

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-120
Relating to Certification of New Motor Vehicle Engines

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That Ford Motor Company 1978 model-year gasoline-powered engines in heavy-duty motor vehicles with manufacturers gross vehicle weight rating greater than 8500 pounds are certified for the engine family, codes and models described below:

<u>Family</u>	<u>Engine Size (CID)</u>	<u>Exhaust Emission Control System</u>
330/361/391	330 361 391	Engine Modification, Exhaust Gas Recirculation, Air Injection

Models and Engine Codes as listed in attachment.

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the manufacturer affix a decal to the side window to the rear of the driver or, if there is no such window on the driver's side, to the windshield of the motor vehicle.

The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following recommended values:

<u>Engine Family</u>	<u>HC + NOx gm/bhp-hr</u>	<u>CO gm/bhp-hr</u>	<u>HC gm/bhp-hr</u>	<u>NOx gm/bhp-hr</u>
330/361/391	Not Applicable	23	1.0	6.5

Engines 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 8 day of August, 1977.

G. C. Hass

G. C. Hass, Chief
Vehicle Emissions Control Division

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Motor Co. Executive Order No. A-10-120 Page 1

Engine Family 330/361/391 Engine (CID) 330/361/391

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. ServiceI-Inspect, repair/replace
as needed

R-Replace

Engine Model

330 XD

361 XD

389 XD

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY GASOLINE ENGINES

Manufacturer Ford Motor Company Executive Order No. A-10-120 Page 1Engine Family 330/361/391 Engine (CID) 330 Calibration 7-81K-R0Emission Control System EGR/AIR

Engine Models	Distributor Type: V,C Mfgr. Part No.	Fuel System Type: I-2V Mfgr. Part No.	EGR System Part No. Service**	Tune-Up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
330 X.D.	Ford D7TE- 12127-ZA	Ford D8TE- 9510-AA	D4UE- 9D475-AA	(1) 4° BTDC @ 650 RPM in neutral; vacuum lines to distributor disconnected and plugged. (2) Preset at factory; do not adjust; see 1978 Ford Service Manual. (3) 650 RPM in neutral.

Comments

** - Inspect and clean EGR valve every 16,000 miles.

Date of Issue

Abbreviation

Distributor

C-Centrifugal Advance

V-Vacuum Advance

VR-Vacuum Retard

EI-Electronic Ignition

Exhaust Emission Control System

AI-Air Injection

EGR-Exhaust Gas Recirculation

EM-Engine Modification

OC-Oxidation Catalyst

*ServiceI-Inspect, repair, replace
as needed

R-Replace

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY GASOLINE ENGINES

Manufacturer Ford Motor Company Executive Order No. A-10-120 Page 2Engine Family 330/361/391 Engine (CID) 361 Calibration 5-85J-R-6Emission Control System EGR/AIR

Engine Models	Distributor Type: V,C Mfgr. Part No.	Fuel System Type: 1-4V Mfgr. Part No.	EGR System Part No. Service**	Tune-Up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
361 XD	Holley D5TE- 12102-CA D8TE- 12127-HA	Holley D8TE- 9510-BZA D8TE- 9510-AGA D8TE- (1) 9510-AGB	D40E- 9D475-AA	(1) 6° BTDC @ 650 RPM in neutral; vacuum lines disconnected and plugged. (2) Preset at factory; do not adjust; see 1978 Ford Service Manual. (3) 650 RPM in neutral (Air Conditioner off)

Comments

** - Inspect and clean EGR valve every 16,000 miles.

Date of Issue

Revision:(1) R/C-HD3 04178

Abbreviation

Distributor

C-Centrifugal Advance

V-Vacuum Advance

VR-Vacuum Retard

EI-Electronic Ignition

Exhaust Emission Control System

AI-Air Injection

EGR-Exhaust Gas Recirculation

EM-Engine Modification

OC-Oxidation Catalyst

*Service

I-Inspect, repair, replace
as needed

R-Replace

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY GASOLINE ENGINES

Manufacturer Ford Motor Company Executive Order No. A-10-120 Page 3Engine Family 330/361/391 Engine (CID) 361 Calibration 5-86J-R3Emission Control System EGR/AIR

Engine Models	Distributor Type: C,V Mfgr. Part No.	Fuel System Type: I-4V Mfgr. Part No.	EGR System Part No. Service* *	Tune-Up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
361 XD	Holley D5TE- 12102-DA D8TE 12127-HA	Holley D8TE 9510-BZA D8TE- 9510-AGA D8TE-(1) 9510-AGB	D40E- 9D475-AA	(1) 6° BTDC @ 650 RPM in neutral, vacuum lines to distributor disconnected and plugged. (2) Preset at factory; do not adjust; see 1978 Ford Service Manual. (3) 650° RPM in drive.

Comments

** - Inspect and clean EGR valve every 16,000 miles.

Date of Issue

Revision:(1) R/C HD-3 040178

Abbreviation

Distributor

C-Centrifugal Advance

V-Vacuum Advance

VR-Vacuum Retard

EI-Electronic Ignition

Exhaust Emission Control System

AI-Air Injection

EGR-Exhaust Gas Recirculation

EM-Engine Modification

OC-Oxidation Catalyst

*ServiceI-Inspect, repair, replace
as needed

R-Replace

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY GASOLINE ENGINES

Manufacturer Ford Motor Company Executive Order No. A-10-120 Page 4Engine Family 330/361/391 Engine (CID) 391 Calibration 5-89J-R-3Emission Control System EGR/AIR

Engine Models	Distributor Type: V,C Mfgr. Part No.	Fuel System Type: T-4V Mfgr. Part No.	EGR System Part No. Service**	Tune-Up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
389 XD	Holley D4TE- 12102-BA D8TE- 12127-GA	Holley D8TE- 9510-CBA D8TE- 9510-BSA D8TE- (1) 9510-BSB	D4DE- 9D475-EA	(1) 4° BTDC @ 650 RPM in neutral; vacuum lines to distributor disconnected and plugged. (2) Preset at factory; do not adjust; see 1978 Ford Service Manual. (3) 650 RPM in neutral. (Air Conditioner off)

Comments

** - Inspect and clean EGR valve every 16,000 miles.

Date of Issue

Revision: (1) R/C HD-3 040178

Abbreviation

Distributor

C-Centrifugal Advance

V-Vacuum Advance

VR-Vacuum Retard

EI-Electronic Ignition

Exhaust Emission Control System

AI-Air Injection

EGR-Exhaust Gas Recirculation

EM-Engine Modification

OC-Oxidation Catalyst

*ServiceI-Inspect, repair, replace
as needed

R-Replace

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY GASOLINE ENGINES

Manufacturer Ford Motor Company Executive Order No. A-10-120 Page 5Engine Family 330/361/391 Engine (CID) 391 Calibration 5-90J-R-3Emission Control System EGR/AIR

Engine Models	Distributor Type: V,C Mfgr. Part No.	Fuel System Type: 1-4V Mfgr. Part No.	EGR System Part No. Service**	Tune-Up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
389 XD	Holley D4TE- 12102-CA D8TE- 12127-GA	Holley D8TE- 9510-CBA D8TE- 9510-BSA D8TE- (1) 9510-BSB	D4DE- 9D475-EA	(1) 4° BTDC @ 650 RPM in neutral; vacuum lines to distributor disconnected and plugged. (2) Preset at factory; do not adjust; see 1978 Ford Service Manual. (3) 650 RPM in drive.

Comments

** - Inspect and clean EGR valve every 16,000 miles.

Date of Issue

Revision: (1) R/C HD-3 040178

Abbreviation

Distributor

C-Centrifugal Advance

V-Vacuum Advance

VR-Vacuum Retard

EI-Electronic Ignition

Exhaust Emission Control System

AI-Air Injection

EGR-Exhaust Gas Recirculation

EM-Engine Modification

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*ServiceI-Inspect, repair, replace
as needed

R-Replace