

Removal—Continued

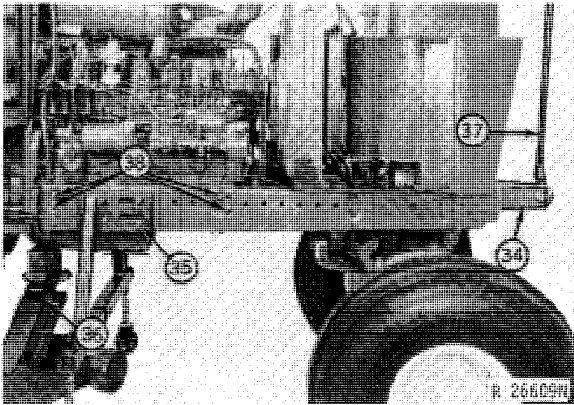


Fig. 60-Attaching Lift Bracket and Splitting Stand

34. Install JDE-7 Lift Bracket on front end.
35. Attach JDG-12-1 Splitting Stand to side frames.
36. Position a floor jack under clutch housing-to-engine parting surface.
37. Attach a chain hoist to JDE-7 Lift Bracket.
38. Remove side frame-to-engine cap screws.
39. Roll front end away from engine.

INSTALLING FRONT END 4630

Special Tools

JDST-28 Belt Tensioning Tool (Fig. 45, p. 10-25-18).

Assembly

Reverse the removal steps given on the preceding pages and note the special installation instructions which follow.

1. Tighten hydraulic pump support-to-engine cap screws to 85 ft-lbs (115 Nm) (11.5 kgm).

2. Tighten pump drive coupling to 30 ft-lbs (41 Nm) (4.1 kgm).
3. Tighten side frame-to-engine cap screws to 275 ft-lbs (373 Nm) (37.3 kgm).
4. Tighten air conditioning compressor drive belt to deflect 1/4 inch (6.35 mm) with a 15-lb. (67 N) force (Fig. 4, p. 10-25-19).
5. Tighten fan belts to deflect 1 inch (25.40 mm) with a 25-lb. (111 N) force (Fig. 46, p. 10-25-19).

SEPARATING CLUTCH HOUSING FROM POWER SHIFT TRANSMISSION CASE

Removal

NOTE: If access to the rear clutch pack, planetary pack, or PTO gear train is desired, remove the Sound-Gard Body with control support, and separate the engine from the clutch housing as previously instructed. If access to only the front clutch pack is desired, only separate the engine from the clutch housing.

1. (Not Illustrated) Separate the engine from the clutch housing as previously instructed.
2. (Not Illustrated) Drain the transmission.

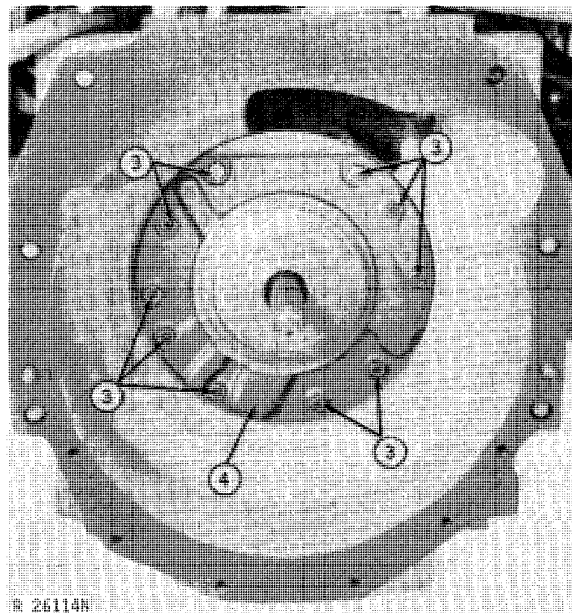


Fig. 61-Clutch Pack and Transmission Pump

3. Remove clutch pack-to-housing cap screws.
4. Remove clutch pack and transmission pump assembly.

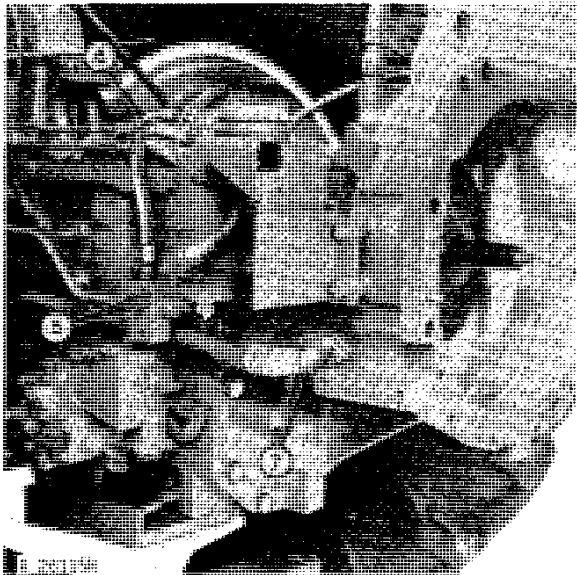


Fig. 62-Right Side Removal Steps

5. Remove pressure oil manifold-to-clutch housing cap screws.
6. Remove pressure oil manifold-to-attenuator hose from attenuator.
7. Remove transmission oil pump intake elbow.

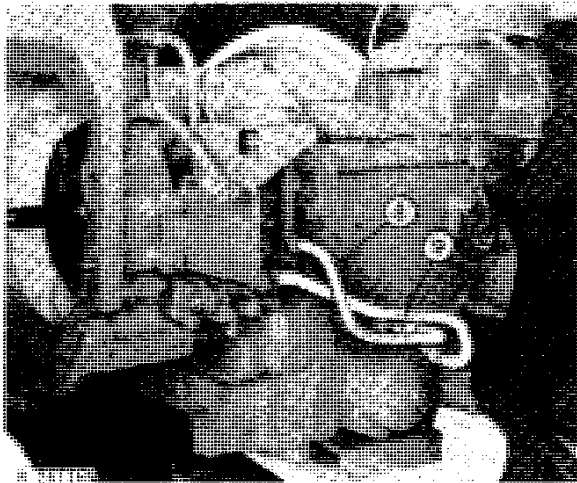


Fig. 63-Left Side Removal Steps

8. Remove oil filter inlet pipe.
9. Remove oil filter-to-regulator housing pipe.

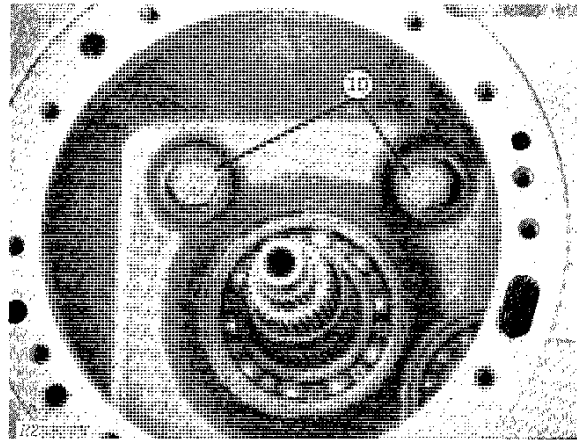


Fig. 64-Cap Screws

10. Remove two hidden clutch housing-to-transmission cap screws.

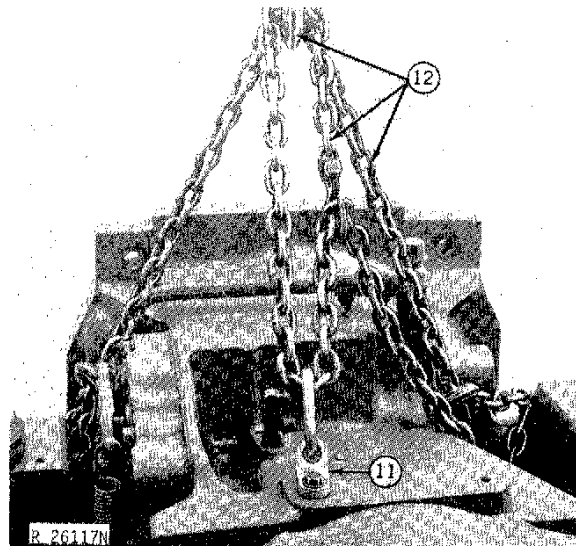


Fig. 65-Attaching Chain Hoist

11. Attach JDG-19 Lift Eye to clutch housing.
12. Attach a chain hoist and chain with a 400-lb. (181.4 Kg.) capacity or greater to clutch housing.
13. (Not Illustrated) Remove clutch housing-to-transmission case cap screws.

Removal—Continued

IMPORTANT: When separating clutch housing from transmission case, do not lose small rubber "O" rings.

14. (Not Illustrated) Separate clutch housing from transmission case.

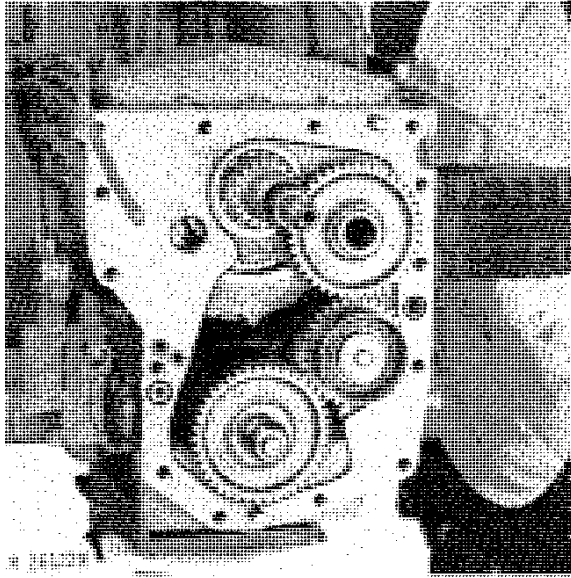


Fig. 66-Clutch Housing Removed

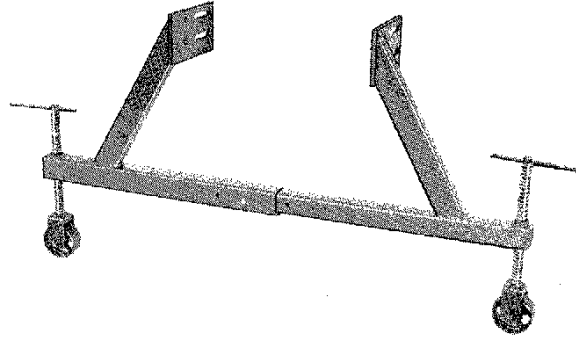
Installation

Reverse the removal steps on the preceding pages and note the special installation instructions which follow.

1. (Not Illustrated) Insure that O-rings between clutch housing and transmission are in position before assembly.
2. (Not Illustrated) Tighten the clutch housing-to-transmission cap screws.
5/8 inch 170 ft-lbs (230 Nm) (23 kgm)
3/4 inch 300 ft-lbs (406 Nm) (40.6 kgm)
3. (Not Illustrated) Tighten oil filter inlet pipe elbow cap screws to 45 ft-lbs (61 Nm) (6.1 kgm).

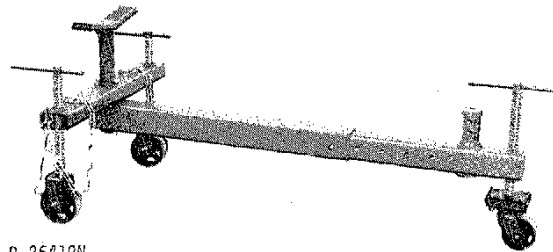
SEPARATING THE CLUTCH HOUSING FROM QUAD-RANGE TRANSMISSION CASE

Special Tools



R 26619N

Fig. 67-JDG-12-1 Splitting Stand*



R 26419N

Fig. 68-JDG-2M Rear Splitting Stand*

*Service Tools Inc.,
Box 314, Owatonna MN 55060

Removal

1. Remove Sound-Gard Body without control support.
2. Drain the transmission.

IMPORTANT: Remove hexagonal transmission pump drive shaft before beginning separation. Install drive shaft last.

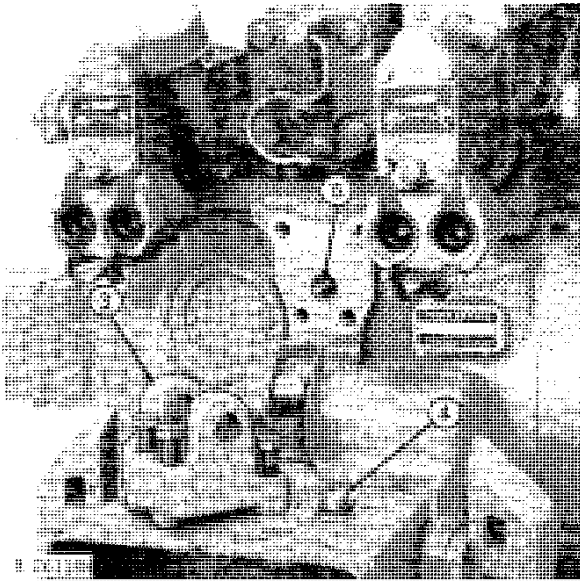


Fig. 69-Removing Transmission Pump Drive Shaft

3. Remove center link attaching bracket.
4. Remove plug.
5. Carefully withdraw transmission pump drive shaft.

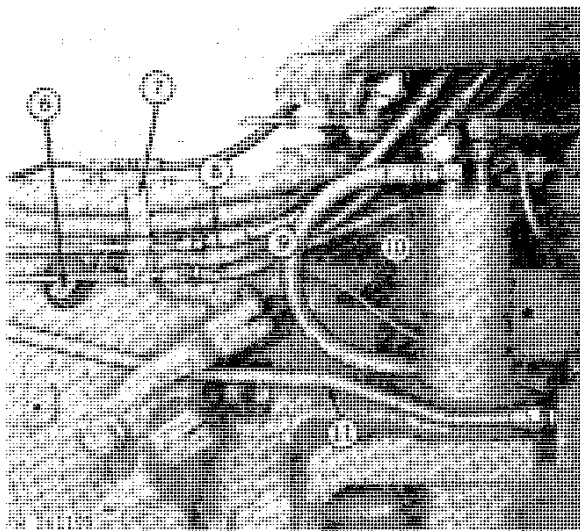


Fig. 70-Right Side Removal Steps

6. Remove start safety switch wiring.
7. Bend open heater hose clamp, and remove heater hoses.

⚠ CAUTION: Before disconnecting brake pressure lines, be sure that the brake accumulator is discharged. The accumulator can be discharged by opening the right-hand brake bleed screw, and holding the pedal down for a few minutes.

8. Disconnect right-hand brake line.
9. Disconnect differential lock pressure line.
10. Disconnect transmission pump seal drain line from transmission.
11. Remove rockshaft pressure pipe.

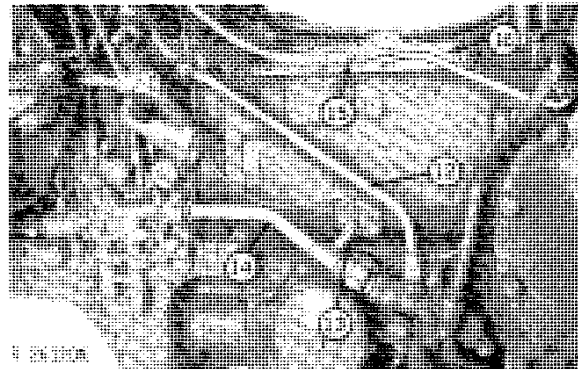


Fig. 71-Left Side Removal Steps

12. Remove clutch valve pressure oil pipe.
13. Disconnect pressure switch wiring.
14. Remove oil filter relief bypass pipe.
15. Disconnect left-hand brake line.
16. Remove transmission case cover.

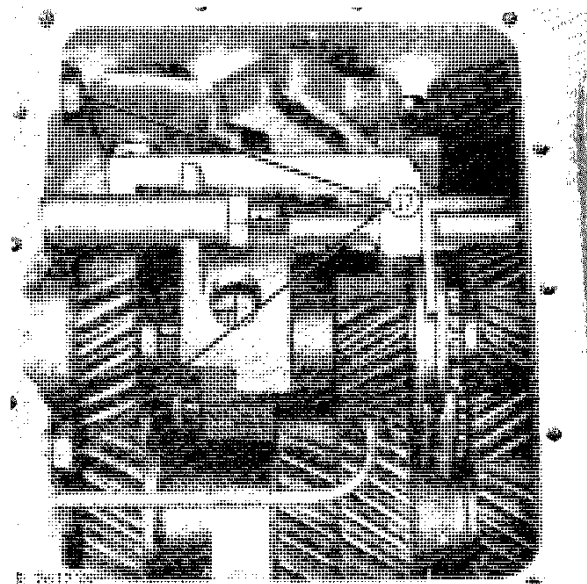


Fig. 72-Cap Screws



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