### State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-10-709 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: VFM4.028G1FK 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 Weight (lbs.) Mile		Non-Methane Hydrocarbons	Carbon <u>Monoxide</u>	Nitrogen Oxides	Monoxide (20°F)	
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.)		Hydrocarbons	<u>Monoxide</u>	<u>Oxides</u>	Monoxide (20°F)
3751-5750	50,000	0.10	1.6	0.1	5.1
	100,000	0.13	1.9	0.11	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 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.).

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 27 day of June 1996.

R. B. Summerfield

Assistant Division Chief Mobile Source Division

# E.O.# A-10-709 1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer:	Ford Motor Con	npany	Exha	ust Er	igine Family:	VFM4.028G1	!FK
Evap Standard	d: 50K Us	eful Life with F	R/L <u>X</u>	E	vap Family:	VFM1120AY	MED
Exhaust Std:	Tier 0 _ Tier 1 <u>&gt;</u>	C TLEV _ LEV	/_UL	EV_	ZEV_; EPA	Tier 0 Ti	er 1
Vehicle Class(	(es): PC _ LDT	1 _ LDT2 <u>X</u>	MDV	I _ M	DV2 _ MDV3	MDV4 N	/IDV5 _
Single Cert St	d for Multi-Class	Eng Fam: <u>N/</u>	A (spe	cify N/	A, LDT1, MD	√1, MDV2, M	DV3, MDV4)
Exh Cert Fuel	(s): Indo _ Ph2 M85 _ CNG	X Diesel: '	13 CCF er (spe	R 2282 cify) _	_ or 40 CFR	86.113-90	or -94 _ 
Fuel Type(s):	Dedicated F CNG LNG _	lex-Fuel _ Du _ LPG _ C	ıal-Fue ther (s	l Ga pecify)	asoline <u>X</u> Di	esel M85 .	_
Hybrid: Type	A B C	_, APU Cycle	(e.g., C	Otto, D	iesel, Turbine)	)	
Engine Config	: <u>V-6</u>	Liter (CID):	4.0 (2	44)			
Engine: Front	X Mid. Rea	r Drive	e: FW	D_ F	RWD X 4WE	)-FT _ 4WD	-PT <u>X</u>
Exhaust ECS (Use abbrevi	& Special Featur ations per SAE J	res: <u>SFI/HO2S</u> 1930, Sep 91)	/EGR/	TWC(2	1)/211025		
Engine Code	Vehicle Models	Trans. Type	ETW	DPA	Ignition	EGR System	Catalyst
(California)		M-Manual			Part No.	Part No.	Part No.
757RR00A/N	Explorer 4X2	M5			F77F-AFA	F37E-CA	F67A-PB
	P225/70R15 Tir 2 Door SWB 4 Door LWB All Other Tires 2 Door SWB 4 Door LWB	4	1250 1500 1250 1500	11.9 12.4			
757RR00A/N	l Explorer 4X4	M5					
	All Tires 2 Door SWB 4 Door LWB	4	4500 4750	13.3 13.3			

ENGINE FAMILY: VFM4.028G1FK

ISSUED: 3-22-96 REVISED: 10-23-96

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

Manufacturer:	Ford Motor Comp	pany	Exha	ust En	gine Family:	VFM4.028G1	FK
Evap Standard	: 50K Use	eful Life with F	₹/L <u>X</u>	E	vap Family: \	√FM1120AYÑ	MED
Exhaust Std: 1	Fier 0 _ Tier 1 <u>X</u>	_TLEV LE\	/_UL	EV _ 2	ZEV _; EPA	Tier 0 Tie	er 1
Vehicle Class(	es): PC _ LDT	1 _ LDT2 <u>X</u>	MDV	_ ME	0V2 _ MDV3	_ MDV4 _ N	1DV5_
Single Cert Sto	i for Multi-Class E	Eng Fam: <u>N/</u>	A_(spe	cify N/	A, LDT1, MD	V1, MDV2, MI	DV3, MDV4)
Exh Cert Fuel(	s): Indo Ph2 M85 _ CNG	X Diesel: _ LPG _ Oth	13 CCF ner (spe	R 2282 ecify) _	_ or 40 CFR	86.113-90	or -94 _ ——
Fuel Type(s):	Dedicated FI	ex-Fuel Du LPG C	uai-Fue Other (s	I Ga specify)	asoline <u>X</u> Di	iesel M85 _ 	_
Hybrid: Type	A_B_C_	, APU Cycle	(e.g., (	Otto, D	iesel, Turbine	)	-
Engine Config	·	Liter (CID)					
Engine: Front	X Mid Rear	Driv	re: FW	'D _ F	RWD X 4WI	D-FT _ 4WD	-PT <u>X</u>
Exhaust ECS	& Special Featur ations per SAE J	es: <u>SFI/HO29</u>	S/EGR/	TWC	2)/2H02S	•	
Engine Code	Vehicle Models	A-Automatic	ETW	DPA	(FCIVI)	dystein	Catalyst Part No.
(California)		M-Manual			Part No.		
757RR05A/N	Explorer 4X2	M5			F77F-AFB	F37E-CA	F67A-PB
	<b>P225/70R15 Tires</b> 2 Door SWB		4250	11.9			
	4 Door LWB		4500	11.9			
	All Other Tires 2 Door SWB		4250	12.4			
	4 Door LWB		4500	12.4			
757RR05A/N	Explorer 4X4	M5					
	All Tires		4500	422			
	2 Door SWB 4 Door LWB		4500 4750	13.3 13.3			
758BR05A/N	Explorer 4X2	A			F77F-AJB	F37E-CA	F67A-PB
	P225/70R15 Tires		4050	44.0			
	2 Door SWB 4 Door LWB		4250 4500	11.9 11.9			
	All Other Tires		1050	40.4			
	2 Door SWB 4 Door LWB		4250 4500	12.4 12.4			
758BR05A/N	Explorer 4X4	Α					
	All Tires 2 Door SWB 4 Door LWB		4500 4750	13.3 13.3			
ENGINE FAMILY:	VFM4.028G1FK	20.09	.17.02	2		R/C 4.0-	104,115

ISSUED: 7-31-96 REVISED: 10-23-96

E.O.# <u>A-10-</u>709

#### 1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer	Manufacturer: Ford Motor Company Exhaust Engine Family: VFM4.028G1FK								
Evap Standa	Evap Standard: 50K Useful Life with R/L X Evap Family: VFM1120AYMED								
Exhaust Std:	Exhaust Std: Tier 0 _ Tier 1 X TLEV _ LEV _ ULEV _ ZEV _ ; EPA Tier 0 _ Tier 1								
Vehicle Class	Vehicle Class(es): PC _ LDT1 _ LDT2 X MDV1 _ MDV2 _ MDV3 _ MDV4 _ MDV5 _								
Single Cert S	td for Multi-Class	Eng Fam: N	<u>l/A</u> (sp	ecify N	/A, LDT1, MD	V1, MDV2, M	IDV3, MDV4)		
Exh Cert Fue	l(s): Indo _ Ph2 M85 _ CNG				2 _ or 40 CFF				
Fuel Type(s):	Dedicated F	lex-Fuel C LPG	ual-Fue Other (	el G specify	asoline <u>X</u> D	iesel M85	_		
Hybrid: Type	A B C _	_, APU Cycle	e (e.g.,	Otto, D	iesel, Turbine	e)	_		
Engine Confi	g: <u>V-6</u>	Liter (CID)	): <u>4.0 (</u>	244)					
Engine: Front	X Mid Rea	r Dri	ve: FV	/D _ F	RWD X 4WI	D-FT 4WD	-PT <u>X</u>		
Exhaust ECS (Use abbrev	& Special Featuriations per SAE	res: <u>SFI/HO2</u> J1930, Sep 91	S/EGR	/TWC£	27/2H62S				
Engine Code	Vehicle Models	Trans. Type		DPA	Ignition (PCM)	EGR System	Catalyst		
(California)		M-Manual			Part No.		Part No.		
757RR10A/N	Explorer 4X2	M5			F77F-AFC	F37E-CA	F67A-PB		
	P225/70R16 Tires 2 Door SWB 4 Door LWB Ail Other Tires 2 Door SWB 4 Door LWB		4250 4500 4250 4500	11.9 11.9 12.4 12.4					
757RR10A/N	Explorer 4X4	М5							
	All Tires 2 Door SWB 4 Door LWB		4500 4750	13.3 13.3					
758BR10A/N	Explorer 4X2	Α			F77F-AJC	F37E-CA	F67A-PB		
	P225/70R15 Tires 2 Door SWB 4 Door LWB All Other Tires		4250 4500	11.9 11.9					
	2 Door SWB 4 Door LWB		4250 4500	12.4 12.4					
758BR10A/N	Explorer 4X4	Α							
	All Tires 2 Door SWB 4 Door LWB		4500 4750	13.3 13.3					
ENGINE FAMILY:	VFM4.028G1FK	20.09.	17.02	- 2		R/C 4	.0-123		
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ISSUED: 10-23-96

REVISED: