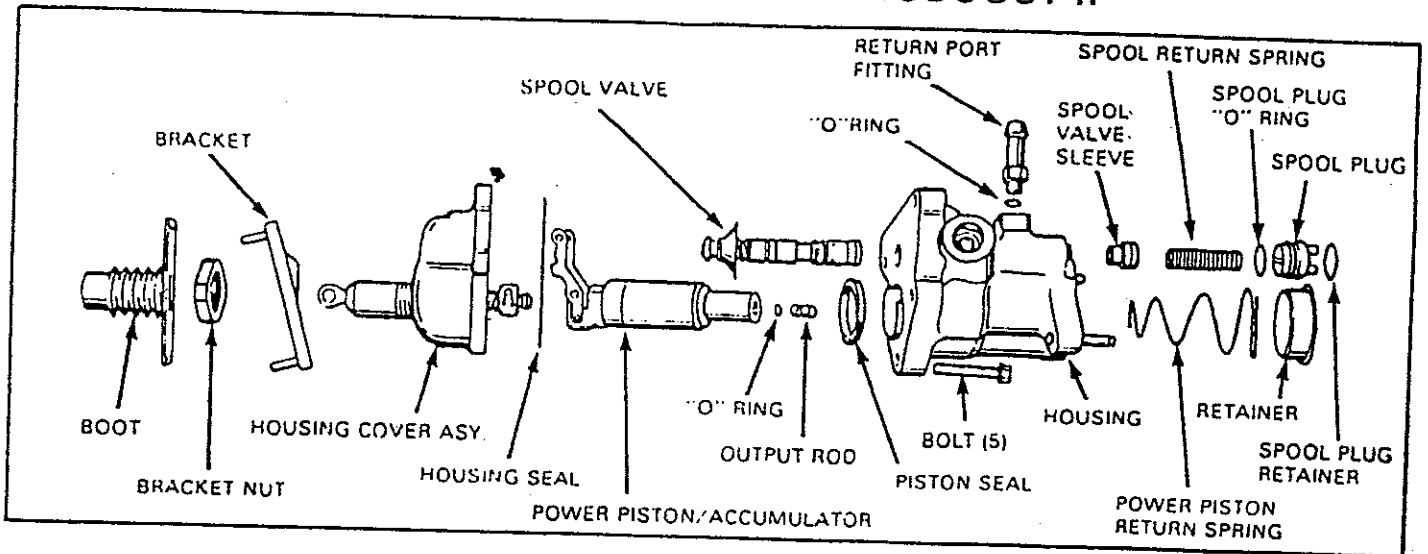




BENDIX HYDROBOOST II SERVICE GUIDE

This instruction sheet covers the installation of seals to repair leaks in Hydroboost II, from 1980, GM pass cars only.

EXPLODED VIEW OF HYDROBOOST II



Parts illustrated are typical in appearance and may not look exactly like the part required.

CAUTION: Before attempting to service Hydroboost II the ACCUMULATOR PRESSURE MUST BE RELIEVED. With engine off make several brake applications until pressure is relieved.

NOTE: All Hydroboost II have staked pedal rods and the pedal rod should not be removed. To service the seals or other parts contained in the cover assembly, you must purchase the cover assembly that includes the rod required.

HYDROBOOST II REMOVAL

1. Disconnect master cylinder from hydroboost. Do not disconnect steel brake tubes.
2. Disconnect fluid hoses from hydroboost.
3. Disconnect pedal rod at pedal.
4. Remove mounting bolt nuts and remove hydroboost.

DISASSEMBLY PROCEDURE

1. Remove mounting bracket. Cut retaining nut with chisel, remove boot and bracket. Retain bracket.
2. Depress spool valve plug and remove retainer. Discard retainer.
3. Remove spool valve plug and "O" ring. Discard "O" ring.
4. Remove pressure limiting sleeve (if present) and spool return spring.
5. Remove spring retainer from power piston bore if present and discard.
6. Remove return spring from power piston bore. See Figure 1.
7. Remove return hose fitting and "O" ring. Discard "O" ring.
8. Remove housing to cover bolts and slowly separate cover from housing, being careful spool valve is not dropped.
9. Remove spool valve assy.
10. Remove power piston and accumulator.
11. Remove housing to cover seal. Discard.

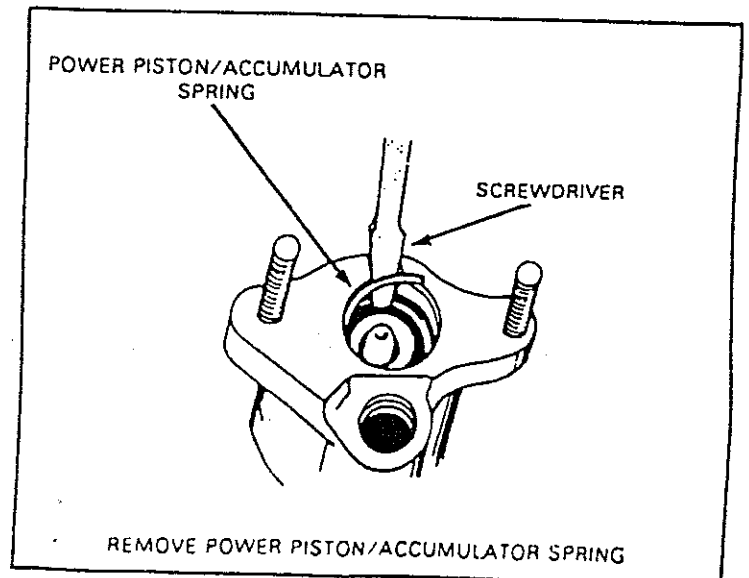


FIGURE 1

CLEANING AND INSPECTION

Clean all parts and housing in denatured alcohol, Stoddard solvent #32106675 or clean power steering fluid. Do not use transmission fluid.

If parts are left exposed for eight hours or more they must be re-washed at time of assembly.

Inspect spool valve and spool valve bore for scratches. If scratches can be felt with the fingernail complete hydroboost should be replaced. Never substitute a spool valve or housing, these parts have critical clearance tolerances.

Lubricate all parts and bores at assembly with clean power steering fluid.

1. Install new piston seal.
2. Start spool valve into bore.
3. Assemble power piston to input rod and cover assembly.
4. Install housing to cover seal.
5. Align power piston into bore, then attach spool valve to ratio levers and install spool valve and power piston assembly into place. See Figure II.
6. Install housing to cover bolts and torque to 20 ft. LB.
7. Install pressure limiting sleeve and spool return spring.
8. Install spool plug "O" ring and plug.
9. Install spool valve plug retainer. Be sure retainer is seated in groove.
10. Install power piston return spring. Be sure spring is seated on ledge inside bore.
11. Install "O" ring and return hose fitting. (torque to 7 ft. LB.)
12. Install bracket with bracket nut. (torque to 110 ft. LB and stake in place) Install boot.
13. Install hydroboost on vehicle.
14. Install hydraulic hoses. (torque to 20 ft. LB.)
15. Install master cylinder on hydroboost. (torque to 20 ft. LB.)

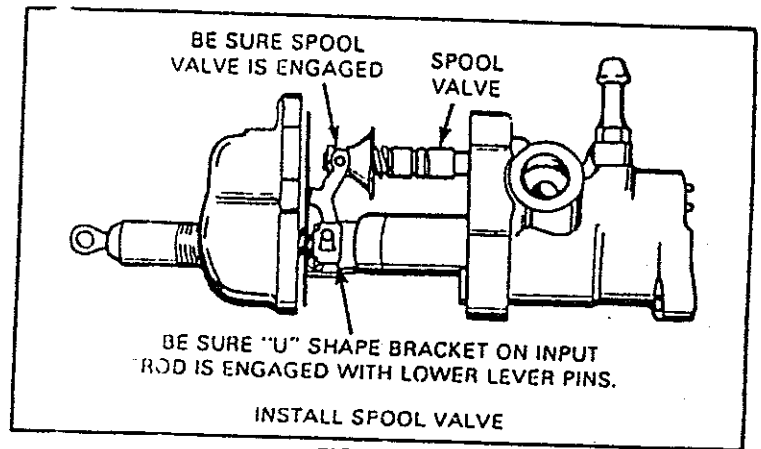


FIGURE II

BLEEDING PROCEDURE

1. Fill power steering pump reservoir.
2. Crank engine for several revolutions. (Do not start engine)
3. Check reservoir fluid level, add if necessary.
4. Start engine, turn steering wheel from stop to stop twice.
5. Stop engine, depress brake pedal four or five times to relieve accumulator pressure.
6. Check fluid level, add if necessary
7. Start engine, turn steering wheel from stop to stop. Stop engine, check fluid.
8. If foaming occurs, wait for one hour, check fluid level, add if necessary.
9. Road test vehicle.