

**Haynes**
shows you how

BMW 3-Series 320i & 320xi (12-14), 325i, 325xi, 330i & 330xi (06) & 328i & 328xi (07-14) Haynes Online Manual

2 Transfer case - removal and installation

Warning:

The engine and exhaust system should be allowed to cool thoroughly before beginning this procedure.

Note:

There are no user-serviceable components within the transfer case, but if there is a problem with the unit, the transfer case can be removed, then taken to a dealer or other qualified shop .

Removal

- 1 Raise the vehicle and support it securely on jackstands.
- 2 Remove the bolts and the splash shield under the engine (see [Chapter 2A](#)).
- 3 Models with x-Drive have an extra reinforcement plate at the bottom of the subframe. Remove the bolts and the reinforcement plate.
- 4 Remove the exhaust heat shield and the exhaust system (see [Chapter 4](#)).
- 5 Make paint marks on the front driveshaft and the transfer case flange for later assembly. Remove the front driveshaft from the front differential and the transfer case (see [Chapter 8](#)).
- 6 Make paint marks on the rear driveshaft and the transfer case flange for later assembly. Remove the rear driveshaft from the transfer case and the rear differential (see Chapter 8). For the rear driveshaft to clear the flange on the transfer case, remove the driveshaft center support bearing bracket and have an assistant lower the middle of the driveshaft while you pull the flex-disc from the flange on the transfer case. **Caution:** *To avoid distortion, keep the flex-disc flat while removing the mounting bolts.*
- 7 Use a transmission jack to support the transmission, using chains or clamps to secure it to the jack.
- 8 Disconnect the electrical connectors at the transfer case, and disconnect and set aside the vent hose.

9 With the weight of the transmission held by the jack, remove the bolts securing the transmission crossmember to the rubber mounts and to the chassis. Remove the crossmember.

10 Have an assistant support the transfer case while you remove the transfer case-to-transmission bolts. Rock the transfer case and remove it from the vehicle.

Installation

11 Installation is the reverse of removal, with the following precautions:

- A. Use new bolts where ZNS (external Torx) bolts were used.
- B. Inspect the dowel pins and coat them lightly with anti-seize compound before installation.
- C. If the transfer case input shaft utilized an O-ring, install a new one.
- D. Fill the transfer case with new lubricant and check it again on level ground after driving 1/8-mile.

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