MERCURY MerCruiser

Service Bulletin

Bulletin No. 2004-08

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350 MAG and MX6.2L Engine Control System Change

Models Affected

Models Affected	Serial Number Or Year
Sterndrive Models 350 MAG MPI, 350 MAG MPI Horizon, MX6.2L MPI, MX6.2L MPI Horizon	0W310000 and Above
Inboard Models 350 MAG MPI, 350 MAG MPI Horizon, MX6.2L MPI, MX6.2L MPI Horizon	0W390000 and Above

Situation

The Engine Control System has been enhanced to include dual knock sensors, cam sensor and an improved fuel injector firing sequence, resulting in the following changes:

- The 350 MAG MPI and 350 MAG MPI Horizon fuel injectors will now fire in pairs.
- Inboard and Sterndrive Models will have unique engine wiring harnesses: Sterndrive Engine Wiring Harness Part Number 84-865454A03 Inboard Engine Wiring Harness Part Number 84-865455A03
- The wide open throttle (WOT) range has been increased.

Model	WOT Range
350 MAG MPI Sterndrive	4800-5200 RPM
350 MAG MPI Inboard	4600-5000 RPM

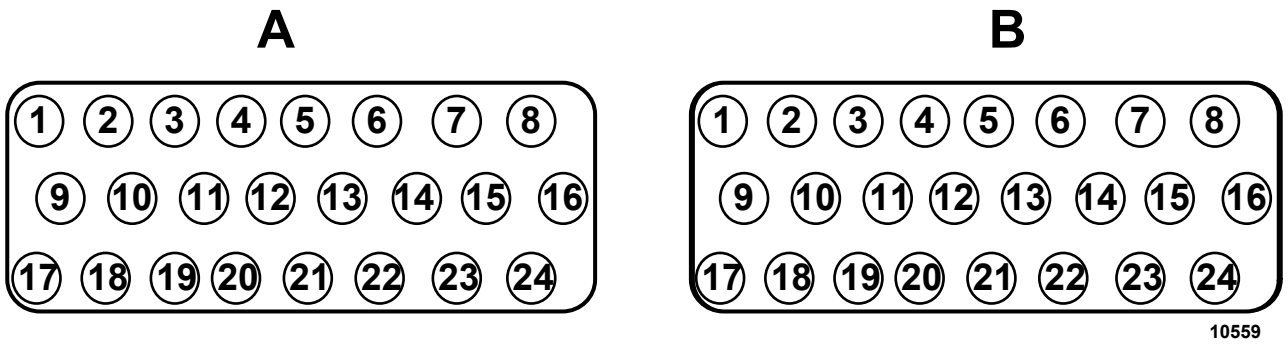
- ECM pin locations have changed. Refer to New ECM Pin Locations.

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New ECM Pin Locations



Connector A		Connector B	
1	Fuel injector circuit, injectors 4 and 7	1	Splice 100
2	Fuel injector circuit, injectors 5 and 8	2	MAPT connector pin 2
3	Empty	3	MAPT connector pin 4
4	CAN line connector pin J	4	Fuel level connector pin C
5	Diagnostic connector pin C	5	Crankshaft connector pin C
6	Odd knock connector pin B	6	Empty
7	Even knock connector pin B	7	Oil pressure connector pin C
8	Splice 109	8	Transom connector pin E
9	10-pin connector pin 4	9	Paddle wheel connector pin C
10	10-pin connector pin 2	10	Camshaft connector pin C
11	CAN Line connector pin K	11	Seapump pressure connector pin C
12	Diagnostic connector pin B	12	Transom connector pin D
13	Odd knock connector pin A	13	Digital trim
14	Even knock connector pin A	14	Coolant connector pin B
15	CAN Line connector pin E	15	Empty
16	Splice 104	16	Empty
17	Fuel injector circuit, injectors 1 and 6	17	Empty
18	Fuel injector circuit, injectors 3 and 2	18	Splice 102
19	Fuel pump relay pin 86	19	Shift interrupt connector pin C
20	IAC connector pin 1	20	Throttle position connector pin C
21	Gear indicator connector pin B	21	Splice 101
22	Main power relay pin 85	22	Paddle wheel connector pin D
23	Splice 106	23	Coil driver connector pin B
24	Splice 104	24	Empty

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