



**Haynes**  
shows you how

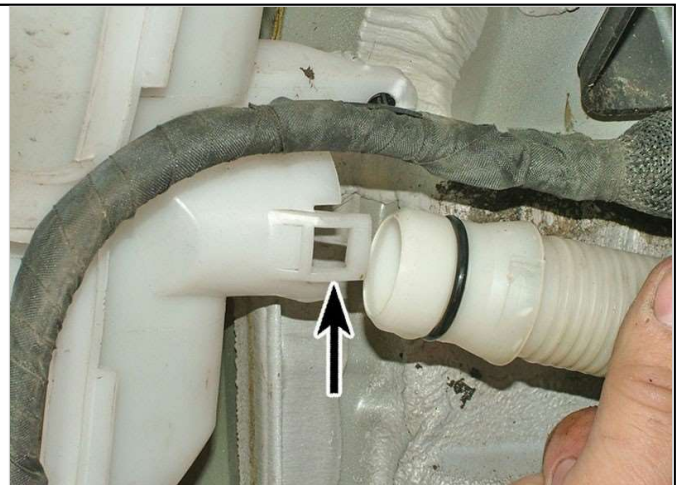
**BMW 3-Series 320i & 320xi (12-14), 325i, 325xi, 330i & 330xi (06) & 328i & 328xi (07-14) Haynes Online Manual**

## 18 Windshield/headlight washer system components - removal and installation

### Washer reservoir

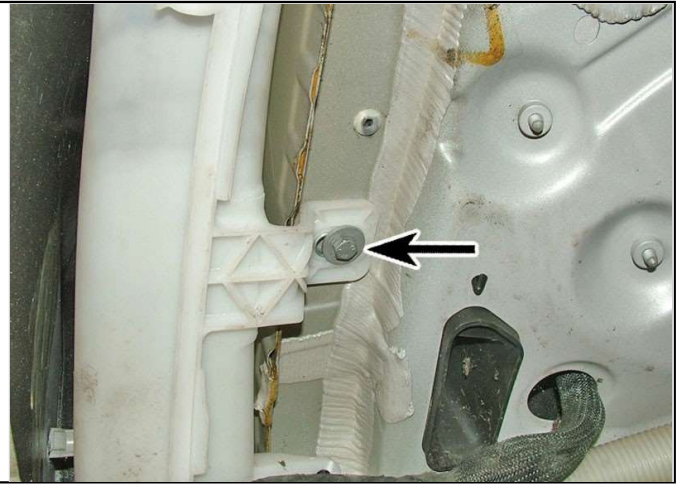
- 1 The reservoir is located behind the right front wheelwell. Remove the inner fender liner (see [Chapter 11](#)).
- 2 Unclip the wiring harness and hose from the reservoir clips, then disconnect the filler hose (see illustration) . Be prepared for fluid spillage.

#### 18.2 Release the clips and detach the filler hose



- 3 Remove the bolt and maneuver the reservoir from the fenderwell (see illustration) . Noting their installed positions, disconnect the electrical connectors and hoses from the reservoir components.

### 18.3 Washer fluid reservoir retaining bolt location



4 Installation is the reverse of removal. Make sure the locating lugs on the rear edge of the reservoir engage correctly with the corresponding slots in the inner fender. Refill the reservoir and check for leakage.

## Washer pumps

5 Remove the reservoir (see Steps 1 through 3). On Sports wagon models, two pumps are used - one for the windshield and one for the rear window.

6 Disconnect the wiring connector(s) and hose(s) from the washer pump(s). Carefully rotate the pump(s) clockwise, and pull them up from the reservoir. Inspect the pump sealing grommet(s) for signs of damage or deterioration and replace if necessary (see illustration) .

### 18.6 Rotate the pump clockwise and pull it up from the reservoir



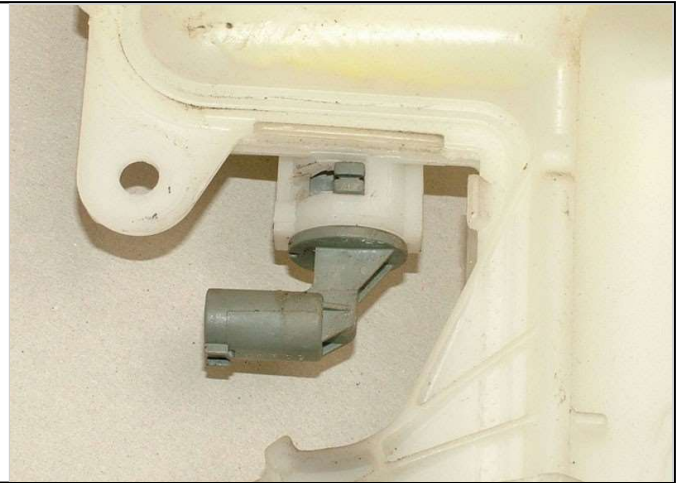
7 Installation is the reverse of removal, using a new sealing grommet if the original one shows signs of damage or deterioration. Make sure the locating lugs on the rear edge of the reservoir engage correctly with the corresponding slots in the inner fender. Refill the reservoir and check the pump grommet for leaks.

## Washer reservoir level switch

8 Remove the reservoir (see Steps 1 through 3).

9 Rotate the level switch counterclockwise and remove it from the reservoir **(see illustration)** .

**18.9 Rotate the level switch counterclockwise and pull it from the reservoir**



10 Installation is the reverse of removal, using a new sealing grommet if the original one shows signs of damage or deterioration. Make sure the locating lugs on the rear edge of the reservoir engage correctly with the corresponding slots in the inner fender. Refill the reservoir and check for leaks.

## Washer nozzles

### Windshield

11 Working at the rear of the engine compartment, remove the bolts and remove the cabin air filter cover. Slide the filter from the housing **(see illustration 17.5)** .

12 Reaching through the openings, disconnect the hoses and, where applicable, the heated nozzle electrical connectors **(see illustration 17.10b)** .

13 Press the washer nozzle rearward, pull up the front edge, and maneuver it from the panel.

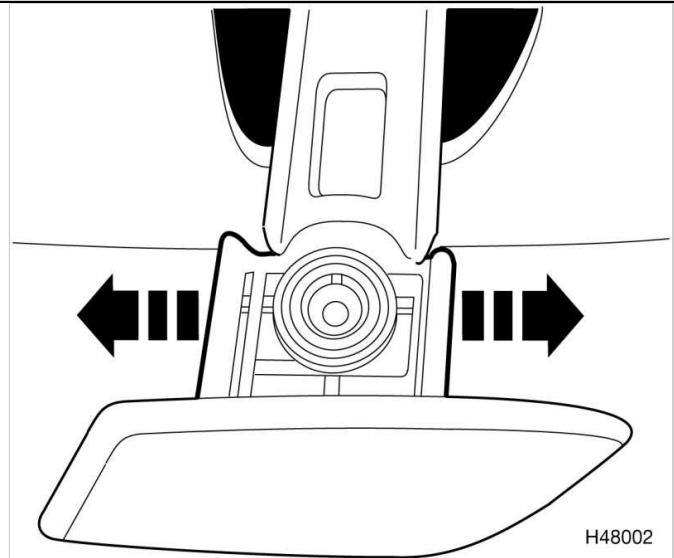
14 Installation is the reverse of removal.

### Headlight

15 Using a wooden or plastic lever, carefully pry out the washer nozzle cover from below the headlight, and pull it out to its stop.

16 Pull out the clips and detach the cover from the nozzle **(see illustration)** .

**18.16 Spread the clips and detach the cover**



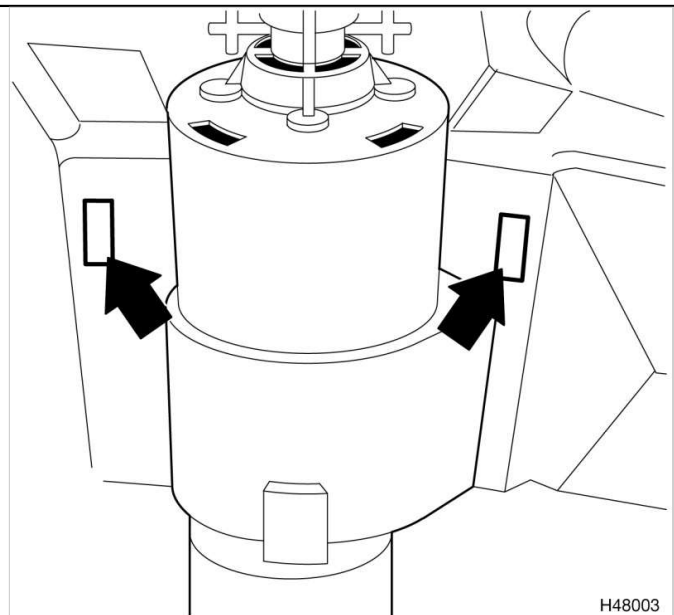
17 Remove the front bumper (see [Chapter 11](#) ).

18 Where applicable, disconnect the nozzle heater electrical connector.

19 Disconnect the hose from the nozzle. Be prepared for fluid spillage.

20 Release the mounting clips and maneuver the nozzle from the vehicle (see illustration) .

**18.20 Release the clips on the underside of the nozzle**



21 Installation is the reverse of removal.

## Rear window

22 Remove the high-mounted brake light (see [Section 8](#) ).

**23 Release the clip, disconnect the hose and pull the nozzle from the high-mounted brake light.**

**24 Installation is the reverse of removal. Aim the nozzle to an area 4 inches (100 mm) from the top, and 12.6 inches (320 mm) from the edge of the window.**

## **Wiper/washer system control module**

**25 The wiper/washer system is controlled by the central control module assembly, integral with the main fusebox (see [Section 3](#)).**