

This Service Bulletin describes the procedure for correcting the circuits to enable programming of the VN Series Instrument clusters.

Date 9.98 Group **381** No. **11** Page 1(5)

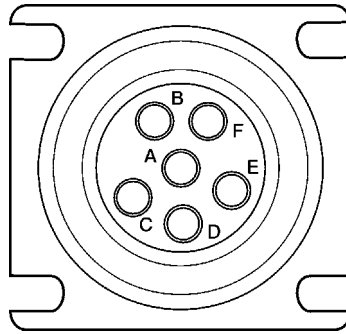
Instrumentation
VNL, VNM

Correcting the Diagnostic Connector Circuits

In vehicles built in January and February of 1998, the diagnostic connector wiring has been altered to comply with certain SAE standards.

When this is the case, it may be impossible to view or change the instrument cluster parameters. This includes the odometer setting and fuel consumption tracking.

If these problems arise, check the pins on the diagnostic connector.



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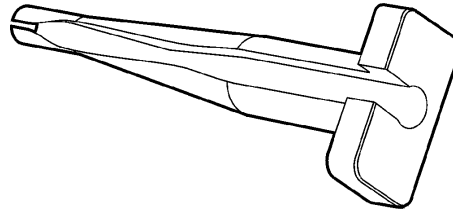
Cavity	Circuit	Description
A	400	J1587+
B	401	J1587-
C	402	12 Volt Supply
D	403	Programming Enable
E	OW	Ground
F		

Cavity D must contain the circuit to enable instrumentation programming (wire 403). If Cavity F contains circuit 403, it will be necessary to move circuit 403 to cavity D. (See "Diagnostic Connector Circuit Replacement" page 3.)

Tools

Deutsch Terminal Remover

The Deutsch Terminal Remover is necessary for removing the wiring terminals from the diagnostic connector. To order, call Kent-Moore at 1-800-328-6657.



W3003475

P/N J-38582-3
(Deutsch P/N DEU 114010) Deutsch Terminal Remover (yellow)

Service Procedures

Diagnostic Connector Circuit Replacement

For a description of conditions requiring this procedure, see "Correcting the Diagnostic Connector Circuits" page 1.



DANGER

PERSONAL INJURY HAZARD! Before working on a vehicle, set the parking brakes, place the transmission in neutral, and block the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.



CAUTION

Possible damage to electronic components. Turn the vehicle ignition switch OFF before disconnecting or connecting any electrical components. Failure to de-energize circuits may result in electronic equipment damage.

1

At the driver's side lower dash area, remove the left threshold plate screw covers. Remove the screws and the threshold plate.

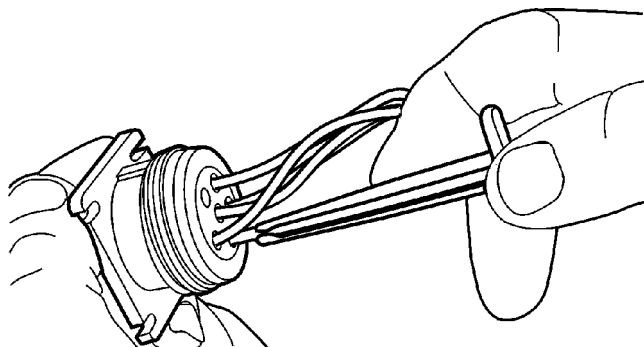
2

Pull back the floor mat and remove the plastic nut from the left kick panel. Remove the three upper mounting screws.

3

Disengage the HVAC duct and diagnostic connector from the panel. Remove the left kick panel.

4

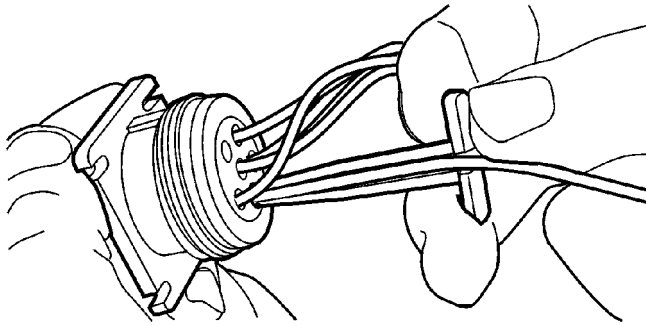


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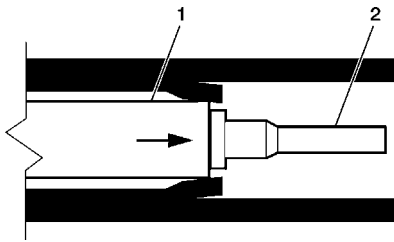
With the rear insert of the diagnostic connector toward you, snap the Terminal Removal tool, P/N J-38582-3, over the 403 wire in cavity F.

Terminal
Removal tool
J-38582-3

5



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Tool inserted to unlock contact.

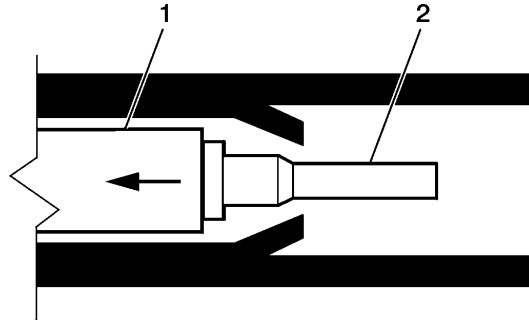
- 1 Contact Removal Tool
- 2 Contact

Slide the tool along the wire into the F cavity until it contacts the connector. Continue to push the tool into the cavity until it “ramps over” the connector and disengages the lock.

Note: To avoid damage to the tool, do not rotate the tool while it is fully engaged around the connector.

Note: Do not pull back on the wire while trying to unlock the connector, or the locking fingers will not release the contact.

6



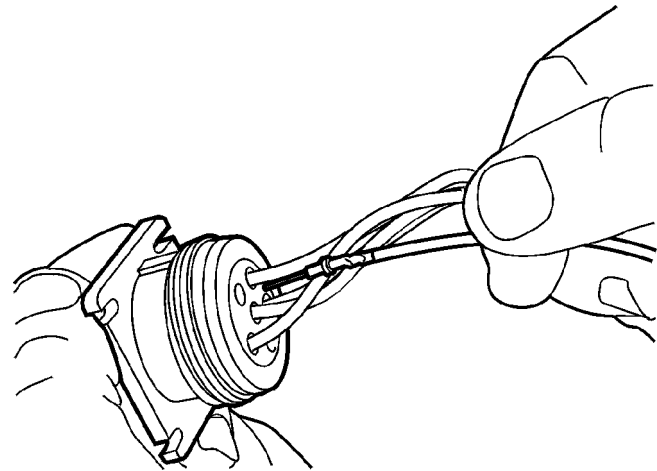
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Removing Contact and Tool

- 1 Contact Removal Tool
- 2 Contact

With the tool properly inserted and engaged on the wire, and with the connector unlocked, pull the wire from the cavity.

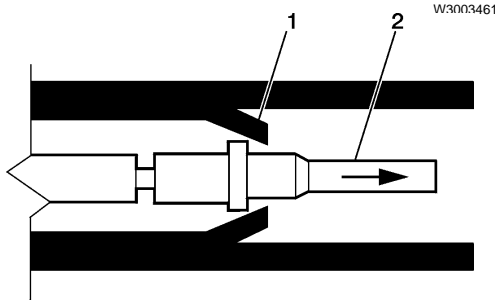
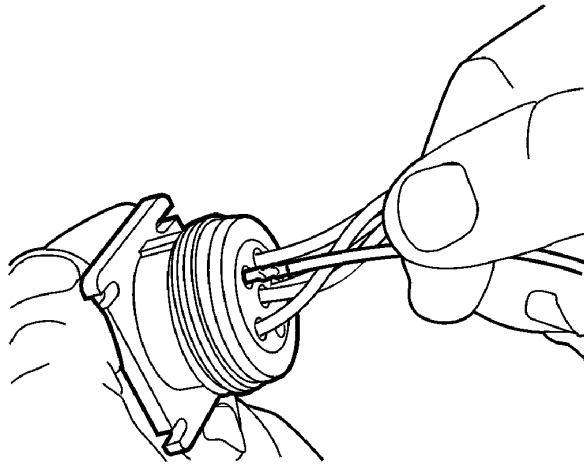
7



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To insert wire 403 into the D cavity, grasp the contact-wire assembly between the thumb and forefinger approximately one inch behind the contact crimp barrel.

8

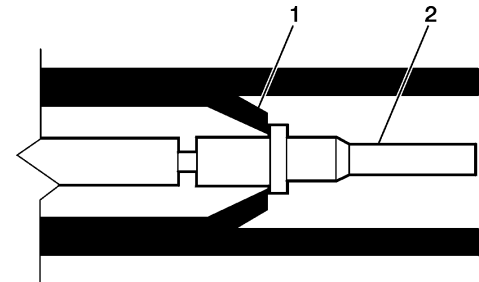


Inserting contact to locked position

- 1 Locking Fingers
- 2 Contact

Push the contact straight into the connector grommet until a positive stop is felt.

9



Contact in locked position

- 1 Locking Fingers
- 2 Contact

The retaining fingers in the connector will snap behind the shoulder of the contact and lock into place. A slight tug will confirm that it is properly sealed.

10

Using the Pro-Link 9000, test the programming function of the Instrument cluster. If viewing and changing functions of the parameters have been restored, replace the diagnostic connector into the dash housing. If these functions have **not** been restored, check again for proper wire connections.

11

Replace the HVAC duct and diagnostic connector into the kick panel.

12

Secure the left kick panel using the single plastic nut and three upper mounting screws.

13

Install the left threshold plate. Secure the plate with the mounting screws. Reinstall the screw covers.