

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-296
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 1986 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 (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
6.1L/7.0L/7.5L"E"	370,429,460(6.1,7.0,7.5)	Air Injection - Pump Exhaust Gas Recirculation

Engine models and codes are listed on attachments.

<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Hydrocarbons + Nitrogen Oxides gm/bhp-hr</u>
6.1L/7.0L/7.5L"E"	0.5	15	4.3

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order.

Executed at El Monte, California this 8th day of July, 1985.


K. D. Drachand, Chief
Mobile Source Division

**1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY GASOLINE ENGINES**

Manufacturer Ford Motor Company Page 1
 Engine Family 6.1L/7.0L/7.5L"E" CID (Liters) 370 (6.1) 429 (7.0)
- Type 429 (7.5) -V8 Eng. Code See below
 ECS and (Special Features) AIP, EGR

Engine Model (Engine Code)	Ignition System -12127- Mfr. Ford Part Number	Fuel System -9510- Mfr. Holley Part Number	EGR Valve -9D475- Mfr. Part Number	Label Ident.
6.1L-2V (4-83R-R10)	E4HE - DA	E2TE - AGA E2TE - NA E5HE-RA/PA	D8BE - BA	AEF
^{7.0} 7.0L-4V (4-83T-R00)	E4HE - CA	E2TE - CMA E2TE - CNA E5HE-UA/VA	D8DE - CA	AEG
7.0L (9-87G-R11)	D9TE-AVA	E5HE - YA/ZA	D8DE - CA	AEM
7.5L (4-98S-R11)	E4HE - AA	E5HE - LB E5HE - MB	D8DE - BA	ADM
7.5L (6-98S-R10)*	E4HE - AA	E6HE - EA E6HE - FA	E2EE - AA	ANJ
7.5L (4-98S-R12)**	E4HE - AA	E6JL - BA	D8DE - BA	ADM

Date of Issue -

* R/C 6.1/7.0/7.5-HD-14

**1986 MODEL-YEAR CERTIFICATION REVIEW SHEET
HEAVY DUTY ENGINE**

E.O. No. A-10-296

Manufacturer Ford Motor Company

Gasoline Diesel Full Ltd Abrv. Eng. Code - Calif. 49S 50

Engine Family 6.1L/7.0L/7.5L"E" CID (Liters)-Type 370(6.1L), 429(7.0L), 460(7.5L) - V8

Exh. ECS and (Special Features) EGR/AIP

1 Authorized Representative	<u>1.00</u>
2 Fuel, Test Equipment, Procedures	<u>Not required</u>
3 Warr. State & Parts List	<u>6.00 & 16</u>
4 Maint: Cert/Req'd Recm'd	<u>6.00</u>
5 Tune-Up Lab./Vac. Hose Diag.	<u>7.00</u>
6 Engine Parameters	<u>10.00</u>
7 Fuel/Ignition Systems	<u>8.02</u>
8 Exhaust Control System	<u>8.09, 8.10</u>

9 Projected Sales	<u>10D</u>	
10 Test Engine Information	Dur.	Emis.
Fleet Approval		<u>10E</u>
Zero Hour Books	<u>1983</u>	<u>1983</u>
Engine Logs	<u>1983</u>	<u>12</u>
Maintenance	<u>1983</u>	<u>12</u>
HC Instrumentation	<u>HFID</u>	<u>HFID</u>
11 Ck for DF, Outlier, Line Xing	<u>16</u>	
12 EPA Certificate		

Statements

1 Gen. Std., Increase in Em., Safety, Mtg. All Req'ments.	<u>.16</u>
2 d. Eng. Same as Test Eng.	<u>16</u>

3 Suitability for 91 RON Fuel	<u>Not applicable</u>
4 Label Durability	<u>7.00</u>

Projected Exhaust Emissions (1)

(Grams Per Brake Horsepower Hour)

Engine Code	Displ. CID	Engine I.D.	Test Loc.	(2) HC	CO	HC+NOx	NOx	or
				(3) <u>1.3</u>	<u>15.5</u>	<u>4.5</u>	<u>5.1</u>	
4-98S-R00	7.5	X3R04-7.5R-1-0057T	Ford	<u>.41</u>	<u>14.0</u>	<u>4.2</u>		
4-83R-R10	6.1	X9R02-6.1-4-106T	Ford	<u>.46</u>	<u>14.9</u>	<u>4.3</u>		

(1) Includes applicable DF's
 (2) Primary Standards (Steady-State) DF's 0.00 0.03 0.00 -
 (3) Optional Standards (Transient Cycle) DF's - - - -
 Useful Life: Assigned yes no; 50,000 Miles/1500 Hours; 50,000 lbs. max.GVWR

Application truck
 Processed by Newton Date 6/14/85 Reviewed by R.J. Kennedy Date 7/3/85

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-297
Relating to Certification of New Heavy-Duty Motor Vehicles

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43835 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 Orders 6-45-3 and 6-45-4;

IT IS ORDERED AND RESOLVED: That 1986 model-year Ford Motor Company motor vehicles which have a manufacturer's gross vehicle weight rating greater than 8500 pounds are certified using the gasoline engines listed below:

<u>Engine Manufacturer</u>	<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Engine Model-Year and Certification Executive Order No.</u>
Ford	6.1L/7.0L/7.5L*E*	370,429,460(6.1,7.0,7.5)	1986 A-10-296
<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Hydrocarbons + Nitrogen Oxides gm/bhp-hr</u>
6.1L/7.0L/7.5L*E*	0.5	15	4.3

BE IT FURTHER RESOLVED: That 1986 model-year vehicle models listed on the attached sheet also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order.

Executed at El Monte, California this 8th day of JULY, 1985.


K. D. Drachand, Chief
Mobile Source Division

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Motor Company Executive Order No. A-10-297 Page 1

Vehicle Models

E-250/350 Vans and Club Wagons with RPO Mid-Ship Fuel Tank
E-250/350 Vans and Club Wagons Aft-Axle Fuel Tank
E-350 Econoline - Cutaway, Stripped Chassis and PDV

F-250 HD/F-350 Chassis Cab (STD and RPO Tanks)
F-250/350 Styleside w/single Rear Wheels (STD and RPO Tanks)
F-350 Styleside w/Dual Rear Wheels (STD and RPO Tanks)

C-600, 700, 800 with 50 gallon "D" tank
F-600, 700, 800 with 50 gallon step tank
F-600, 700, 800 with 35 gallon step tank
B-600, 700 with 60 gallon rectangular tank
B-600, 700 with 30 gallon rectangular tank