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:

Engine Family	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
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
SWB Short Wheelbase
LWB Long Wheelbase

Box Design
A. Styleside
B. Flareside

Trim Level
1. Custom
2. Ranger
3. Ranger XLT
4. Ranger Lariat
5. Camper Special

Date of Issue

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

Model	Body Type	Wheelbase	Box Design	Trim Levels
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

Wheelbase	Box Design	Trim Level
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 Code 8-52U-RO

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

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° ± 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.
	Regular Van LWB Super Van LWB Club Wagon SWB,LWB E-250 Regular Van LWB		4500 / 19.5				
	E-150 Super Wagon LWB E-250 Super Van LWB Club Wagon LWB Super Wagon LWB		5000 / 19.5				
	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-RO

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 F-250 Regular Cab LWB Super Cab SWB,LWB	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-150 CC Regular Cab LWB CC Super Cab SWB,LWB F-250 Crew Cab LWB		5000 / 26.5				
	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° ± 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.
	Regular Van LWB Super Van LWB Club Wagon SWB,LWB E-250 Regular Van LWB		4500/19.5				
	E-150 Super Wagon LWB E-250 Super Van LWB Club Wagon LWB Super Wagon LWB		5000/19.5				
	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 F-250 Regular Cab LWB Super Cab SWB,LWB	A/3	4500 / 19.5	Ford D8TE-12127-AAA	Ford D8TE-9510-CNA	D8UE-9D448-HA 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-150 CC Regular Cab LWB CC Super Cab SWB,LWB F-250 Crew Cab LWB		5000 / 26.5				
	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 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		1. Part II Submittal	
a. Date Received	Oct 1, 1977	a. Data Received	July 26, 1977
b. Date ARB Response		2. Exh. Durability Test Data	mf
2. Authorized Signature	mf	a. Durability Fleet Maint.	mf
3. Vehicle Description	mf	3. Exh. Emission Test Data	mf
4. Exh. Emis. Control Sys. Descr.	mf	a. Emis. Data Fleet Maint.	mf
5. Engine Parameters	mf	4. Confirm. Test Lab. CARB	mf
6. Ignition & Fuel System Descr.	mf	5. Add't'l. 91 RON Statement	mf
7. Test Route, Equipment, and Fuel Description	mf	6. Maint., Warr., & Train Descr.	mf
8. Projected Calif. Sales Data	mf	7. Statement on General Stds.: Safety, Increase in Emiss.	mf
9. Test Fleet Composition:		8. Statement on Mtg. All Reg.	mf
Date ARB Approved		9. Statement that Test & Prod. Vehicles are Identical	mf
a. Durability Fleet	MAR 22, 1977	10. Ignition & Fuel System Part No. & Calibration	mf
b. Emission Data Fleet	MAR 22, 1977	11. Aux. Exh. Emis. Cont. Devices Part No. & Calibration	mf
10. Carry-over Vehicles? YES Dur. NO Emis.	mf	12. Tune-up Label	mf
11. Fill pipe Specification Submission	mf	13. Evap. System(s) Evaluated	mf
		14. EPA Certificate	NO

Engine Family 300 "C" (1X100) Exhaust Emission Control System** PAI/EGR/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/3	4000	8-520-RO	EFI-300-U-079	0.64	10	1.1

*** Includes a MCCF value of ~~1.00~~ 0.91 mf 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) Reviewed by Robert P. Weiss 8/8/77 (Date)

**Abbreviations

Exhaust Emission Control System

AI - Air Injection
- 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)