

INSTRUMENT PANEL

Article Text

1993 Volkswagen Corrado

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Wednesday, March 22, 2000 09:12PM

ARTICLE BEGINNING

1993 ACCESSORIES & EQUIPMENT

Volkswagen Instrument Panel

Corrado SLC

DESCRIPTION & OPERATION

Instrument cluster for most models includes speedometer, fuel gauge and temperature gauge. Optional instruments include clock, tachometer, voltmeter and oil temperature gauge. See Figs. 3.

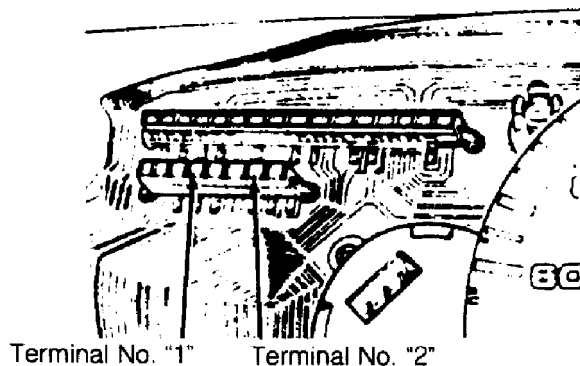
Printed circuit provides voltage to gauges. A voltage regulator attached to printed circuit controls voltage to fuel and temperature gauges. Most warning lights are a Light Emitting Diode (LED). To replace diode, pull from printed circuit socket.

TESTING

VOLTAGE REGULATOR TEST

1) If only one gauge is inoperative, regulator is not defective. Remove instrument cluster trim. Remove combination gauge. Connect positive (+) lead of voltmeter between combination gauge terminals No. 1 and 2. See Fig. 1. Turn ignition on. If battery voltage is present, go to next step. If battery voltage is not present, repair wiring harness or replace voltage regulator as necessary.

2) Turn ignition off. Install combination gauge. Remove speedometer. Connect positive (+) lead of voltmeter to terminal No 1 of voltage regulator. See Fig. 2. Connect voltmeter negative (-) lead to terminal No. 2. Turn ignition on. Meter reading should be 9.5-10.5 volts. If voltage is incorrect, replace printed circuit or voltage regulator.



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Fig. 1: Testing Combination Gauge (Corrado SLC)

Courtesy of Volkswagen United States, Inc.

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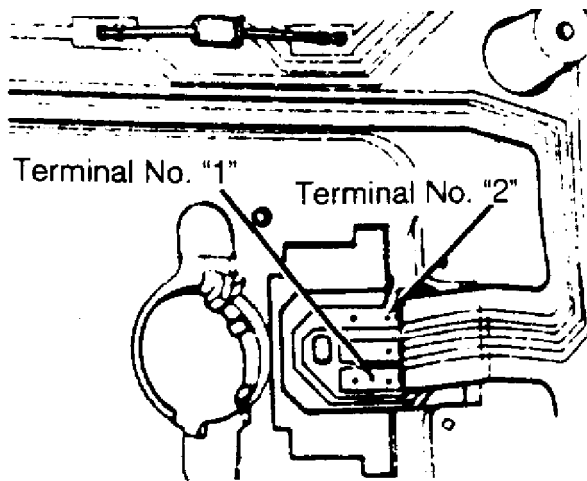
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Fig. 2: Testing Voltage Regulator (Corrado SLC)
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FUEL & TEMPERATURE GAUGE TEST

NOTE: Volkswagen Tester (VW 1301) is required for resistance tests. Tester settings are numerical. Settings do not indicate resistance in ohms. Manufacturer does not supply resistance values in ohms.

1) Disconnect wire from fuel tank or temperature sending unit. Connect VW Tester (VW 1301) between wire and ground. Turn ignition on and allow 2 minutes for gauge reading to stabilize. Use FUEL GAUGE TESTING or TEMPERATURE GAUGE TESTING table to compare gauge reading. Gauge should be within one pointer width of specification.

2) If gauge needle does not move, check continuity between sender wire and gauge. If needle moves but does not match specifications, replace gauge. If gauge works correctly with tester but not sending unit, replace sending unit.

FUEL GAUGE TESTING (1) TABLE

Application			Dial Setting		Indicator	
Corrado SLC			50		Full	
			160		Half	
			350		Empty	

(1) - Information for EuroVan not available from manufacturer.

TEMPERATURE GAUGE TESTING (1) TABLE

Application			Dial Setting		Indicator	
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Corrado SLC	80	Normal
		50	(2) Hot

(1) - Information for EuroVan not available from manufacturer.

(2) - With Red LED flashing.

AA

REMOVAL & INSTALLATION

CAUTION: DO NOT damage printed circuit when installing instruments.

INSTRUMENT CLUSTER

Removal & Installation

1) Obtain radio code. Disconnect negative battery cable.

Remove steering wheel only when removing complete instrument cluster housing. Remove trim screw caps and screws located on lower part of instrument cluster trim. Remove instrument cluster trim.

2) Remove trip odometer reset button. Remove trim cover retaining screws. Remove trim cover from instrument cluster. Remove instrument cluster housing retaining screws. Pull instrument cluster from dash panel. Disconnect multi-point connector, MFI vacuum hose (if equipped) and speedometer drive cable. Remove instrument cluster housing.

NOTE: All components in instrument cluster, except for printed circuit, can be removed from front, without removing complete instrument cluster housing.

3) Disconnect speedometer cable, remove mounting screws and pull speedometer from housing. Squeeze locating pins on other instruments and pull from housing. To install, reverse removal procedure.

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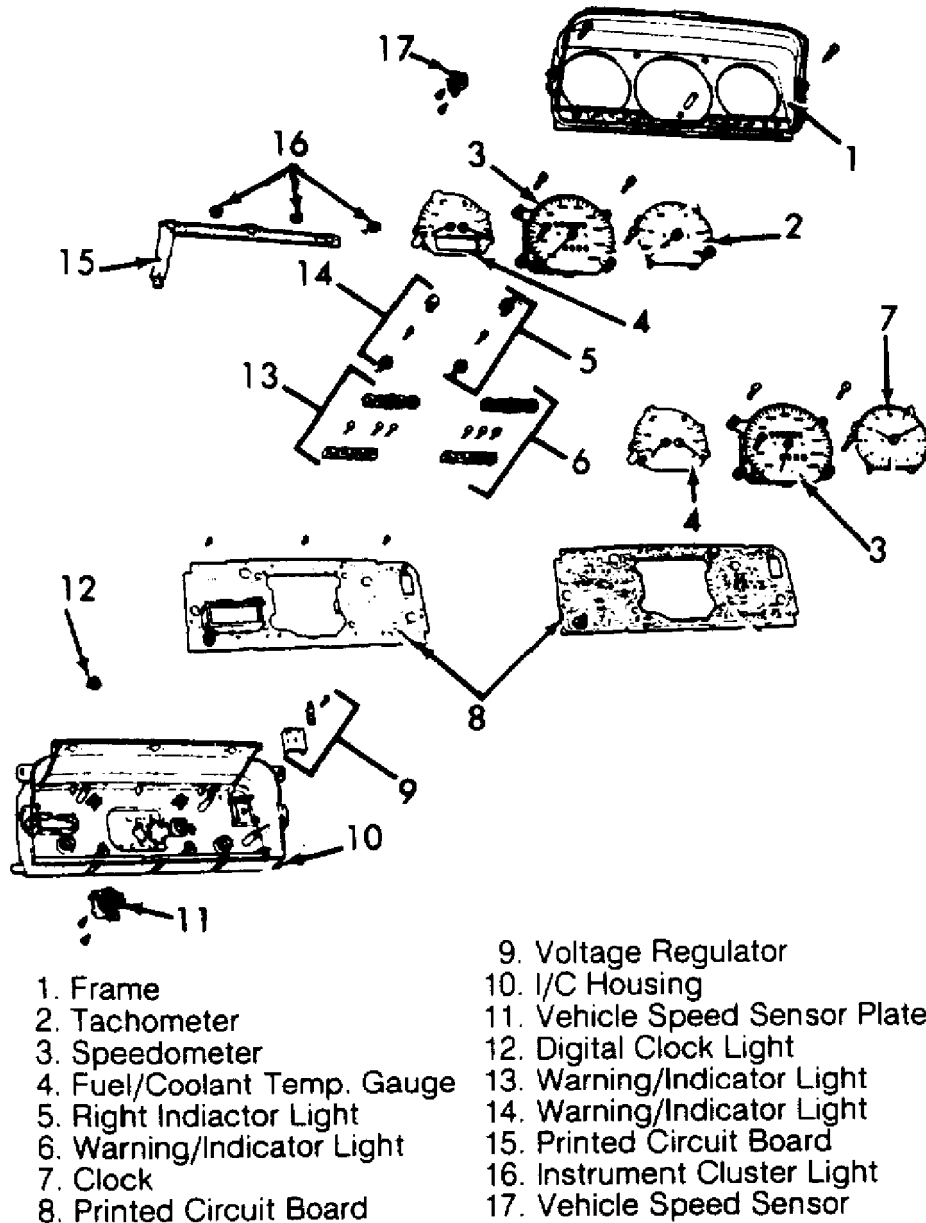
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Fig. 3: Exploded View Of Instrument Cluster
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PRINTED CIRCUIT CONNECTORS

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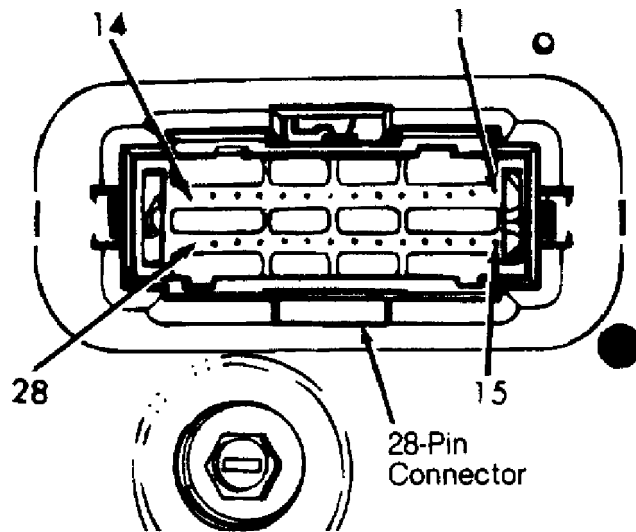
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1. Outside Temperature Sensor Ground (If Equipped)
2. To Coolant Low Level Sensor
3. Ground (Terminal No. 31)
4. Multifunction Indicator Memory Reset Switch (If Equipped)
5. Ground (Terminal No. 31)
6. Multifunction Indicator Memory Reset Switch (If Equipped)
7. Vehicle Speed Sensor Signal
8. From Oil Pressure Switch (High Side)
9. From Oil Pressure Switch (Low Side)
10. Tachometer Input Signal (Terminal 1/W)
11. Battery Voltage (Terminal No. 30)
12. Battery Voltage For Instrument Lighting (Terminal 58b)
13. Battery Voltage (Terminal No. 15)
14. (Not Used)
15. To MFI Mode Switch (If Equipped)
16. Alternator Warning Light (Terminal No. 61)
17. From Oil Temperature Sensor (If Equipped)
18. To Seat Belt Warning Light/Brake Warning Light (If Equipped)
19. Outside Temperature Sensor Signal (If Equipped)
20. MIL Or Glow Plug (Diesel Only)
21. Fuel Gauge
22. Left Turn Signal
23. Coolant Temperature Gauge
24. Right Turn Signal
25. High Beam Indicator
26. Fuel Consumption Indicator (If Equipped)
27. Signal From Speedometer Sensor (If Equipped)
28. A/T Selector Display (If Equipped)

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Fig. 4: Identifying Printed Circuit 28-Pin Connector
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WIRING DIAGRAMS

See appropriate chassis wiring diagram in WIRING DIAGRAMS.

END OF ARTICLE