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State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-17
Relating to Certification of New Motor Vehicle Engines

CUMMINS ENGINE COMPANY, INC.

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 Cummins Engine Company, Inc. 1979 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

| Engine Family | Displacement Cubic Inches | Exhaust Emission Control Systems (Special Features) |
|---|---|---|
| 172C | 903 | (Turbocharged) |

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:

| Engine Family | Hydrocarbons gm/bhp-hr | Carbon Monoxide gm/bhp-hr | Nitrogen Oxides gm/bhp-hr |
|---|---|---|---|
| 172C | 0.5 | 2 | 6.6 |

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 25 day of January, 1979.

G. C. Hass

G. C. Hass, Chief
Vehicle Emissions Control Division

# 1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Cummins Executive Order No. A-21-17 Page 1

Engine Family 172C Engine (CID) 903

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

| Engine Family | Model | Critical Parts List |
|---|---|---|
| 172C | VT-350<br>VT-903 | 0350 |
| | VT-350<br>VT-903 | 0352 |
| | VTB-903 | 0206 |

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# 1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
## HEAVY-DUTY DIESEL ENGINES

Manufacturer Cummins Page 2

Engine Family 172C Engine (CID) 903

Emission Control Systems AFC Type TC

| Engine Model (CPL) | Fuel Injection Pump Mfgr. Part Number | Injector Mfg. Part Number | Maximum Rated HP and RPM | Fuel Rate at Maximum HP $mm^3$/stroke | Basic Initial Timing |
|---|---|---|---|---|---|
| VT-350 VT-903 (0350) | Cummins 217794 217796 3008037 3008909 | Cummins 3003955 #307465 | 350 @ 2400 & derates | 120 | 18° BTDC @ .2032 inch piston travel & @ .083 inch injector push tube travel |
| VT-350 VT-903 (0352) | | | | | 17° BTDC @ .2032 inch piston travel & @ .089 inch injector push tube travel |
| VTB-903 (0206) | | 3010512 #3010513 | 275 & 2100 & derates | 105 | 18° BTDC @ .2032 inch piston travel & @ .084 inch injector push tube travel |
| VTB-903 (0434) R/C 2-172C-79 | | | | | |

Date of Issue -
R/C # 2-172C-79

Abbreviations

Type
NA - Natural Aspiration
TC - Turbocharged
TCA - Turbocharged and Aftercooled

Emission Control Systems
AC - Aftercooler
EGR - Exhaust Gas Recirculation
TD - Throttle Delay
AFC - Air-Fuel Control