File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-666
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: TFM4.958GFJK Displacement: 4.9 Liters (300 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converter
Oxidation Catalytic Converter
Heated Oxygen Sensors (two)
Secondary Air Injection
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	0.14	1.7	0.5	3.9
	120,000	0.21	2.5	0.81	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 19th day of July 1995.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

E.O.# A-10-666

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

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: TFM4.958GFJK (T4.95)

Engine Code Types: CA___ 49S___ 50S X 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 X

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 In-Line Displacement: 4.9L (300) Liters (Cubic Inches)
Valves/Cyl: 2 Rated HP: 150 @ 3400 RPM
Engine: Front X Mid___ Rear___ Drive: Fwd___ RWD X 4WD-FT___ 4WD-PT X

Exhaust Control System and Special Features TWC, OC, AIR, HO2S(2), EGR, SFI
(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.
652LR00N	E150 RVL 2WD	A(AD)	5500	*	F6UF-DA	F6TE-EA	F6UA-AJB
652LR00N	E150 RVL 2WD	A	5500				
652LR00N	E150 RVL 2WD	A	5500				
652LR00N	E150 RVL 2WD	A	5500				
652LR00A	E150 RVL 2WD	A	5500				
652LR00A	E150 RVL 2WD	A	5500				
652LR00A	E150 RVL 2WD	A	5500				
652LR00A	E150 RVL 2WD	A	5500				
652KR00N	E150 RVL 2WD	A(DE)	5500		F6UF-CA	F6TE-EA	F6UA-AJB
652KR00A	E150 RVL 2WD	A	5500				
652RR00N	F150 RKS 2WD	A(DE)	5250		F6TF-EA	F6TE-EA	F6TA-AKB
652RR00A	F150 RKL 2WD	A	5250				
652RR00A	F150 RKS 2WD	A	5250				
652RR00N	F150 SKL 2WD	A	5500				
652RR00N	F150 SKS 2WD	A	5250				
652RR00A	F150 SKL 2WD	A	5500				
652RR00A	F150 SKS 2WD	A	5250				

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

* *To locate TRLP/DPA/CDT information reference page no. 20.09.17.02 - 3.*

Engine Family: T4.95
Issue Date: 5-01-95
Revised:

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.
652RR00N	F150 RKL 4WD	A(DE)	5500	*	F6TF-EA	F6TE-EA	F6TA-AKB
652RR00N	F150 RKS 4WD	A	5250				
652RR00N	F150 RKL 4WD	A	5500				
652RR00N	F150 RKS 4WD	A	5250				
652RR00A	F150 RKL 4WD	A	5500				
652RR00A	F150 RKS 4WD	A	5250				
652RR00A	F150 RKL 4WD	A	5500				
652RR00A	F150 RKS 4WD	A	5250				
652RR00N	F250 RKL 2WD	A	5500		F6TF-EA	F6TE-EA	F6TA-AKB
652RR00A	F250 RKL 2WD	A	5250				
651HR00N	F150 RKL 2WD	M(RE)	5250		F6TF-BA	F6TE-EA	F6TA-AKB
651HR00N	F150 RKS 2WD	M	5000				
651HR00A	F150 RKL 2WD	M	5250				
651HR00A	F150 RKS 2WD	M	5250				
651HR00N	F150 SKL 2WD	M	5250				
651HR00N	F150 SKS 2WD	M	5250				
651HR00A	F150 SKL 2WD	M	5500				
651HR00A	F150 SKS 2WD	M	5250				
651HR00N	F150 RKL 4WD	M	5500		F6TF-BA	F6TE-EA	F6TA-AKB
651HR00A	F150 RKS 4WD	M	5250				
651HR00A	F150 RKL 4WD	M	5500				
651HR00A	F150 RKS 4WD	M	5250				
651HR00N	F150 SKL 4WD	M	5500				
651HR00N	F150 SKS 4WD	M	5500				
651HR00A	F150 SKL 4WD	M	5500		F6TF-BA	F6TE-EA	F6TA-AKB
651HR00A	F150 SKS 4WD	M	5500				
651HR00N	F250 RKL 2WD	M	5500		F6TF-BA	F6TE-EA	F6TA-AKB
651HR00A	F250 RKL 2WD	M	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

* *To locate TRLP/DPA/CDT information reference page no. 20.09.17.02 - 3*

Engine Family: T4.95

Date Issued: 5-01-95
Revised:

E.O.# A-10-666

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

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: TFM4.958GFJK (T4.95)

Engine Code Types: CA___ 49S___ 50S X 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 In-Line Displacement: 4.9L (300) Liters (Cubic Inches)
Valves/Cyl: 2 Rated HP: 150 @ 3400 RPM
Engine: Front X Mid___ Rear___ Drive: Fwd___ RWD X 4WD-FT___ 4WD-PT X
Exhaust Control System and Special Features TWC, OC, AIR, HO2S(2)EGR, SFI
(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.
652VR11N	F150 RKS 2WD	A(DE)	5250	*	F6PF-CD	F6TE-EA	F6TA-AKB
652VR11N	F150 RKL 2WD	A	5250				
652VR11A	F150 RKS 2WD	A	5250				
652VR11A	F150 RKL 2WD	A	5250				
652VR11N	F150 SKL 2WD	A	5550				
652VR11N	F150 SKS 2WD	A	5250				
652VR11A	F150 SKL 2WD	A	5500				
652VR11A	F150 SKS 2WD	A	5250				
652VR11N	F150 RKL 4WD	A(DE)	5500	*	F6PF-CD	F6TE-EA	F6TA-AKB
652VR11N	F150 RKS 4WD	A	5250				
652VR11N	F150 RKL 4WD	A	5500				
652VR11N	F150 RKS 4WD	A	5250				
652VR11A	F150 RKL 4WD	A	5500				
652VR11A	F150 RKS 4WD	A	5250				
652VR11A	F150 RKL 4WD	A	5500				
652VR11A	F150 RKS 4WD	A	5250				
652VR11N	F250 RKL 2WD	A	5500	*	F6PF-CD	F6TE-EA	F6TA-AKB
652VR11A	F250 RKL 2WD	A	5250				
652NR11N	E150 RVL 2WD	A(AD)	5500	*	F6PF-GD	F4TE-AA	F6UA-ACB
652NR11N	E150 RVL 2WD	A	5500				
652NR11N	E150 RVL 2WD	A	5500				
652NR11N	E150 RVL 2WD	A	5500				
652NR11A	E150 RVL 2WD	A	5500				
652NR11A	E150 RVL 2WD	A	5500				
652NR11A	E150 RVL 2WD	A	5500				
652NR11A	E150 RVL 2WD	A	5500				

* *To locate TRLP/DPA/CDT information reference page no. 20.09.17.02 - 3.*

R/C 4.9-112

Engine Family: T4.95
Issue Date: JUN 26 1996
Revised:

(2)

SUPPLEMENTAL DATA SHEET

E.O.# A-10-666

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)
. 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)	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 (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 (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
. ECONOLINE E150 VAN/CLUB WAGON	5000	15.23	(REG)	14.0	20.24	14.19	(REG)	15.4	21.72
* Auto Trans:	5250	15.75	(C)	14.0	20.55	14.73	(C)	15.4	21.97
· DU >>4R70W (AOD-EW)	5500	16.28	(C)	14.0	20.82	15.26	(C)	15.4	22.22
	$ 6000	17.33	(C)	14.0	21.34	16.33	(C)	15.4	22.65
· DE (E4OD)	5250	16.27	(C)	13.2	19.89	15.29	(C)	14.5	21.17
· AD (C6)	$ 5500	16.75	(C)	13.2	20.24	15.83	(C)	14.5	21.42
	$ 6000	17.71	(C)	13.2	20.88	16.69	(C)	14.5	22.16
	$ 6500	18.68	(REG)	13.2	21.45	17.67	(REG)	14.5	22.67
. ECON. E250 (LD) VAN/SUPERVAN (ALL TRANS)	5500	15.97	(C)	13.8	21.23	15.12	(C)	15.2	22.42
	$ 6000	17.19	(C)	13.8	21.52	16.15	(C)	15.2	22.90
	$ 6500	18.09	(C)	13.8	22.15	17.02	(C)	15.2	23.54
	$ 7000	18.68	(C)	14.4	23.10	17.68	(C)	15.8	24.41

(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: T4.95

Date Issued: 5-01-95
Revised: