



97-22, *Publication Date: OCTOBER 27, 1997*

Delta Pressure Feedback EGR (DPFE) - Diagnostic Tips	Article No. 97-22-1
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FORD:

1994-97 MUSTANG, THUNDERBIRD
1995-97 CONTOUR, CROWN VICTORIA
1996-97 ESCORT, TAURUS

LINCOLN-MERCURY:

1990-97 TOWN CAR
1994-97 COUGAR
1995-97 CONTINENTAL, GRAND MARQUIS, MYSTIQUE
1996-97 SABLE, TRACER

LIGHT TRUCK:

1994-97 EXPLORER
1995-97 ECONOLINE, F-150-350 SERIES, WINDSTAR
1996-97 AEROSTAR
1997 EXPEDITION, MOUNTAINEER
1998 NAVIGATOR

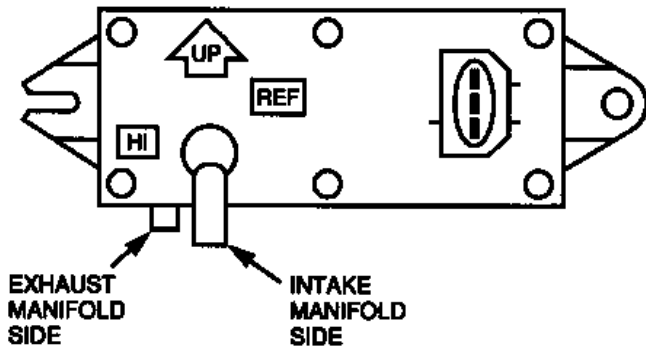
ISSUE:

The current DPFE sensor diagnostic reference values as published in the Powertrain Control/Emissions Diagnosis (PC/ED) Service Manual, and also accessed by either the Service Bay Diagnostic System (SBDS) or Service Bay Technical System (SBTS), can lead to the replacement of good DPFE sensors.

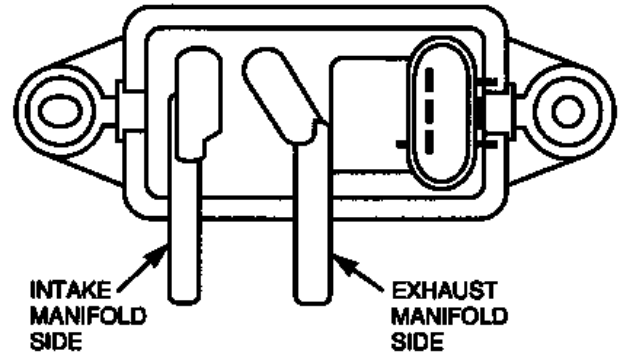
ACTION:

Use the following revised DPFE sensor voltage ranges for all (black plastic or aluminum) DPFE system applications when checking the PID (Parameter Identifier Display) value "DPFEGR" or when measuring the DPFE sensor input directly at the breakout box. Refer to Figure 1.

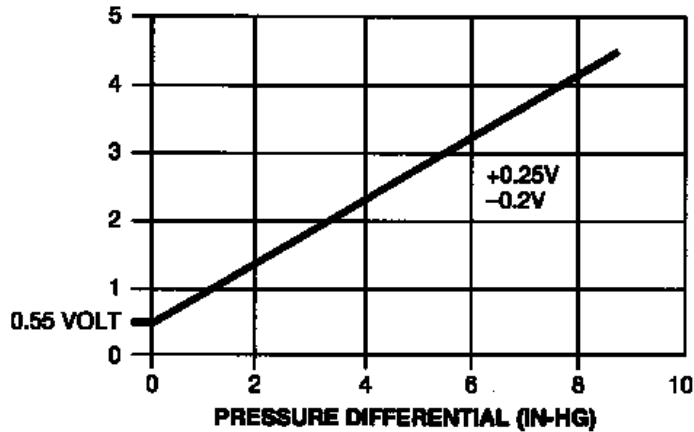
**ALUMINUM HOUSING
(0.55 OR 1.0 VOLT NULL OUTPUT)**



**PLASTIC HOUSING
(1.0 VOLT NULL OUTPUT)**



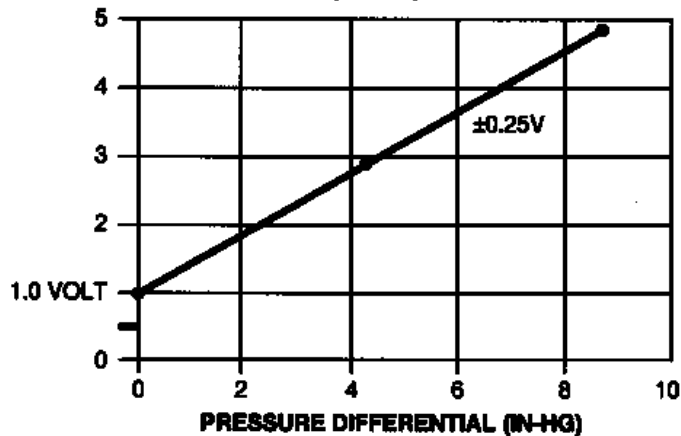
**0.55 VOLT NULL DPFE SENSOR
VOLTAGE OUTPUT (VOLTS)**



0.55 VOLT NULL DPFE SENSOR DATA

DIFFERENTIAL PRESSURE			Volts
IN-H ₂ O	In-Hg	kPa	
120	8.83	29.81	4.66
90	6.62	22.36	3.64
60	4.41	14.90	2.61
30	2.21	7.46	1.58
0	0	0	0.55

**1.0 VOLT NULL DPFE SENSOR
VOLTAGE OUTPUT (VOLTS)**



1.0 VOLT NULL DPFE SENSOR DATA

DIFFERENTIAL PRESSURE			Volts
IN-H ₂ O	In-Hg	kPa	
116	8.56	28.9	4.95
58	4.3	14.4	2.97
0	0	0	1.0

Figure 1 - Article 97-22-1

NOTE:

THESE LISTED VOLTAGE RANGES SHOULD BE USED FOR ALL (BLACK PLASTIC OR ALUMINUM) DPFE SYSTEM APPLICATIONS WHENEVER CHECKING THE PID VALUE "DPFEGR" OR WHEN MEASURING THE DPFE SENSOR INPUT DIRECTLY AT THE BREAKOUT BOX.

TYPICAL DIAGNOSTIC REFERENCE VALUES MEASURED/PID VALUES						
Sensors/Inputs	PCM/Breakout Box Pin/PID only	KOEO	Hot Idle	48 Km/H (30 MPH)	88 Km/H (55 MPH)	Units Measured/PID
DPFEGR	65	0.2-1.3	0.2-1.3	0.2-4.5	0.2-4.5	DCV

OTHER APPLICABLE ARTICLES: NONE

WARRANTY STATUS: INFORMATION ONLY

OASIS CODES: 690000, 698298
