

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-300-8

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

THERMO POWER CORPORATION

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-45-9;

IT IS ORDERED AND RESOLVED: That the following 1996 model-year Thermo Power Corporation Otto-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Compressed Natural Gas (CNG)

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
TTC7.0D2CAEA	7.0 (427)	Three-Way Catalytic Converter

Engine models and codes are listed on attachments.

The certification exhaust emission standards for this engine family in grams per brake horsepower-hour are:

<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
1.7	37.1	5.0

The certification exhaust emission values for this engine family in grams per brake horsepower-hour are:

<u>Engine Family</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
TTC7.0D2CAEA	0.3	14.5	1.4

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).


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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 and attachments.

Executed at El Monte, California this 6th day of September 1996.


for R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1996 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY OTTO-STANDARD ENGINES

Manufacturer: THERMO POWER CORP. Engine Family: TTC7.0 D2CAEA
 Displacement: 7.0 / 427 Liters / Cubic Inches
 All Eng Codes in Eng Family: CA X 49S 50S Valves/Cylinder:
 Fuel Type(s): Dedicated X Flex-Fuel Dual-Fuel Bi-Fuel Gasoline CNG X
 LNG LPG M85 M100 Other (specify)
 Maximum Rated Power: 195 HP @ 4000 RPM Engine Configuration: V8
 Exhaust ECS (e.g., OC, TWC, MFI, EGR, TC, CAC): TWC
 (Use abbreviations per SAE J1930 SEP91)

Engine Model (Eng Code)	Rated HP @ RPM	Ignition System or ECM/PCM Part No.	Fuel System Injector & Pump Part No.	EGR Valve Part No.	Catalytic Converter Part No.
1	195 @ 4000	7240310 (GM# 1103992)	7171480 No Pump	Not Used	7330040 (GM# 25130005)

Date Issued:

Revisions: