-bolt, 5/16" x 1 1/4" pipe pltd	868305-125	1
38	tee, pipe pltd 1	868430-040	1
39	coupling, pipe 1 150# plt	869015-040	1

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.16A ONE PINT OILER OPTION - ALL MODELS



Section 7 ILLUSTRATIONS AND PARTS

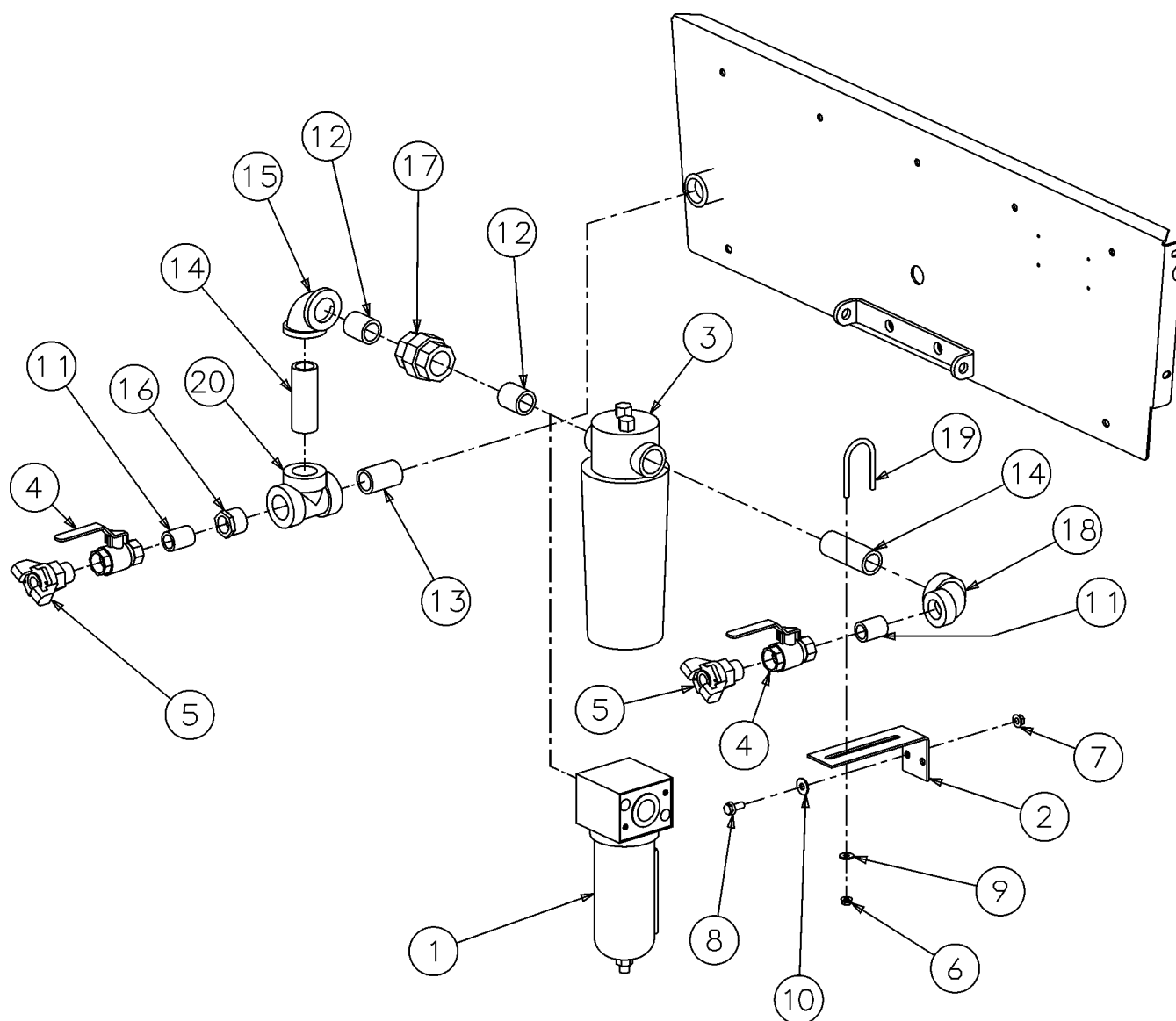
7.16A ONE PINT OILER OPTION - ALL MODELS

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	support, service manifold	250002-145	1
2	valve, ball 3/4" service	250019-865	2
3	coupling, 3/4" male npt am7	250031-648	2
4	lubricator, cf 1 pt 1" 30cf	251315	1
5	nut, hex f pltd 1/4-20	825304-236	2
6	nut, hex f pltd 5/16-18	825305-283	2
7	capscrew, hex gr8 5/16-18 x 3/4	827905-075	2
8	washer, pl-b reg pltd 1/4	838204-071	2
9	washer, pl-b reg pltd 5/16	838205-071	2
10	nipple, pipe-xs plt 3/4 x cl	866412-000	2
11	nipple, pipe-xs plt 1 x cl	866416-000	2
12	nipple, pipe-xs plt 1 x 2	866416-020	1
13	nipple, pipe-xs plt 1 x 3 1/2	866416-035	1
14	bushing, red pltd 1 x 3/4	867104-030	1
15	union, pipe-brs seat 1 300# plt	868030-040	1
16	elbow, red 1 x 3/4 plt	868104-075	1
17	u-bolt, 1/4" x 1" pipe pltd	868304-100	1
18	tee, pipe pltd 1	868430-040	1

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

7.16B ONE QUART OILER / MOISTURE SEPARATOR OPTIONS - ALL MODELS



Section 7 ILLUSTRATIONS AND PARTS

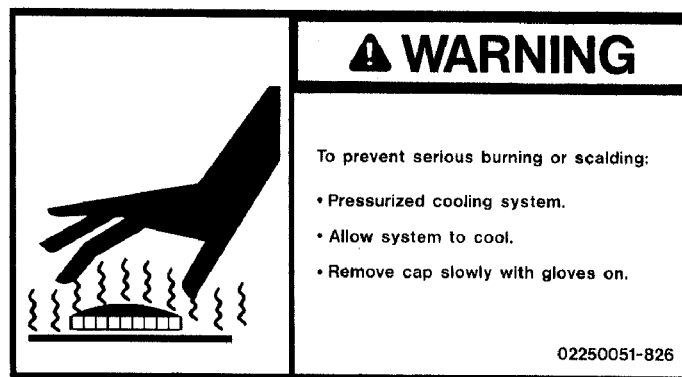
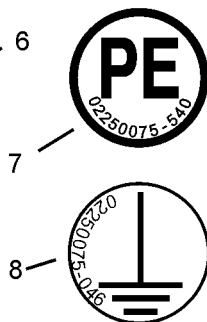
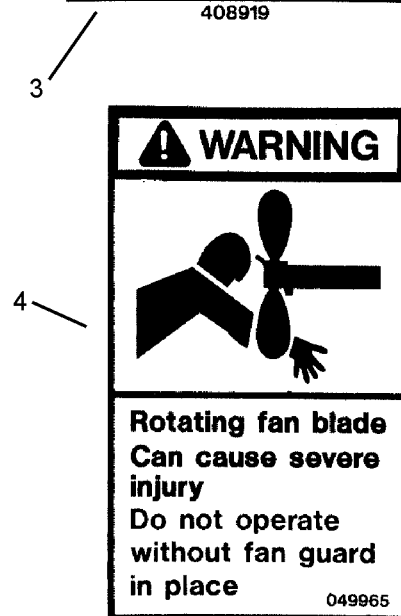
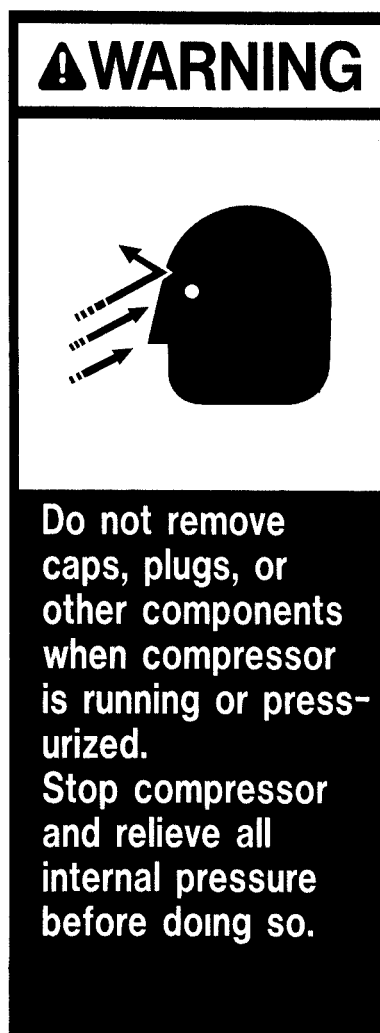
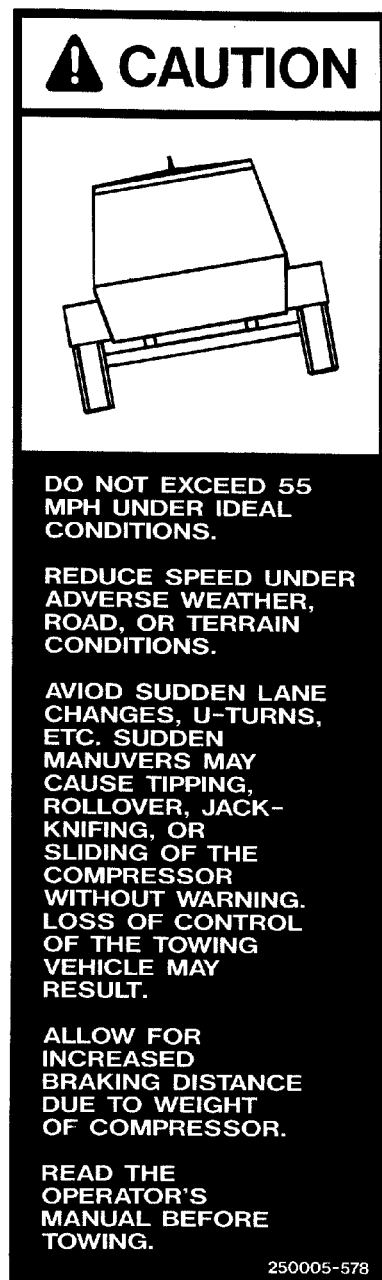
7.16B ONE QUART OILER / MOISTURE SEPARATOR OPTIONS - ALL MODELS

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	separator, moisture	02250127-121	1
2	support, service manifold	250002-145	1
3	oiler, 1qt microfog nogren	250005-016	1
4	valve, ball 3/4" service	250019-865	2
5	coupling, 3/4" male npt am7	250031-648	2
6	nut, hex f pltd 1/4-20	825304-236	1
7	nut, hex f pltd 5/16-18	825305-283	1
8	screw, hex ser washer 5/16-18 x 3/4	829705-075	1
9	washer, pl-b reg pltd 1/4	838204-071	1
10	washer, pl-b reg pltd 5/16	838205-071	1
11	nipple, pipe-xs plt 3/4 x cl	866412-000	2
12	nipple, pipe-xs plt 1 x cl	866416-000	2
13	nipple, pipe-xs plt 1 x 2	866416-020	1
14	nipple, pipe-xs plt 1 x 3 1/2	866416-035	2
15	elbow, pipe 90 deg 300# plt 1"	867030-040	1
16	bushing, red pltd 1 x 3/4	867104-030	1
17	union, pipe-brs seat 1 300# plt	868030-040	1
18	elbow, red 1 x 3/4 plt	868104-075	1
19	u-bolt, 1/4" x 1" pipe pltd	868304-100	1
20	tee, pipe pltd 1	868430-040	1

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

7.17 DECALS



Section 7 ILLUSTRATIONS AND PARTS

7.17 DECALS

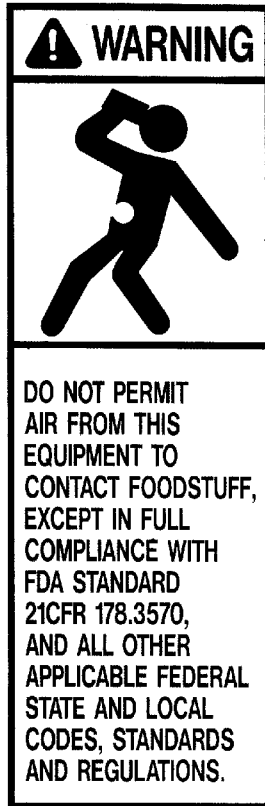
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	sign, caution towing 55 mph	250005-578	1
2	sign, warning compressor fluid fill cap	049685	1
3	sign, warning crush/sever	408919	1
4	sign, warning sever fan port	049965	2
5	decal, warning pressurized clg sys	02250051-826	1
6	decal, doors closed	250038-030	4
7	decal, PE designation	02250075-540	1
8	decal, earth ground	02250075-046	3

Continued on page 107

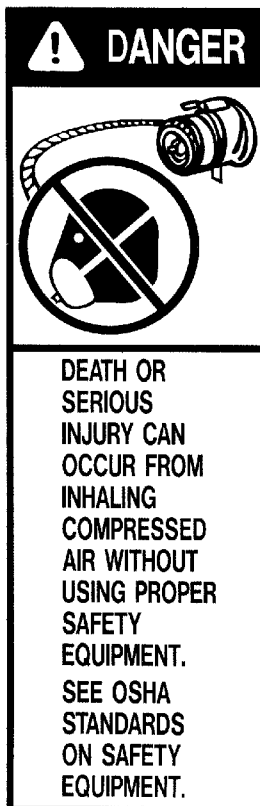
PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

7.17 DECALS



250028-258



02250077-929



49964



407408



040248



02250142-530

COMPRESSOR NOISE EMISSION CONTROL INFORMATION

SULLAIR.
SULLAIR CORPORATION
MICHIGAN CITY, INDIANA U.S.A.

THIS COMPRESSOR CONFORMS TO U.S. E.P.A. REGULATIONS FOR NOISE EMISSIONS APPLICABLE TO PORTABLE AIR COMPRESSORS. THE FOLLOWING ACTS OR THE CAUSING THEREOF BY ANY PERSON ARE PROHIBITED BY THE NOISE CONTROL ACT OF 1972:

(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 (LISTED IN THE OWNER'S MANUAL) 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.

DATE OF MANUFACTURE: 049463

2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31					

Section 7 ILLUSTRATIONS AND PARTS

7.17 DECALS (CONTINUED)

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
9	decal, warning 100/1600 (II)	250028-258	1
10	decal, warning tougue heavy	02250077-929	1
11	sign, warning sever belt drive	049964	1
12	sign, warning hot surfaces	407408	2
13	decal, diesel fuel	040248	1
14	decal, caution - do not overfill	02250142-530	1
15	decal, noise emission control (U.S. compressors only)	049463	1

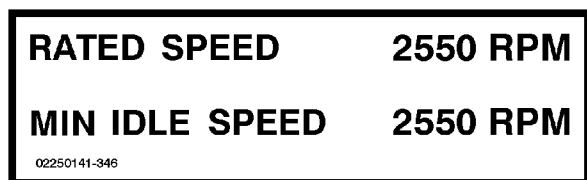
Continued on page 109

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

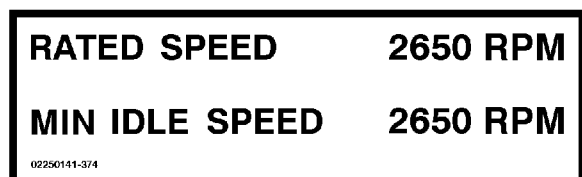
7.17 DECALS



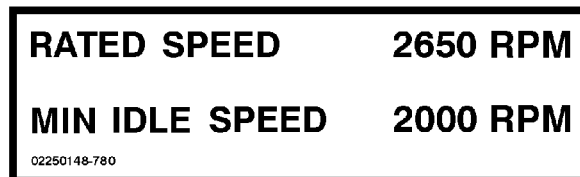
(Perkins & Cat 125 Models)



(JD 125 Models)



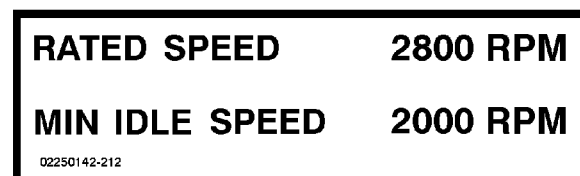
(Perkins & Cat 130 Models)



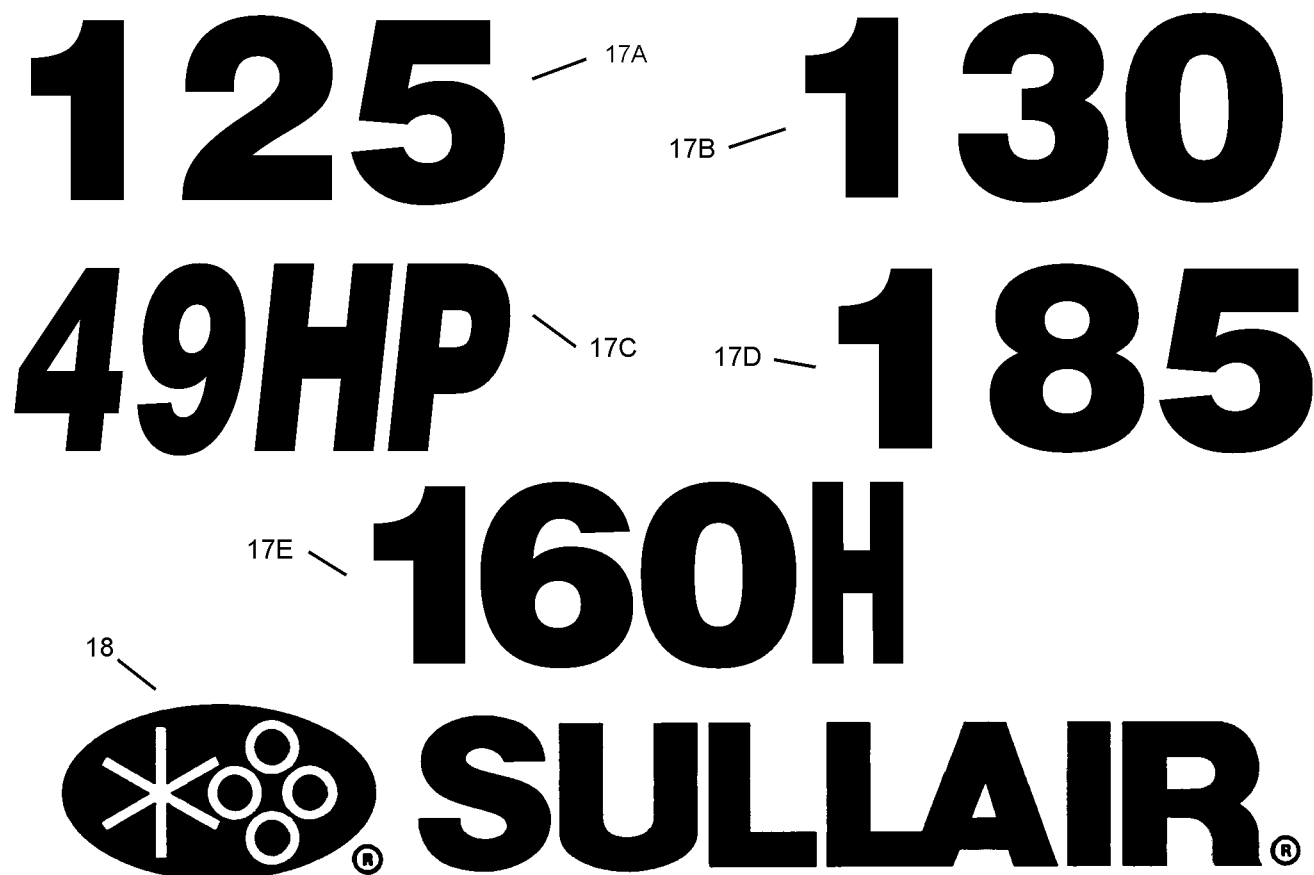
(JD 130 & 49HP Models)



(Perkins & Cat 185 Models)



(JD 185 & 160H Models)



Section 7 ILLUSTRATIONS AND PARTS

7.17 DECALS (CONTINUED)

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
16A	decal, rated speed 2550/2550 RPM	02250141-346	1
16B	decal, rated speed 2550/2000 RPM	02250148-781	1
16C	decal, rated speed 2650/2650 RPM	02250141-347	1
16D	decal, rated speed 2650/2000 RPM	02250148-780	1
16E	decal, rated speed 2800/2200 RPM	250023-694	1
16F	decal, rated speed 2800/2000 RPM	02250142-212	1
17A	decal, 125	02250141-348	2
17B	decal, 130	02250141-349	2
17C	decal, 49HP	02250147-899	2
17D	decal, 185	02250140-918	2
17E	decal, 160H	02250153-399	2
18	decal, Sullair logo - black	02250059-058	2

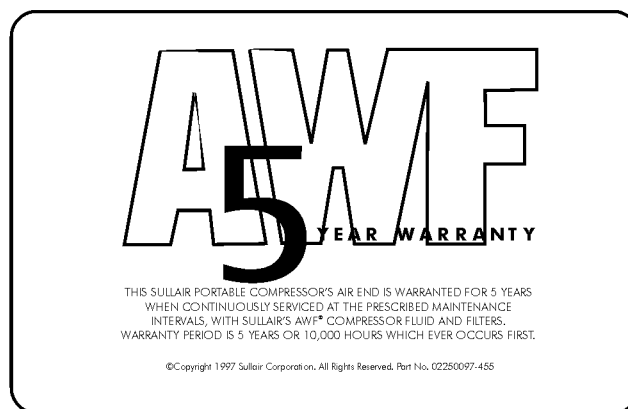
Continued on page 111

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

7.17 DECALS

MAINTENANCE	FILTER REPLACEMENT																						
DAILY: - CHECK ALL LIQUID LEVELS. - DRAIN WATER FROM FUEL-WATER SEPARATOR. INITIAL 50 HOURS: - CHANGE COMPRESSOR FLUID FILTER. - CLEAN THE RETURN LINE ORIFICE AND STRAINER. EVERY 50 HOURS: - INSPECT AND REPLACE AIR FILTER ELEMENTS (IF REQUIRED). - CHECK FUEL FILTER FOR WATER. EVERY 300 HOURS: - CHANGE COMPRESSOR OIL & FILTER WHEN NOT USING SULLAIR AWF. - CLEAN THE RETURN LINE STRAINER. EVERY 500 HOURS: - CHANGE ENGINE OIL AND FILTER. - CHANGE ENGINE FUEL FILTER. - CHANGE ENGINE FUEL-WATER SEPARATOR. EVERY 600 HOURS: - CHANGE COMPRESSOR OIL FILTER. EVERY 1000 HOURS: - CLEAN THE RETURN LINE ORIFICE. EVERY 1200 HOURS: - CHANGE COMPRESSOR OIL & FILTER WHEN USING SULLAIR AWF. - SERVICE ENGINE COOLING SYSTEM. GENERAL: - LUBRICATE AXLE BEARINGS, NOT TO EXCEED 12 MONTHS OR 12K MILES. REFER TO SULLAIR OPERATORS MANUAL FOR GREASE GRADE AND PROCEDURE. - REFER TO SULLAIR & CATERPILLAR ENGINE OPERATOR MANUALS FOR LUBRICATION SPECIFICATIONS AND DETAILED INFORMATION.	<table><tr><th>DESCRIPTION</th><th>SULLAIR P/N</th></tr><tr><td>PRIMARY AIR FILTER ELEMENT</td><td>02250102-158</td></tr><tr><td>COMPRESSOR OIL FILTER</td><td>02250050-602</td></tr><tr><td>ENGINE OIL FILTER</td><td>02250148-779</td></tr><tr><td>ENGINE FUEL FILTER</td><td>02250148-778</td></tr><tr><td>FUEL-WATER SEPARATOR</td><td>02250118-495</td></tr><tr><td>AIR/FLUID SEPARATOR</td><td>250034-112</td></tr></table> <table><tr><th>DESCRIPTION</th><th>SULLAIR P/N</th></tr><tr><td>RETURN LINE STRAINER</td><td>241772</td></tr><tr><td>REGULATOR/BLOWDOWN MANIFOLD-100PSI</td><td>02250147-737</td></tr><tr><td>COMPRESSOR INLET VALVE</td><td>02250109-684</td></tr></table> LUBRICANTS REFER TO SULLAIR AND CATERPILLAR MANUALS FOR COMPRESSOR & ENGINE LUBRICATING OIL RECOMMENDATIONS. 02250148-628 REV 00	DESCRIPTION	SULLAIR P/N	PRIMARY AIR FILTER ELEMENT	02250102-158	COMPRESSOR OIL FILTER	02250050-602	ENGINE OIL FILTER	02250148-779	ENGINE FUEL FILTER	02250148-778	FUEL-WATER SEPARATOR	02250118-495	AIR/FLUID SEPARATOR	250034-112	DESCRIPTION	SULLAIR P/N	RETURN LINE STRAINER	241772	REGULATOR/BLOWDOWN MANIFOLD-100PSI	02250147-737	COMPRESSOR INLET VALVE	02250109-684
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19A

20

MAINTENANCE	FILTER REPLACEMENT																						
DAILY: - CHECK ALL LIQUID LEVELS. - DRAIN WATER FROM FUEL-WATER SEPARATOR. INITIAL 50 HOURS: - CHANGE COMPRESSOR FLUID FILTER. - CLEAN THE RETURN LINE ORIFICE AND STRAINER. EVERY 50 HOURS: - INSPECT AND REPLACE AIR FILTER ELEMENTS (IF REQUIRED). - CHECK FUEL FILTER FOR WATER. EVERY 300 HOURS: - CHANGE COMPRESSOR OIL & FILTER WHEN NOT USING SULLAIR AWF. - CLEAN THE RETURN LINE STRAINER. EVERY 500 HOURS: - CHANGE ENGINE OIL AND FILTER. - CHANGE ENGINE FUEL FILTER. - CHANGE ENGINE FUEL-WATER SEPARATOR. EVERY 600 HOURS: - CHANGE COMPRESSOR OIL FILTER. EVERY 1000 HOURS: - CLEAN THE RETURN LINE ORIFICE. EVERY 1200 HOURS: - CHANGE COMPRESSOR OIL & FILTER WHEN USING SULLAIR AWF. - SERVICE ENGINE COOLING SYSTEM. GENERAL: - LUBRICATE AXLE BEARINGS, NOT TO EXCEED 12 MONTHS OR 12K MILES. REFER TO SULLAIR OPERATORS MANUAL FOR GREASE GRADE AND PROCEDURE. - REFER TO SULLAIR & PERKINS ENGINE OPERATOR MANUALS FOR LUBRICATION SPECIFICATIONS AND DETAILED INFORMATION.	<table><tr><th>DESCRIPTION</th><th>SULLAIR P/N</th></tr><tr><td>PRIMARY AIR FILTER ELEMENT</td><td>02250102-158</td></tr><tr><td>COMPRESSOR OIL FILTER</td><td>02250050-602</td></tr><tr><td>ENGINE OIL FILTER</td><td>02250140-049</td></tr><tr><td>ENGINE FUEL FILTER</td><td>02250140-048</td></tr><tr><td>FUEL-WATER SEPARATOR</td><td>02250118-495</td></tr><tr><td>AIR/FLUID SEPARATOR</td><td>250034-112</td></tr></table> <table><tr><th>DESCRIPTION</th><th>SULLAIR P/N</th></tr><tr><td>RETURN LINE STRAINER</td><td>241772</td></tr><tr><td>REGULATOR/BLOWDOWN MANIFOLD-100 PSI</td><td>02250147-737</td></tr><tr><td>COMPRESSOR INLET VALVE</td><td>02250109-684</td></tr></table> LUBRICANTS REFER TO SULLAIR AND PERKINS MANUALS FOR COMPRESSOR & ENGINE LUBRICATING OIL RECOMMENDATIONS. 02250140-027 REV 00	DESCRIPTION	SULLAIR P/N	PRIMARY AIR FILTER ELEMENT	02250102-158	COMPRESSOR OIL FILTER	02250050-602	ENGINE OIL FILTER	02250140-049	ENGINE FUEL FILTER	02250140-048	FUEL-WATER SEPARATOR	02250118-495	AIR/FLUID SEPARATOR	250034-112	DESCRIPTION	SULLAIR P/N	RETURN LINE STRAINER	241772	REGULATOR/BLOWDOWN MANIFOLD-100 PSI	02250147-737	COMPRESSOR INLET VALVE	02250109-684
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FUEL-WATER SEPARATOR	02250118-495																						
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RETURN LINE STRAINER	241772																						
REGULATOR/BLOWDOWN MANIFOLD-100 PSI	02250147-737																						
COMPRESSOR INLET VALVE	02250109-684																						

19B

21

22

OIL FOR COMPRESSOR -SULLAIR® AWF- (ALL WEATHER FLUID)

DO NOT ATTEMPT TO OPEN FILLER CAP WHILE UNIT IS RUNNING OR PRESSURIZED.

CAP IS SELF-SEALING.
NO PIPE DOPE IS REQUIRED ON CAP.

OIL LEVEL SHOULD BE VISIBLE IN THE SIGHTGLASS. DO NOT OVERFILL.

250032-902

AXLE LUBRICATION INSTRUCTIONS

LUBRICATE AXLE AT LEAST ONCE EVERY 12 MONTHS OR MORE FREQUENTLY TO INSURE PROPER PERFORMANCE.

USE ONLY LITHIUM COMPLEX NLGI CONSISTENCY #2 GREASE OR MIL-G-10924. OTHER TYPES OF GREASE MAY NOT BE COMPATIBLE.

REMOVE THE RUBBER PLUG, ATTACH A GREASE GUN TO THE GREASE FITTING, APPLY GREASE UNTIL GREASE COMES OUT THE END CAP, AND REINSTALL THE RUBBER PLUG.

250042 543

23

INSTALLATION OF DRAWBAR

WARNING! SUPPORT FRONT END OF MACHINE WITH STURDY JACK STAND(S) SO DRAWBAR IN THE UP POSITION IS 2 TO 3 INCHES OFF THE GROUND. DO THIS BEFORE REMOVING THE DRAWBAR SHIPPING SUPPORT.

- 1) REMOVE SHIPPING SUPPORT FROM THE COMPRESSOR AND DRAWBAR.
- 2) SLIGHTLY LOOSEN THE DRAWBAR PIVOT BOLTS. DO NOT REMOVE THEM.
- 3) CAREFULLY SWING THE DRAWBAR TO IT'S DOWN POSITION. INSTALL WITH PROVIDED HARDWARE (8 1/2-13 X 1-1/4 GRADE 5 SELF-LOCKING CAPSCREWS, 1/2" NORD LOCK WASHERS AND 1/2" FLAT WASHERS) THROUGH THE DRAWBAR MOUNTING PLATES. TORQUE ALL BOLTS TO 77 FT-LBS. NOTE: THE BOLTS AND FRAME NUTS TO BE CLEAN AND FREE OF OIL. RETIGHTEN THE DRAWBAR PIVOT BOLTS.
- 4) REMOVE SHRINK WRAP FROM JACK STAND AND CHAINS. PUT JACK IN DOWN POSITION AND REMOVE YOUR MACHINE SUPPORTS.

02250142-050

MAINTENANCE	FILTER REPLACEMENT																						
DAILY: - CHECK ALL LIQUID LEVELS. - DRAIN WATER FROM FUEL-WATER SEPARATOR. INITIAL 50 HOURS: - CHANGE COMPRESSOR FLUID FILTER. - CLEAN THE RETURN LINE ORIFICE AND STRAINER. EVERY 50 HOURS: - INSPECT AND REPLACE AIR FILTER ELEMENTS (IF REQUIRED). - CHECK FUEL FILTER FOR WATER. EVERY 250 HOURS: - CHANGE ENGINE OIL & FILTER. EVERY 300 HOURS: - CHANGE COMPRESSOR OIL & FILTER WHEN NOT USING SULLAIR AWF. - CLEAN THE RETURN LINE STRAINER. EVERY 500 HOURS: - CHANGE ENGINE FUEL FILTER. - CHANGE ENGINE FUEL-WATER SEPARATOR. EVERY 600 HOURS: - CHANGE COMPRESSOR OIL FILTER. EVERY 1000 HOURS: - CLEAN THE RETURN LINE ORIFICE. EVERY 1200 HOURS: - CHANGE COMPRESSOR OIL & FILTER WHEN USING SULLAIR AWF. - SERVICE ENGINE COOLING SYSTEM. GENERAL: - LUBRICATE AXLE BEARINGS, NOT TO EXCEED 12 MONTHS OR 12K MILES. REFER TO SULLAIR OPERATORS MANUAL FOR GREASE GRADE AND PROCEDURE. - REFER TO SULLAIR & JOHN DEERE ENGINE OPERATORS MANUAL FOR LUBRICATION SPECIFICATIONS AND DETAILED INFORMATION.	<table><tr><th>DESCRIPTION</th><th>SULLAIR P/N</th></tr><tr><td>PRIMARY AIR FILTER ELEMENT</td><td>02250102-158</td></tr><tr><td>COMPRESSOR OIL FILTER</td><td>02250050-602</td></tr><tr><td>ENGINE OIL FILTER</td><td>02250144-815</td></tr><tr><td>ENGINE FUEL FILTER</td><td>02250144-814</td></tr><tr><td>FUEL-WATER SEPARATOR</td><td>02250118-495</td></tr><tr><td>AIR/FLUID SEPARATOR</td><td>250034-112</td></tr></table> <table><tr><th>DESCRIPTION</th><th>SULLAIR P/N</th></tr><tr><td>RETURN LINE STRAINER</td><td>241772</td></tr><tr><td>REGULATOR/BLOWDOWN MANIFOLD-100 PSI</td><td>02250147-737</td></tr><tr><td>COMPRESSOR INLET VALVE</td><td>02250109-684</td></tr></table> LUBRICANTS REFER TO SULLAIR AND JOHN DEERE MANUALS FOR COMPRESSOR & ENGINE LUBRICATING OIL RECOMMENDATIONS. 02250144-013 REV 01	DESCRIPTION	SULLAIR P/N	PRIMARY AIR FILTER ELEMENT	02250102-158	COMPRESSOR OIL FILTER	02250050-602	ENGINE OIL FILTER	02250144-815	ENGINE FUEL FILTER	02250144-814	FUEL-WATER SEPARATOR	02250118-495	AIR/FLUID SEPARATOR	250034-112	DESCRIPTION	SULLAIR P/N	RETURN LINE STRAINER	241772	REGULATOR/BLOWDOWN MANIFOLD-100 PSI	02250147-737	COMPRESSOR INLET VALVE	02250109-684
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COMPRESSOR INLET VALVE	02250109-684																						

19C

Section 7 ILLUSTRATIONS AND PARTS

7.17 DECALS (CONTINUED)

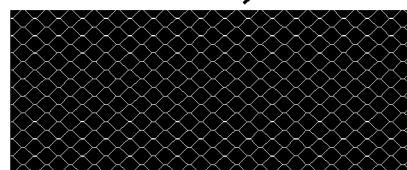
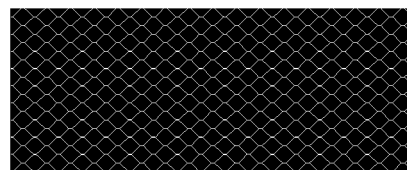
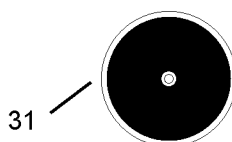
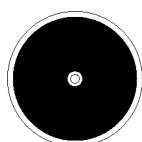
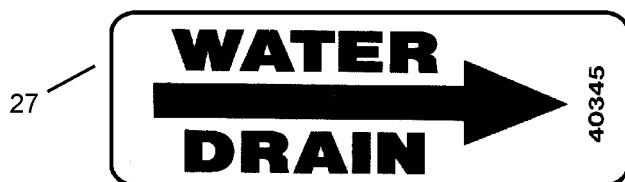
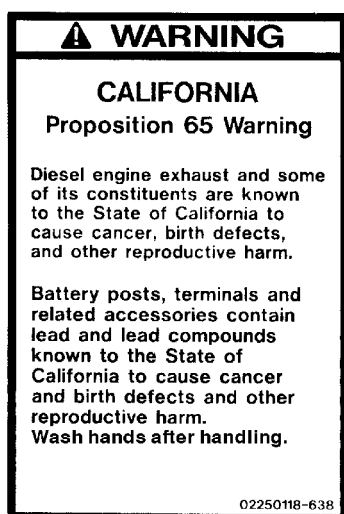
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
19A	decal, maintenance 185 DPQ 60HP CAT	02250148-628	1
19B	decal, maintenance 185 DPQ Perkins	02250148-627	1
19C	decal, maintenance 185 John Deere, 60HP	02250144-813	1
20	decal, Sullair AWF - 5 year warranty	02250097-455	1
21	decal, Sullair AWF	250032-902	1
22	decal, axle lub instructions	250042-543	2
23	decal, drawbar installation	02250142-050	1

Continued on page 113

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

7.17 DECALS



Section 7 ILLUSTRATIONS AND PARTS

7.17 DECALS (CONTINUED)

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
24	decal, Need An Air Tool	02250138-370	1
25	decal, warning proposition 65 (U.S. compressors only)	02250118-638	1
26	decal, ISO 9001	02250057-624	1
27	decal, water drain	040345	2
28	reflector, red	040103	2
29	reflector, amber	250034-319	2
30	reflector, red 3" truck-lite	02250052-701	2
31	reflector, yellow 3" truck-lite	02250052-702	2

Continued on page 115

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

7.17 DECALS

START - STOP PROCEDURE

TO START:

(READ ALL STEPS PRIOR TO STARTING THE COMPRESSOR)

- 1) CHECK ENGINE OIL, COOLANT, FUEL, AND COMPRESSOR OIL LEVELS. DRAIN WATER FROM THE FUEL-WATER SEPARATOR.
- 2) CLOSE AND LATCH CANOPY. OPEN INSTRUMENT PANEL DOOR.
- 3) CLOSE ALL SERVICE VALVES AND TURN THE WARM-UP CONTROL VALVE TO "START" POSITION.
- 4) IF ENGINE IS COLD PUSH "COLD WEATHER STARTING" BUTTON IN FOR 6-8 SECONDS. THEN RELEASE.
- 5) DEPRESS THE RED ENGINE SWITCH ALL THE WAY TO THE START POSITION. HOLD SWITCH UNTIL ENGINE STARTS, THEN RELEASE SWITCH.

NOTE: *DO NOT CRANK ENGINE FOR MORE THAN 15 SECONDS. IF ENGINE DOES NOT START, TURN STARTER SWITCH TO "OFF" POSITION. WAIT 1 MINUTE AND REPEAT STEPS 4-5.*

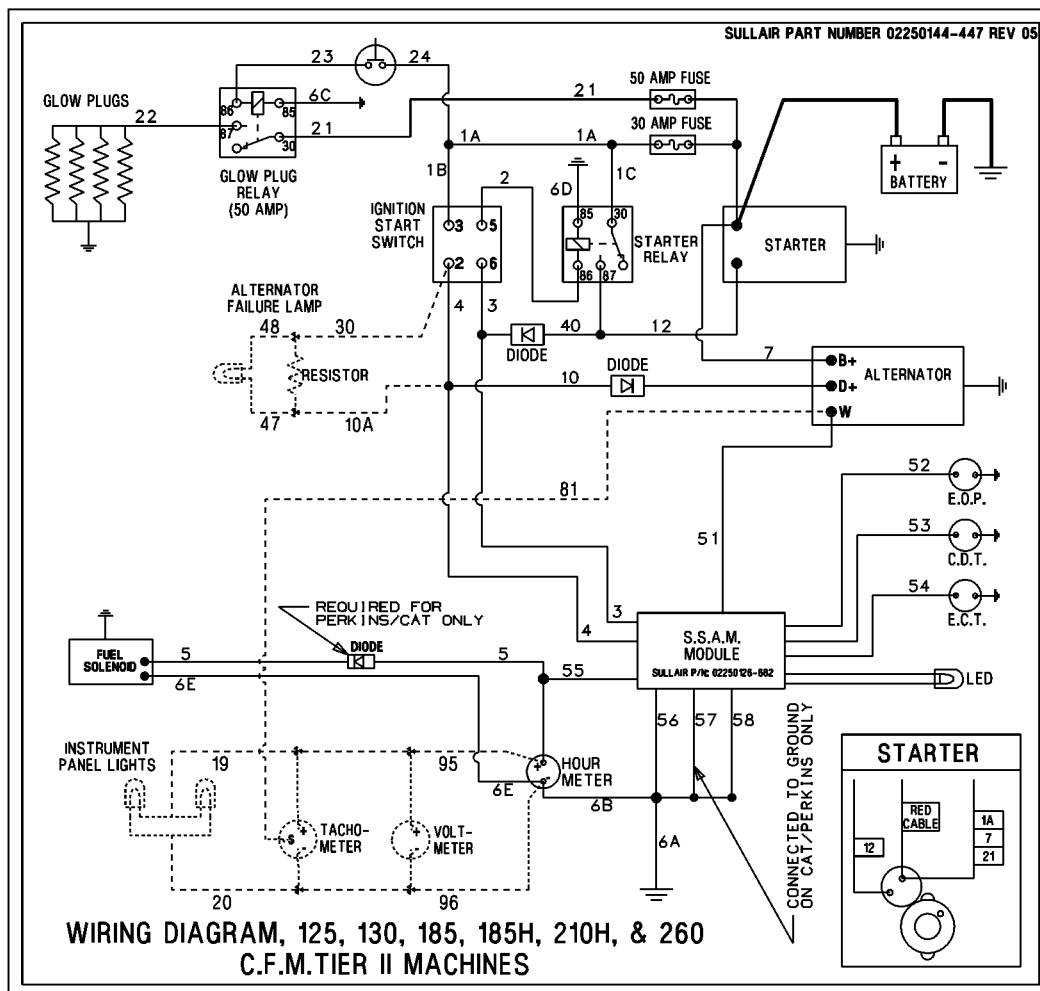
- 6) ONCE ENGINE IS RUNNING AND BEFORE THE SSAM LIGHT GOES OFF (SSAM LIGHT WILL GO OFF AFTER 30 SECONDS), TURN WARM-UP CONTROL VALVE TO "RUN" POSITION.

TO STOP:

- 1) CLOSE ALL SERVICE VALVES. OPERATE AT IDLE FOR 5 MINUTES.
- 2) TURN STARTER SWITCH TO "OFF" POSITION.

EMERGENCY STOP: PRESS RED ENGINE SWITCH TO THE "STOP/OFF" POSITION.

02250140-065 REV.00



Section 7 ILLUSTRATIONS AND PARTS

7.17 DECALS (CONTINUED)

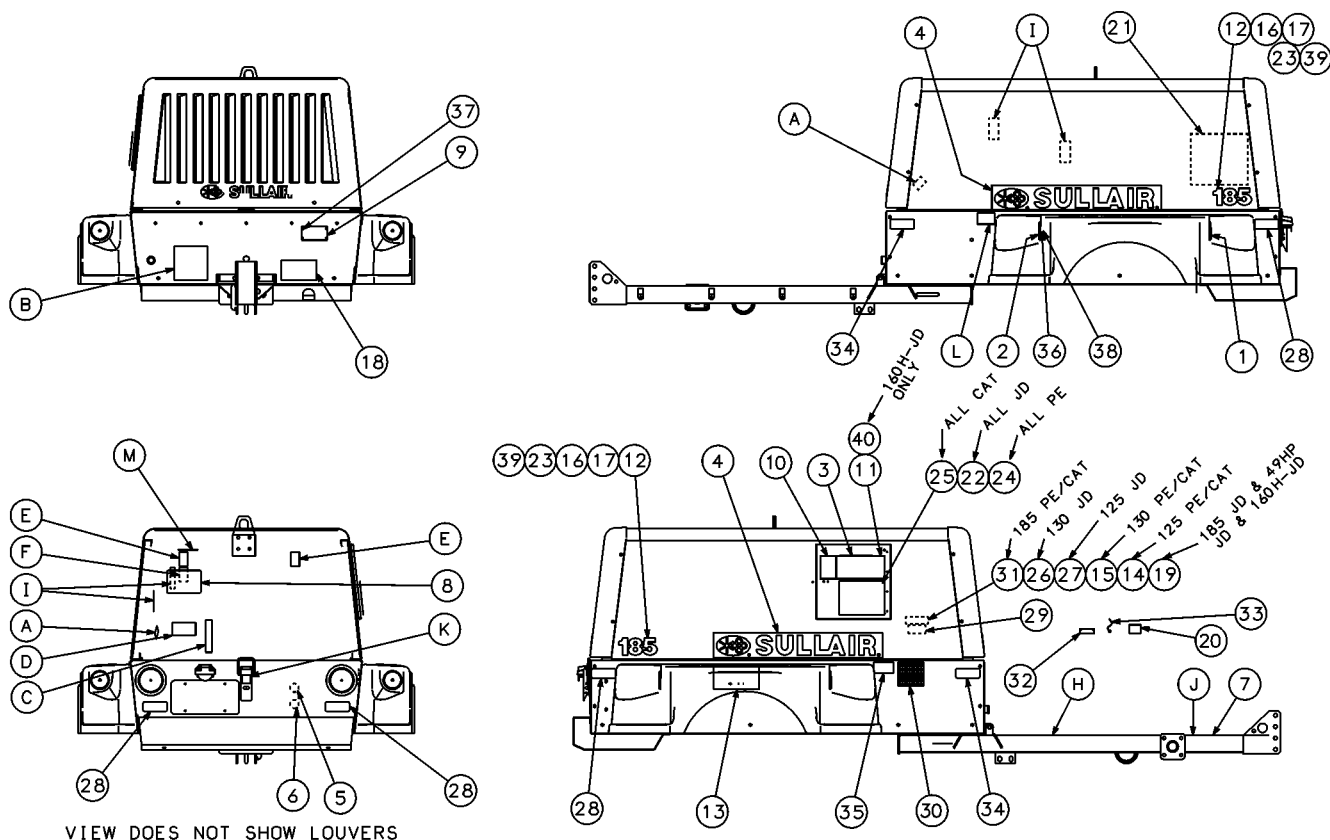
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
32	decal, operation instructions	02250140-065	1
33	decal, wiring diagram	02250144-447	1
34	nameplate, Sullair serial no. (I)	02250108-078	1
35	tag, rpm (I)	250025-437	1
26	seal, wire (I)	250026-962	1
28	nut, hex locking (I)	825501-070	4
29	rivet, pop (I)	843102-038	1
30	screw (I)	875901-075	4

(I) Not shown.

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

7.18 DECAL LOCATIONS - ALL MODELS



REFERENCE SULLAIR P/N 02250138-928
DECAL & IDENT GRP, 185P-CA C/S

NOTES:

1. ITEMS 28 & 34 TO COVER HOLE PATTERN IN PANELS ON BOTH SIDES OF COMPRESSOR.
2. ITEMS 7, H, J, L, & N ARE NOT USED ON A LESS RUNNING GEAR OPTION. LESS RUNNING GEAR OPTION DOES NOT INCLUDE DRAWBAR OR FENDERS. ANY DECALS PERTAINING TO THESE PARTS ARE NOT REQUIRED.
3. ITEM 20 TO BE LOCATED ON TOP OF ENGINE, NEAR OIL FILL.

250023-016			DECAL, GROUP 100-3750	
REF.	QUANTITY	PART NO.	DESCRIPTION	LOCATION
A	2	040345	DECAL, WATER DRAIN	ON ENGINE NEAR DRAINCOCK (CURBSIDE) ONE AT REAR BAFFLE (STREET SIDE)
B	1	250028-258	DECAL, WARNING 100-1600	SHOWN
C	1	049685	SIGN, WARNING COMPR. OIL FILL CAP.	SHOWN (ON RECEIVER NEAR FILL CAP)
D	1	250032-902	DECAL, SULLAIR AWF INSTRUCTION	SHOWN (ON RECEIVER NEAR FILL CAP)
E	2	049965	SIGN, WARNING SEVER BELT FAN PORT.	EACH SIDE OF FAN GUARD ON COOLER SHROUD
F	1	049964	SIGN, WARNING SEVER BELT DRIVE	ON ALTERNATOR
H	1	250005-578	SIGN, CAUTION TOWING 55 MPH	SHOWN (NOT USED ON LESS RUNNING GEAR OPTION)
I	2	407408	SIGN, WARNING HOT SURFACES	SHOWN (ON LIFTING BAIL BOTH SIDES)
J	1	408919	SIGN, WARNING CRUSH/SEVER	SHOWN (NOT USED ON LESS RUNNING GEAR OPTION)
K	3	250038-030	DECAL, CAUTION DOORS CLOSED	SHOWN (ON FACE OF CANOPY LATCH) TWO DECALS NOT USED
L	2	250042-543	DECAL, AXLE LUBE INSTRUCTIONS	SHOWN (NOT USED ON LESS RUNNING GEAR OPTION)
M	1	02250051-826	DECAL, WARNING PRESSURIZED CLG SYS	ON TOP COOLER BAFFLE ABOVE RADIATOR CAP
N	1	02250126-044	DECAL, INSTALL OF DRAWBAR 185	NOT USED

02250141-293R04

Section 7 ILLUSTRATIONS AND PARTS

7.18 DECAL LOCATIONS - ALL MODELS

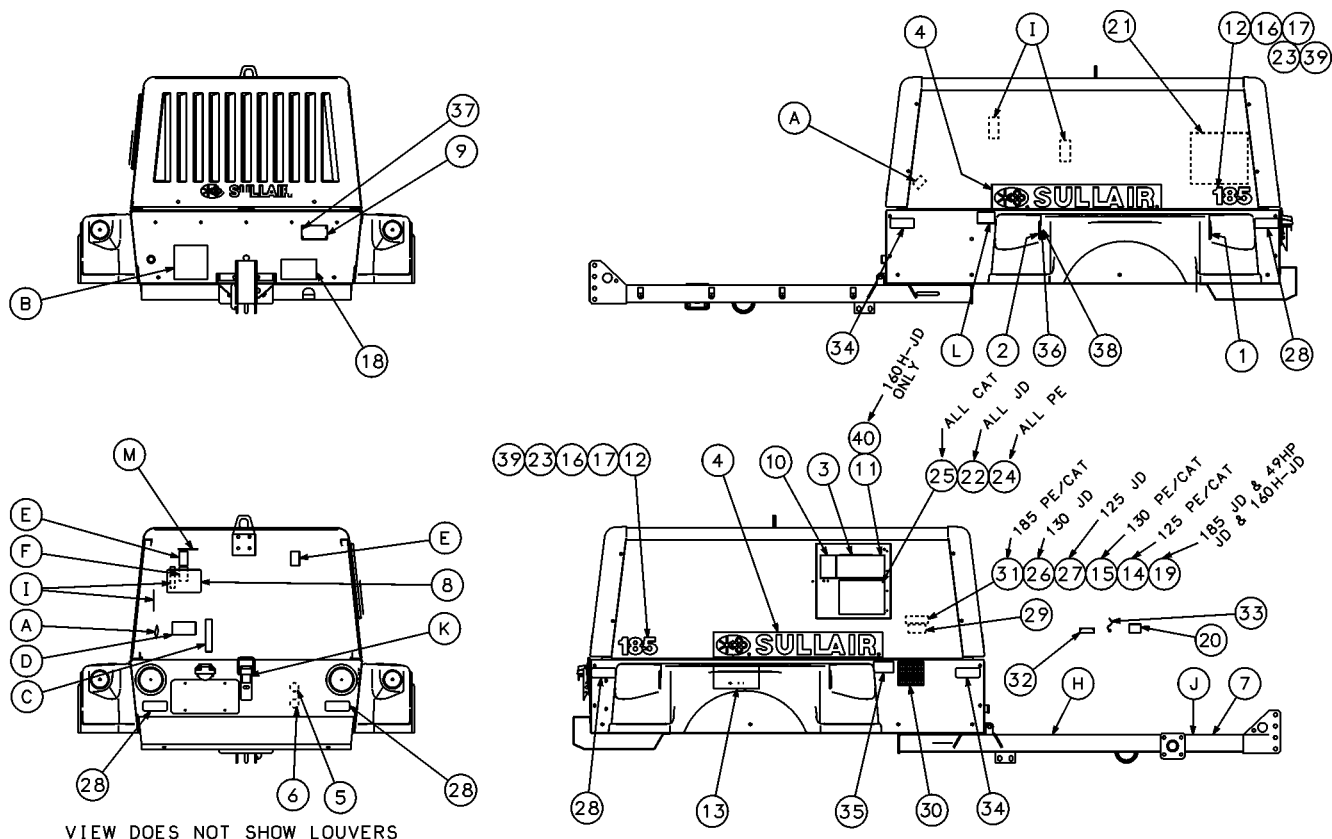
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	reflector, red 3" truck-lite	02250052-701	2
2	reflector, yellow 3" truck-lite	02250052-702	2
3	decal, ISO 9001 blk 3.44x5.75	02250057-624	1
4	decal, "Sullair" 3.50 x 28.0	02250059-058	2
5	decal, earth ground	02250075-046	1
6	decal, pe designation	02250075-540	1
7	decal, warning tongue heavy 100-375	02250077-929	1
8	decal, 5 year warranty	02250097-455	1
9	nameplate, Sullair serial no. 185q-8f	02250108-078	1
10	decal ,lead warning proposition 65	02250118-638	1
11	decal, operator instruction - perkins	02250140-065	1
12	decal, "185" 3 inches high	02250140-918	2
13	decal, "need an air tool?" sml	02250140-925	1
14	decal, rated 2550 idle 2550 rpm	02250141-346	1
15	decal, rated 2650 idle 2650 rpm	02250141-347	1
16	decal, "125" 3 inches high	02250141-348	1
17	decal, "130" 3 inches high	02250141-349	1
18	decal, drwbr instl 185q pe std	02250142-050	1
19	decal, rated 2800 idle 2000	02250142-212	1
20	decal, caution- do not overfill	02250142-530	1
21	decal, wiring diagram 185 pe/cat/jd tier ii	02250144-447	1
22	decal, maintenance 185dpq 60hp john deer	02250154-344	1
23	decal, 49hp	02250147-899	2
24	decal, maintenance 185dpq 60hp perkins	02250154-346	1
25	decal, maintenance 185dpq 60hp caterpilla	02250154-345	1
26	decal, rated 2650 idle 2000	02250148-780	1
27	decal, rated 2550 idle 2000	02250148-781	1
28	reflector, red 1.68 x 4.25	040103	4
29	decal, diesel fuel	040248	1
30	decal, noise emission control	049463	1
31	decal, rated 2800 idle 2200	250023-694	1
32	tag, rpm warranty void	250025-437	1
33	seal, wire w/lead disk	250026-962	1

Continued on page 119

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7 ILLUSTRATIONS AND PARTS

7.18 DECAL LOCATIONS - ALL MODELS



NOTES:

1. ITEMS 28 & 34 TO COVER HOLE PATTERN IN PANELS ON BOTH SIDES OF COMPRESSOR.
2. ITEMS 7, H, J, L, & N ARE NOT USED ON A LESS RUNNING GEAR OPTION. LESS RUNNING GEAR OPTION DOES NOT INCLUDE DRAWBAR OR FENDERS. ANY DECALS PERTAINING TO THESE PARTS ARE NOT REQUIRED.
3. ITEM 20 TO BE LOCATED ON TOP OF ENGINE, NEAR OIL FILL.

REFERENCE SULLAIR P/N 02250138-928
DECAL & IDENT GRP, 185P-CA C/S

250023-016		DECAL, GROUP 100-375Q		
REF.	QUANTITY	PART NO.	DESCRIPTION	LOCATION
A	2	040345	DECAL, WATER DRAIN	ON ENGINE NEAR DRAINCOCK (CURBSIDE) ONE AT REAR BAFFLE (STREET SIDE)
B	1	250028-258	DECAL, WARNING 100-1600	SHOWN
C	1	049685	SIGN, WARNING COMPR. OIL FILL CAP.	SHOWN (ON RECEIVER NEAR FILL CAP)
D	1	250032-902	DECAL, SULLAIR AWF INSTRUCTION	SHOWN (ON RECEIVER NEAR FILL CAP)
E	2	049965	SIGN, WARNING SEVER BELT FAN PORT.	EACH SIDE OF FAN GUARD ON COOLER SHROUD
F	1	049964	SIGN, WARNING SEVER BELT DRIVE	ON ALTERNATOR
H	1	250005-578	SIGN, CAUTION TOWING 55 MPH	SHOWN (NOT USED ON LESS RUNNING GEAR OPTION)
I	2	407408	SIGN, WARNING HOT SURFACES	SHOWN (ON LIFTING BAIL BOTH SIDES)
J	1	408919	SIGN, WARNING CRUSH/SEVER	SHOWN (NOT USED ON LESS RUNNING GEAR OPTION)
K	3	250038-030	DECAL, CAUTION DOORS CLOSED	SHOWN (ON FACE OF CANOPY LATCH) TWO DECALS NOT USED
L	2	250042-543	DECAL, AXLE LUBE INSTRUCTIONS	SHOWN (NOT USED ON LESS RUNNING GEAR OPTION)
M	1	02250051-826	DECAL, WARNING PRESSURIZED CLG SYS	ON TOP COOLER BAFFLE ABOVE RADIATOR CAP
N	1	02250126-044	DECAL, INSTALL OF DRAWBAR 185	NOT USED

02250141-293R04

Section 7 ILLUSTRATIONS AND PARTS

7.18 DECAL LOCATIONS - ALL MODELS (CONTINUED)

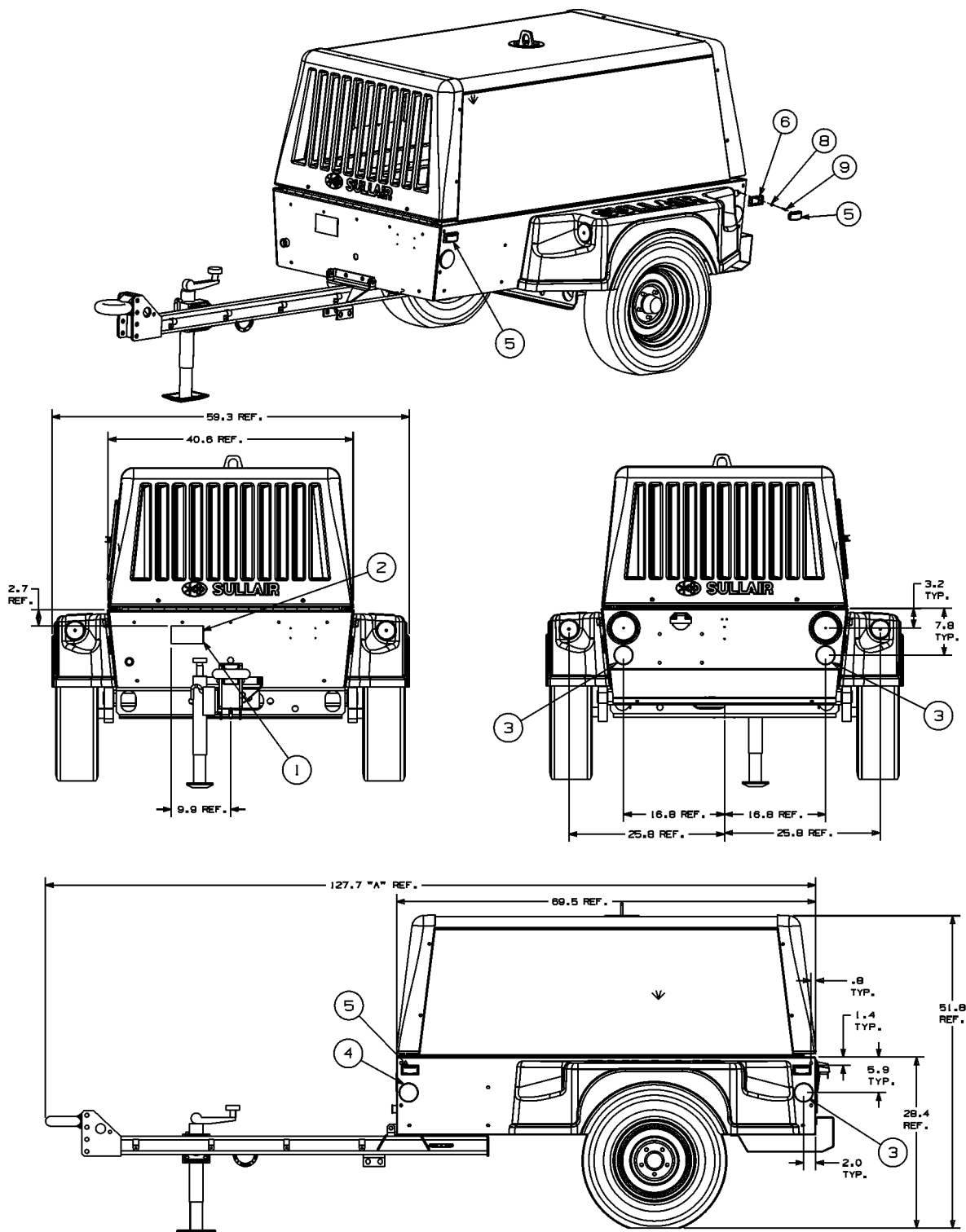
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
34	reflector, amber 1.68 x 4.25	250034-319	2
35	decal, axle lube instructions	250042-543	1
36	nut, hex locking #8-32	825501-070	4
37	rivet, pop 1/8 x 3/8	843102-038	4
38	screw, flt phillips 8-32 x 3/4"	875901-075	4
39	decal, "160H" 3 inches high	02250153-399	2
40	decal, operator procedure start stop 185	02250133-511	1

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.19 CANADIAN TAIL / CLEARANCE LIGHTS - ALL MODELS



ENGINEERING NOTES:

1. LOCATIONS, TYPE OF LIGHTS, & REFLECTORS PER CANADIAN TRANSPORT DIRECTIVE CMVSS108.
2. ALL LIGHTS MUST HAVE S.A.E. MARKINGS.

3. ALL REFLEX REFLECTORS MUST HAVE D.O.T. MARKINGS.
4. DIMENSIONS ARE IN INCHES AND [MILLIMETERS].
5. ALL DIMENSION TOLERANCES = $\pm .25"$ (6.3mm)

OPTION	ADD TO DIMENSION "A"
STANDARD EYE	0
SURGE BRAKES	11.75 [300]
BALL HITCH	.75 [19]
EXTENDED DRAWBAR WITH STANDARD EYE	21.25 [540]

02250141-883R00

Section 7 ILLUSTRATIONS AND PARTS

7.19 CANADIAN TAIL / CLEARANCE LIGHTS - ALL MODELS

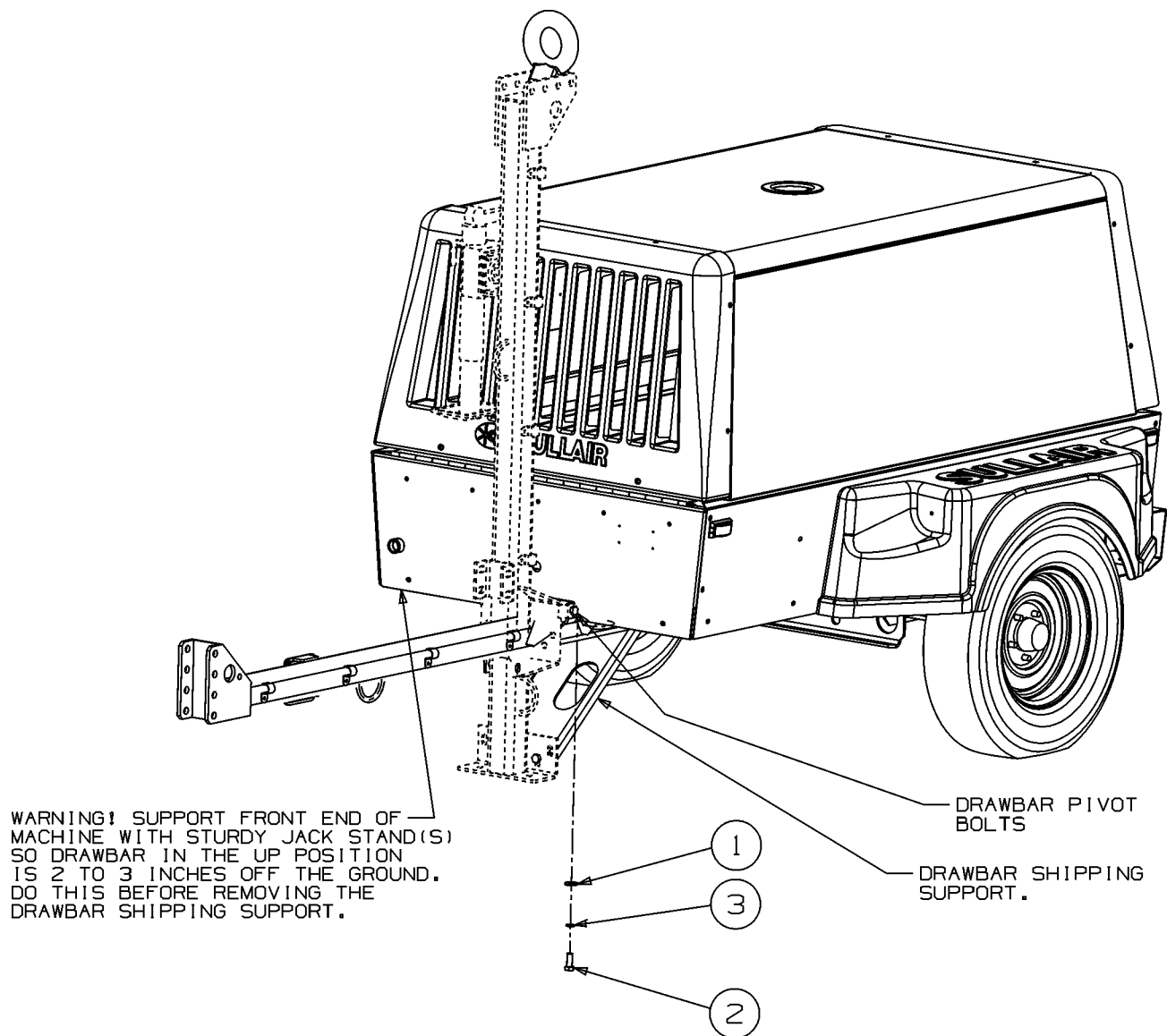
<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	npl, vin canada dual language	02250101-371	1
2	cvr, vin canada	02250101-403	1
3	reflector, 3" dia adhs mtg red	02250129-278	4
4	reflector, 3" adhs mtg yellow	02250129-279	2
5	lamp, led side clearance red	02250139-566	4
6	hldr, lamp s i de clearance blk	02250139-571	4
7	harn,wrg std lt 4-wire 1850 60hp	02250139-964	1
8	nut, hex locking #10-24	825502-083	8
9	screw, rnd phillips 10-24 x 3/4"	876002-075	8

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

Section 7

ILLUSTRATIONS AND PARTS

7.20 DRAWBAR INSTALLATION - STANDARD



DRAWBAR/LOOSE PARTS INSTALLATION

WARNING! SUPPORT FRONT END OF MACHINE WITH STURDY JACK STAND(S) SO DRAWBAR IN THE UP POSITION IS 2 TO 3 INCHES OFF THE GROUND. DO THIS BEFORE REMOVING THE DRAWBAR SHIPPING SUPPORT.

- 1) REMOVE SHIPPING SUPPORT FROM THE COMPRESSOR AND DRAWBAR.
- 2) SLIGHTLY LOOSEN THE DRAWBAR PIVOT BOLTS. DO NOT REMOVE THEM.
- 3) CAREFULLY SWING THE DRAWBAR TO IT'S DOWN POSITION. INSTALL AS SHOWN WITH PROVIDED HARDWARE. TORQUE ALL 8 OF THE 1/2" BOLTS TO 77 FT-LBS. NOTE: THE BOLTS AND FRAME NUTS TO BE CLEAN AND FREE OF OIL. RETIGHTEN THE DRAWBAR PIVOT BOLTS.
- 4) REMOVE SHRINK WRAP FROM JACK STAND AND CHAINS. PUT JACK IN DOWN POSITION AND REMOVE YOUR MACHINE SUPPORTS.

02250141-874R00

Section 7 ILLUSTRATIONS AND PARTS

7.20 DRAWBAR INSTALLATION - STANDARD

<i>key number</i>	<i>description</i>	<i>part number</i>	<i>quantity</i>
1	washer, pl-b reg pltd 1/2	838208-112	8
2	capscr, hx gr5 1/2-13 x 1 1/4 plt	875608-125	8
3	washer, nord -lock pl 1/2yy	878608-077	8

PLEASE NOTE: WHEN ORDERING PARTS, INDICATE THE SERIAL NUMBER OF COMPRESSOR

NOTES

⚠ WARNING

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.

Battery posts, terminals and related accessories contain lead and lead compounds known to the State of California to cause cancer and birth defects and other reproductive harm.
Wash hands after handling.

02250118-638

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