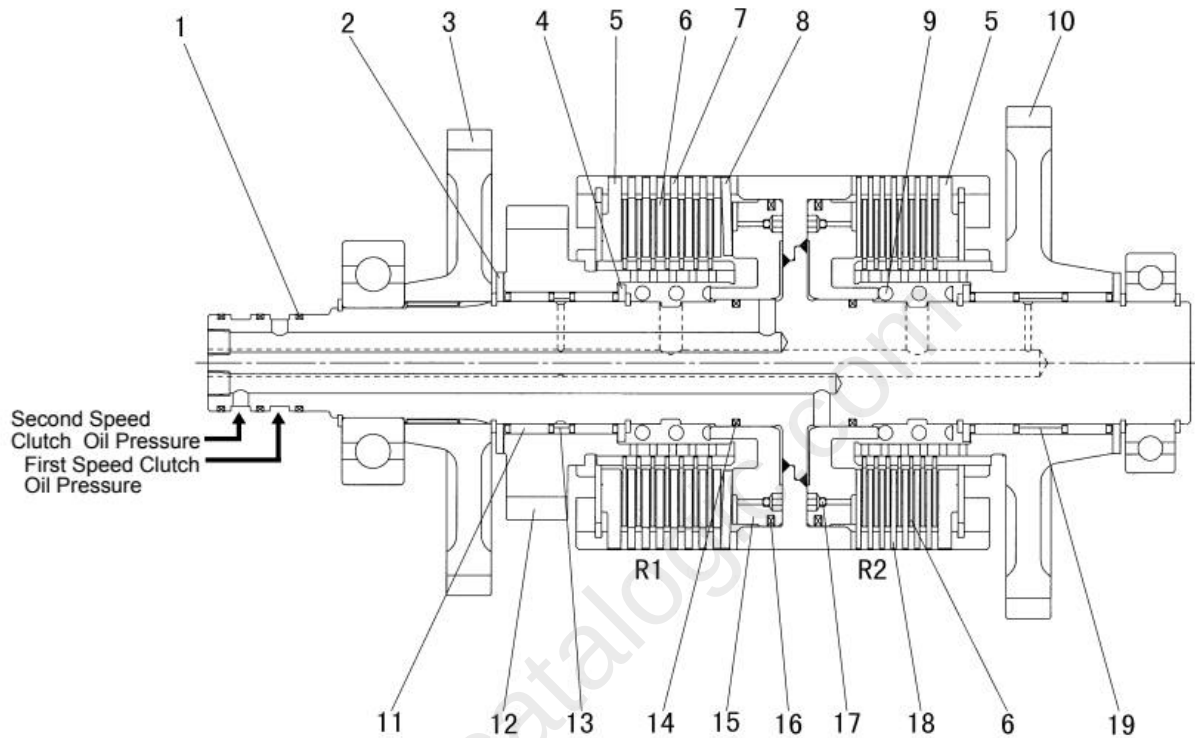




# Service Manual

## Drive Unit

|                |                        |
|----------------|------------------------|
| <b>FD70NH</b>  | <b>30E-00001-09999</b> |
| <b>FD80NH</b>  | <b>30F-00001-09999</b> |
| <b>FD100NH</b> | <b>30G-00001-09999</b> |



- |                     |                     |
|---------------------|---------------------|
| 1. SEAL RING        | 11. NEEDLE BEARING  |
| 2. THRUST PLATE     | 12. 1st CLUTCH GEAR |
| 3. COUNTER GEAR     | 13. SPACER          |
| 4. THRUST PLATE     | 14. SEAL RING       |
| 5. END PLATE        | 15. PISTON          |
| 6. FRICTION PLATE   | 16. SEAL RING       |
| 7. SEPARATOR PLATE  | 17. CHECK BALL      |
| 8. CONICAL PLATE    | 18. SEPERATER PLATE |
| 9. RETURN SPRING    | 19. SPACER          |
| 10. 2nd CLUTCH GEAR |                     |

**Fig. 2.9** Reverse Clutch Pack

- ② Remove the five bolts securing the parking shaft cap to the transmission case. Remove the cap.

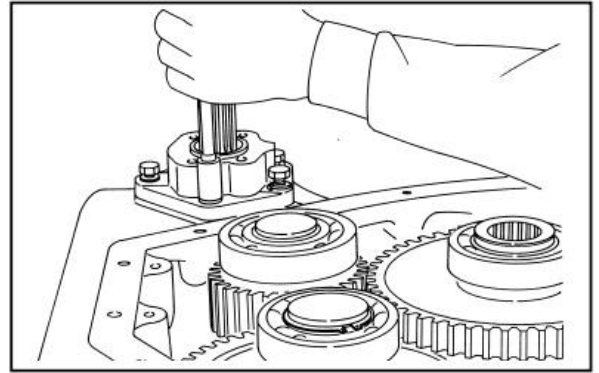


Fig. 3.24

- ③ Pull out the parking shaft upward from the transmission case. Remove the shaft bearing with the help of a puller.

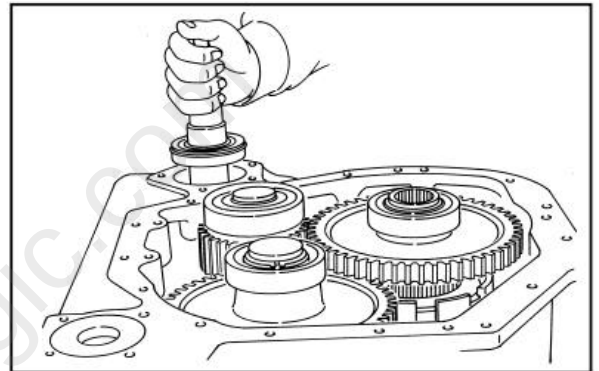


Fig. 3.25

- ④ Lift the forward clutch shaft with a hoist and remove it from the transmission case.

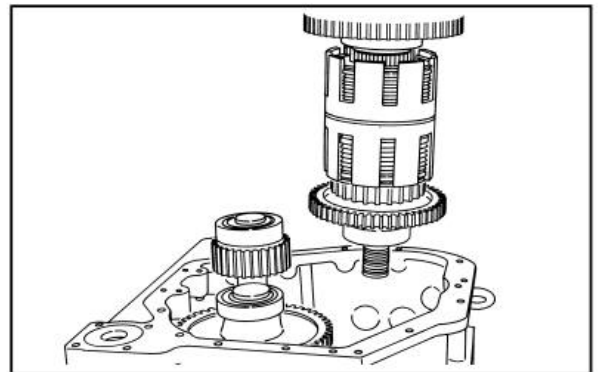


Fig. 3.26

- ⑤ Lift the reverse clutch shaft with a hoist and remove it from the transmission case.

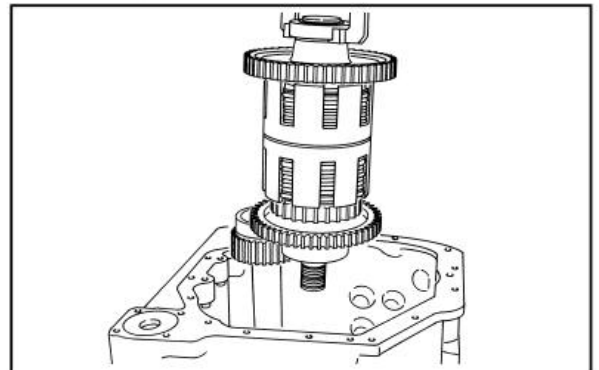
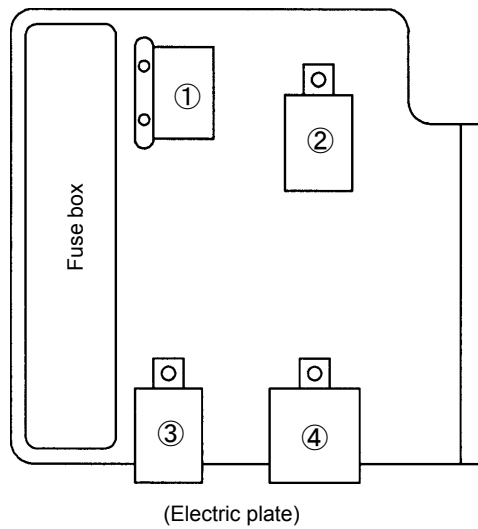


Fig. 3.27

## Check B. Checking relays



Color of harness  
 Relay ① : Neutral relay (BR, Br, Y, WR)  
 Relay ② : Safety relay (GY, B, LR, Br)  
 Relay ③ : F/R relay (F) (G, B, YR, Lg)  
 Relay ④ : F/R relay (R) (YR, WY, YR, V)

| Fault                                      | Remedy                           |
|--------------------------------------------|----------------------------------|
| Engine won't start                         | Replace relays ① , ② , ③ and ④ . |
| Truck moves in neither forward nor reverse | Replace relays ③ and ④ .         |
| Truck does not move in forward             | Replace relay ③ .                |
| Truck does not move in reverse             | Replace relay ④ .                |

- ⑨ Fit the conical plate in the clutch drum, engaging the plate with the drum lug.

**Note:** Point the convex part to the piston side.

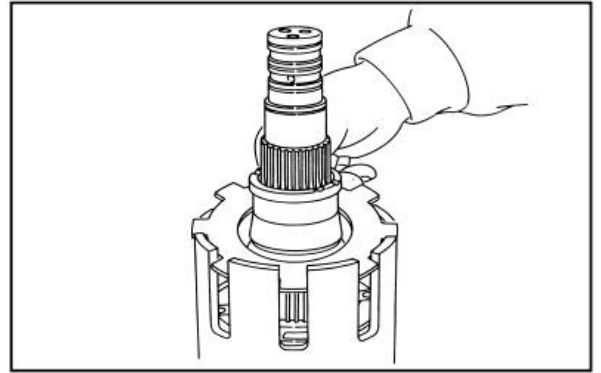


Fig. 4.37

- ⑩ Install the separator plate.

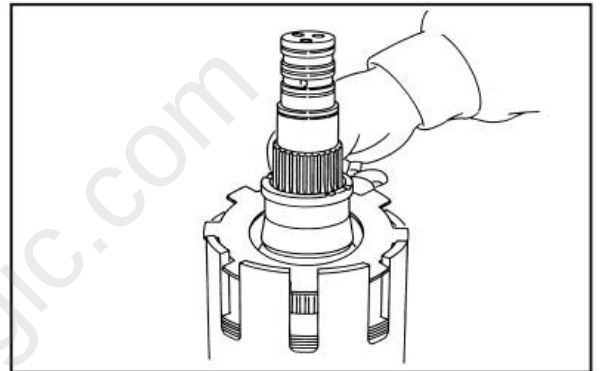


Fig. 4.38

- ⑪ Fit the friction plate, engaging with the splines of the jig. Alternate the seven separator plates and seven friction plates.

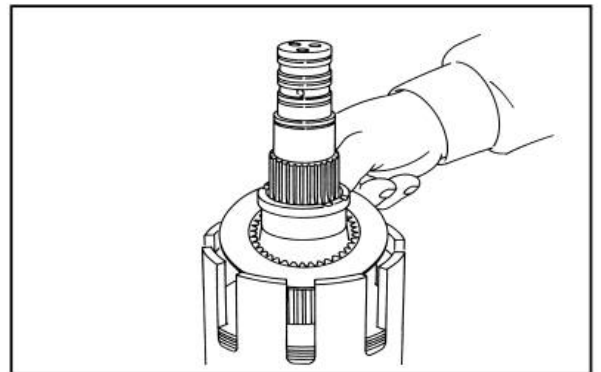


Fig. 4.39

- ⑫ Fit the end plate. Attach the snap ring.

**Note:** Point the stepped part of the end plate outside.

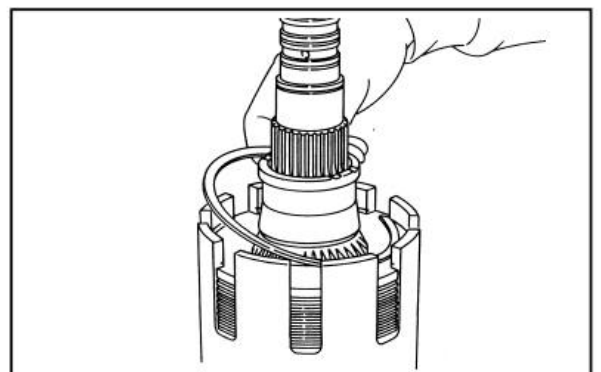


Fig. 4.40

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