

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-727
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 1997 model-year exhaust emission control systems are certified as described below for medium-duty vehicles:

Fuel Type: Gasoline

Engine Family: VFM7.5J8G1EK Displacement: 7.5 Liters (460 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 (in-use compliance standards in parentheses) 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>
5751-8500	50,000	0.39 (0.49)	5.0 (6.2)	1.1 (1.4)
	120,000	0.56 (n/a)	7.3 (n/a)	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>
5751-8500	50,000	0.17	1.8	0.2
	120,000	0.19	2.1	0.24

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 based on a compliance plan submitted by the vehicle manufacturer, the listed vehicle models are permitted alternative in-use compliance 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".

BE IT FURTHER RESOLVED: That the submitted alternative in-use compliance plan satisfies the requirement that a maximum of 50 percent of the manufacturer's projected sales of 1997 model-year California-certified medium-duty vehicles will be subject to alternative in-use compliance as stipulated in the above-referenced standards and test procedures.

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.

FORD MOTOR COMPANY

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The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 29th day of April 1996.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1997 MODEL YEAR SUPPLEMENTAL DATA SHEET
 EXHAUST/EVAPORATIVE SYSTEM - CALIFORNIA REQUIREMENTS
 PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

E.O.# A-10-727

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: VFM7.5J8G1EK (V7.5J)
 Engine Code Types: CA X 49S 50S Evaporative Emissions Family: VFM1090AYMOD
 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 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: 7.5L (460) Liters (Cubic Inches)
 Valves/Cyl: 2 Rated HP: 245 @ 4000 RPM
 Engine: Front X Mid Rear Drive: Fwd RWD X 4WD-FT 4WD-PT X

Exhaust Control System and Special Features HO2S, EGR, SFI, TWC 2 HO2S
 (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.
698NR06N	F250 CRW 4WD	A	7500	*	F6TF-AKC	F6TE-CA	F6TA-EC
698NR06A	F250 CRW 4WD	A	7500				
698NR06N	F250 CRW 4WD	A	7000				
698NR06A	F250 RKL 4WD	A	7000				
698NR06N	F250 SKL 4WD	A	7500				
698NR06A	F250 SKL 4WD	A	7500				
698NR06N	F250 SKS 4WD	A	7500				
698NR06A	F250 SKS 4WD	A	7500				
698NR06N	F350 CRW-SRW 4WD	A	7500				
698NR06A	F350 CRW-SRW 4WD	A	7500				
698NR06N	F350 RKL 4WD	A	7000				
698NR06A	F350 RKL 4WD	A	7000				
698QR10N	F350 CRW-SRW 2WD	A	7500	*	F6TF-AMD	F6TE-CA	F6TA-EC
698QR10A	F350 CRW-SRW 2WD	A	7500				
698QR10N	F350 RKL 2WD	A	7000				
698QR10A	F350 RKL 2WD	A	7000				
698QR10N	F250 CRW 2WD	A	7000				
698QR10A	F250 CRW 2WD	A	7000				
698QR10N	F250 RKL 2WD	A	7000				
698QR10A	F250 RKL 2WD	A	7000				
698QR10N	F250 SKL 2WD	A	7000				
698QR10A	F250 SKL 2WD	A	7000				
698QR10N	F250 SKS 2WD	A	7000				
698QR10A	F250 SKS 2WD	A	7000				

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Engine Family: V7.5J

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Date Issued: 2-26-96

Revised:

Review Sheet for V7.5J8GIEK / VM1090AYMOD cont.

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.
698QR10N	F350 CRW-DRW 2WD	A	8000	*	F6TF-AMD	F6TE-CA	F6TA-EC
698QR10A	F350 CRW-DRW 2WD	A	8000				
698QR10N	F350 RKL-DRW 2WD	A	7500				
698QR10A	F350 RKL-DRW 2WD	A	7500				
698QR10N	F350 SKL-DRW 2WD	A	7500				
698QR10A	F350 SKL-DRW 2WD	A	8000				
698QR10N	F250 CRW 4WD	A	7500				
698QR10A	F250 CRW 4WD	A	7500				
698QR10N	F250 RKL 4WD	A	7000				
698QR10A	F250 RKL 4WD	A	7000				
698QR10N	F250 SKL 4WD	A	7500				
698QR10A	F250 SKL 4WD	A	7500				
698QR10N	F250 SKS 4WD	A	7500				
698QR10A	F250 SKS 4WD	A	7500				
698QR10N	F350 CRW-SRW 4WD	A	7500				
698QR10A	F350 CRW-SRW 4WD	A	7500				
698QR10N	F350 RKL 4WD	A	7000				
698QR10A	F350 RKL 4WD	A	7000				
697QR06N	F350 CRW-SRW 2WD	M	7500	*	F6TF-AGC	F6TE-CA	F6TA-EC
697QR06A	F350 CRW-SRW 2WD	M	7500				
697QR06N	F350 RKL 2WD	M	7000				
697QR06A	F350 RKL 2WD	M	7000				
697QR06N	F250 CRW 2WD	M	7000				
697QR06A	F250 CRW 2WD	M	7000				
697QR06N	F250 RKL 2WD	M	7000				
697QR06A	F250 RKL 2WD	M	7000				
697QR06N	F250 SKL 2WD	M	7000				
697QR06A	F250 SKL 2WD	M	7000				
697QR06N	F250 SKS 2WD	M	7000				
697QR06A	F250 SKS 2WD	M	7000				
697QR06N	F350 CRW-DRW 2WD	M	8000				
697QR06A	F350 CRW-DRW 2WD	M	8000				
697QR06N	F350 RKL-DRW 2WD	M	7500				
697QR06A	F350 RKL-DRW 2WD	M	7500				
697QR06N	F350 SKL-DRW 2WD	M	7500				
697QR06A	F350 SKL-DRW 2WD	M	7500				
697QR06N	F250 CRW 4WD	M	7500				
697QR06A	F250 CRW 4WD	M	7500				
697QR06N	F250 RKL 4WD	M	7000				
697QR06A	F250 RKL 4WD	M	7000				
697QR06N	F250 SKL 4WD	M	7500				
697QR06A	F250 SKL 4WD	M	7500				
697QR06N	F250 SKS 4WD	M	7500				
697QR06A	F250 SKS 4WD	M	7500				
697QR06N	F350 CRW-SRW 4WD	M	7500				
697QR06A	F350 CRW-SRW 4WD	M	7500				
697QR06N	F350 RKL 4WD	M	7000				
697QR06A	F350 RKL 4WD	M	7000				

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Date Issued: 2-26-96

Revised:

1997 DPA CHART - VC#4 and VC#5

VEHICLE LINE	ETW	< . . . >		NON - AC		. . . >		< . . . >		A C		Electric Dyno Coefficients		Track Force Coefficients		
		CDT	CODE	DPA	TRLHP (HP)	CDT	DPA	TRLHP (HP)	CDT	CODE	DPA	A	B	C	FO	F2
The Following Vehicles Are Certified Using ALVW (Adjusted Loaded Vehicle Weight) ETW & DPAs (> 8500# GVW)																
F-SERIES (HD)																
F-250 4X2	5250	13.16	(C)	16.9	23.42	18.55	(C)	16.3	24.21	47.14	-1.0335	0.05108	65.59	0.04197		
ALL TRANS	5500	17.56	(C)	14.9	22.82	17.85	(C)	16.0	24.17	54.28	-1.1858	0.05318	67.96	0.04249		
F-250 4X4	7000	18.89	(C)	14.6	22.84	19.08	(C)	15.9	24.26	56.32	-1.0886	0.04887	71.61	0.03974		
ALL TRANS	5000	20.22	(C)	14.5	22.86	12.58	(C)	18.3	24.54							
F-350 4X2 SRW	5500	15.92	(C)	17.1	25.17	15.09	(C)	18.5	26.55	49.78	-0.9725	0.05670	66.77	0.04912		
ALL TRANS	7000	16.80	(C)	17.5	25.68	15.94	(C)	18.9	27.07	53.44	-1.0888	0.05824	68.80	0.04987		
F-350 4X4 SRW	7500	17.68	(C)	17.8	26.15	16.79	(C)	19.2	27.54	52.00	-0.9071	0.05708	70.60	0.05051		
ALL TRANS	5250	15.38	(C)	20.0	26.05	14.81	(C)	19.8	27.42	35.59	-0.4546	0.05815	57.89	0.05521		
F-350 4X2 SRW	5500	16.57	(C)	18.4	26.05	15.55	(C)	19.9	27.75	40.01	-0.5833	0.05743	61.01	0.05528		
ALL TRANS	7000	18.39	(C)	18.5	28.33	17.85	(C)	16.0	24.17	54.28	-1.1858	0.05318	67.96	0.04249		
F-350 4X4 SRW	7500	17.39	(C)	18.3	26.59	19.08	(C)	15.9	24.26	56.32	-1.0886	0.04887	71.61	0.03974		
ALL TRANS	6000	20.22	(C)	14.5	22.86	17.46	(C)	19.6	28.24	42.84	-0.4317	0.05388	67.60	0.05370		
F-350 4X2 DRW	6000	18.40	(C)	18.2	26.80	14.81	(C)	19.8	27.42	35.59	-0.4546	0.05815	57.89	0.05521		
ALL TRANS	6500	15.38	(C)	20.0	26.05	15.55	(C)	19.9	27.75	40.01	-0.5833	0.05743	61.01	0.05528		
F-350 4X2 SRW CC	8000	17.40	(C)	17.9	28.34	16.53	(C)	19.7	27.97	40.74	0.4322	0.05458	64.31	0.05421		
ALL TRANS	8000	18.40	(C)	18.2	26.80	17.46	(C)	19.6	28.24	42.84	-0.4317	0.05388	67.60	0.05370		
F-350 4X2 DRW CC	7000	13.16	(C)	22.7	28.10	15.81	(C)	19.7	29.24	35.85	0.1452	0.05445	75.10	0.05397		
ALL TRANS	8000	17.40	(C)	17.9	28.34	16.64	(C)	19.3	29.64	39.00	0.1970	0.04742	86.10	0.05088		
BIAS TIRE	48.2 SO.FT.	9.34	(C)	32.4	46.20	12.49	(C)	24.1	29.61							
RADIAL TIRE	84.6 SO.FT.	12.41	(C)	24.1	38.74	11.99	(C)	25.5	41.13							
ALL TRANS	8000	12.67	(C)	28.5	38.32	12.30	(C)	27.9	40.09							
ALL TRANS	50.4 SO.FT.															

(C) Certification point, (R) Regressed point,
 (A) Adjusted, (CB) Cookbook, (EST) Estimate, (C/O) Carryover
 97DPA TRK.xls