

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-161
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>
5.8L (M)/6.6L"E" (351M/400)	351 400	Air Injection Exhaust Gas Recirculation

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>
5.8L(M)/6.6L"E" (351M/400)	0.9	24	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 30 day of October, 1978.


G. C. Hass, Chief
Vehicle Emissions Control Division

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Engine Family 5.8L (M)/6.6L "E" Engine (CID) 351/400
(351M/400)

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
CatalystEngine Model

5.8L (M)

6.6L

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HEAVY-DUTY GASOLINE ENGINES

Manufacturer Ford Motor Company Page 2
 Engine Family 5.8LM/6.6L "E"(351M/400) Engine (CID) 351 Calibration 9-71J-R0
 Emission Control System EGR/AI

Engine Models	Ign. Sys. CA,VA,EI Part No.	Fuel System 1-2V Part No.	EGR Valve Part No.	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
5.8 L(M)	Ford D7TE- 12127-AHA	Ford D9TE- 9510-DLA	D8DE- 9D475-CA	(1) 10° BTDC @ 600 RPM in neutral; vacuum lines to distributor disconnected and plugged. (2) Preset at factory; do not adjust; see 1979 Ford Service Manual. (3) 600 RPM in neutral.

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Manufacturer Ford Motor Company Page 3
 Engine Family 5.8L(M)/6.6L"E" (351M/400) Engine (CID) 351 Calibration 9-72J-R0
 Emission Control System EGR/AI

Engine Models	Ign. Sys. CA,VA,EI Part No.	Fuel System 1-2V Part No.	EGR Valve Part No.	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
5.8L(M)	Ford D7TE- 12127-AHA	Ford D9TE- 9510-DPA	D8DE- 9D475-CA	(1) 10° BTDC @ 600 RPM in neutral; vacuum lines to distributor disconnected and plugged. (2) Preset at factory; do not adjust; see 1979 Ford Service Manual. (3) 600 RPM in drive 500 RPM in neutral w/TSP off (Air Conditioner off)

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Manufacturer Ford Motor Company Page 4
 Engine Family 5.8L(M)/6.6L"E" (351M/400) Engine (CID) 400 Calibration 9-73J-R0
 Emission Control System _____

Engine Models	Ign. Sys. CA,VA,EI	Fuel System 1-2V	EGR Valve	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
	Part No.	Part No.	Part No.	
6.6L	Ford D7TE- 12127-AMA	Ford D9TE- 9510-DKA	D8DE- 9D475-CA	(1) 6° BTDC @ 600 RPM in neutral; vacuum lines to distributor disconnected and plugged. (2) Preset at factory; do not adjust; see 1979 Ford Service Manual. (3) 600 RPM in drive

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Engine Family 5.8L(M)/6.6L"E" (351M/400) Engine (CID) 400 Calibration 9-74J-R0

Emission Control System EGR/AI

Engine Models	Ign. Sys. CA,VA,EI Part No.	Fuel System 1-2V Part No.	EGR Valve Part No.	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
6.6L	Ford D7TE- 12127-ALA	Ford D9TE- 9510-DUA	D8DE- 9D475-CA	(1) 30° BTDC @ 600 RPM in neutral; vacuum lines to distributor disconnected and plugged. (2) Preset at factory; do not adjust; see 1979 Ford Service Manual. (3) 600 RPM in drive 500 RPM in neutral w/TSP off (Air Conditioner off)

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 Engine Family 5.8L(M)/6.6L"E" (351M/400) Engine (CID) 351 Calibration 9-72J-R11
 Emission Control System EGR/AI

Engine Models	Ign. Sys. CA,VA,EI Part No.	Fuel System 1-2V Part No.	EGR Valve Part No.	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
5.8L(M)	Ford D7TE- 12127-AHA	Ford D9TE- 9510-DPA	D8DE- 9D475-CA	(1) 10° BTDC @ 600 RPM in neutral; vacuum lines to distributor disconnected and plugged. (2) Preset at factory; do not adjust; see 1979 Ford Service Manual. (3) 600 RPM in drive 500 RPM in neutral w/TSP off (Air Conditioner off)

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Manufacturer Ford Motor Company Page 7
 Engine Family 5.8L(M)/6.6L"E" (351M/400) Engine (CID) 400 Calibration 9-73J-R11
 Emission Control System _____

Engine Models	Ign. Sys. CA,VA,EI Part No.	Fuel System 1-2V Part No.	EGR Valve Part No.	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
6.6L	Ford D7TE- 12127-AMA	Ford D9TE- 9510-DKA	D8DE- 9D475-CA	(1) 6° BTDC @ 600 RPM in neutral; vacuum lines to distributor disconnected and plugged. (2) Preset at factory; do not adjust; see 1979 Ford Service Manual. (3) 600 RPM in drive

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Manufacturer Ford Motor Company Page 8
 Engine Family 5.8L(M)/6.6L"E" (351M/400) Engine (CID) 400 Calibration 9-74J-R11
 Emission Control System EGR/AI

Engine Models	Ign. Sys. CA,VA,EI Part No.	Fuel System 1-2V Part No.	EGR Valve Part No.	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
6.6L	Ford D7TE- 12127-ALA	Ford D9TE- 9510-DUA	D8DE- 9D475-CA	(1) 3° BTDC @ 600 RPM in neutral; vacuum lines to distributor disconnected and plugged. (2) Preset at factory; do not adjust; see 1979 Ford Service Manual. (3) 600 RPM in drive 500 RPM in neutral w/TSP off (Air Conditioner off)

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Manufacturer Ford Motor Company Page 9
 Engine Family 5.8L(M)/6.6L"E" (351M/400) Engine (CID) 400 Calibration 9-73J-R10
 Emission Control System _____

Engine Models	Ign. Sys. CA,VA,EI Part No.	Fuel System 1-2V Part No.	EGR Valve Part No.	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
6.6L	Ford D9TE- 12127-ATA	Ford D9TE- 9510- EGA	D8DE- 9D475-CA	(1) 6° BTDC @ 600 RPM in neutral; vacuum lines to distributor disconnected and plugged. (2) Preset at factory; do not adjust; see 1979 Ford Service Manual. (3) 600 RPM in neutral.

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Manufacturer Ford Motor Company Page 10
 Engine Family 5.8L(M)/6.6L"E" (351M/400) Engine (CID) 400 Calibration 9-74J-R10
 Emission Control System EGR/AI

Engine Models	Ign. Sys. CA,VA,EI	Fuel System 1-2V	EGR Valve Part No.	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
	Part No.	Part No.		
6.6L	Ford D9TE- 12127-ATA	Ford D9TE- 9510-EEA	D8DE- 9D475-CA	(1) 6° BTDC @ 600 RPM in neutral; vacuum lines to distributor disconnected and plugged. (2) Preset at factory; do not adjust; see 1979 Ford Service Manual. (3) 600 RPM in drive 500 RPM in neutral w/TSP off (Air Conditioner off)

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Manufacturer Ford Motor Company Page 11
 Engine Family 5.8L(M)/6.6L"E" (351M/400) Engine (CID) 400 Calibration 9-73J-R12
 Emission Control System _____

Engine Models	Ign. Sys. CA,VA,EI Part No.	Fuel System 1-2V Part No.	EGR Valve Part No.	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
6.6L	Ford D9TE- 12127-ATA	Ford D9TE- 9510- EGA	D8DE- 9D475-CA	(1) 6° BTDC @ 600 RPM in neutral; vacuum lines to distributor disconnected and plugged. (2) Preset at factory; do not adjust; see 1979 Ford Service Manual. (3) 600 RPM in neutral.

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Manufacturer Ford Motor Company Page 12
 Engine Family 5.8L(M)/6.6L"E" (351M/400) Engine (CID) 400 Calibration 9-74J-R12
 Emission Control System EGR/AI

Engine Models	Ign. Sys. CA,VA,EI Part No.	Fuel System 1-2V Part No.	EGR Valve Part No.	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
6.6L	Ford D9TE- 12127-ATA	Ford D9TE- 9510-EEA	D8DE- 9D475-CA	(1) 6° BTDC @ 600 RPM in neutral; vacuum lines to distributor disconnected and plugged. (2) Preset at factory; do not adjust; see 1979 Ford Service Manual. (3) 600 RPM in drive 500 RPM in neutral w/TSP off (Air Conditioner off)

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Manufacturer Ford Motor Company Page 13
 Engine Family 5.8LM/6.6L "E"(351M/400) Engine (CID) 351 Calibration 9-71J-R10
 Emission Control System EGR/AI

Engine Models	Ign. Sys. CA,VA,EI Part No.	Fuel System 1-2V Part No.	EGR Valve Part No.	Tune-up Specifications (1) Basic Timing (2) Idle Mixture (3) Idle Speed
5.8 L(M)	Ford D7TE- 12127-AHA	Ford D9TE- 9510-EVA	D8DE- 9D475-CA	(1) 10° BTDC @ 600 RPM in neutral; vacuum lines to distributor disconnected and plugged. (2) Preset at factory; do not adjust; see 1979 Ford Service Manual. (3) 600 RPM in neutral.