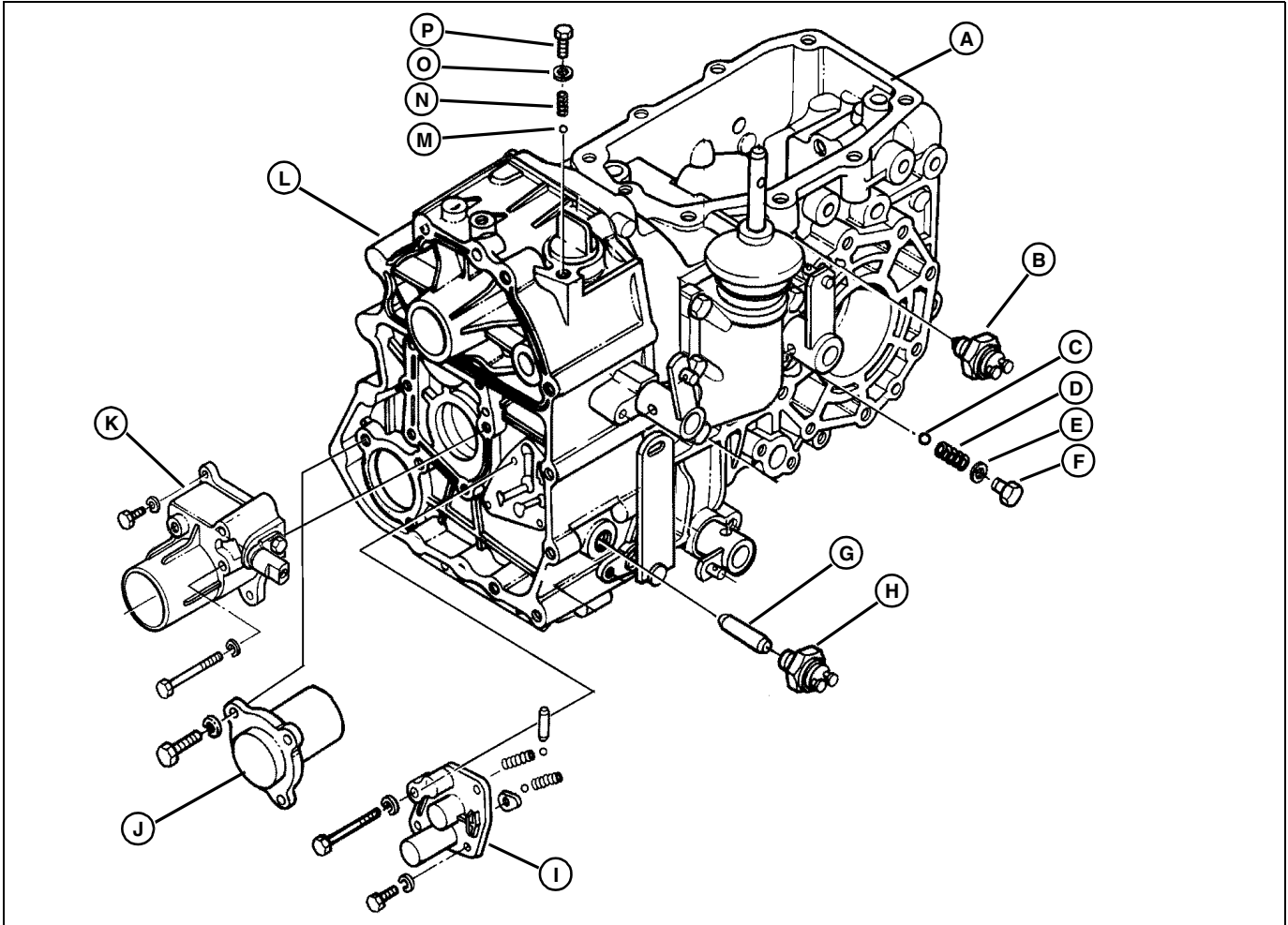


POWER TRAIN - GEAR REPAIR

Transmission Disassembly



M89403

- A - Differential Case
- B - S5 PTO Neutral Start Switch
- C - Detent Ball
- D - Spring
- E - Washer
- F - Cap Screw, M10 x 10
- G - Actuator Pin
- H - S4 Gear Range Start Switch
- I - Detent Cover
- J - PTO Brake Assembly
- K - MFWD Output Assembly
- L - Center Case
- M - Detent Ball
- N - Spring
- O - Washer
- P - Cap Screw, M10 x 25

Procedure:

1. Remove differential. See "Differential Removal and Installation" on page 460.

2. Remove rear PTO. See "Rear PTO Removal" on page 460.

3. Remove PTO brake assembly. See "PTO Brake Removal, Disassembly and Installation" on page 460.

4. Remove MFWD output shaft and housing. See "MFWD Output Shaft Removal and Installation" on page 462.

5. Remove detent cover. See "Detent Cover Removal and Installation" on page 464.

6. Remove shift housing. See "Shift Housing Removal and Installation" on page 465.

7. Remove cap screw (P) securing spring and detent ball in top of center case. Use magnetic probe to remove spring and ball.

8. Remove cap screw (F) securing spring and detent ball in port under left side final drive. Use magnetic probe to remove spring and ball.

9. Remove S4 gear range start switch (H) and actuator pin (G) from center case.

10. Remove S5 PTO neutral start switch (B) from differential case.

POWER TRAIN - GEAR REPAIR

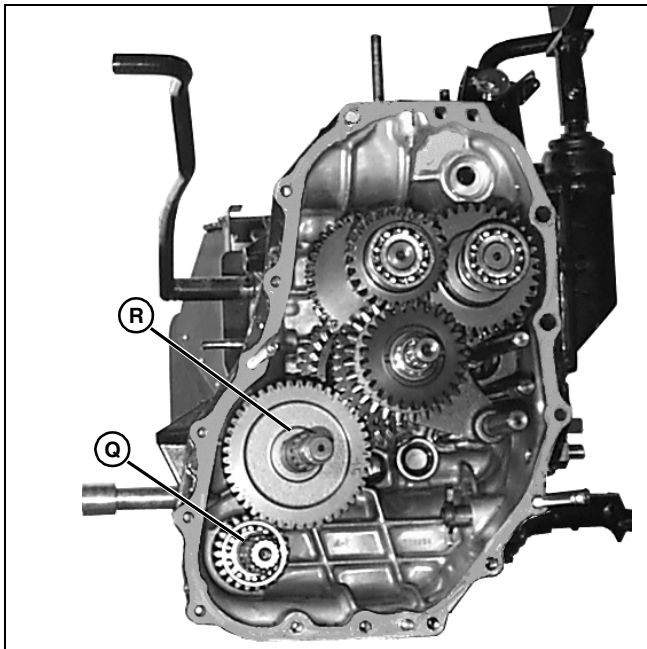
11. Remove cap screws securing center case (L) to differential housing (A).

12. Remove nuts inside shift housing opening.

IMPORTANT: Avoid damage! Center case and differential housing are cast aluminum and easily damaged. Use care when separating.

13. Place transmission in upright position and use small pry bar and/or screwdrivers to separate the center case from the differential housing.

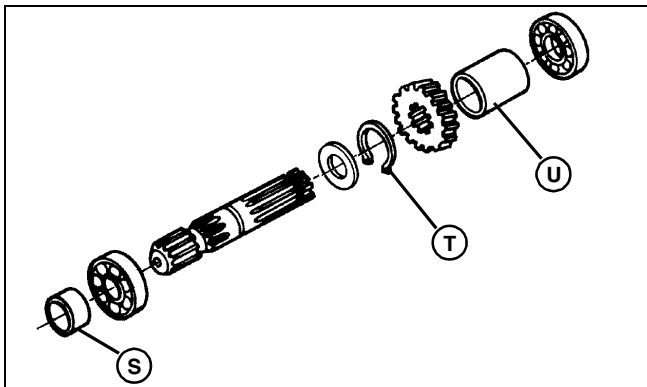
NOTE: Make sure that all loose internal components remain with differential housing. It may be necessary to use a long screw driver inserted between center case and differential housing and slightly prying component toward differential case. Remove center case.



M89292A

14. Remove mid PTO shaft assembly (Q).

15. Remove PTO brake shaft assembly (R).



M89286B

16. Remove seal collar (S) and bearing from front of mid-PTO output shaft.

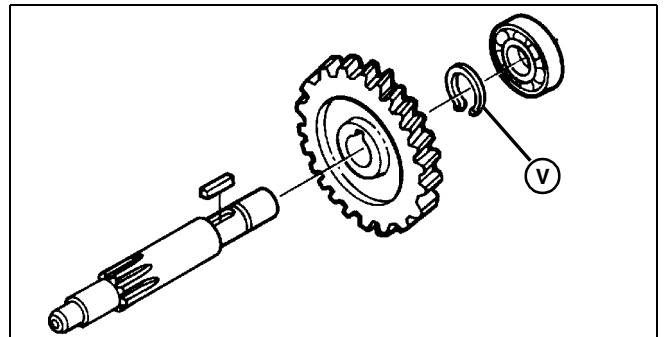
17. Remove external snap ring (T), 22T gear, spacer (U) and bearing on mid PTO shaft.

18. Inspect mid PTO output shaft for damaged splines. Replace as required.

IMPORTANT: Avoid damage! DO NOT spin bearing using compressed air. Damage to bearing balls, cage, and races could result.

19. Clean bearings in a suitable solvent. Dry with compressed air.

20. Inspect bearings for discolored, burned, balls and/or races. Check balls and races for spalling or cracking. Roll bearing by hand to check for rough turning or excessive looseness or play between balls and races. Replace bearings as required.



M89286C

21. Remove bearing from end of PTO brake shaft.

22. Remove snap ring (V) retaining 45T gear on PTO brake shaft.

23. Remove key from PTO brake shaft.

24. Inspect components for wear or damage. Replace as required.

IMPORTANT: Avoid damage! DO NOT spin bearing using compressed air. Damage to bearing balls, cage, and races could result.

25. Clean bearings in a suitable solvent. Dry with compressed air.

26. Inspect bearings for discolored, burned, balls and/or races. Check balls and races for spalling or cracking. Roll bearing by hand to check for rough turning or excessive looseness or play between balls and races. Replace bearings as required.

POWER TRAIN - GEAR REPAIR

Specifications:

Mid-PTO Output Shaft OD 24.99 mm (0.984 in.)

PTO Brake Shaft:

Small End OD 16.99 mm (0.669 in.)

Large End OD 16.99 mm (0.669 in.)

Bearing Surface 24.98 mm (0.983 in.)

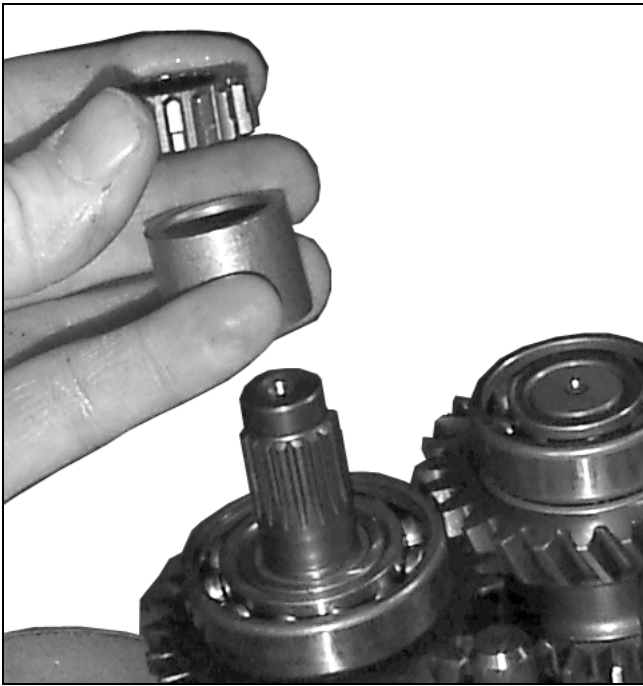
45T Gear ID 24.99 mm (0.984 in.)

Bearings:

ID 24.98 mm (0.983 in.)

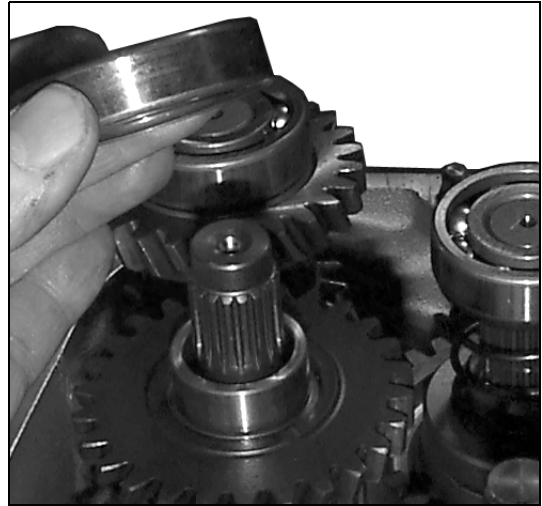
OD 46.99 mm (1.850 in.)

28. Lift transfer gear shaft (W) slightly and rock back out of the way. DO NOT attempt to remove transfer gear shaft from differential housing at this time.



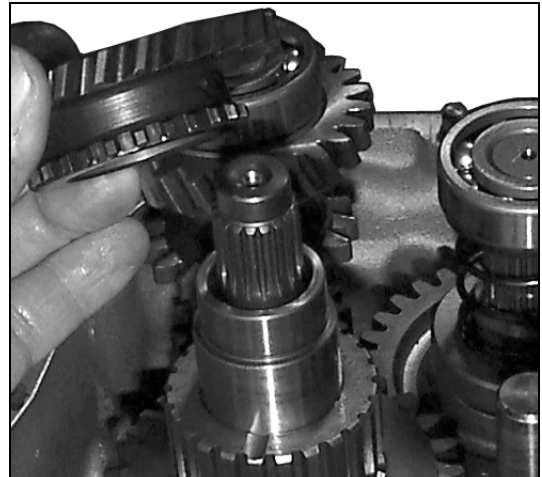
M89293

27. Remove 16T gear and spacer from end of pinion shaft.



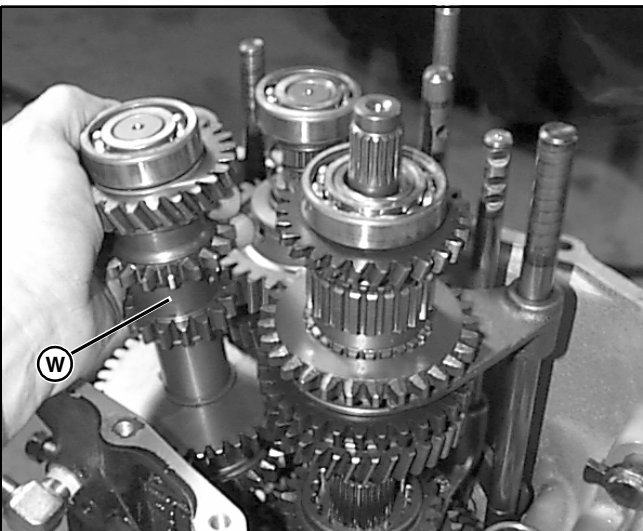
M89296

29. Using a pair of small pry bars on opposite sides of the bearing, remove bearing from the end of the gear tube.



M89297

30. Remove 26T gear from end of gear tube.



M89294



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If the above button click is invalid.

Please download this document

first, and then click the above link

to download the complete manual.

Thank you so much for reading