

# 1974-79 FUEL SYSTEMS

## Carburetor Trouble Shooting

### All Models

CONDITION	POSSIBLE CAUSE	CORRECTION
<b>HOT STARTING SYMPTOM</b>		
▶ Engine cranks but will not start	1) Engine flooded, fuel level too high 2) Fuel vapors in carburetor bowl 3) Fuel line hot, touching engine block or exhaust	1) Adjust float drop and setting; inspect needle and seat for proper seating; check for dirt 2) Inspect bowl vent operation and correct 3) Inspect and reroute fuel line
<b>COLD ENGINE DRIVEABILITY SYMPTOM</b>		
▶ Engine stalls when put in gear	1) Incorrect choke vacuum kick setting 2) Fast idle RPM too low 3) Incorrect fast idle cam setting 4) Improper choke adjustment	1) Inspect and correct 2) Adjust fast idle RPM 3) Correct cam positioning 4) Adjust choke
▶ Hesitation, stalling during acceleration  Backfire  Stumble	1) Defective choke control switch 2) Incorrect choke vacuum kick setting 3) Low fuel/float level  4) Faulty accelerator pump or blocked pump discharge  5) Secondary throttle not closed, wrong lockout adjustment 6) Bypass holes and ducts blocked 7) Incorrect intake air preheater setting 8) Incorrect carburetor synchronization; on dual carburetor models 9) Main and/or air corrector jets blocked 10) Faulty power valve 11) Plugged heat crossover system	1) Test, replace if needed 2) Adjust vacuum kick 3) Adjust float drop and setting; check fuel level 4) Inspect, adjust pump stroke, plunger; test fuel discharge quantity; check pump spray direction 5) Adjust secondary throttles 6) Clean preheater assembly 7) Set to proper season 8) Synchronize carburetors 9) Inspect and clean 10) Replace 11) Clean and test heat crossover valve; clean passages
<b>WARM ENGINE DRIVEABILITY SYMPTOM</b>		
▶ Low power, Surging high speed operation	1) Main jets clogged 2) Fuel filter dirty (restricted) 3) Pinched, blocked fuel line 4) Air cleaner dirty (restricted) 5) Faulty power valve 6) Throttle linkage out of adjustment; not opening fully 7) Low fuel pump output 8) Improper fuel level 9) Carburetor seals leaking	1) Clean 2) Replace filter 3) Inspect and repair 4) Replace air cleaner 5) Adjust or replace 6) Inspect and adjust linkage  7) Replace after testing 8) Adjust float/fuel level 9) Replace seals, gaskets
▶ Carburetors cannot be synchronized  (Dual Carburetor models)	1) Weak return springs 2) Linkage binding, needs adjusting 3) Blocked idler jets 4) Faulty mixture control screw(s) 5) Faulty carburetor seals 6) Vacuum leak(s); Check for leak at brake unit 7) Carburetors not tightened to intake manifold properly	1) Replace springs 2) Inspect, clean and adjust 3) Clean jets 4) Replace screw(s) 5) Replace seals as needed 6) Locate and correct leak  7) Evenly tighten carburetor screws; check torque

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## Carburetor Trouble Shooting (Cont.)

CONDITION	POSSIBLE CAUSE	CORRECTION
▶ High fuel consumption	<ol style="list-style-type: none"> <li>1) Fuel system leak</li> <li>2) Wrong size jets</li> <li>3) Faulty fuel inlet needle and/or seat</li> <li>4) Fuel mixture setting incorrect</li> <li>5) Dirty air cleaner</li> <li>6) Excessive accelerator pump discharge</li> <li>7) Intake air preheater not ON or OFF according to season</li> <li>8) Enrichment system does not switch off</li> <li>9) Choke valve not opening all the way</li> <li>10) Secondary throttle opens too early</li> </ol>	<ol style="list-style-type: none"> <li>1) Locate and repair leak</li> <li>2) Install correct jets</li> <li>3) Replace needle and seat</li> <li>4) Adjust idle RPM and mixture</li> <li>5) Clean or replace</li> <li>6) Test and adjust fuel discharge quantity</li> <li>7) Temperature above 50°F (10°C), preheater should be OFF</li> <li>8) Free up vacuum plunger</li> <li>9) Adjust choke valve</li> <li>10) Inspect secondary throttle linkage, adjust or repair as needed</li> </ol>

## Gasoline Fuel Injection Trouble Shooting

CONDITION	POSSIBLE CAUSE	CORRECTION
<b>COLD START SYMPTOM</b>		
▶ Engine cranks, will not start	<ol style="list-style-type: none"> <li>1) Fuel pump not working</li> <li>2) "Cold" control pressure incorrect (CIS)</li> <li>3) Auxiliary air valve does not open</li> <li>4) Cold start valve does not operate</li> <li>5) Cold start valve leaking</li> <li>6) Sensor plate stop set incorrectly (CIS)</li> <li>7) Sensor plate and/or plunger sticking</li> <li>8) Vacuum leak</li> <li>9) Fuel system leak</li> <li>10) Faulty Thermo Time switch</li> <li>11) Distributor triggering contacts (AFC &amp; EFI)</li> <li>12) Temperature sensors 1 &amp; 2 (AFC &amp; EFI)</li> </ol>	<ol style="list-style-type: none"> <li>1) Check fuel pump and double fuse relay, replace as necessary</li> <li>2) Replace warm-up regulator if pressure not to specification</li> <li>3) Replace valve</li> <li>4) Check electrical power to valve, replace valve if necessary</li> <li>5) Replace valve</li> <li>6) Adjust to specifications</li> <li>7) Free up or replace as needed</li> <li>8) Repair vacuum leaks</li> <li>9) Repair fuel leaks</li> <li>10) Replace switch</li> <li>11) Repair or replace as needed</li> <li>12) Replace as necessary</li> </ol>
▶ Engine hard starting	<ol style="list-style-type: none"> <li>1) "Cold" control pressure incorrect (CIS)</li> <li>2) Auxiliary air valve does not open</li> <li>3) Cold start valve does not open</li> <li>4) Cold start valve leaking</li> <li>5) Sensor plate stop set incorrectly (CIS)</li> <li>6) Sensor plate and/or plunger stuck (CIS)</li> <li>7) Vacuum leak(s)</li> <li>8) Fuel leak(s)</li> <li>9) Thermo Time switch does not close</li> </ol>	<ol style="list-style-type: none"> <li>1) Replace warm-up regulator</li> <li>2) Replace valve</li> <li>3) Check for electrical power to valve, replace valve if necessary</li> <li>4) Replace cold start valve</li> <li>5) Adjust sensor plate stop to specifications</li> <li>6) Free up or replace as necessary</li> <li>7) Repair vacuum leak(s)</li> <li>8) Repair fuel leak(s)</li> <li>9) Replace Thermo Time switch</li> </ol>