

File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-647
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: TFM4.6V8G1FK Displacement: 4.6 Liters (280 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

- Dual Three Way Catalytic Converters (two)
- 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:

<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon 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>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.11	1.8	0.2	4.9
100,000	0.15	2.6	0.3	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 20th day of July 1995.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: FORD MOTOR COMPANYEng. Family: TFM4.6V8G1FKPass 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: GasolineEvaporative Family: TFM1045AYMAAEngine Config: V-8Liter (CID): 4.6L (280)Engine: Front X Mid. Rear Drive: FWD RWD X 4WD-FT 4WD-PT Exhaust ECS & Special Features: (incl. CARB, MFI) 2TWC(2)/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	ETW	DPA	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalyst Part No.
619PR00N	MUSTANG CONV	M	3750*	7.7 ¹ 7.0 ²	F6ZF-FA	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	7.7 ¹ 7.0 ²			
619PR00A	MUSTANG CONV	M	3875	8.5 ¹ 7.7 ²	F6ZF-FA	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	8.5 ¹ 7.7 ²			
619TR00N	MUSTANG CONV	M	3750*	7.7 ¹ 7.0 ²	F6ZF-LA	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	7.7 ¹ 7.0 ²			
619TR00A	MUSTANG CONV	M	3875	8.5 ¹ 7.7 ²	F6ZF-LA	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	8.5 ¹ 7.7 ²			
620PRO0A	MUSTANG CONV	A	3875	8.7 ¹ 7.9 ²	F6ZF-HA	F6ZE-CA	F6ZC-LL
620PRO0N	MUSTANG CONV	A	3875	7.9 ¹ 7.2 ²			
620PR00N	MUSTANG COUPE	A	3625*	7.9 ¹ 7.2 ²			
620PR00A	MUSTANG COUPE	A	3750	8.7 ¹ 7.9 ²			
620TR00A	MUSTANG CONV	A	3875	8.7 ¹ 7.9 ²	F6ZF-NA	F6ZE-CA	F6ZC-LL
620TROON	MUSTANG CONV	A	3875	7.9 ¹ 7.2 ²			
620TR00N	MUSTANG COUPE	A	3625*	7.9 ¹ 7.2 ²			
620TR00A	MUSTANG COUPE	A	3750	8.7 ¹ 7.9 ²			

¹ WITH P225/55ZR16 TIRES * Ford elects under 86.084-26(A) to conduct certification tests at the
² WITH 245/45ZR17 TIRES next higher ETW.

ENGINE FAMILY: TFM4.6V8G1FK
ISSUED: 6/14/95
REVISED:

20.09.17.02 - 1

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: FORD MOTOR COMPANYEng. Family: TFM4.6V8G1FKPass 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: GasolineEvaporative Family: TFM1045AYMAAEngine Config: V-8Liter (CID): 4.6L (280)Engine: Front X Mid. Rear Drive: FWD RWD 4WD-FT 4WD-PT Exhaust ECS & Special Features:(incl. CARB, MFI) 2TWC(2)/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	ETW	DPA	Ignition (ECM/PCM) Part No. -12A650-	EGR System Part No. -9D475-	Catalyst Part No. -5F250-
619PR05N	MUSTANG CONV	M	3750*	7.7 ¹ 7.0 ²	F6ZF-FB	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	7.7 ¹ 7.0 ²			
619PR05A	MUSTANG CONV	M	3875	8.5 ¹ 7.7 ²	F6ZF-FB	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	8.5 ¹ 7.7 ²			
619TR05N	MUSTANG CONV	M	3750*	7.7 ¹ 7.0 ²	F6ZF-LB	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	7.7 ¹ 7.0 ²			
619TR05A	MUSTANG CONV	M	3875	8.5 ¹ 7.7 ²	F6ZF-LB	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	8.5 ¹ 7.7 ²			
620PRO5A	MUSTANG CONV	A	3875	8.7 ¹ 7.9 ²	F6ZF-HB	F6ZE-CA	F6ZC-LL
620PRO5N	MUSTANG CONV	A	3875	7.9 ¹ 7.2 ²			
620PR05N	MUSTANG COUPE	A	3625*	7.9 ¹ 7.2 ²			
620PR05A	MUSTANG COUPE	A	3750	8.7 ¹ 7.9 ²			
620TR05A	MUSTANG CONV	A	3875	8.7 ¹ 7.9 ²	F6ZF-NB	F6ZE-CA	F6ZC-LL
620TRO5N	MUSTANG CONV	A	3875	7.9 ¹ 7.2 ²			
620TR05N	MUSTANG COUPE	A	3625*	7.9 ¹ 7.2 ²			
620TR05A	MUSTANG COUPE	A	3750	8.7 ¹ 7.9 ²			

¹ WITH P225/55ZR16 TIRES * Ford elects under 86.084-26(A)II to conduct certification tests at the
² WITH 245/45ZR17 TIRES next higher ETW.

ENGINE FAMILY: TFM4.6V8G1FK
ISSUED: 8/2/95
REVISED:

20.09.17.02 - 2

R/C 4.6-2V-007

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: FORD MOTOR COMPANY Eng. Family: TFM4.6V8G1FK
 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: TFM1045AYMAA

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

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

Exhaust ECS & Special Features:(incl. CARB, MFI) 2TWC(2)/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	ETW	DPA	Ignition (ECM/PCM) Part No. -12A650-	EGR System Part No. -9D475-	Catalyst Part No. -5F250-
619PR06N	MUSTANG CONV	M	3750*	7.7 ¹ 7.0 ²	F6ZF-FC	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	7.7 ¹ 7.0 ²			
619PR06A	MUSTANG CONV	M	3875	8.5 ¹ 7.7 ²	F6ZF-FC	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	8.5 ¹ 7.7 ²			
619TR06N	MUSTANG CONV	M	3750*	7.7 ¹ 7.0 ²	F6ZF-LC	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	7.7 ¹ 7.0 ²			
619TR06A	MUSTANG CONV	M	3875	8.5 ¹ 7.7 ²	F6ZF-LC	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	8.5 ¹ 7.7 ²			
620PRO6A	MUSTANG CONV	A	3875	8.7 ¹ 7.9 ²	F6ZF-HC	F6ZE-CA	F6ZC-LL
620PRO6N	MUSTANG CONV	A	3875	7.9 ¹ 7.2 ²			
620PR06N	MUSTANG COUPE	A	3625*	7.9 ¹ 7.2 ²			
620PR06A	MUSTANG COUPE	A	3750	8.7 ¹ 7.9 ²			
620TR06A	MUSTANG CONV	A	3875	8.7 ¹ 7.9 ²	F6ZF-NC	F6ZE-CA	F6ZC-LL
620TRO6N	MUSTANG CONV	A	3875	7.9 ¹ 7.2 ²			
620TR06N	MUSTANG COUPE	A	3625*	7.9 ¹ 7.2 ²			
620TR06A	MUSTANG COUPE	A	3750	8.7 ¹ 7.9 ²			

¹ WITH P225/55ZR16 TIRES * Ford elects under 86.084-26(A)II to conduct certification tests at the

² WITH 245/45ZR17 TIRES next higher ETW.

ENGINE FAMILY: TFM4.6V8G1FK
 ISSUED: 8/2/95
 REVISED:

20.09.17.02 - 3

R/C 4.6-2V-012

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: FORD MOTOR COMPANY Eng. Family: TFM4.6V8G1FK
 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: TFM1045AYMAA
 Engine Config: V-8 Liter (CID): 4.6L (280)
 Engine: Front X Mid. Rear Drive: FWD RWD X 4WD-FT 4WD-PT
 Exhaust ECS & Special Features:(incl. CARB, MFI) 2TWC(2)/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	ETW	DPA	Ignition (ECM/PCM) Part No. -12A650-	EGR System Part No. -9D475-	Catalyst Part No. -5F250-
619PR07N	MUSTANG CONV	M	3750*	7.7 ¹ 7.0 ²	F6ZF-FD	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	7.7 ¹ 7.0 ²			
619PR07A	MUSTANG CONV	M	3875	8.5 ¹ 7.7 ²	F6ZF-FD	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	8.5 ¹ 7.7 ²			
619TR07N	MUSTANG CONV	M	3750*	7.7 ¹ 7.0 ²	F6ZF-LD	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	7.7 ¹ 7.0 ²			
619TR07A	MUSTANG CONV	M	3875	8.5 ¹ 7.7 ²	F6ZF-LD	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	8.5 ¹ 7.7 ²			
620PRO7A	MUSTANG CONV	A	3875	8.7 ¹ 7.9 ²	F6ZF-HD	F6ZE-CA	F6ZC-LL
620PRO7N	MUSTANG CONV	A	3875	7.9 ¹ 7.2 ²			
620PR07N	MUSTANG COUPE	A	3625*	7.9 ¹ 7.2 ²			
620PR07A	MUSTANG COUPE	A	3750	8.7 ¹ 7.9 ²			
620TR07A	MUSTANG CONV	A	3875	8.7 ¹ 7.9 ²	F6ZF-ND	F6ZE-CA	F6ZC-LL
620TRO7N	MUSTANG CONV	A	3875	7.9 ¹ 7.2 ²			
620TR07N	MUSTANG COUPE	A	3625*	7.9 ¹ 7.2 ²			
620TR07A	MUSTANG COUPE	A	3750	8.7 ¹ 7.9 ²			

¹ WITH P225/55ZR16 TIRES * Ford elects under 86.084-26(A)II to conduct certification tests at the
² WITH 245/45ZR17 TIRES next higher ETW.

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Engine Code (Cert Std.)	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	ETW	DPA	Ignition (ECM/PCM) Part No. -12A650-	EGR System Part No. -9D475-	Catalyst Part No. -5F250-
619PR10N	MUSTANG CONV	M	3750*	7.7 ¹ 7.0 ²	F6ZF-FD	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	7.7 ¹ 7.0 ²			
619PR10A	MUSTANG CONV	M	3875	8.5 ¹ 7.7 ²	F6ZF-FD	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	8.5 ¹ 7.7 ²			
619TR10N	MUSTANG CONV	M	3750*	7.7 ¹ 7.0 ²	F6ZF-LD	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	7.7 ¹ 7.0 ²			
619TR10A	MUSTANG CONV	M	3875	8.5 ¹ 7.7 ²	F6ZF-LD	F6ZE-CA	F6ZC-LL
	MUSTANG COUPE	M	3625	8.5 ¹ 7.7 ²			
620PR10A	MUSTANG CONV	A	3875	8.7 ¹ 7.9 ²	F6ZF-HD	F6ZE-CA	F6ZC-LL
620PR10N	MUSTANG CONV	A	3875	7.9 ¹ 7.2 ²			
620PR10N	MUSTANG COUPE	A	3625*	7.9 ¹ 7.2 ²			
620PR10A	MUSTANG COUPE	A	3750	8.7 ¹ 7.9 ²			
620TR10A	MUSTANG CONV	A	3875	8.7 ¹ 7.9 ²	F6ZF-ND	F6ZE-CA	F6ZC-LL
620TR10N	MUSTANG CONV	A	3875	7.9 ¹ 7.2 ²			
620TR10N	MUSTANG COUPE	A	3625*	7.9 ¹ 7.2 ²			
620TR10A	MUSTANG COUPE	A	3750	8.7 ¹ 7.9 ²			

¹ WITH P225/55ZR16 TIRES * Ford elects under 86.084-26(A)II to conduct certification tests at the
² WITH 245/45ZR17 TIRES next higher ETW.

ENGINE FAMILY: TFM4.6V8G1FK
ISSUED: 10/30/95
REVISED:

20.09.17.02 - 5

R/C 4.6-2V-023