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#### State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-10-752 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 1998 model-year Ford Motor Company exhaust emission control systems are certified as described below for light-duty trucks:

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

<u>Fuel Type (Certification Fuel)</u>: Gasoline (Indolene)

Engine Family: WFMXT02.5AAA Displacement: 2.5 Liters (154 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converters (two) 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>NOx</u>	НСНО_	CO (20°F)
0-3750	50,000	0.125	3.4	0.4	0.015	10.0
	100,000	0.156	4.2	0.6	0.018	n/a

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

Loaded Vehicle Weight (lbs.)	Miles	NMOG	<u></u>	<u>NOx</u>	<u>НСНО</u>	<u>CO (20°F)</u>
0-3750	50,000	0.079	1.0	0.1	0.001	4.6
	100,000	0.096	1.3	0.2	0.001	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 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 and Smog Index 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 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"

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 37 day of July 1997.

R. B. Summerfield, Chief

Mobile Source Operations Division

## 1998 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page \_\_\_\_ of \_\_\_\_ PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Evap Std: 10 Exh Std: Tie Veh Class(es	FORD MOTOR  OOK_X Useful  er-0 Tier-1  s): PC LDT  Proc: Equiv  el(s): Indo X  M85	Life witTLEV_ 1_X_LDR/L	h R/L <u>X</u> X_ LEV_ T2 M Test Pier	Evap Eng ULEV DV1 MD	rine Family: _ ZEV; EPA T DV2 MDV3	WFMXE0105 Tier-0 MDV4	Tier-1 MDV5 
Engine Cont:	M85	Dispia earD	cement:_ rive: FW		HICEI4	/ 1WD-PT	_cdbic inche
Engine Code/	Veh. Models (all models are 4x2 *)	Trans.		(Use abb	Ign. Sys.	EGR Syst.	Catalyst
A N A N A N	MAZDA SC SWB MAZDA SC SWB MAZDA RC SWB MAZDA RC SWB RANGER SC SWB RANGER SC SWB RANGER RC SWB RANGER RC SWB RANGER RC LWB RANGER RC LWB	n n n n	3500@ 3625 3375@ 3500 3625 3375 3375 3375 3500	11.3 12.4 11.3 12.4 11.3 12.4 11.3 11.3 12.4	F87F-TA	F57EBA	F87ABD
* RC = REGU @ Test at n Certificati NMOG: CO: NOx: HCHO:	for all tires TLAR CAB, SC = 1 Lext higher ETW Lon Standards 50K/100K 0.125/0.156 3.4/4.2 0.4/0.6 0.015/0.018- 2.5/2.0/.05 10.0	SUPER CA	R14, P22 B, SWB =	5/70R15) Short Whe	el Base, LWB	= Long Wh	eele Base

ENGINE FAMILY: WFMXT02.5AAA ISSUED: 5-19-97

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# SUPPLEMENTAL DATA SHEET

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Engine	Veh. Models	Trans.	Equiv.		Ign. Sys.	EGR	Catalyst
Code/	(all models	Type:	Test	DPA	(ECM/PCM)	Syst.	Part No.
CALIF	are 4x2 *)	A-Auto	Weight	#	Part No.	Part No	i
	1	M-Man.	!		-12A650-	-9D475-	-5E212-
2.5L							
849TR06 N	MAZDA RC SWB	М	3375	11.3	F87F-Te	   F57EBA	F87ABD
A	MAZDA RC SWB	"	3375@	12.4			"
	MAZDA SC SWB	n n	3625	11.3	"	i n	11
A	MAZDA SC SWB	н	3625	12.4	ıt .	u u	17
N	MAZDA SC4DSWB	11	3625@	11.3	п	i •	τr
A	MAZDA SC4DSWB	H	3750 /	12.4	j n	j "	"
N	RANGER RC SWB	ir .	3375	11.3	i n	i ir	п
N	RANGER RC LWB	ır .	3375	11.3	ft	j "	11
A	RANGER RC SWB	" /	3375	12.4	и	l n	IP.
A	RANGER RC LWB		3500	12.4	п	l n	н
И	RANGER SC SWB	"	3500@	11.3	li ii	"	11
A	RANGER SC SWE	lt .	3625	12.4	11	п	и
И	RANGER SCASWB	11	3625	11.3	u	l u	п
A	RANGER &C4SWB	н	3750	12.4	п	rı	п
						,	
* RC = REGU	for all tires of LAR CAB, SC = SPER CAB 4 Door,	SUPER CAE	3, SWB =	Short Whee	el Base, LWB =	- Long Whe	eele Base
	ext higher ETW	1				Í	
Certificati	on Standards						
	50K/100K						
NMOG:	0.125/0.156			İ	μ		
CO:	3.4/4.2					1	
NOx:	0.4/0.6						

ENH EVAP: 2.5/2.0/.05

0.015/0.018-

COLD CO: 10.0

### SUPPLEMENTAL DATA SHEET

Engine Code/ CALIF	Veh. Models (all models are 4x2 *)	Trans. Type: A-Auto M-Man.	Equiv. Test Weight	DPA #	Ign. Sys. (ECM/PCM) Part No12A650-	EGR Syst. Part No -9D475-	!
2.5L							
849TR06 N	MAZDA RC SWB	М	3375	11.3	F87F-TC	F57EBA	F87ABD
A	MAZDA RC SWB	"	3375@	12.4	11	"	"
N	MAZDA SC SWB	"	3625	11.3	"	"	11
A	MAZDA SC SWB	"	3625	12.4	11	"	'''
N	MAZDA SC4DSWB	"	3625@	11.3	"	"	i "
A	MAZDA SC4DSWB	17	3750	12.4	"	"	"
N	RANGER RC SWB	11	3375	11.3	"	"	"
N	RANGER RC LWB	II	3375	11.3	11	11	"
A	RANGER RC SWB	11	3375	12.4	11	11	"
A	RANGER RC LWB	" "	3500	12.4	11		"
N	RANGER SC SWB	"	3500@	11.3	··	"	"
A N	RANGER SC SWB	" "	3625	12.4	"	11	"
A A	RANGER SC4SWB	11	3625	11.3	"	"	H H
A	LYMGER SC42MD		3750	12.4		"	•
850TR06 N	MAZDA RC SWB	A	3375@	11.3	F87F-VC	F57EBA	E073 DD
A	MAZDA RC SWB	"	3500	12.4	11	F5/EBA	ro/ADU
N	RANGER RC SWB		3500	11.3	11	. ,,	**
N	RANGER RC LWB		3500	11.3	"	,,	11
A	RANGER RC SWB	**	3500	12.4	rr	"	H
A	RANGER RC LWB	11	3500@	12.4	IT	17	11
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		İ	ĺ				
	]						
				ĺ			
			-				
# Same DPA	for all tires (	P205/75R	14, P225	/70R15)	_	]	
* RC = REGU	LAR CAB, SC = S	UPER CAB	, SWB =	Short Whee	:l Base, LWB =	Long Whe	ele Base
	PER CAB 4 Door,	SC4 = S	UPER CAB	4 Door			
e lest at n	ext higher ETW	ļ					
		Į					
Certificati	on Standards						
oor carroact.	50K/100K			-			
NMOG:	$\frac{30071000}{0.125/0.156}$			ŀ		<b> </b>	
	,		1	1			

ENH EVAP: 2.5/2.0/.05

3.4/4.2

0.4/0.6

0.015/0.018-

COLD CO: 10.0

co:

NOx:

HCHO:

ENGINE FAMILY: WFMXT02.5AAA