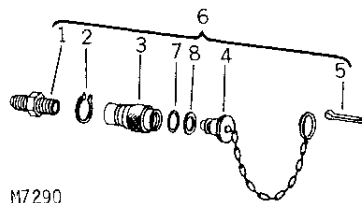


## HYDRAULIC COUPLER



M7290

- 1—Hose Union
- 2—Snap Ring
- 3—Hydraulic Coupler
- 4—Rubber Dust Plug
- 5—Cotter Pin
- 6—Hydraulic Kit
- 7—O-Ring
- 8—Backup Washer

Fig. 5-Hydraulic Coupler

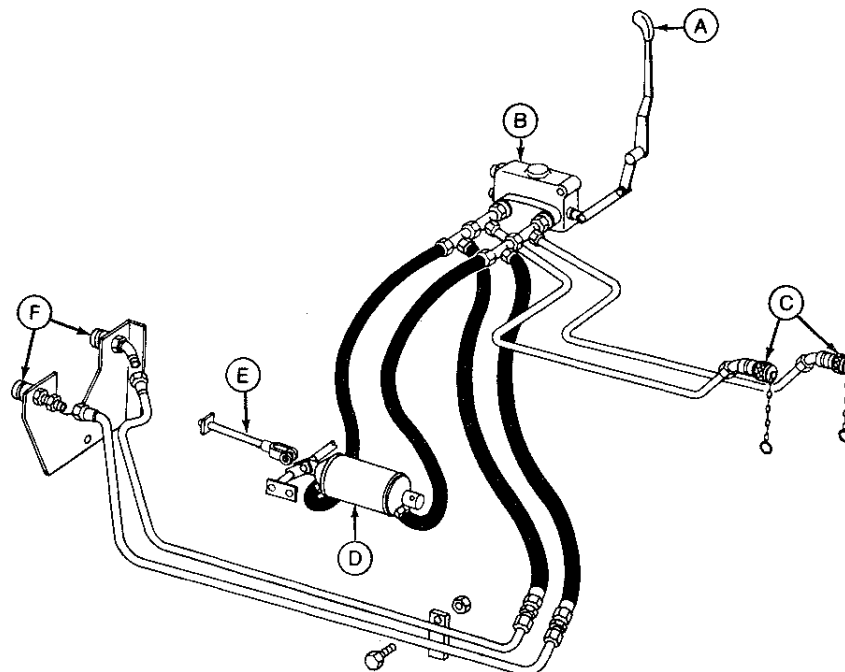
If leakage occurs at the hydraulic couplers, remove coupler and inspect it for damaged O-rings, dirt or scoring.

Whenever couplers are removed from tractor, plug lines to prevent entrance of dirt. Also advise customers that they should always install dust plugs and dust caps when the coupler is uncoupled.

Do not attempt to repair coupler by removing inside ball checks and seats. These parts have been factory assembled to very close tolerances and should be repaired only at the factory.

Replace O-ring, Figure 5, and reinstall coupler using sealing compound on the male threads.

## REAR HYDRAULIC OUTLETS (EXTRA EQUIPMENT) 312 AND 314 TRACTORS



M22794N

- A—Control Lever
- B—Control Valve

- C—Front Couplers
- D—Rockshaft Cylinder

- E—Lock-Out Link
- F—Rear Couplers

Fig. 6-312 and 314 Tractors Rear Hydraulic Outlets

The 312 and 314 Tractors can be equipped with rear hydraulic outlets to accommodate the use of the 3-point hitch or other allied equipment.

A lock-out link (E) is required to provide instantaneous action when using rear-mounted equipment.

## DIAGNOSING MALFUNCTIONS

Problem	Cause	Remedy
Little or no lift power.	Fluid low in system. Improper viscosity oil. Plugged filter. Insufficient engine speed. Broken implement line. Low charge pressure.	Fill to proper level. Change oil. Change filter. Increase engine speed. Replace line. Check drive shaft is turning charge pump. Check charge pump.
	Implement relief valve faulty. Damaged linkage.	Change relief valve. Straighten or repair linkage.
System overheats.	Fluid low in system. Contaminated oil. Relief valve set too high. Improper oil. Hydraulic lines restricted or crimped. System leaks. Filter plugged.	Fill to proper level. Change oil and filter. Replace relief valve. Change oil. Straighten or replace hydraulic lines. Check fittings and lines. Replace filter.
Low system pressure.	Fluid low in system. Filter plugged. Damaged lines. Weak relief valve. Worn charge pump.	Fill to proper level. Replace filter. Replace or repair lines. Repair or replace valve. Repair or replace pump.
External leakage.	Loose screws. Damaged O-rings. Damaged lines or loose connections. Valve spool worn or damaged.	Tighten screws. Replace O-rings. Check fittings and lines. Replace control valve.
Work load lowers with spool in slow raise position.	Damaged lift check plunger. Damaged lift check seat in body. Damaged O-rings. Damaged lines or loose connections.	Replace lift check plunger. Replace control valve. Replace O-rings. Check fittings and lines.
Work load drops with spool in neutral position.	Damaged cylinder packing. Line to cylinder leaking. Internal leakage between spool and valve body.	Replace cylinder. Tighten or replace hose. Replace control valve.
Valve spool sticking.	Misaligned control linkage. Foreign material in spool bore.	Correct alignment. Remove spool. Clean spool and bore.