

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-114
Relating to Certification of New Motor Vehicles

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Sections 43100, 43102, 43103, and 43835; 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 exhaust emission control systems for 1978 model-year medium duty vehicles are certified for the vehicles described below:

Engine Family: 300 "C" (1x100)
Engine: 300 CID
Transmission: 3 Speed Automatic, ~~3 Speed Manual, 4 Speed Manual~~ *mef*
Exhaust Emission Control Systems: Pulse Air Injection, Exhaust Gas Recirculation, Oxidation Catalyst

Models and Engine Codes as listed in attachment.

The following are the recommended values to be listed on the window decal required by California Assembly-Line Test Procedures for 1978 model-year vehicles:

<u>Engine Family</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
300 "C" (1x100)	0.6	10	1.1

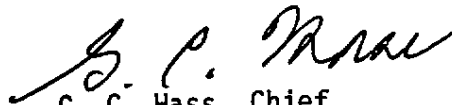
BE IT FURTHER RESOLVED: That the above models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (13 California Administrative Code, Section 2290) for the aforementioned model year, or have been granted a temporary exemption from the aforementioned "Specifications" by Executive Order AA-10 series.

BE IT FURTHER RESOLVED: That the above models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-powered Motor Vehicles except Motorcycles".

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Department of Motor Vehicles, the California Highway Patrol, and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California, this 9 day of August, 1977.



G. C. Hass, Chief
Vehicle Emissions Control Division

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Motor Company Executive Order No. A-10-114 Page 1

Engine Family 300 "C" (1x100) Engine (CID) 300

ABBREVIATIONS

Distributor

C-Centrifugal Advance

V-Vacuum Advance

VR-Vacuum Retard

HEI-High Energy Ignition

EI-Electronic Ignition

Fuel System

EFI, FI

nV-nVenturi Carburetor

VV-Variable Venturi

Exhaust Emissions Control System

AI-Air Injection

CAI-Catalyst Air Injection

CAB-Chamber Air Bleed

DD-Dual Displacement

EFI-Electronic Fuel Injection

EGR-Exhaust Gas Recirculation

EM-Engine Modification

EFE-Early Fuel Evaporation

ESAC-Electronic Spark Advance Control

FI-Fuel Injection

OC-Oxidation Catalyst

PAI-Pulse Air Injection

RC-Reduction Catalyst

TC-Turbo Charged

TR-Thermal Reactor

TWC-Three Way Catalyst

(Feedback Control)

EGR Syst. Service

I-Inspect, repair/replace as needed

R-Replace

Model	Body Type	Wheelbase	Box Design	Trim Levels
F-150	Regular Van	LWB	A or B	1,2,3,4
	Regular Cab			
	Chassis Cab	LWB	-	1,2,3,4
	Super Cab	SWB or LWB	A	1,2,3,4
	Super Cab			
	Chassis Cab	SWB or LWB	-	1,2,3,4
F-250	Regular Cab	LWB	A or B	1,2,3,4,5
	Regular CAB			
	Chassis Cab	LWB	-	1,2,3,4,5
	Super Cab	SWB or LWB	A	1,2,3,4,5
	Super Cab			
	Chassis Cab	SWB or LWB	-	1,2,3,4,5
	Crew Cab	LWB	A	1,3
	Crew Cab			
	Chassis Cab	LWB	-	1,3
	Wheelbase		Box Design	Trim Level
	SWB Short Wheelbase		A. Styleside	1. Custom
	LWB Long Wheelbase		B. Flareside	2. Ranger
				3. Ranger XLT
				4. Ranger Lariat
				5. Camper Special

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Motor Company Executive Order No. A-10-114 Page 1a

Engine Family 300 "C" Engine (CID) 300

<u>Model</u>	<u>Body Type</u>	<u>Wheelbase</u>	<u>Box Design</u>	<u>Trim Levels</u>
E-150	Regular Van	SWB or LWB	A, B, or C	1,2,3
	Club Wagon	SWB or LWB	-	1,2,3
	Super Van	LWB	A, B, or C	1,2,3
	Super Wagon	LWB	-	1,2,3
E-250	Regular Van	LWB	A, B, or C	1,2,3
	Club Wagon	LWB	-	1,2,3
	Super Van	LWB	A, B, or C	1,2,3
	Super Wagon	LWB	-	1,2,3

<u>Wheelbase</u>	<u>Box Design</u>	<u>Trim Level</u>
SWB Short Wheelbase	A. Cargo Van	1. Standard
LWB Long Wheelbase	B. Display Van	2. Custom
	C. Window Van	3. Chateau

Date of Issue

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

☐ Passenger Cars ☐ Light-Duty Trucks ☒ Medium Duty Vehicles

Manufacturer Ford Motor Company Executive Order No. A-10-114 Page 2

Engine Family 300 "C" (1 X 100) Engine (CID) 300 Engine Code 8-52U-R0

Emission Control System PAI/EGR/OC +10%(A/C) Yes ☐ No ☒

Eng. Code	Vehicle Models (If Coded see attachment)	Trans	Inertia Weight Class RLHP	Distributor Type C,V Mfgr. Part Number	Fuel System Type 1 v Mfgr. Part Number	EGR System Part No. Service	Tune-Up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
	E-150 Regular Van SWB	A/3	4000 19.5	Ford D8TE-12127-AAA	Ford D8TE-9510-CNA	D8TE-9D448-SA No Service Required	1) $8^{\circ} \pm 2^{\circ}$ BTDC @ 550 RPM in drive with hoses disconnected and plugged at the distributor. 2) Preset at factory. Do not adjust. See 1978 Ford Service Manual. 3) 550 RPM in drive with all hoses connected.
	Regular Van LWB Super Van LWB Club Wagon SWB, LWB		4500 19.5				
	E-250 Regular Van LWB						
	E-150 Super Wagon LWB		5000 19.5				
	E-250 Super Van LWB Club Wagon LWB Super Wagon LWB						
	F-150 Regular Cab LWB		4000 19.5				

Comments: All models have special road load HP settings.
See page 1 for abbreviations and model codes.

Date of Issue 080977 Revisions:

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

☐ Passenger Cars ☐ Light-Duty Trucks ☒ Medium Duty Vehicles

Manufacturer Ford Motor Company Executive Order No. A-10-114 Page 2a

Engine Family 300 "C" (1 X 100) Engine (CID) 300 Engine Code 8-52U-R0

Emission Control System PAI/EGR/OC +10%(A/C) Yes ☐ No ☒

Eng. Code	Vehicle Models (If Coded see attachment)	Trans	Inertia Weight Class	Distributor Type C,V Mfgr. Part Number	Fuel System Type 1 V Mfgr. Part Number	EGR System Part No. Service	Tune-Up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
	F-150 Super Cab LWB,SWB	A/3	4500 19.5	Ford D8TE-12127-AAA	Ford D8TE-9510-CNA	D8TE-9D448-SA No Service Required	1) 8° ± 2° BTDC @ 550 RPM in drive with hoses disconnected and plugged at the distributor. 2) Preset at factory. Do not adjust. See 1978 Ford Service Manual. 3) 550 RPM in drive with all hoses connected.
	F-250 Regular Cab LWB Super Cab SWB,LWB						
	F-150 CC Regular Cab LWB CC Super Cab SWB,LWB		5000 26.5				
	F-250 Crew Cab LWB						
	CC Regular Cab LWB CC Super Cab SWB CC Crew Cab LWB		6000 26.5				
	CC Super Cab LWB		6500 26.5				

Comments: All models have special road load HP settings.
See page 1 for abbreviations and model codes.

Date of Issue 080977 Revisions:

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

☐ Passenger Cars ☐ Light-Duty Trucks ☒ Medium Duty Vehicles

Manufacturer Ford Motor Company Executive Order No. A-10-114 Page 3
 Engine Family 300 "C" (1 X 100) Engine (CID) 300 Engine Code 8-52U-R10

Emission Control System PAI/EGR/OC +10%(A/C) Yes ☐ No ☒

Eng. Code	Vehicle Models (If Coded see attachment)	Trans	Inertia Weight Class RLHP	Distributor Type C,V Mfgr. Part Number	Fuel System Type 1 V Mfgr. Part Number	EGR System Part No. Service	Tune-Up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
	E-150 Regular Van SWB	A/3	4000 19.5	Ford D8TE- 12127-AAA	Ford D8TE- 9510-CNA	D8UE- 9D448-HA No Service Required	1) $8^{\circ} \pm 2^{\circ}$ BTDC @ 550 RPM in drive with hoses disconnected and plugged at the distributor. 2) Preset at factory. Do not adjust. See 1978 Ford Service Manual. 3) 550 RPM in drive with all hoses connected.
	Regular Van LWB Super Van LWB Club Wagon SWB,LWB		4500 19.5				
	E-250 Regular Van LWB						
	E-150 Super Wagon LWB		5000 19.5				
	E-250 Super Van LWB Club Wagon LWB Super Wagon LWB						
	F-150 Regular Cab LWB		4000 19.5				

Comments: All models have special road load HP settings.
 See page 1 for abbreviations and model codes.

Date of Issue 11/4/77 Revisions:
R/C-5T

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

☐ Passenger Cars ☐ Light-Duty Trucks ☒ Medium Duty Vehicles

Manufacturer Ford Motor Company Executive Order No. A-10-114

Page 3a

Engine Family 300 "C" (1 X 100) Engine (CID) 300

Engine Code 8-52U-R10

Emission Control System PAI/EGR/OC +10%(A/C) Yes ☐ No ☒

Eng. Code	Vehicle Models (If Coded see attachment)	Trans	Inertia Weight Class RLHP	Distributor Type C,V Mfgr. Part Number	Fuel System Type 1 V Mfgr. Part Number	EGR System Part No. Service	Tune-Up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
	F-150 Super Cab LWB, SWB	A/3	<u>4500</u> <u>19.5</u>	Ford D8TE-12127-AAA	Ford D8TE-9510-CNA	D8UE-9D448-HA No Service Required	1) $8^{\circ} \pm 2^{\circ}$ BTDC @ 550 RPM in drive with hoses disconnected and plugged at the distributor. 2) Preset at factory. Do not adjust. See 1978 Ford Service Manual. 3) 550 RPM in drive with all hoses connected.
	F-250 Regular Cab LWB Super Cab SWB, LWB						
	F-150 CC Regular Cab LWB CC Super Cab SWB, LWB		<u>5000</u> <u>26.5</u>				
	F-250 Crew Cab LWB						
	CC Regular Cab LWB CC Super Cab SWB CC Crew Cab LWB		<u>6000</u> <u>26.5</u>				
	CC Super Cab LWB		<u>6500</u> <u>26.5</u>				

Comments: All models have special road load HP settings.
See page 1 for abbreviations and model codes.

Date of Issue 11/4/77 Revisions:
R/C-5T

STAFF USE ONLY

1978 MODEL-YEAR CERTIFICATION APPLICATION CHECK OFF SHEET

☐ PASSENGER CARS☐ LIGHT-DUTY TRUCKS☒ MEDIUM-DUTY VEHICLES

Manufacturer _____

Marketing Agreement with another manufacturer: _____

- | | |
|---|--|
| 1. Part I Submittal
a. Date Received <u>OCT 1, 1977</u>
b. Date ARB Response <u>mf</u>
2. Authorized Signature <u>mf</u>
3. Vehicle Description <u>mf</u>
4. Exh. Emis. Control Sys. Descr. <u>mf</u>
5. Engine Parameters <u>mf</u>
6. Ignition & Fuel System Descr. <u>mf</u>
7. Test Route, Equipment, and Fuel Description <u>mf</u>
8. Projected Calif. Sales Data <u>mf</u>
9. Test Fleet Composition:
Date ARB Approved <u>MAR 22, 1977</u>
a. Durability Fleet <u>APR 29, 1977</u>
b. Emission Data Fleet
10. Carry-over Vehicles? <u>Yes Dur. NO Emis.</u>
11. Fill pipe Specification Submission <u>mf</u> | 1. Part II Submittal
a. Data Received <u>JULY 26, 1977</u>
2. Exh. Durability Test Data <u>mf</u>
a. Durability Fleet Maint. <u>mf</u>
3. Exh. Emission Test Data <u>mf</u>
a. Emis. Data Fleet Maint. <u>mf</u>
4. Confirm. Test Lab. <u>CARB</u>
5. Add't'l. 91 RON Statement <u>mf</u>
6. Maint., Warr., & Train Descr. <u>mf</u>
7. Statement on General Stds.:
Safety, Increase in Emiss. <u>mf</u>
8. Statement on Mtg. All Reg. <u>mf</u>
9. Statement that Test & Prod. Vehicles are Identical <u>mf</u>
10. Ignition & Fuel System Part No. & Calibration <u>mf</u>
11. Aux. Exh. Emis. Cont. Devices Part No. & Calibration <u>mf</u>
12. Tune-up Label <u>mf</u>
13. Evap. System(s) Evaluated <u>mf</u>
14. EPA Certificate <u>NO</u> |
|---|--|

Engine Family 300 "C" (1X100)Exhaust Emission Control System** PAI/FCR/CC
Projected Exhaust Emissions at 50,000 Miles (grams/miles)***

Engine Size (CID)	Trans.	Inertia Weight Class	Calibration	Vehicle I.D. Number	HC 0.41(0.9)*	CO 9.0(17)*	NOx 1.5(2.0)*
300	A/B	4000	8-520-RO	8F1-300-0-079	0.64	10	1.1

*** Includes a MCCF value of 1.00 and D.F. values of 0.959 0.827 0.831.
 * Numbers in Parenthesis refer to light-duty trucks and medium-duty vehicles except NOx is 2.3 for medium-duty vehicles.

Executive Order No. A- 10-114
 Application Processed by M. Fleming Aug 5, 77 Date 8/8/77
 Reviewed by Robert P. Weiss Date

**Abbreviations

Exhaust Emission Control System

AI - Air Injection
 CAI - Catalyst Air Injection
 CAB - Chamber Air Bleed
 DD - Dual Displacement
 EFE - Early Fuel Evaporation
 EFI - Electronic Fuel Injection
 EGR - Exhaust Gas Recirculation
 EM - Engine Modifications

ESAC - Electronic Spark Advance Control
 FI - Fuel Injection
 OC - Oxidation Catalyst
 PAI - Pulse Air Injection
 RC - Reduction Catalyst
 TC - Turbocharged
 TR - Thermal Reactor
 TWC - Three Way Catalyst (Feedback Control)