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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-710 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 light-duty trucks:

Fuel Type: Gasoline

Engine Family: VFM4.028G1GK Displacement: 4.0 Liters (244 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:

Loaded Vehicle	Miles	Non-Methane	Carbon	Nitrogen	Carbon	
Weight (lbs.)		<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Monoxide (20⁰F)</u>	
3751-5750	50,000	0.32	4.4	0.7	12.5	
	100,000	0.40	5.5	0.97	n/a	

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

Loaded Vehicle	Miles	Non-Methane	Carbon	Nitrogen	Carbon	
Weight (lbs.)		<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Monoxide (20⁰F)</u>	
3751-5750	50,000 100,000	0.08 0.08	1.2	0.1 0.14	3.9 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 fleet average non-methane organic gases (NMOG) exhaust mass emission 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."

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits 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 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 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 day of July 1996.

R. B. Summerfield

Assistant Division Chief Mobile Source Division

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

MfgrFOR	D MOTOR COMPANY	•	Exhaust E	ngine F	amily: <u>VFM4</u>	.028G1GV	
Ingine Code	Types: CA_X 498	508	Evaporati	Ve Emis	gions Family	· VPM10453	
Exh Std: Tie	er-0 Tier-1_X	_ TLEV I	.EV	EV	ZEV EPA	TTEP_A	I PBA
Eveb Std: E	OK X Useful Li	fe with R/L	_ In-Use	Exh St	d: Full In t	ine Y ale	Ym Pv
AGII CIGRE (SE): PCLDT1	LDT2 X M	DV1N	DV2	MDV3 MD	V4. MOU	' 5
otuate Cart	Std for Multi-Cla	ass Eng Fam:	N/A (epecify	: N/A, LDT1,	MDV1.MDV2	MTNU2 Networks
man COLF MA	1(s): Indo X Pi	Diesel	: 13 CCR	2282		.113-90	or -94
ager TAbe(B)	: Dedicated	Flex Fuel	Duel-Fu	el			
Hybrid: Type	Gasoline X T	_		,	OTCOCT, IUI	Dine:	
Velue Config	V-6 Disp	lacement:	LOL (24	1.)	Titama (mis	C Inches)	
engine: From	· · · · · · · · · · · · · · · · · · ·		*** .	- 00	_4200 RDM		_
Exhaust Contr	A(()A: AM) ol System and spe	A scial Feature	E. TWC/n:	2НО2	S HO2S FO	P SET	PT
			(Use s	bbrevie	tions per sa	K, 311 E J1930 SE	P91)
sagine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	A-Automatic	ETW	DPA		EGR	Catalytic
758NROOR/N		A 5		· ·	F79F-EA/		<u> </u>
4	Aerostar AWD EWS		4500 4500	11.5 12.7*	F79C-EA	PUJE-AA	F79A-AAA
758QR00A/N		A 5		14.17	F79F-FA/		
A	erostar 2WD EWS		4250	10.2	F79C-FA	#1	*
			4250	12 7*			

^{*} with air conditioning

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

MIGT. FORI	MOTOR COMPANY	Ex	chaust Eng	jine Fa	mily: <u>VFM4.</u>	028G1GK	
Engine Code	Types: CA_X 49S	50S Ev	aporative	Emiss:	ions Family:	VFM1045AYI	BA
	er-0 Tier-1_X						
Evap Std: 5	0K <u>X</u> Useful Lif	e with R/L	In-Use	Exh Std	l: Full In Us	se <u>X</u> Alt	In Use
): PC LDT1						
	Std for Multi-Cla						
Exh Cert Fue	l(s): Indo <u>X</u> Ph M85 CN	2 Diesel: IG LPG	13 CCR 22	282	or 40CFR 86.	113-90	or -94
Fuel Type(s)	: Dedicated	Flex Fuel	Dual-Fue	_			
Hybrid: Type	Gasoline <u>X</u> D	niesel M85_ _, APU Cyc:	CNG Le (eg,	LPG Otto,	Other (Diesel, Turb	specify)	
Engine Confid	V-6 Disp	lacement: 4	OL (244)		Liters (Cubi	c Inches)	
	nt_XMid Re	U ~ 4	- ^ 111				
							r
DAHAGE COILCI	col System and Spe	ecial Features	TWC(2)SF (Use al	I,ZHO28	5. <u>EGR <i>H025</i></u> tions per SA	F .T1930 CE	001
Engine Code	Vehicle Models	Trans Trans					
(also list	(if coded see	A-Automatic		DPA	Ignition (ECM/PCM)	EGR	Catalytic
CA/49ST/50ST	attachment)	M-Manual	Test Wt	RLHP	Part No.	Part No.	Part No.
758NR05A/N		A5			F79F-EB	F69E-AA	P707
	Aerostar AWD EWS				1 / 21 - 100	FOJE-AA	F79A-AAL
	Aerostar Awb Ews		4500 4500	11.5 12.7*			
758QR05A/N		A 5			F79F-FB	n	11
	Aerostar 2WD EWS		4250	10.2			
			4250	12.7*			

^{*} with air conditioning

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD MOTOR COMPANY	Ex	haust Eng:	ine Fam	ily: <u>VFM4.</u>	028G1GK	
Engine Code Types: CAX 49S	50S Ev	aporative	Emissi	ons Family:	VFM1045AYF	BA
Exh Std: Tier-0 Tier-1_X_	TLEV LEV	ULEV	z	EV EPA T	'IER-0	TIER-1
Evap Std: 50K <u>X</u> Useful Lif	e with R/L	In-Use E	xh Std	: Full In Us	e_X_ Alt	In Use
Veh Class(es): PC LDT1	LDT2 <u>X</u> MD\	71 MDV	2 1	MDV3 MDV	4 MDV5	
Single Cert Std for Multi-Clas	ss Eng Fam: _N	I/A (sp	ecify:	N/A, LDT1,M	DV1,MDV2,MI	DV3,MDV4)
Exh Cert Fuel(s): Indo X Phi	Diesel:	13 CCR 22	82 (or 40CFR 86.	113-90	or -94
Fuel Type(s): Dedicated :	Flex Fuel	Dual-Fuel		0.1 (
Gasoline <u>X</u> D: Hybrid: Type A B C	_, APU Cycl	e (eg,	LPG_ Otto, 1	Other (Diesel, Turb	specify) ine)	
Engine Config <u>V-6</u> Disp Valves/Cyl: <u>2</u> Engine: Front <u>X</u> Mid_ Rea	Rat	ed HP: _1	60 @	4200 RPM		n
Exhaust Control System and Spe						
ope of the second secon	ordi reacules			tions per SA		
Engine Code Vehicle Models (also list (if coded see CA/49ST/50ST attachment)	Trans. Type A-Automatic M-Manual	or	DPA or RLHP	Ignition (ECM/PCM) Part No.	System	
758NR10A/N	A 5			F79F-EC	F69E-AA	F79A-AAA
Aerostar AWD EWS		4500 4500	11.5 12.7*			
758QR10A/N	A 5			F79F-FC	н	11
Aerostar 2WD EWS		4250	10.2			
I DE LA COLLEGE		4250	11.2*			

ENGINE FAMILY: VFM4.028G1GK

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^{*} with air conditioning

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. <u>FORD MOTOR COMPANY</u>	L_	Exhaust Eng	ine Family: <u>V</u>	FM4.028G1GK	
Engine Code Types: CA X					
Exh Std: Tier-0 Tier-1					
Evap Std: 50K <u>X</u> Useful					
Veh Class(es): PC LDT1	LDT2_XN	MDV1 MDV	72 MDV3	MDV4MDV	5
Single Cert Std for Multi-	Class Eng Fam:	N/A (sp	ecify: N/A, L	DT1,MDV1,MDV2,M	IDV3,MDV4)
Exh Cert Fuel(s): Indo_X M85	Ph2 Diesel	: 13 CCR 22	82 or 40CFI	86.113-90	or -94
raci Type(s): Dedicated	_ Flex Fuel_	Dual-Fuel			
Hybrid: Type AB	Diesel M8 C, APU C	cle (eg,	_ LPG Otl Otto, Diesel,	uer (specify) Turbine)	
Engine Config <u>V-6</u> D Valves/Cyl: <u>2</u>	isplacement:	4.0L (244)	Liters	(Cubic Inches)	
Engine: Front_X Mid	Rear	rive: Fwd_	60 @ 4200 I	RPM VD-FT4WD-F	PT
Exhaust Control System and	Special Featur	es <u>TWC(2)</u> SF	I,2HO2S, EGR	HOIS	
		(Use ab	breviations pe	er SAE J1930 SE	P91)
Engine Code Vehicle Mode (also list (if coded se CA/49ST/50ST attachment)	ee A-Automatio	c or	or (ECM/P		Catalytic Converter Part No.
758NR11A/N	A 5		F79F-E	D F69E-AA	F79A-AAA
Aerostar AWD B	ws	4500 4500	11.5 12.7*		
758QR11A/N	A 5		F79F-F) "	11
Aerostar 2WD E	ws	4250 4250	10.2 11.2*		

^{*} with air conditioning