

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-670  
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 Ford Motor Company 1996 model-year exhaust emission control systems are certified as described below for medium-duty vehicles:

Fuel Type: Gasoline

Engine Family: TFM5.8H8G1EK Displacement: 5.8 Liters (351 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

- Three Way Catalytic Converters (two)
- Dual Heated Oxygen Sensors
- Heated Oxygen Sensor
- 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>Test Weight (lbs.)</u>	<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
3751-5750	50,000	0.32	4.4	0.7	12.5
	120,000	0.46	6.4	0.98	n/a

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

<u>Test Weight (lbs.)</u>	<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
3751-5750	50,000	0.17	2.2	0.1	2.7
	120,000	0.23	2.7	0.11	n/a

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.).

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.

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<sup>th</sup> day of July 1995.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

SDS

E.O.# A-10-670

1996 MODEL YEAR CERTIFICATION REVIEW SHEET  
EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS  
PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: TFM5.8H8G1EK (T5.8H)

Engine Code Types: CA X 49S 50S Evaporative Emissions Family: TFM1045AYMBB

Exh Std: Tier-0\_\_\_ Tier-1 X TLEV\_\_\_ LEV\_\_\_ ULEV\_\_\_ ZEV\_\_\_ EPA TIER-0\_\_\_ TIER-1\_\_\_  
Evap Std: 50K X Useful Life with R/L\_\_\_ In-Use Exh Std: Full In Use\_\_\_ Alt In Use\_\_\_  
Veh Class(es): PC\_\_\_ LDT1\_\_\_ LDT2\_\_\_ MDV1\_\_\_ MDV2 X MDV3\_\_\_ MDV4\_\_\_ MDV5\_\_\_

Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1,MDV1,MDV2,MDV3,MDV4)

Exh Cert Fuel(s): Indo X Ph2\_\_\_ Diesel: 13 CCR 2282\_\_\_ or 40CFR 86.113-90\_\_\_ or -94\_\_\_  
M85\_\_\_ CNG\_\_\_ LPG\_\_\_ Other (specify)

Fuel Type(s): Dedicated\_\_\_ Flex Fuel\_\_\_ Dual-Fuel\_\_\_  
Gasoline X Diesel\_\_\_ M85\_\_\_ CNG\_\_\_ LPG\_\_\_ Other (specify)\_\_\_

Hybrid: Type A\_\_\_ B\_\_\_ C\_\_\_, APU Cycle (eg., Otto, Diesel, Turbine)\_\_\_

Engine Config V - 8 Displacement: 5.8L (351) Liters (Cubic Inches)

Valves/Cyl: 2 Rated HP: 210 @ 3600 RPM

Engine: Front X Mid\_\_\_ Rear\_\_\_ Drive: Fwd\_\_\_ RWD X 4WD-FT\_\_\_ 4WD-PT X

Exhaust Control System and Special Features TWC(2)HO2S, EGR, SFI, 2HO2S  
(Use abbreviations per SAE J1930 SEP91)

Engine Code (also list CA/49ST/50ST)	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
664TROON	BRONCO 4WD	A	5500	*	F6TF-ARA	F4TE-AA	F6TA-LB
664TROON	BRONCO 4WD	A	5500				
664TROON	BRONCO 4WD	A	5500				
664TROON	BRONCO 4WD	A	5500				
664TROOA	BRONCO 4WD	A	5500				
664TROOA	BRONCO 4WD	A	5500				
664TROOA	BRONCO 4WD	A	5500				
664TROOA	BRONCO 4WD	A	5500				
664TROOA	BRONCO 4WD	A	5500				
664SROON	F150 RKL 2WD	A	5250	*	F6TF-AAA	F4TE-AA	F6TA-MB
664SROON	F150 RKS 2WD	A	5250				
664SROOA	F150 RKL 2WD	A	5250				
664SROOA	F150 RKS 2WD	A	5250				
664SROON	F150 SKL 2WD	A	5500				
664SROON	F150 SKS 2WD	A	5250				
664SROOA	F150 SKL 2WD	A	5500				
664SROOA	F150 SKS 2WD	A	5250				
664SROON	F150 RKL 4WD	A	5500				
664SROON	F150 RKS 4WD	A	5250				
664SROOA	F150 RKL 4WD	A	5500				
664SROOA	F150 RKS 4WD	A	5250				
664SROON	F150 SKL 4WD	A	5500				
664SROON	F150 SKS 4WD	A	5500				
664SROOA	F150 SKL 4WD	A	5500				
664SROOA	F150 SKS 4WD	A	5500				
664SROON	F250 RKL 2WD	A	5500				
664SROOA	F250 RKL 2WD	A	5500				

Last Character  
in Engine Code: N = no A/C  
A = A/C  
Vehicle Model Codes:  
1st character:  
R = regular  
S = super  
C = club

\* See page 20.09.17.02 - 2

Engine Family: T5.8H

20.09.17.02 - 1

Date Issued: **JUN 01 1995**  
Revised:

2nd character:  
K = cab  
V = van  
W = wagon  
3rd character:  
S = short  
L = long

SDS

1996 VEHICLE COVERAGE GUIDELINES  
FOR VC#4 AND VC#5 TRUCK LINES

VEHICLE LINE	ETW LIMIT	NON A/C			A/C				
		CDT(Sec)	Code	DPA(HP)	TRLHP(HP)	CDT(Sec)	CODE	DPA(HP)	TRLHP(HP)
THE FOLLOWING VEHICLES ARE CERTIFIED USING LVW ETWs OR ALVW ETWs AND DPAs AS MARKED									
. F-150 4X2 (LD)	\$ 5250	16.64	(ADJ)	14.0	19.44	15.54	(ADJ)	15.4	20.82
- DE (E400)	\$ 5500	17.37	(ADJ)	14.0	19.52	16.21	(ADJ)	15.4	20.91
* Man Trans:	\$ 5250	16.89	(REG)	14.0	19.16	15.65	(REG)	15.4	20.68
- RE (MAZDA)	\$ 5500	17.56	(REG)	14.0	19.31	16.25	(REG)	15.4	20.86
. F-150 4X4 (LD)	4500	13.59	(C)	14.1	20.41	12.97	(C)	15.5	21.39
* Auto Trans:	4750	14.28	(C)	14.1	20.50	13.49	(C)	15.5	21.71
- DU >>4R70W (A00-EW)	5000	14.97	(REG)	14.1	20.59	14.01	(REG)	15.5	22.00
- DE (E400)	\$ 5250	15.66	(C)	14.1	20.67	14.53	(C)	15.5	22.28
* Man Trans:	4500	13.62	(C)	14.9	20.37	12.75	(C)	16.3	21.75
- RE (MAZDA)	4750	14.23	(REG)	14.9	20.58	13.33	(REG)	16.3	21.96
	5000	14.84	(C)	14.9	20.77	13.91	(C)	16.3	22.16
	\$ 5250	15.45	(C)	14.9	20.95	14.49	(C)	16.3	22.33
	\$ 5500	16.06	(REG)	14.9	21.11	15.07	(REG)	16.3	22.50
. F-250 4X2 (LD) (MAN TRANS)	5000	14.80	(R)	14.6	20.82	13.82	(R)	16.0	22.30
	5250	15.34	(R)	14.6	21.10	14.43	(R)	16.0	22.43
	\$ 5500	15.88	(R)	14.6	21.35	14.95	(R)	16.0	22.68
. F-250 4X2 (LD) (AUTO TRANS)	5000	14.10	(R)	14.9	21.86	13.38	(R)	16.3	23.03
	5250	14.74	(R)	14.9	21.95	13.92	(R)	16.3	23.25
	\$ 5500	15.39	(R)	14.9	22.03	14.47	(R)	16.3	23.43
. BRONCO 4X4 (LD)	5000	14.80	(C)	13.4	20.82	13.97	(C)	14.8	22.06
- P265/75R15 TIRE (ALL TRANS)	5250	15.29	(C)	13.4	21.17	14.40	(C)	14.8	22.47
	\$ 5500	15.79	(C)	13.4	21.47	14.83	(C)	14.8	22.86
. ALL OTHER TIRES (ALL TRANS)	5000	14.63	(REG)	13.9	21.07	13.80	(REG)	15.3	22.33
	5250	15.29	(C)	13.9	21.17	14.44	(C)	15.3	22.41
	\$ 5500	15.95	(C)	13.9	21.26	15.08	(C)	15.3	22.48

(E) = ESTIMATED (REG) = REGRESSED CDT  
 (C) = CERTIFICATION TEST POINT (ADJ) = DPA ADJUST (HIGHER THAN CERT DPA)  
 (CB) = ESTIMATED COOKBOOK DATA (MA) = MASS ADJUSTED CDT  
 TBD = NEW VEHICLE PROGRAM - NOT CERTIFIED TO DATE.  
 \* = Indicates Sub Heading \$ = Indicates ALVW CDT/DPA

Engine Family: T5.8H

20.09.17.02 - 2

Issue Date: **JUN 01 1995**  
 Revised: