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:

| Test Weight (lbs.) | Miles | Non-Methane Hydrocarbons | Carbon Monoxide | Nitrogen Oxides | Carbon Monoxide (20°F) |
|---|---|---|---|---|---|
| 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:

| Test Weight (lbs.) | Miles | Non-Methane Hydrocarbons | Carbon Monoxide | Nitrogen Oxides | Carbon Monoxide (20°F) |
|---|---|---|---|---|---|
| 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 13th 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 (specicy)
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. |
|---|---|---|---|---|---|---|---|
| 664TR00N | BRONCO 4WD | A | 5500 | * | F6TF-ARA | F4TE-AA | F6TA-LB |
| 664TR00N | BRONCO 4WD | A | 5500 | | | | |
| 664TR00N | BRONCO 4WD | A | 5500 | | | | |
| 664TR00N | BRONCO 4WD | A | 5500 | | | | |
| 664TR00A | BRONCO 4WD | A | 5500 | | | | |
| 664TR00A | BRONCO 4WD | A | 5500 | | | | |
| 664TR00A | BRONCO 4WD | A | 5500 | | | | |
| 664TR00A | BRONCO 4WD | A | 5500 | | | | |
| 664SR00N | F150 RKL 2WD | A | 5250 | * | F6TF-AAA | F4TE-AA | F6TA-MB |
| 664SR00N | F150 RKS 2WD | A | 5250 | | | | |
| 664SR00A | F150 RKL 2WD | A | 5250 | | | | |
| 664SR00A | F150 RKS 2WD | A | 5250 | | | | |
| 664SR00N | F150 SKL 2WD | A | 5500 | | | | |
| 664SR00N | F150 SKS 2WD | A | 5250 | | | | |
| 664SR00A | F150 SKL 2WD | A | 5500 | | | | |
| 664SR00A | F150 SKS 2WD | A | 5250 | | | | |
| 664SR00N | F150 RKL 4WD | A | 5500 | | | | |
| 664SR00N | F150 RKS 4WD | A | 5250 | | | | |
| 664SR00A | F150 RKL 4WD | A | 5500 | | | | |
| 664SR00A | F150 RKS 4WD | A | 5250 | | | | |
| 664SR00N | F150 SKL 4WD | A | 5500 | | | | |
| 664SR00N | F150 SKS 4WD | A | 5500 | | | | |
| 664SR00A | F150 SKL 4WD | A | 5500 | | | | |
| 664SR00A | F150 SKS 4WD | A | 5500 | | | | |
| 664SR00N | F250 RKL 2WD | A | 5500 | | | | |
| 664SR00A | 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
2nd character:
K = cab
V = van
W = wagon
3rd character:
S = short
L = long

* See page 20.09.17.02 - 2

Engine Family: T5.8H



Date Issued: JUN 01 1995
Revised:

SDS

E.O.#A-10-670

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

| VEHICLE LINE | ETW LIMIT | NON A/C CDT(Sec) | NON A/C Code | NON A/C DPA(HP) | NON A/C TRLHP(HP) | A/C CDT(Sec) | A/C CODE | A/C DPA(HP) | A/C 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 (E4OD) | $ 5500 | 17.37 | (ADJ) | 1[illegible] | 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 (AOD-EW) | 5000 | 14.97 | (REG) | 14.1 | 20.59 | 14.01 | (REG) | 15.5 | 22.00 |
| · DE (E4OD) | $ 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 | 5250 | 15.29 | (C) | 13.4 | 21.17 | 14.40 | (C) | 14.8 | 22.47 |
| (ALL TRANS) | $ 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



Issue Date: JUN 01 1995
Revised: