

SECTION 19

EEC IV—Engine Supplement— Passenger Car

Contents

1.9L EFI	
Diagnostic By Symptom	19-1
Electrical Schematic	19-2
EEC-IV Module Connector Pin Usage	19-3
2.3L EFI TURBO	
Diagnostic By Symptom	19-4
Electrical Schematic	19-5
EEC-IV Module Connector Pin Usage	19-6
2.3L OHC FBC	
Diagnostic By Symptom	19-8
Electrical Schematic	19-9
EEC-IV Module Connector Pin Usage	19-10
2.3L HSC CFI	
Diagnostic By Symptom	19-11
Electrical Schematic	19-12
EEC-IV Module Connector Pin Usage	19-13
2.5L CFI, ATX	
Diagnostic By Symptom	19-14
Electrical Schematic	19-16
Integrated Controller Schematic	19-17
Integrated Controller Pin Usage	19-18
EEC-IV Module Connector Pin Usage	19-19
2.5L CFI, MTX	
Diagnostic By Symptom	19-14
Electrical Schematic	19-20
Integrated Controller Schematic	19-21
Integrated Controller Pin Usage	19-22
EEC-IV Module Connector Pin Usage	19-23
3.0L EFI	
Diagnostic By Symptom	19-24
Electrical Schematic	19-25
Integrated Controller Schematic	19-26
Integrated Controller Pin Usage	19-27
EEC-IV Module Connector Pin Usage	19-28
3.8L CFI	
Diagnostic By Symptom	19-29
Electrical Schematic	19-30
EEC-IV Module Connector Pin Usage	19-31
5.0L SEFI	
Diagnostic By Symptom	19-32
Electrical Schematic	19-33
EEC-IV Module Connector Pin Usage	19-34

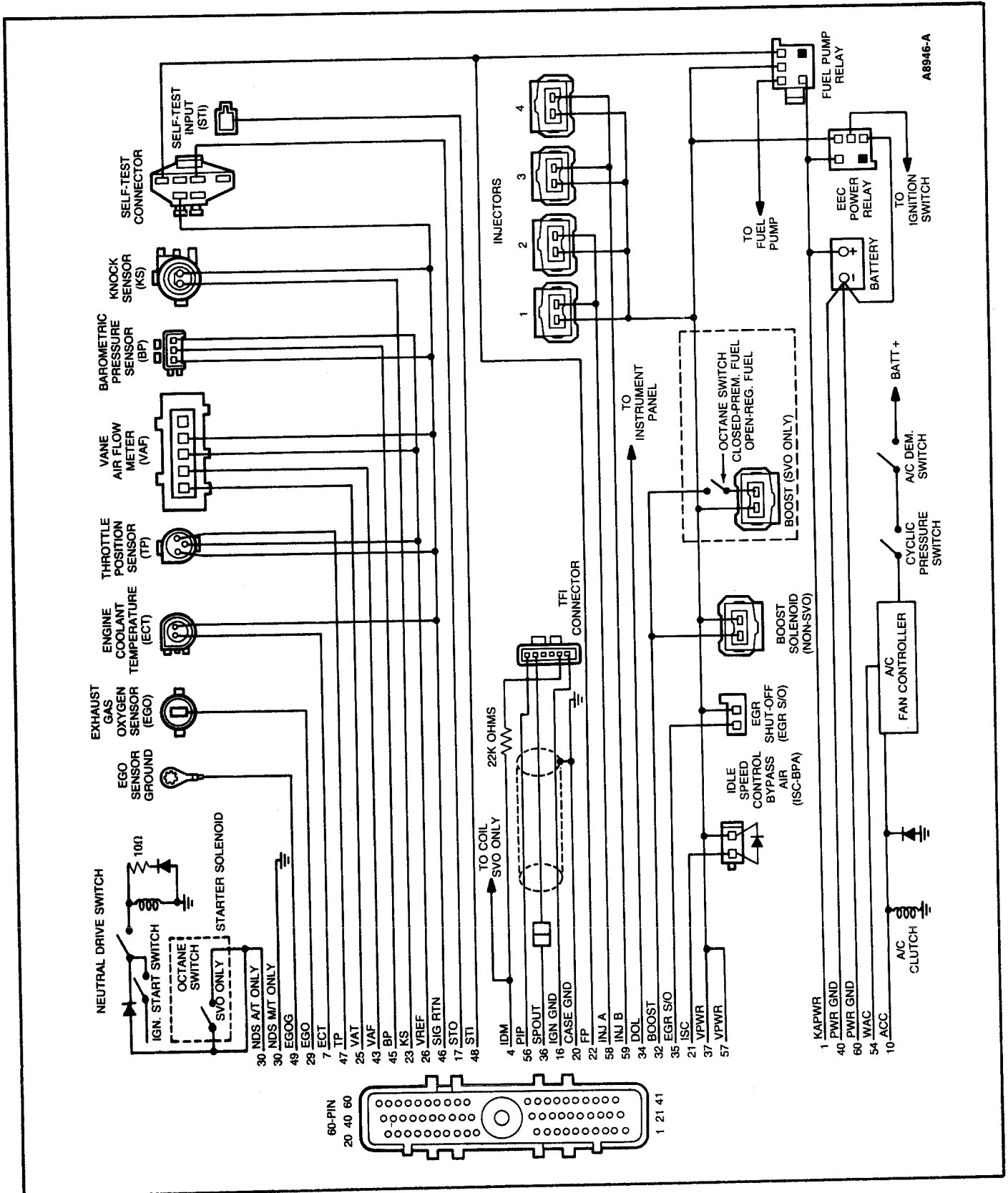
Diagnostic By Symptom

2.3L EFI TURBO

SYMPTOM		RESULT	ACTION TO TAKE
7.0	DIAGNOSTICS BY SYMPTOM		
	<ul style="list-style-type: none"> • Engine stalls. • Stalls in Self-Test. • Runs rough. • Misses. 	Always Rich/Lean. ▶	<ul style="list-style-type: none"> • GO to Pinpoint Test Step S1. • BP test, GO to Pinpoint Test Step DF20. • Idle speed control, GO to Pinpoint Test Step KE1. • Poor power/ground connections. • Ignition system distributor cap, rotor, wires, coil, plugs. • Short to Ground, Go to Pinpoint Test Step J9. • Base engine valves cam timing, compression etc.
	<ul style="list-style-type: none"> • Detonation/spark knock. 		GO to Pinpoint Test Step DG1 .
	<ul style="list-style-type: none"> • High idle speeds on each restart may be accompanied by detonation for up to 3-5 minutes after a restart. 		GO to Pinpoint Test Step DG1 .
	<ul style="list-style-type: none"> • Lack of fast idle assist with A/C On. 		GO to Pinpoint Test Step FA1 .
	<ul style="list-style-type: none"> • Gasoline fumes under hood. 		GO to Pinpoint Test Step KD1 .
	<ul style="list-style-type: none"> • Shift indicator light always On or Off. 		GO to Pinpoint Test Step KL1 .
	<ul style="list-style-type: none"> • A/C does not cut-off under WOT conditions. 		GO to Pinpoint Test Step KM1 .
	<ul style="list-style-type: none"> • Poor performance, sluggish detonation. 	Boost control not functioning properly ▶	GO to Pinpoint Test Step KN1 .

Electrical Schematic

2.3L EFI TURBO



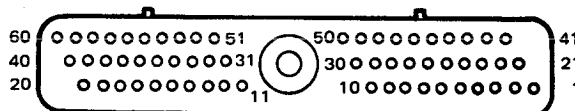
EEC-IV Module Connector Pin Usage

2.3L EFI TURBO

MUSTANG AND SVO MUSTANG

Pin	Circuit	Wire Color	Application	Abbreviations
1	37	Y	Keep Alive Power	KAPWR
4	11	DG/Y	Ignition Diagnostic Monitor	IDM
7	354	LG/Y	Engine Coolant Temperature	ECT
10	347	BK/Y	A/C Clutch	ACC
16	259	BK/O	Ignition Ground	IGN. GND.
17	382	Y/BK	Self-Test Output	STO
20	57	BK	Case Ground	CSE. GND.
21	67	GY/W	Idle Speed Control	ISC
22	97	T/LG	Fuel Pump Control	FP
23	310	Y/R	Knock Sensor	KS
25	357	LG/P	Vane Air Temperature	VAT
26	351	O/W	Voltage Reference	V. REF.
29	94	DG/P	Exhaust Gas Oxygen Sensor	EGO
30	376	Y/R	Neutral Drive Switch	NDS
30	376	Y/R	Octane Switch (SVO)	OCT. SW.
32	464	BK/P	Boost Control	BOOST
34	305	LB/P	Data Output Link	DOL
35	362	Y	EGR Shut-Off	EGR S/O
36	324	Y/LG	Spark Output	SPOUT
37	361	R	Vehicle Power	V PWR
40	57	BK	Battery Ground	BATT. GND.
43	200	W/BK	Vane Air Flow	VAF
45	358	LG/BK	Barometric Pressure	BP
46	359	BK/W	Signal Return	SIG. RET.
47	355	DG/LG	Throttle Position Sensor	T.P.
48	209	W/R	Self-Test Input	STI
49	89	O	EGO Ground	EGO GND.
54	73	O/LB	W.O.T. A/C Cut-Off	WAC
56	349	DB	Profile Ignition Pick-Up	PIP
57	361	R	Vehicle Power	V PWR
58	95	T/R	Injector Bank 1	INJ 1
59	96	T/O	Injector Bank 2	INJ 2
60	57	BK	Battery Ground	BATT. GND.

Pin locations given for reference only. Probing 60 pin connector with DVOM probe will result in permanent damage to the pin connectors. Always probe as directed, using the Breakout Box.



CA8337-B

EEC-IV Module Connector Pin Usage

**2.3L EFI
TURBO**

THUNDERBIRD AND XR-7

Pin	Circuit	Wire Color	Application	Abbreviations
1	37	Y	Keep Alive Power	KAPWR
4	11	DG/Y	Ignition Diagnostic Monitor	IDM
7	354	LG/Y	Engine Coolant Temperature	ECT
10	348	LG/P	A/C Clutch	ACC
16	259	BK/O	Ignition Ground	IGN. GND.
17	382	Y/BK	Self-Test Output	STO
20	60	BK/LG	Case Ground	CSE. GND.
21	68	O/BK	Idle Speed Control	ISC
22	97	T/LG	Fuel Pump Control	FP
23	310	Y/R	Knock Sensor	KS
25	357	LG/P	Vane Air Temperature	VAT
26	351	O/W	Voltage Reference	V. REF.
29	94	DG/P	Exhaust Gas Oxygen Sensor	EGO
30	32	R/LB	Neutral Drive Switch (ATX)	NDS
30	60	BK/LG	Neutral Drive Switch (MTX)	NDS
32	464	BK/P	Boost Control	BOOST
34	305	LB/P	Data Output Link	DOL
35	362	Y	EGR Shut-Off	EGR S/O
36	324	Y/LG	Spark Output	SPOUT
37	175	BK/Y	Vehicle Power	V. PWR.
40	60	BK/LG	Battery Ground	BATT. GND.
43	200	W/BK	Vane Air Flow	VAF
45	358	LG/BK	Barometric Pressure	BP
46	359	BK/W	Signal Return	SIG. RET.
47	355	DG/LG	Throttle Position Sensor	T.P.
48	209	W/R	Self-Test Input	STI
49	89	O	EGO Ground	EGO GND.
54	73	O/LB	W.O.T. A/C Cut-Off	WAC
56	349	DB	Profile Ignition Pick-Up	PIP
57	175	BK/Y	Vehicle Power	V. PWR.
58	95	T/R	Injector Bank 1	INJ. 1
59	96	T/O	Injector Bank 2	INJ. 2
60	60	BK/LG	Battery Ground	BATT. GND.

Pin locations given for reference only. Probing 60 pin connector with DVOM probe will result in permanent damage to the pin connectors. Always probe as directed, using the Breakout Box.

