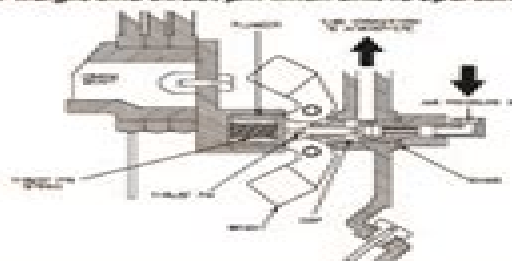
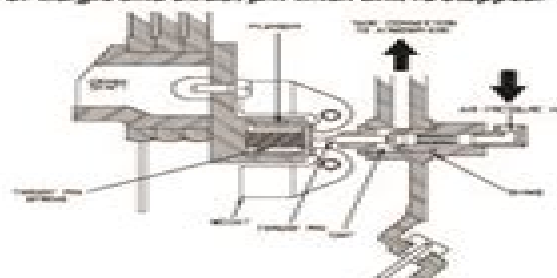


Position of weight and thrust pin when unit is operating.



Position of weight and thrust pin when unit is stopped.



PILOT VALVE ADJUSTMENT

If the pilot valve tube line is excessively hot, it is a good indication that the pilot valve is leaking and adjustment is required.

To adjust the pilot valve, proceed as follows:

1. Stop the unit and disconnect and tag the electrical supply main switch to prevent accidental start-up.
2. Remove the pilot valve tube and the tube fittings.
3. Remove the pilot valve body and all existing shims.
4. Screw the pilot valve body back into the frame end cover (without any shims) until contact with the thrust pin is felt. Advance the pilot valve body 1/4 to 1/2 turn more.

If contact with the thrust pin cannot be felt, the following steps may be necessary to locate the contact point:

1. Insert a small instrument (punch, rod, nail, etc.) into the end of the pilot valve until it contacts the valve stem.
2. While still inserted in the pilot valve, make a mark on the instrument even with the outside edge of the pilot valve body.
3. Keeping the instrument pressed lightly against the valve stem, screw the pilot valve body into the frame end cover. When the mark on the instrument starts moving out away from the edge of the pilot valve body, contact has been made with the thrust pin.
4. Advance the pilot valve body 1/4 to 1/2 turn more and proceed with step five.
5. Measure the gap between the pilot valve body and the frame end cover.
6. Remove the pilot valve body and add enough shims to fill the gap measured in step five.
7. Screw the pilot valve body back into the frame end cover until the body is tight on the shims.
8. Reconnect the pilot valve tube and tube fittings.

BREATHER/UNLOADER BY-PASS

The breather/unloader by-pass tube line eliminates air pressure build-up in the compressor frame by providing a passage for the air to escape through the inlet unloader (if opened) or (if closed) through the check valve, therefore, by-passing the inlet unloader and escaping to atmosphere through the inlet filter/silencer.

OIL CONSUMPTION CHECK

A rule of thumb in determining a "passing grade" for oil consumption is to consider consumption at or above 50 horsepower-hours per ounce to be acceptable.

The formula is as follows:

$$\frac{\text{Horsepower} \times \text{Hours of Operation}}{\text{Ounces of Oil Used}} = \text{Horsepower Hours per Ounce}$$

To apply this formula, consider the size of the machine. In the following example, a 5 horsepower compressor uses 2 ounces of oil every 20 hours of operation.

$$\frac{5 \text{ Horsepower} \times 20 \text{ Hours of Operation}}{2 \text{ Ounces of Oil Used}} = 50 \text{ Horsepower Hours per Ounce}$$

The compressor in the example passes the oil consumption test.

NOTE

New or rebuilt compressor pumps will discharge higher than normal amounts of oil until the piston rings are seated (approximately 100 operating hours).

MAINTENANCE

⚠ WARNING

Before performing maintenance, release air pressure from the system and disconnect, lock and tag the main power supply or disconnect the wire from the engine spark plug.

NOTE

All compressed air systems contain maintenance parts (e.g. lubricating oil, filters, separators) which are periodically replaced. These used parts may be, or may contain, substances that are regulated and must be disposed of in accordance with local, state, and federal laws and regulations.

NOTE

Take note of the positions and locations of parts during disassembly to make reassembly easier. The assembly sequences and parts illustrated may differ for your particular unit.

NOTE

Any service operations not explained in this manual should be performed by an authorized service representative.

NOTE

Reference the engine owner's manual for engine care information.

NOTE

The following maintenance schedule has been developed for typical applications. Maintenance intervals should be shortened in harsher environments.

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