#### State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-10-652 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 1996 model-year exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: TFM2.318G1EK Displacement: 2.3 Liters (140 Cubic Inches)

2 5

1 5

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converter
Heated Oxygen Sensors (two)
Exhaust Gas Recirculation
Sequential Multiport Fuel Injection

Yehicle 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 <u>Weight(lbs.)</u>	Miles	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Carbon Monoxide (20°F)
0-3750	50,000 100,000	0.25 . 0.31	3.4 4.2	0.4	10.0 n/a

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

Loaded Vehicle Weight(1bs.)	<u>Miles</u>	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Carbon <u>Monoxide (20°F)</u>
0-3750	50,000	0.12	0.9	0.2	4.0
	100,000	0.14	1.0	0.3	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 the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

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 20 day of July 1995.

( )

R. B. Summerfield Assistant Division Chief Mobile Source Division

# 1996 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>TFM2.3</u>	18G1EK	
Engine Code	Types: CA <u>X</u> 49S_	50S Eva	porative :	Emissi	ons Family:_	TFM1045AYP	3A
Exh Std: Tie	r-0 Tier-1_X_	TLEV LEV_	ULEV_	ZI	EV EPA TI	[ER-0 1	IER-1
Evap Std: 50	OK <u>X</u> Useful Life	e with R/L	In-Use Ex	ch Std	: Full In Use	e Alt I	n Use
Veh Class(es)	): PC LDT1_X_	LDT2 MDV	1 MDV:	2 !	MDV3 MDV4	4 MDV5_	
Single Cert	Std for Multi-Clas	ss Eng Fam: N	/ <u>A</u> (spe	ecify:	N/A, LDT1,MI	OV1,MDV2,ME	V3,MDV4)
Exh Cert Fue	l(s): Indo <u>X</u> Ph2	2 Diesel: : 3 LPG			or 40CFR 86.3	L13-90 c	r -94
Fuel Type(s)	: Dedicated I Gasoline_X D:	Flex Fuel	Dual-Fuel		Other (	specify)	
Hybrid: Type	e A B C	, APU Cycl	e (eg,	Otto,	Diesel, Turb	ine)	
Valves/Cvl:	g <u>I-4</u> Disp. 2 nt <u>X</u> Mid_ Rea	Rat	ed HP: _1	12 @	4800 RPM		r_X_
Exhaust Cont:	rol System and Spe	ecial Features			s&)EGR tions per SA	E J1930 SE	P91)
	Vehicle Models						
	(if coded see			•	(ECM/PCM)		Converter
CA/49ST/50ST	attachment)	M-Manual	Test Wt	RLHP	Part No.	Part No.	Part No.
550TR15A/N	Ranger/Mazda 4x2	2 A4			F57F-CDA	5F7E-BA	F57A-DC
	RC LWB		3375	11.2			
	RC SWB	•	3375	11.2		•	
	RC LWB		3500	12.3*			
	RC SWB		3500	12.3*			
549TR15A/N	Ranger/Mazda 4x2	· M5		•	F57F-CBA	11	u
	RC LWB		3375	11.2			
	RC SWB		3375	11.2			
	RC LWB		3375	12.3*			
	RC SWB		3375	12.3*			
	SC SWB		3625	11.2			
	SC SWB		3625	12.3*			

Engine Family: TFM2.318G1EK Issued: 7-05-95

Revised:

MAY 9 9 1008

<sup>\*</sup> with air conditioning

# 1996 MODEL YEAR SUPPLEMENTAL DATA SHEET EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA KEQUIREMENTS PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. <u>FORD 1</u>	MOTOR COMPANY	EXU	aust Engi	ne rami	1y: <u></u>	LOGIER	·
Engine Code Ty	ypes: CA <u>X</u> 49S_	50S Eva	porative	Emissio	ns Family:	CFM1045AYPE	3A
Exh Std: Tier	-0 Tier-1_X_	TLEV LEV	ULEV	ZE	VEPA TI	ER-0 T	TER-1
Evap Std: 501	K <u>X</u> Useful Life	e with R/L	In-Use E	xh Stđ:	Full In Use	Alt I	n Use
Veh Class(es)	: PC LDT1_X_	LDT2 MDV	1 MDV	2 M	DV3 MDV4	MDV5_	_
Single Cert S	td for Multi-Clas	ss Eng Fam: <u>N</u>	/A_ (sp	ecify: 1	N/A, LDT1,MI	V1., MDV2, MD	V3,MDV4)
Exh Cert Fuel	(s): Indo_X Phi M85 CN	Diesel:			r 40CFR 86.1	.13-90 <u> </u>	or -94
Fuel Type(s):	Dedicated_Dedicated	Flex Fuel	Dual-Fuel		Other (s	specify)	
Hybrid: Type	A B C	_, APU Cycl	e (eg,	Otto, D	iesel, Turb	ine)	
Valves/Cvl:	<u>I-4</u> Disp	Rat	ed HP: _1	12 @	<u>4800</u> RPM		
Engine: Fron	t_X Mid_ Rea	ar Dri	.ve: Fwd_	RWD	X 4WD-FT	4WD-P	r_X_
Evhaust Contro	ol System and Spe	ecial Features	TWC. SE	т. нозя	2) EGR		
Exhause conci-	or byscem and sp.	JOEGE FORDELOS	(Use ab	breviat	ions per SA	E J1930 SE	P91)
Engine Code	Vehicle Models	Trans. Type	ETW	DPA	Ignition		
(also list	(if coded see	A-Automatic	or	or	(ECM/PCM)		Converter
CA/49ST/50ST	attachment)	M-Manual	Test Wt	RLHP	Part No.	Part No.	Part No.
549QR15A/N	Ranger/Mazda 4x	4 M5			F57F-CAA	5F7E-BA	F57A-DC
!	RC LWB		3625				
:	RC SWB		3625				
:	RC LWB		3625*				
				13.3@			
	RC SWB		3625*				
				13.3@			

<sup>@</sup> with P215 tires

<sup>\*</sup> with air conditioning

### 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

/fgr. <u>FORE</u>	MOTOR COMPANY	Exh	aust Engi	ne Fam	ily: <u>TFM2.3</u>	18G1EK	
Engine Code	Types: CA_X_49S	50S Eva	porative	Emissi	ons Family:	TFM1045AYP	BA
Exh Std: Tie	er-0 Tier-1_X_	TLEVLEV	ULEV	z	EV EPA T	IER-0	rier-1
Evap Std: 5	OK <u>X</u> Useful Life	with R/L	In-Use E	xh Std	: Full In Use	e Alt :	In Use
Veh Class(es	s): PC LDT1_X_	LDT2 MDV	1 MDV	2	WDV3 WDV4	4 MDV5	_
Single Cert	Std for Multi-Clas	s Eng Fam: <u>N</u>	<u>/A</u> (sp	ecify:	N/A, LDT1,MI	OV1,MDV2,MI	OV3,MDV4)
Exh Cert Fue	el(s): Indo X Ph2				or 40CFR 86.1	L13-90 (	or -94
Fuel Type(s)	: Dedicated I		Dual-Fuel				
Hybrid: Typ	Gasoline <u>X</u> Di be A B C						
Engine Confi	.g <u>I-4</u> Disp	lagement. 2	3T. /140\		Litera <i>(C</i> ubi	c Inches)	
Valves/Cyl:					5000 RPM	c inches/	
	ont <u>X</u> MidRea					4WD-P	T_X_
Exhaust Cont	rol System and Spe	cial Features	TWC. SF	I, HO2:	Á)egr		
			(Use ab	brevia	tions per SA	E J1930 SE	P91)
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.
550TR16A/N	Ranger/Mazda 4x2	A4			F57F-CDB/	F57E-BA	F57A-DC
	RC LWB		3375	11.2	F57F-CDC		
	RC SWB		3375	11.2			
	RC LWB		3500	12.3*			
	RC SWB		3500	12.3*			
549TR16A/N	Ranger/Mazda 4x2	M5			F57F-CBB/	U	11
	RC LWB		3375	11.2	F57F-CBC/		
	RC SWB		3375	11.2	F67F-YA		
	RC LWB		3375	12.3*			
	RC SWB		3375	12.3*			
	SC SWB		3625	11.2			
	SC SWB		3625	12.3*			

ENGINE FAMILY: TFM2.318G1EK

ISSUED: 7-28-95 REVISED: 1-30-96 | MAY 2 9 1996

<sup>\*</sup> with air conditioning

### 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. <u>FORD</u>	MOTOR COMPANY	Exh	aust Engi	ne Fam	ily: <u>TFM2.3</u>	18G1EK	- <del></del>
Engine Code T	ypes: CA <u>X</u> 49S_	50S Eva	porative	Emissi	ons Family:_	TFM1045AYP	3A
Exh Std: Tier	-0 Tier-1_X_	TLEVLEV	ULEV	zı	EV EPA T	IER-0 7	TER-1
Evap Std: 50	K <u>X</u> Useful Life	with R/L	In-Use E	xh Std	: Full In Use	e Alt I	n Use
Veh Class(es)	: PC LDT1_X_	LDT2 MDV	1 MDV	2	MDV3 MDV	4 MDV5_	<del></del>
Single Cert S	td for Multi-Clas	ss Eng Fam: <u>N</u>	<u>/A</u> (sp	ecify:	N/A, LDT1,M	OV1,MDV2,MI	)V3,MDV4)
Exh Cert Fuel	(s): Indo X Ph2	Diesel: :			or 40CFR 86.3	113-90 c	or -94
Fuel Type(s):	Dedicated	Flex Fuel	Dual-Fuel		Other (	specify)	
Hybrid: Type	A B C	, APU Cycl	e (eg,	Otto,	Diesel, Turb	ine)	
Engine Config Valves/Cyl: _	<u>I-4</u> Disp	lacement: 2.	3L (140)	13 @	Liters (Cubi 5000 RPM	c Inches)	
Engine: Fron	t <u>X</u> Mid Rea	ar Dri	ve: Fwd_	RW	DX 4WD-FT	4WD-P'	r_ <u>X</u> _
Exhaust Contr	ol System and Spe	ecial Features	TWC, SF	IHO2	SQ) EGR		······································
					tions per SA		P91)
∠ngine Code	Vehicle Models	Trans. Type	ETW	DPA	Ignition		
(also list	(if coded see	A-Automatic	or	or	(ECM/PCM)		
CA/49ST/50ST	attachment)	M-Manual	Test Wt	RLHP	Part No.	Part No.	Part No.
549QR16A/N	Ranger/Mazda 4x4	1 M5			F57F-CAB/		F57A-DC
	RC LWB		3625	12.0	F57F-CAC/		
	RC SWB		3625	12.0	F67F-XA		
	RC LWB		3625	13.2*			
	RC SWB		3625	13.2*			

ENGINE FAMILY: TFM2.318G1EK ISSUED: 7-28-95 REVISED: 1-30-96 | MAY 2 9 1996

<sup>\*</sup> with air conditioning

### 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. <u>FORD</u>	MOTOR COMPANY	Exh	aust Engi	ne Fam:	ily: <u>TFM2.3</u>	18G1EK	
Engine Code T	ypes: CA <u>X</u> 49S_	50S Eva	porative	Emissio	ons Family:_	TFM1045AYPI	3A
Exh Std: Tier	-0 Tier-1_X_	TLEVLEV	ULEV	ZE	CV EPA T	IER-0 T	TIER-1
Evap Std: 50	K <u>X</u> Useful Life	e with R/L	In-Use E	xh Std:	Full In Use	a Alt I	n Use
Veh Class(es)	: PC LDT1_X_	LDT2 MDV	1 MDV	2 M	IDV3 MDV	4 MDV5_	
Single Cert S	td for Multi-Clas	ss Eng Fam: <u>N</u>	<u>/A</u> (sp	ecify:	N/A, LDT1,MI	OV1,MDV2,MD	)V3,MDV4)
Exh Cert Fuel	(s): Indo_X Ph2	P Diesel:			r 40CFR 86.1	L13-90 c	or -94
Fuel Type(s):	Dedicated	Flex Fuel	Dual-Fuel		Other (	enecify)	
Hybrid: Type	A B C						
	<u>I-4</u> Disp				liters (Cubic 5000 RPM	c Inches)	
Valves/Cyl: Engine: From	t <u>X</u> Mid Rea					4WD-P7	r_x_
Exhaust Contr	ol System and Spe	cial Features	TWC. SF	I. HO2S	(2) EGR		
					cions per SA		
_	Vehicle Models		•	DPA	Ignition	EGR	Catalytic
	(if coded see		•	•	(ECM/PCM)	-	
CA/49ST/50ST	attachment)	M-Manual	Test Wt	RLHP	Part No.	Part No.	Part No.
649QR10A/N	Ranger/Mazda 4x4	M5			F67F-XB	F57E-BA	F57A-DC
1	RC LWB		3625	12.0			
1	RC SWB		3625	12.0			
	RC LWB		3625	13.2*			
1	RC SWB		3625	13.2*			

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<sup>\*</sup> with air conditioning

### 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORE	MOTOR COMPANY	Ext	naust Engi	.ne Fam	ily: <u>TFM2.3</u>	18G1EK	
Engine Code	Types: CA_X_ 49S	50S Eva	aporative	Emissi	ons Family:_	TFM1045AYP	BA
Exh Std: Tie	er-0 Tier-1_X_	TLEV LEV	ULEV	Z	EV EPA T	ER-0	TIER-1
Evap Std: 5	OK <u>X</u> Üseful Life	with R/L	In-Use E	xh Std	: Full In Use	e Alt 1	In Use
Veh Class(es	e): PC LDT1_X_	LDT2 MDV	71 MDV	2	MDV3 MDV4	4 MDV5_	
Single Cert	Std for Multi-Clas	s Eng Fam: <u>N</u>	<u>//A</u> (sp	ecify:	N/A, LDT1,MI	OV1,MDV2,MI	)V3,MDV4)
Exh Cert Fue	el(s): Indo <u>X</u> Ph2	Diesel:			or 40CFR 86.1	L13-90 c	or -94
Fuel Type(s)	: Dedicated F	Flex Fuel	Dual-Fuel		053 (-		
Hybrid: Typ	Gasoline <u>X</u> Di e A B C						
Valves/Cyl:	g <u>I-4</u> Displ _2 nt_X Mid_ Rea	Rat	ed HP: <u>1</u>	13 @	5000 RPM		r_ <u>x</u> _
Exhaust Cont	rol System and Spe	cial Features			(2) EGR tions per SA	E J1930 SE	P91)
angine Code	Vehicle Models	Trans. Type	ETW	DPA	Ignition	EGR	Catalytic
(also list	(if coded see		:	or			Converter
	: :	M-Manual	:	!			
650TR10A/N	Ranger/Mazda 4x2	A4		•	F57F-CDD	F57E-BA	F57A-DC
	RC LWB		3375	11.2			
	RC SWB		3375	11.2			
	RC LWB		3500	12.3*			
	RC SWB		3500	12.3*			
649TR10A/N	Ranger/Mazda 4x2	M5			F67F-YB	H.	н
	RC LWB		3375	11.2			
	RC SWB		3375	11.2			
	RC LWB		3375	12.3*			
	RC SWB		3375	12.3*			
	SC SWB		3625	11.2			
	SC SWB		3625	12.3*			

<sup>\*</sup> with air conditioning