

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-11-1 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 and 43102 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 Cummins Engine Company, Inc., 1977 model-year diesel-powered engines in heavy-duty motor vehicles are certified for the engine family described below:

Engine Family	Engine Size (CID)	Engine Model	Туре
093E	855	NTCC-290 NHHTCC-290	Six Cylinder Inline-Turbocharged and Aftercooled

This is an additional engine model to Engine Family 093E.

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the manufacturer affix a decal to the side window to the rear of the driver or, if there is no such window on the driver's side, to the windshield of the motor vehicle.

The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following recommended values:

Engine	HC + NOx	CO	HC	NOx
Family	gm/bhp-hr	gm/bhp-hr	gm/bhp-hr	gm/bhp-hr
093E	Not Applicable	2.7	0.2	6.8

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 3 day of May, 1977.

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G. C. Hass, Chief

Vehicle Emissions Control Division

8/28/2007

1977 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

	DIESEL CHAINE
Manufacturer CUMMINS ENGINE COMPANY INC.	
Manufacturer CUMMINS ENGINE COMPANY, INC.	Executive Order No. A-21-11 Page 1 of 3
	1490
Engine Family 092	·
rigitle raility 032	Engine (CID) 855
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Emission Control Systems Air Fuel Control

	Emission Control	Systems Air Fue	Control T	ypeTC		
crit- ical Parts List (CPL)	Engine Model	Fuel Pump Mfgr. Part Number	Injector Mfg. Part Number	Maximum Rated HP	Fuel Rate at Maximum HP,MM ² /S	Basic Initial Timing
0270	NTCC-230-S	Cumm1ns	Cummins 3003945 *AR-40117	230 @ 1800	138	19 BTDC @ .2032 inch piston travel & @ .052 inch injector push tube travel
	NTCC-230			230 @ 1 900 230 @ 2100 230 @ 2100B	133 126 126	
						:
	Commonte					***

Comments *Correction to 092 Family

Date of Issue: 27 December 1976

Abbreviation

Type

NA - Natural Aspiration

TC - Turbocharged TCA- Turbocharged and Aftercooled

8/28/2007

1977 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

gine Family (ne (CID) <u>855</u> pe <u>TC</u>		
ission Control S	ystems Air Fue	1 Control Ty	peTC		
gine Model	Fuel Pump Mfgr. Part Number	Injector Mfg. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP,MM ² /S	Basic Initial Timing
CC-290 HTC-290 wer Torque 270	Cummins	Cummins 3007168	290 @ 1900 290 @ 2100 270 @ 1900 270 @ 2100 255 @ 1900 255 @ 2100 240 @ 1900 240 @ 2100 290 @ 2100 270 @ 1900 270 @ 2100 270 @ 2100	173 162 159 153 151 145 144 137 173 162 159 153	19 BTDC @ .2032 inch piston travel & @ .110 inch injector push tube travel
CC-250-S		Cummins 3007169	240 @ 2100 250 @ 1800	137	19 BTDC @ .2032 inch
rcc-250			250 @ 1900 250 @ 1900B 250 @ 2100 250 @ 2100B	145 145 138 138	piston trave & @ .105 incl injector pusl tube travel
ments					
e of Issue: 27	December 1976	5			
- I	HTC-290 wer Torque 270 CC-250-S CC-250	Part Number CC-290 Cummins HTC-290 Wer Torque 270 CC-250-S CC-250	Part Number	Part Number Part Number and RPM	Part Number Part Number RPM Maximum HP,MM²/S

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

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1977 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer CUMMINS ENGINE COMPANY, INC. Executive Order No. A-21-11 Page 3 of 3

Engine Family 093E Engine (CID) 855

<u> </u>	Emission Control	Systems Air Fue	Control T	ypeTCA		
Crit- ical Parts List (CPL)	Engine Model	Fuel Pump Mfgr. Part Number	Injector Mfg. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP,MM ² /S	Basic Initial Timing
0294 #0308	NTCC-350	Cummins	Cummins 3010953, or 3011071	350 e 1900 335 e 1900 350 e 2100 320 e 1900 335 e 2100 300 e 1900 320 e 2100 300 e 2100	200 194 189 184 182 175 175	19 BTDC @ .2032 inch piston travel & @ .072 inch injector push tube travel
*0306	NTCC-290		-	290@1900 290@2100 270@1900 270@2100	169 160 159 150	19 BTDC @ .2032 inch Piston travel &@ .065 inch injector push tube travel
	NHHTCC-290			290@1900 290@2100 270@1900 270@2100	169 160 159 150	
L	Ca	<u> </u>	L	Į.	1	1

Comments

*A-21-11-1 EO, add derated 290 HP engine. # R/C 6-093E-77

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NA - Natural Aspiration

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