



Service Parts Instructions

Rebuild Instructions for the RT-160 Inter-Axle Differential (IAD) Using KIT 4746

Use KIT 4743 to correctly rebuild Meritor's RT-160 inter-axle differential (IAD). To order KIT 4746, call ArvinMeritor Commercial Aftermarket at 888-725-9355. For complete maintenance and service instructions on Meritor's RT-160 inter-axle differentials, refer to Maintenance Manual 5L. To order this publication, call ArvinMeritor's Customer Service Center at 800-535-5560.

Additional maintenance and service information for ArvinMeritor's commercial vehicle systems component lineup is also available at www.arvinmeritorinc.com. To access information, click on Products & Services/Tech Library Icon/HVS Publications. The screen will display an index of publications by type.

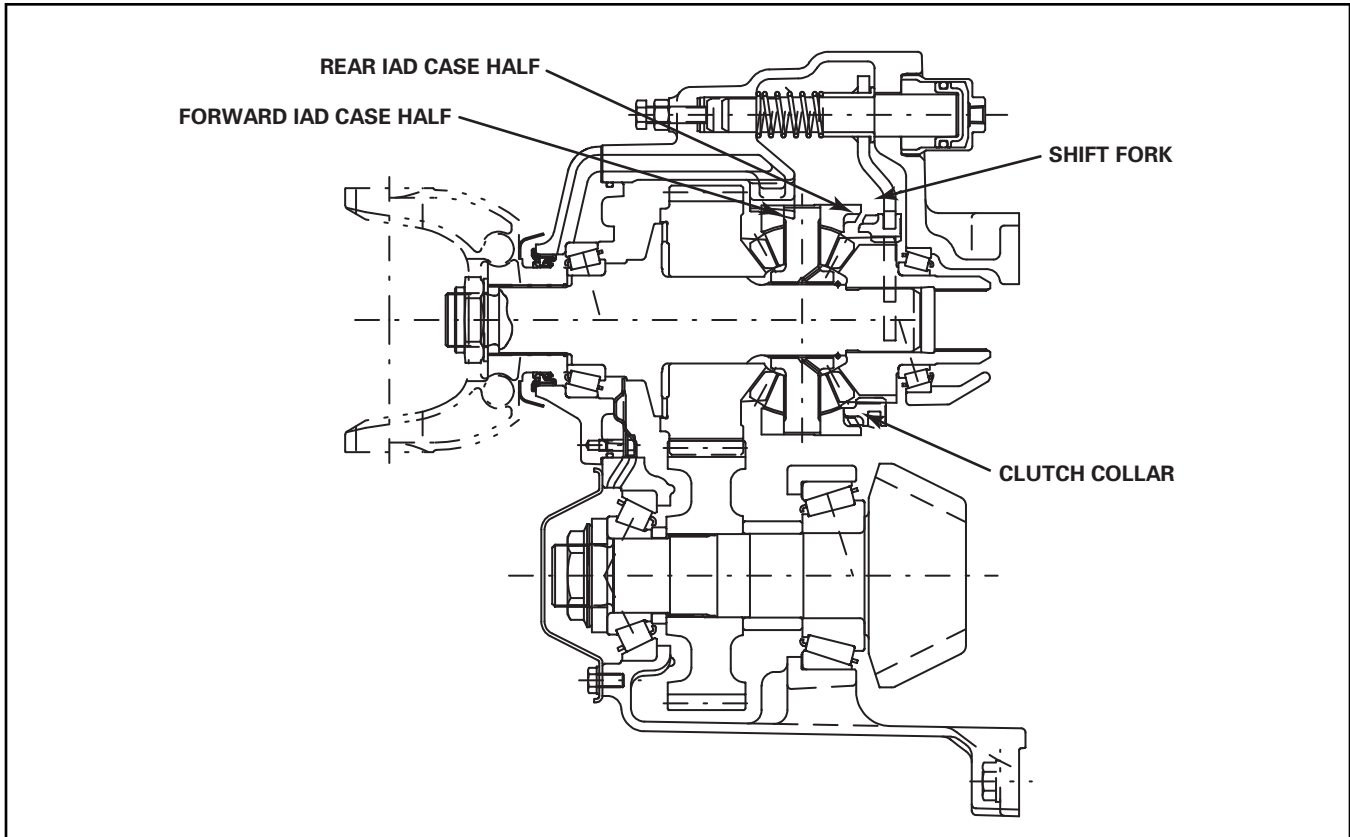


WARNING

To prevent serious eye injury, always wear safe eye protection when you perform vehicle maintenance or service.

Park the vehicle on a level surface. Block the wheels to prevent the vehicle from moving. Serious personal injury can result.

1. Park the vehicle on a level surface and block the wheels.
2. Disconnect the input U-joint.
3. Orient the clearance flats in the differential case assembly so that you can withdraw the assembly past the helical gear.
4. Remove the input shaft and power divider assembly.
5. Remove the snap ring that holds the differential case assembly to the input shaft. Slide the assembly off the shaft.
6. Remove the capscrews and washers that hold the differential case assembly together. Replace the forward and rear IAD case halves with the ones contained in the kit. Refer to the figure in this bulletin.
7. Unscrew the shift cylinder and remove the shift shaft.
8. Remove the rear side gear from the bearing cup and then remove the clutch collar, shift fork and spring from inside the carrier.
9. Install the new shift fork. Install the shift shaft, spring and shift cylinder.
10. Install the new clutch collar. Insert the rear side gear through the collar and into the bearing cup. Refer to the figure in this bulletin.
11. If necessary, install the new power divider sealing O-rings.
12. Install the input shaft and power divider assembly.
13. Connect the shift cylinder air line.
14. Connect the driveline and U-joint.
15. Remove the blocks from the vehicle's wheels.



KIT 4746 Components

Number of Items	Description	Part Number
1	Rear IAD Case Half	3235-A-2393
1	Forward IAD Case Half	3235-Q-1967
8	Capscrews	MS-210045-A1
8	Washers	1229-K-1597
2	O-Rings	5-X-1034
1	Clutch Collar	3107-P-1212
1	Shift Fork	A-3296-T-1086



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