

CHART C-4A

IGNITION SYSTEM CHECK

5.0L & 5.7L "F" SERIES

FUEL INJECTION (PORT)

- Perform Diagnostic Circuit Check before proceeding with this test. (If a tachometer is connected to the Tach term., disconnect it before proceeding with the test).
- Check spark at plug with spark tester J-26792 or equivalent (ST-125) while cranking (if no spark on one wire, check a second wire) A few sparks and then nothing is considered no spark.

No Spark

Spark

- Disconnect 4 term. distributor connector and check for spark.

Check fuel, spark plugs, etc. See section "B" symptoms.

No spark

Spark

- Check for spark at coil wire with tester while cranking. (Leave spark tester connected to coil wire for Steps 3-6).

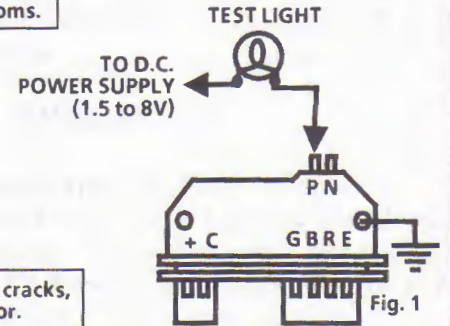
Replace pick-up coil

No Spark

Spark

- Disconnect distributor 2 term. "C/+ " connector.
- Ignition switch "on", Engine stopped.
- Check volts at " + " and "C" term's. of dist. harn. conn.

Inspect cap for water, cracks, etc. If OK, replace rotor.



Both term's. 10 volts or more

Both term's. under 10 volts

Under 10 volts "C" term. only

- Reconnect dist. 2 term. conn.
- With ign. "ON", check voltage from tach. term. to gnd. (term. may be taped back in harness).

Repair wire from module " + " term. to "B" term. of black Ign. coil connector or primary ckt. to ign. sw.

Check for open or gnd. in ckt. from "C" term. to ign. coil. If Ckt. is OK, fault is. ign. coil or conn..

Over 10 volts

Under 1 volt

1 to 10 volts

- Connect test light from tach. term. to ground.
- Crank engine and observe light.

Repair open tach. lead or conn and repeat test #4.

Replace module and check for spark from coil as in Step 6.

Light on steady

Light blinks

Spark

No Spark

- Disconnect distributor 4 term. connector.
- Remove dist. cap.
- Disconnect pick-up coil connector from module.
- Connect voltmeter from tach. term. to ground.
- Ignition on.
- Insulate a test light probe to 1/4" from tip and note voltage, as test light is momentarily connected from a voltage source (1.5 to 8V) to module term. "P". (Fig. 1).

System OK

Replace ign. coil, it too is faulty

Replace ignition coil and recheck for spark with spark tester. If still no spark, re-install original coil and replace dist. module..

Voltage drops

No drop in voltage

- Check for spark from coil wire with spark tester as test light is removed from module term.

Check module ground. If OK, replace module.

No Spark

Spark

- If no module tester (J24642) is available; Replace ign. coil and repeat Step 5.

- If module tester (J24642) is available: test module

- Is rotating pole piece still magnetized?

No Spark

Spark

OK

Not OK

Yes

No

Ign. coil removed is OK, reinstall coil and check coil wire from dist. cap. if OK, replace dist. module.

System OK

Check coil wire from cap to coil. If OK, replace coil.

Replace module

Check pick-up coil or conns. (Coil resistance should be 500-1500 ohms and not grounded).

Replace pole piece and shaft assy.