# SPECIAL TORQUES

| | U.S. Value | Metric Value |
|---|---|---|
| Aftercooler Bolts | 18 lb ft | 24 Nm (2.4 kgm) |
| Air Crossover Elbow to Intake Aftercooler | 18 lb ft | 24 Nm (2.4 kgm) |
| Alternator Bracket Bolts (Lower) | 18 lb ft | 24 Nm (2.4 kgm) |
| Alternator Bracket Bolts (Upper) | 18 lb ft | 24 Nm (2.4 kgm) |

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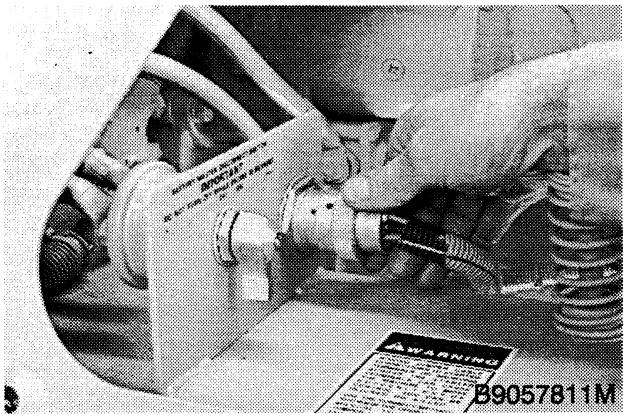
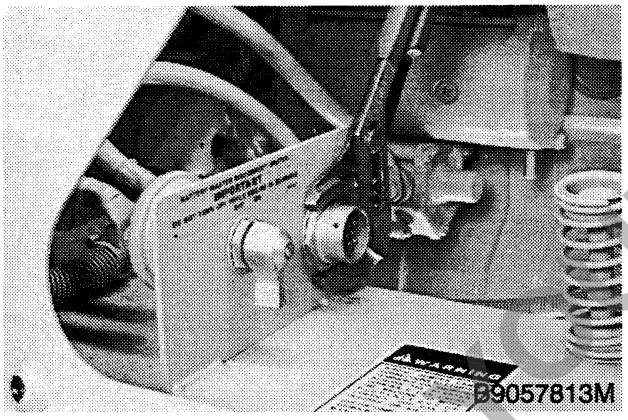
STEP 7



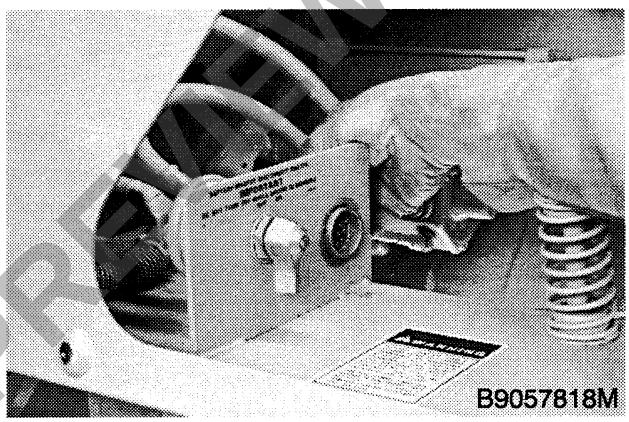

Disconnect the wire harness from the connector.

STEP 8



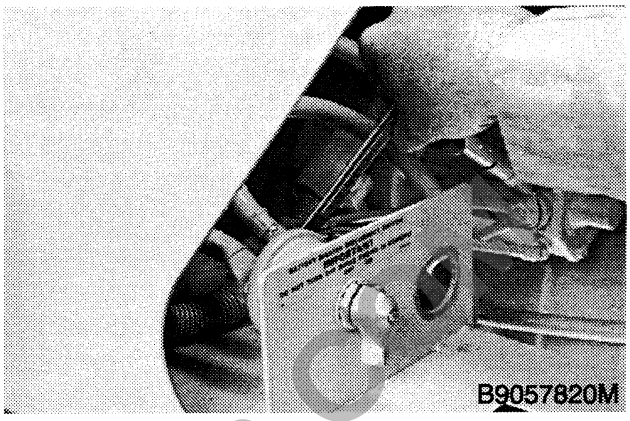

Loosen and remove the nut for the connector.

STEP 9



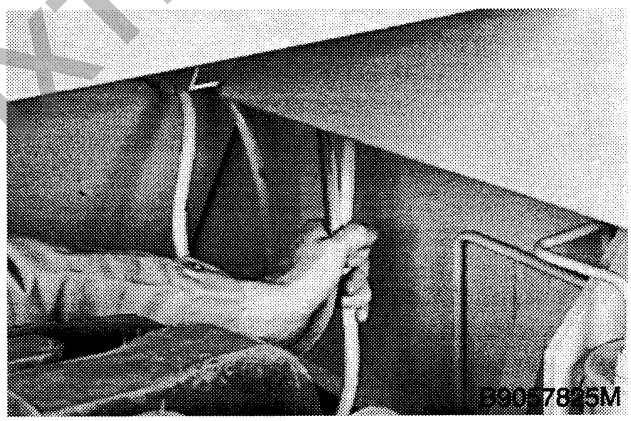

Remove the connector.

STEP 10



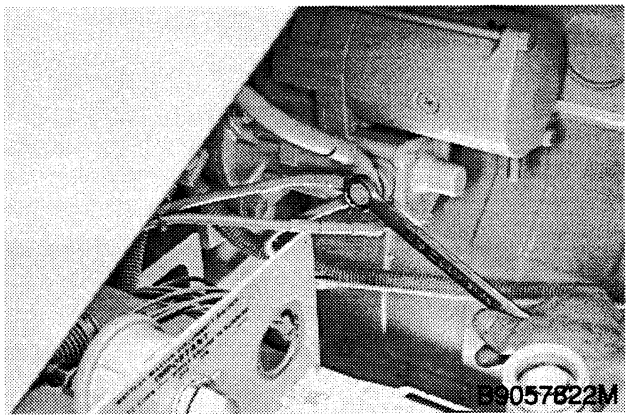

Fasten identification tags to the cables for the master disconnect switch. Disconnect the cables from the master disconnect switch.

STEP 11




Remove the cables from the right hood.

STEP 12




Fasten identification tags to the cables at the starter. Disconnect the cables from the battery terminal of the starter solenoid. Disconnect the cable from the switch terminal of the starter solenoid.



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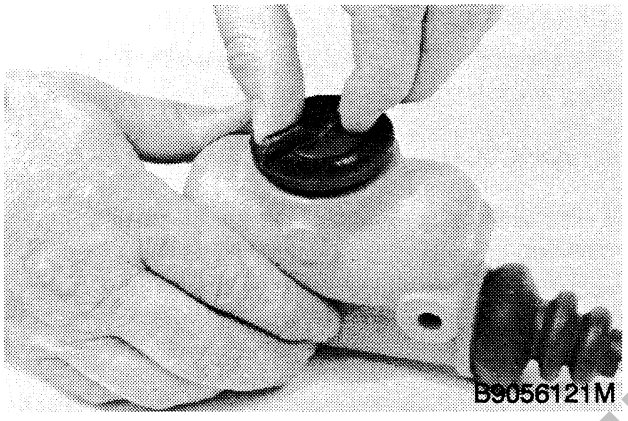
# MASTER CYLINDER

## Disassembly

NOTE: *The push rod in this procedure is shown with the clevis installed. Do not remove the clevis unless one of the parts is to be replaced. If the parts are to be disassembled, measure the total length of the parts before disassembly so that the new parts can be assembled to this dimension.*

### STEP 1



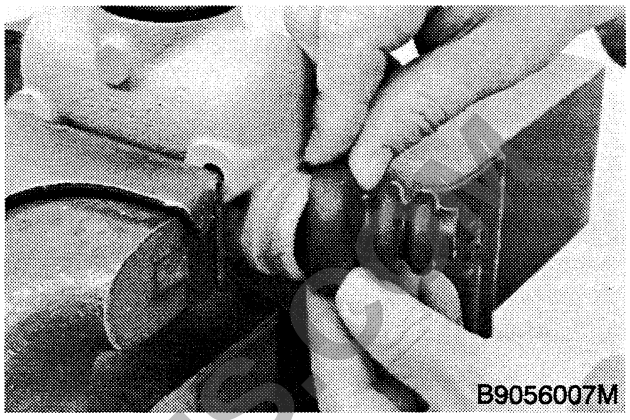

Remove the filler cap and drain the master cylinder.

### STEP 2



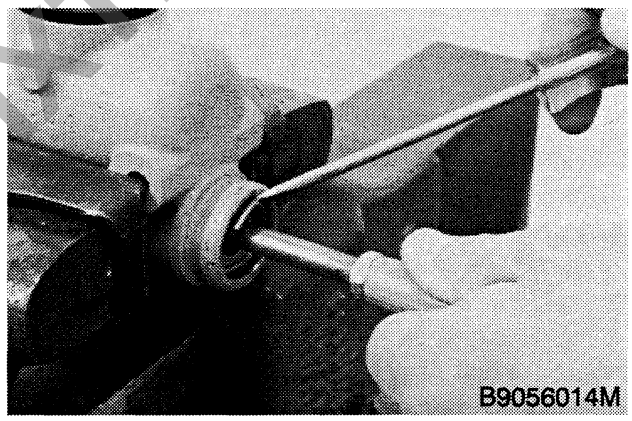
Remove the push rod assembly.

### STEP 3



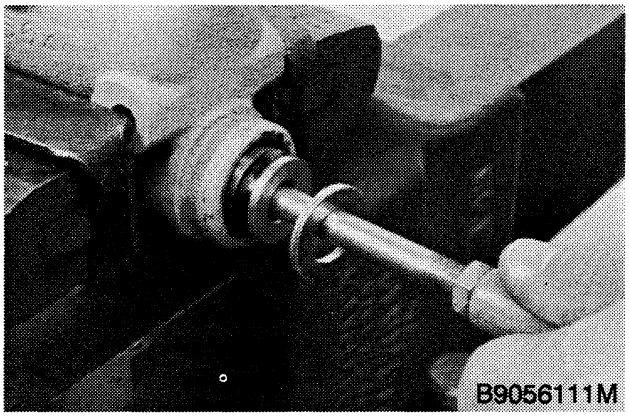

Remove the boot.

### STEP 4




The piston in the master cylinder is under spring tension. Use the push rod to push in the piston so that the retaining ring can be removed. Remove the retaining ring.

### STEP 5




Slowly release the push rod and remove the washer and piston.



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## (4) Starter and Starter Solenoid

| Check Points | Reading | Possible Cause of Bad Reading |
|---|---|---|
| **NOTE:** *Put the master disconnect switch in the ON position.* | | |
| Battery terminal of starter solenoid to ground | 24 volts | Check the battery cable between the starter and the positive post of the battery. |
| **NOTE:** *Put the transmission control lever in NEUTRAL. Have another person hold the key switch in the START position.* | | |
| Terminal for wire 21P | 24 volts | Check the wire between the starter solenoid and |

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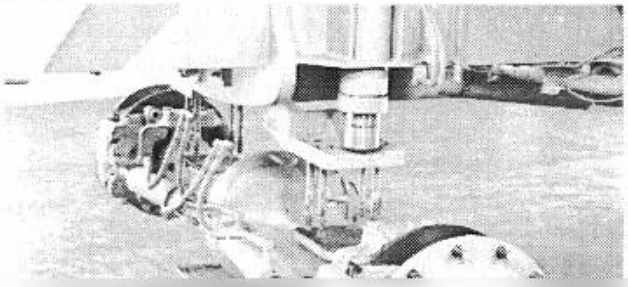
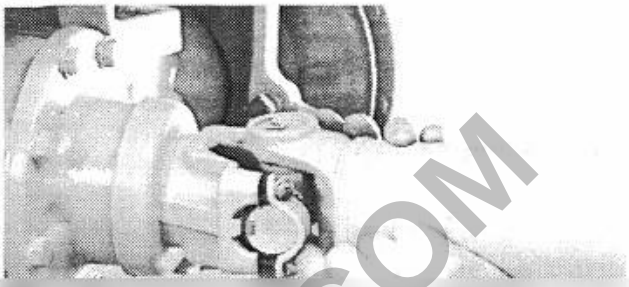
# INSTALLATION OF FRONT AXLE

STEP 13



STEP 16



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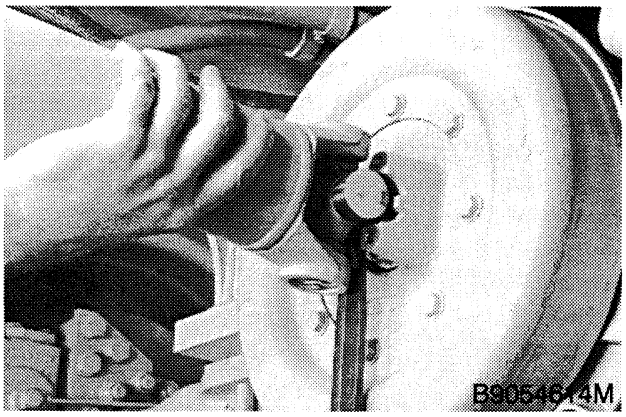
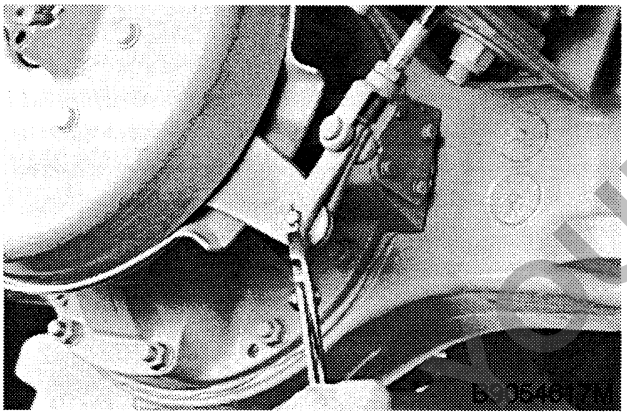
STEP 9



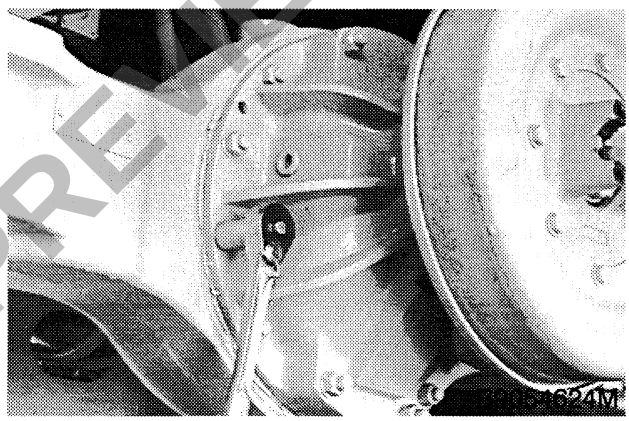

Disengage the universal joint from the flange and put the drive shaft out of the way.

STEP 10



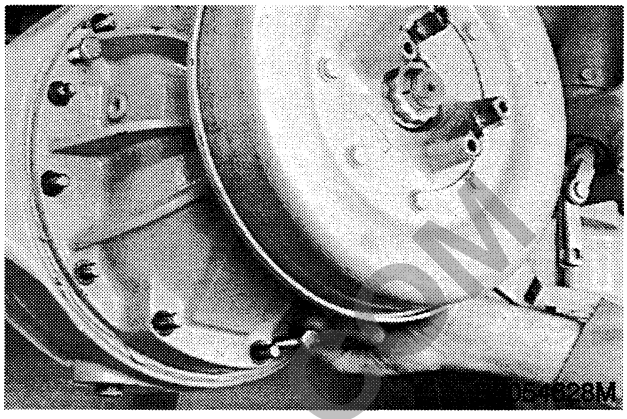
With the engine running at low idle, the foot brakes applied and the parking brake released, remove the cotter pin and clevis pin.

STEP 11



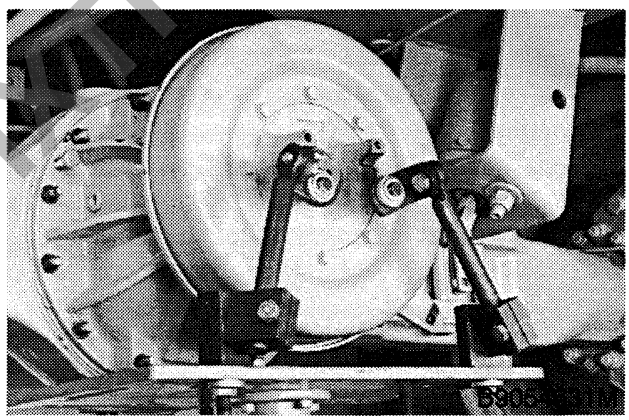
Loosen and remove the self-locking nuts and hardened washers.

STEP 12



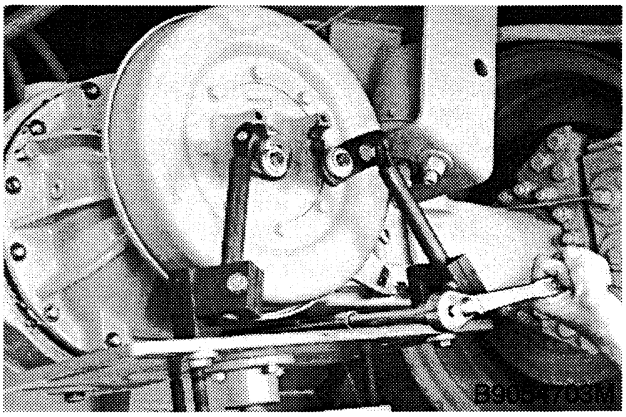
Install cap screws in the threaded holes in the differential carrier.

STEP 13



Fasten a transmission jack or other acceptable lifting equipment to the flange as shown.

STEP 14



Tighten the cap screws to free the differential carrier from the axle housing.



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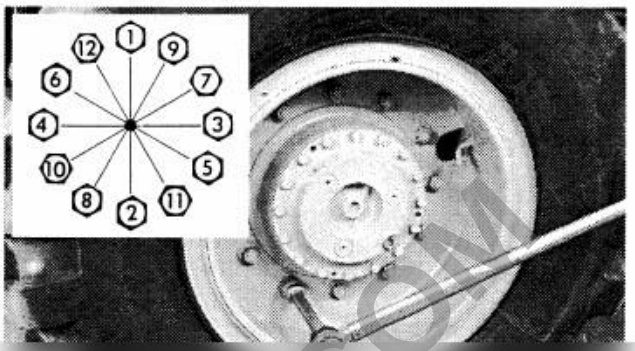
STEP 13



STEP 15



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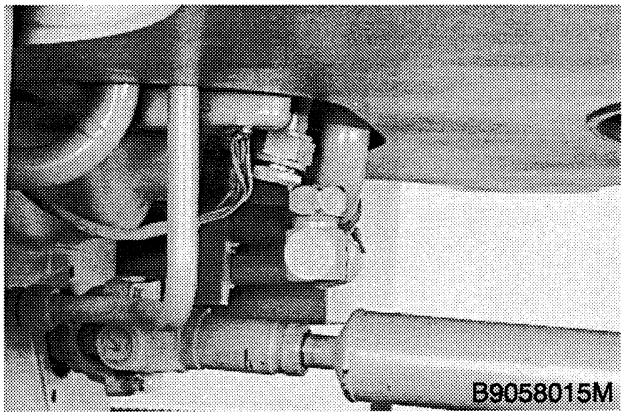
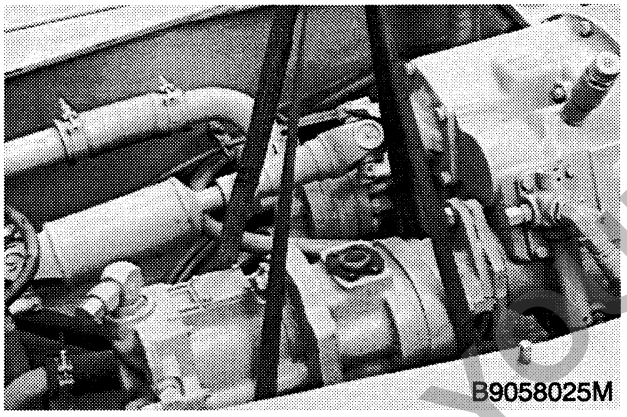
## STEP 13



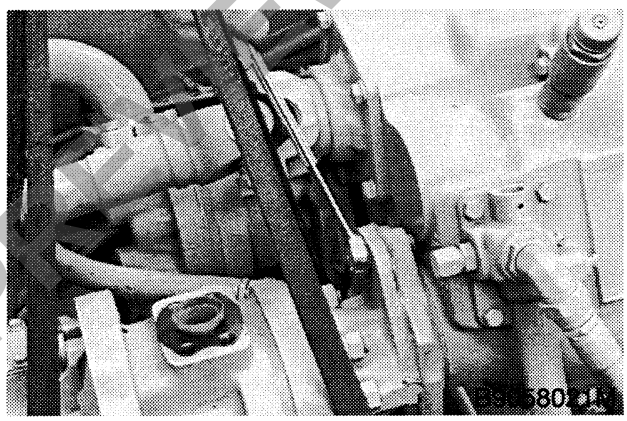

Install a plug in the tube and a cap on the fitting.

## STEP 14



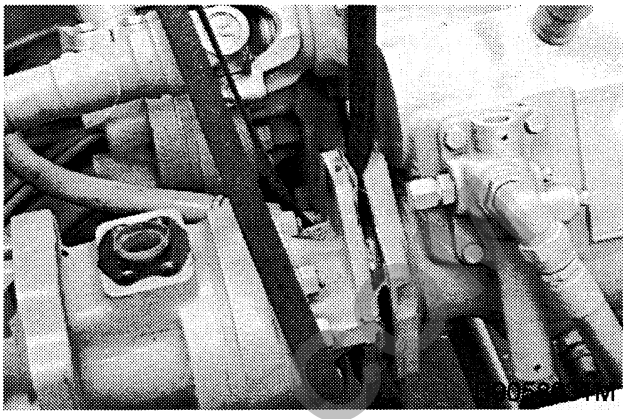

Connect suitable lifting equipment to the pumps. The weight of the pumps is approximately 90 pounds (40.8 kg).

## STEP 15



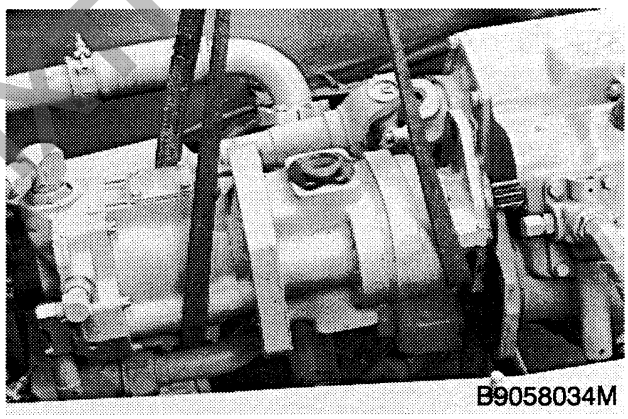
Loosen and remove the cap screws and hardened washers that hold the pumps.

## STEP 16



Use a prybar to separate the pump from the torque converter.

## STEP 17




Remove the pumps.

## STEP 18

Remove the fittings and tube from pump for steering and controls.

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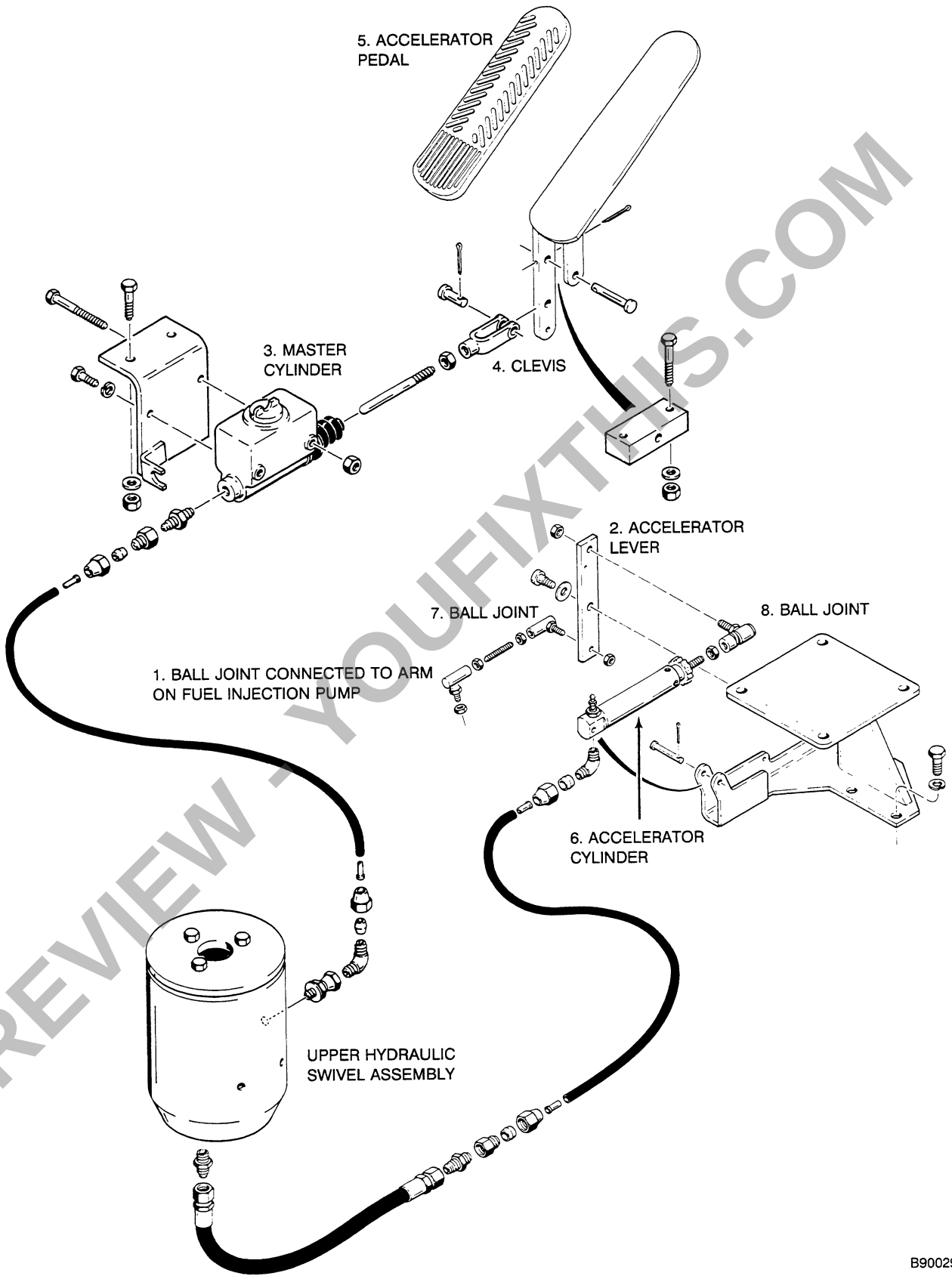


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