State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-280 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 1985 model-year Ford Motor Company exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks and medium-duty vehicles:

Engine Family		acement thes (Liters)	Exhaust Emission Control Syste (Special Features)		
FFM4.9T1HGG6	300	(4.9)	Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst		

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the certification emission standards for this engine family to be listed on the window decal required by "California Assembly-Line Test Procedures for 1983 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles":

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
4000-5999	0.50	9.0	1.0

The following are the certification emission values for the above engine family:

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
4000-5999	0.27	6.9	0.7

Name of the second

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.15 of Title 13, California Administrative Code which includes repair or replacement of emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered 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" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13. California Administrative Code, Section 2036).

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 30^{44} day of July, 1984.

K. D. Drachand, Chief Mobile Source Division

Manufacturer	Ford Motor Company		Executive Order N	o. A-10-2	80
Engine Family FFM4.9TlHGG6		Evaporative Famil	y5GM/50	GQ	
•			Engine CID (Liter	s) 4.9L	
ABBREVIATIONS					
Ignition System		Exhaust E	missions Control Sys	tem Sp	ecial Features
CA-Centrifugal A EEC-Electronic E EI-Electronic Ig ESAC-Electronic Control VA-Vacuum Advanc VR-Vacuum Retard Fuel System CFI, CL, DID, DII nV-nVenturi Carbo V-Variable Vento	ngine Control nition Spark Advance e P, EFI, MFI uretor	AIV-Air I CL-Closed EGR-Exhau EM-Engine OC-Oxidat TOC-Trap TOP-Trap TR-Therma	st Gas Recirculation Modification ion Catalyst System Oxidizer Continual Oxidizer Periodical	CF DII DII EF: IC MF:	V-Combustion Chamber Valva I-Central Fuel Injection D-Diesel Injection- Direct P-Diesel Injection- Prechamber I-Electronic Fuel Injection - Intercooler I-Mechanical Fuel Injection -Turbocharged
VEHICLE MODELS: F-150 4x2 Regula Super	r Cab (SWB/LW)		Re	0 4x2 egular Van uper Van	(SWB/LWB) (LWB)
F-150 4x4	l ar Cab (SWB/LW		· E-25 R	lub Wagon 0 4x2 egular Van uper Van	(LWB)
F-250 4x2 Regula F-250 4x4	ar Cab (I,WB)		BRON	CO 4x4 egular Cab	(SWB/LWB)
Regula	ar Cab (LWB)				

DRIVE	SYSTEM:	FRONT	Engine/	REAR	-Wheel Drive	
	Engine F	amily	F4.9TGG			
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1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manuf	acturer <u>F</u>	ord Mot	or Comp	any	Page Engine	2	
Engir	ne Family	FFM4.	9T1HGG	5	Code	4-52G-R00	В
ECS (Special Features) <u>A</u> I	P/EGR/I	EGS/TWC	CID (Liter)- Type _	4.9L (300))
Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System EEC IV	Fuel System 1V	EGR Valve	Label Ident
				Part No.	Part No.	Part No.	Part
-52G-R00B	F-150 4x2			E4EF-UA	E5TE-VA	E3TE-RA	CEI
	RCS RCL	C5- 054	3750 3875				
	RCS RCL SCS SCL	C6- 013	3875 4000 4250 4250				
	·						
						,	
Comments	See page one fo	r abbrevi	ations a	nd evaporative	e emission fam	ilv identific	ation.
Please ref	er to manufacture If two test we	er's HP 1	ist for	correct dyno	test HP setting	as based on m	nodel an
*Add 10% t	o dyno test HP f	or air co	nditioni	ng usage.			
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198 5AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manuf	acturerF	ord Mot	tor Com	pany	Page Engine	Page 3			
Engin	e FamilyF	FM4.9T	lHGG6	· · · · · · · · · · · · · · · · · · ·	Code	4-52L-R00E	3		
ECS (Special Features)		AIP/EGR	/EGS/TWC	CID (Liter)- Type _	4.9L (300)			
Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System EEC IV	Fuel System	EGR Valve	Label Ident		
				Part No.	Part No.	Part No.	Part		
-52L-R00B	E-150 4x2	• •		E4EF-YA	E5TE-VA	E3TE-EA	CEL		
	RVS RVL SVL CWL	C6- 003	4250 4250 4500 5000						
	E-250 4x2						l 		
	RVL RVL SVL	C6- 003	4750 5000 5000	·					
-									

*Add 10% to dyno test HP for air conditioning usage.

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198 5 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

	enger Cars <u>X</u> Li				uty Vehicles Page	x_ Gas	Diese1	
Manufacturer Ford Motor Company Page 4 Engine Family FFM4.9TlHGG6 Code 4-51R-R001 ECS (Special Features) AIP/EGR/EGS/TWC Type 4.9L (300)								
Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System Part No.	Fuel System Part No.	EGR Valve	Label Ident. Part N	
4-51R-R00B	F-150 4x4 RCS	M4	4250	E4EF-NA	E5TE-VA	ЕЗТЕ-ВА	CEL	
	RCL SCL RCS RCL	(3.25) M4 (6.32)	4750 4250					
	SCL RCS RCL	M4 . (6.69	4250	·				
	F-250 4x2 RCL	м3 (3.26	4250					
	RCL RCL RCL	M4 (6.32 M4 (6.69	4250 4750					
-	F-250 4x4 RCL BRONCO 4x4 RCS RCL	M4 (6.69) M4 (6.69)	4250					

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E.O. #A-10-280 1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Passenger Cars X Light-Duty Trucks X Medium-Duty Vehicles X Gas Diesel Ford Motor Company Page Engine 4-52R-ROOB Engine Family FFM4.9TlHGG6 Code CID (Liter)-4.9L (300) ECS (Special Features) AIP/EGR/EGS/TWC Type

Engine Code	Vehicle Models (If Coded see attachment)	Trans. A/T	Equiv. Test Weight	Ign. System EEC IV Part No.	Fuel System 1V Part No.	EGR Valve	Label Ident. Part No
4-52R-R00B	F-150 4x4 RCS RCL SCL	C6- 013	4250 4500 4750	E4EF-UA	E5TE-VA	E4TE-CA	CEL
	F-250 4x2 RCL	C6- 013	4250			·	
	F-250 4x4 RCL	C6- 013	4750				
_	BRONCO 4×4	C6- 013	4750				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

*Add 10% to dyno test HP for air conditioning usage.

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198 5AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

	Manu	facturer _	For	d Motor	Compa	ny	Page					
	Engi	ne Family _	FFM	14.9T1H	GG6		Engine Code 4-51\$-R02B					
	ECS	(Special Fe	atures)	AIP,	/EGR/EG	S/TWC	CID (Liter)- Type _	4.9L (30	4.9L (300)			
	Engine Code	Vehicle (If Code attachm	ed see	Trans.	Equiv. Test Wei g ht	Ign. System EEC IV	Fuel System 1V	EGR Valve	Label Ident.			
						Part No.	Part No.	Part No.	Part N			
4-51\$	-R02B	F-150	4x2			E4EF-ACA	E5TE-UA	E4TE-EA				
			RCS RCL SCS SCL	M3 (3.26)	3750 3875 4250 4250				CEL			
			RCS RCL SCS SCL	M4 (3.25	3750 3875 4250 4250							
			RCS RCL	M4 (6.32	3875 4000	·						
			RCS RCL	M4 (6.69	3875 4000							
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*Add 10% to dyno test HP for air conditioning usage.

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Passenger Cars X Light-Duty Trucks X Medium-Duty Vehicles X Gas Diesel Manufacturer Ford Motor Company Page Engine Engine Family FFM4.9TlHGG6 Code 4-52\$-R00B CID (Liter)-ECS (Special Features) AIP/EGR/EGS/TWC 4.9L (300) Type Vehicle Models Trans. Equiv. Ign. System Fuel System EGR Valve Engine Label Ident. (If Coded see Test Code A/T EEC IV lV attachment) Weight Part No. Part No. Part No. Part No E5TE-RA E3TE-RA 4-52\$-R00B F-150 4x2E4EF-ZA CEL AOX-3875 RCS 052 4000 RCL 4250 SCS RCS AOX-3875 053 4000 RCL 4250 SCL Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing. *Add 10% to dyno test HP for air conditioning usage. Date of Issue -

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198 5 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. #A-10-280

E.O. #A-10-280

198 5 AIR	RESOURCES	BOARD	SUPPLEMENTAL	DATA	SHEET

	facturer Fo ne Family FF			any	Page Engine Code	8 e 4-51T-R00)B
ECS	(Special Features)	AIF	/EGR/E	GS/TWC	CID (Liter)- Type _	0)	
Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Wei g ht	Ign. System EEC-IV Part No.	Fuel System 1V Part No.	EGR Valve	Label Ident. Part N
4-51T-R00B	E-150 4x2 RVS RVL SVL RVS	M3 ((3.26)	4500 4250	E4EF-VA	E5TE-TA	E3TE-EA	CEJ,
··	RVL SVL CWL	(3.25)	4250 4500 5000				
	E-250 4x2 RVL SVL	M3 (3.26)	4750 5000				
Please re equipment	See page one for fer to manufacture . If two test wei to dyno test HP fo	r's HP 1 ghts are	ist for listed,	correct dyno 1 the lower we	est HP setting	s based on m	odel and

Issue Date: JUN	28 1934	17-9	_	
Revised:				

198 5 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

- Manu	facturer Ford	Motor	Company	ζ	Page	9			
Engi	ne Family	FFM4.9	T1HGG6		Engine Code 4-52T-R00B				
ECS	(Special Features)	AII	P/EGR/E	GS/TWC	CID (Liter)- Type	4.9L (300)			
Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System EEC IV	Fuel System 1V	EGR Valve	Label Ident.		
-		,		Part No.	Part No.	Part No.	Part N		
4-52T-R00B	E-150 4x2	AOX-	4250	E4EF-XA	E5TE-SA	E3TE-EA	CEL		
	RVS RVL SVL CWL	053	4250 4250 4500 5000						
·· -			 						
	E-250 4x2	 							
-	· RVL SVL	AOX- 053	4750 5000						
						,			
•									
Please ret	See page one for fer to manufacture . If two test wei	r's HP 1	ist for	correct dyno	test HP setting	os based on m	nodel and		
*Add 10% 1	to dyno test HP fo	rair co	nditioni	ng usage.					

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Section 8.13.01.00 1985 LIGHT-DUTY TRUCK DFA TABLE

E.O. # A-10-280

	ETW		No	n A/C	A	./c
Truckline	Limit		DPA	CDT	DPA	CDT
Ranger 4x2	3125		11.4	13.46	12.5	12.48
Ranger 4x2	3250		11.7	13.67	12.9	12.88
Ranger 4x2	3625		15.2	11.47	16.6	10.68
Chassis Cab	028 sq. ft.		17.2	2.0-7	20.0	10.00
Ranger 4x2	3875		18.1	10.98	19.5	10.33
Chassis Cab	039 sq. ft.					
Ranger 4x4	3375		11.8	12.98	13.0	12.12
Ranger 4x4	3625		12.2	13.49	13.4	12.52
Bronco II	3625		11.0	14.24	12.1	13.26
Bronco II	3750		11.5	14.24	12.6	13.35
F-150 4x2 1/	4000		13.2	13.24	14.5	12.41
F-150 4x?	4500		14.0		15.4	13.20
F-150 4x2	4750		15.2	15.42	16.6	14.35
F-250 4x2	5000	R	16.2	14.18	17.6	13.30
		В	18.0	12.77	19.4	12.04
F-150 4x4	500 0	R	16.5	14.19	17.9	13.30
		B	18.6	12.23		11.59
F-250 4x4	5250	R	17.7	14.03	19.1	13.18
	5500	В	20.0	12.53	21.4	11.90
Bronco	500 0	R	14.0	15.42	15.4	14.36
3 .	5250	В	17.2	12.51	18.6	11.88
E-150	5250	R	15.2	15.38	16.6	14.35
"E-250	5500	R	17.3	14.16	18.7	13.31
	6000	В	18.0	13.71	19.4	13.05

NOTES

B=Bias R=Radial tires (All values for radial tires except where noted)

1/ F-150 (4000 ETW, Radial Tires and 1" x 50" spoiler)

I	Issue Date: 111N 2 8 1984	7 17-11	
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E.O. # A-10-280

	ETW		No	n A/C		./c
Truckline	Limit		DPA	CDI	DPA	CDI
Ranger 4x2	3125		11.4	13.46	12.5	12.48
Ranger 4x2	3250		11.7	13.87	12.9	12.88
D / 7	2/25		15.9			10.70
Ranger 4x2 Chassis Cab	3625 628 sq. ft.		15.2	11.47	16.6	10.68
Ranger 4x2	3875		18.1	10.98	19.5	10.33
Chassis Cat	•		10.1	10.70	19.3	10.33
Chassis Cal	CDS BQ. IL.					
Ranger 4x4	3375		11.8	12.98	13.0	12.12
Ranger 4x4	3625		12.2	13.49	13.4	12.52
Bronco II	3625		11.0	14.24	12.1	13.26
Bronco II	3750	:	11.5	14.24	12.6	13.35
F-150 4x2	1/ 4000		13.2		14.5	12.41
F-150 4x2	4500		14.0		15.4	13.20
F-150 4x2	4750		15.2	15.42	16.6	14.35
7 250 4-2	1000	_	16.0"	1/ 10	17 (12.20
F-250 4x2	5000	R B	16.2		17.6	13.30
		ъ	18.0	12.77	19.4	12.04
F-150 4x4	5000	R	16.5	14.19	17.9	13.30
1 250 424		В	18.6	12.23	20.0	11.59
	:	_			2010	,
F-250 4x4	5250	R	17.7	14.03	19.1	13.18
	5500	В	20.0		21.4	11.90
Bronco	5000	R	14.0	15.42	15.4	14.36
	5250	B	17.2	12.51	18.6	11.88
E-150	5250	R	15.2	15.38	16.6	14.35
"= 050	2011	_		11.16		
"E-250	5500	R	17.3		18.7	13.31
	6000	B	18.0	13.71	19.4	13.05

NOTES

B=Bias R=Radial tires (All values for radial tires except where noted)

1/ F-150 (4000 ETW, Radial Tires and 1" x 50" spoiler)

Issue Date:	NIN 2.8 1984	17-11	
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