

DELTA PRESSURE FEEDBACK EGR (DPFE)— DIAGNOSTIC TIPS

Article No.
97-22-1

FORD: 1994-1997 MUSTANG, THUNDERBIRD
 1995-1997 CONTOUR, CROWN VICTORIA
 1996-1997 ESCORT, TAURUS
 1994-1997 EXPLORER
 1995-1997 ECONOLINE, F-150-350 SERIES, WINDSTAR
 1996-1997 AEROSTAR
 1997 EXPEDITION

LINCOLN: 1990-1997 TOWN CAR
 1995-1997 CONTINENTAL
 1998 NAVIGATOR

MERCURY: 1994-1997 COUGAR
 1995-1997 GRAND MARQUIS, MYSTIQUE
 1996-1997 SABLE, TRACER
 1997 MOUNTAINEER

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.

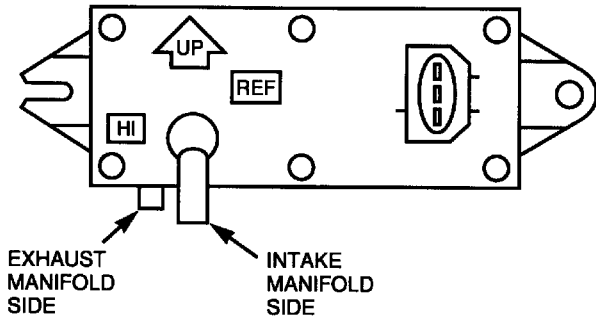
NOTE

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.

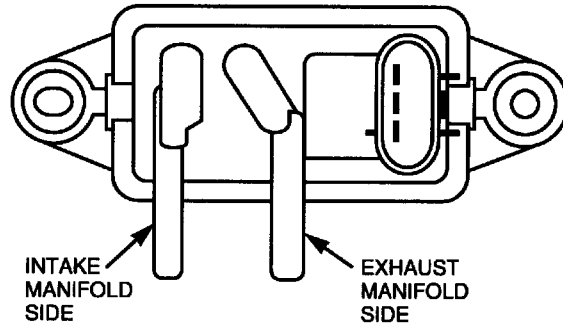
TYPICAL DIAGNOSTIC REFERENCE VALUES						
Sensors/Inputs	PCM/Breakout Box Pin/PID only	MEASURED/PID VALUES				
		KOEO	Hot Idle	48 Km/H (30 MPH)	88 Km/H (55 MPH)	Units Measured/PID
DPFEGR	65	0.2-1.3	0.2-1.3	0.2-4.5	0.2-4.5	DCV

OTHER APPLICABLE ARTICLES: NONE
WARRANTY STATUS: INFORMATION ONLY
OASIS CODES: 690000, 698298

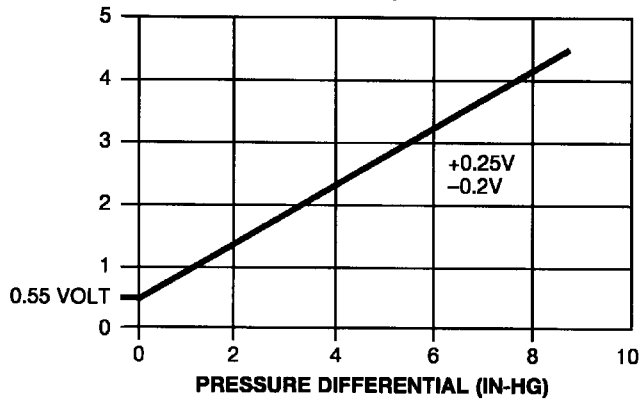
**ALUMINUM HOUSING
(0.55 OR 1.0 VOLT NULL OUTPUT)**



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



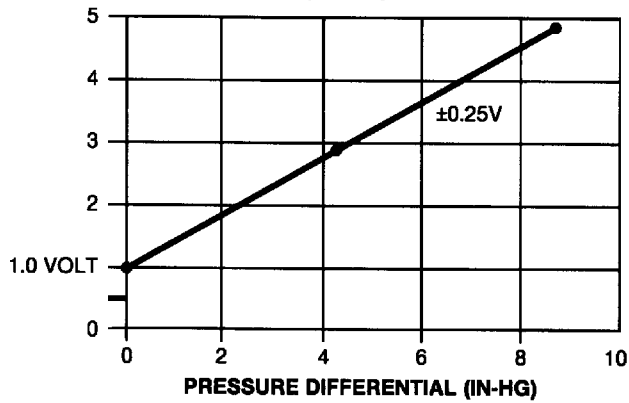
**0.55 VOLT NULL DPFE SENSOR
VOLTAGE OUTPUT (VOLTS)**



0.55 VOLT NULL DPFE SENSOR DATA

DIFFERENTIAL PRESSURE			Volts
IN-H2O	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-H2O	In-Hg	kPa	
116	8.56	28.9	4.95
58	4.3	14.4	2.97
0	0	0	1.0

TB-5291-A

Figure 1 - Article 97-22-1