

Maintenance

Priming Instructions

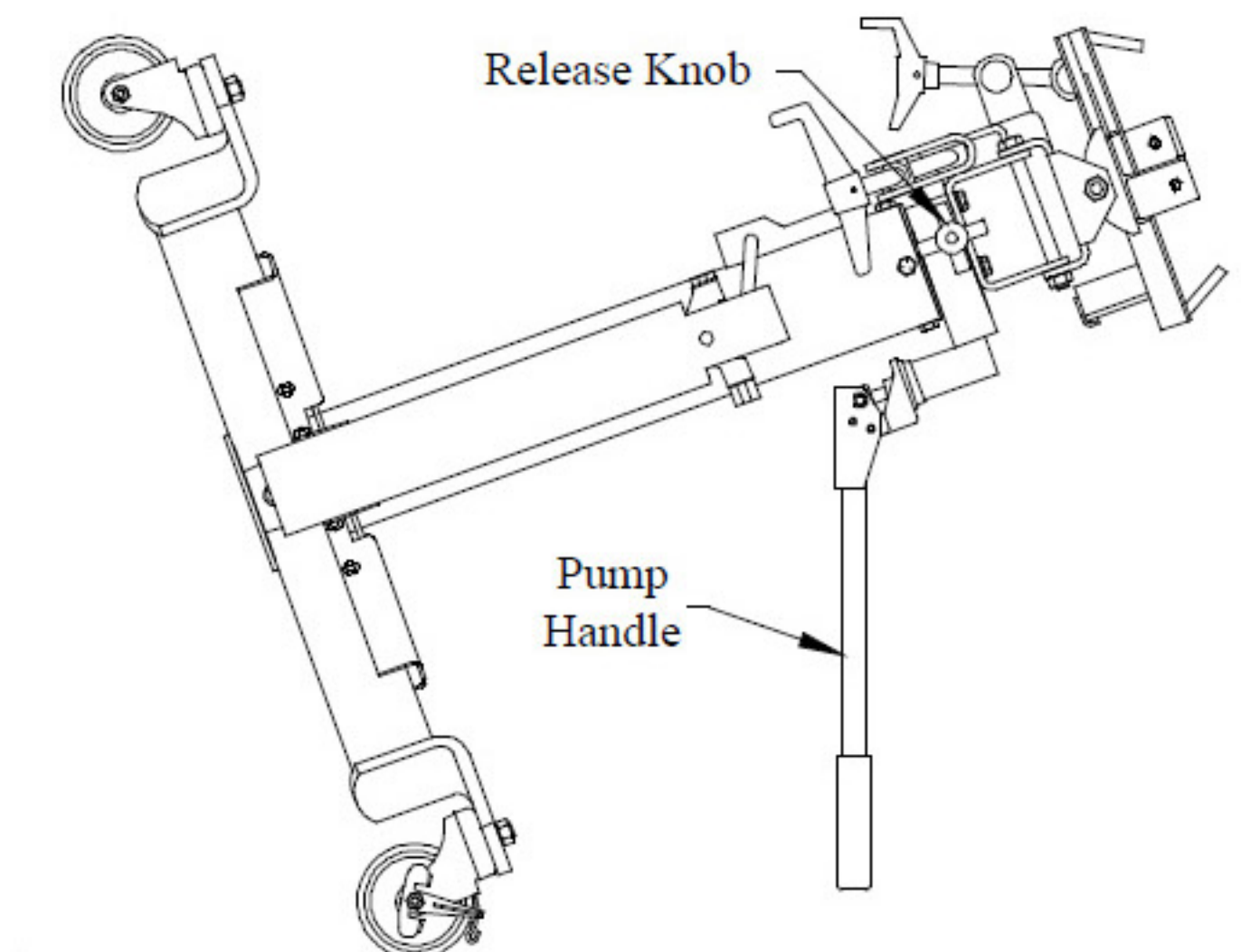


Figure 1

- Tilt entire jack over on two casters with the pump handle down as shown in Figure 4.
- Open hydraulic release valve by turning release knob and operate the pump handle until resistance is felt.
- Close hydraulic release valve and continue pumping handle while restoring jack to upright position.

Maintenance

How to Oil Air Cylinders

The air cylinder needs to be lubricated.

We use motor oil to do this. The oil is fed into the air cylinder **via the air line**, as the oil will protect its interior metal components from any residual moisture accumulated during the day. We use an in-line oiler. We attach it to the air line when we lubricate, and remove it when done.



Parts List & Operating Instructions

Preventive Maintenance

IMPORTANT: The greatest single cause of failure in hydraulic units is dirt. Keep the transmission jack clean and well lubricated to prevent foreign matter from entering the system. If the jack has been exposed to rain, snow, sand, or grit, it must be cleaned before it is used.

1. Store the jack in a well-protected area where it will not be exposed to corrosive vapors, abrasive dust, or any other harmful elements.
2. Lubricate moving parts at least once per month.
3. Regularly wipe the cylinder columns with a clean cloth to remove dirt and abrasives.
4. Replace the oil in the reservoir at least once per year.
5. Inspect the jack before each use. Take corrective action if any of the following problems are found:
 - a. Cracked or damaged housing
 - b. Excessive wear, bending, or other damage
 - c. Leaking hydraulic fluid
 - d. Scored or damaged piston rod
 - e. Loose hardware
 - f. Modified or altered equipment

Troubleshooting Guide

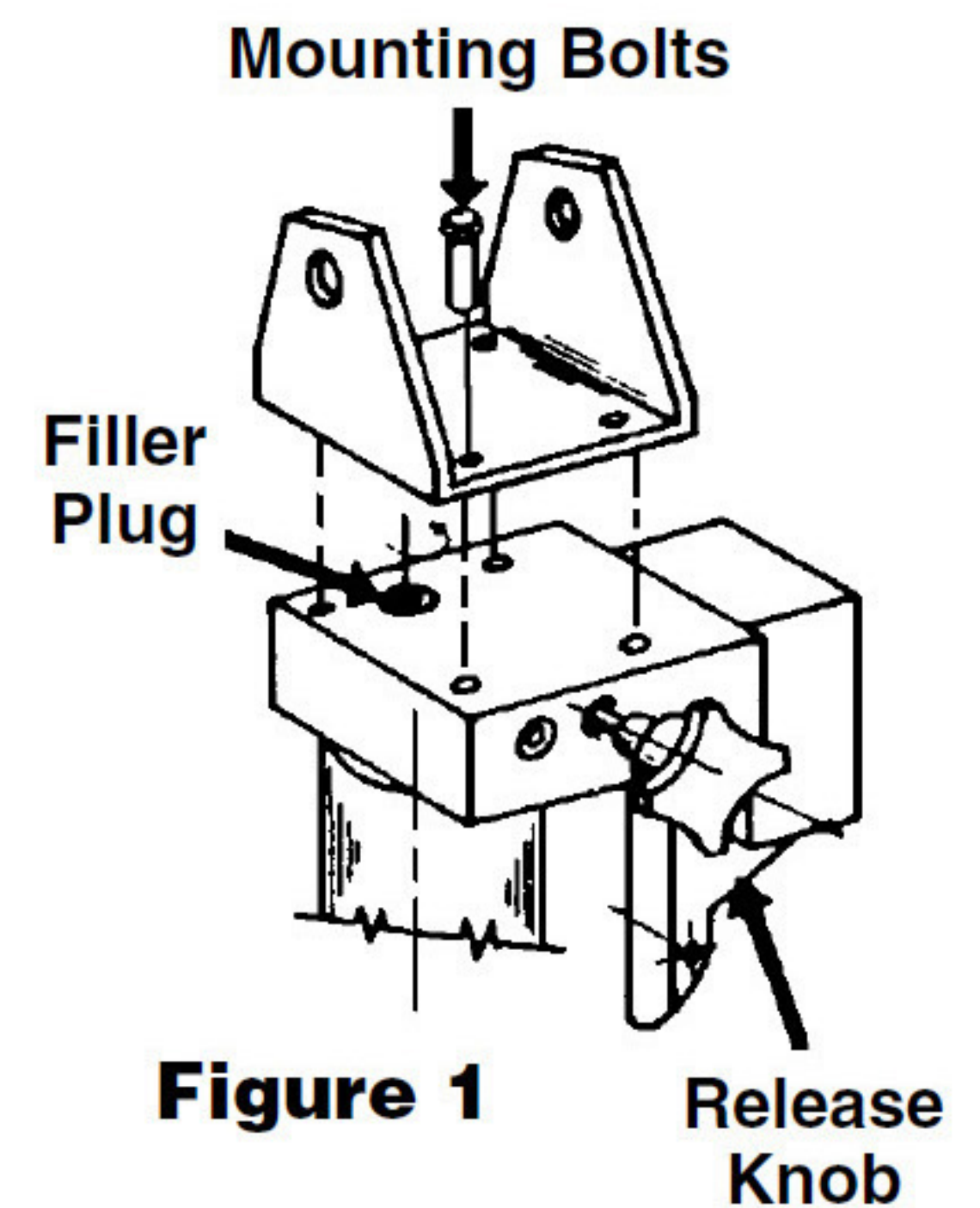
Repair procedures must be performed in a dirt-free environment by qualified personnel who are familiar with this equipment.

Trouble	Cause	Solution
Air Stage - Air leak causes mechanical lock to engage or erratic cylinder action	1. Air valve is dirty	1. Follow instructions to clean air valve.
Air Stage - Cylinder does not lower when DOWN pedal is pressed	1. Mechanical lock is engaged	1. Attach air hose and press UP pedal until cylinder is at full line pressure. Press DOWN pedal and mechanical lock should release.
Hydraulic Stage - Cylinder does not raise	1. Jack is out of prime	1. Follow instructions on bleeding air from the hydraulic system.
Hydraulic Stage - Cylinder lifts load, but doesn't hold	1. Release valve is not sealing 2. System oil is dirty	1. Clean or reseal release valve ball. 2. Replace hydraulic oil.
Hydraulic Stage - Cylinder does not raise to full height	1. Low oil level	1. Check oil level. Follow instructions on adding oil.

Maintenance

Adding Oil to the Hydraulic Stage *(See Figure 1)*

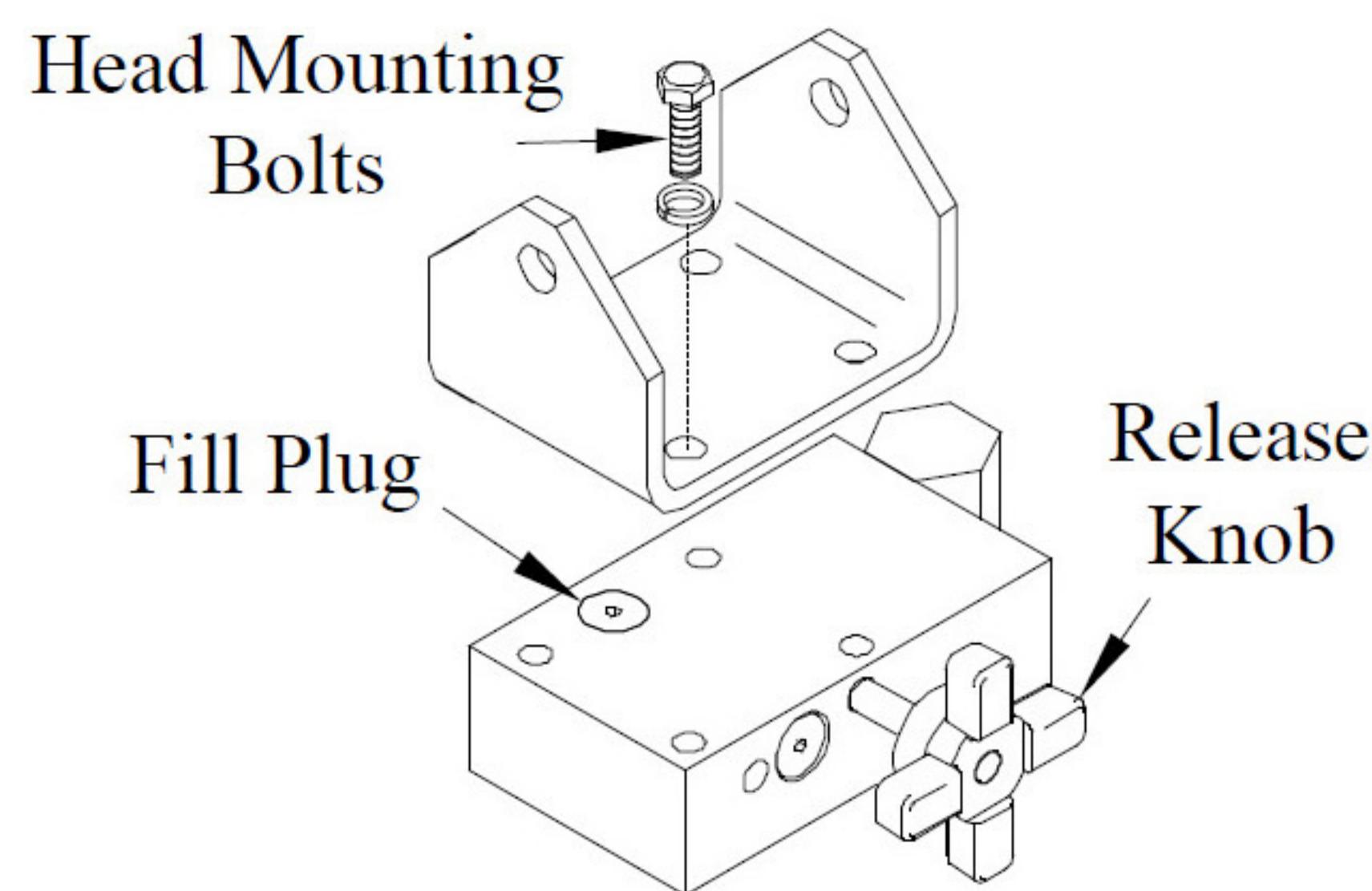
1. Position the jack upright with all four casters on the floor. Lower the hydraulic stage.
2. Remove the transmission adapter by removing the four bolts holding it to the jack.
3. Clean the top of the jack, concentrating on the area around the filler plug.
4. Remove the release knob. This serves as a vent while the reservoir is being filled.
5. Remove the filler plug.
6. Slowly add Mobile DTE #11 oil (or equivalent) until the reservoir overflows.
7. Install the release knob.
8. Install the filler plug, and mount the adapter.



Maintenance

With all four casters of the jack resting on the floor, lower the hydraulic stage fully and remove the head assembly by extracting the four head mounting bolts. Carefully clean the top of the jack to remove all dirt, especially in the vicinity of the fill plug. Remove the release knob by turning counterclockwise. Remove the fill plug and using a squirt-oil can, slowly add Tellus T22 oil (or equivalent) until reservoir overflows. Note: The release knob opening serves as reservoir vent during filling. Be sure to reinstall release knob and fill plug, and then remount the head assembly.

Replenishing Oil Supply



Maintenance

Cleaning the Air Control Valve *(Item numbers refer to Figure 2)*

1. Remove the fittings (1) from the ends of the air control valve. Clean the screen.
2. Insert a nail or stiff wire into the center of the control body (3), and push each valve spool (2) out of the body.
3. Look for foreign matter embedded in the valve seals (4). If this is the case, remove the screw (5) and cup (6) from the end of the spool, clean the seat, turn it over, and reassemble.
4. Lubricate the valve spool with light chassis grease.
5. Assemble the valve in this order: insert the valve spools; insert the springs; assemble the hexagon fittings into the body.

