

1980 Fuel Systems Trouble Shooting 2-9

ELECTRIC FUEL PUMP TROUBLE SHOOTING (Cont.)

CONDITION	POSSIBLE CAUSE	CORRECTION
▶ Pump operating; no fuel output	<ol style="list-style-type: none"> 1) Check fuel supply 2) Check for pinched or blocked fuel line from pump to carburetor 3) Check for blocked fuel filter 4) Check fuel cut-off valve 5) Check contact points in pump 	<ol style="list-style-type: none"> 1) Add fuel 2) Locate and repair 3) Replace 4) If blocked, disconnect outlet hose at valve and apply low air pressure to valve to reseat check ball. Recheck pump output. 5) Clean or replace points
▶ Pump noisy	<ol style="list-style-type: none"> 1) Check for air leak on inlet (suction) side of pump 2) Pump loose, vibrating against other parts 3) Pump lines (metal) touching body parts 4) Check foam rubber insulation at pump mounting 	<ol style="list-style-type: none"> 1) Locate and repair leak 2) Tighten pump evenly 3) Reroute lines for clearance 4) Position insulation correctly or replace
▶ Excessive pump pressure	<ol style="list-style-type: none"> 1) Defective pressure relief valve 	<ol style="list-style-type: none"> 1) Replace pump assembly

TURBOCHARGER TROUBLE SHOOTING

CONDITION	POSSIBLE CAUSE	CORRECTION
▶ Compressor noise or vibration	<ol style="list-style-type: none"> 1) Poor lubrication of turbocharger shaft bearing 2) Leakage in induction or exhaust system 3) Unbalanced turbocharger shaft due to damage 	<ol style="list-style-type: none"> 1) Check oil pressure to turbocharger 2) Tighten connections and replace gaskets or seals 3) Replace turbocharger
▶ Insufficient charge pressure	<ol style="list-style-type: none"> 1) Leakage between compressor or turbine and cylinder head 2) Incorrect setting of charge pressure 3) Charge pressure regulator stuck in open position 4) Partially clogged exhaust system 5) Clogged air cleaner 6) Binding turbocharger shaft 	<ol style="list-style-type: none"> 1) Tighten leaking connections. Replace seals and gaskets 2) Adjust charge pressure regulator spring tension 3) Overhaul regulator 4) Clean or replace exhaust system 5) Change air filter 6) Replace turbocharger
▶ Metallic noise from regulator	<ol style="list-style-type: none"> 1) Play in regulator valve 2) Spring insufficiently offset in regulator 	<ol style="list-style-type: none"> 1) Overhaul regulator 2) Adjust position of spring

2-10 1980 Fuel Systems Trouble Shooting

TURBOCHARGER TROUBLE SHOOTING (Cont.)

CONDITION	POSSIBLE CAUSE	CORRECTION
▶ Excessive charge pressure	<ol style="list-style-type: none"> 1) Leakage at exhaust pressure line connection 2) Clogged exhaust pressure line 3) Damaged diaphragm in charge pressure regulator 4) Valve in charge pressure regulator stuck in closed position 5) Ice formation in exhaust pressure line 6) Incorrect setting of charge pressure regulator 	<ol style="list-style-type: none"> 1) Tighten connections 2) Remove and clean 3) Replace diaphragm or regulator 4) Overhaul regulator 5) Avoid heavy loading of engine after cold start 6) Adjust regulator
▶ Engine knocking	<ol style="list-style-type: none"> 1) Excessive charge pressure 2) Fuel octane too low 3) Ignition setting too far advanced 	<ol style="list-style-type: none"> 1) Adjust charge pressure 2) Change fuel 3) Adjust timing
▶ Oil leakage at turbo shaft (oil fumes in exhaust)	<ol style="list-style-type: none"> 1) Poor return oil flow from turbocharger 2) Turbocharger seals damaged 	<ol style="list-style-type: none"> 1) Check oil return line, crankcase ventilation, and air filter 2) Replace turbocharger