Transfer Case -

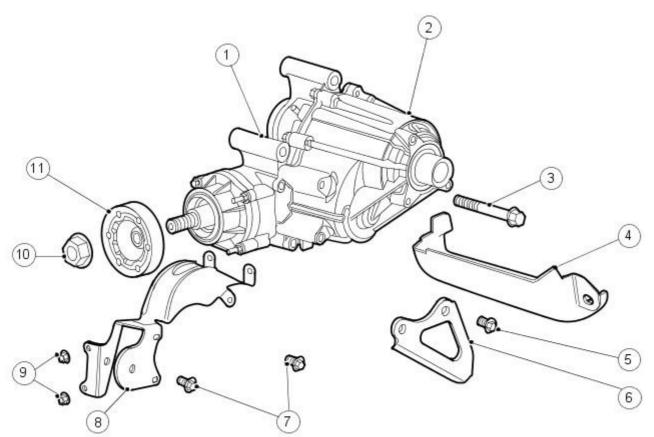
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Description			Liters	
Transfer case lubricant, drain and refill			0.50	
Torque specifications				
Description	Nm	Lb - ft	Lb-in	
M8 pinion housing studs	35 2	6	-	
M8 pinion housing bolts	35 2	6	-	
Engine anti-roll restrictor mounting bracket top retaining bolts	55 4	1	-	
Engine anti-roll restrictor mounting bracket side retaining bolts		6	-	
Engine anti-roll restrictor mounting bracket bottom retaining nuts	35 2	6	-	
Engine anti-roll restrictor mount retaining bolt	55 4	1	-	
Transfer case support bracket top retaining bolts	25 1	8	-	
Transfer case support bracket bottom retaining bolt		5	-	
Transfer case retaining bolts*		9	-	
Transfer case fill plug		5	-	
Exhaust front pipe retaining clamp		1	-	
Catalytic converter to catalytic converter mount bracket retaining bolts 25		8	-	
Shock absorber and spring assembly securing nuts 25			-	
			•	

Shock absorber and spring assembly securing nuts *On vehicles prior to VIN J25640, if you are re-using fixings, tighten to 90 Nm.

Transfer Case - Transfer Case

Description and Operation



E30054

Item	Part Number	Description	
1		Transfer case	
2	—	Transfer case fill plug	
3	—	Transfer case retaining bolt	
4	—	Transfer case air cooling duct	
5	—	Transfer case Y bracket retaining bolt	
6	—	Transfer case Y bracket	
7		Engine anti-roll restrictor mounting bracket retaining bolts	
8	—	Engine anti-roll restrictor mounting bracket	
9	—	Engine anti-roll restrictor mounting bracket retaining nuts	
10		Companion flange retaining nut	
11		Companion flange	

The transfer case system consists of a power transfer unit, rear driveshaft, coupling device and rear axle. The power transfer unit is a gearbox that attaches to the transaxle. The right hand halfshaft engages to the transfer case link shaft which engages to the differential side gears as in a normal 4x2 application. The transfer case provides power to the driveshaft through a helical gear spline coupled to the transaxle differential case, a helical gear drop (idler gear) and hypoid/helical ring gear assembly and pinion set. Repair of the transfer case is limited to seals and gaskets. If any of the geared components, tappered roller bearings, case cover or internal shafts fail, a new transfer case must be installed. The transfer case is sealed from the transaxle and has its own sump. The transfer case uses SAE 75W140 synthetic gear lubricant. The fill plug is located on the top of the transfer case, under the engine anti roll restrictor mounting bracket.

Transfer Case - Transfer Case Draining and Filling General Procedures

Spe	ecial Tool(s)
1000 - D. C.	Flange holding tool
205-053	205-053
and the second second	
E54574	
204-268A	Flange remover/installer
	204-068A
E107035	
\bigcirc	Flange remover/installer boss
204-266	204-266
1	Flange remover/installer
204-295 E107034	204-295
	Seal extractor
308-375	308-375
E55428	
1	Slide hammer
	100-012
100012	
100012	Slide hammer adapter
A	100-012-01
100-012-01	

1. WARNING: Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

Raise and support the vehicle.

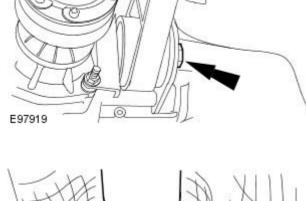
 $\ensuremath{\textbf{2}}.$ NOTE: Mark the position of the driveshaft in relation to the drive pinion flange.

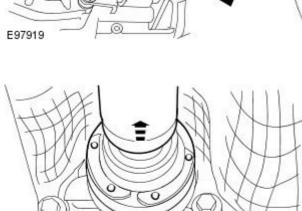
Remove two opposing driveshaft universal joint retaining bolts.

3. Loosen the remaining driveshaft universal joint retaining bolts.

- - 4. Detach the engine roll restrictor.
 - Remove the engine roll restrictor retaining bolt.

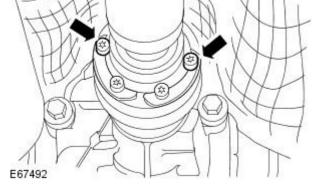
5. Detach the driveshaft from drive pinion flange.



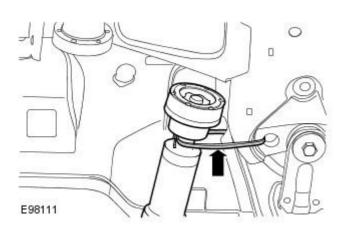








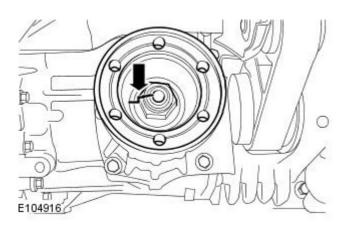
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- **6.** Using suitable tie straps, secure the outer casing of the driveshaft universal joint.



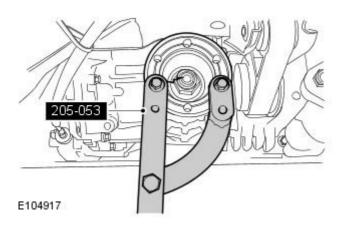
7. CAUTION: Make sure that the driveshaft does not hang on the center universal joint. Failure to follow this instruction may result in damage to the driveshaft.

Using suitable tie straps, secure the driveshaft to the subframe.

8. Mark the position of the retaining nut in relation to the companion flange and the companion flange in relation to the output shaft.



9. Install the special tool to the companion flange.



10. NOTE: Make a note of the complete number of turns required to remove the companion flange retaining nut.

• NOTE: Make a note of the number of degrees past the last complete rotation required to remove the companion flange retaining nut.

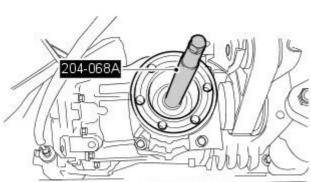
Remove the companion flange retaining nut.

11. Install the special tool to the output shaft.

- - 12. Install special tool 204-266 to special tool 204-068A.

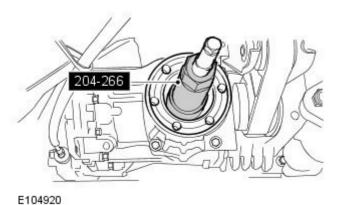
- 13. Install the special tool to the companion flange.
 - Install the six retaining bolts.
- 204-295

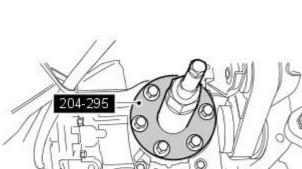




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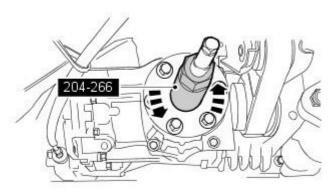
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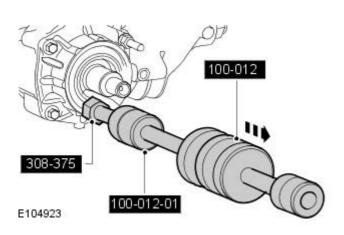


14. Remove the companion flange.

• Rotate the special tool counter-clockwise.



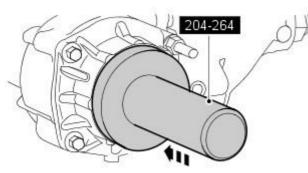
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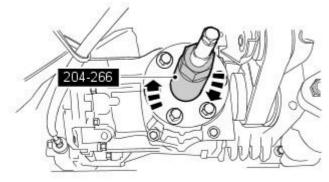
15. Using the special tools remove the pinion oil seal.

16. NOTE: Make sure the vehicle is completely level when draining the transfer case.

Allow the oil to fully drain into a suitable container. **17.** Using the special tool 204-264 fully seat the new oil seal.



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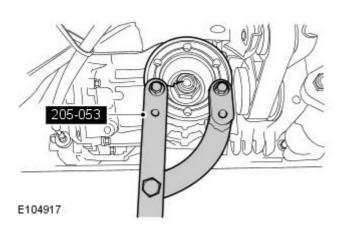
18. Install the companion flange to the output shaft.

- Lubricate the companion flange splines with SAE 75W140 lubricant.
- Install the companion flange making sure that the flange and output shaft marks are aligned.
- Install special tool 204-295 to the companion flange.
- Install special tool 204-266.
- Using the special tools install the companion flange to the output shaft by 10mm.

19. Remove the special tools.

20. Using a suitable solvent/cleaner, remove all traces of oil from the transfer case rear output flange and exposed threads of the output shaft.

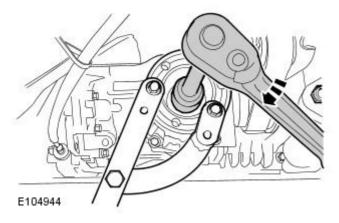
- **21.** Apply sealant (C2S 12099) to the area of transfer case rear output flange where securing nut seats.



22. Install the special tool to the companion flange.

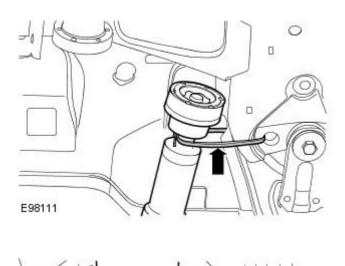
23. Apply sealant (C2S 12099) to the mating face of the transfer case rear output flange securing nut.





24. Install the companion flange securing nut.

- Start the nut at the noted number of degrees before the start of the first full rotation.
- Tighten to the noted full number of rotations.
- Make sure that the original marks between the companion flange, securing nut and output shaft are aligned.

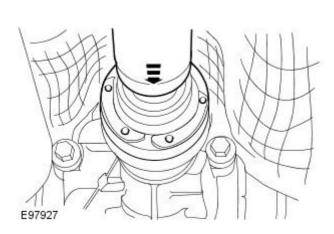


25. CAUTION: Make sure that the driveshaft does not hang on the center universal joint. Failure to follow this instruction may result in damage to the driveshaft.

Cut and remove the tie straps securing the outer casing of the driveshaft universal joint.

26. Cut and remove the tie straps securing the outer casing of the driveshaft universal joint.

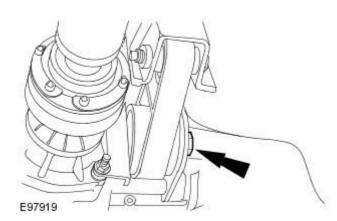
27. Connect the driveshaft to the transfer case.



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- 28. Attach the driveshaft universal joint.
 - 1. Attach the driveshaft universal joint.
 - 2. Install new driveshaft retaining bolts.
 - Tighten to 44 Nm.

- 29. Attach the engine roll restrictor.
 - Tighten to 80 Nm.





30. WARNING: Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

• NOTE: The lower lip of the sill must be 540mm from the floor.

Raise and support the left hand side of the vehicle.

- Remove the vehicle from the lift.
- Raise the vehicle using two jacks.
- **31.** Fill the transfer case with 400ml of oil.
 - Tighten the filler plug to 20Nm.

