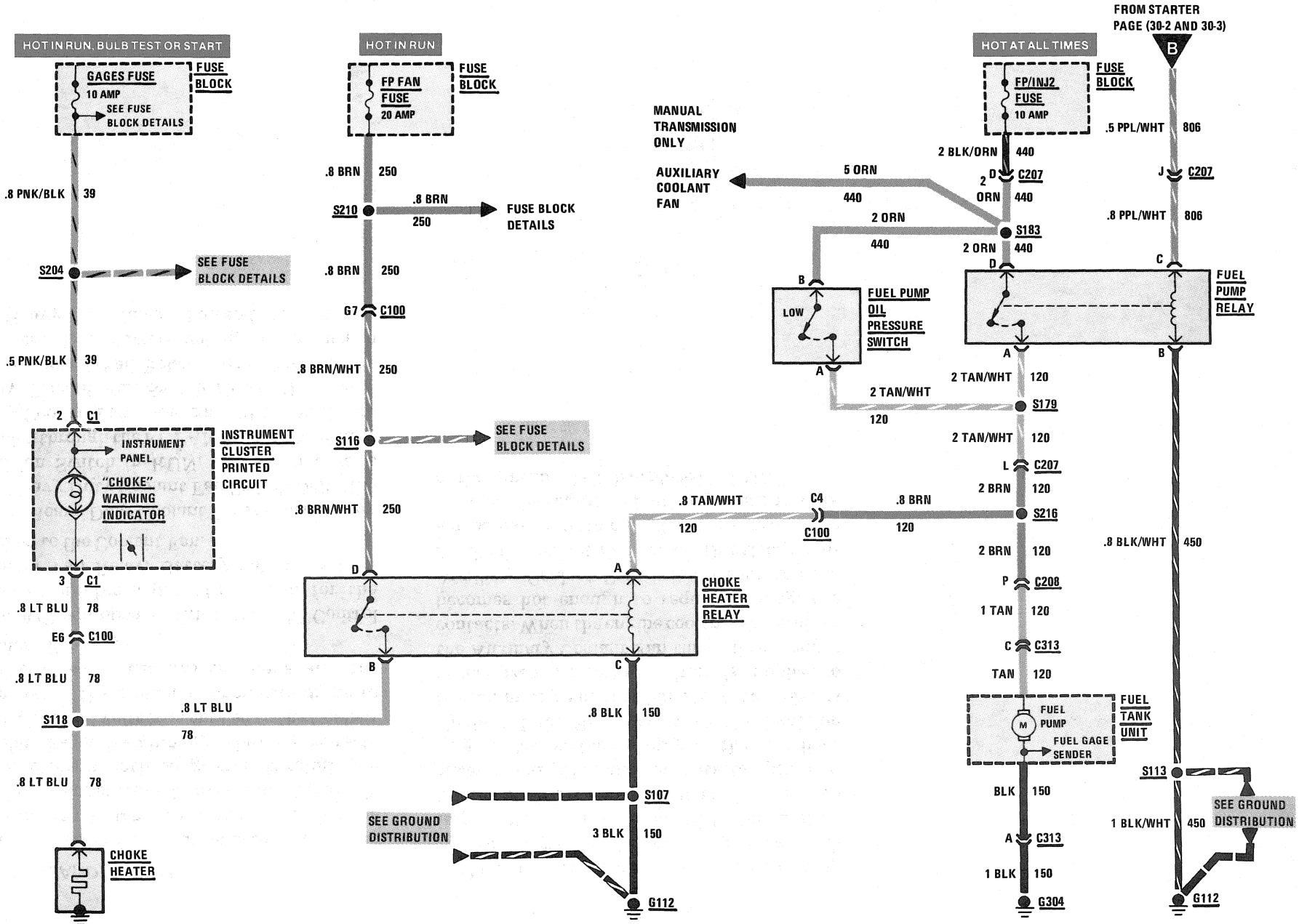
CHOKE HEATER: V8 VIN G, AND V8 VIN H



TROUBLESHOOTING HINTS

- **Try the following checks before doing the System Check.**

1. Check GAGES Fuse if the CHOKE Indicator does not light with the Ignition Switch in RUN and engine off, by observing the VOLTS Indicator.
2. Check FP FAN Fuse if the CHOKE Indicator stays on with the engine running.

- **Go to System Check for a guide to normal operation.**
- **Go to System Diagnosis for diagnostic tests.**

SYSTEM CHECK

- **Use the System Check Table as a guide to normal operation.**
- **Refer to System Diagnosis for a list of symptoms and diagnostic steps.**

SYSTEM CHECK TABLE

ACTION	NORMAL RESULT
Turn the Ignition Switch to RUN	CHOKE Indicator lights
Start the engine	CHOKE Indicator goes off

- **Refer to System Diagnosis when a result is not normal.**

SYSTEM DIAGNOSIS

- **Diagnostic steps for the symptoms listed in the following table are listed after the table.**

COMPONENT LOCATION

		Page-Figure
Choke Heater	On RH side of carburetor	201- 5-A
Choke Heater Relay	RH front corner of engine compartment	201- 7-C
Fuel Pump Oil Pressure Switch	Top center rear of engine	201- 7-B
Fuel Pump Relay (VIN G) (VIN H)	LH rear corner of engine compartment	201- 6-B
Fuel Tank Unit	Top of fuel tank	201-13-F
Fuse Block	Behind LH side of I/P	201-11-A
C100 (46 cavities)	LH side of dash	201- 3-A
C207 (15 cavities)	Behind RH side of I/P, near ECM	201-12-A
C208 (15 cavities)	Behind I/P, at LH shroud	201-12-A
C313 (3 cavities)	Below car, forward of fuel tank	201-15-A
G112 (VIN G) (VIN H)	Rear of RH cylinder head	201- 5-C
G304	Behind center of rear seat	201-15-A
S107	Engine harness, rear of engine	201- 5-A
S113	CCC harness, under RH side of I/P	201-12-A
S116	Engine harness, above RH valve cover	201- 5-A
S118	Engine harness, top rear of engine	201- 7-B
S179	CCC harness, top RH rear of engine	201- 7-A
S183	CCC harness, top RH rear of engine	201- 7-A
S204	I/P harness, behind RH side of cluster	201-10-A
S210	I/P harness, behind LH side of I/P	201-12-A
S216	I/P harness, at LH shroud	201-12-A

SYMPTOM TABLE

A. CHOKE Indicator is on with the engine running

B. CHOKE Indicator does not light with the Ignition Switch in RUN and the engine off

A: CHOKE INDICATOR IS ON WITH THE ENGINE RUNNING (TABLE 1)

Measure: VOLTAGE
At: CHOKE HEATER RELAY CONNECTOR (Disconnected)
Condition:
- **Engine Running**

(A: CHOKE INDICATOR IS ON WITH THE ENGINE RUNNING (TABLE 1) continued on next page)

(A: CHOKE INDICATOR IS ON WITH THE ENGINE RUNNING (TABLE 1) continued from previous page)

Measure Between	Correct Voltage	For Diagnosis
D (BRN/WHT) & Ground	Battery	See 1
D (BRN/WHT) & C (BLK)	Battery	See 2
A (TAN/WHT) & Ground	Battery	See 3

- If all voltages are correct, go to Table 2.

1. Check BRN/WHT (250) wire and the FP FAN Fuse for opens (see schematic).
2. Check BLK (150) wire for an open to ground (see schematic).
3. Check TAN/WHT (120) wire for an open (see schematic).

A: CHOKE INDICATOR IS ON WITH THE ENGINE RUNNING (TABLE 2)

Connect: FUSED JUMPER
At: CHOKE HEATER RELAY CONNECTOR (Disconnected)
Condition:
- **Ignition Switch: RUN**

Jumper Between	Correct Result	For Diagnosis
D (BRN/WHT) & B (LT BLU)	CHOKE Indicator goes off	See 1

(Continued in next column)

(Continued from previous column)

- If the result is correct, replace the Choke Heater Relay.

1. If the FP FAN Fuse and fused jumper do not blow, check the LT BLU (78) wire for an open (see schematic). Check the LT BLU (78) wire and the Choke Heater for a short to ground, if the FP FAN Fuse and/or fused jumper blows (see schematic).

B: CHOKE INDICATOR DOES NOT LIGHT WITH THE IGNITION SWITCH IN RUN AND THE ENGINE OFF

Remove F/P FAN Fuse.

- If the CHOKE Indicator lights, replace the Choke Heater Relay.
- If the CHOKE Indicator does not light, go to Table 1.

B: CHOKE INDICATOR DOES NOT LIGHT WITH THE IGNITION SWITCH IN RUN AND THE ENGINE OFF (TABLE 1)

Connect: FUSED JUMPER
At: CHOKE HEATER CONNECTOR (Disconnected)
Conditions:
- **Ignition Switch: RUN**
- **Engine Not Running**

Jumper Between	Correct Result	For Diagnosis
Choke Heater Connector & Ground	CHOKE Indicator lights	See 1

(Continued in next column)

(Continued from previous column)

- If the result is correct, replace the Choke Heater.

1. If the fused jumper or the FP FAN Fuse blows, replace the Choke Heater Relay. Check the PNK/BLK (39) wire, LT BLU (78) wire, indicator bulb and Instrument Cluster (Printed Circuit) for opens, if the fused jumper and the FP FAN Fuse are OK.

CIRCUIT OPERATION

When the Ignition Switch is turned to RUN, before the engine is started, voltage is applied across the CHOKE Indicator bulb. The CHOKE Indicator is grounded through the Choke Heater and the bulb lights.

While the engine is being started, the Fuel Pump Relay is energized; the relay contacts close and voltage is applied across the Choke Heater Relay coil. The relay contacts close and battery voltage is applied across the Choke Heater to the CHOKE Indicator. With equal voltages on both sides of the CHOKE Indicator, the bulb goes off. When the engine starts, the Fuel Pump Oil Pressure Switch closes. This keeps the Choke Heater Relay energized and battery voltage is applied across the Choke Heater to the CHOKE Indicator. The bulb remains off.