S. Hola aullet

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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-718-A 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: VFM4.2J8G1EK Displacement: 4.2 Liters (255 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Dual Three Way Catalytic Converters (two)
Dual Heated Oxygen Sensors (two)
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:

Test Weight	<u>Miles</u>	Non-Methane	Carbon	Nitrogen	Carbon	
(lbs.)		<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	Monoxide (20°F)	
5751-8500	50,000	0.39 (0.49)	5.0 (6.2)	1.1 (1.4)	12.5 (12.5)	
	120,000	0.56 (n/a)	7.3 (n/a)	1.53 (n/a)	n/a	

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

Test Weight	<u>Miles</u>	Non-Methane	Carbon	Nitrogen	Carbon	
(lbs.)		<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Monoxide (20°F)</u>	
5751-8500	50,000	0.11	1.8	0.4	2.8	
	120,000	0.12	3.1	0.74	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 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 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").

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.

Executive Order A-10-718 dated July 16, 1996 is superseded and replaced by Executive Order A-10-718-A.

Executed at El Monte, California this 21

day of October 1996.

R. B Summerfield Chief

Mobile Source Operations Division

E.O.# A-10-718 ~A

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD	MOTOR COMPANY	Ex	haust Eng:	ine Far	nily: <u>VFM4.</u>	2J8G1EK	
Engine Code	Types: CA <u>X</u> 49S_	50S Ev	ap Emissio	ons Far	nily: <u>VFM115</u>	5AYMGB	
Exh Std: Tier	r-0 Tier-1_X_	TLEV LEV	ULEV	/ Z	EV EPA 1	TIER-0	TIER-1
Evap Std: 50 R/L Test	OK Useful Life Proc. Point Sour	e with R/L <u>X</u>	In-Use E	xh Std	: Full In Us	se Alt	In Use 🔀
Veh Class(es)	: PC LDT1	LDT2MDV	/1 MDV	72	MIDV3_X MI	DV4 MDV	75
Service Single Cert S	Accum: Mod AMA Std for Multi-Clas	ss Eng Fam: <u>N</u>	I/A (sp	ecify:	N/A, LDT1,M	IDV1,MDV2,M	IDV3,MDV4)
Exh Cert Fuel	(s): Indo X Phi M85 CN	2 Diesel: G LPG			or 40CFR 86.	113-90	or -94
Fuel Type(s):	Dedicated				_		
Hybrid: Type	Gasoline <u>X</u> D						
Valves/Cyl: _	7 <u>V-6</u> Disp 2 Lt_X Mid_ Rea	Rat	ed HP: _2	05 @	4400 RPM		эт
				200	D_A THE FI		·
Exhaust Contr	ol System and Spe	ecial Features					·
			(Use ab	brevia	tions per sa	Æ J1930 SE	EP91)
Engine Code	Vehicle Models	Trans. Type	ETW	DPA	Ignition	EGR	Catalytic
(also list	(if coded see		1	or	:	•	
CA/49ST/50ST	attachment)	M-Manual	Test Wt	RLHP		•	•
744TR00A/N	E-150	A			F7UC-MA	F65E-AA	F7UA-JA &
	RVL		6000	16.5			F7UA-DA
	RVL		6000	17.9*			
	CMT		6000	16.5			
	CWL		6000	17.9*			
744UR00A/N	E-250	u			F7UC-NA	11	11
	RVL		6000	15.8			
	RVL		6000	17.2*			
	SVL		6500	15.1			
744MROOA/N	SVL E-250	11	6500	16.5*	17717A T D	11	п
I AMMONITE :	RVL	•	7000	16 4	F7UC-LA	**	u
	RVL		7000 7000	16.4			
	SVL		7000	17.8* 15.5			
	SVL		7000	16.9*			
	CUTAWAY		7000	26.5			
	CUTAWAY		7000	27.9*			

ENGINE FAMILY: VFM4.2J8G1EK

ISSUED: 6-26-96 REVISED: 10-02-96

^{*} WITH AIR CONDITIONING

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Engine Code Types: CA X 49S	Mfgr. <u>FORD</u>	MOTOR COMPANY	Ext	naust Engi	ne Fan	nily: <u>VFM4.2</u>	2J8G1EK	
Evap Std: 50K	Engine Code 1	Types: CA <u>X</u> 49S_	50 S Eva	ap Emissic	ns Fan	ily: <u>VFM1155</u>	AYMGB	,
Note Note	Exh Std: Tier	r-0 Tier-1 <u>X</u>	TLEV LEV	ULEV	z	EV EPA T	'IER-O	TIER-1
Exh Cert Fuel(s): Indo_X	Evap Std: 50	OK Useful Lif	e with R/L <u>X</u>	In-Use E	xh Std	: Full In Us	e Alt	In UseX
Exh Cert Fuel(s): Indo_X	Veh Class(es)	: PC LDT1	LDT2 MDV	'1 MDV	2	MDV3_X_ MD	V4MDV	75
M85	Single Cert S	Std for Multi-Cla	ss Eng Fam: <u>N</u>	<u>/A</u> (sp	ecify:	N/A, LDT1,M	DV1,MDV2,M	IDV3,MDV4)
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-6 Displacement: 4.2L(255) Liters (Cubic Inches) Valves/Cyl: 2 Rated HP: 205 @ 4400 RPM Engine: Front X Mid Rear Drive: Fwd RWD X 4WD-FT 4WD-PT Exhaust Control System and Special Features	Exh Cert Fuel	l(s): Indo <u>X</u> Ph	2 Diesel:	13 CCR 22	82	or 40CFR 86.	113-90	or -94
## Hybrid: Type A B C , APU Cycle (eg, Otto, Diesel, Turbine) Engine Config V-6	Fuel Type(s):	: Dedicated	Flex Fuel	Dual-Fuel		Other (anogi ful	
Name	Hybrid: Type							
Engine: Front_X_MidRearDrive: FwdRWD_X_4WD-FT4WD-FT Exhaust Control System and Special Features							les)	
Cuse abbreviations per SAE J1930 SEP91							4WD-1	PT
Engine Code Vehicle Models Trans. Type ETW DPA Ignition EGR Catalytic (also list (if coded see A-Automatic or or (ECM/PCM) System Converter CA/49ST/50ST attachment) M-Manual Test Wt RLHP Part No. Part No. Part No. Part No. 744TR06A/N E-150 A	Exhaust Contr	col System and Spe	ecial Feature <u>s</u>					
(also list (if coded see A-Automatic M-Manual or or (ECM/PCM) System Converter CA/49ST/50ST 744TR06A/N E-150 A F7UC-MC F65E-AA F7UA-JA & F7UA-JA & F7UA-JA & F7UA-DA RVL 6000 16.5 F7UC-MC F65E-AA F7UA-DA RVL 6000 17.9* F7UC-MC F7UA-DA CWL 6000 17.9* F7UC-NC " RVL 6000 17.9* " " 744UR06A/N E-250 " F7UC-NC " " RVL 6000 17.2* F7UC-NC " " SVL 6500 15.1 F7UC-LC " " 744MR06A/N E-250 " F7UC-LC " " RVL 7000 16.4 TOC-LC " " RVL 7000 15.5 TOC-LC " " RVL 7000 15.5 TOC-LC TOC-LC " " </td <td></td> <td></td> <td></td> <td>(US SEU)</td> <td>DIEATU</td> <td>crons ber sa</td> <td>E 01930 SI</td> <td>2P 9 1)</td>				(US SEU)	DIEATU	crons ber sa	E 01930 SI	2P 9 1)
CA/49ST/50ST attachment) M-Manual Test Wt RLHP Part No. Part No. Part No. 744TR06A/N E-150 A F7UC-MC F65E-AA F7UA-JA & F7UA-DA RVL 6000 17.9* CWL 6000 16.5 CWL 6000 17.9* 744UR06A/N E-250 " F7UC-NC " " " RVL 6000 17.2* SVL 6500 15.1 SVL 6500 15.1 SVL 6500 16.5* 744MR06A/N E-250 " F7UC-LC " " " RVL 7000 16.4 RVL 7000 17.8* SVL 7000 15.5 SVL 7000 16.9* CUTAWAY 7000 26.5	Engine Code		·	ï	:		:	-
744TR06A/N E-150 A F7UC-MC F65E-AA F7UA-JA & RVL 6000 16.5 F7UA-DA F7UA-DA F7UA-DA RVL 6000 17.9* CWL 6000 17.9* CWL 6000 17.9* CWL 6000 17.9* 744UR06A/N E-250 " F7UC-NC " " " RVL 6000 17.2* SVL 6500 15.1 SVL 6500 16.5* 744MR06A/N E-250 " F7UC-LC " " " RVL 7000 16.4 RVL 7000 17.8* SVL 5VL 7000 16.9* CUTAWAY 7000 26.5		•	·	1	:	!	: -	:
RVL 6000 16.5 F7UA-DA RVL 6000 17.9* CWL 6000 17.9* CWL 6000 17.9* CWL 6000 17.9* RVL 6000 17.9* RVL 6000 15.8 RVL 6000 17.2* SVL 6500 15.1 SVL 6500 15.1 SVL 6500 16.5* RVL 7000 16.4 RVL 7000 17.8* SVL 7000 15.5 SVL 7000 16.9* CUTAWAY 7000 26.5	CA/49ST/50ST	attachment)	M-Manuai	Test Wt	RLHP	Part No.	Part No.	Part No.
RVL	744TR06A/N	E-150	A			F7UC-MC	F65E-AA	F7UA-JA &
CWL 6000 16.5 CWL 6000 17.9* 744UR06A/N E-250 " F7UC-NC " " " " " " " " " " " " " " " " " " "	·	RVL		6000	16.5			F7UA-DA
CWL 6000 17.9* 744UR06A/N E-250 " F7UC-NC " " " RVL 6000 15.8 RVL 6000 17.2* SVL 6500 15.1 SVL 6500 16.5* 744MR06A/N E-250 " F7UC-LC " " " RVL 7000 16.4 RVL 7000 17.8* SVL 7000 15.5 SVL 7000 16.9* CUTAWAY 7000 26.5					17.9*			
744UR06A/N E-250 " F7UC-NC " " " " " " " "								
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RVL 6000 17.2* SVL 6500 15.1 SVL 6500 16.5* 744MR06A/N E-250 " F7UC-LC " " " RVL 7000 16.4 RVL 7000 17.8* SVL 7000 15.5 SVL 7000 15.5 SVL 7000 16.9* CUTAWAY 7000 26.5	744UR06A/N		"			F7UC-NC	11	11
SVL 6500 15.1 SVL 6500 16.5* 744MR06A/N E-250 " F7UC-LC " " " RVL 7000 16.4 RVL 7000 17.8* SVL 7000 15.5 SVL 7000 16.9* CUTAWAY 7000 26.5								
SVL 6500 16.5* 744MR06A/N E-250 " F7UC-LC " " " RVL 7000 16.4 RVL 7000 17.8* SVL 7000 15.5 SVL 7000 16.9* CUTAWAY 7000 26.5								
744MR06A/N E-250 " F7UC-LC " " " RVL 7000 16.4 RVL 7000 17.8* SVL 7000 15.5 SVL 7000 16.9* CUTAWAY 7000 26.5								
RVL 7000 16.4 RVL 7000 17.8* SVL 7000 15.5 SVL 7000 16.9* CUTAWAY 7000 26.5	744MR06A/N		τι	6300	10.5	F7IIC-LC	11	tt .
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SVL 7000 15.5 SVL 7000 16.9* CUTAWAY 7000 26.5								
SVL 7000 16.9* CUTAWAY 7000 26.5								
CUTAWAY 7000 26.5								
CUTAWAY 7000 27.9*		CUTAWAY						
		CUTAWAY		7000	27.9*			

^{*} WITH AIR CONDITIONING

ENGINE FAMILY: VFM4.2J8G1EK ISSUED: 7-26-96 REVISED: 10-02-96 OCT 0 3 1993

E.O.#<u>A-10-718</u>

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. <u>FORD</u>	MOTOR COMPANY	Exh	aust Engi	ne Fam	ily: <u>VFM4.2</u>	J8G1EK	
Engine Code T	ypes: CA <u>X</u> 49S_	50S Eva	ap Emissio	ns Fam	ily: <u>VFM1155</u>	AYMGB	
Exh Std: Tier	-0 Tier-1_X_	TLEVLEV	ULEV	z:	EV EPA T	IER-0	TIER-1
Evap Std: 50	K Useful Life	e with R/L_X_	In-Use E	xh Std	: Full In Us	e_ Alt	In Use
Veh Class(es)	: PCLDT1	LDT2 MDV	1 MDV	2	MDV3_X_ MD	V4MDV	5
Single Cert S	td for Multi-Clas	ss Eng Fam: <u>N</u>	<u>/A</u> (sp	ecify:	N/A, LDT1,M	DV1,MDV2,M	DV3,MDV4)
	Dedicated	G LPG Flex Fuel	Other (sp Dual-Fuel	ecify)			
Hybrid: Type	Gasoline_X D: A B C					-	
Valves/Cyl: _		Rat	ed HP: <u>2</u>	05 @	4400 RPM		PT
Exhaust Contr	ol System and Spe	ecial Features			R. SFL Z	Æ J1930 SE	
Engine Code	Vehicle Models	Trans. Type	ETW	DPA		•	Catalytic
(also list CA/49ST/50ST	(if coded see attachment)	A-Automatic M-Manual	:		(ECM/PCM) Part No.	•	:
744TR10A/N	E-150	A	,		F7UC-MD	F65E-AA	
	RVL		6000	16.5			F7ÚA-DA
	RVL		6000 6000	17.9*			
	CWL CWL		6000	16.5 17.9*			
744UR10A/N	E-250	п	0000	17,5	F7UC-ND	u	10
, 1101011, 11	RVL		6000	15.8	1,00 112		
	RVL		6000	17.2*			
•	SVL		6000	15.1			
	SVL		6500	16.5*			
744MR10A/N	E-250	и			F7UC-LD	lf	Ħ
	RVL		7000	16.4			
	RVL		7000	17.8*			
	SVL		6500	15.5			
	SVL		7000	16.9*			
	CUTAWAY		7000	26.5			
	CUTAWAY		7000	27.9*			

* WITH AIR CONDITIONING

ENGINE FAMILY: VFM4.2J8G1EK ISSUED:

REVISED: JAN 2 4 1997