FORM NO. 3316–437

TORO

MODEL NO. 07348

INSTALLATION INSTRUCTIONS

1/3 AIR COMPRESSOR
For Workman ® 3000 Series

⚠ SAFETY INSTRUCTIONS

The safety alert symbol means CAUTION, WARNING or DANGER — "personal safety instruction". Read and understand the instruction because it has to do with safety. Failure to comply with the instruction may result in personal injury.

1. Read and understand the contents of this manual and the Operator Manuals for the Workman Vehicle, Electric Clutch, Hand Throttle and Power Platform before operating the compressor. Become familiar with all controls and know how to stop quickly. A free replacement manual is available by sending complete Model and Serial Number to:

The Toro Company
8111 Lyndale Avenue South
Bloomington, Minnesota 55420–1196

2. Never allow children to operate the machine. Do not allow adults to operate machine without proper instruction. Only trained operators who have read this manual should operate this machine.

3. Never operate the machine when under the influence of drugs or alcohol.

4. Keep all shields and safety devices in place. If a shield, safety device or decal is illegible or damaged, repair or replace it before operation is commenced. Also tighten any loose nuts, bolts and screws to assure machine is in safe operating condition.

5. TO REDUCE THE RISK OF FIRE OR EXPLOSION, NEVER SPRAY FLAMMABLE LIQUIDS IN A CONFINED AREA. It is normal for the pressure switch to produce sparks while operating. If sparks come into contact with vapors from gasoline or other solvents, they may ignite, causing fire or explosion. Always operate the compressor in a well-ventilated area. Do not smoke while spraying. Do not spray where sparks or flame are present. Keep compressor as far from spray area as possible.

6. WELDING OR ANY OTHER ALTERATIONS MADE TO THIS UNIT VOIDS ALL WARRANTIES AND MAY RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE.

7. The solvents Trichloroethane and Methylene Chloride can chemically react with aluminum used in paint spray equipment. This does not affect your air compressor, but may affect the equipment being used.

8. Never directly inhale the compressed air produced by a compressor. It is not suitable for breathing purposes.

9. This unit starts automatically. ALWAYS shut off the Workman engine and bleed all pressure from the system before servicing the compressor.

10. Check the manufacturer's pressure rating for air tools and accessories. Compressor outlet pressure must be regulated so as to never exceed the maximum pressure rating of the tool. Relieve all pressure through the hose before attaching or removing accessories.

11. High temperatures are generated by the pump. To prevent burns or other injuries, DO NOT touch the pump or transfer tube while the pump is running. Allow it to cool before handling or servicing. Keep children away from the compressor at all times.

12. Be certain to read all labels when you are spraying paints or toxic materials, and follow the safety instructions. Use a respirator mask if there is a chance of inhaling anything you are spraying. Read all instructions and be sure that your respirator mask will protect you.

13. Always wear safety goggles or glasses when using an air compressor. Never point any nozzle or sprayer toward a person or any part of the body.

14. Do not adjust the pressure switch or relief valve for any reason. Doing so voids all warranties. They have been preset at the factory for the maximum pressure of this unit. Personal injury and/or property damage may result if the pressure switch or relief valve are tampered with.

15. Drain the moisture from the tank on a daily basis. A clean, dry tank will help prevent corrosion.

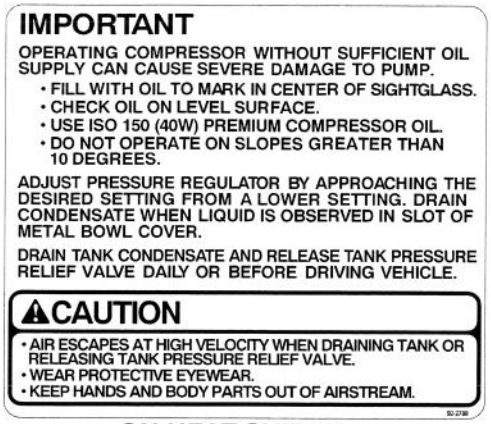
16. Pull the pressure relief valve ring daily and before driving vehicle to ensure that the valve is functioning properly and to clear the valve of any possible obstructions.

17. To prevent damage to the compressor, always ensure oil appears in the sight glass before operation Do not run compressor on slopes greater than ten degrees.

18. Protect the air hose from damage or puncture. Inspect hose weekly for weak or worn areas and replace if necessary. Store hose securely out of the way before driving vehicle.

⚠ SAFETY AND INSTRUCTION DECALS

The following decals are installed on the machine. If any become damaged or illegible, replace it. The decal part number is listed below and in your parts catalog. Replacement can be ordered from your Authorized Toro Distributor.



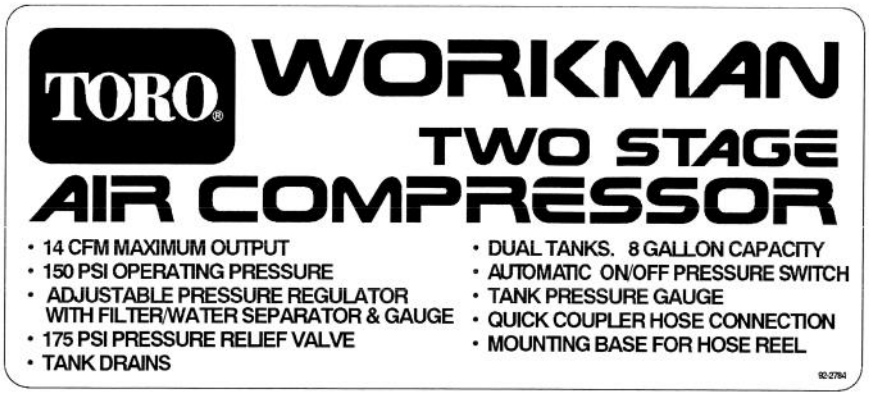
ON HEAT SHIELD
(Part No. 92–2788)

ON SIDE OF AIR TANK
(Part No. 67–5360)

ON HEAT SHIELD
(Part No. 66–6840)

ON SIDE OF AIR TANK BRACKET
(Part No. 83–6620)

ON TOP OF BELT SHIELD
(Part No. 80–8040)



ON TOP OF AIR TANK
(Part No. 92–2784)

SPECIFICATIONS

Pump Capacity: 14 CFM @ 3600 engine RPM.

Tank Size: 8 gallons.

Pressure Relief Valve Setting: 175 PSI.

Pressure Switch Settings: 95 PSI Kick in Pressure
125 PSI Kick out Pressure.

SET–UP INSTRUCTIONS

1. Position compressor onto power platform aligning frame mounting holes with holes in platform (Fig. 1).

2. Remove belt shield from power platform.

3. Install belt around compressor flywheel and power platform jackshaft pulley (Fig. 1).

4. Install belt shield over flywheel and belt, while aligning mounting holes with holes in compressor frame and and platform (Fig. 1).

5. Secure belt shield and compressor frame to platform with (4) 3/8–16 x 1" lg. capscrews and flatwashers (Fig. 1).

6. Tension belt by adjusting draw bolt. Belt should deflect 1/2" when 10 lb. of force is applied to belt midway between the jackshaft pulley and pump flywheel.

Note: Mounting plate bolts are torqued properly at the factory to allow the plate to slide during belt adjustment. If an adjustment becomes necessary, tighten bolts until they contact mounting plate then tighten an additional 1/4 turn.

7. Connect compressor wire harness to electric clutch harness. Remove jumper wire from clutch harness, if necessary.

8. Reinstall belt shield to power platform.

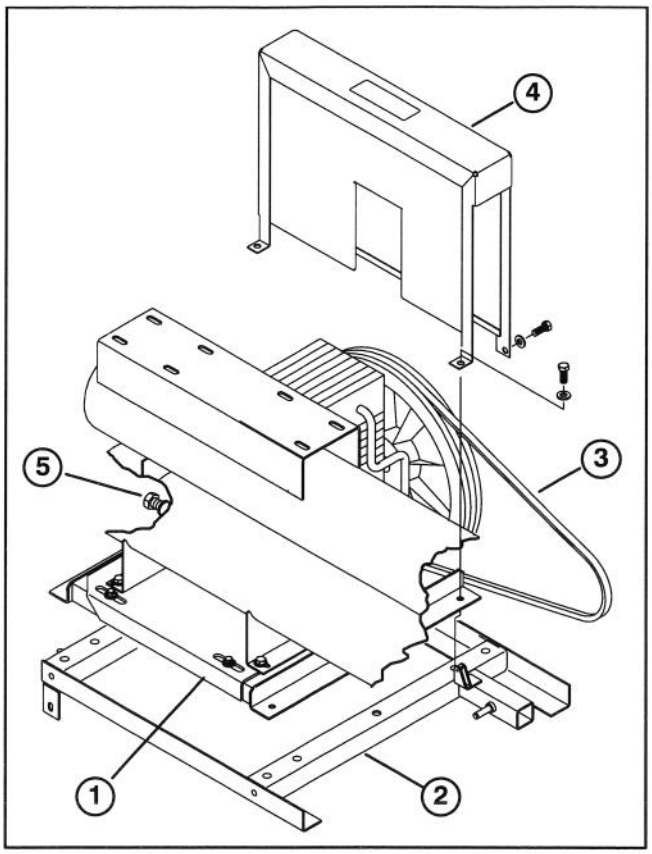


Figure 1

1. **Compressor frame**
2. **Power platform**
3. **Belt**
4. **Belt shield**
5. **Draw bolt**

BEFORE OPERATING

ADD OIL TO PUMP

The pump is shipped without oil in it. The correct lubricant is essential to the proper operation of your compressor. When experiencing condensation, the ability of the oil to separate (demulsify) water is extremely important. This allows the water to settle to the bottom of the crankcase. Use SAE 40W (150) compressor oil. **Motor oils are not suitable for pump use.** The oil level in the pump crankcase must be checked daily.

IMPORTANT: The oil should be changed after the first eight hours of operation.

1. Position vehicle / compressor on a level surface.

2. Remove the oil fill plug (Fig. 2).

3. Add SAE 40W compressor oil (approx. 44 oz.) until oil level reaches the correct level on the sight glass (Fig. 2). The oil level should reach 1/8" above the red dot on the sight glass. DO NOT OVERFILL OR UNDER FILL; TOO MUCH OR TOO LITTLE OIL WILL HARM THE PUMP.

4. Install oil fill plug.

CAUTION: A rise in the oil level and milky oil color indicate condensation is forming in the crankcase. This condensation must be drained immediately, or damage to the pump may occur.

IMPORTANT: If experiencing condensation/water in the crankcase, a complete oil change should be done at 100 working hour intervals after the initial break-in period.

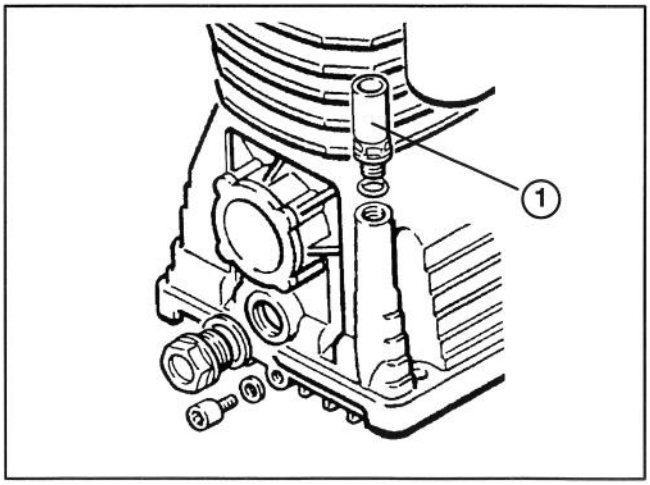


Figure 2

1. **Oil fill plug**

OPERATION

BREAKING-IN THE PUMP

1. Position vehicle / compressor on a level surface.

2. Check sight glass (Fig. 3) to ensure oil in pump is at required level.

3. If oil level is low, remove oil fill plug (Fig. 3) and add proper amount of oil.

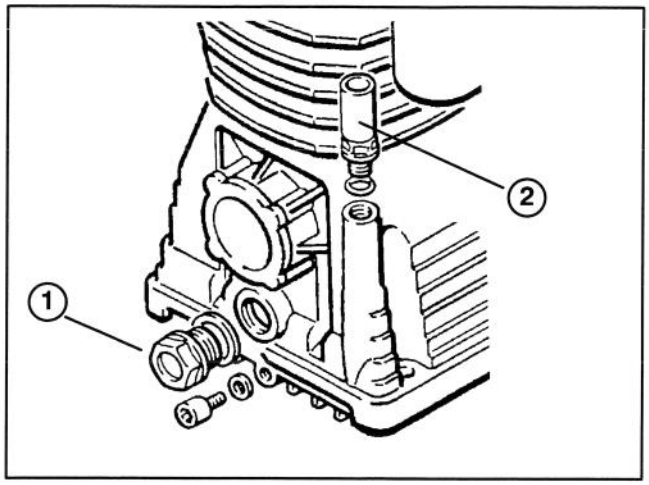


Figure 3
1. **Sight glass**
2. **Oil fill plug**

4. Slowly open the petcock on the bottom of either tank (Fig. 4). Be careful of escaping air.

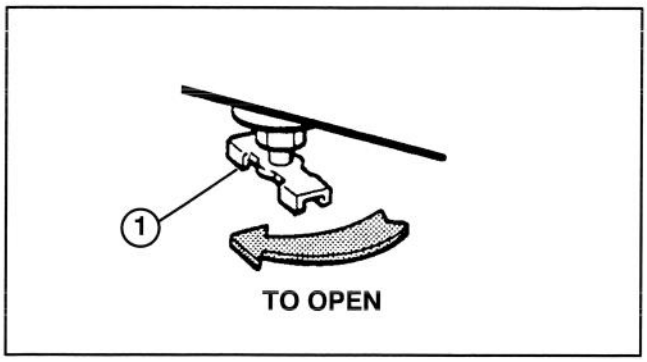


Figure 4
1. **Petcock**

5. Start the Workman and turn on the electric clutch.

6. Run the compressor for about 20–30 minutes, to break in the pump and ensure that the internal parts are lubricated.

7. Shut OFF the Workman. Close the petcock.

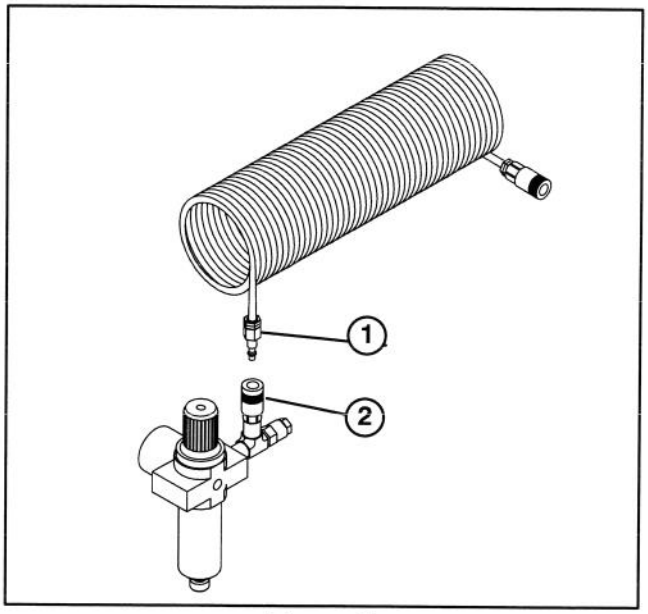


Figure 5
1. **Hose**
2. **Regulator quick coupler**

STARTING

1. Position vehicle on a level surface. Always operate compressor on as level a surface as possible (never greater than 10 degrees).

2. Each day, check sight glass to ensure level of oil in pump is at required level.

3. Pull ring on pressure relief valve to relieve air pressure in the tank (Fig. 6).

NOTE: If pressure switch does not stop motor when pressure reaches the preset level, valve will pop open automatically to prevent over pressurization.

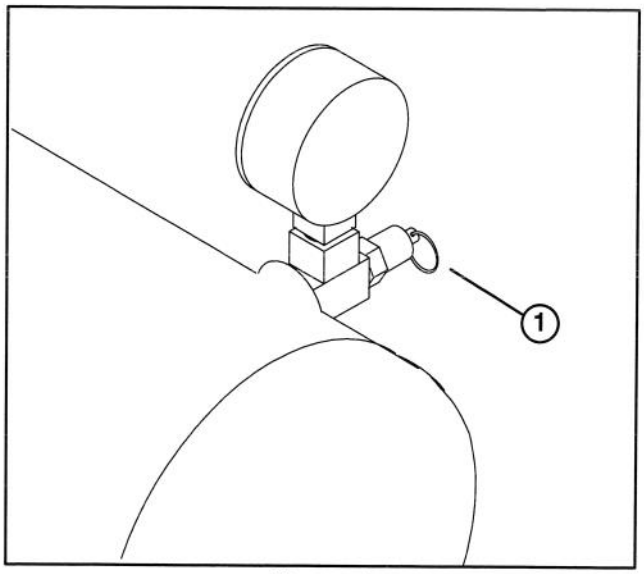


Figure 6
1. **Pressure relief ring**

4. Make sure electric clutch switch is shut OFF.

OPERATION

5. Start the Workman.

6. Turn ON the electric clutch switch. The pump will start filling the tank with air. When air pressure in tank reaches the level preset at the factory, the pressure switch will turn off the electric clutch. As air is used and the pressure level in the tank drops, the pressure switch will start the motor and the pump will begin refilling the tank.

WARNING: For your safety, tank pressure is preset within the switch and must **never** be tampered with.

IMPORTANT: The pressure switch must not be adjusted by operator; doing so will void the warranty. The pressure switch controls the level of air pressure in the tank by automatically starting and stopping the motor, as required to maintain the factory preset pressure level.

WARNING: High temperatures are generated by the pump. To prevent burns and other injuries, DO NOT touch the pump while it is running. Allow it to cool before handling or servicing. Keep children away from the compressor at all times.

7. Connect air hose at quick coupler (Fig. 5).

8. Connect desired tool to air hose (Fig. 5).

9. To adjust line pressure:

A. Loosen locking screw on pressure regulator adjusting knob (Fig. 7).

B. Rotate adjusting knob counterclockwise until it stops.

C. Turn on air supply.

D. Rotate adjusting knob clockwise until desired setting is attained, as shown on the pressure gauge.

IMPORTANT: When changing pressure settings, always approach new setting from a lower setting. When reducing from a higher to a lower setting, first reduce to a less–than–desired pressure, then increase to the desired setting.

E. Check to assure all connections are tight.

F. After desired pressure is attained, tighten locking screw to lock pressure setting.

IMPORTANT: The air pressure gauge on the tank measures air pressure inside the tank, not pressure in the air line. The gauge on the pressure regulator/filter indicates line pressure.

10. If water is detected in regulator bowl (Fig. 7):

A. Remove air pressure from system.

B. Rotate drain screw counterclockwise to drain water from bowl (Fig. 7).

C. Close screw after bowl is drained.

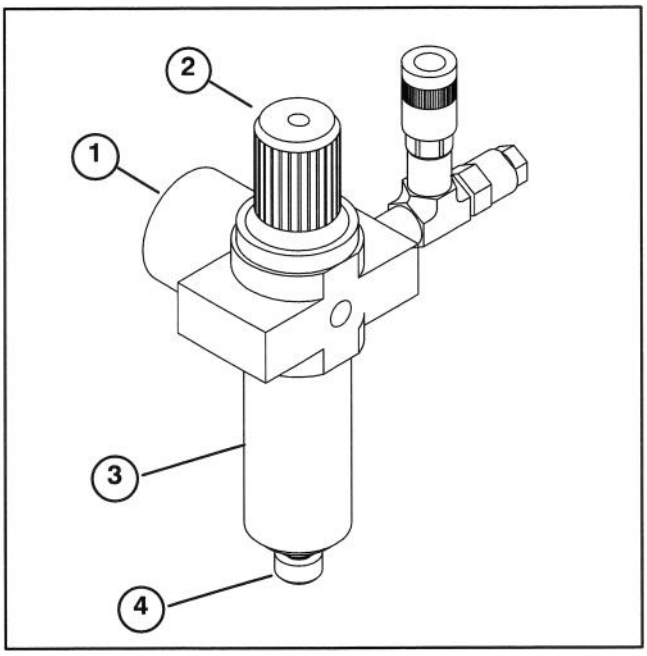


Figure 7

1. **Pressure regulator / filter**
2. **Adjusting knob**
3. **Bowl**
4. **Drain screw**

SHUTDOWN

1. Shut OFF the electric clutch switch.

2. Stop the Workman.

3. Pull the relief valve ring to relieve pressure in the tank.

4. Wear protective eye wear and open the petcock at the bottom of each tank to allow moisture to drain from the tanks after each day's use.

MAINTENANCE

WARNING

To avoid personal injury, stop Workman, always shut OFF main electric clutch switch and release all air pressure from system before performing any service on air compressor.

SERVICE INTERVAL CHART

Perform the following maintenance at the intervals indicated below.

Inspect and clean air filter ..... Weekly
Check Pump Oil Level ..... Daily
Change Pump Oil ..... Every 250 Operating Hours
Operate All Pressure Relief Valves ..... Daily
Check Belt Tension .... Every 250 Operating Hours or every time you install compressor
Drain Tank ..... Daily
Check and Tighten all Bolts ..... After first 8 hours and every 500 Operating Hours (Do not overtighten.)

NOTE: Do not overtighten mounting plate bolts as they allow the mounting plate to slide for belt adjustments.

CHANGE PUMP OIL

Initially, change oil in pump after 8 hours of operation, thereafter change oil after every 250 hours of operation.

1. Position machine on level surface.

2. Remove drain plug allowing oil to drain from pump crankcase.

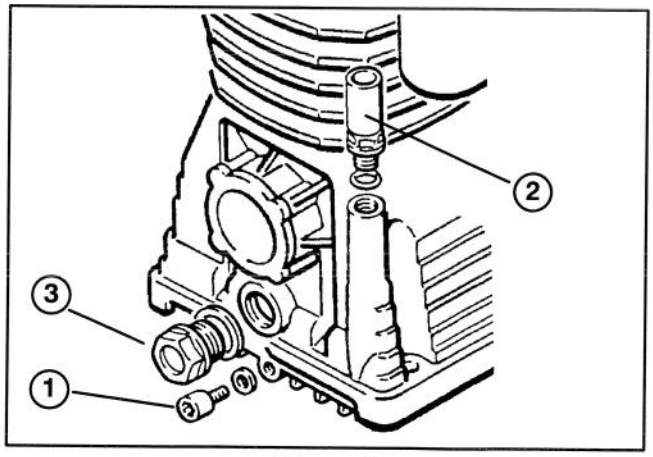


Figure 8
1. **Drain plug**
2. **Fill plug**
3. **Sight glass**

3. Install drain plug.

4. Remove fill plug and add proper amount of oil. Refer to Adding Oil to Pump, page 3.

5. Every time oil is changed, remove sight glass and wipe off inside with a clean cloth.

CLEANING AIR FILTER

A dirty air filter will reduce the pump's performance and life. To avoid any internal contamination of the pump, clean air filter weekly. Do not allow the filters to become filled with dirt or paint.

1. Remove screws securing air cleaner cover to air cleaner body and remove cover.

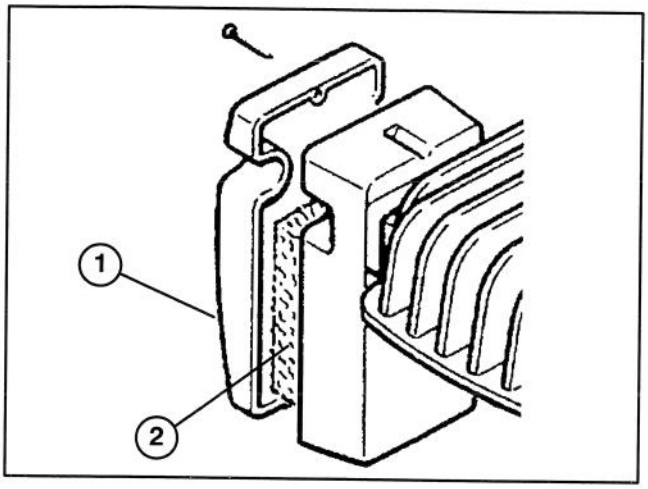


Figure 9
1. **Air cleaner cover**
2. **Air cleaner element**

2. Remove foam element by sliding it out of air cleaner body.

   A. Wash foam element in detergent and warm water.

   B. Wrap foam element in cloth and squeeze dry. Do not wring element.

3. Reinstall element, air cleaner cover and mounting screws.

DRAINING TANKS

Condensation will accumulate in the tanks. To reduce corrosion of the tanks from the inside, this moisture must be drained at the end of every workday. Be sure to wear protective eye wear. Relieve the air pressure in the system and open the petcock on the bottom of the tank to drain.

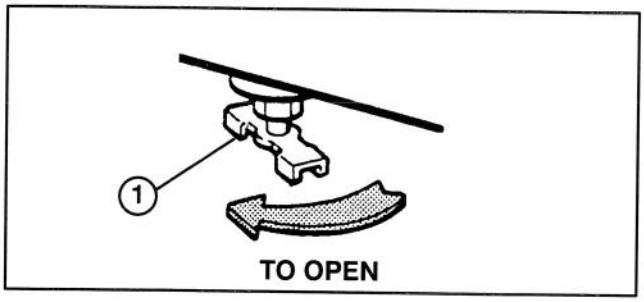


Figure 10
1. **Petcock**

MAINTENANCE

CLEANING REGULATOR FILTER

Clean regulator filter every 3 months. Clean filter more frequently when used heavily.

1. Remove pressure from system.
2. Drain water from regulator bowl.
3. Unscrew bowl counterclockwise from regulator (Fig. 11).

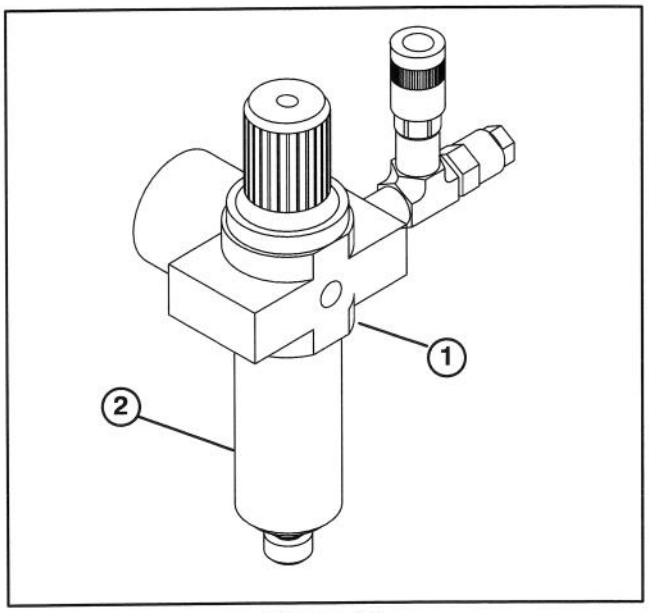


Figure 11

1. **Regulator / Filter**
2. **Bowl**

4. Unscrew filter counterclockwise from bowl.
5. Wash filter element in solvent. Do not use trichloroethylene.

NOTE: Do not let filter bowl come in contact with trichloroethylene.

6. Blow air through filter from inside.
7. Reinstall filter and bowl.

TESTING FOR LEAKS

Check to assure all connections are tight. A small leak in any of the hoses, transfer tubes, or pipe connections will substantially reduce the performance of your air compressor. If you suspect a leak, spray a small amount of soapy water around the area of the suspected leak with a spray bottle. If bubbles appear, repair or replace faulty component. Do not overtighten any connections.

ADJUSTING DRIVE BELT TENSION

Proper belt tension and pulley alignment must be maintained for maximum drive efficiency and belt life. The correct tension exists if a deflection of 1/2" occurs by placing 10 lb. of force midway between the jackshaft pulley and the pump flywheel (Fig. 12). Deflection can be attained by adjusting the draw bolt.

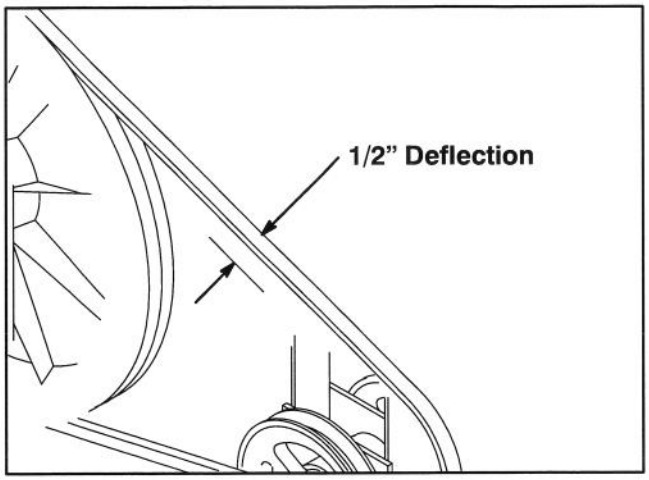


Figure 12

STORAGE

Before storing the compressor for a prolonged period, use an air blow gun to clean all dust and debris from the compressor. Pull the pressure relief valve to release all pressure from the tank. Drain all moisture from the tank. Clean the filter elements and filter housing; replace the elements if necessary. Drain the oil from the pump crankcase and replace it with new oil. Cover the entire unit to protect it from moisture and dust.


TORO®