

J - PIN VOLTAGE CHARTS

Article Text

1993 Volkswagen Corrado

For Volkswagen Technical Site: <http://vw.belcom.ru>

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Wednesday, March 22, 2000 09:14PM

ARTICLE BEGINNING

1993 ENGINE PERFORMANCE
Volkswagen Pin Voltage Charts

Corrado SLC

INTRODUCTION

Pin voltage charts are supplied to reduce diagnostic time. Checking pin voltages at ECU/ECM determines whether ECU/ECM is receiving and transmitting proper voltage signals. Charts may also help determine if ECU/ECM harness has an electrical short or open.

NOTE: Unless stated otherwise in testing procedures, perform all voltage tests using a Digital Volt-Ohmmeter (DVOM) with a minimum 10-megohm input impedance. Voltage readings may vary slightly due to battery condition or charging rate.

ECU PIN VOLTAGES (CORRADO SLC)

ECU PIN VOLTAGES (CORRADO SLC - MOTRONIC)

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Component/Circuit (VAG 1598 Terminal No.)	(1) Test Conditions & Additional Steps	Specified Value Or Test Result
----------------------------------------------	-------------------------------------------	-----------------------------------

ECU NOT CONNECTED TO VAG 1598/18

Voltage Supply -

Control Module (1 & 54) ... Ignition Off Battery Voltage

Voltage Supply -

Control Module

Relay (1 & 23) (2) Ignition Off ... Battery Voltage

Wiring To Fuel Pump

(6 & 55 - Jumper) Ignition On Fuel Pump Must
Operate

Heated Oxygen (O2)

Sensor Relay (7 & 28 -

Briefly Jumper) (2) Ignition On Relay Must
Operate (Click)

Malfunction Indicator

Light (5 & 10 - Jumper) ... Ignition On .. MIL Must Illuminate

Wiring For A/C (39 & 55) Ignition On,

A/C Switch On Battery Voltage

Wiring To A/C Compressor

(37 & 38 - Jumper) Ignition On A/C Magnetic
Clutch Operates

Fuel Injector No. 1

(23 & 24) Ignition Off 15-21.5 Ohms

Fuel Injector No. 2

(3 & 23) Ignition Off 15-21.5 Ohms

Fuel Injector No. 3

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(23 & 26)	Ignition Off	15-21.5 Ohms
Fuel Injector No. 4				
(4 & 24)	Ignition Off	15-21.5 Ohms
Fuel Injector No. 5				
(23 & 25)	.....	Ignition Off	.....	15-21.5 Ohms
Fuel Injector No. 6				
(2 & 23)	.....	Ignition Off	.....	15-21.5 Ohms
EVAP Solenoid Valve I				
(23 & 31)	.....	Ignition Off	.....	40-80 Ohms
Coolant Temp.				
Sensor (14 & 33)	.....	(3) Ignition Off	.....	(3)
Wiring To White DLC				
(4) (1 & 21)	.....	Ignition Off	....	1.5 Ohms Maximum
Wiring To White DLC				
(4) (2 & 43)	.....	Ignition Off	....	1.5 Ohms Maximum
Wiring To Oxygen (O2)				
Sensor (20 & 42)	.....	Disconnect Sensor		
		Connector & Jumper		
		Terminals No. 3 & 4	...	1.5 Ohms Max.
		Reconnect Sensor		
		Connector	.....	Infinity (Open)
Throttle Potentiometer				
(33 & 41)	.....	Ignition Off	.....	1750 Ohms
Throttle Potentiometer				
(33 & 40)	.....	Throttle Valve Closed	.....	1150 Ohms
Throttle Potentiometer				
(33 & 40)	.....	Throttle Valve Opened	.....	Resistance Must Increase
Throttle Potentiometer				
(40 & 41)	.....	Throttle Valve Closed	.....	2700 Ohms
Throttle Potentiometer				
(40 & 41)	.....	Throttle Valve Opened	.....	Resistance Must Decrease
Wiring To Hall Effect				
Sensor (7 & 44)	.....	Disconnect Sensor		
		Connector & Jumper		
		Terminals No. 1 & 2	...	1.5 Ohms Max.
Wiring To Hall Effect				
Sensor (7 & 23)	.....	Disconnect Sensor		
		Connector & Jumper		
		Terminals No. 1 & 3	...	1.5 Ohms Max.
Wiring To Ignition				
Coil Power Output				
Stage (8 & 55)	.....	Disconnect Output		
		Stage Connector & Jumper		
		Terminals No. 1 & 2	...	1.5 Ohms Max.
Wiring To Ignition				
Coil Power Output				
Stage (8 & 38)	.....	Disconnect Output		
		Stage Connector & Jumper		
		Terminals No. 2 & 3	...	1.5 Ohms Max.
Wiring To Knock Sensor I				

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(33 & 34) (5)	Disconnect Sensor		
		Connector	Infinity (Open)
Wiring To Knock Sensor I				
(33 & 34) (5)	.....	Disconnect Sensor		
		Connector	.....	Infinity (Open)
Wiring To Knock Sensor I				
(7 & 34) (5)	.....	Jumper Terminals		
		No. 1 & 2	.....	1.5 Ohms Max.
Intake Air Temperature				
Sensor (33 & 36)	.....	Jumper Terminals		
		No. 1 & 2	.....	1.5 Ohms Max.
Intake Air Control				
Valve (27 & 53)	.....	Jumper Terminals		
		No. 1 & 2	.....	1.5 Ohms Max.
Wiring To Knock Sensor II				
(7 & 33) (6)	.....	Disconnect Sensor		
		Connector	.....	Infinity (Open)
Wiring To Knock Sensor II				
(7 & 33) (6)	.....	Disconnect Sensor		
		Connector	.....	Infinity (Open)
Wiring To Knock Sensor II				
(56 & 57) (6)	.....	Jumper Terminals		
		No. 1 & 2	.....	1.5 Ohms Max.
Wiring To MAF Sensor				
(1 & 16)	.....	Disconnect Sensor		
		Connector & Jumper		
		Terminals No. 1 & 2	...	1.5 Ohms Max.
Wiring To MAF Sensor				
(1 & 17)	.....	Disconnect Sensor		
		Connector & Jumper		
		Terminals No. 1 & 3	...	1.5 Ohms Max.
Wiring To MAF Sensor				
(56 & 59)	.....	Disconnect Sensor		
		Connector & Jumper		
		Terminals No. 1 & 4	...	1.5 Ohms Max.
Wiring To MAF Sensor				
(1 & 23)	.....	Disconnect Sensor		
		Connector & Jumper		
		Terminals No. 1 & 5	...	1.5 Ohms Max.
Engine Speed Sensor				
(67 & 68) (7)	.....	Ignition Off	.....	500-700 Ohms
Engine Speed Sensor				
(56 & 67) (7)	.....	Ignition Off	.....	500-700 Ohms
Engine Speed Sensor				
(56 & 68) (7)	.....	Ignition Off	.....	500-700 Ohms
EGR Frequency Valve				
(9 & 56 - Jumper)	.....	Jumper Terminals No.		
		30 & 55 of Test Box	Valve Must
				Briefly Click
Wiring To EGR Frequency				
Valve (23 & 30)	Disconnect Valve		

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	Connector & Jumper	
	Terminals No 1 & 2. ...	1.5 Ohms Max.
EGR Temperature		
Sensor (15 & 33)	Disconnect Sensor	
	Connector & Jumper	
	Terminals No 1 & 2. ...	1.5 Ohms Max.

- (1) - TESTING CONDITIONS: Disconnect harness connector from ECM.
Connect Test Box (VAG 1598/18) to ECM harness connector, leaving the ECM disconnected.
 - (2) - With ignition off, jumper terminals No. 9 and No. 55 of the test box.
 - (3) - Refer to the I - SYS/COMP TESTS article.
 - (4) - These are terminal connectors at data link connector.
 - (5) - 3-pin connector is located at rear of engine mount.
 - (6) - 3-pin Black connector is located next to starter.
 - (7) - 3-pin White connector is located next to starter.
- AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

END OF ARTICLE