7.3 PSD Crank No Start
Troubleshooting Flowchart

Crank, No Start

Does "Wait to Start" Light Illuminate?

No

Crank case oil level full?

Yes

Yes

No

Replace CPS with Ford or International part

Test CPS wiring harness

Smoke from Tailpipe while cranking?

Yes

Yes

Replace CPS with Ford or International part

Test CPS wiring harness

No

No

Crank case oil level full?

No

Does Tachometer move while cranking?

Yes

Check for loose Chip or programmer on PCM (if present)

Good

Good

Bad

Replace PCM with known good unit and test again

Replace PCM Diode

Check for loose Chip or programmer on PCM (if present)

Yes

Check Red Wire at PCM for 12V Power

No

No

Test PCMs Diode with a DVOM

Replace PCM with known good unit and test again

Replace PCM Diode

Test wiring to PCM

Yes

Replace PCM Diode

Test wiring to PCM

Yes

Test with a mechanical gauge or scanner

Same symptoms on both tanks?

Yes

Low or no HPOP Pressure (>2000PSI is good)

Replace Fuel Pump

Replace Fuel Pump

No

No

Try to start with ICP unplugged

<500 PSI

Yes

Tighten tin nut and try again

Yes

Tighten tin nut and try again

Yes

Replace ICP and inspect plug for oil

Bad ICP, PCM or wiring

No Start

>500 PSI

No

No

No

No

Replace Fuel Bowl Heater and replace fuse #22

Smoke from Tailpipe while cranking?

Yes

Sufficient Cranking Speed? (200 RPMs Min.)

Glow Plug Relay Functioning? (test with a test light - Should have voltage on both large terminals when key is in "Run" position)

Connect Fuel Bowl Heater and replace fuse #22

No

No

Test wiring to PCM

Yes

Replace PCM Relay (or swap with another relay)

Test Fuel Pressure at regulator (>20PSI is good)

Same symptoms on both tanks?

No

No

Low or no HPOP Pressure (>2000PSI is good)

Clean FPR Screen

Clogged fuel line, bad selector valve/switch, empty tank, etc.

Replace FPR

Check UVCWHs for burned pins

Test CPS wiring harness

No

Yes

Replace PCM Diode

Replace PCM Diode

Check Red Wire at PCM for 12V Power

No

No

Check for loose Chip or programmer on PCM (if present)

No power to PCM or PCM inoperable

Check Fuse #22 in under hood power distribution center

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