### State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-10-646 Relating to Certification of New Motor Vehicles

#### FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year Ford Motor Company exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: TFM4.6V8G1EK <u>Displacement</u>: 4.6 Liters (280 Cubic Inches)

### Exhaust Emission Control Systems and Special Features:

Dual Three Way Catalytic Converters Three Way Catalytic Converter Dual Heated Oxygen Sensors (two) Exhaust Gas Recirculation Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards for this engine family in grams per mile are:

Miles	Non-Methane	Carbon	Nitrogen	Carbon	
	Hydrocarbons	<u>Monoxide</u>	_Oxides_	<u>Monoxide (20°F)</u>	
50,000	0.25	3.4	0.4	10.0	
100,000	0.31	4.2	0.6	n/a	

The certification exhaust emission values for this engine family in grams per mile are:

<u>Miles</u>	Non-Methane	Carbon	Nitrogen	Carbon
	<u>Hydrocarbons</u>	<u>Monoxide</u>	Oxides	<u>Monoxide (20°F)</u>
50,000	0.11	2.0	0.1	4.4
100.000	0.15	2.9	0.2	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 13 th day of July 1995.

R. B. Summerfield

Assistant Division Chief Mobile Source Division

E.O.# A-10-646

## 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: FORD MOTOR COMPANY

313 390 1243

Eng. Family: TFM4.6V8G1EK

Pass Car: X (PC) Light-Duty Truck:\_\_(T1/T2)

Med-Duty Vehicle:\_\_\_ (M1/M2/M3/M4/M5)

Standards Type: T-1 (Tier 0/1, AB965, TLEV, LEV, ULEV) Vehicle Type: (FFV, HEV(type A/B/C)\_

Fuel Type: Gasoline

Evaporative Family: TFM1045AYPAA

Engine Config: V-8

Liter (CID): 4.6L (280)

Engine: Front X Mid. \_\_ Rear\_\_\_

Drive: FWD\_\_\_ RWDX\_ 4WD-FT\_\_\_ 4WD-PT\_\_

Exhaust ECS & Special Features:(Incl. CARB, MFI) 2TWC/TWC/2HO2S(2)/EGR/SFI (Use abbreviations per SAE J1930 May91)

Engine Code (Cert Std.)	Vehicle Models (if coded \$66 attachment)	Trans, Type A-Automatic M-Manual	ETW	DPA	Ignition (ECM/PCM) Part No.	EGR System Part No.	Part No.	
618PR00A	COUGAR	A	4000	9.4 <sup>1</sup> 9.4 <sup>3</sup>	F6SF-DA	F6ZE-DA	F68C-BD	
618PR00A	THUNDERBIRD	A	4000	9.0 <sup>1</sup> 9.0 <sup>3</sup> 8.4 <sup>2</sup>	F6SF-DA	F8ZE-DA	F&SC-DD	

<sup>1</sup> WITH P215/70R15 TIRES

<sup>2</sup> WITH P225/60R16 TIRES

<sup>3</sup> WITH P205/70R15 TIRES

### 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer:	Ford Motor Com	pany	Exhau	ıst Eng	ine Family:	TFM4.6V8G1	<u>EK</u>
Evap Standard:	50K <u>X</u> U	seful Life with	R/L	<del></del>	Evap Family:	TFM1045A	YPAA
Exhaust Std: T	ier 0 Tier 1 <u>&gt;</u>	C TLEV _ LE	/ _ UL	.EV	ZEV; EP	A Tier 0 1	ier 1
	s): PC X LD						
	for Multi-Class f						
Exh Cert Fuel(s	s): Indo X Ph	2 Diesel:	: 13 C	CR 228	2 or 40 C	FR 86.113-90	_ or -94 _
	_	_ LPG _ O					
•	Dedicated F		<b>Q</b> 1.101	(4)	,, _ <del></del>		
Hybrid: Type	A B C _	, APU Cyc	le (e.g.	, Otto,	Diesel, Turbit	ne)	
	: <u>V-8</u>						
Engine: Front_	X Mid Rea	ar Drive	e: FWC	<u>X</u> F	RWD 4WD	-FT 4WD-	PT
Exhaust ECS (Use abbrevi	& Special Featur lations per SAE	es: <u>SFI/2HO2</u> J1930, Sep 91	2S(2)/E( )	GR/2T\	<u>NC/TWC</u>		
	Vehicle Models	A-Automatic M-Manual		:	Part No.	Part No.	Catalyst Part No.
(California)		12	A650_	-904	755F250	)	
618PRO5A	COUGAR	A	4000	9.4 <sup>*1</sup> 9.4 <sup>*2</sup>	F6SF-DB	F6SF-DA	F6SC-BD
618PRO5A	THUNDERBIRD	A	4000	9.0 <sup>*1</sup> 8.4 <sup>*2</sup> 9.0 <sup>*3</sup>	F6SF-DB	F6SF-DA	F6SF-BD

<sup>\*1</sup> P215/70R15 \*2 P225/60R16 \*3 P205/70R15

E.O.# A-10-646

#### 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Pass Car: X (PC) Light-Duty Truck:\_\_\_(T1/T2) Med-Duty Vehicle:\_\_\_ (M1/M2/M3/M4/M5)

Standards Type: T-1 (Tier 0/1, AB965, TLEV, LEV, ULEV) Vehicle Type: (FFV, HEV(type A/B/C)\_

Fuel Type: Gasoline

Manufacturer: FORD MOTOR COMPANY

Evaporative Family: TFM1045AYPAA

Eng. Family: TFM4.6V8G1EK

Engine Config: V-8 Liter (CID): 4.6L (280)

Engine: Front X Mid. Rear Drive: FWD RWDX 4WD-FT 4WD-PT

Exhaust ECS & Special Features:(incl. CARB, MFI) 2TWC/TWC/2HO2S(2)/EGR/SFI (Use abbreviations per SAE J1930 May91)

Engine Code (Cert Std.)	Vehicle Models (if coded see	Trans. Type A-Automatic		(ECM/PCM)	EGR System	Catalyst		
	attachment)	M-Manual			Part No.	Part No.	Part No.	
					-12A650-	-9D475- - <b>9D477</b> -	-5F250-	
618PR06A	COUGAR	A	4000	9.4 <sup>1</sup> 9.4 <sup>3</sup>	F6SF-DC	F6ZE-DA F6SE-CF	F6SC-BD	
618PR06A	THUNDERBIR	D A	4000	9.0 <sup>1</sup> 9.0 <sup>3</sup> 8.4 <sup>2</sup>	F6SF-DC	F6ZE-DA F6SE-CF	F6SC-BD	

REVISED:

<sup>1</sup> WITH P215/70R15 TIRES

<sup>&</sup>lt;sup>2</sup> WITH P225/60R16 TIRES

<sup>3</sup> WITH P205/70R15 TIRES

EGR

Catalyst

### 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Eng. Family: TFM4.6V8G1EK Manufacturer: FORD MOTOR COMPANY Med-Duty Vehicle: (M1/M2/M3/M4/M5) Pass Car: X (PC) Light-Duty Truck: (T1/T2)

Standards Type: T-1 (Tier 0/1, AB965, TLEV, LEV, ULEV) Vehicle Type: (FFV, HEV(type A/B/C)\_

Evaporative Family: TFM1045AYPAA Fuel Type: Gasoline

Liter (CID): 4.6L (280) Engine Config: V-8

Drive: FWD\_\_\_ RWDX\_ 4WD-FT\_\_\_ 4WD-PT\_\_\_ Engine: Front X Mid. Rear\_\_\_

Exhaust ECS & Special Features:(incl. CARB, MFI) 2TWC/TWC/2HO2S(2)/EGR/SFI (Use abbreviations per SAE J1930 May91)

Engine Code Vehicle Models Trans. Type ETW DPA Ignition (ECM/PCM) System A-Automatic (Cert Std.) (if coded see Part No. Part No. Part No. M-Manual attachment) -9D475--5F250--12A650--9D477-9.41 F6SF-DC F6ZE-DA F6SC-BD 4000 Α 618PR10A COUGAR 9.4<sup>3</sup> F6SE-CF  $9.0^{1}$ F6SF-DC F6ZE-DA F6SC-BD 4000 THUNDERBIRD A 618PR10A  $9.0^{3}$ F6SE-CF 8.4<sup>2</sup>

**REVISED:** 

WITH P215/70R15 TIRES

<sup>&</sup>lt;sup>2</sup> WITH P225/60R16 TIRES

<sup>3</sup> WITH P205/70R15 TIRES

### 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: FORD MOTOR COMPANY

Eng. Family: TFM4.6V8G1EK \_\_\_\_

Pass Car: X (PC) Light-Duty Truck: \_\_(T1/T2) Med-Duty Vehicle: \_\_ (M1/M2/M3/M4/M5)

Standards Type: T-1 (Tier 0/1, AB965, TLEV, LEV, ULEV) Vehicle Type: (FFV, HEV(type A/B/C)\_

Fuel Type: Gasoline

Evaporative Family: TFM1045AYPAA

Engine Config: V-8

Liter (CID): 4.6L (280)

Engine: Front X Mid. Rear Drive: FWD RWDX 4WD-FT 4WD-PT

Exhaust ECS & Special Features: (incl. CARB, MFI) 2TWC/TWC/2HO2S(2)/EGR/SFI (Use abbreviations per SAE J1930 May91)

Engine Code (Cert Std.)	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual		DPA	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalyst Part No.
					-12A650-	-9D475- - <b>9D477-</b>	-5F250-
618PR10A	COUGAR	A	4000	9.4 <sup>1</sup> 9.4 <sup>3</sup> 8.7 <sup>2</sup>	F6SF-DC	F6ZE-DA F <b>6SE-CF</b>	F6SC-BD
618PR10A	THUNDERBIRI	D A	4000	9.0 <sup>1</sup> 9.0 <sup>3</sup> 8.4 <sup>2</sup>	F6SF-DC	F6ZE-DA F6SE-CF	F6SC-BD

<sup>&</sup>lt;sup>1</sup> WITH P215/70R15 TIRES

<sup>&</sup>lt;sup>2</sup> WITH P225/60R16 TIRES

<sup>3</sup> WITH P205/70R15 TIRES