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### State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-10-713 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:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: VFM4.028G2HK Displacement: 4.0 Liters (244 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Dual Three Way Catalytic Converters 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 non-methane organic gases (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) TLEV certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	Miles	NMOG	<u></u>	<u>N0x</u>	НСНО_	CO (20°F)
3751-5750	50,000	0.160	4.4	0.7	0.018	12.5
	100,000	0.200	5.5	0.9	0.023	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for NMOG reflect application of a 0.98 RAF for 1997 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

### FORD MOTOR COMPANY

Loaded Vehicle <u>Weight (lbs.)</u>	Miles	NMOG	<u></u>	<u>NOx</u>	<u>нсно</u>	CO (20°F)
3751-5750	50,000	0.144	2.1	0.3	0.001	4.1
	100,000	0.170	2.5	0.4	0.001	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is vertifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average 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 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 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.).

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

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 26 day of July 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

Mfgr. FORD	MOTOR COMPANY	Exl	naust Eng	ine Far	nily: <u>VFM4.</u>	)28 <u>G2HK</u>	
Engine Code T	Types: CA <u>X</u> 49S_	50s					
Evap Emission	s Family: VFM112	0AYMED					
Exh Std: Tier	r-0 Tier-1	TLEV_X LEV	ULEV	z	EV EPA T	IER-0	TIER-1
Evap Std: 50	K <u>X</u> Useful Lif	e with R/L	In-Use E	xh Std	: Full In Us	e <u>X</u> Alt	In Use
Veh Class(es)	: PC LDT1	LDT2 <u>X</u> MDV	1 MDV	72	MDV3MD	V4 MD	V5
Single Cert S	td for Multi-Cla	ss Eng Fam: <u>N</u>	<u>/A</u> (sp	ecify:	N/A, LDT1,M	DV1,MDV2,	MDV3,MDV4)
Exh Cert Fuel	(s): Indo Ph:	<u>X</u> Diesel:	13 CCR 22	82	or 40CFR 86.	113-90	or -94
	M85 CNG Dedicated :	G LPG Flex Fuel	Other (sp Dual-Fuel	ecify)			
Hybrid: Type	Gasoline_X D: A B C	iesel M85_ _, APU Cycl	CNG e (eg,	LPG	Other ( Diesel, Turb	specify)_ ine)	
Valves/Cyl: Engine: Fron	V-Block Disposed V-Block Disposed Dispo	Rat ar Dri	ed HP: _2 ve: Fwd_ 2TWC.2HO	00 @ RW 2 <b>S(2)</b> EGI	<u>5250</u> RPM D <u>X</u> 4WD-FT	4WD-1	
Engine Code	Vehicle Models	Trans. Type	ETW	DPA	Ignition	l FCD	Catalytic
(also list	(if coded see	A-Automatic	or	or			Converter
CA/49ST/50ST	attachment)	M-Manual		•	Part No.	Part No.	Part No.
758VR00A	EXPLORER 2WD	A(TCB)	4250	13.3	F77C-AHA	F77E-EA	F77A-ED(LH)
758VR00A	EXPLORER 2WD	A(TCB)	4500	13.3	alt		F77A-CC(RH)
758WR00A	EXPLORER 4WD	A(TCB)	4500	13.3		н	11
758WR00A	EXPLORER 4WD	A(TCB)	4750	13.3		II	11
758VR05A	EXPLORER 2WD	A(TCB)	4250		F77F-AHB	n	11
			4500	13.3	11	11	n
	EXPLORER 4WD	17 16	4500	13.3	tr		U
			4750	13.3	11	н	lt.
758VR06A	EXPLORER 2WD	н в	4250		F77F-AHC	11	IF
			4500	13.3	н	l†	11
	EXPLORER 4WD	1P H	4500	13.3	11	18	п
		u n	4750	13.3	11	II.	П
758VR10A	EXPLORER 2WD	11 11	4250	13.3	F77F-AHD	"	II.
			4500	13.3	τι	11	11
	EXPLORER 4WD	H H	4500	13.3	n	(1	tt.

Engine Family: <u>VFM4.028G2HK</u> 20.09.17.02-1

Issue Date: 07-12-96

Revised: OCT 2 4 1996

" " 4750 13.3 "

e.o.#<u>A-10-713</u>

# 1997 MODEL YEAR 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>VFM4.0</u>	28G2HK	
Engine Code T	ypes: CA <u>X</u> 49S_	50S					
Evap Emission	s Family: <u>VFM112</u> 0	DAYMED					
Exh Std: Tier	-0 Tier-1	TLEV_X_ LEV_	ULEV_	ZE	EV EPA T	IER-0	TIER-1
Evap Std: 50	K <u>X</u> Useful Life	e with R/L	In-Use Ex	ch Std:	Full In Use	≘ <u>X</u> Alt	In Use
Veh Class(es)	: PC LDT1	LDT2 <u>X</u> MDV	ı MDV:	2	MDV3 MDV	V4MDV	75
Single Cert S	td for Multi-Clas	ss Eng Fam: <u>N</u>	/A_ (spe	cify:	N/A, LDT1,M	OV1,MDV2,M	IDV3,MDV4)
Exh Cert Fuel	(s): Indo Phi	2 <u>X</u> Diesel: 2 G LPG (			or 40CFR 86.1	113-90	or -94
<pre>Fuel Type(s):</pre>	Dedicated_Dedicated_Dedica	Flex Fuel I	Dual-Fuel		Other (	specify)	
Hybrid: Type	A B C					_	
Engine Config Valves/Cyl:	V-Block Disp	lacement: <u>4.</u> Rat				es)	
Engine: Fron	z_ t <u>X</u> Mid Rea	ar Dri	ve: Fwd_	RW	D <u>X</u> 4WD-FT	4WD-1	PT
Exhaust Contro	ol System and Spe	ecial Features					
			(Use ab	brevia	tions per SA	E J1930 SI	EP91)
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.
758VR05A	EXPLORER 2WD	A(TCB)	4250	13.3	F77F-AHA	F77E-EA	F77A-ED(LH)
758VR05A	EXPLORER 2WD		4500	13.3	" alt	:F77E-FA	F77A-CC(RH)
758VR05A	EXPLORER 4WD	A(TCB)	4500		н		l‡
75 <b>8VR05A</b>	EXPLORER 4WD	A (TCB)	4750	13.3	Ħ	11	u

Engine Family: VFM4.028G2HK

Issue Date: 07-12-96 Revised: JUL 29 1888 20.09.17.02-2

R/C #4.0-107

e.o.#<u>A-10-</u>713

# 1997 MODEL YEAR . SUPPLEMENTAL DATASHEET EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD 1	MOTOR COMPANY	Exh	aust Engi:	ne Fam:	ily: <u>VFM4.0</u>	28G2HK	
Engine Code Ty	ypes: CA <u>X</u> 49S_	50S					
Evap Emissions	s Family: VFM1120	DAYMED					
Exh Std: Tier	-0 Tier-1	TLEV_X_ LEV_	ULEV_	ZE	V EPA TI	ER-0	TIER-1
Evap Std: 501	K <u>X</u> Useful Life	e with R/L	In-Use Ex	h Std:	Full In Use	<u>X</u> Alt	In Use
Veh Class(es)	: PC LDT1	LDT2 <u>X</u> MDV:	ı MDV	2	MDV3 MDV	74 MDV	75
Single Cert St	td for Multi-Clas	ss Eng Fam: N	A (spe	ecify:	N/A, LDT1,MI	OV1,MDV2,M	DV3,MDV4)
Exh Cert Fuel	(s): Indo Ph2	2 <u>X</u> Diesel: 3 G LPG (			or 40CFR 86.1	13-90	or -94
Fuel Type(s):	Dedicated I	Flex Fuel I	Dual-Fuel		<b>.</b>		
Hybrid: Type	Gasoline_X_ D: A B C						
Valves/Cyl:	<u>V-Block</u> Disp 2 t_X Mid Rea	Rat	ed HP: <u>2</u>	00 @	5250 RPM		?T
Exhaust Contro	ol System and Spe	ecial Features		,			
			(Use ab	previa	tions per SA	E 01330 21	5 <b>P</b> 91)
Engine Code	Vehicle Models	Trans. Type	ETW	DPA	Ignition	EGR	Catalytic
	(if coded see				(ECM/PCM)		
CA/49ST/50ST	attachment)	M-Manual	Test Wt	RLHP	Part No.	Part No.	Part Nc.
758VR06A	EXPLORER 2WD	A (TCB)	4250	13.3	F77F-AHC	F77E-EA	F77A-ED(LH)
758 <b>VR06A</b>	EXPLORER 2WD	A (TCB)	4500		" alt	:F77E-FA	
758VR06A	EXPLORER 4WD	A (TCB)	4500		11	ti .	tt
758VR06A	EXPLORER 4WD	A (TCB)	4750	13.3	f#	И	П

Engine Family: <u>VFM4.028G2HK</u> 20.09.17.02-3

Issue Date: 07-12-96

Revised: JUL 29 1333

R/C #4.0-114

# 1997 MODEL YEAR SUPPLEMENTAL DATASHEET EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. <u>FORD M</u>	OTOR COMPANY	Exha	aust Engir	e Fami	ly: <u>VFM4.02</u>	8G2HK	
Engine Code Ty	pes: CA <u>X</u> 49S	_ 50S					
Evap Emissions	Family: VFM1120	AYMED					
Exh Std: Tier-	0 Tier-1	TLEV_X LEV_	ULEV_	ZE	V EPA TI	ER-0	rier-1
Evap Std: 50F	X Useful Life	with R/L	In-Use Ex	h Std:	Full In Use	X Alt	In Use
Veh Class(es):	PCLDT1	LDT2_X_ MDV1	MDV2		MDV3 MDV	74 MDV	5
Single Cert St	d for Multi-Clas	s Eng Fam: <u>N</u> /	<u>'A</u> (spe	cify:	N/A, LDT1,MD	V1,MDV2,M	DV3,MDV4)
Exh Cert Fuel	(s): Indo Ph2 M85 CNG	X Diesel: 1	.3 CCR 228 Other (spe	2 o	r 40CFR 86.1	.13-90	or -94
Fuel Type(s):	Dedicated F	lex Fuel I	Dual-Fuel_	<del></del>	Other (s	specify)	
Hybrid: Type	A B C	, APU Cycle	e (eg, (	otto, I	iesel, Turb	ine)	
Troleron /Carl . 1	<u>V-Block</u> Displ	Rate	ed HP: 20	00 @	5 <u>250</u> RPM		
	X Mid Rea						
Exhaust Contro	ol System and Spe	cial Features	2 TWC.ZHO2 (Use ab)	s(1)EGR breviat	SFI.	E J1930 SI	EP91)
Engine Code	Vehicle Models	Trans. Type	ETW	DPA			Catalytic
(also list	(if coded see	A-Automatic	or		(ECM/PCM)		
CA/49ST/50ST	attachment)	M-Manual	Test Wt	RLHP	Part No.	Part No.	Part No.
758VR11A	EXPLORER 2WD	A (TCB)			F77F-AHE		
		» /man\	4500 4500	13.3 13.3		:F77E-FA	F77A-CC(RH)
758WR11A	EXPLORER 4WD	A (TCB)	4500 4750	13.3		rı	n

Engine Family: VFM4.028G2HK

Issue Date: 07-12-96 Revised: NOV 0 5 1996