

Driveline (05.00)

Contents

Driveshaft (05.01)	5-1-2
Description	1-2
Specifications	1-2
Maintenance	1-2
Torque Tube-Remove for Access/Refit.....	1-2
RH/LH Drive Shaft Assembly-Renew	1-4
Halfshafts (05.05)	5-2-1
Specifications	2-1

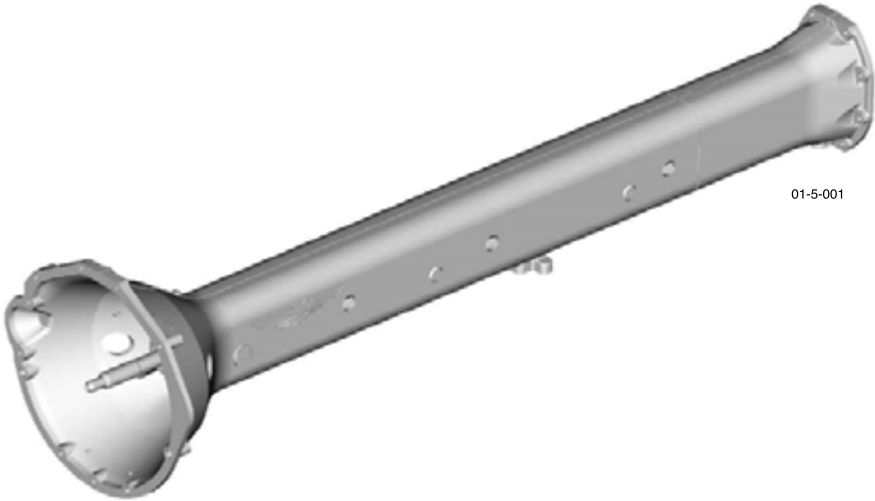
Driveline (05.00)

Driveshaft (05.01)

Description

The driveshaft consists of a torque tube assembly, incorporating a carbon fibre propshaft, transferring engine power to the gearbox.

The torque tube acts as a structural support between the engine and transmission through the powertrain maintaining NVH (Noise, Vibration & Harshness) and crash worthiness.



Specifications

Torque Figures			
Description		Nm.	lb. / ft.
Torque Tube (front)	M10	43-57 (Nominal 50.5 ±15%)	32-42.5
Torque Tube (rear)		43-57 (Nominal 50.5 ±15%)	32-42.5
Exhaust Manifold		18-22	13.5-16.5
Starter Motor		50	37

Maintenance

Torque Tube-Remove for Access/Refit

Repair Operation Time (ROT)	
Item	Code
Torque Tube-Remove/Refit	05.01.CA

Remove

- 9. Remove transaxle (see Workshop Manual 07.03.AA Transaxle Assembly - Manual - Remove for Access & Refit).
- 10. Remove LH exhaust manifold (see Workshop Manual 09.00.CB Manifold - Exhaust - LH - Renew).
- 11. Allow torque tube to lower until engine is balanced.

12. Remove large circlip using special tool (see Fig. 1).



Fig. 1

13. With assistance, remove propshaft from torque tube (see Fig. 2).



Fig. 2

14. Open clutch hydraulics bleed nipple and with suitable container below, press clutch pedal fully and retain pedal in that position. Tighten bleed nipple (see Fig. 3).



Fig. 3

15. Disconnect the clutch slave cylinder supply pipe at the flexible pipe union and cap pipes (see Fig. 4)



Fig. 4

16. With assistance, support torque tube and remove bolts (x16) that secure torque tube to engine (see Fig. 5).

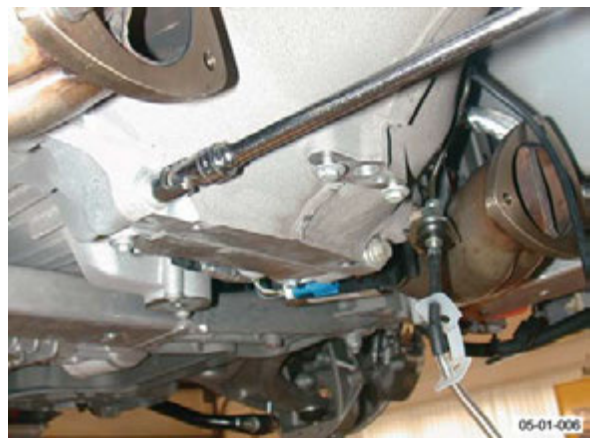


Fig. 5



17. Remove torque tube (see Fig. 6).



Fig. 6

- 4. Clean and install plates (x3), Allen bolts (x6), tighten bolts.
- 5. Install drive shaft nut. With assistance, tighten nut.
- 6. Install rear undertray (see Workshop Manual procedure 01.02.PB Undertray - Rear - Renew).
- 7. Install road wheel(s).
- 8. Lower vehicle on ramp.

Installation

- 1. Clean torque tube and mating face on engine.
- 2. With assistance, install and align torque tube to engine.
- 3. Install and torque tighten bolts (x16) using a cross-over sequence to ensure even face loading.
- 4. With assistance, install propshaft into torque tube and install circlip.
- 5. Remove pipe caps and reconnect clutch hydraulics (clean up fluid loss).
- 6. Bleed clutch hydraulics.
- 7. Install LH exhaust manifold (see Workshop Manual 09.00.CB Manifold - Exhaust - LH - Renew).
- 8. Install transaxle (see Workshop Manual 07.03.AA Transaxle Assembly - Manual - Remove for Access & Refit).

RH/LH Drive Shaft Assembly-Renew

Repair Operation Time (ROT)		
Item	Code	
Drive Shaft Assembly-Renew	RH	05.05.BB
Drive Shaft Assembly-Renew	LH	05.05.AB

Removal

- 1. Raise vehicle on ramp.
- 2. Remove road wheel(s).
- 3. Remove rear undertray (see Workshop Manual procedure 01.02.PB Undertray - Rear - Renew).
- 4. With assistance, remove drive shaft nut.
- 5. Remove and discard Allen bolts (x6), collect plates (x3), drive shaft to differential.
- 6. Release drive shaft from rear hub, remove drive shaft.

Installation

- 1. Clean drive shaft and mating faces on differential flange and rear hub.
- 2. Install drive shaft in rear hub, align to differential flange.
- 3. Apply thread lock to new Allen bolt threads.

Driveline (05.00)

Halfshafts (05.05)

Specifications

Torque Figures		
Description	Nm.	lb/ft
Halfshaft nut	300	221.5
Halfshaft to differential	70	52