

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-671
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: TFM5.8J8G1EK 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</u> <u>(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Hydrocarbons</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Carbon</u> <u>Monoxide (20°F)</u>
5751-8500	50,000	0.39	5.0	1.1	12.5
	120,000	0.56	7.3	1.53	n/a

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

<u>Test Weight</u> <u>(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Hydrocarbons</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Carbon</u> <u>Monoxide (20°F)</u>
5751-8500	50,000	0.16	2.9	0.2	6.3
	120,000	0.22	3.5	0.20	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

~~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: TFM5.8J8G1EK (T5.8J)

Engine Code Types: CA X 49S___ 50S___ Evaporative Emissions Family: TFM1065AYMBB

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___ MDV3 X 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.
676RR00N	E250 SVL 2WD	A	7000	*	F6UF-PA	F4TE-AA	F6UA-NB
676RR00A	E250 SVL 2WD	A	7000				
676RR00N	E250 RVL 2WD	A	7000				
676RR00A	E250 RVL 2WD	A	7000				
664RR00N	E150 RV-CONV 2WD	A	6000	*	F6UF-MA	F4TE-AA	F6UA-NB
664RR00N	E150 RVL 2WD	A	6000				
664RR00A	E150 RV-CONV 2WD	A	6000				
664RR00A	E150 RVL 2WD	A	6000				
664RR00N	E150 CWL 2WD	A	6000				
664RR00A	E150 CWL 2WD	A	6500				
664RR00N	E250 RVL 2WD	A	6000				
664RR00N	E250 RV-CONV 2WD	A	6500				
664RR00A	E250 RVL 2WD	A	6000				
664RR00A	E250 RV-CONV 2WD	A	6500				
664RR00N	E250 SVL 2WD	A	6500				
664RR00N	E250 RV-CONV 2WD	A	6500				
664RR00A	E250 SVL 2WD	A	6500				
664RR00A	E250 RV-CONV 2WD	A	6500				

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 - 4

Engine Family: T5.8J

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Date Issued: 5-08-95
Revised:

SDS

Review Sheet for TFM5.8J8GIEK / TFM1065AYMBS cont.

E.O. #A-10-671

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.
676RR00N	E350 CWL 2WD	A	7500	*	F6UF-MA	F4TE-AA	F6UA-NB
676RR00A	E350 CWL 2WD	A	7500				
676RR00N	E350 SVL 2WD	A	7500				
676RR00A	E350 SVL 2WD	A	7500				
676RR00N	E350 SWL 12P 2WD	A	7500				
676RR00N	E350 SWL 15P 2WD	A	7500				
676RR00A	E350 SWL 12P 2WD	A	7500				
676RR00A	E350 SWL 15P 2WD	A	7500				
676RR00N	E350 RVL 2WD	A	7500				
676RR00N	E350 RVL 2WD	A	7500				

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in Engine Code:

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* See page 20.09.17.02 - 4

Engine Family: T5.8J

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E.O.# A-10-671

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: TFM5.8J8G1EK (T5.8J)

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 MDV3 X 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.
676SR00N 676SR00A	F350 CREW SRW 2WD F350 CREW SRW 2WD	A A	7500 7500	* *	F6TF-ADA	F4TE-AA	F6TA-MB
676TR00N 676TR00A 676TR00N 676TR00A	F250 RKL 2WD F250 RKL 2WD F250 SKL 2WD F250 SKL 2WD	A A A A	6500 6500 7000 7000	* * * *	F6TF-AEA	F4TE-AA	F6TA-MB
676SR00N 676SR00A 676SR00N 676SR00A	F350 CREW DRW 2WD ^{@@} F350 CREW DRW 2WD F350 RKL DRW 2WD F350 RKL DRW 2WD	A A A A	7500 8000 7500 7500	* * * *	F6TF-ADA	F4TE-AA	F6TA-MB
676TR00N 676TR00A 676TR00N 676TR00A	F250 RKL 4WD F250 RKL 4WD F250 SKL 4WD F250 SKL 4WD	A A A A	7000 7000 7000 7000	* * * *	F6TF-AEA	F4TE-AA	F6TA-MB
676SR00N 676SR00A	F350 CREW SRW 4WD [@] F350 CREW SRW 4WD	A A	7500 7500	* *	F6TF-ADA	F4TE-AA	F6TA-MB
676TR00N 676TR00A	F350 RKL 4WD F350 RKL 4WD	A A	7000 7000	* *	F6TF-AEA	F4TE-AA	F6TA-MB

@ SRW = Single Rear Wheel
@@ DRW = Dual Rear Wheel
* See page 20.09.17.02 - 4

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in Engine Code:
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Vehicle Model Codes:
1st character:
R = regular
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Engine Family: T5.8J 20.09.17.02 - 3
Date Issued: 5-08-95
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SDS
1996 VEHICLE COVERAGE GUIDELINES
FOR VC#4 AND VC#5 TRUCK LINES

E.O.#A-10-671

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 ALVW ETWs AND DPAs AS MARKED (>8500# GVW)									
F-SERIES (HD)									
F-250 4X2 HD &	5250	.....	(CB)	20.0	.....	.....	(CB)	21.5	.....
F-350 4X2 SRW	\$ 6500	17.56	(C)	14.9	22.82	16.55	(C)	16.3	24.21
(ALL TRANS)	\$ 7000	18.89	(C)	14.6	22.84	17.85	(C)	16.0	24.17
	\$ 7500	20.22	(C)	14.5	TBD	19.06	(C)	15.9	TBD
F-250 4X4 HD									
(ALL TRANS)	5000	13.16	(C)	16.9	23.42	12.56	(C)	18.3	24.54
	5500	.....	(CB)	20.0	.....	.....	(CB)	21.5	.....
	\$ 6500	15.92	(C)	17.1	25.17	15.09	(C)	18.5	26.55
	\$ 7000	16.8	(C)	17.5	25.68	15.94	(C)	18.9	27.07
	\$ 7500	17.68	(C)	17.8	26.15	16.79	(C)	19.2	27.53
F-350 4X4 SRW									
(ALL TRANS)	6000	.....	(CB)	20.0	.....	.....	(CB)	21.5	.....
	\$ 6500	15.38	(C)	18.4	26.05	14.61	(C)	19.8	27.42
	\$ 7000	16.39	(C)	18.5	26.33	15.55	(C)	19.9	27.75
	\$ 7500	17.39	(C)	18.3	26.58	16.53	(C)	19.7	27.97
	\$ 8000	18.4	(C)	18.2	26.80	17.46	(C)	19.6	28.24
F-350 4X2 DRW									
	\$ 7500	17.39	(C)	19.2	26.59	16.53	(C)	20.6	27.97
	\$ 8000	18.22	(C)	18.9	27.07	17.32	(C)	20.3	28.47
F350 4X2 SRW CC									
	6000	13.16	(C)	22.7	28.10	12.49	(C)	24.1	29.61
	46.2 SQ.FT								
F-350 4X2 DRW CC									
	7000	9.34	(C)	32.4	46.20	9.07	(C)	33.8	47.57
	84.6 SQ.FT								
	8000	12.41	(C)	24.18	39.74	11.99	(C)	25.58	41.13
	9000	Requirement dropped from Powertrain Line-up due to low volume							
	50.4 SQ.FT	12.87	(C)	26.5R	38.32	12.30	(C)	27.9R	40.09
E-SERIES (HD)									
ECON. E250 (HD)	\$ 7000	19.04	(C)	14.5	22.66	17.91	(C)	15.9	24.09
E-250 CUTAWAY									
(ALL TRANS)	6000	14.00	(MA)	18	26.42	13.28	(MA)	19.4	27.85
	6500	15.17	(C)	18	26.41	14.39	(C)	19.4	27.84
	7000	16.34	(MA)	18	26.41	15.50	(MA)	19.4	27.84
	53 SQ.FT.								
E-250 STRIP CHASSIS									
(ALL TRANS)	6000	.....	(CB)	26.5	.....	.....	(CB)	27.9	.....
	6500	.....	(CB)	26.5	.....	.....	(CB)	27.9	.....
	7500	.....	(CB)	26.5	.....	.....	(CB)	27.9	.....
	59 SQ.FT.								
ECON. E-350									
	6000	.....	(CB)	20.0	.....	.....	(CB)	21.5	.....
	\$ 7000	17.95	(C)	15.4	24.04	16.99	(C)	16.8	25.40
	\$ 7500	19.18	(C)	15.4	24.10	18.11	(C)	16.8	25.53
	\$ 8000	20.42	(C)	14.4	24.15	19.29	(C)	15.8	25.56
ECONOLINE E-350									
CA/SC SRW/DRW	7000	10.03	(C)	33	43.02	9.71	(C)	34.4	44.44
(ALL TRANS)	77.9 SQ.FT								

(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 4/18/95

Engine Family: T5.8J

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Issue Date: 5-08-95

Revised: