

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-133
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 the following Ford Motor Company 1979 model-year gasoline engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

<u>Engine Family</u>	<u>Displacement Cubic Inches</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
4.9L "Q"	300	Exhaust Gas Recirculation Air Injection

Engine Models and Codes as listed on attachments.

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the engine manufacturer furnish a decal with each engine sold or delivered to a vehicle manufacturer. The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following certification emission values:

<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>	<u>Hydrocarbons + Nitrogen Oxides gm/bhp-hr</u>
4.9L "Q" (300)	0.7	14	5.8	Not Applicable

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 7 day of July, 1978.


G. C. Hass, Chief
Vehicle Emissions Control Division

1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Motor Company Executive Order No. A-10-133 Page 1
 Engine Family 4.9L "Q" (300) Engine (CID) 300

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
 EI-Electronic Ignition
 ESAC
 VA-Vacuum Advance
 VR-Vacuum Retard

Fuel System

EFI, MFI
 nV-nVenturi Carburetor
 VV-Variable Venturi

Exhaust Emissions Control System

AI-Air Injection
 CCAV-Comb. Chamber Air Valve
 EFI-Electronic Fuel Injection
 EGR-Exhaust Gas Recirculation
 EM-Engine Modification

ESAC-Electronic Spark Advance
 Control

MFI-Mechanical Fuel Injection

OC-Oxidation Catalyst
 PAI-Pulse Air Injection
 TC-Turbo Charged
 TR-Thermal Reactor
 TWC-Three Way Catalyst
 (Feedback Control)
 WOC-Warm-up Oxidation
 Catalyst

Model

4.9L

Date of Issue

Revisions

1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY GASOLINE ENGINES

Manufacturer Ford Motor Company Page 2
 Engine Family 4.9L "Q" (300) Engine (CID) 300 Calibration 9-77J-R0
 Emission Control System EGR,AI

Engine Models	Ign. Sys. Type: CA,VA,VR Part No.	Fuel System Type: 1-IV Part No.	EGR Valve Part No.	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
4.9L	Ford D9TE- 12127-AEA	Carter D9TE- 9510-CA	D8BE- 9D475-EA	(1) 12° BTDC @ 700 RPM in neutral; vacuum lines disconnected and plugged. (2) Preset at factory; do not adjust; see 1979 Ford Service Manual. (3) 700 RPM in neutral 500 RPM w/TSP off (Air Conditioner off)

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HEAVY-DUTY GASOLINE ENGINES

Manufacturer Ford Motor Company Page 3
 Engine Family 4.9L "Q" (300) Engine (CID) 300 Calibration 9-77M-R0
 Emission Control System EGR,AI

Engine Models	Ign. Sys. Type: CA,VA,VR Part No.	Fuel System Type: 1-1V Part No.	EGR Valve Part No.	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
4.9L	Ford D9TE- 12127-AEA	Carter D9TE- 9510-AA D9TE 9510-BA	D8BE- 9D475-EA	(1) 12° BTDC @ 700 RPM in neutral; vacuum lines disconnected (2) Preset at factory; do not adjust; See 1979 Ford Service Manual. (3) 700 RPM in neutral. 500 RPM w/TSP off.

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HEAVY-DUTY GASOLINE ENGINES

Manufacturer Ford Motor Company Page 4
 Engine Family 4.9L"Q" (300) Engine (CID) 300 Calibration 9-78J-R0
 Emission Control System EGR, AI

Engine Models	Ign. Sys. Type: CA,VA,VR Part No.	Fuel System Type: 1-1V Mfgr. Part No.	EGR Valve Part No. Service*	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
4.9L	Ford D9TE- 12127-ADA	Carter D9TE- 9510-VA	D8BE- 9D475-EA	1) 12° BTDC @ 700 RPM in neutral; vacuum lines disconnected and plugged. 2) Preset at factory; do not adjust; see 1979 Ford Service Manual. 3) 550 RPM in drive 500 RPM in neutral w/TSP off (Air Conditioner off)

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HEAVY-DUTY GASOLINE ENGINES

Manufacturer Ford Motor Company Page 5
 Engine Family 4.9L "Q" (300) Engine (CID) 300 Calibration 9-77M-R10
 Emission Control System EGR,AI

Engine Models	Ign. Sys. Type: CA,VA,VR Part No.	Fuel System Type: 1-1V Part No.	EGR Valve Part No.	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
4.9L	Ford D9TE- 12127-AEA	Carter D9TE- 9510-AA D9TE 9510-BA	D8BE- 9D475-EA	(1) 12° BTDC @ 700 RPM in neutral; vacuum lines disconnected (2) Preset at factory; do not adjust; See 1979 Ford Service Manual. (3) 700 RPM in neutral. 500 RPM w/TSP off.

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HEAVY-DUTY GASOLINE ENGINES

Manufacturer Ford Motor Company Page 6
 Engine Family 4.9L "Q" (300) Engine (CID) 300 Calibration 9-77J-R11
 Emission Control System EGR,AI

Engine Models	Ign. Sys. Type: CA,VA,VR	Fuel System Type: 1-IV	EGR Valve Part No.	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
	Part No.	Part No.		
4.9L	Ford D9TE- 12127-AEA	Carter D9TE- 9510-CA	D8BE- 9D475-EA	(1) 12° BTDC @ 700 RPM in neutral; vacuum lines disconnected and plugged. (2) Preset at factory; do not adjust; see 1979 Ford Service Manual. (3) 700 RPM in neutral 500 RPM w/TSP off (Air Conditioner off)

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HEAVY-DUTY GASOLINE ENGINES

Manufacturer Ford Motor Company Page 7
 Engine Family 4.9L"Q" (300) Engine (CID) 300 Calibration 9-78J-R-11
 Emission Control System EGR, AI

Engine Models	Ign. Sys. Type: CA,VA,VR Part No.	Fuel System Type: 1-1V Mfgr. Part No.	EGR Valve Part No. Service*	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
4.9L	Ford D9TE-12127-ADA	Carter D9TE-9510-VA	D88E-9D475-EA	1) 12° BTDC @ 700 RPM in neutral; vacuum lines disconnected and plugged. 2) Preset at factory; do not adjust; see 1979 Ford Service Manual. 3) 550 RPM in drive 500 RPM in neutral w/TSP off (Air Conditioner off)

1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY GASOLINE ENGINES

Manufacturer Ford Motor Company Page 8
 Engine Family 4.9L "Q" (300) Engine (CID) 300 Calibration 9-77s-R 10
 Emission Control System EGR,AI

Engine Models	Ign. Sys. Type: CA,VA,VR	Fuel System Type: 1-IV	EGR Valve Part No.	Tune-up Specifications
	Part No.	Part No.		
4.9L	Ford D9TE- 12127-AEA	Carter D9TE- 9510-CA	D8BE- 9D475-FA	(1) 10° BTDC @ 700 RPM in neutral; vacuum lines disconnected and plugged. (2) Preset at factory; do not adjust; see 1979 Ford Service Manual. (3) 700 RPM in neutral 500 RPM w/TSP off (Air Conditioner off)