

A75, A100 AND A200 AIR COMPRESSORS



JOHN DEERE

OPERATORS MANUAL

**A75, A100 AND A200
AIR COMPRESSORS**

OMTY3982 J1 English

**JDM DIVISION
OMTY3982 J1**

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ENGLISH



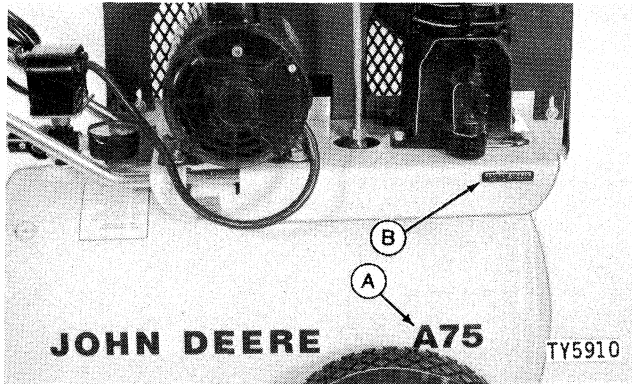
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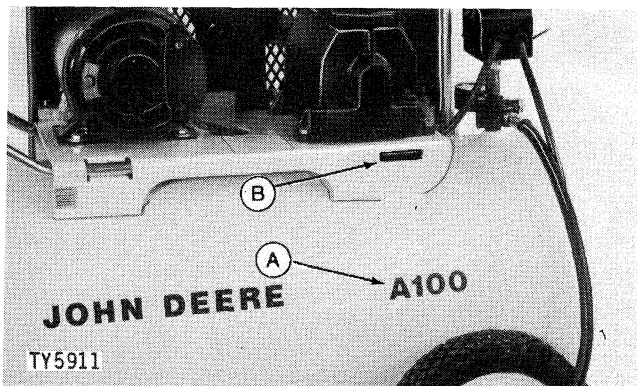
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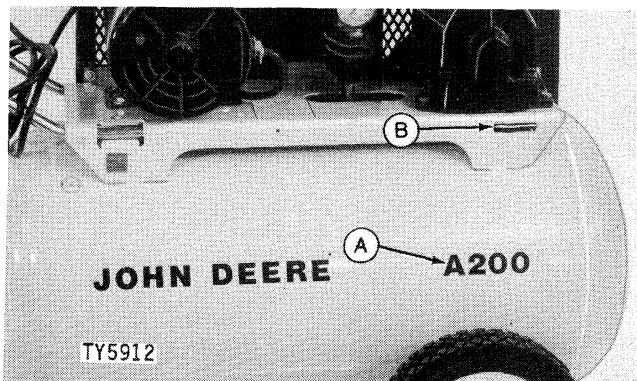
Introduction



A75 Air Compressor



A100 Air Compressor



A200 Air Compressor

Record the model number and serial number of your air compressor in the space provided below.

JOHN DEERE AIR COMPRESSOR	
Model No.	_____
Serial No.	_____
Date of Purchase	_____

(To be filled in by purchaser)



This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

This operator's manual contains SI Metric equivalents which follow immediately after the U.S. customary units of measure.

A—Model Number
B—Serial Number

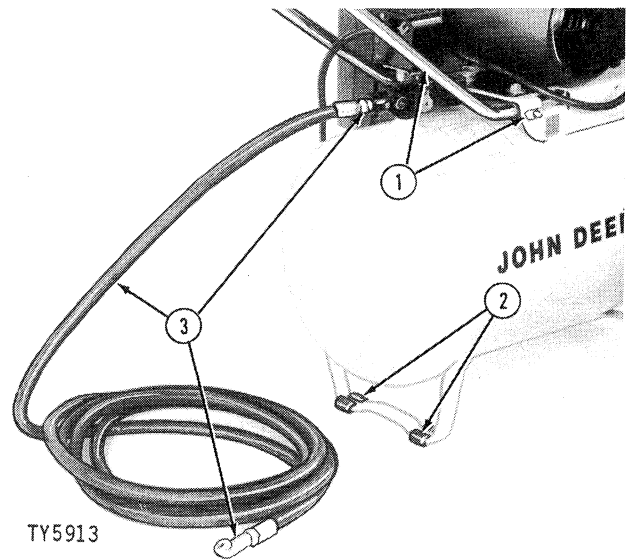


Assembly

Remove air compressor from carton and check to see that no transportation damages have occurred.

A75 AND A100 AIR COMPRESSOR

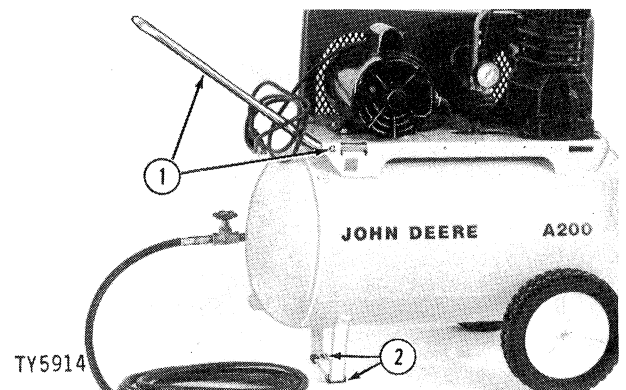
1. Install handle and tighten screw.
2. Install rubber feet.
3. Use John Deere pipe sealant (TY9374 - 6 cc or TY9375 - 50 cc) on threads and install nipple, air hose and air chuck.
4. Remove tape from power cord and add oil to crankcase. See "Lubrication," page 18.

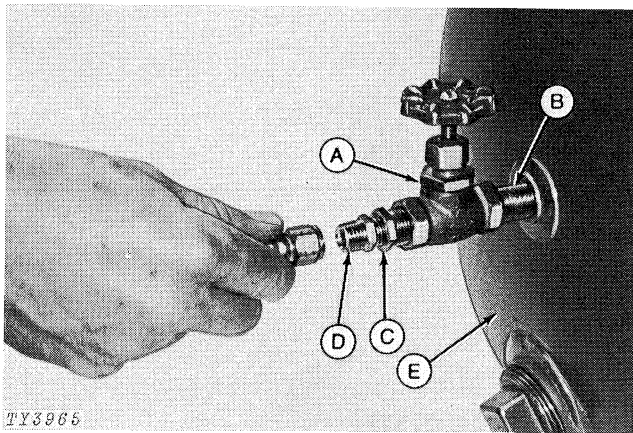


A75 Illustrated

A200 AIR COMPRESSOR

1. Install handle and tighten screw.
2. Install rubber feet.

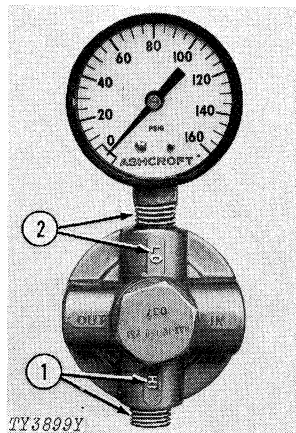




3. Use John Deere pipe sealant (TY9374 - 6 cc or TY9375 - 50 cc) on threads and install nipple (B), shut-off valve (A), bushing (C), adapter (D) to air tank (E).
4. Install air hose and air chuck.
5. Remove tape from power cord and add oil to crankcase. See "Lubrication," page 18.

A—Shut-off Valve
 B—Nipple
 C—Bushings
 D—Adapter
 E—Air Tank

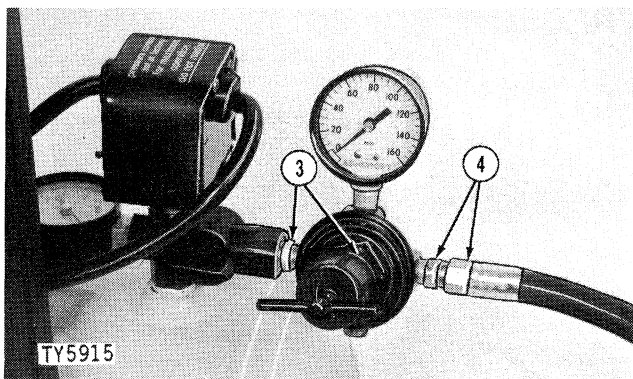
TY8614 PRESSURE REGULATOR WITH GAUGE (OPTIONAL)



Before assembly, apply John Deere pipe sealant (TY9374 - 6 cc or TY9375 - 50 cc) on all regulator and attachment threads.

Regulator ports are identified on underside of body.

1. Thread 1/4-inch pipe plug into "HI" port.
2. Thread pressure gauge into "LO" port.



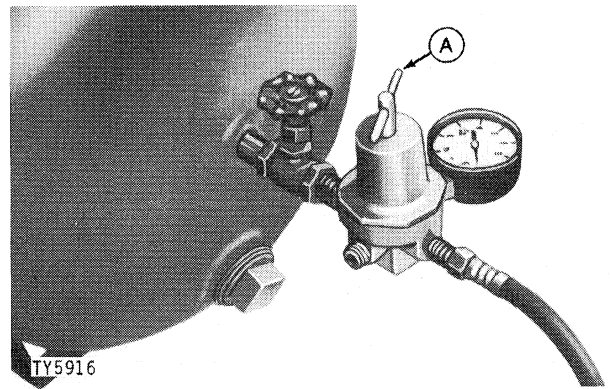
A75 Illustrated

3. Remove air hose and thread pressure regulator onto adapter using the "IN" port.
4. Thread adapter into pressure regulator and install air hose in the "OUT" port.

Pressure at "OUT" port of regulator is adjusted by turning adjusting screw (A). Turn clockwise to increase pressure and counterclockwise to reduce pressure. Once set, regulator will maintain desired pressure without further adjustment.



CAUTION: The TY8614 Regulator is designed for air applications only. The regulator must never be used to control flow of oxygen or other compressed gases.



A200 Illustrated

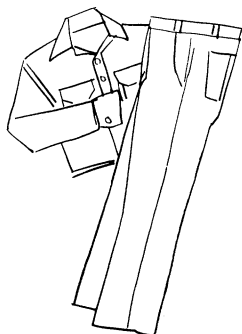


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Safety



TY3615



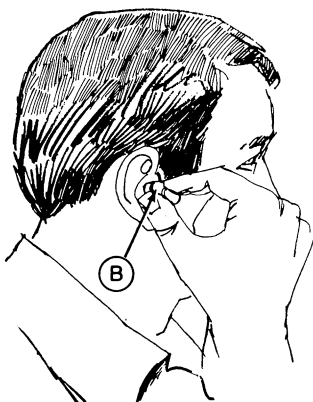
Wear Adequate Personal Protective Equipment

Protect your eyes when using compressed air to remove dust or loose debris.

Wear protective clothing when spraying. For paint spraying, wear a cap, goggles, and a respirator or face mask. For chemical sprays, follow directions on chemical package label for application and for the safety of the operator, pets, livestock, plants, and others in the affected area. Special precautions may have to be taken to guard against eye damage, inhalation, skin contact, and other potential risks.

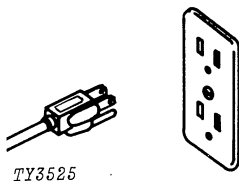


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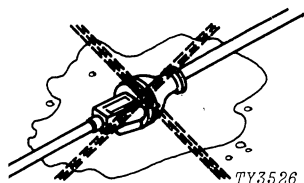


Protect Against Noise

Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noises.



TY3525



TY3526

Electrical Safety

The plug end of the power cord is equipped with a third (ground) prong. Do not remove this prong. Be sure to plug air compressor into an outlet that is properly grounded and will accommodate a 3-prong plug.

Disconnect the power cord from the electrical outlet before servicing compressor.

If an extension cord is needed, use only a three-wire cord of the proper gauge. See "Preparation," page 11.

Make certain the connection between the power cord and the extension cord is not exposed to water.

Operate Safely

Before operating compressor, make certain drive belt guard is properly installed.

Do not operate compressor in a tightly enclosed space or where circulating air cannot cool compressor and motor.

Disconnect compressor from power supply and release all supply line pressure before working on compressor or auxiliary equipment.

Do not over inflate tires, air bags, boats, etc.

Handle paints and other spray liquids carefully. Follow manufacturer's directions for mixing and spraying.

Do not tamper with factory-set relief valves or attempt to adjust factory-set pressure switches on overload controls.

Make sure all auxiliary equipment and attachments are rated to operate safely at the compressor's maximum air pressure (psi).

Don't spray flammable mixtures near a heater or open flame or in the presence of pilot lighted appliance. Never spray flammable mixtures on or into any operating equipment such as motors or engines, or into any electrical switches or controls connected to live circuits.

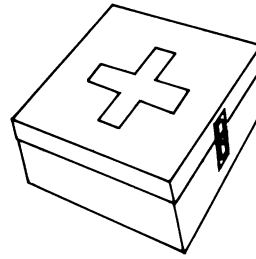
Do not place the compressor on untested or insecure scaffolds. Keep long power cords and supply hoses out of the way - where you cannot trip over them.

Watch out for people and animals who may wander into the spray path or area.

Release all tank and supply line pressures before working on the compressor or air system components.

Do not touch the compressor during or immediately after operation. While operating the compressor becomes very hot; touching it could cause a severe burn.

Be prepared if an accident or fire should occur. Know where the first aid kit and fire extinguisher are located. Know how to use them.



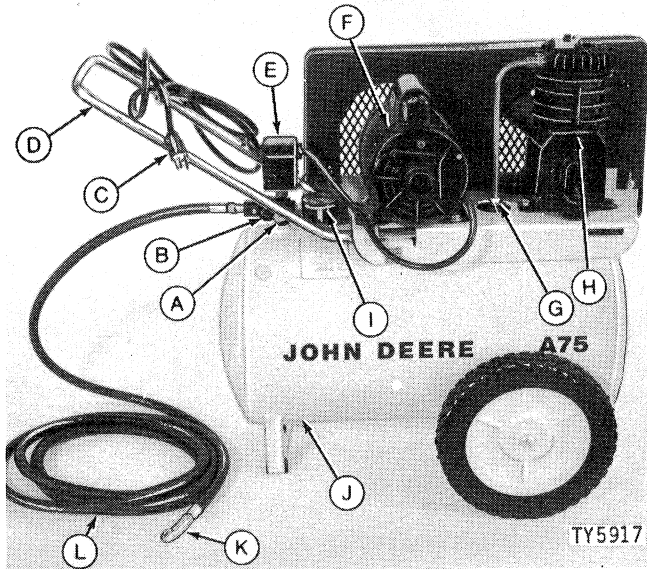
TY3709

Modifications

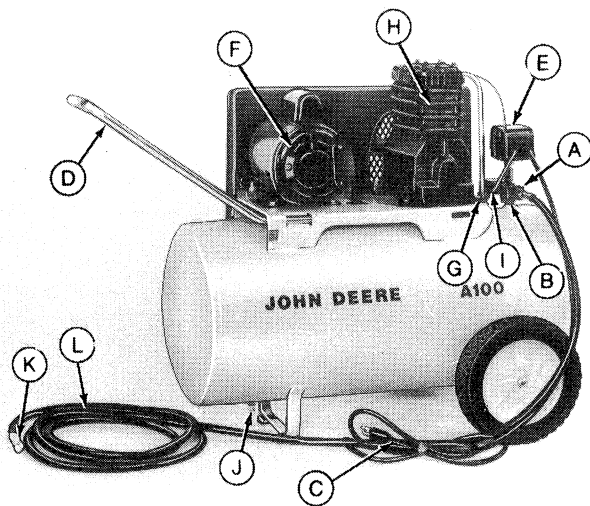
Unauthorized modifications to the compressor may impair the function and/or safety and affect compressor life.



Identification

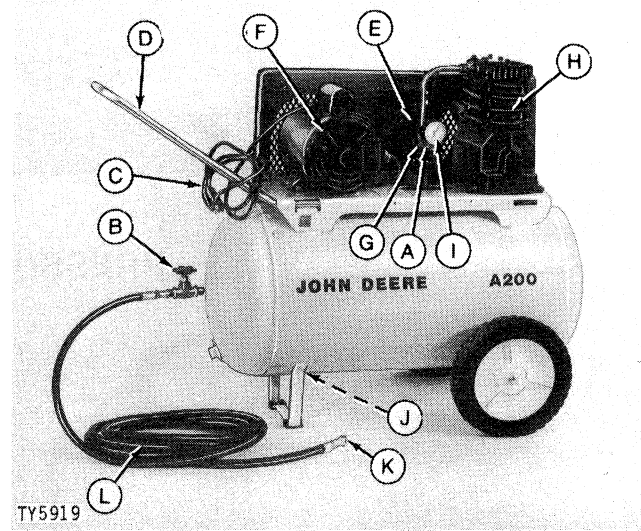


A75 Compressor



A100 Compressor

- A—Relief Valve
- B—Air Delivery Control
- C—Power Cord
- D—Handle
- E—Pressure Switch
- F—Motor
- G—Check Valve
- H—Compressor
- I—Pressure Gauge
- J—Drain Cock
- K—Air Chuck
- L—Air Hose

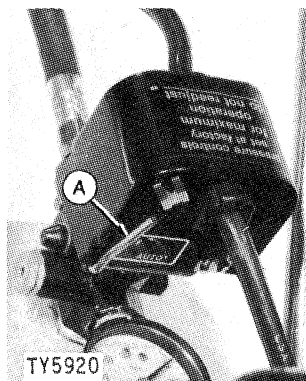


A200 Compressor

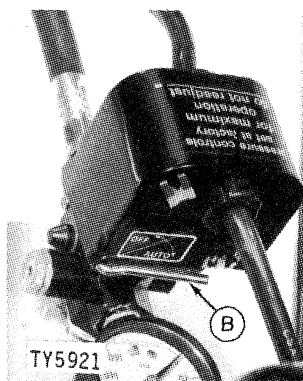


Controls

PRESSURE SWITCH



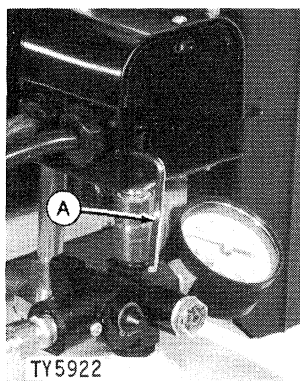
A75 Pressure Switch



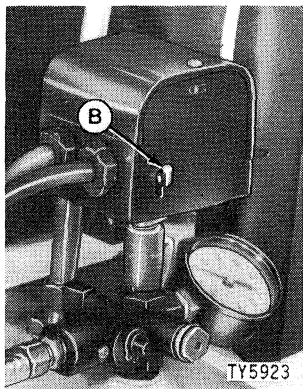
CAUTION: Pressure switch should not be adjusted or tampered with. If, during operation, tank pressure rises to where relief valve opens, pressure switch should be examined, and if necessary, replaced. See your John Deere dealer.

“OFF” Position (A)

Motor will not start and compressor will not run even though power cord is plugged in.

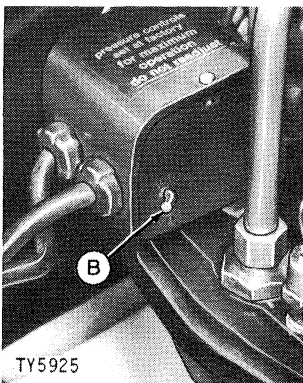
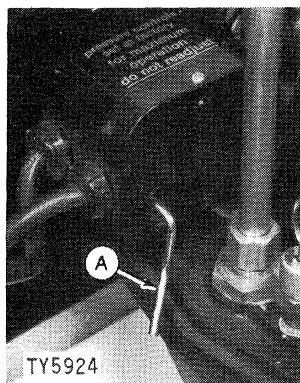


A100 Pressure Switch



“AUTO” Position (B)

When power cord is plugged in, motor and compressor will run intermittently. Whenever tank pressure drops below “ON” limit of pressure switch, motor will start. It will shut down when pressure switch senses “OFF” limit.

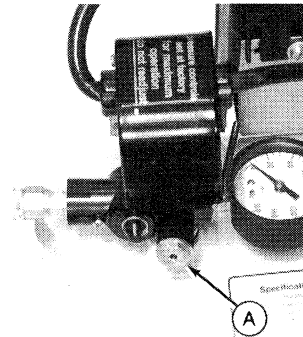


A200 Pressure Switch

RELIEF VALVE

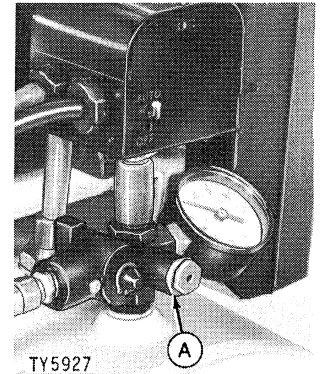


CAUTION: The tank is protected by a relief valve (A). Pressure in excess of rated tank capacity will actuate relief valve, (see "Specifications"). Relief valve is factory-set for safe operation. Do not change relief valve setting.



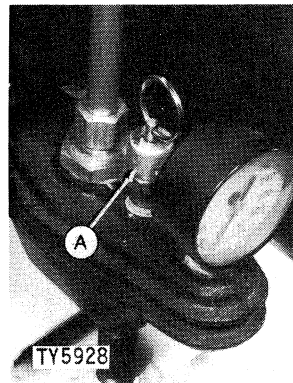
TY5926

A75



TY5927

A100



TY5928

A200

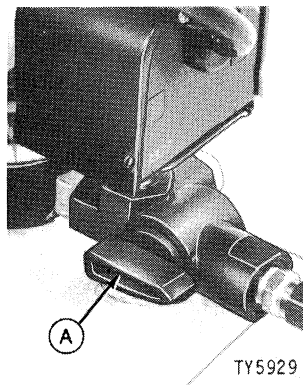
AIR DELIVERY CONTROL

"OPEN" Position (A)

Air will flow from tank.

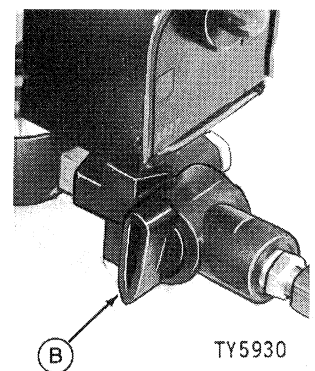
"CLOSED" Position (B)

Air will not flow from tank.



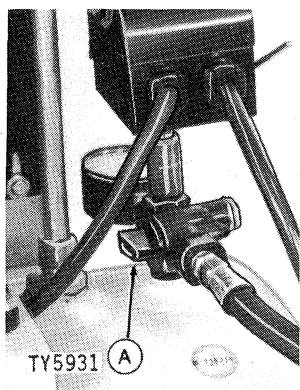
TY5929

A75

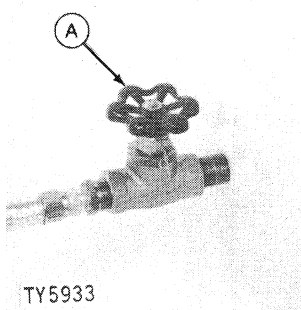
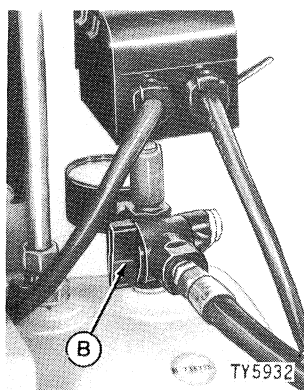


TY5930

AIR DELIVERY CONTROL—Continued



A100



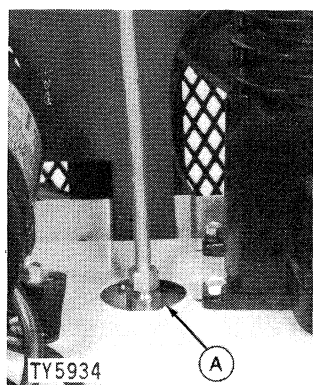
A200

NOTE: Air flow on A200 compressor is controlled by globe valve (A).

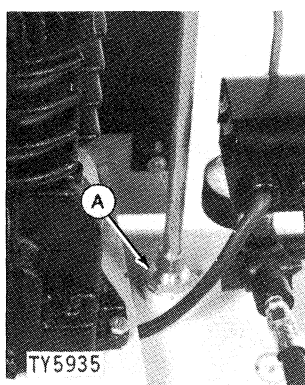
Turn valve counterclockwise to allow air to flow from tank.

Turn valve clockwise to shut off air flow from tank.

CHECK VALVE

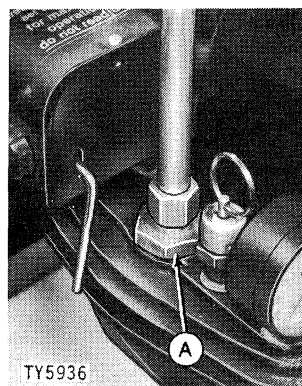


A75



A100

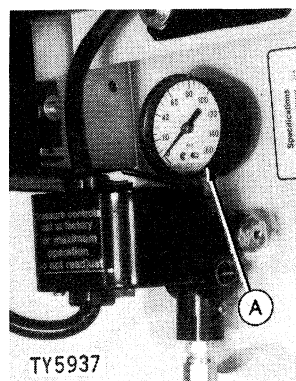
Check valve (A), is in pressure line between compressor head and air tank. It opens when compressor is operating and closes when compressor stops. This prevents air from flowing back into compressor head.



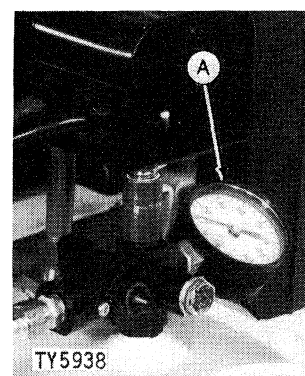
A200

PRESSURE GAUGE

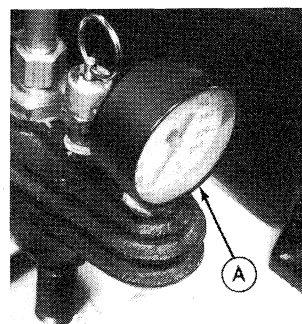
Pressure Gauge (A) shows the pressure per square inch (psi) reading in air tank.



A75



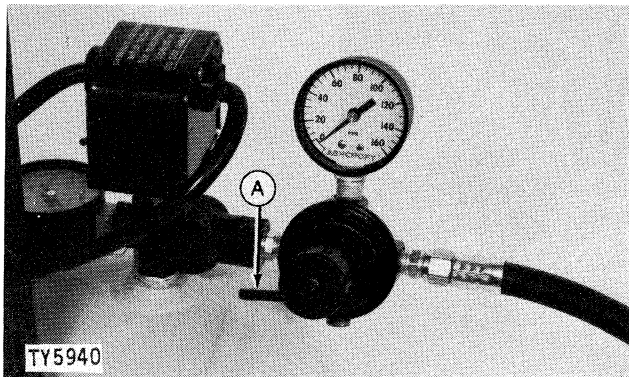
A100



TY5939

A200

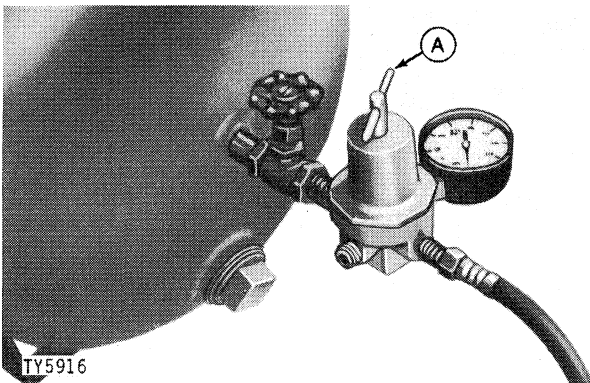
PRESSURE REGULATOR (OPTIONAL)



A75 (Illustrated) and A100

Pressure regulator is installed in delivery line at compressor outlet. See "Assembly," page 2.

Pressure at "OUT" port of regulator is adjusted by turning adjusting screw (A). Turn it clockwise to increase pressure and counterclockwise to reduce pressure. Once set, regulator will maintain desired pressure without further adjustment.



A200



CAUTION: The TY8614 Regulator is designed for air applications only. The regulator must never be used to control flow of oxygen or other compressed gases.



Preparation

IMPORTANT: Do not operate the compressor until the crankcase oil supply has been checked. Starting the compressor with inadequate oil in the crankcase could cause serious damage to the compressor components, refer to "Lubrication," page 18.

After initial oil fill, run the compressor 15 to 30 minutes with the air delivery control valve open. The break-in run will lubricate pistons and bearings and permit flap-per valves to seat properly. A similar lubrication and break-in run is required when worn or damaged pistons or valves are replaced.

ELECTRICAL REQUIREMENTS

As a precaution against electrical shock, the compressor is equipped with a three-wire grounding plug and power cord. The supply wiring should meet all local electrical codes.

The compressor should be connected only to a properly grounded outlet. The electrical circuit must be protected by the required fuse or circuit breaker, providing electrical service as shown in chart at right.

Voltage at motor terminals must be:

- A75 - 108 to 132 volts
- A100 - 108 to 132 volts
- A200 - 216 to 264 volts

Model	Line Voltage	Hz	Fuse or Circuit Breaker
A75	120	60	15 amp
A100	120	60	20 amp
A200	240	60	15 amp

IMPORTANT: If an extension cord is needed, use only a three-wire cord of the proper gauge.

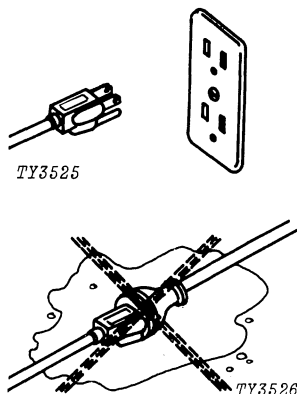
Less than 25 feet (7.6 m) - 12 gauge wire.

25 to 50 feet (7.6 m to 15.2 m) - 10 gauge wire.

Over 50 feet (15.2 m) - 7 gauge wire.



CAUTION: Make certain the connection between the power cord and the extension cord is not exposed to water.





Using the Air Compressor

GENERAL INFORMATION

The compressor is air cooled and should not be covered or made to operate in a closely confined space.



WARNING: Compressor head and air receiver lines can reach temperatures of 450°F (232°C) during operation. Keep hands and body away from these areas. Allow to cool before touching.

Fitted with properly maintained and correctly prepared delivery attachments, the compressor can be used for almost any application where compressed air at less than the following pressure is required; 100 psi (690 kPa) (6.9 bar) for the A75 and A100, 125 psi (862 kPa) (8.62 bar) for the A200.

If the delivery attachment requires a lower operating pressure, use a pressure regulator.

When spraying, locate compressor far enough away to prevent overspray from clogging filters. Replace dirty filters for best performance. See "Service," page 21.

IMPORTANT: Never operate compressor without filters.

STARTING AND STOPPING

IMPORTANT: Do not operate compressor until crankcase oil supply has been checked. Starting compressor with inadequate oil in crankcase could cause serious damage to compressor components. Refer to "Lubrication," page 18.

To Start Air Compressor:

1. Put pressure switch in "OFF" position.
2. Connect air hose or attachment. Read Operator's Manual for attachment before connecting it to air compressor.

Additional hose lengths may be coupled into delivery line but pressure at outlet will drop proportionately. Using more than 4 lengths (60 feet (18.3 m)) of hose is not recommended. (See your John Deere dealer for extra hose and fittings.)

3. Connect air compressor to proper electrical supply. Refer to "Preparation," page 11.

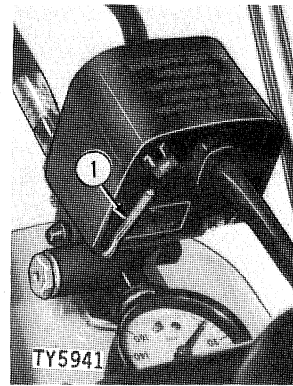
4. Open air delivery control.

5. Put pressure switch in "AUTO" position.

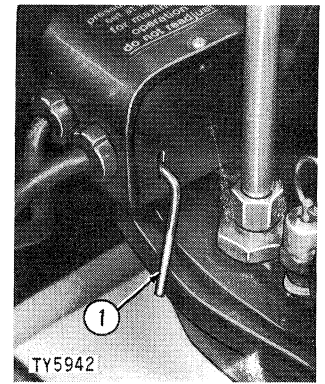
During operation, motor and compressor will run intermittently. Whenever tank pressure drops below "ON" limit of pressure switch, motor will start. It will shut down when pressure switch senses "OFF" limit.



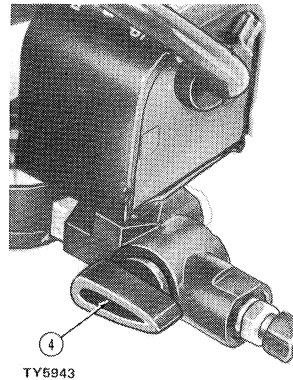
CAUTION: Pressure switch should not be adjusted or tampered with. If, during operation, tank pressure rises to where relief valve opens, pressure switch should be examined, and if necessary, replaced. See your John Deere dealer.



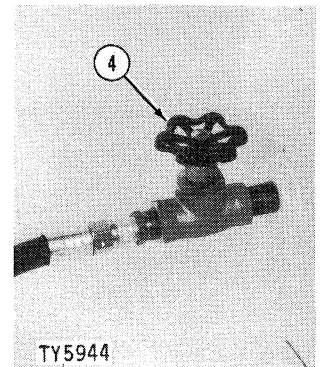
A75 (Illustrated)
and A100



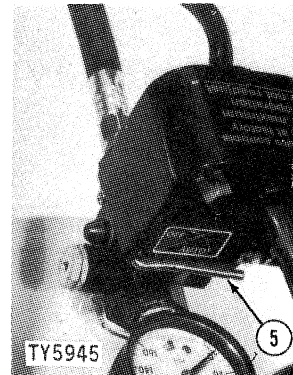
A200



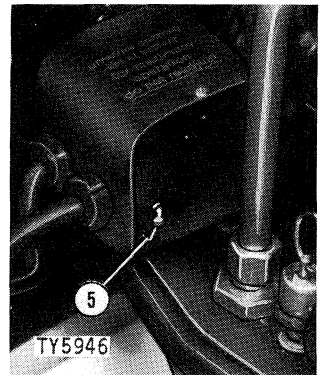
A75 (Illustrated)
and A100



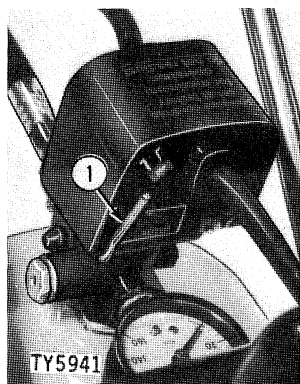
A200



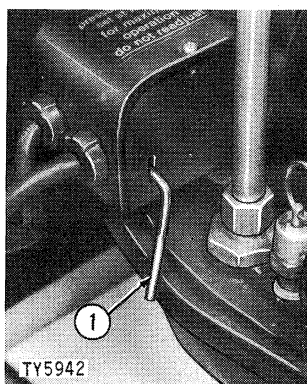
A75 (Illustrated)
and A100



A200



A75 (Illustrated)
and A100



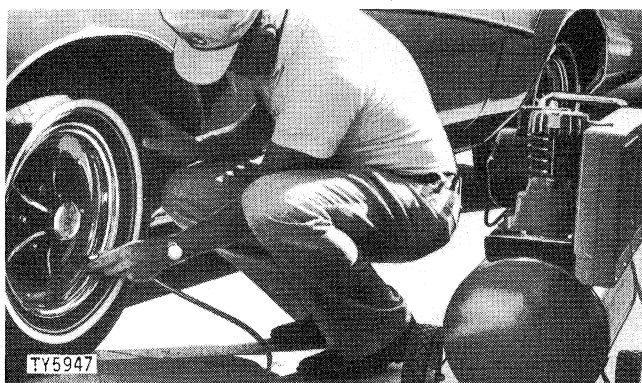
A200

To Stop Air Compressor:

1. Put pressure switch in "OFF" position.
2. When compressor is shut down for 8 hours or more, supply tank pressure should be vented. The tank must be drained of any accumulated moisture. Refer to "Service," page 20.

When compressor will be stored for a long period of time, refer to "Storage," page 17.

AIR PUMP



CAUTION: A75 and A100 compressors will build pressure to 100 psi (690 kPa) (6.9 bar), 125 psi (862 kPa) (8.6 bar) for A200. Do not over-inflate tires, air bags, boats, toys, etc.

Attach air hose and air chuck. Refer to "Assembly," page 2.

IMPORTANT: Attach pressure regulator if required. Refer to "Assembly", page 2.

SPRAY PAINTING

John Deere Compressors can be used with any spray gun requiring 5.5 cfm (0.16 m³/min) or less air at 45 psi (310 kPa) (3.1 bar) pressure. The unit will provide sufficient air for spraying from either a gun with canister or a pressurized supply tank. A non-bleeder type gun is recommended for use with tank-type compressors.

A pressure regulator must be used when spray painting.

Refer to "Accessories" for spray guns and pressure regulator.



CAUTION: The pressure regulator should never be set above 50 psi (345 kPa) (3.45 bar) when spray painting from a gun canister.

Paint Thinning

When applying paints, enamels, lacquers, etc., it is important that paint liquid be thinned to the proper consistency.

Paint Thinning Chart will indicate approximate percentage (by volume) of thinner to be added when common paint materials are prepared for use with 40 psi (276 kPa) (2.8 bar) pressure regulator setting.

NOTE: *Operator's Manual for spray gun being used should be read carefully before preparing paint or gun for use.*

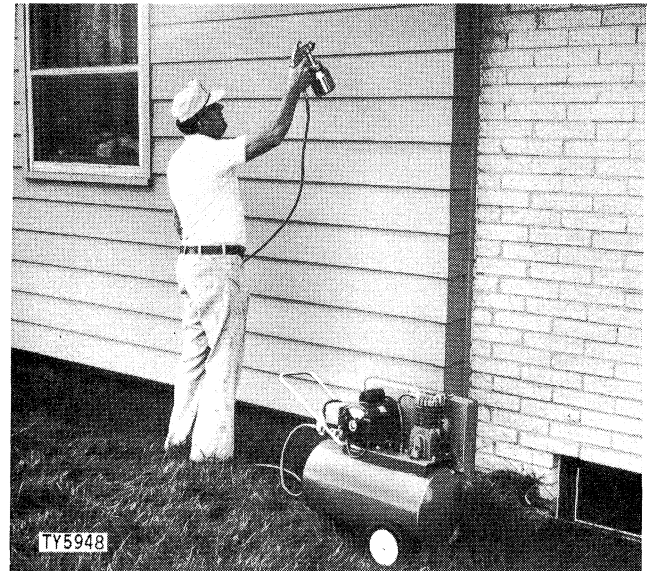
MATERIAL & APPLICATION	THINNER		GUN	
	TYPE*	%	TYPE*	NOZZLE*
Latex-Interior Flat	W	5-10	PRESS	EXT
Latex-Interior Semi-Gloss Enamel	W	5-10	PRESS	EXT
Latex-Concrete Floor Enamel	W	10-15	PRESS	EXT
Latex-Exterior	W	15-20	PRESS	EXT
Latex-Stucco, Masonry, Shingles	W	15-20	PRESS	EXT
Oil Base-Interior Flat Primer	T-P	0	PRESS	INT
Oil Base-Interior Flat Finish	O	5-10	PRESS	INT
Oil Base-Interior Semi-Gloss Enamel	O	5-10	ANY	ANY
Oil Base-Exterior Primer	T	10-15	PRESS	INT
Oil Base-Exterior Finish	T	5-10	PRESS	INT
Oil Base-Exterior Trim	T	5-10	PRESS	INT
Enamel-Undercoat (Interior-New Wood)	T	5-10	PRESS	INT
Enamel-Color Fast (Interior, Exterior)	T-P	5-10	ANY	ANY
Enamel-Epoxy (Wood, Metal)	L	10-15	PRESS	EXT
Epoxy-Concrete Floor	L	10-15	PRESS	EXT
Epoxy-Swimming Pool	L	10-15	PRESS	EXT
Stain-Interior-Furniture	P	0	ANY	EXT
Stain-Exterior (Shingle)	T	0	ANY	ANY
Stain-Redwood Finish-Exterior	P	0	ANY	ANY
Varnish-Interior-Exterior	T	HEAT	ANY	INT
Sealer, Clear (Floors, Woodwork)	T-P	0	ANY	EXT
Wall Paper Coating-Plastic	P	0	PRESS	INT
Auto Enamel-Red Chromate Primer	P	5-10	ANY	EXT
Auto Enamel-Finish	P	10-15	ANY	EXT
Anti-Rust Primer (Galvanized Metal)	T	10-15	PRESS	INT
Aluminum Paint (Exteriors, Radiators)	T-P	0	ANY	ANY
Barn and Fence Paint	T	0	PRESS	ANY
Shellac (Floors, Furniture, Woodwork)	A	**	ANY	EXT

*Code: W-Water; T-Turpentine; P-Paint Thinner; O-Odorless Thinner; L-Lacquer Thinner; A-Alcohol; PRESS-Pressure Feed Only; EXT-Exterior Mix Nozzle; INT-Interior Mix Nozzle

**See John Deere Manual "HOW TO SPRAY PAINT"

Spray Painting Tips and Suggestions

1. Prepare work carefully. Clean work surface; mix paint thoroughly; set up gun properly (See Operator's Manual for the spray gun you are using). Make sure all tools, supplies and equipment are in good order. Cover anything that may be damaged by overspray or blowing paint.
2. Work safely. Don't trust untested ladders or scaffolding. Make sure interior working areas are well ventilated. Wear a respirator if working indoors or in heavy spray. Don't spray near open flame or an exposed heater. Don't carry the sprayer while painting. Observe all safety suggestions given throughout this manual.
3. Work efficiently. Read Operator's Manual for spray gun you are using; follow painting procedures suggested. Use materials according to manufacturer's suggestions. Don't paint in cold, damp or excessively hot weather.
4. Clean-up thoroughly. Use proper solvents. Clean gun as directed by the Operator's Manual for the gun you are using. Wipe overspray or stray droplets off supply hoses and compressor.



SPRAYING FERTILIZERS OR PESTICIDES



John Deere Portable Compressors may be used to spray liquid fertilizers or pesticides. Solutions or mixtures containing suspended solids should be thinned or strained before spraying.



CAUTION: Some agricultural chemicals are intended to be lethal to certain forms of life. Although many agricultural chemicals may have little or no effect on a normally healthy human being, some are dangerous in the extreme. It is wise to treat all fertilizers and pesticides with great caution. Observe the following special precautions when using chemical solutions or sprays.

Don't take chances. Check container labels or manufacturer's information for specific precautions which may need to be observed.

Do not work on supply tanks, hoses or nozzles while the compressor is running or system is pressurized. Shut down compressor and bleed all pressure before disconnecting spray system components.

Avoid all direct contact with sprays, solutions, dusts, powders or residues. Wear protective clothing (rubber aprons, gloves, goggles, respirator, masks, etc.) whenever possible.

Have an emergency soap and water supply available. If a chemical solution is spilled on skin or in eyes, it must be flushed away immediately.

Never touch sprayer components with lips or mouth. If chemical solutions are accidentally swallowed, instructions on manufacturer's label must be followed carefully.

Wash your hands and face before eating or smoking.

If you suspect you have been exposed to a chemical solution that may be injurious, seek medical attention immediately. Delay may have serious consequences.

After working with chemical solutions or contaminated equipment, take a shower and change to clean clothing. Wash contaminated clothing before reuse.

IMPORTANT: Many chemical sprays are highly corrosive. Careless use of corrosive sprays can damage your gun or other spray apparatus. Spray residue left in an improperly cleaned gun may foul the nozzle, tubes and passages beyond repair. Always clean gun thoroughly after every use.

NOTE: All traces of chemical sprays may be extremely difficult to remove; never use same gun to spray both herbicides and fertilizers.



Storage

Before storing compressor, start it. Use an air hose and blow all dust and debris from the unit.

Disconnect and coil power cord and hose.

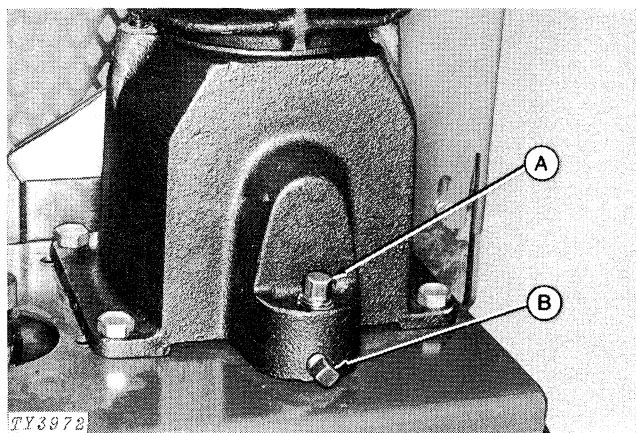
Remove and inspect filter elements. Replace filter elements with new elements if dirty. Clean housing and reinstall filters, see "Service," page 21.

Cover compressor to protect it from moisture and dust.



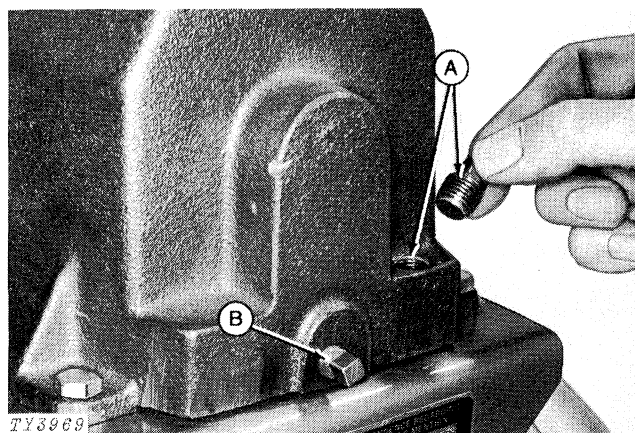
Lubrication

COMPRESSOR CRANKCASE



A75

Daily - Remove fill plug (A) and check oil level. Fill to bottom thread of filler hole with John Deere Plus 4 10W-40 engine oil or its equivalent. DO NOT OVER FILL.



A100 and A200

Every 100 hours - Remove crankcase drain plug (B). Drain oil and replace plug. Remove fill plug (A) and refill crankcase with John Deere Plus 4 10W-40 engine oil or its equivalent. DO NOT OVER FILL.

Crankcase oil capacity:

A75 - 6 fl. oz. (177 mL)

A100 - 16 fl. oz. (473 mL)

A200 - 16 fl. oz. (473 mL)



Trouble Shooting

Trouble	Probable Cause	Suggested Remedy	Page
Compressor won't start	No current at receptacle	Check service at fuse box or circuit breaker	13
	Pressure switch in "OFF" position	Put pressure switch in "AUTO" position	13
	Broken wires on power cord or bad connections at motor	Disconnect power cord and check cord and connections at motor	--
	Motor burned out	Repair or replace motor	22
Compressor starts - lights dim - motor runs slow and overheats	Low voltage	Have current and service wiring checked. See Electrical requirements.	11
	Defective unloader valve	See your John Deere dealer.	--
Compressor runs - motor labors - no air at spray gun nozzle	Plugged air supply hose	Check supply hose - repair or replace hose	--
	Faulty spray gun	Check spray gun (see Operator's manual for spray gun)	--
Compressor runs - motor OK - little or no air at spray gun	Leaking air supply hose or fittings	Check supply hose and fittings - repair or replace	--
	Drain cock open.	Close drain cock.	20
	Air delivery control in "CLOSED" position.	Put air delivery control in "OPEN" position.	7
Compressor runs - motor labors - little or no air at compressor outlet	Plugged filter	Replace filter	21
	Jammed inlet or outlet flapper valve	Replace flapper valve	23
	Leaking flapper valves (new valves not seating)	Remove hose and run for break in	11
	Leaking flapper valves (old valves worn or damaged)	Replace valve reeds	23
Compressor excessively noisy - air pressure down	Pulleys misaligned	Realign pulleys	See your John Deere dealer
	Worn or damaged crankshaft bearings	Replace bearings	
	Scored or worn piston	Replace piston	



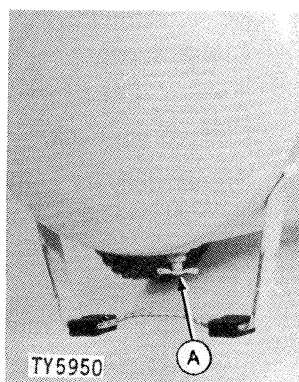
Service

SERVICE INTERVAL CHART

Service	Interval				Page
	8 Hours	25 Hours	100 Hours	*	
Draining Air Tank	X				20
Intake Air Filter		X			21
Check Crankcase Oil	X				18
Change Crankcase Oil			X		18
Drive Belt				X	21
Motor				X	22
Flapper Valves				X	23
Check Valve				X	25
Compressor				X	28

*As required

DRAINING AIR TANK



Accumulated moisture should be drained from air tank at the end of each day's operation.

When compressor is shut down for 8 hours or more, the air tank pressure should be vented and the tank drained of any accumulated moisture.

To Drain Tank:

Relieve all tank pressure. Close air delivery control or globe valve and open drain cock (A) on underside of tank. Run compressor briefly (1 to 2 minutes).

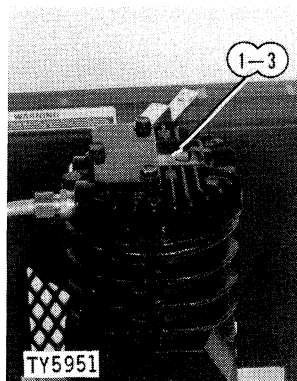
NOTE: Be sure drain cock is tightly closed before starting compressor for normal operation.

INTAKE AIR FILTER

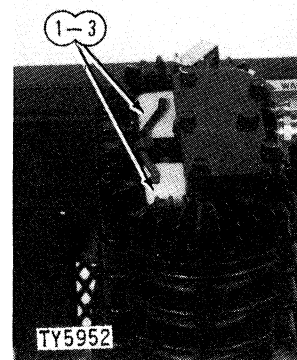
Clean or replace intake air filter(s) at least every 25 hours of operation. Check more often in extremely dusty conditions.

1. Remove foam filter(s). Discard oily, dirty, caked or crusted filters.
2. Wash foam element in a solution of liquid detergent and warm water. Wrap element in cloth and squeeze dry.
3. Replace intake air filter(s).

IMPORTANT: Never operate compressor without filter(s).



A75

A100 (Illustrated)
and A200

DRIVE BELT

A V-belt is used to drive compressor on A75 Compressor. A Poly-V belt is used to drive compressor on A100 and A200 compressors.

Belt Removal

Remove drive belt guard.

Remove bolts securing motor to air receiver. Remove belt.

Belt Reinstallation

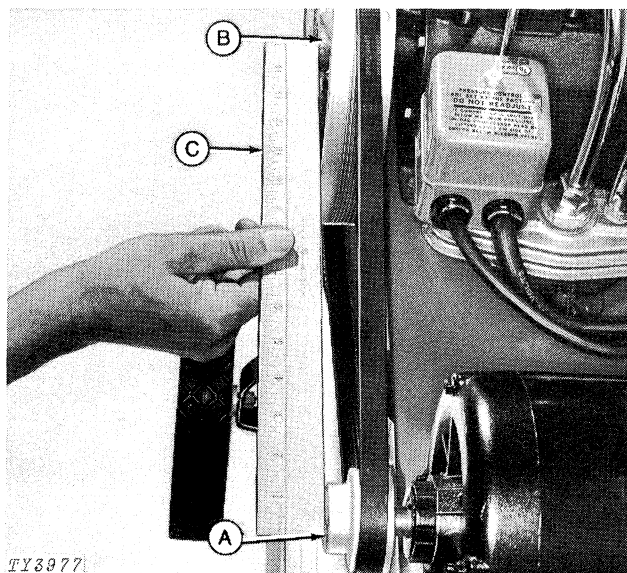
Position motor, install belt on drive pulley (A) and compressor pulley (B). Secure motor to air receiver.

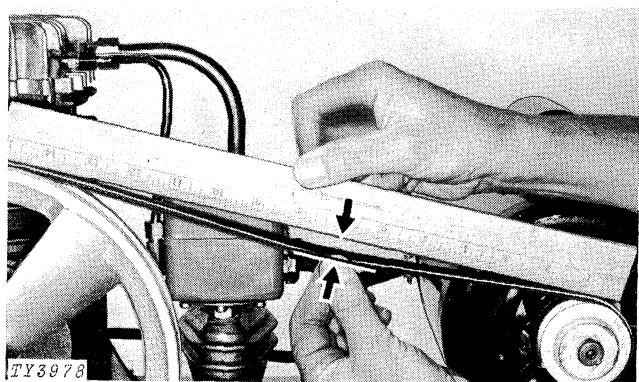
Belt Alignment and Tension

To prevent excessive wear on both motor and compressor bearings, drive pulley (A) and compressor pulley (B) must be correctly aligned. Belt tension must be properly adjusted.

To align pulleys: Place a straightedge (C) across compressor pulley face at (B), so that straightedge (C) touches rim at two points.

Position or relocate either pulleys or motor so that belt is parallel with straightedge.



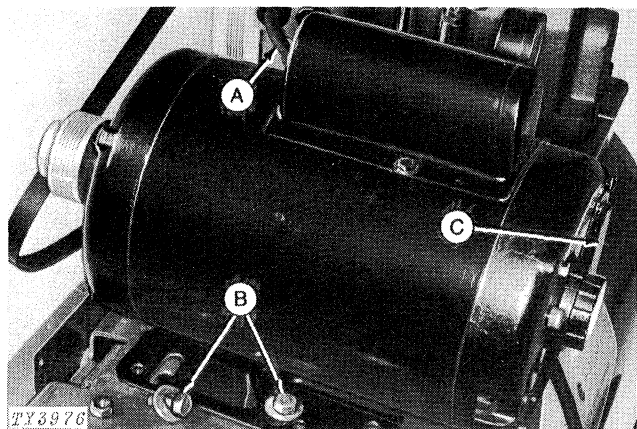


To adjust belt tension: Release bolts securing motor. Shift motor until a slight pressure on belt midway between pulleys will cause a deflection of 1/2 inch (12.7 mm). Check belt alignment. Retighten bolts securing motor.



CAUTION: Before operating compressor make certain drive belt guard is properly installed.

MOTOR



Motor Removal

To remove motor: Disconnect pressure switch cord (A) at motor. Remove four screws (B) and release and remove drive belt. Remove motor.

Removal and Replacement of Power Cord

It is not necessary to remove motor to replace power cord. Disconnect power cord, release screws securing plate (C) at rear of motor. Remove plate and release screw and clip attachments at power cord terminal. Reattach as required.

Motor Service

See your John Deere dealer for repair or service of motor.

Reinstallation

To reinstall motor: Position motor, reinstall drive belt and secure motor with four screws and nuts. Reconnect pressure switch cord.

Reinstall drive belt and adjust belt alignment and tension, page 21.

FLAPPER VALVES

Replace the valve reeds if the flapper valve leaks because of damage or wear.

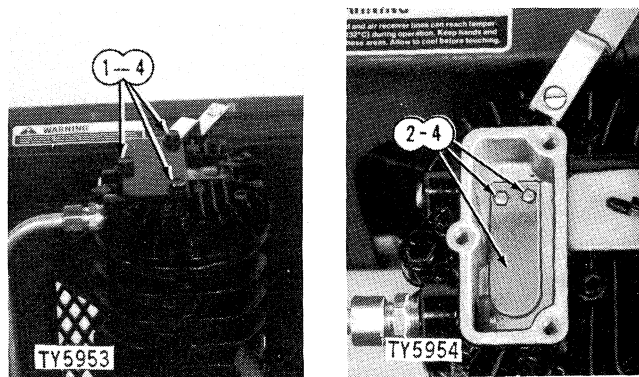
NOTE: Replace both reeds if leakage is suspected at either port. Do not bend or shape new reeds before or after installation. Allow compressor to run for 15 minutes before connecting delivery hose or attachments after new reeds have been installed. See "Preparation," page 11.

Outlet Valve - Removal and Replacement

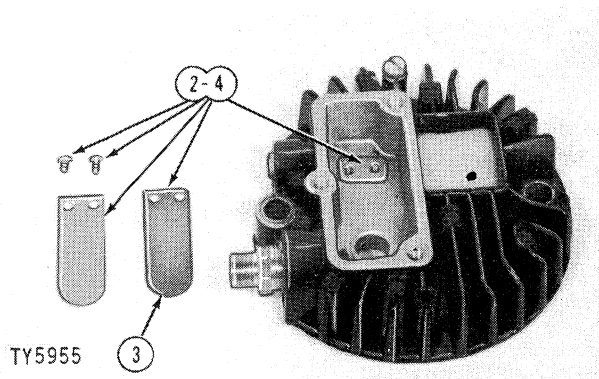


CAUTION: Release all tank pressure and unplug power cord before doing any work on any lines or fittings.

1. Remove screws and remove cover. Examine gasket. Replace gasket if torn or ruptured.
2. Remove screws and remove restrictor(s) and valve reed(s).

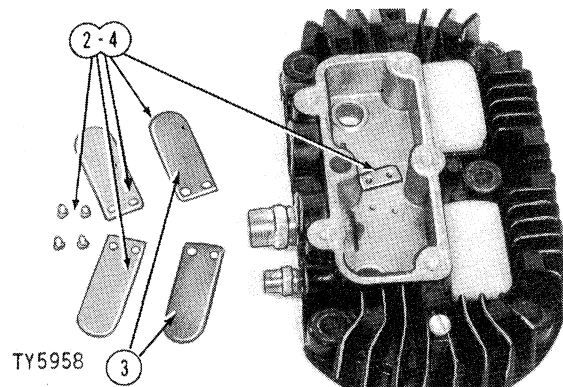
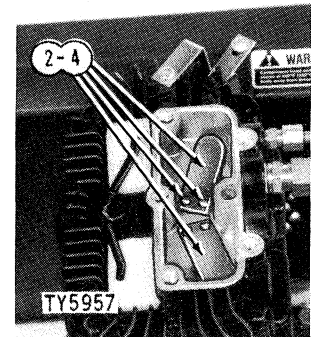
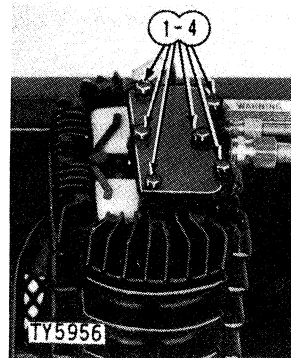


3. Install new valve reed(s).
4. Install restrictor, screws and cover.



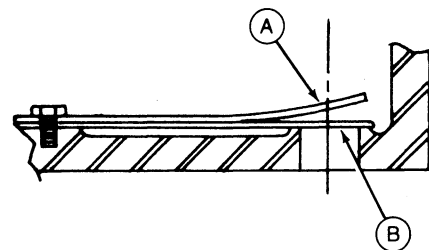
A75

FLAPPER VALVES—Continued



A100 (Illustrated) and A200

IMPORTANT: Install restrictor (A) with angle upward as shown.



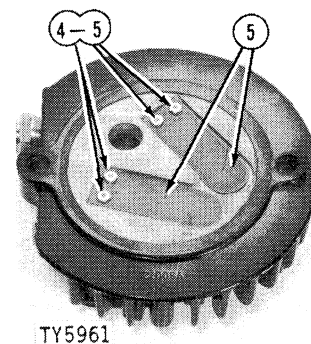
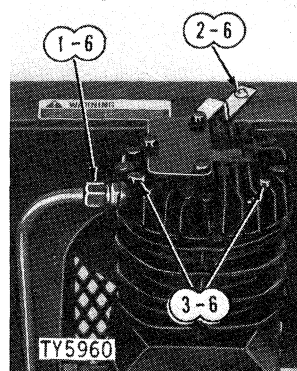
A—Restrictor
B—Flapper Valve

TY5959

Inlet Valve - Removal and Replacement

CAUTION: Release all tank pressure and unplug power cord before doing any work on any lines or fittings.

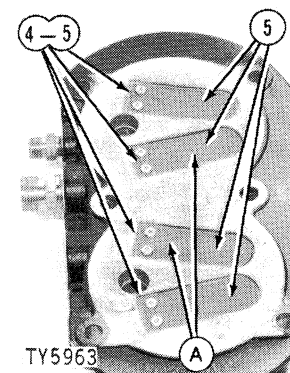
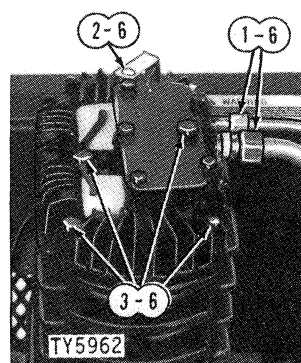
1. Disconnect air line(s) from compressor.
2. Remove screw from bracket.
3. Remove screws securing cylinder head to crankcase. Remove cylinder head.
4. Remove screws and remove valve reeds.
5. Install new valve reeds.



A75

6. Install cylinder head, bracket and air lines.

NOTE: The intake flapper valves are of two different thicknesses and designed to open at different times. One of each set of flapper valves has a notched corner. On the A100 and A200 compressors, there are two intake valves per cylinder. When reassembling, the valves with the notched corners are the two inside valves (A).



A100 (Illustrated) and A200

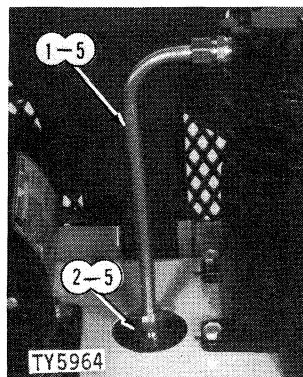
CHECK VALVE

Check valve in pressure line between compressor head and air receiver opens when compressor is operating and closes when compressor stops. Dirt in seat of check valve could cause leakage. If leakage at check valve is suspected, valve should be removed and disassembled.

A75 Air Compressor

Check valve in A75 also functions as a pressure unloader. It takes pressure off cylinder head when compressor is not running.

CHECK VALVE—Continued

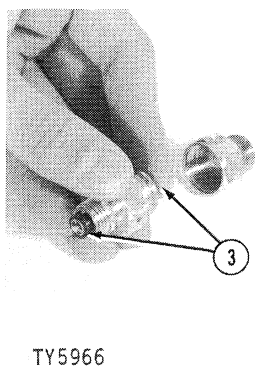
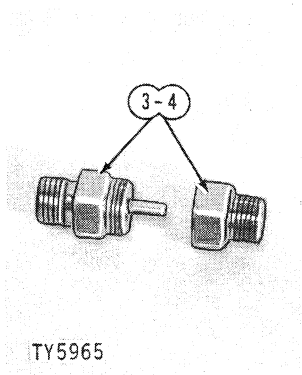


To remove and replace check valve:

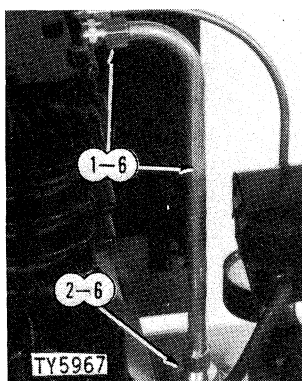


CAUTION: Release all tank pressure and unplug power cord before doing any work on any lines or fittings.

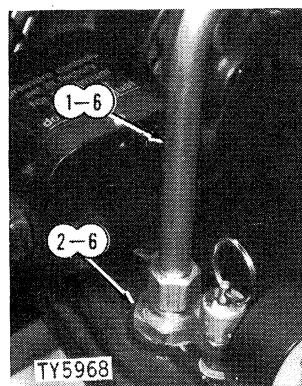
1. Disconnect air line.
2. Remove check valve from air tank.



3. Use two wrenches and separate the two halves of check valve. Depress check plunger and inspect O-ring. (If damaged or torn, replace entire valve assembly.) Blow out and wipe off seat surface beneath O-ring.
4. Reassemble check valve. Tighten to 125 inch-pounds (14 N·m) (1.4 kgm) torque.
5. Reinstall check valve and pressure line.



A100



A200

A100 and A200 Air Compressor

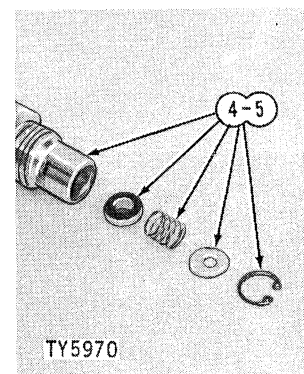
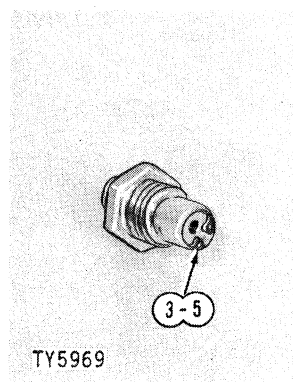
To remove and replace check valve:



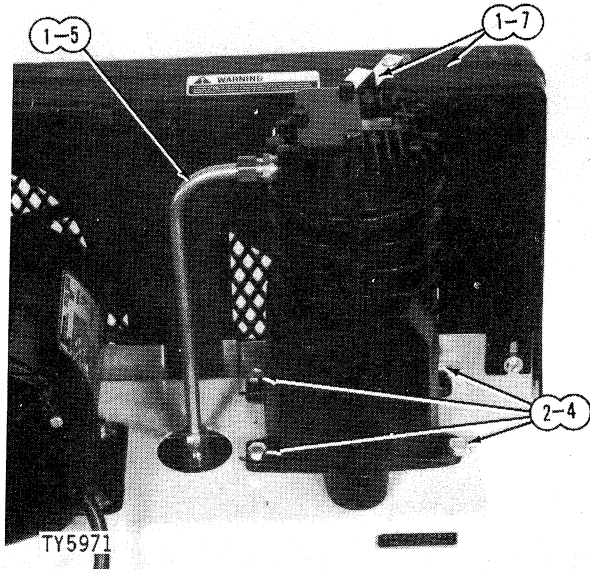
CAUTION: Release all tank pressure and unplug power cord before doing any work on any lines or fittings.

1. Disconnect air line.
2. Remove check valve.

3. Remove snap ring.
4. Disassemble check valve. Replace disk if rubber seat is cracked or worn.
5. Assemble check valve and install snap ring. Insert rubber seat side of disk into check valve first.
6. Install check valve and connect air line.



COMPRESSOR



A75

Removal and Installation

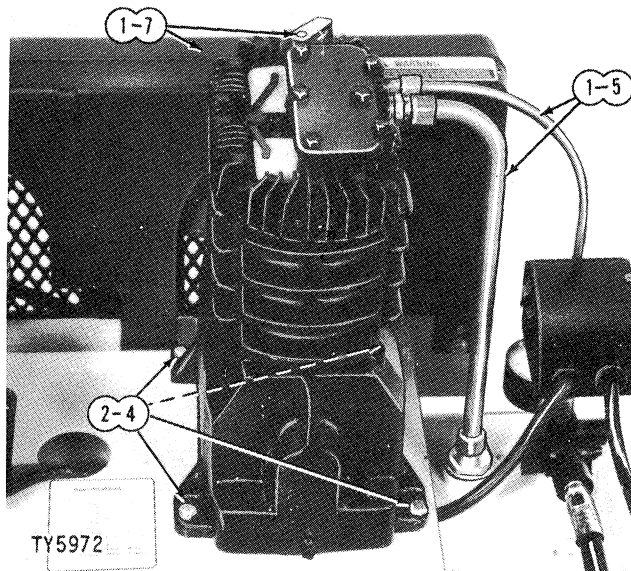


CAUTION: Release all tank pressure and unplug power cord before doing any work on any lines or fittings.

1. Remove air line(s), belt guard and bracket.
2. Remove four screws.
3. Release drive belt and remove compressor.

For service, see your John Deere dealer.

4. Engage drive belt and position compressor on mounting base. Install and tighten screws.
5. Connect air line(s).
6. Align and adjust belt tension, page 21.
7. Replace belt guard and bracket.



A100 (Illustrated) and A200



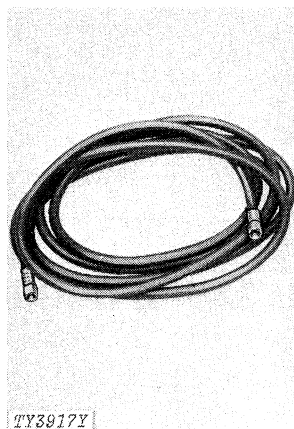
Accessories

AIR HOSES

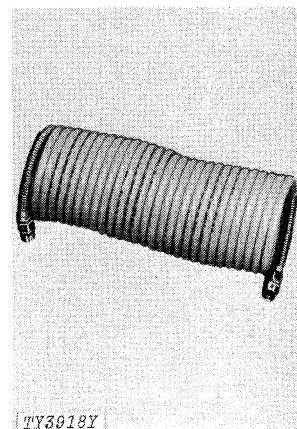
TY4804 Air Hose - 1/4 inch x 15 foot (6.35 mm x 4.6 m)
(1/4-inch NPT female threads)

TY8603 Air Hose, Pre-Coil - 25 foot (7.6 m) (1/4-inch
NPT male threads)

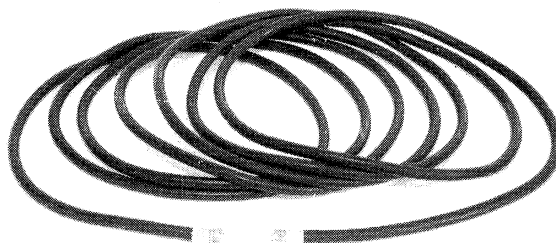
TY4344 Air Hose - 1/4-inch x 25 foot (6.35 mm x 7.6
m) (1/4-inch NPT female threads)



TY4804 Air Hose



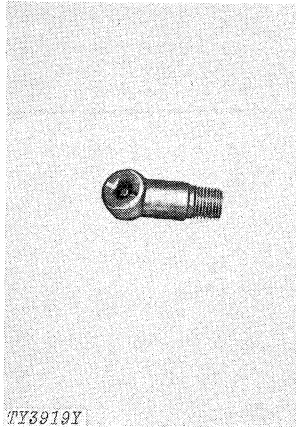
TY8603 Air Hose



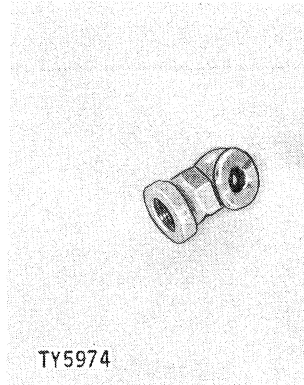
TY5973

TY4344 Air Hose

AIR CHUCKS



TY4805 Air Chuck

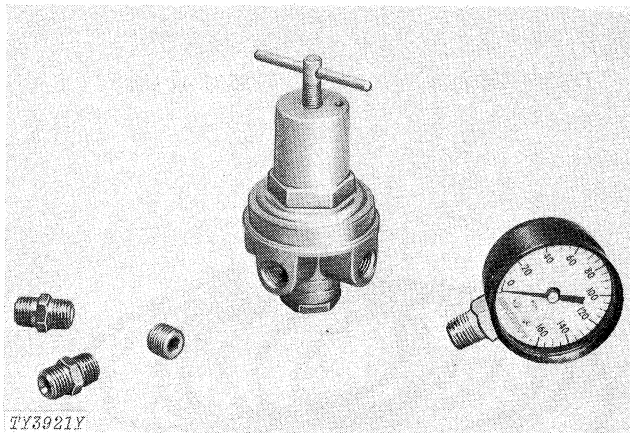


TY4652 Air Chuck

TY4805 Air Chuck - (1/4-inch NPT male thread)

TY4652 Air Chuck - (1/4-inch NPT female thread)

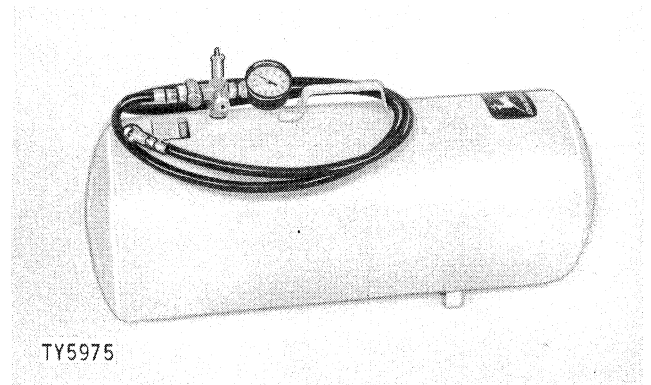
PRESSURE REGULATOR WITH GAUGE



TY8614 Pressure Regulator with Gauge

AIR TANK

TY8600 Carry Air Tank with hose and air chuck.

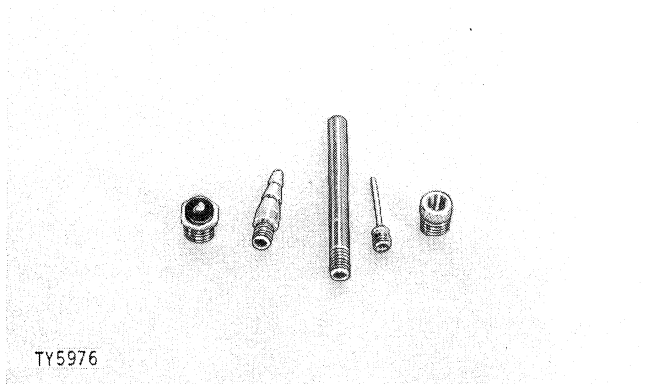


TY5975

TY4346 INFLATOR KIT

Consists of: Tire inflator, barbed fitting inflator, needle inflator, blow pipe, and an adapter.

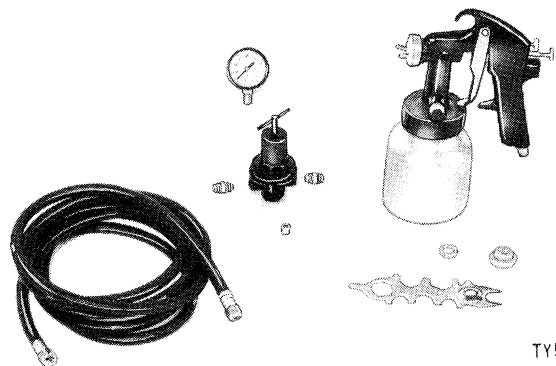
Used for cleaning, inflating sports equipment, car and bicycle tires.



TY5976

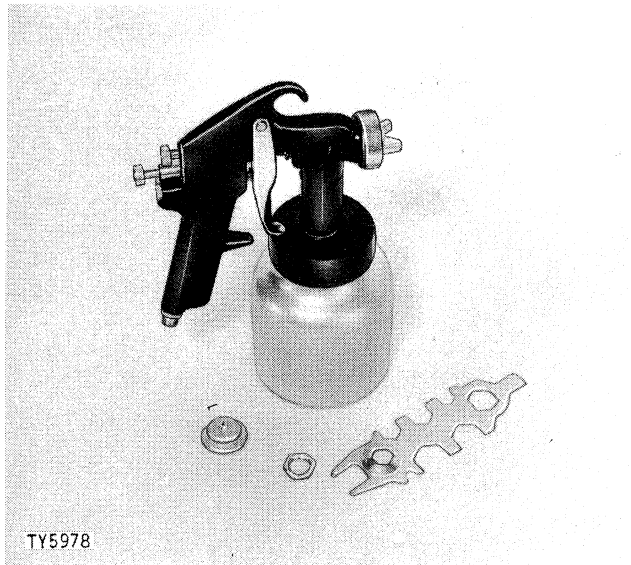
TY4339 PAINT GUN KIT

Consists of: Non-bleeder/bleeder spray gun, regulator, gauge with 1/4 inch fittings, and 15 ft. of 1/4 inch air hose.



TY5977

TY4343 PAINT GUN



Non-bleeder/bleeder guns, such as TY4343, can be set to operate in either manner depending on material being sprayed. It allows the paint canister to be pressurized. Paint can be mixed either in the nozzle or externally. This allows painting with either thin lacquer or heavy bodied paints.



Specifications

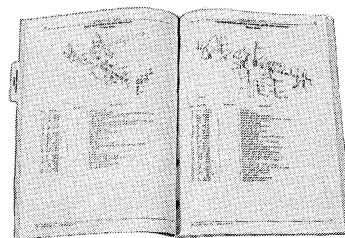
	A75	A100	A200
Motor			
Shaft Output HP	3/4 (559.3 W)	1 (746 W)	2 (1492 W)
RPM	3450	3450	3450
Line Service Required			
Voltage	120V/60 Hz	120V/60 Hz	240V/60 Hz
Fuse or Circuit Breaker	15 amp	20 amp	15 amp
Motor Wiring	120 volt - single phase	120 volt - single phase	240 volt - single phase
Power Cord		3-Wire Grounding Plug	
Bearings		Oil-Sealed	
Continuous Operation Rated		104°F (40°C)	
Compressor			
Type	Single, Cylinder, Portable	Twin Cylinder, Portable	Twin Cylinder, Portable
Drive	V-Belt	Poly-V Belt	Poly-V Belt
Tank	12 gal. (45.4 L) Horizontal (Non-ASME)	20 gal. (75.7 L) Horizontal (Non-AMSE)	20 gal. (75.7 L) Horizontal (ASME)
RPM@ 40 psi (276 kPa) (2.76 bar)	920	552	733
Rated Air Delivery			
40 psi (276 kPa) (2.76 bar)	3.2 cfm (0.0015 m³/s)	5.6 cfm (0.0026 m³/s)	7.2 cfm (0.0034 m³/s)
90 psi (621 kPa) (6.21 bar)	2.6 cfm (0.0012 m³/s)	4.5 cfm (0.0021 m³/s)	5.9 cfm (0.0028 m³/s)
Pressure Switch (Factory Set)			
Comes on at -	80 psi (552 kPa) (5.52 bar)	80 psi (552 kPa) (5.52 bar)	105 psi (724 kPa) (7.24 bar)
Goes off at -	100 psi (690 kPa) (6.90 bar)	100 psi (690 kPa) (6.90 bar)	125 psi (862 kPa) (8.62 bar)
Relief Valve (Factory Set)	120 psi (827 kPa) (8.27 bar)	120 psi (827 kPa) (8.27 bar)	140 psi (965 kPa) (9.65 bar)
Crankcase Oil Capacity	6 fl. oz. (177 mL)	16 fl. oz. (473 mL)	16 fl. oz. (473 mL)
Dimensions			
Length	33 in. (838 mm)	40 in. (1 016 mm)	40 in. (1 016 mm)
Width	17-1/2 in. (445 mm)	19-1/2 in. (495 mm)	19-1/2 in. (495 mm)
Height	25 in. (635 mm)	29 in. (737 mm)	29-1/2 in. (749 mm)
Weight (approximately)	135 lbs. (61.2 kg)	170 lbs. (77.1 kg)	180 lbs. (81.6 kg)

(Specifications and design subject to change without notice.)

JOHN DEERE SERVICE LITERATURE AVAILABLE...

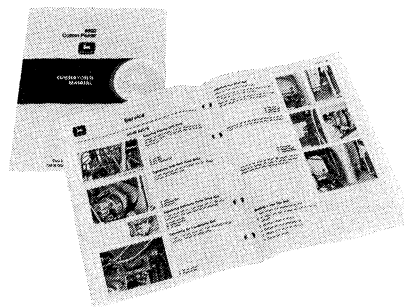
PARTS CATALOG

To order these publications fill out this form and the payment information and mail it to the address above. Make checks payable to Deere & Co. Service Publications. Please allow three weeks for delivery. No COD orders, please. Do not send cash or stamps. To place credit card orders, call **1-800-522-7448**. If you want manuals or catalogs for equipment not shown on this list, provide the model number, serial number, and name of the product.



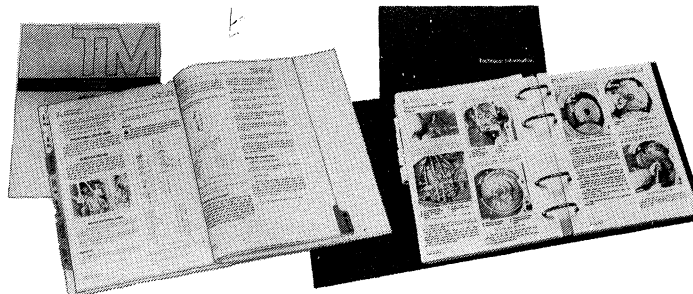
A parts catalog containing exploded view illustrations and lists of all parts is useful when purchasing service parts. Helps identify the correct parts. Useful in assembling and disassembling.

OPERATOR'S MANUAL



An extra copy of the operator's manual may be important if the copy furnished with your machine is misplaced.

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Technical Manual A75, A100, A200 Air Compressors	TM-1103		

NOTE: If you want manuals or catalogs for equipment not shown on this list, list the model number, serial number and name of the equipment below.

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