

1980 Fuel Systems

TURBOCHARGER TROUBLE SHOOTING

CONDITION	POSSIBLE CAUSE	CORRECTION
▶ Engine Detonation:	<ol style="list-style-type: none"> 1) Malfunction in spark advance or retard system. 2) EGR system defect. 3) Carburetor or turbocharger air inlet restrictions. 4) Actuator allows too much boost. 5) Defect in carburetor power system. 6) Internal turbocharger defect. 	<ol style="list-style-type: none"> 1) Diagnose and correct. 2) Diagnose and correct. 3) Replace dirty air cleaner. Check thermal door. Check air door housing 4) Check linkage and hoses. Defective wastegate. 5) Check carburetor vacuum. 6) Refer to Internal Inspection of Turbocharger in this article.
▶ Low Engine Power:	<ol style="list-style-type: none"> 1) Air inlet restriction 2) Exhaust system restriction. 3) Malfunction in spark advance or retard system. 4) EFE system defect (GM only). 5) EGR system defect. 6) Carburetor power system. 7) Turbocharger defect. 	<ol style="list-style-type: none"> 1) Locate and correct. 2) Locate and correct. 3) Diagnose and correct. 4) Check and repair. 5) Check and repair. 6) See appropriate article in FUEL SYSTEMS Section. 7) Check for exhaust leaks. Check vacuum switches. Collapsed or kinked plenum coolant hose. Defective wastegate. Perform internal inspection of turbocharger.
▶ Engine Surges:	<ol style="list-style-type: none"> 1) ESC malfunction. 2) Defective vacuum switch. 3) EGR system defect. 4) Loose turbocharger bolts on compressor side. 	<ol style="list-style-type: none"> 1) Diagnose and correct. 2) See appropriate testing procedure. 3) See appropriate article in FUEL SYSTEMS Section. 4) Diagnose and correct. Tighten.
▶ Oil Consumption Blue Exhaust Smoke:	<ol style="list-style-type: none"> 1) Leak at turbocharger oil inlet. 2) Turbocharger oil drain hose leaks or stopped up. 3) Turbocharger defect (internal). 	<ol style="list-style-type: none"> 1) Locate and correct. 2) Repair or clean. 3) See Internal Inspection in Turbocharger Section.

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TURBOCHARGER TROUBLE SHOOTING (Cont.)

CONDITION	POSSIBLE CAUSE	CORRECTION
▶ Black Exhaust Smoke:	<ol style="list-style-type: none">1) Defective vacuum switch.2) Carburetor defect.	<ol style="list-style-type: none">1) See appropriate testing procedure.2) See appropriate article in FUEL SYSTEMS Section.
▶ Engine Noise :	<ol style="list-style-type: none">1) EFE system defect (GM only).2) Loose exhaust system or leak.3) AIR system defect.4) Restricted turbocharger oil supply.5) Internal turbocharger defect.	<ol style="list-style-type: none">1) Diagnose and correct.2) Locate and tighten.3) Diagnose and correct.4) Locate and repair. Check oil feed line.5) See Internal Inspection in turbocharger section.