State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-783
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 1998 model-year Ford Motor Company exhaust emission control systems are certified as described below for medium-duty vehicles:

Fuel Type: Gasoline

Engine Family: WFMXA05.4JBP Displacement: 5.4 Liters (326 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converter
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)
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:

Test Weight (lbs.)	Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
5751-8500	50,000	0.22	1.9	0.6	5.3
	120,000	0.30	2.4	0.65	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 medium-duty vehicle phase-in 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" (Title 13, California Code of Regulations, Section 1960.1(h)(2)).

BE IT FURTHER RESOLVED: That under the submitted medium-duty vehicle phase-in compliance plan, if the manufacturer incurs "Vehicle Equivalent Debits" for the aforementioned model year due to the manufacturer's failure to produce and deliver for sale in California the equivalent quantity of medium-duty vehicles certified to low-emission vehicle and/or ultra-low-emission vehicle exhaust emission standards required by the above-referenced standards and test procedures, all "Vehicle Equivalent Debits" incurred 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 running loss and useful life standards applicable to 1995 and subsequent 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 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 and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.2) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

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 4th day of August 1997.

R. B. Summerfield, Chief
Mobile Source Operations Division

E.O.# A-10-783

1998 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. **FORD MOTOR COMPANY** Exh Eng Fam: **WFMXA05.4JBP(WA5.4JBP)** Evap Fam: **WFMXE0155BOG**

All Engine Codes in Engine Family: **CA X** 49S___ 50S___ AB965___ ORVR: Yes___ No XXX

Exh Std: CA **Tier-1 X** , TLEV___, LEV___ , ULEV___ , SULEV___ , EPA TIER-1___
NMOG Test Proc N/A

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)

Fuel Type(s): Dedicated X Flex Fuel___ Dual-Fuel___ Bi-Fuel___
Gasoline X Diesel___ M85___ CNG___ LPG___ Other (specify)___

Exh Emiss Test Fuel(s): Indo___ **CBG X** CNG___ LPG___ M85___ Other (specify)___
Diesel: 13 CCR 2282___ or 40CFR 86.113-90___ or -94___

Evaporative Emission Test Procedure: California X Federal___

Service Accumulation: Std AMA___ Mod AMA X Mfr. ADP___ Other (Specify)___

NMOG Test Procedure: N/A X Std___ Equiv___ R/L Test Procedure: SHED___ Pt Source X

Engine Configuration: **V-8** **Displacement:** **5.4L** (326) Liters (Cubic Inches)
Valves/Cyl: **2** **Rated HP:** **235 @ 4250** **RPM**
Engine: Front X Mid___ Rear___ **Drive:** FWD___ **RWD X** 4WD-FT___ 4WD-PT___

Exhaust Control System and Special Features: **TWC, HO2S, EGR, SFI,** 2H025
(Use abbreviations per SAE J1930 JUN93)

Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. Type A4-Automatic M5-Manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
846QR00N	E150 CWL 2WD	A4	6000	*	F8UF-TA	F7UE-AA	F7UA-KA
846QR00A	E150 CWL 2WD	A4	6500				
846QR00N	E150 RVL 2WD	A4	6000				
846QR00A	E150 RVL 2WD	A4	6000				
846QR00N	E250 RVL 2WD	A4	6000				
846QR00N	E250 RVL 2WD	A4	7000				
846QR00N	E250 RVL 2WD	A4	6500				
846QR00A	E250 RVL 2WD	A4	6500				
846QR00A	E250 RVL 2WD	A4	7000				
846QR00N	E250 SVL 2WD	A4	6500				
846QR00N	E250 SVL 2WD	A4	7000				
846QR00A	E250 SVL 2WD	A4	6500				
846QR00A	E250 SVL 2WD	A4	7000				
846QR00A	E250 SVL 2WD	A4	6500				
874UR00N	E350 CWL 2WD	A4	7500		F8UF-YA		
874VR00N	E350 CWL 2WD	A4	7500		F8UF-ZA		
874UR00A	E250 CWL 2WD	A4	7500		F8UF-YA		
874VR00A	E250 CWL 2WD	A4	7500		F8UF-ZA		
874UR00N	E350 RVL 2WD	A4	7500		F8UF-YA		
874VR00N	E350 RVL 2WD	A4	7500		F8UF-ZA		

* *See page 20.09.17.02-3 for DPA values.*

Engine Family: WA5.4JBP

Issue Date: JUN 23 1997
Revised:

E.O.# A-10-783

1998 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

(Continued)

Mfgr. **FORD MOTOR COMPANY** Exh Eng Fam: **WFMXA05.4HBC(WA5.4HBC)** Evap Fam: **WFMXE0160BOF**

Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. Type A4-Automatic M5-Manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
874UR00A	E350 RVL 2WD	A4	7500	*	F8UF-YA	F7UE-AA	F7UA-KA
874VR00A	E350 RVL 2WD	A4	7500		F8UF-ZA		
874UR00N	E350 SVL 2WD	A4	7500		F8UF-YA		
874VR00N	E350 SVL 2WD	A4	7500		F8UF-ZA		
874UR00A	E350 SVL 2WD	A4	7500		F8UF-YA		
874VR00A	E350 SVL 2WD	A4	7500		F8UF-ZA		
874UR00N	E350 SW-10-P 2WD	A4	7500		F8UF-YA		
874VR00N	E350 SW-10-P 2WD	A4	7500		F8UF-ZA		
874UR00A	E350 SW-10-P 2WD	A4	7500		F8UF-YA		
874VR00A	E350 SW-10-P 2WD	A4	7500		F8UF-ZA		
874UR00N	E350 SW-12-P 2WD	A4	7500		F8UF-YA		
874VR00N	E350 SW-12-P 2WD	A4	7500		F8UF-ZA		
874UR00A	E350 SW-12-P 2WD	A4	7500		F8UF-YA		
874VR00A	E350 SW-12-P 2WD	A4	7500		F8UF-ZA		
874UR00N	E350 SW-15-P 2WD	A4	7500		F8UF-YA		
874VR00N	E350 SW-15-P 2WD	A4	7500		F8UF-ZA		
874UR00A	E350 SW-15-P 2WD	A4	7500		F8UF-YA		
874VR00A	E350 SW-15-P 2WD	A4	7500		F8UF-ZA		

* *See page 20.09.17.02-3 for DPA values.*

Engine Family: WA5.4JBP

Issue Date: JUN 23 1997
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E.O.# A-10-783

1998 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

(Continued)

Mfgr. **FORD MOTOR COMPANY** Exh Eng Fam: **WFMXA05.4HBC(WA5.4HBC)** Evap Fam: **WFMXE0160BOF**

Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. Type A4-Automatic M5-Manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
846QR05N	E150 CWL 2WD	A4	6000	*	F8UF-TB	F7UE-AA	F7UA-KA
846QR05A	E150 CWL 2WD	A4	6500				
846QR05N	E150 RVL 2WD	A4	6000				
846QR05A	E150 RVL 2WD	A4	6000				
846QR05N	E250 RVL 2WD	A4	6000				
846QR05N	E250 RVL 2WD	A4	7000				
846QR05N	E250 RVL 2WD	A4	6500				
846QR05A	E250 RVL 2WD	A4	6500				
846QR05A	E250 RVL 2WD	A4	7000				
846QR05N	E250 SVL 2WD	A4	6500				
846QR05N	E250 SVL 2WD	A4	7000				
846QR05A	E250 SVL 2WD	A4	6500				
846QR05A	E250 SVL 2WD	A4	7000				
846QR05A	E250 SVL 2WD	A4	6500				
874UR05N	E350 CWL 2WD	A4	7500		F8UF-YB		
874VR05N	E350 CWL 2WD	A4	7500		F8UF-ZB		
874UR05A	E250 CWL 2WD	A4	7500		F8UF-YB		
874VR05A	E250 CWL 2WD	A4	7500		F8UF-ZB		
874UR05N	E350 RVL 2WD	A4	7500		F8UF-YB		
874VR05N	E350 RVL 2WD	A4	7500		F8UF-ZB		
874UR05A	E350 RVL 2WD	A4	7500		F8UF-YB		
874VR05A	E350 RVL 2WD	A4	7500		F8UF-ZB		
874UR05N	E350 SVL 2WD	A4	7500		F8UF-YB		
874VR05N	E350 SVL 2WD	A4	7500		F8UF-ZB		
874UR05A	E350 SVL 2WD	A4	7500		F8UF-YB		
874VR05A	E350 SVL 2WD	A4	7500		F8UF-ZB		
874UR05N	E350 SW-10-P 2WD	A4	7500		F8UF-YB		
874VR05N	E350 SW-10-P 2WD	A4	7500		F8UF-ZB		
874UR05A	E350 SW-10-P 2WD	A4	7500		F8UF-YB		
874VR05A	E350 SW-10-P 2WD	A4	7500		F8UF-ZB		
874UR05N	E350 SW-12-P 2WD	A4	7500		F8UF-YB		
874VR05N	E350 SW-12-P 2WD	A4	7500		F8UF-ZB		
874UR05A	E350 SW-12-P 2WD	A4	7500		F8UF-YB		
874VR05A	E350 SW-12-P 2WD	A4	7500		F8UF-ZB		
874UR05N	E350 SW-15-P 2WD	A4	7500		F8UF-YB		
874VR05N	E350 SW-15-P 2WD	A4	7500		F8UF-ZB		
874UR05A	E350 SW-15-P 2WD	A4	7500		F8UF-YB		
874VR05A	E350 SW-15-P 2WD	A4	7500		F8UF-ZB		

* *See page 20.09.17.02-3 for DPA values.*

Engine Family: WA5.4JBP

Issue Date: AUG 08 1997
Revised:

SUPPLEMENTAL DATA SHEET

1998 TRUCK DPA CHART

EO#A-10-783

Engine Family: WA5.4JBP
Issue Date: JUN 2 3 1997

VEHICLE LINE	ETW	< - - - CDT	NON - CODE	AC DPA	- - - > TRLHP (HP)	< - - - CDT	A CODE	C DPA	- - - > TRLHP (HP)	Ambient Dyno Coefficients A (LBS)	B (LBS/MPH)	C (LBS/(MPH)^2)	Track Force Coefficients FO (LBS)	F2 (LBS/(MPH)^2)
% = LVW/ALVW (BOTH)					♦ = ALVW									
E-SERIES (VN127) - (LD)														
ECONOLINE E-150	5250	15.85	(A)	13.7	20.68	14.88	(A)	15.1	22.04				46.78	0.04319
VAN/CLUB WAGON	5500	16.36	(A)	13.7	20.72	15.35	(A)	15.1	22.09				47.84	0.04329
5.4L	6000	17.25	(A)	13.7	21.44	16.21	(A)	15.1	22.82				52.62	0.04362
E4OD ♦	6000	16.90	(A)	14.0	21.88	15.89	(A)	16.0	23.28				55.47	0.04380
♦	6500	17.99	(A)	14.3	22.27	16.93	(A)	15.7	23.67				57.98	0.04397
5.4L/E4OD	5500	14.68	(A)	15.8	23.09	13.84	(A)	17.2	24.50				54.69	0.04747
LT225/75R16 A/S "D" or "E" TIRE ♦	6500	16.74	(A)	15.9	23.94	15.81	(A)	17.3	25.34				61.68	0.04721
5.4L/E4OD	6000	16.17	(A)	14.6	22.87	15.24	(A)	16.0	24.27				56.49	0.04648
LT225/75R16 A/S "D" or "E" TIRE ♦	6500	16.89	(A)	14.8	23.72	15.95	(A)	16.2	25.12				62.36	0.04627
E-SERIES (VN127) - (HD)														
ECON. E-250 REGULAR VAN														
5.4L/E4OD ♦	7000	17.76	(A)	15.6	24.32	16.76	(A)	17.0	25.72				64.20	0.04728
LT225/75R16 A/S "E" TIRE														
ECON. E-250 SUPER VAN														
5.4L/E4OD ♦	7000	17.90	(A)	16.5	24.11	16.92	(A)	17.9	25.50				65.08	0.04636
LT225/75R16 A/S "E" TIRE														
ECONOLINE E-350 ♦	7500	18.02	(A)	17.4	25.66	17.08	(A)	18.8	27.07				76.33	0.04652
5.4/6.8L REGULAR VAN														
E4OD TRANS														
LT245/75R16 A/S TIRE														
ECONOLINE E-350 ♦	7500	18.00	(A)	16.2	25.68	17.07	(A)	17.6	27.08				76.49	0.04653
5.4L COMMUTER VAN														
E4OD TRANS														
LT245/75R16 A/S TIRE														
ECONOLINE E-350 ♦	7500	18.24	(A)	16.3	26.35	17.29	(A)	17.7	26.74				76.40	0.04654
5.4/6.8L SUPER VAN														
E4OD TRANS														
LT245/75R16 A/S TIRE														
ECONOLINE E-350 ♦	7500	18.10	(A)	16.1	25.54	17.16	(A)	17.6	26.94				75.55	0.04647
5.4/6.8L CLUB WAGON														
E4OD TRANS														
LT225/75R16 A/S TIRE														
LT245/75R16 A/S TIRE														
ECONOLINE E-350 ♦	7500	17.98	(A)	15.6	25.71	17.05	(A)	17.0	27.12				79.07	0.04558
5.4/6.8L SUPER WAGON ♦	8000	19.11	(A)	15.3	25.81	18.13	(A)	16.7	27.20				79.64	0.04562
E4OD TRANS														
LT245/75R16 A/S TIRE														

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SUPPLEMENTAL DATA SHEET

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