Wiper/Washer System

BMW 320i, 528e, 633CSi & 733i

DESCRIPTION & OPERATION

All models have a 2-speed wiper system with intermittent feature. The windshield wiper relay for 320i and 633CSi models is located near the left kick panel next to the turn signal flasher.

The wiper switch is on the right side of the steering column. As the lever is moved upward, the wipers run intermittently, at low speed and at high speed. Pulling the lever toward the steering wheel operates the washer pump.

TESTING

1) Unplug wiper motor connector at motor. Check for battery voltage at Violet/Black wire. Move wiper switch to lower speed position. Voltage should be present at Black/White wire.

2) If voltage is present and motor is properly grounded, wiper motor should operate. If motor fails to operate, it is defective. Check fuses and wiring if no voltage is present.

REMOVAL & INSTALLATION

WIPER MOTOR

Removal (320i & 528e)

Disconnect battery ground cable. On 528e, remove 6 screws and firewall tray. Snap off linkage rod. Mark shaft and crank arm for reassembly, then remove crank arm. Unscrew stop pad screw and remove 3 bolts. Unplug wiring and remove motor.

Installation

To install, reverse removal procedure. Turn in stop pad screw until motor is supported.

Removal (733i)

1) Remove left air grille. Loosen cowl cover screws and pull off rubber seal enough to lift cover. Pull off hose and tilt cover forward.

2) Remove motor cover and unplug wiring. Remove both wiper arms. Unscrew shaft nuts. Turn stop pad screw out. Disconnect linkage to right wiper. Loosen 2 screws at center of cowl and pull linkage apart.

3) Mark shaft and crank arm for reassembly. Remove motor crank arm. Remove 3 screws and wiper motor.

Installation

To install, reverse removal procedure, ensuring that linkage fits properly and stop pad is turned in to support motor.

NOTE: Procedures were not available for 633CSi models.

WIPER SWITCH

Removal (All Models)

Remove steering wheel. Remove lower column cover. Remove screws on right side of column and pull switch free. Cut off wiring clips and unplug wiring. Remove switch.

Installation

To install, reverse removal procedure.

Fig. 1: BMW 320i & 633CSi Wiring Diagram

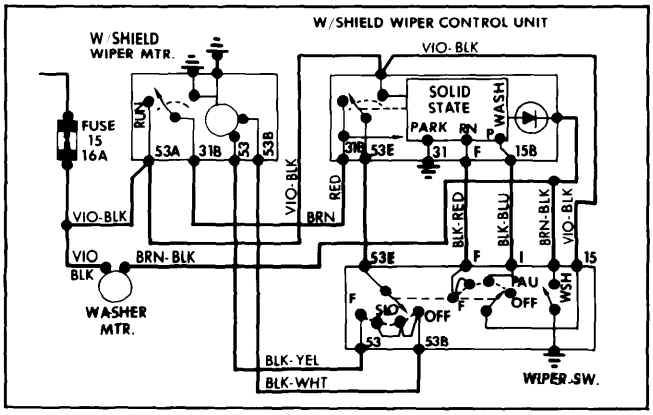


Fig. 2: BMW 528e Wiring Diagram

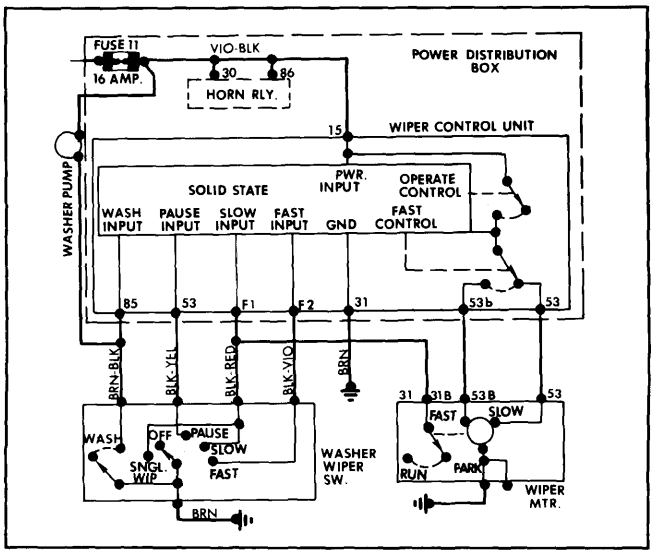
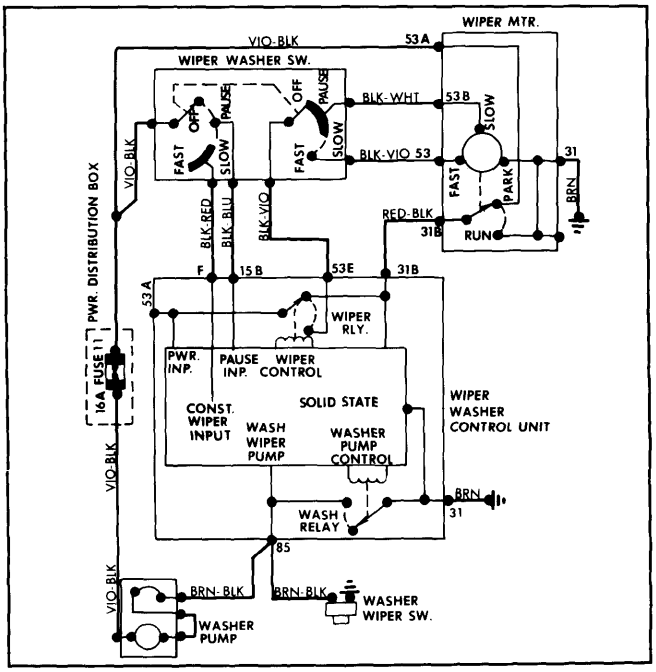


Fig. 3: BMW 733i Wiring Diagram



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