

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-108  
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 passenger cars are certified for the vehicles described below:

- Engine Family: 351M/400 "B" (2X160)
- Engine: 351 CID / 400
- Transmission: 3-speed Automatic
- Exhaust Emission Control Systems: 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>
351M/400 "B" (2X160)	0.29	8.7	1.0

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 18 day of August, 1977.



G. C. Hass, Chief  
Vehicle Emissions Control Division

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Manufacturer FORD MOTOR COMPANY Executive Order No. A-10-108 Page 1

Engine Family 351M/400 "B" (2X160) Engine (CID) 351/400

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

<u>Model</u>	<u>Body Type</u>	<u>Body Code</u>	<u>Model Name</u>
FORD	4-door Sedan	53D	FORD LTD S
		53H	FORD LTD
		53L	FORD LTD Landau
	2-door Sedan	60H	FORD LTD
		60L	FORD LTD Landau
	Station Wagon	71H 71D	FORD LTD/FORD LTD Country Squire FORD LTD
MERCURY	4-door Sedan	53H	MERCURY Marquis
		53K	MERCURY Marquis Brougham
		53L	MERCURY Grand Marquis
	2-door Sedan	65H	MERCURY Marquis
		65K	MERCURY Marquis Brougham
		65L	MERCURY Grand Marquis
Station Wagon	71K	MERCURY Marquis/MERCURY Marquis Colony Park	
LTD II	4-door Sedan	53B	LTD II S
		53D	LTD II/LTD II Brougham
	2-door Sedan	65B	LTD II S
		65D	LTD II/LTD II Brougham

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Engine Family 351M/400 "B" (2X160) Engine (CID) 351/400

<u>Model</u>	<u>Body Type</u>	<u>Body Code</u>	<u>Model Name</u>
COUGAR	4-door Sedan	53D -	MERCURY COUGAR/MERCURY COUGAR Brougham
	2-door Sedan	65L -	MERCURY COUGAR XR-7
		65D -	MERCURY COUGAR/MERCURY COUGAR Brougham
RANCHERO	Ranchero	97D	RANCHERO
		97K	RANCHERO Squire
		97R	RANCHERO GT
THUNDERBIRD	2-door Sedan	60H	THUNDERBIRD/ THUNDERBIRD Town Landau/ THUNDERBIRD Diamond Jubilee
LINCOLN	4-door Sedan	53B	LINCOLN Continental
MARK V	2-door Sedan	60B	LINCOLN Continental
	2-door Sedan	65D	Continental Mark V/ Cartier/Emilio Pucci/ Givenchy/Bill Blass/ Diamond Jubilee

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Passenger Cars     Light-Duty Trucks     Medium Duty Vehicles

Manufacturer Ford Motor Company    Executive Order No. A-10-108    Page 2

Engine Family 351 M/400 "B" (2 X 160)    Engine (CID) 351    Engine Code 8-14N-R13

Emission Control System EGR, AI, 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 1-2V Mfgr. Part Number	EGR System Part No. Service **	Tune-Up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
	<u>LTD II</u> 65B 65D 53B 53D  <u>COUGAR</u> 65D 53D 65L  <u>RANCHERO</u> 97D 97K 97R  <u>THUNDERBIRD</u> 60H	A-3	4500	Ford D7AE- 12127-UA	Ford D8SE- 9510-FA (A/C only)  D8SE- 9510-GA	D80E- 9D448-BA	(1) $16^{\circ} \pm 2^{\circ}$ BTDC @ RPM in neutral W/ Vacuum line disconnected and plugged at distributor  (2) Preset at factory. Do not adjust. See Ford 1978 Service Manual.  (3) W/O A/C- $600 \pm 50$ RPM in drive.  W/AC- $600 \pm 50$ RPM in drive with A/C off.  $650 \pm 50$ RPM in drive with A/C on. A/C throttle positioner energized A/C clutch de- energized.

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

\*\* No Service

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1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars       Light-Duty Trucks       Medium Duty Vehicles

Manufacturer Ford Motor Company      Executive Order No. A-10-108      Page 3

Engine Family 351 M/400 "B" (2 X 160)      Engine (CID) 400      Engine Code 8-17P-RO

Emission Control System EGR, AI, 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 1-2V Mfgr. Part Number	EGR System Part No. Service **	Tune-Up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
	<u>FORD</u> 60H      53L 60L      53D 53H      71H 71D	A-3	5000	Ford D7AE- 12127-UA	Ford D8SE 9510-EA (A/C only)	D8ZE- 9D448-DA	(1) 16° + 2° BTDC @ 800 RPM in neutral. W/Vacuum line disconnected and plugged at distributor.
	<u>COUGAR</u> 65D      53D 65L 65L		4500		D8SE- 9510 DA		(2) Preset at factory. Do not adjust. See Ford 1978 Service Manual.
	<u>RANCHERO</u> 97D      97K 97R		4500				(3) W/O A/C-600 ± 50 RPM in drive.
	<u>THUNDERBIRD</u> 60H		5000				W/AC-600 ± 50 RPM in drive with A/C OFF. 650 ± 50 RPM in drive with A/C ON, A/C throttle positioner energized, A/C clutch de-energized.
	<u>MERCURY</u> 53K      53H 65K      65L 65H      53L 71K		5000				
	<u>LTD II</u> 65B      53B 65D      53D 60H		4500				
	<u>MARK V</u> 65D		5000				
	<u>LINCOLN</u> 53B      60B		5000				

Comments: Some models have special road load HP settings.  
See page 1 for abbreviations and model codes.  
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1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars       Light-Duty Trucks       Medium Duty Vehicles

Manufacturer Ford Motor Company      Executive Order No. A-10-108      Page 4

Engine Family 351 M/400 "B" (2 X 160)      Engine (CID) 400      Engine Code 8-17N-RO

Emission Control System EGR, AI, OC      +10%(A/C)      Yes       No

Eng. Code	Vehicle Models (If Coded see attachment)	Trans	Inertia Weight Class	Distributor Type C, V	Fuel System Type 1-2V	EGR System	Tune-Up Specification
				Mfgr. Part Number	Mfgr. Part Number	Part No. Service **	(1) Basic Timing (2) Idle Mixture (3) Idle Speed
	<u>COUGAR</u> 65D      53D 65L  <u>RANCHERO</u> 97D      97K 97R  <u>THUNDERBIRD</u> 60H  <u>LTD II</u> 65B      53B 65D      53D	A-3	4500	Ford D7AE- 12127-UA	Ford D8SE- 9510-EA (A/C only)  D8SE- 9510-DA	DBAE- 9D448-BA	(1) 14° ± 2° BTDC @ 800 RPM in neutral. W/Vacuum line disconnected and plugged at distributor.  (2) Preset at factory. Do not adjust. See Ford 1978 Service Manual  (3) W/O A/C-600 ± 50 RPM in drive.  W/AC-600 ± 50 RPM in drive with A/C OFF. 650 ± 50 RPM in drive with A/C ON, A/C throttle positioner energized, A/C clutch de-energized

Comments: Some models have special road load HP settings.  
 See page T for abbreviations and model codes.  
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1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars     Light-Duty Trucks     Medium Duty Vehicles

Manufacturer Ford Motor Company    Executive Order No. A-10-108    Page 5  
 Engine Family 351 M/400 "B" (2 X 160)    Engine (CID) 351    Engine Code 8-14N-R14  
 Emission Control System EGR, AI, 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 1-2v Mfgr. Part Number	EGR System Part No. Service **	Tune-Up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
	<u>LTD II</u> 65B 65D 53B 53D  <u>COUGAR</u> 65D 53D 65L  <u>RANCHERO</u> 97D 97K 97R  <u>THUNDERBIRD</u> 60H	A-3	4500	Ford D7AE- 12127-UA	Ford D8SE- 9510-FA (A/C only)  D8SE- 9510-GA	D80E- 9D448-BA	(1) $14^{\circ} \pm 2^{\circ}$ BTDC @ 800 RPM in neutral w/ Vacuum line disconnected and plugged at distributor  (2) Preset at factory. Do not adjust. See Ford 1978 Service Manual.  (3) W/O A/C- $600 \pm 50$ RPM in drive. W/AC- $600 \pm 50$ RPM in drive with A/C off.  $650 \pm 50$ RPM in drive with A/C on. A/C throttle positioner energize A/C clutch de- energized.

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 See page 1 for abbreviations and model codes.

\*\* No Service

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