

SL 501-33
9-3-81

FIAT SERVICE LETTER

SUBJECT: PORT INSTALLED AIR CONDITIONING UNIT

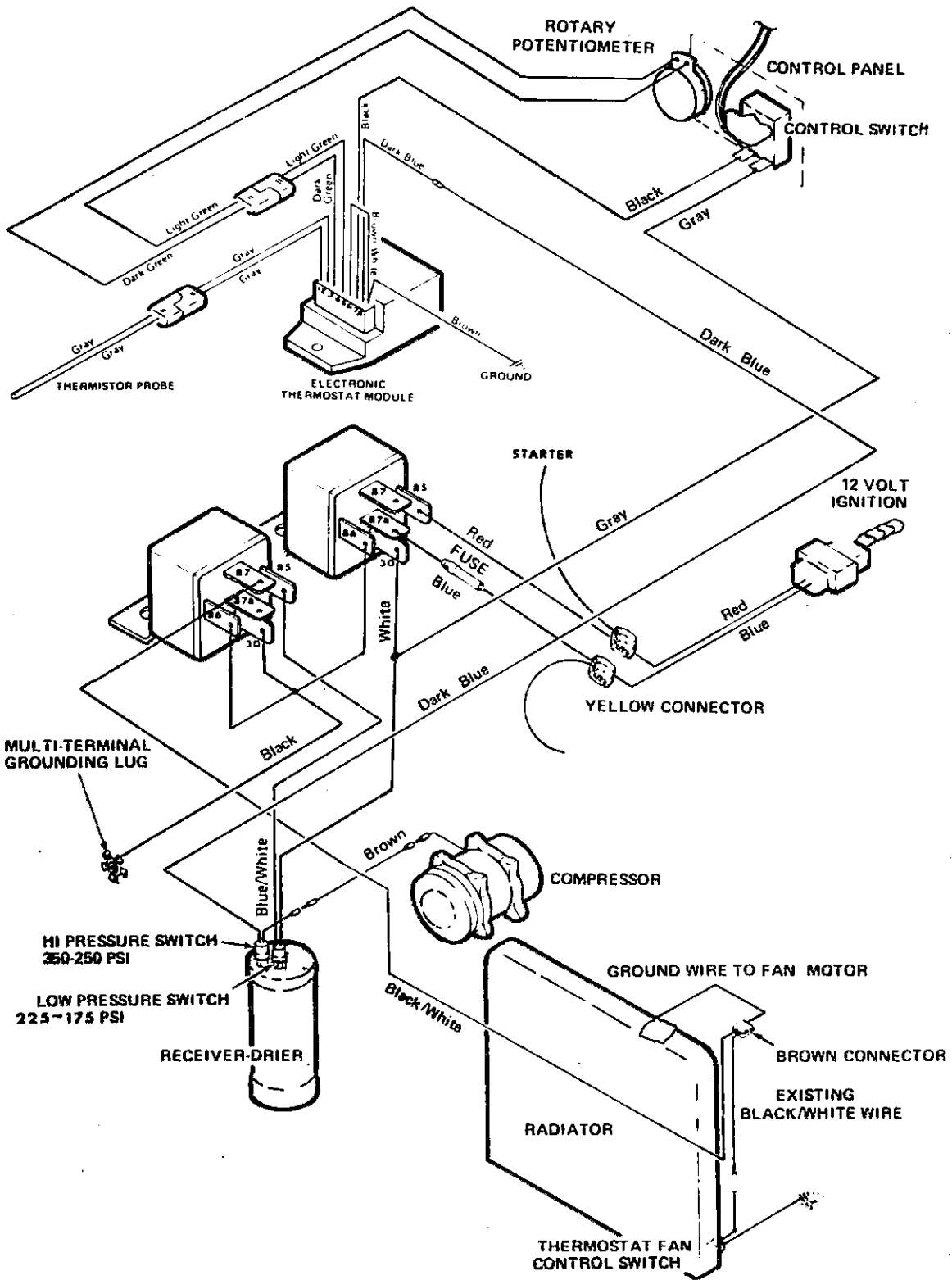
VEHICLES: 1981 SPIDER 2000

SERVICE INFORMATION: To troubleshoot the electrical control panel of the port installed air conditioning unit, use the attached diagnosis procedure.

The electrical wiring diagram for the A/C unit has also been attached.

READ, INITIAL AND PASS ON

Service Manager	Parts Manager	Service Writer	Technician			



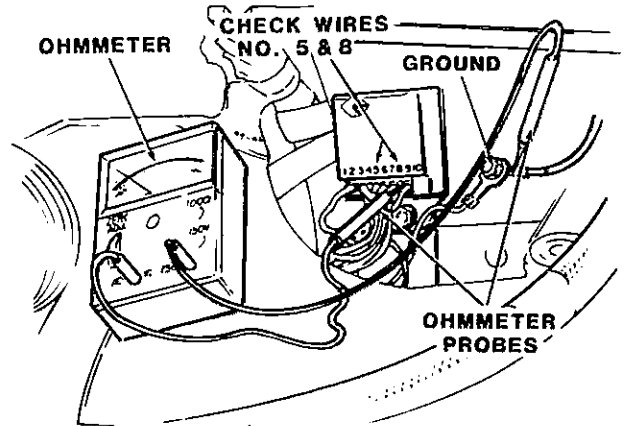
TROUBLESHOOTING PROCEDURE FOR A/C ELECTRONIC THERMOSTAT MODULE, PART NO. 4498

Important: Thermostat Module must Be Properly Grounded. Do not perform following procedure or apply 12 volt current to module unless it is properly grounded or damage to the module will result.

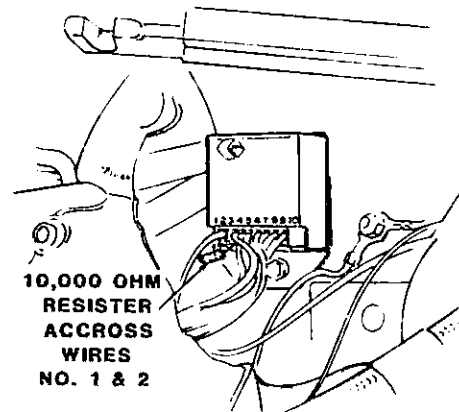
- From inside the passenger compartment (passenger side), lower the evaporator case by loosening the wing nut behind the case.

NOTE: The electrical wires of the thermostat module, mounted on the firewall behind the evaporator case, are specified by color codes and numbers which are stamped on the housing of the module.

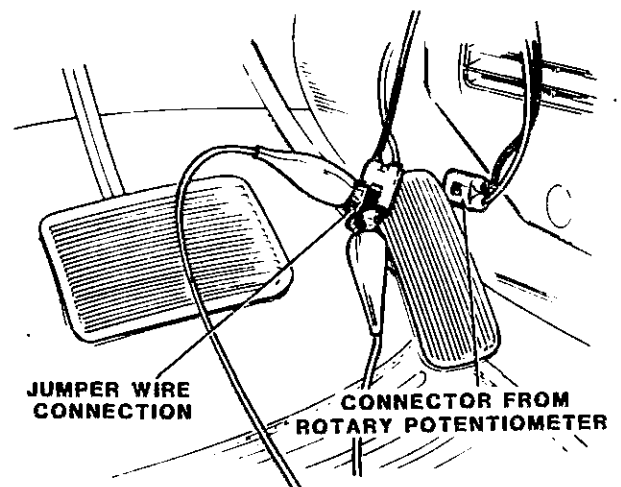
- Using an ohmmeter, make certain module wires, No. 5 (brown/white) and 8 (brown) are properly grounded. If necessary, retighten ground connection at firewall.



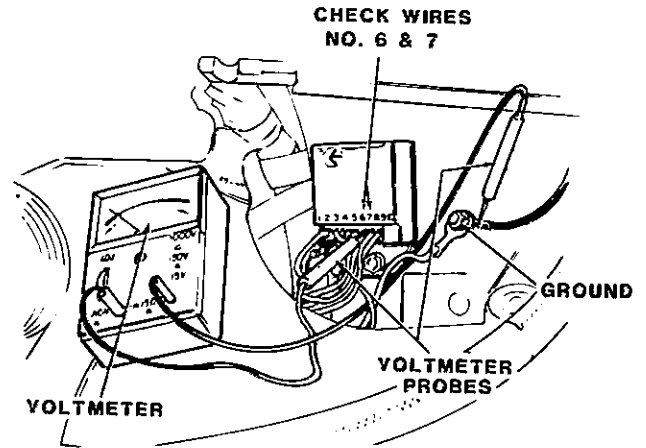
- Place a 10,000 ohm resistor across wires, No. 1 and 2 (gray wires) of module.



- From behind the A/C control panel (driver side), disconnect the wire harness connector from the cooling rotary potentiometer to the thermostat module (light and dark green wires)
- Place a jumper wire across thermostat module side of wire connector.



- With the ignition key turned to the MAR position, energize the blower control switch.
- Using a voltmeter, check that the module has:
 - 12 volt current at No. 6 wire (black power source). If no current is evident, check circuits at control switch, A/C inline fuse and relay.
 - 12^o volt current at No. 7 (dark blue) wire. If no current is evident, replace module, Part No. 4498.



- Remove the 10,000 ohm resistor from module.
- Using voltmeter, recheck No. 7 wire (dark blue) of module for 12 volt current. If no current is evident, replace the thermistor probe, Part No. 4499, located on the evaporator case.
- Remove jumper wire from wire connector of cooling potentiometer/module harness (light and dark green wires). Reconnect wires.
- Recheck 12 volt current at No. 7 wire of module. If no current is evident, replace rotary potentiometer, Part No. 4494.

