

D: Manifold Absolute Pressure (MAP) Sensor Introduction

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Signal Functions

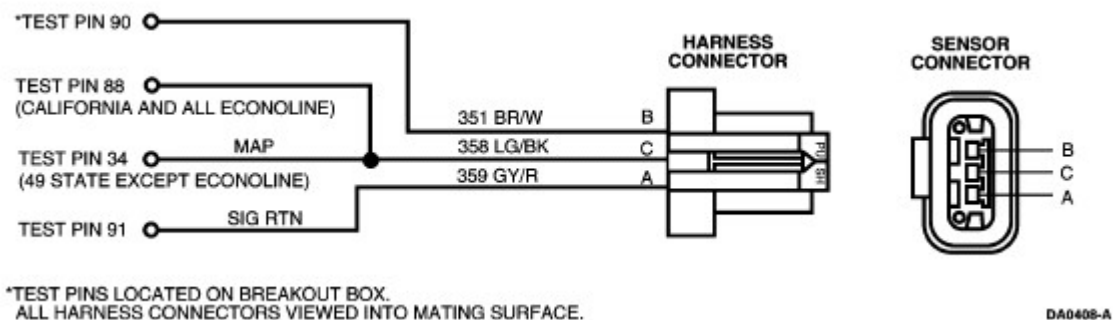
The manifold absolute pressure (MAP) sensor is a variable capacitance sensor that, when supplied with a 5-volt reference signal from the powertrain control module (PCM), produces a digital frequency signal that indicates pressure.

Smoke Control — The MAP signal is used to control smoke by limiting fuel quantity during acceleration until a specified boost pressure is obtained.

Dynamic Injection Timing — Optimizes injection timing for boost pressure measured.

Fault Detection/Management

A MAP signal that is detected by the PCM to be out of range or at an incorrect value for specific conditions will cause the PCM to ignore the MAP signal and operate the engine from an inferred boost pressure signal.



Note

After removing connectors, always check for damaged pins, corrosion, loose terminals, etc.

DTC Descriptions

P0236 = Turbo Boost Sensor A Circuit Performance

P0237 = Turbo Boost Sensor A Circuit Low Input

P0238 = Turbo Boost Sensor A Circuit High Input

P1247 = Turbo Boost Pressure Low

P1248 = Turbo Boost Pressure Not Detected

Hz	PSIA	KPA
94	10	70
102	12	83
109	14	97
111	14.7	101
116	16	110
123	18	124
130	20	138
138	22	152
145	24	166
152	26	179
159	28	193
167	30	207
174	32	221
181	34	234
188	36	248
195	38	262
203	40	276
210	42	290
217	44	303

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