

- **FUEL SYSTEM—EFI ENGINES—AIR BY-PASS VALVE REPLACEMENT PART INOPERATIVE**
- **IDLE—ROUGH—REPLACEMENT AIR BY-PASS VALVE INOPERATIVE**

**Article No.
89-24-4**

FORD: 1983-88 ESCORT, EXP, THUNDERBIRD
1984-88 MUSTANG
1986-88 CROWN VICTORIA, TAURUS
1988 TEMPO

LINCOLN-MERCURY: 1983 LN7
1983-86 LYNX
1983-88 COUGAR
1984-86 CAPRI
1986-88 CONTINENTAL, GRAND MARQUIS, MARK VII, SABLE,
TOWN CAR
1988 TOPAZ

MERKUR: 1985-88 XR4Ti
1988 SCORPIO

LIGHT TRUCK: 1985-88 BRONCO, F-150, F-250, RANGER
1986-88 AEROSTAR, BRONCO II, ECONOLINE
1987-88 F-350
1988 F SUPER DUTY

ISSUE: A rough idle created when the air by-pass valve is replaced may be caused by a revision made to the valve's wiring harness.

Vehicles built before the 1989 model year had a diode in the air by-pass valve wiring harness. The new replacement valves have a 3D marking on the plastic portion of the solenoid, above the connector cap, Figure 1. They have a diode in the air by-pass valve.

On the air by-pass valves used on vehicles built before the 1989 model year, the positive and negative leads are not important to the operation of the valve. However, the polarity on the new replacement air by-pass valve is important because if the wiring harness is reversed the air by-pass valve will not work.

ACTION: Reverse the wires in the air by-pass valve connector and retest the valve. Refer to the following EFI Engine Application Chart for engines using these air by-pass valves.

EFI ENGINE APPLICATION CHART		
YEAR	ENGINE	VEHICLES
1983	1.6L	Escort/Lynx, LN7/EXP
	2.3L T/C	Thunderbird/Cougar
1984	1.6L	Escort/Lynx, EXP
	1.6L T/C	EXP
	2.3L T/C	Mustang/Capri/SVO, Thunderbird/Cougar
1985	1.6L	Escort/Lynx, EXP
	1.6L T/C	EXP
	1.9L	Escort/Lynx, EXP
	2.3L OHC	Mustang, Ranger
	2.3L T/C	Thunderbird/Cougar, SVO, XR4Ti
	5.0L	F-Series/Bronco
1986	1.9L	Escort/Lynx, EXP
	2.3L OHC	Mustang, Ranger, Aerostar
	2.3L T/C	Thunderbird/Cougar, SVO, XR4Ti
	2.9L	Ranger, Bronco II
	3.0L	Taurus/Sable, Aerostar
	5.0L	Thunderbird/Cougar, Crown Victoria/Grand Marquis, Mark VII, Continental, Lincoln Town Car, E-Series, F-Series/Bronco
	5.0L H.O.	Mustang/Capri, Mark VII LSC

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EFI ENGINE APPLICATION CHART		
YEAR	ENGINE	VEHICLES
1987	1.9L	Escort, EXP
	2.3L OHC	Mustang, Ranger
	2.3L T/C	Thunderbird/XR4Ti
	2.9L	Ranger/Bronco II
	3.0L	Taurus/Sable, Aerostar
	4.9L	E-Series, F-Series/Bronco
	5.0L	Thunderbird/Cougar, Crown Victoria/Grand Marquis, Lincoln Town Car, Continental, E-Series, F-Series/Bronco
	5.0L H.O.	Mustang, Mark VII LSC
1988	1.9L	Escort, EXP
	2.3L OHC	Mustang, Ranger
	2.3L T/C	Thunderbird/Cougar, XR4Ti
	2.3L HSC	Tempo/Topaz
	2.9L	Scorpio, Ranger/Bronco II
	3.0L	Taurus/Sable, Aerostar
	3.8L	Thunderbird/Cougar/Continental
	4.9L	E-Series, F-Series/Bronco
	5.0L	Thunderbird/Cougar, Lincoln Town Car, Crown Victoria/Grand Marquis, E-Series, F-Series/Bronco
	5.0L H.O.	Mustang, Mark VII LSC
	5.8L	E-Series, F-Series/Bronco
	7.5L	E-Series, F-Series

OTHER APPLICABLE ARTICLES: None
WARRANTY STATUS: INFORMATION ONLY
OASIS CODES: 620800

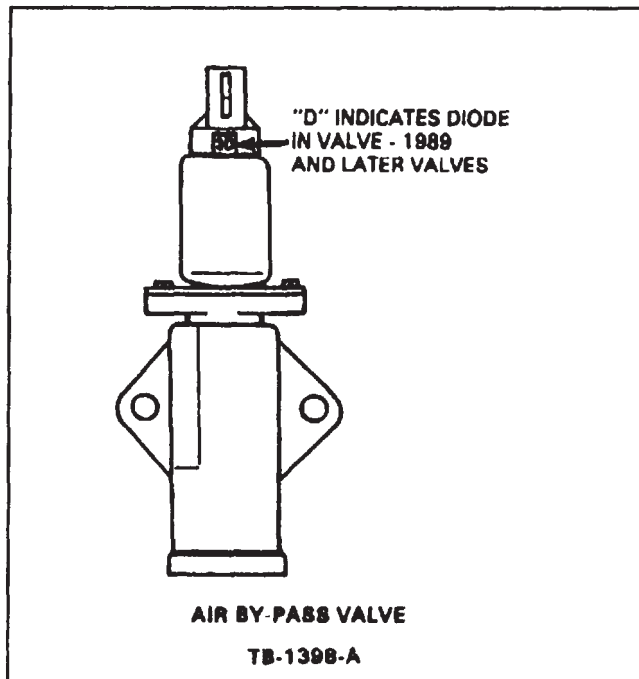


Figure 1 - Article 89-24-4