

State of California
AIR RESOURCES BOARD

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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:

<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>
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 (lbs.)</u>	<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
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-10-7831998 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKSPage 1Mfr. FORD MOTOR COMPANY Exh Eng Fam: WFMXA05.4JBP(WA5.4JBP) Evap Fam: WFMXE0155BOGAll Engine Codes in Engine Family: CA X 49S 50S AB965 ORVR: Yes No XXXExh Std: CA Tier-1 X , TLEV , LEV , ULEV , SULEV , EPA TIER-1
NMOG Test Proc N/AVeh 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 XEngine Configuration: V-8 Displacement: 5.4L (326) Liters (Cubic Inches)Valves/Cyl: 2 Rated HP: 235 @ 4250 RPMEngine: Front X Mid Rear Drive: FWD RWD X 4WD-FT 4WD-PT Exhaust Control System and Special Features: TWC, HO2S, EGR, SFI, 2HO2S
(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

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Issue Date: JUN 23 1997
Revised:

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PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKSPage 1

(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: WA5.4JBPIssue Date: JUN 23 1997
Revised:

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PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

(Continued)

Mfr. FORD MOTOR COMPANY Exh Eng Fam: WFMKA05.4HBC (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: WA5.4JBPIssue Date: AUG 08 1997
Revised:

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SUPPLEMENTAL DATA SHEET

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SUPPLEMENTAL DATA SHEET 1998 TRUCK DPA CHART

VEHICLE LINE	ETW	CDT	NON-AC	AC	TRUMP (HP)	CDT	CODE	A/C	DPA	TRUMP (HP)	A	B	C	F1	F2
E-SERIES (VIN127) - (MD)															
% = LVW/ALVW (BOTH) % = ALVW															
ECONOLINE E-160	5260	15.66	(A)	13.7	20.68	14.88	(A)		15.1	22.04				46.78	0.04318
VAN/CLUB WAGON	5500	16.38	(A)	13.7	20.72	15.35	(A)		16.1	22.08				47.84	0.04328
5.4L	8000	17.25	(A)	13.7	21.44	16.21	(A)		16.1	22.82				52.82	0.04362
E400	8000	16.80	(A)	14.8	21.88	15.89	(A)		16.0	23.28				55.47	0.04380
5.4L E400	8500	17.99	(A)	14.3	22.27	16.93	(A)		16.7	23.87				57.88	0.04387
LT226/76R16 A/S "D" or "E" TIRE	5500	14.88	(A)	16.8	23.09	13.84	(A)		17.2	24.50				54.88	0.04747
	8500	16.74	(A)	15.9	23.94	15.81	(A)		17.3	25.34				61.68	0.04721
5.4L E400	8000	16.17	(A)	14.8	22.87	16.24	(A)		16.0	24.27				55.49	0.04648
LT226/76R16 A/S "D" or "E" TIRE	8500	16.88	(A)	14.8	23.72	15.85	(A)		16.2	25.12				62.35	0.04627
E-SERIES (VIN127) - (MD)															
ECON. E-260 REGULAR VAN															
5.4L E400	7000	17.78	(A)	15.6	24.32	16.78	(A)		17.0	25.72				64.20	0.04728
LT226/76R16 A/S "E" TIRE															
ECON. E-260 SUPER VAN															
5.4L E400	7000	17.80	(A)	16.5	24.11	16.92	(A)		17.8	25.50				65.08	0.04635
LT226/76R16 A/S "E" TIRE															
ECONOLINE E-350	7500	18.02	(A)	17.4	25.68	17.08	(A)		18.8	27.07				78.33	0.04652
5.4/8 BL REGULAR VAN															
E400 TRANS															
LT246/76R16 A/S TIRE															
ECONOLINE E-350	7500	18.00	(A)	16.2	25.68	17.07	(A)		17.6	27.08				78.49	0.04653
5.4L COMMUTER VAN															
E400 TRANS															
LT246/76R16 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
5.4/8 BL SUPER VAN															
E400 TRANS															
LT246/76R16 A/S TIRE															
ECONOLINE E-350	7500	18.10	(A)	16.1	25.84	17.18	(A)		17.5	26.94				76.55	0.04647
5.4/8 BL CLUB WAGON															
E400 TRANS															
LT226/76R16 A/S TIRE															
LT246/76R16 A/S TIRE															
ECONOLINE E-350	7500	17.88	(A)	15.6	25.71	17.05	(A)		17.0	27.12				79.07	0.04658
5.4/8 BL SUPER WAGON	8000	19.11	(A)	15.3	25.81	18.13	(A)		16.7	27.20				79.64	0.04682
E400 TRANS															
LT246/76R16 A/S TIRE															

Engine Family: WA5.4JBP

Issue Date: 2 3 1997

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