

HEATER SYSTEM

Article Text

1989 Volkswagen Golf

For Volkswagen Technical Site

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Monday, August 23, 1999 11:54PM

ARTICLE BEGINNING

1989 HEATER SYSTEMS

Volkswagen

Cabriolet, Fox, Golf, Golf GT, GTI, Jetta,
Jetta GLI, Vanagon

NOTE: Vanagon heater system information is not available from manufacturer. For wiring diagram information, see **WIRING DIAGRAMS** at end of this article.

DESCRIPTION

The heater is a water valve type that combines heating, defrosting and ventilation into one unit. Controls include fan control knob, air distribution, and temperature control levers. The blower fan provides 3 speeds on all models.

OPERATION

When air distribution lever (upper lever) is in the center stop position and lower temperature control lever is to the far left, no air enters vehicle. As air distribution lever is moved to the left, air is directed to floor vents. As distribution lever is moved to the right, air is directed to defroster vents.

As heater lever (lower lever) is moved to the right, heater turns on and heat output is increased. As the fan control knob is turned to the right, the fan turns on and can be switched across its 3 speeds.

TEMPERATURE CONTROL LEVER ADJ

Move temperature control lever to extreme left position. Place heater control valve lever in closed position. Secure cable with a clip.

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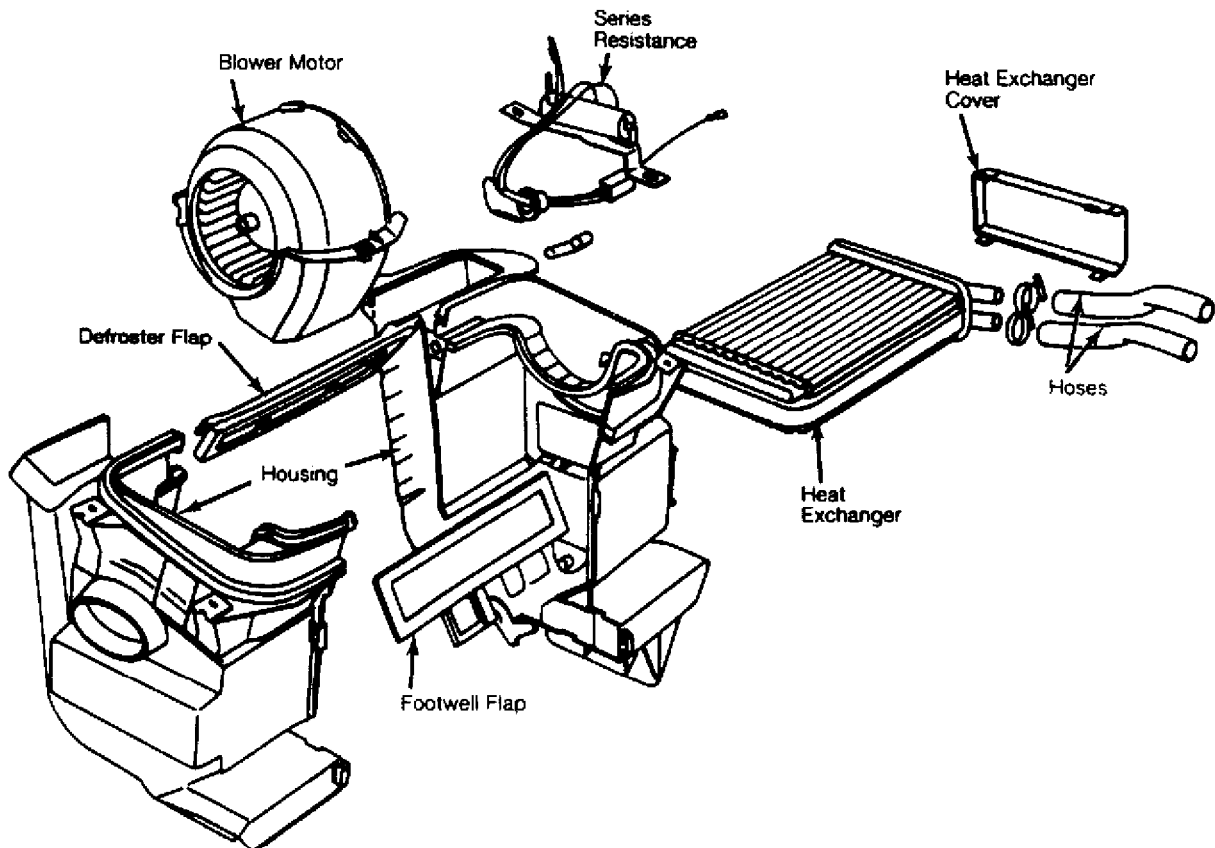


Fig. 1: Cabriolet & Fox Heater System Components
Courtesy of Volkswagen United States, Inc.

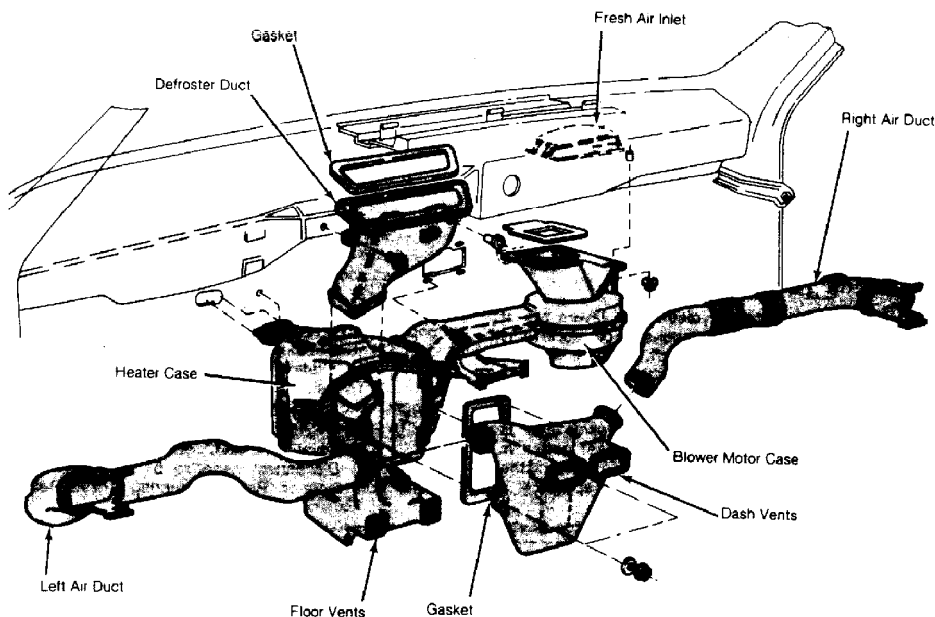


Fig. 2: Golf, Golf GT, GTI, Jetta & Jetta GLI Heater System
Components
Courtesy of Volkswagen United States, Inc.

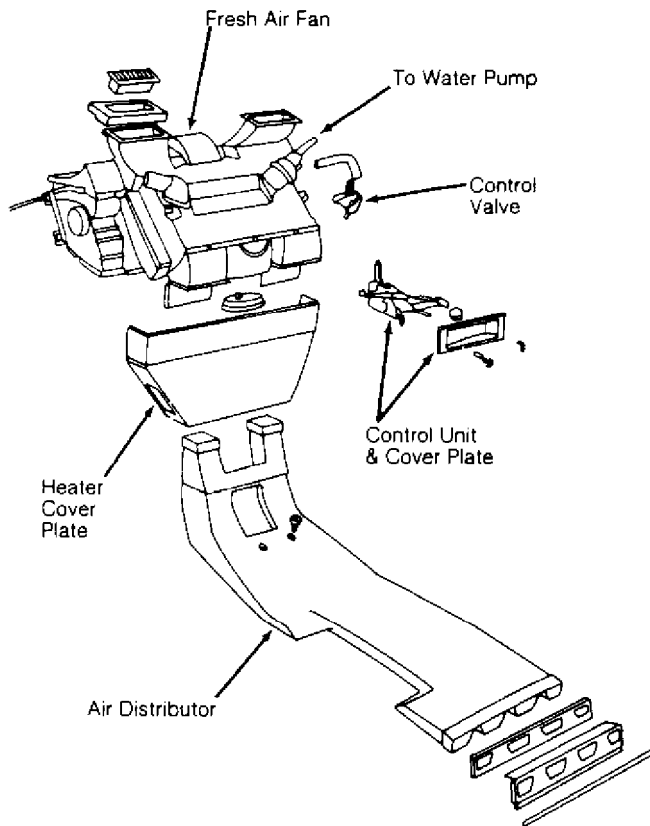


Fig. 3: Vanagon Heater System Components
Courtesy of Volkswagen United States, Inc.

HEATER ASSEMBLY R & I (CABRIOLET & FOX)

Removal

- 1) Drain coolant from radiator. Loosen clamps and remove heater core hoses. Disconnect battery ground cable. Pull heater control knobs off. Remove trim plate and underdash access panels.
- 2) Disconnect wiring from blower motor and remove cable from temperature control lever. Pry spring clamp off with screwdriver and separate heater assembly halves. Remove heater core and blower motor.

Installation

To install, insert blower motor and heater core into right half of housing. Position left half and install spring clips. To complete installation, reverse removal procedure.

HEATER ASSEMBLY R & I (GOLF, GTI, JETTA)

Removal (Golf, Golf GT, GTI, Jetta & Jetta GLI)

- 1) Disconnect negative battery cable. Drain coolant from

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radiator. Remove steering wheel. Remove lower left instrument panel retaining screws. Remove lower left instrument panel. Remove lower right instrument panel tray retaining screws.

2) Remove lower right instrument panel. Remove gearshift lever knob. Remove gearshift lever boot. Remove center console retaining screws. Slide center console rearward. Disconnect electrical connectors attached to center console. Remove center console.

3) Remove temperature control knobs. Remove trim plate. Remove radio. Remove switches from instrument panel. Remove instrument panel trim plate retaining screws. Remove instrument panel trim plate. Remove instrument cluster retaining screws. Remove instrument cluster.

4) Disconnect speedometer cable, electrical connectors and vacuum hoses from instrument cluster. Remove speaker grilles. Remove air outlet grilles from housings. Remove housing retaining screws. Remove air outlet housings. Remove instrument panel mounting nuts and screws.

5) Remove instrument panel. Disconnect heater hoses from heater core. Remove heater assembly mounting bolts and nuts. Remove all attaching ducts. Disconnect cables from heater assembly. Remove heater assembly.

Installation

Reverse removal procedure for installation. Fill radiator with coolant and start engine. Make sure heater control is in warm position to purge air from heater core.

HEATER CORE (FOX)

NOTE: Replacing heater core requires that fresh air/heater housing assembly be removed from car and disassembled.

Removal & Installation

1) Remove fresh air/heater housing assembly by first draining coolant. Remove instrument panel. See INSTRUMENT PANEL article. Disconnect left and right ducts from housing and remove two coolant hoses from right side of housing. Plug heater core and hose openings to prevent from spilling.

2) Disconnect harness connector from fresh air blower and remove mounting bolts and nuts that hold housing assembly to body.

3) To install, reverse removal procedure.

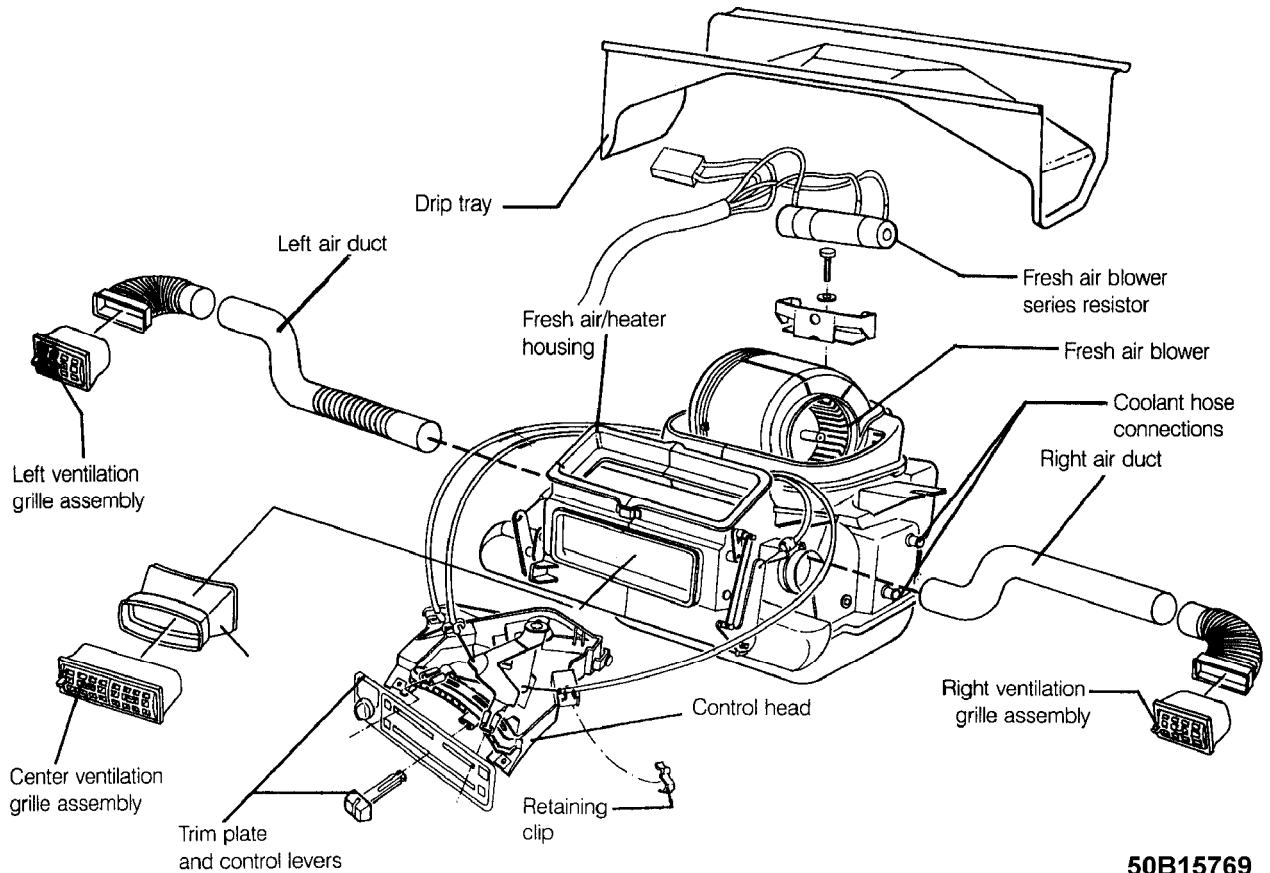


Fig. 4: Exploded View of Ventilation & Heating System

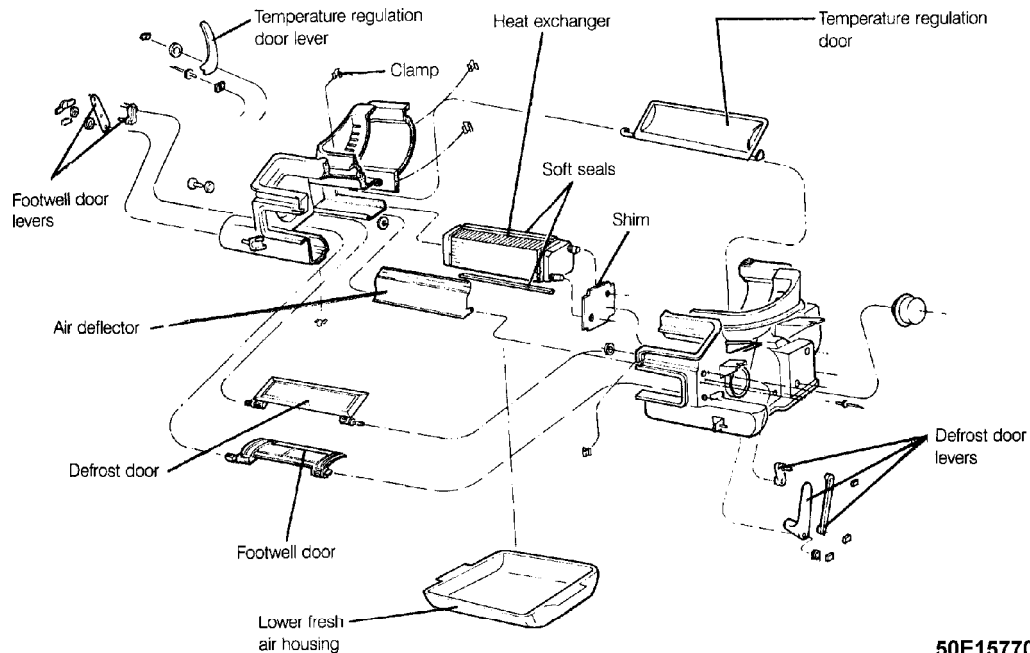


Fig. 5: Exploded View of Fresh Air/Heater Housing

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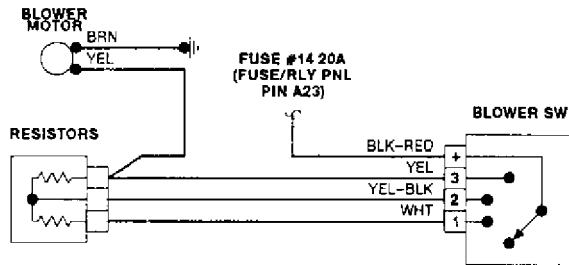


Fig. 6: Cabriolet Heater System Wiring Diagram

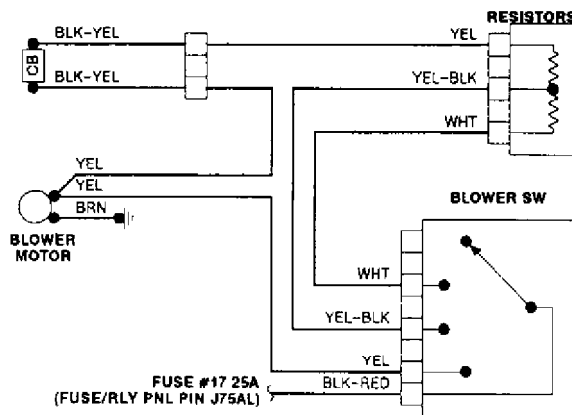


Fig. 7: Fox Heater System Wiring Diagram

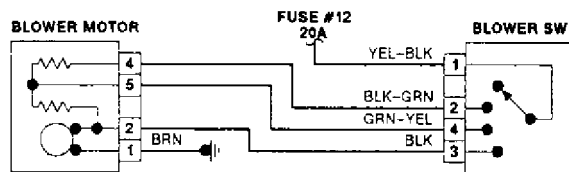


Fig. 8: Golf, Golf GT & GTI Heater System Wiring Diagram

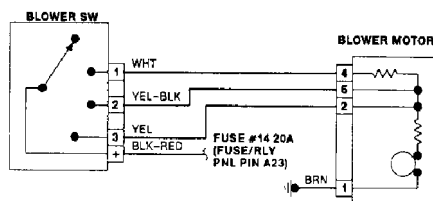


Fig. 9: Jetta & Jetta GLI Heater System Wiring Diagram

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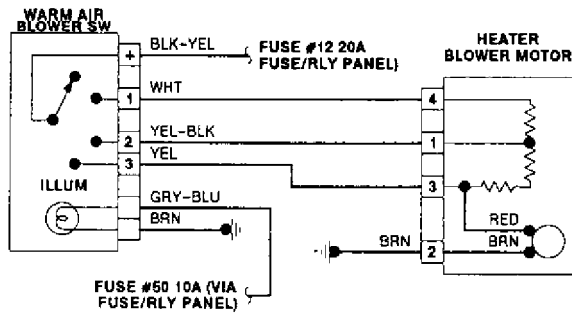


Fig. 10: Vanagon Fresh Air Blower Motor Wiring Diagram

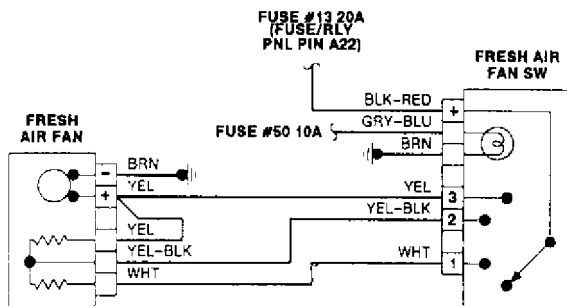


Fig. 11: Vanagon Warm Air Blower Motor Wiring Diagram

END OF ARTICLE