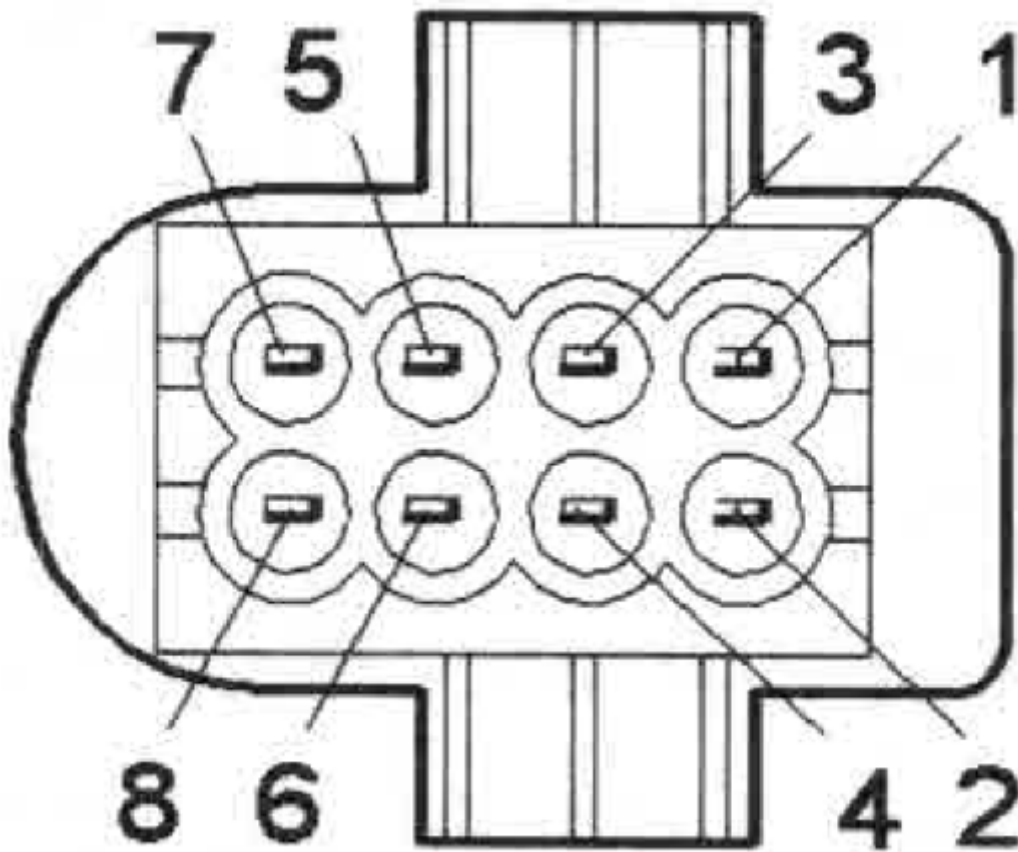


# INJECTION PUMP ELECTRICAL TESTING

## Fuel Pump Connector Terminals



## Fuel Pump Temperature Sensor

**Checking sensor resistance**

- Ignition off.
- Disconnect 8-pin fuel injection pump connector. Connect an ohmmeter between terminals 7 and 4 on the 8-pin fuel injection pump connector (sensor side).

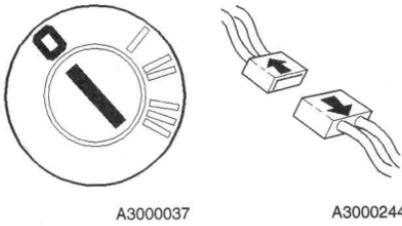
The ohmmeter should read 2.5—2.72 kΩ at +20°C, see diagram.

**Yes:**

- VC5

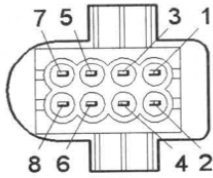
**No:**

- VC6



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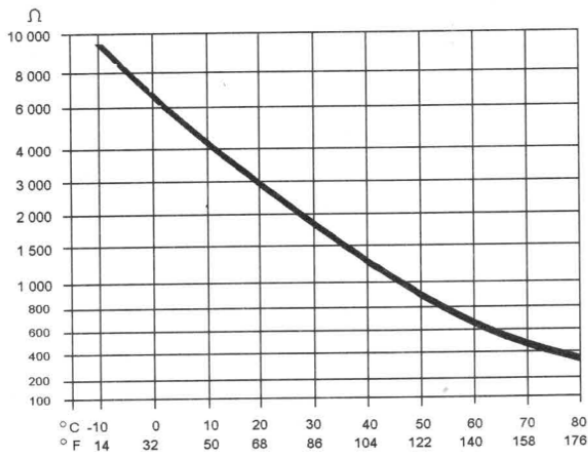
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# Fuel Pump Connector—Fuel Pump Side

Connector	Terminal	Checking	Unit	Set Value	Min	Max	Notes
8-pin Fuel injection pump	Fuel regulator	Fuel regulator position sensor	Ω		5	7	Ignition off. — Disc

8—pin Fuel injection pump	Fuel regulator	Position sensor	Ω	5	7	Ignition off.	— Disc
8—pin Fuel injection pump	Fuel regulator	Ω	Ω	0.5	2.5	Ignition off.	— Disc
8—pin Fuel injection pump	Fuel temperature sensor	Ω	Ω	2.5	2.75	Ignition off.	— Disc
8—pin Fuel injection pump	Fuel shut off solenoid	Ω	Ω	6.9	7.9	Resistance in windi	

## Fuel Pump Connector—ECU Side

Connector	Terminal	Checking	Unit	Set Value	Min	Max	Ignition	Main Rel	Notes
3—pin Fuel Injection	Signal	Signal Cable	Ω	< 2	2		ON	ON	With ignition on,
3—pin Fuel Injection	Signal	Signal Cable	Ω	>20	20		OFF	OFF	With ignition off,
3—pin Fuel Injection	Power	Power Cable	V	Batt Voltage	Batt Voltage	Batt Voltage	ON	ON	Ignition on— Wai
3—pin Fuel Injection	Main Power	Power Cable	Ω	0	0	0	N/A	N/A	Check circuit bet
8—pin Fuel Injection	Power	Power Cable	V	>1.5—<3.5	1.5	3.5	ON	ON	With the ignition

Connect	Terminal	Checking	Unit	Set Valu	Min	Max	Ignition	Main Rel	Notes
8—pin Fuel	2Injection	Signal Cable	V	>4—<6	4	6	ON	ON	With the ignition
8—pin Fuel	3Injection	Power Cable	V	>0.5—<4.5	0.5	4.5	ON	ON	With the ignition
8—pin Fuel	4Injection	Ground Lead	Ohms	0	0	0	OFF	OFF	With the ignition
8—pin Fuel	5Injection	Power Cable	V	Batt Voltage	Batt Voltage	Batt Voltage	ON	ON	Ignition on and n
8—pin Fuel	6Injection	Signal Cable	V	>1	>1		ON	ON	With the ignition
8—pin Fuel	7Injection	Signal Cable	V	5			ON	ON	With the ignition

## ECU Terminals

Terminal	Signal Type	Ignition on	Engine idling	Miscellaneous	Scrolling value VST
#A1	Power supply, fuel regulator position (Sensor in injection UACmp)	U=5V 4—0.5 V	U=2.5V UAC=0.6 V	U increases with	quantity of fuel injected
#A2	Signal ground, body stop pressure sensor	U=0V	U=0V		
#A3	Signal, intake air temperature (IMT) sensor (Sensor in mass air flow (MAF) sensor) (Measured relative to #A18)	U=5V +80C: U=2.5V +100C: U=1.0V	U=5V	U decreases with	increasing intake air tem
#A4	Signal , needle lift (Measured relative to #A18)	U=5V	U increases with air mass		
#A5					
#A6					
#A7					
#A8					
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Revision #35

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