



**Haynes**  
shows you how

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

## 3 Front hub carrier - removal and installation

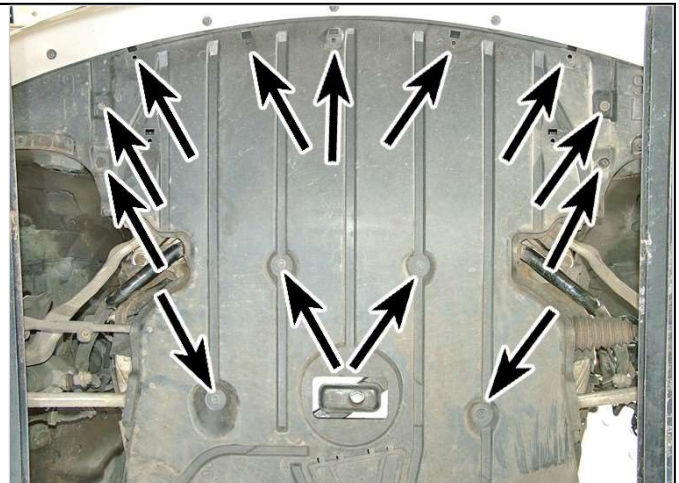
### Note:

New suspension strut-to-hub, tension strut balljoint and control arm balljoint nuts will be required on installation.

### Removal

1 Firmly apply the parking brake, then raise the front of the vehicle and support it securely on jackstands. Remove the relevant front wheel, then remove the fasteners and remove the engine under-shield (see illustration) .

#### 3.1 Remove the bolts and the engine under-shield

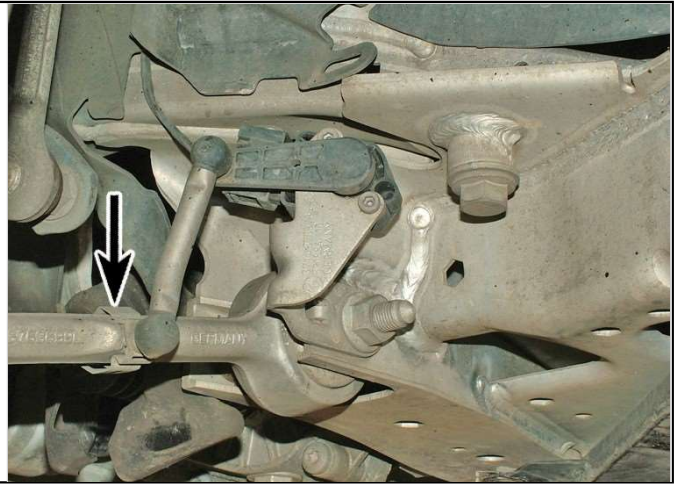


2 Remove the hub assembly (see [Section 2](#) ).

3 Remove the ABS wheel speed sensor (see [Chapter 9](#) ).

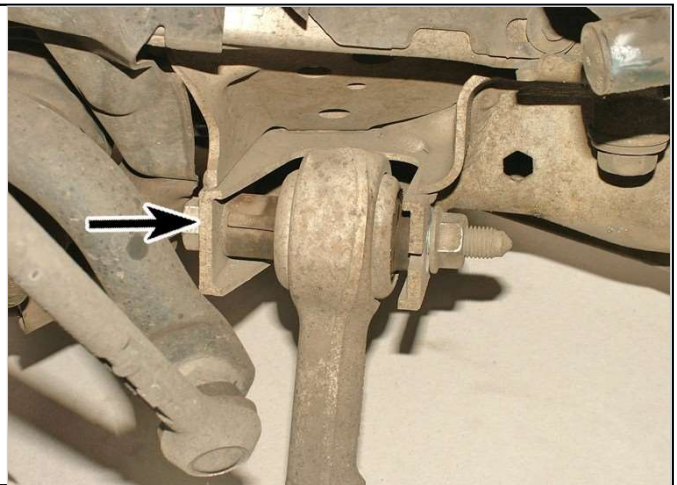
4 On models with Xenon headlights, release the clamp and detach the ride height sensor rod from the control arm (see illustration) .

### 3.4 Release the clamp and detach the sensor rod



5 Loosen the bolt securing the control arm to the front subframe (see illustration) . This will prevent damage to the mount bushings as the hub carrier is removed.

### 3.5 Control arm-to-subframe bolt

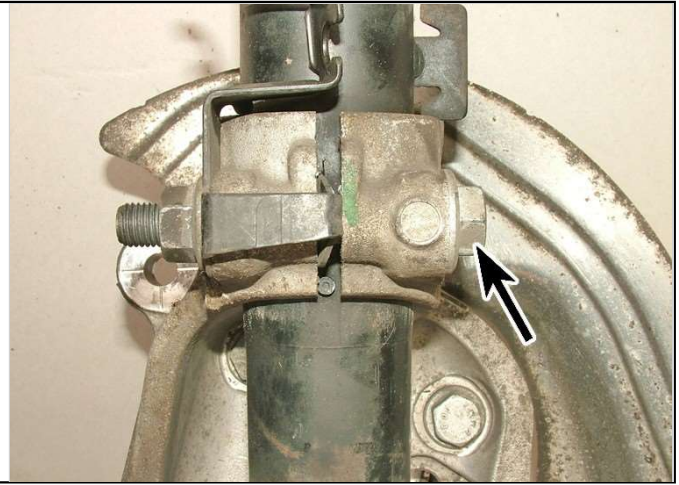


6 Detach the control arm and tension strut from the hub carrier (see [Section 5](#) ).

7 Remove the nut and detach the tie-rod end from the hub carrier (see [Section 25](#) ).

8 Loosen and remove the bolt securing the suspension strut to the hub carrier. **Note:** *The bolt is inserted from the front* . Slide the hub carrier down and off from the end of the strut. Discard the nut; a new one must be installed. To ease removal, insert a large screwdriver or Allen key into the slot on the back of the hub carrier and slightly spread the hub carrier clamp (see illustrations) . Take care to spread the carrier clamp only as much as absolutely necessary, as excessive force will cause damage.

**3.8a The hub carrier bolt is inserted from the front**



**3.8b Use an Allen key to slightly spread the hub carrier clamp**



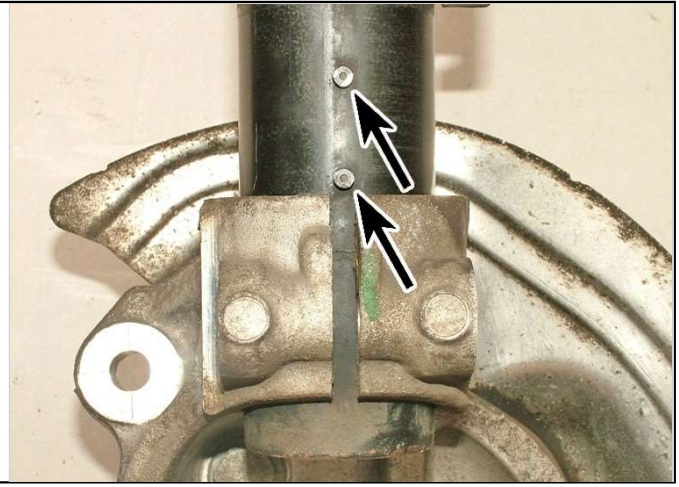
9 Examine the hub carrier for signs of wear or damage, and replace if necessary.

## Installation

10 Clean the threads of the strut-to-hub carrier bolt hole by running a tap of the correct thread size and pitch down it.

11 Position the hub carrier correctly with the suspension strut, ensuring that the locating pins on the strut slide into the slot in the hub carrier clamp (see illustration) . Slide the hub carrier up until it contacts the stop on the strut. Install the bolt from the front and tighten the new nut to the specified torque.

### 3.11 Ensure the locating pins slide into the slot



12 Engage the hub carrier with the control-arm balljoint stud, and install the new retaining nut. Tighten the nut to the specified torque.

13 Engage the tension strut balljoint with the hub carrier. Install the new nut and tighten it to the specified torque.

14 Engage the tie-rod balljoint in the hub carrier. Install a new retaining nut and tighten it to the specified torque.

15 Install the new hub assembly (see [Section 2](#)) where applicable.

16 On models where the hub was not disturbed, install the ABS wheel speed sensor and disc (see [Chapter 9](#)).

17 Install the wheel and the under-shield, then lower the vehicle to the ground and tighten the wheel bolts to the specified torque.