

TM10849 - 310SJ Backhoe Loader (S.N. 159760—) Clutch Packs Remove

Clutch Packs Remove



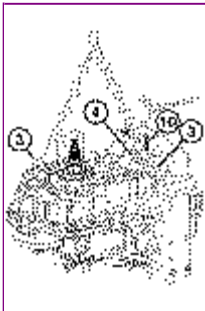
1. TX1020103-UN: Transmission Case Cap Screws and Pin Removal

LEGEND:

- 1 - Dowel Pin (2 used)
- 2 - Cap Screw (24 used)

Drive dowel pins (1) out of transmission case halves.

2. Remove cap screws (2).
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3. TX1021409-UN: Tap MFWD Shaft to Remove Screen

LEGEND:

- 3 - Eyebolt (M8x1.0) (2 used)
- 4 - Screen
- 10 - MFWD Clutch Shaft

Install eyebolts (3) in case.

4. Attach a chain and hoist to eyebolts (3) and separate case halves approximately 10 mm (0.39 in.).
 5. Tap on mechanical front wheel drive (MFWD) output shaft with plastic hammer to separate screen (4) from transmission housing.
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6. TX1022516-UN: Transmission Case Remove

LEGEND:

- 3 - Eyebolt (M8x1.0) (2 used)
- 4 - Screen

Separate transmission housing and remove screen.



7. TX1022514-UN: Clutch Remove

LEGEND:

- 5 - Low Range Forward Clutch Pack
- 6 - High Range Forward Clutch Pack
- 7 - Reverse Clutch Pack
- 8 - First Speed Clutch Pack
- 9 - Second Speed Clutch Pack
- 10 - Mechanical Front Wheel Drive (MFWD) Clutch Pack

Mark clutch pack and transmission case for aid of assembly, before removing clutch packs from case.

8. Remove high range forward clutch pack (6).
9. Remove low range forward clutch pack (5) and reverse clutch pack (7) together.
10. Slightly lift second speed clutch pack (9) to remove first speed clutch pack (8).



11. TX1020112-UN: Second, Third, and MFWD Clutch Pack Removal

LEGEND:

- 9 - Second Speed Clutch Pack
- 10 - Mechanical Front Wheel Drive (MFWD) Clutch Pack
- 11 - Third Speed Clutch Pack
- 12 - Eyebolt (M8x1.0) (2 used)
- 13 - Screen Sheet

Install eyebolts (12).

- 12.

**CAUTION:**

Prevent possible crushing injury from heavy component. Use appropriate lifting device.

Remove clutch packs (9—11) together with screen sheet (13).

Item	Measurement	Specification
Second, Third, and MFWD Clutch Pack	Weight (approximate)	27 kg 60 lb.

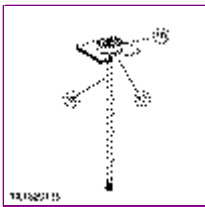


13. TX1020113-UN: Pump Drive Shaft Removal

LEGEND:

- 14 - Snap Ring
- 15 - Pump Drive Shaft

Remove snap ring (14) to remove pump drive shaft (15).



14. TX1020115-UN: Pump Shaft Bearing Removal

LEGEND:

- 16 - Ball Bearing
- 17 - Snap Ring
- 18 - Pump Drive Shaft

Remove snap ring (17).

15. Remove ball bearing (16).



16. TX1023851-UN: O-Ring and Bearing Outer Races

LEGEND:

- 19 - Bearing Cup (5 used)
- 23 - O-Ring (2 used)

Remove O-rings (23).

17. **IMPORTANT:**

If either the bearing cone or cup requires replacement, replace both as a set. Internal transmission

damage can occur.

Mark bearing cup and transmission case for aid of assembly and remove bearing cups (19), if necessary.



18. TX1020118-UN: Torque Converter Side Bearing Outer Rings and Suction Tube Removal

LEGEND:

- 20 - Bearing Cup (7 used)
- 21 - Cap Screw (2 used)
- 22 - Oil Suction Tube

Remove oil suction tube (22).

19. **IMPORTANT:**

If either the bearing cone or cup requires replacement, replace both as a set. Internal transmission damage can occur.

Mark bearing cup and transmission case for aid of assembly and remove bearing cups (20), if necessary.

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