

Rolls Royce Silver Spur 1980-1992 Workshop Manual

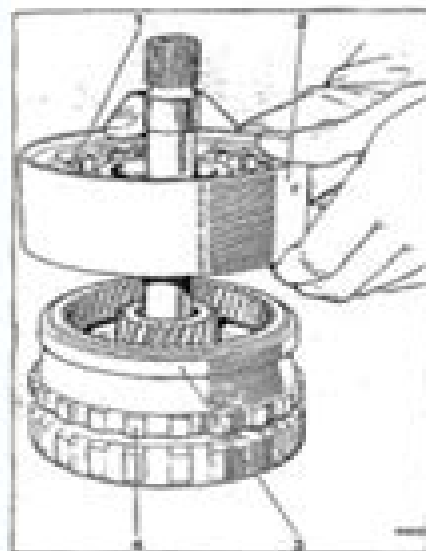


Fig. T15B-3 Removing the reaction center assembly

- 1 Roller clutch assembly
- 2 Reaction center
- 3 Gear ring
- 4 Output center



Fig. T15B-4 Center support assembly

- 1 Oil seal ring
- 2 Gear ring
- 3 Intermediate clutch pinion
- 4 Intermediate clutch pinion
- 5 Intermediate clutch pinion
- 6 Intermediate clutch pinion
- 7 Intermediate clutch pinion
- 8 Intermediate clutch pinion
- 9 Intermediate clutch pinion
- 10 Support in low speed
- 11 Thrust washer
- 12 Roller clutch assembly

Center support and intermediate clutch pinion - To dismantle

1. Remove and discard the four oil seal rings from the center support (see fig. T15B-4).
2. Remove the snap ring (see fig. T15B-4).
3. Remove the spring washer and the clutch release springs.
4. Remove the intermediate clutch pinion from the center support.
5. Remove and discard the inner and outer seals from the clutch pinion.

Note

Do not remove the three splines which secure the roller clutch inner race to the center support.

Center support and intermediate clutch pinion - To inspect

1. Wash all parts in clean paraffin, then dry with compressed air.
2. Examine the roller clutch inner race for scratches and indentations. Ensure that the lubrication hole is clear.
3. Examine the bush for scoring or wear.

Note

Ensure that the rear spiral of grooves (looking from front of the center support) is in a clockwise direction (see fig. T15B-5).

If replacement is necessary proceed:

- a. With the aid of the bearing removal tool (J-21485-B and J-8050), drive the roller clutch inner race from the center support.
- b. Press the front of the roller clutch inner race onto the elongated slot in the bush (see fig. T15B-6) or the oil delivery sleeve (groove) of the intermediate pinion.
- c. Drive the bush from the front, until the bush is flush to the front of the center support.
- d. Ensure the roller clutch inner race and the bush are clean and are not damaged.

Check the roller clutch inner race and the bush for scoring or wear and are not interconnected.

Check the roller clutch inner race in the center support for scoring or wear.

Inspect the pinion seal groove for damage and ensure that they are clean.

Examine the pinion for cracks or porosity.

Examine the springs for collapsed coils or signs of distortion. Check the spring length against that of a new spring before deciding whether to renew the complete set of springs.

Center support and intermediate clutch pinion - To assemble

1. Lubricate a new inner seal and a new outer seal with clean transmission fluid. Lubricate the seal grooves in the intermediate clutch pinion and fit the seals with the lips facing away from the spring pockets.
2. Fit the intermediate clutch inner seal protector (J-21583) over the center support hub.
3. Fit the intermediate clutch pinion (see fig. T15B-7). Ensure that it seats fully in the center support.
4. Fit the spring guide and the three clutch release



Fig. T15-1 Gearshaft and valve mechanism

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Unveiling the Magic of Words: A Report on "**Rolls Royce 199silver Spur Service Manual**"

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