

Mitsubishi Ignition timing on 1987-96 fuel injected vehicles with timing adjustment (diagnostic) connectors.

Symptom: Misfire, loss of power, ping, and other ignition-related problems.

Contributing Source: Mitsubishi Service Manuals.

The ECU controls ignition timing and advance after base timing is set. To check and adjust base timing:

1. Make sure the scanner is not connected to the vehicle. Ground the timing adjustment connector test terminal with a jumper wire. This puts the system into base timing mode. The connector usually is taped to a wiring harness, and may have a protective cap installed over the end to keep moisture out. Two styles of connectors have been used, figures 1 and 2. See table 1 for connector locations. To verify proper connector, check for 5-volt reference with KOER.
2. After grounding the test terminal, start the engine and check base timing.
3. To adjust base timing:
 - SOHC engine - loosen distributor retaining nuts; rotate as necessary;
 - DOHC engine - loosen crank angle sensor retaining nuts; rotate as necessary. (Sensor located at rear of intake camshaft).
4. After base timing is properly set, tighten the distributor holddown, shut the engine off, remove the jumper wire from the test terminal and reinstall the protective cap if used.

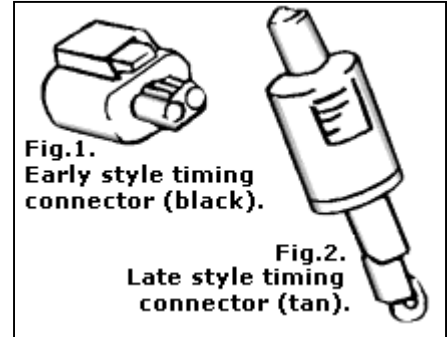


Table 1. Timing terminal connector locations.

Model	Year	Engine	Location	Color
Van/Wagon	87-90	2.4L	Above/behind valve cover	Black
Galant	87-94	2.0L, 2.4L	Bulkhead center	Black or Tan
Galant/Sigma	88-90	3.0L	LF strut tower, next to coil	Black
Montero	89-92	3.0L	Left bulkhead, below wiper motor	Black
Montero	93-94	3.0L	Right bulkhead, below VIN plate	Tan
Truck	90-96	2.4L, 3.0L	Right fender panel	Tan
Mirage	89-92	1.5L, 1.6L	Bulkhead center	Black
Mirage	93-95	1.5L, 1.8L	Bulkhead center	Tan
Mirage	87-88	Turbo	Bulkhead center	Black
Eclipse	90-94	1.8L, 2.0L	Bulkhead, near battery	Black
Precis	90-94	1.5L	Near air flow meter	Black
3000 GT	90-94	3.0L	Right strut tower, near bulkhead	Tan
Starion	87-89	2.6L	Bracket, left of center bulkhead	Black
Expo/LRV	87-89	1.8L, 2.4L	Bracket, left of center bulkhead	Tan
Diamante	92-94	3.0L SOHC	Bulkhead center	Tan
Diamante	92	3.0L DOHC	Bulkhead center	Tan