

SECTION 20

EEC IV—Engine Supplement— Light Truck

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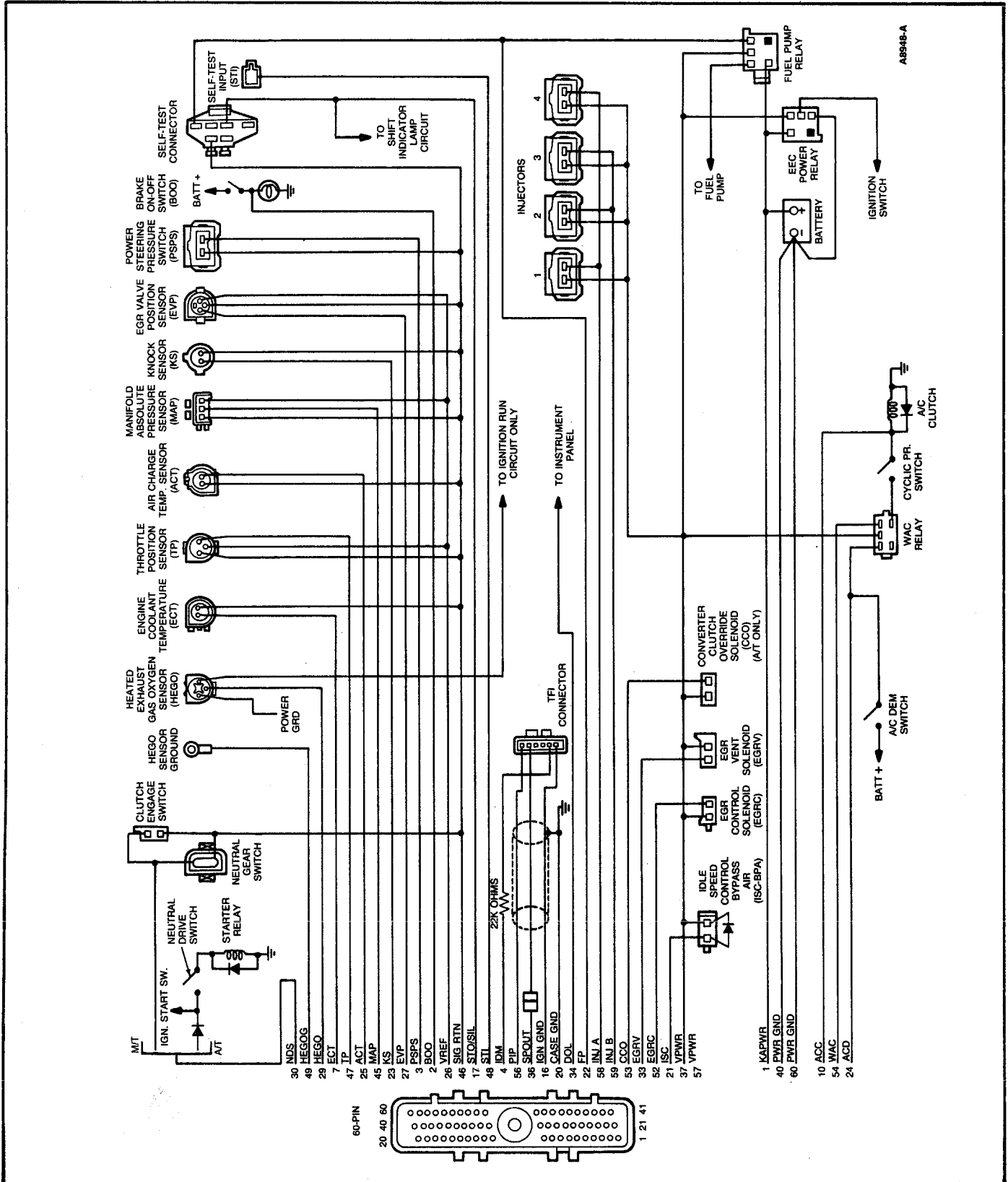
Diagnostic By Symptom

2.3L EFI

SYMPTOM	RESULT	ACTION TO TAKE
<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. ● Map 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. ● 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"> ● Lack of fast idle assist with A/C On. 		GO to Pinpoint Test Step FA1 .
<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"> ● Surges with A/C on at idle. 		GO to Pinpoint Test Step KM20 .
<ul style="list-style-type: none"> ● Stumble after hot re-start (HEGO). 		GO to Pinpoint Test Step HE21 .
<ul style="list-style-type: none"> ● Stalls during parking maneuvers. 		GO to Pinpoint Test Step FF3 .

Electrical Schematic

2.3L EFI



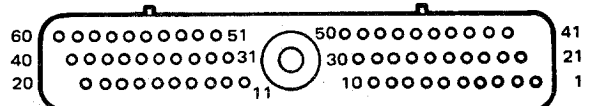
EEC-IV Module Connector Pin Usage

2.3L EFI

RANGER/BRONCO II

Pin	Circuit	Wire Color	Application	Abbreviations
1	37A	Y	Keep Alive Power	KAPWR
2	511	LG	Brake On/Off	BOO
3	330	Y-LG	Power Steering Pressure Switch	PSPS
4	11	DG-Y	Ignition Diagnostic Monitor	IDM
5	361C	R	Key Power	KPWR
7	354	LG-Y	Engine Coolant Temperature	ECT
10	347	BK-Y	A/C Clutch	ACC
16	57A	BK	Ignition Ground	IGN. GND.
17	201	T-R	Self-Test Output/Shift Indicator Light	STO/SIL
20	57	BK	Case Ground	CSE. GND.
21	67	GY-W	Idle Speed Control	ISC
22	97	T-LG	Fuel Pump	FP
23	99	LG-BK	Knock Sensor	KS
24	347	BK-Y	A/C Demand	ACD
25	310	Y-R	Air Charge Temperature	ACT
26	351	O-W	Reference Voltage	V. REF.
27	352	BR-LG	EGR Valve Position	EVP
29	94	DG-P	Heated Exhaust Gas Oxygen Sensor	HEGO
30	150	DG-W	Neutral Drive Switch (A/T)	NDS
30	200	W-BK	Neutral Drive Switch (M/T)	NDS
33	360	DG	Exhaust Gas Recirculation Vent	EGRV
34	305	LB-P	Data Output Link	DOL
36	324	Y-LG	Spark Output	SPOUT
37	361	R	Vehicle Power	V. PWR.
40	60A	BK-LG	Power Ground	PWR. GND.
45	356	DB-LG	Manifold Absolute Pressure	MAP
46	359	BK-W	Signal Return	SIG. RTN.
47	355	DG-LG	Throttle Position Sensor	T.P.
48	100	W-R	Self-Test Input	STI
49	89	O	Heated Exhaust Gas Oxygen Sensor Ground	HEGOG
52	362	Y	Exhaust Gas Recirculation Control	EGRC
53	237B	O-Y	Clutch Converter Override (A/T only)	CCO
54	331	R	W.O.T. A/C Cut Off	WAC
56	349	DB	Profile Ignition Pick-Up	PIP
57	361B	R	Vehicle Power	V. PWR.
58	96	T-O	Injector 1 (Bank 1)	INJ. 1
59	95	T-R	Injector 2 (Bank 2)	INJ. 2
60	60B	BK-LG	Power Ground	PWR. GRD.

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.



EEC-IV Module Connector PIN Usage

2.3L EFI

AEROSTAR

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2	810	R-LG	Brake On-Off	BOO
3	330	Y-LG	Power Steering Pressure Switch	PSPS
4	11	DG-Y	Ignition Diagnostic Monitor	IDM
5	361C	R	Key Power	KPWR
7	354	LG-Y	Engine Coolant Temperature	ECT
10	347	BK-Y	A/C Clutch	ACC
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