State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-620 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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That Ford Motor Company 1995 model-year exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: SFM3.028G1FK <u>Displacement</u>: 3.0 Liters (183 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
On-Board Diagnostic II

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.)	Miles	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>
3751-5750	50,000	0.32	4.4	0.7
	100,000	0.40	5.5	n/a

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

Loaded Vehicle	<u>Miles</u>	Non-Methane	Carbon	Nitrogen
Weight(lbs.)		<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>
3751-5750	50,000	0.12	0.9	0.2
	100,000	0.14	0.9	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 gas (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 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 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)(6.1) ("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.

Executed at El Monte, California this day

n /

of November, 1994.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1995 MODEL YEAR SUPPLEMENTAL DATA SHEET EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD MOT	OR COMPANY	Exhau	st Engine	Famil	y: <u>sfm3.028</u>	G1FK	
Engine Code Type							
Exh Std: Tier-0_							
Evap Std: 50K_}							
Veh Class(es):							
Single Cert Std							
Hybrid: Type A Engine Config _ Valves/Cyl: 2 Engine: Front_	Dedicated F Gasoline X Di B C Displ	lex Fuel Desel M85, APU Cycle acement: Rate r Driv	ual-Fuel CNG (eg, 0) L (183) ed HP:14 ve: Fwd	LPG_tto, D LOG RWD	Other (siesel, Turbiiters (Cubic 5000 RPM X 4WD-FT	pecify)ne) : Inches) 4WD-P	r_x_
_		Trans.		DPA I		EGR	Catalytic
(also list	Vehicle Models (if coded see attachment)	A-Automatic	or	or	(ECM/PCM)	System	
556S ROOA/N	Mazda 4x2	A4			F57F-ANA	F3DE-AA F37E-CA F37E-BA E6AE-BA	
SUPER CAB -	SC SWB		3750	11.2			
SHORT WHEELBASE	^		3750*	12.3			
	Ranger 4x2 SC SWB		3750*	12.3			
556R R00A/N		A4			F57F-AMA	11	u
JJOR ROOM,	> RC LWB		3875	12.4			
REGULAR CAB -			3875*	13.6			
LONG WHEELBASI	E RC SWB		3750	12.4			
			3875* 4000	13.6 12.4			
·	SC SWB	•	4000 4000*	13.6			
	Ranger 4x4		4000	20.0			
	RC LWB		3875	12.4			
	110 1111		3875*	13.6			
	RC SWB		3750	12.4			
			3875*	13.6			
	SC SWB		4000 4000	12.4 13.6			
≠ with air co	nditioning						

20.09.17.02 - 1

Engine Family: SFM3.028G1FK

Revised: SEP 9 1994

Issued:

1995 MODEL YEAR SUPPLEMENTAL DATA SHEET EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. <u>FORD M</u>	OTOR COMPANY	Exha	ust Engine	e Fami	1y: <u>SIM3.02</u>	8G1FK	
Engine Code Ty	pes: CA <u>X</u> 49S	_ 50S Evap	orative E	missio	ns Family: S	FM1045AYPO)A
	0 Tier-1_X_						
Evap Std: 50k	(<u>X</u> Useful Life	with R/L	In-Use Ex	h Std:	Full In Use	X Alt I	n Use
Veh Class(es):	PCLDT1	LDT2_X_ MDV1	MDV2	м	DV3 MDV4	MDV5_	_
	td for Multi-Clas						
Fuel Type(s):	Dedicated F	LPG (Flex Fuel Sesel M85	Other (spe Oual-Fuel_ CNG	LPG_	Other (specify)	
Hybrid: Type	A B C	APU Cycl	e (eg, (Otto, I	Diesel, Turb	ine)	
Valves/Cyl: Engine: Fron	V-6Displ 2t_XMidRea	Rat Dri	ed HP: <u>la</u> ve: Fwd_	40 (a RW)	5000 RPM D <u>X</u> 4WD-FT	4WD-E	
Exhaust Contr	ol System and Spe	cial Features	(Use ab	brevia	tions per SA	E J1930 SE	P91)
(also list	Vehicle Models (if coded see attachment)	A-Automatic	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
555S R00A/N	Mazda 4x2	M5	<u> </u>		F57F-AJA	F3DE-AA F37E-CA F37E-BA E6AE-BA	
	SC SWB		3750*	12.3			
	Ranger 4x2 SC SWB		3750*	12.3			
555R R00A/N	Mazda 4x4		3750	12.4			
	RC LWB	•	3875*	13.6			
	RC SWB		3750	12.4			
	KO DWD		3875*	13.6			
	SC SWB		4000	12.4			
			4000*	13.6	•		
	Ranger 4x4						
•	RC LWB		3750	12.4			•
			3875*	13.6			
	RC SWB		3750 3750*	12.4 13.6			
	C.C. CLIP		3730 * 4000	12.4			
	SC SWB		4000*	13.6			

ENGINE FAMILY: SFM3.028G1FK ISSUED:

* with air conditioning

REVISED: SEP 9 1994

Mfgr. FORD M	OTOR COMPANY	Exha	ust Engin	e Fami	ly: <u>SFM3.02</u>	8G1FK	
Engine Code Ty	pes: CA <u>X</u> 49S	_ 50S Evap	orative E	missio	ns Family: <u>S</u>	FM1045AYPO	A
Exh Std: Tier-	0 Tier-1_X_	TLEV LEV_	ULEV_	ZE	PA TI	ER-0T	ER-1
Evap Std: 50K	X Useful Life	with R/L	In-Use Exl	h Std:	Full In Use	Alt I	n Use
Veh Class(es):	PCLDT1	LDT2_X MDV1	MDV2	м	DV3MDV4	MDV5	,
Single Cert St	d for Multi-Clas	s Eng Fam: <u>N/</u>	A (spe	cify:	N/A, LDT1,MD	V1,MDV2,MD	V3,MDV4)
Exh Cert Fuel(Fuel Type(s):	s): Indo <u>X</u> Ph2 M85 CNG Dedicated F Gasoline <u>X</u> Di	Diesel: 1 LPG O	3 CCR 228 ther (spe	2ocify)	r 40CFR 86.1	13-90 o	r -94
Hybrid: Type	Gasoline <u>X</u> D1 A B C	APU Cycle	CNG	tto, I	iesel, Turb	ine)	
Valves/Cyl: <u>2</u> Engine: Front	V-6 Displ X Mid Rea	r Dri	re: ve: Fwd Twc(2)SF1	RWI	0 X 4WD-FT	4WD-P'	
Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	or	or	Ignition (ECM/PCM) Part No.	System	Catalytic Converter Part No
556S ROOA/N	Mazda 4x2	A 4	<u> </u>		F57F-ANA	F3DE-AA F37E-CA F37E-BA E6AE-BA	F57A-EC F57A-ED
	SC SWB		3875*#	12.3			
556RR00A/N	Mazda 4x4	A4	•		F57F-AMA	n	e
	RC SWB		3875#	12.0			
555RR00A/N	Mazda 4x4	м5			F57F-AHA	n	tt.
	PC TWR		3875#	12.0			

^{*} with air conditioning # R/C 105

	TOR COMPANY						
Engine Code Typ	es: CA <u>X</u> 49S	50S Evapo	rative Em	ission	s Family: SI	FM1045AYP0/	1
	Tier-1_X_						
	X Useful Life						
	PCLDT1						
Single Cert Sto	d for Multi-Class	Eng Fam: N/	A(spec	cify: N	I/A, LDT1,MD	V1,MDV2,MD	V3,MDV4)
Exh Cert Fuel(s): Indo X Ph2	Diesel: 1 LPG O	3 CCR 2282	2 or cify)	40CFR 86.1	13-90 0	r -94
Fuel Type(s):	DedicatedF	lex FuelD	ual-Fuel_	— T PG	Other (s	pecify)	
Hybrid: Type	A B C	, APU Cycle	e (eg, 0	tto, D	16561, 1610		
Valves/Cyl: <u>2</u> Engine: Front	X Mid Rea	r Dri	ve: Fwd	RWI	X 4WD-FT	4WD-P	T_X_
Exhaust Contro	ol System and Spe	cial Features_	TWC(2)SFI (Use abl	.7HO2S brevia	EGR HOLS	<i>ව8<u>)</u> 2</i> E J1930 SE	P91)
Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	or	or	Ignition (ECM/PCM) Part No.	System	Converter
	Mazda 4x2	A4		·	F57F-ANB	F3DE-AA F37E-CA F37E-BA E6AE-BA	F57A-EC F57A-ED
	SC SWB		3750 3875*	11.2 12.3			
	Ranger 4x2 SC SWB		3750*	12.3	F57F-AMB	н	n
556R R05A/N	Mazda 4x4 RC LWB	<u>A</u> 4	3875	12.0	1371 - 122		
	RC SWB		3875* 3875 3875*	13.2 12.0 13.2			÷
	SC SWB		4000 4000*	12.0 13.2			
	Ranger 4x4			_			
	RC LWB		3875	12.0			
			3875*	13.2			
	RC SWB	•	3750	12.0			
			3875*	13.2			
	SC SWB		4000 4000*	12.0 13.2			

* with air conditioning

Mfgr. FORD MO	TOR COMPANY	Exhau	ıst Engine	Famil	y: <u>SFM3.028</u>	3G1FK	
Engine Code Typ	es: CA <u>X</u> 49S	50S Evapo	orative Em	nission	s Family: <u>S</u>	FM1045AYP0	<u> </u>
Exh Std: Tier-0	Tier-1_X_	TLEVLEV	ULEV	_ ZEV	EPA TIE	ER-0 T	[ER-1
Evap Std: 50K_	X Useful Life	with R/L	In-Use Exh	Std:	Full In Use_	Alt I	n Use
Veh Class(es):	PCLDT1	LDT2 X MDV1	MDV2_	MD	V3 MDV4	MDV5_	
Single Cert Std	for Multi-Class	Eng Fam: N/	A (spec	ify: N	/A, LDT1,MD	V1,MDV2,MD	V3,MDV4)
): Indo <u>X</u> Ph2 N85 CNG_	;	1 Dec.1	•			
Fuel Type(s):	Dedicated F	Lex Fuel D	CNC	T DC	_ Other (s	pecify)	
Hybrid: Type A	A B C	APU Cycle	e (eg, U	cco, D	reser, raro.		
Valves/Cyl: 2 Engine: Front	X Mid Rea	r Driv	ve: Fwd_	RWD	X 4WD-FT	4WD - P'	т <u>х</u>
Exhaust Contro	l System and Spe	cial Features_	TWC(2) SFI (Use abb	.2H02S reviat	EGR HOLS ions per SA	OBDZ E J1930 SE	P91)
(also list	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	or		Ignition (ECM/PCM) Part No.		Catalytic Converter Part No.
555S R05A/N		M5			F57F-AJB	F3DE-AA F37E-CA F37E-BA E6AE-BA	
	SC SWB		3750*	12.3			
	Ranger 4x2			10.0			
	SC SWB		3750*	12.3	F57F-AHB	Ħ	n
555R R05A/N	Mazda 4x4	M5	3875	12.0			
	RC LWB		3875*	13.2			
			3750	12.0			
	RC SWB		3875 *	13.2			
			4000	12.0		•	
	SC SWB		4000*	13.2			
	Ranger 4x4						
	RC LWB		3875	12.0			
			3875*	13.2			
	RC SWB		3750	12.0			
			3750*	13.3			
	SC SWB		4000 4000*	12.0 13.			
* with air c	onditioning						

Mfgr. FORD N	MOTOR COMPANY	Exh	aust Engi	ne Fami	lly: <u>SFM3.0</u>	28G1FK	
	pes: CA <u>X</u> 49S_						
Exh Std: Tier-	0 Tier-1_X_	TLEV LEV	ULEV	ZE	V EPA T	IER-0	TIER-1
Evap Std: 50k	X Useful Life	e with R/L	In-Use E	xh Std:	Full In Us	e Alt	In Use
Veh Class(es):	PCLDT1	LDT2 <u>X</u> MDV	1 MDV	2 M	DV3MDV	4 MDV5	· <u></u>
Single Cert St	d for Multi-Cla	ss Eng Fam: <u>N</u>	<u>/A</u> (sp	ecify:	N/A, LDT1,M	DV1,MDV2,M	DV3,MDV4)
Exh Cert Fuel((s): Indo X Ph:	2 Diesel: 1	13 CCR 22	82 o	r 40CFR 86.	113-90	or -94
Fuel Type(s):	Dedicated	G LPG (Flex Fuel 1	Dual-Fuel				
Hybrid: Type	Gasoline <u>X</u> D ABC	ieselM85 _, APU Cycl	CNG e (eg,	_ LPG_ Otto, D	Other (desel, Turb	specify) ine)	
Engine Config Valves/Cyl: <u>2</u> Engine: Front	V-6 Disp X Mid Rea	lacement: 3. Rat ar Dri	OL (183) ed HP: <u>1</u> ve: Fwd_	I 40 @ RWD	iters (Cubi 5000 RPM X 4WD-FI	c Inches)	Υ <u>Χ</u>
Exhaust Contro	ol System and Spe	ecial Features			. EGR HO25		EP91)
	Vehicle Models (if coded see attachment)		ETW or Test Wt	DPA or RLHP	(ECM/PCM)		
556S RO5A/N	Mazda 4x2	A4			F57F-ANB	F3DE-AA F37E-CA F37E-BA E6AE-BA	
	SC SWB		3750*	12.3		EOAL-DA	
556S ROOA/N	Mazda 4x2	A4			F57F-ANA	11	н
	SC SWB		3750*	12.3			
555R ROOA/N	Ranger 4x4	M5			F57F-AHA	n	11
	RC SWB		3875*	13.6			
555R R05A/N	Ranger 4x4	, м5			F57F-AHB	н	n
	RC SWB		3875*	13.6			

Engine Family: SFM3.028G1FK

Issued:

Revised: MAR 1 5 1995

^{*} with air conditioning

Mfgr. FORD MOTOR		Exhaust Engi				
Engine Code Types:	CA_X 49S 50S	Evaporative	Emission	ns Family: _S	FM1045AYP0	<u> </u>
	Tier-1 X TLEV					
	Useful Life with R/					
	LDT1 LDT2_X_					
Single Cert Std fo	or Multi-Class Eng Fa	m: <u>N/A</u> (sp	ecify: N	N/A, LDT1,MD	V1,MDV2,MD	V3,MDV4)
	Indo_X Ph2 Die M85 CNG LPG	3 Oction (a)		r 40CFR 86.1	13-90 0	r -94
	dicated Flex Fuel			Other (s	specify)	
	B C, AP					
Valves/Cyl: <u>2</u> Engine: Front <u>X</u>	-6 Displacement Mid Rear	Drive: Fwd	RWD	X 4WD-FT	4WD-P	
Exhaust Control S	ystem and Special Fe	atures <u>TWC<i>(z</i>)SI</u> (Use a	T.2H02S bbreviat	EGR //0/- Lions per SA	<i>ORNI</i> E J1930 SE	P91)
(also list (i	hicle Models Trans. f coded see A-Auto ttachment) M-Ma	matic or	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
556S R15A/N Ran	ger/Mazda 4x2 A4			F57F-CJA	F3DE-AA F37E-CA F37E-BA E6AE-BA	F57A-EC F57A-ED
so	SWB	3750 3750*	11.2 12.3			
	nger/Mazda 4x4 A4 LWB	3875 3875*	120 13.2@	F57F-CLA	. "	
R(C SWB (Mazda only) (Ranger only)	3875 3750 3875*	12.0 12.0 13.2@			
S	C SWB	4000 4000*	12.0 13.2@	. •		

* with air conditioning a DPA = 13.3 with P215/75R15 tires

Engine Family: SFM3.028G1FK Issued: Revised: JUN 6 1995

Mfgr. FORD M	OTOR COMPANY	Exha	ust Engir	ne Fami	ly: <u>SFM3.02</u>	28GIFK	
Engine Code Ty	pes: CA <u>X</u> 49S	_ 50S Eva	orative E	Emissio	ns Family:_	FM1045AYP	0A
Exh Std: Tier-	0 Tier-1_X_	TLEVLEV_	ULEV_	ZE	/ EPA TI	ER-0	TIER-1
	XX Useful Life						
Veh Class(es):	PCLDT1	LDT2_X_ MDV	MDV2	2 M	DV3MDV	MDV5	
	td for Multi-Clas						
	(s): Indo <u>X</u> Ph2 M85 CNG	: LPG \	orner (spe		r 40CFR 86.1	113-90	or -94
	Dedicated FGasoline_X_ Di	1 M/9/5	CINIC	1.10	Other (:	specify)	
	A B C						
1 /0 1	<u>V-6</u> Displ 2 t <u>X</u> Mid_ Rea	K 2 T	ea Hr. I	411 14	3000 KIII		T_X_
Exhaust Contro	ol System and Spe	cial Features	TW(Z) SF (Use ab	[,2HO2S breviat	EGR Hozs	<i>ові</i> Е J1930 SI	EP91)
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	(ECM/PCM)	EGR System Part No.	Catalytic Converter Part No.
555S R15A/N	Ranger/Mazda 4x2	2 M5			F57F-CHA	F3DE-AA F37E-CA F37E-BA E6AE-BA	
	SC SWB		3750*	13.2@			
CCCD DIEA/N	Ranger/Mazda 4x	4 M5			F57F-CGA		
555R R15A/N	RC LWB	• ••	3875	12.0			-
	10 Dn2	*	3875*	13.2@	_		
	RC SWB		3750	12.0			
			3875*	13.2@	•.		
-	SC SWB		4000	12.0			
	JU 0##		4000*	13.2@			

* with air conditioning a DPA = 13.3 with P215/75R15 tires