(Page 1 of 2)

#### State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-6-379 Relating to Certification of New Motor Vehicles.

#### GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; 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 1987 model-year General Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered medium-duty vehicles:

Engine Family	Displacer Cubic Inches		Exhaust Emission Control Systems (Special Features)
H3G5.7T5FCY4 (HGC5.7T5HAC5)	350	(5.7)	Air Injection-Pump Exhaust Gas Recirculation Three-Way Catalyst Oxidation Catalyst Oxygen Sensor (Central Fuel Injection)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per mile
4000-5999	0.50	9.0	1.0
6000 & larger	0.60	9.0	1.5

The following are the certification emission values for this engine family:

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
4000-5999	0.29	8.2	0.3
6000 & larger	0.27	5.1	0.9

BE IT FURTHER RESOLVED: That the listed vehicle models 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 listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 et seq.).

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 and attachment.

Executed at El Monte, California this \_

\_\_day of July, 1986.

K. D. Drachand, Chief Mobile Source Division

(1987)

#### AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: General Motors Corporation

Executive Order No.: A-6-379

Engine Family: H3G5.7T5FCY4

Evaporative Family: 7F0-3G and 7D0-3G

(HGC5.7T5HAC5)

Engine CID (Liters) - Type: 350 (5.7) V-8

#### ABBREVIATIONS:

Ignition System CA-Centrifugal Advance EEC-Electronic Engine Control EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard ECU-Electronic Control Unit

Fuel System CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor

**GM** Abbreviations A/C-Air Conditioning FC-Forward Control HD-Heavy Duty CID-Cubic Inch Displacement TBI-Throttle Body Injection RWD-Rear Wheel Drive 4x2-Two Wheel Drive 4x4-Four Wheel Drive 6x4-Four Wheel Drive

Exhaust Emission Cont System AIP-Air Injection Pump AIV-Air Injection Valve CL-Closed Loop EGR-Exhaust Gas Recirculation EM-Engine Modification OC-Oxidation Catalyst System SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical TR-Thermal Reactor TWC-Three-Way Catalyst System

CCV-Combustion Chamber Valve CFI-Central Fuel Injection DID-Diesel Injection-Direct DIP-Diesel Injection-Prechamber -EFI-Electronic Central Fuel Injection IC-Intercooler/ Aftercooler MFI-Mechanical Fuel Injection TC-Turbocharger

Special Features

Engine: Front (all Vehicles)

Drive: See Chassis Type (Page 2), all 4x2 vehicles are RWD.

ISSUED: 07-16-86 REV. NO .:

## (For CARB Use Only) (1987)

#### AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: General Motors Corporation

Executive Order No.: A-6-379 Evaporative Family: 3F0-3H and 7D0-3G

Engine Family: H3G5.7T5FCY4 (HGC5.7T5HAC5)

Engine CID (Liters) - Type: 350 (5.7) V-8

VEHICLE MODELS:

## CC10703 + E63 (EXAMPLE)

#### Digit 1 Selling Division

C-Chevrolet T-GMC Truck

## Digit 2 Chassis Type

C-Conventional 4x2 G-Forward Control 4x2 (Body Frame Integral) K-Conventional 4x4 M-Forward Control 4x2 (Body Frame Integral) P-Forward Control 4x2 (Conventional) R-Conventional 4x2 S-S10/15 4x2 T-S10/15 4x4 V-Conventional 4x4

## Digit 3 Series/GVWR Range

1-3400 to 7300 lbs 2-6400 to 8600 lbs 3-7400 to 14500 lbs

## Digits 4 & 5 CA Dimension/Model Type

05-Blazer/Jimmy, Step-Van/ Value Van 06-S10/15 07-42"/Pickup, Chassis-Cab 08-FC or Motor Home Chassis, Step-Van/Value Van 09-56"/Suburban, Chassis-Cab, Pickup 10-60" FC Chassis, Chevy Van/Vandura, Sportvan/ Rally, Chassis-Cab, Step-Van/Value Van 11-Motor Home Chassis 13-Chevy Van/Vandura, Sportvan/Rally, Cutaway Van/Vandura Special, Hi-Cube Van/Magnavan 14-84"/FC or Motor Home, Chassis, Chassis-Cab,

Magnavan 18-Motor Home Chassis

Step-Van/Value Van

16-Cutaway Van/Vandura Special, Hi-Cube Van/

## Digits 6 & 7 Cab or Body Style

03-Conventional Cab (S10/15, C-K, R-V)Models)

-Cutaway Van/Vandura Special, Hi-Cube Van/ Magnavan (G Models)

05-Chevy Van/Vandura O6-Suburban/Sportvan/ Rally with Panel Rear Doors

16-Blazer/Jimmy

32-Motor Home Chassis

42-Forward Control Chassis, Step-Van/ Value Van

43-Bonus Cab, Crew Cab

53-Extended Cab (S10/15 Models)

## Digits 8, 9 & 10 Body Ordering Code

ZW9-Base Body C6P-HD Chassis; 8600 1b GVWR C7C-HD Chassis; 10500 lb GVWR C7E-HD Chassis; 11000 lb GVWR E31-Hi-Cube Van (10' Steel 96" Wide) E32-Step-Van/Value Van (Steel) E33-Step-Van/Value Van (Aluminum)

E34-Hi-Cube Van (10' Steel 82" Wide) E36-Hi-Cube Van/Magnavan (10' Aluminum) E37-Utility Box (Aluminum) E38-Hi-Cube Van/Magnavan (12' Steel) E39-Hi-Cube Van/Magnavan (12' Aluminum) E62-Stepside/Fenderside Pickup E63-Fleetwide/Wideside Pickup

ISSUED: 07-16-86 REV. NO.:

(1987)

#### AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

LIGHT DUTY	TRUCKS	MEDIUM DUTY	VEHICLES X	GAS	DIESEL
	<del></del>			<del></del>	<del></del>

Manufacturer: General Motors Corporation

Executive Order No.: A-6-379

Engine Family: H3G5.7T5FCY4 (HGC5.7T5HAC5)

Exhaust Emission Control System: AIP/EGR/TWC/OC/CL (EFI)

Liter (CID): 5.7 (350)

Engine Type: V-8

ENG CODE	VEH MODELS	TRANS TYPE	EQUIV TEST WEIGHT	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
1	CR20903+E63 CR20943 CR20906	A-3	4750 5000 5500	16069871	17087005	17087185	25101074* 25100464**
•	CR30903+E62 CR30903+E63 CR30943 CV20903+E62 CV20903+E63		5000 5500 6000 5000 5250		17087020		
	CV20906 CV30903+E63 CV30943 CG31305 CG31306		6000 5500 6000 4750 5500		17087005		

<sup>\*</sup> Front

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

✓ISSUED: 07-16-86

<sup>\*\*</sup> Rear

(1987)

## AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

LIGHT DUTY TRUCKS	MEDIUM DUTY	VEHICLES X	GAS	DIESEL
			<del></del>	

Manufacturer: General Motors Corporation

Executive Order No.: A-6-379

CFI

Engine Family: H3G5.7T5FCY4

Exhaust Emission Control System: AIP/EGR/TWC/OC/CL (EFI)

(HGC5.7T5HAC5)

Liter (CID): 5.7 (350)

Engine Type: V-8

ENG CODE	VEH MODELS	TRANS TYPE	EQUIV TEST WEIGHT	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
2	CR20903+E62		5000				
	CR20903+E63						
	CR20943		5500				
	CR20906		6000				
	CR30903+E62		5250				
•	CR30903+E63		5500				
	CR30943		6000				
	CV20903+E62		5250		17087020		
	CV20903+E63						
	CV20906		6000				
	CV30903+E63		5500				
	CV30943	,	6000				
	CG31305		5000		17087005		
	CG31306		5500				
3	CR20903+ZW9		8000	16069911		17087187	
	CR30903+ZW9						
	CR30943+ZW9						
	CR31003+ZW9						
	CR31403+ZW9						
	CV30903+ZW9				17087020		

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

ISSUED: 07-16-86

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(1987)

#### AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

GAS X

DIESEL

LIGHT DUTY TRUCKS MEDIUM DUTY VEHICLES X

Manufacturer: General Motors Corporation Executive Order No.: A-6-379

Engine Family: H3G5.7T5FCY4 Exhaust Emission Control System: AIP/EGR/TWC/OC/CL (EFI)

(HGC5.7T5HAC5)

Liter (CID): 5.7 (350)

Engine Type: V-8

ENG CODE	VEH MODELS	TRANS TYPE	EQUIV TEST WEIGHT	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE	CATALYST PART NO.
•	CU20042 7110		0000				
3	CV30943+ZW9		8000				
	CV31003+ZW9						
	CV31403+ZW9						
	CG31303+E31		6000		17087005		
	CG31303+E34						
	CG31303+E36						
	CG31603+E30		6500				
Ţ.	CG31603+E39		6000		•		
	CG31303+ZW9		8000				
	CG31332+ZW9						
	CG31603+ZW9						
	CG31632+ZW9						
	CP30842+E32		7000				
	CP30842+E33		6000				
	CP31042+E32		7500				
	CP31042+E33		6000				
	CP31442+E32		7500				
	CP31442+E33		6500				
	CP31842+E33						
	CP30842+ZW9		8000				
	CP31042+ZW9						
	CP31442+ZW9						
	CP31842+ZW9						

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

SSUED: 07-16-86

REV. NO.: 001

#### (1987)

## AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

LIGHT DUTY TRUCKS\_\_\_\_ MEDIUM DUTY VEHICLES X

GAS X

DIESEL\_\_\_\_

Manufacturer: General Motors Corporation

Executive Order No.: A-6-379

Engine Family: H3G5.7T5FCY4

Exhaust Emission Control System: AIP/EGR/TWC/OC/CL (EFI)

(HGC5.7T5HAC5)

Liter (CID): 5.7 (350)

Engine Type: V-8

ENG CODE	VEH MODELS	TRANS TYPE	EQUIV TEST WEIGHT	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
4	CR20903+ZW9		8000	•			
•	CR30903+ZW9		0000				
	CR30943+ZW9						
	CR31003+ZW9						
	CR31403+ZW9						
	CV30903+ZW9				17087020		
	CV30943+ZW9				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	CV31003+ZW9						
	CV31403+ZW9						
	CG31303+E31		6000		17087005		
	CG31303+E34						
	CG31303+E36						
	CG31603+E30		6500				
	CG31603+E39	,	6000				
	CG31303+ZW9		8000				
	CG31332+ZW9						
	CG31603+ZW9						
	CG31632+ZW9						
	CP30842+E32		7000				
	CP30842+E33		6000				
	CP31042+E32		7500				
	CP31042+E33		6000				
	CP31442+E32		8000				
	CP31442+E33		6500				
	CP31842+E33						
	CP30842+ZW9		8000				
	CP31042+ZW9						
	CP31442+ZW9						
-	CP31842+ZW9						

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower

weight will be used for testing.

UED: 07-16-86

REV. NO.: 001

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#### AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

LIGHT DUTY TRUCKS\_\_\_\_\_ MEDIUM DUTY VEHICLES X GAS X

DIESEL

Manufacturer: General Motors Corporation

Executive Order No.: A-6-379

Engine Family: H3G5.7T5FCY4

(HGC5.7T5HAC5)

Exhaust Emission Control System: AIP/EGR/TWC/OC/CL (EFI)

Liter (CID): 5.7 (350)

Engine Type: V-8

ENG CODE	VEH MODELS	TRANS TYPE	EQUIV TEST WEIGHT	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
5	CR20903+E62 CR20906 CR20943 CR30903+E62 CR30903+E63 CR30943 CV20903+E63 CV20906 CV20906	M-4	5000 6000 5500 5000 5500 6000 5250 6000	16070001, 16075131	17087020	17087185	
6	CV30943  CR20903+E62 CR20906 CR20943 CR30903+E62 CR30903+E63 CR30943 CV20903+E62 CV20903+E63 CV20906 CV30903+E63 CV309043	5000	6000 5500 5250 5500 6000 5250 6000 5500 6000		17087005 17087020		

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

SUED: 07-16-86

REV. NO.: 002

(1987)

#### AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

LIGHT DUTY TRUCKS MEDIUM DUTY VEHICLES X

DIESEL\_\_\_\_

Manufacturer: General Motors Corporation

Executive Order No.: A-6-379

Engine Family: H3G5.7T5FCY4

(HGC5.7T5HAC5)

Engine Type: V-8

Exhaust Emission Control System: AIP/EGR/TWC/OC/CL (EFI)

Liter (CID): 5.7 (350)

ENG CODE	VEH MODELS	TRANS TYPE	EQUIV TEST WEIGHT	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
7	CR20903+ZW9 CR30903+ZW9		8000	16069961	17087005	17087187	
	CR30943+ZW9						
	CR31003+ZW9						
	CR31403+ZW9						
	CV30903+ZW9				17087020		
	CV30943+ZW9						
	CV31003+ZW9						
	CV31403+ZW9						
	CP30842+E32		7000		17087005		
	CP30842+E33		6000				
	CP31042+E32 CP31042+E33		7500 6000				
	CP31442+E32		8000				
	CP31442+E33		6500				
	CP31842+E33		0000				
	CP30842+ZW9		8000				
	CP31042+ZW9						
	CP31442+ZW9						
	CP31842+ZW9						

Comments: See page one for abbreviations and evaporative emission family identification.
Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

SSUED: 07-16-86

REV. NO.: 001

(1987)

#### AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

GAS X LIGHT DUTY TRUCKS\_\_\_\_ MEDIUM DUTY VEHICLES\_X\_ DIESEL

Manufacturer: General Motors Corporation

Executive Order No.: A-6-379

Engine Family: H3G5.7T5FCY4 (HGC5.7T5HAC5)

Exhaust Emission Control System: AIP/EGR/TWC/OC/CL (EFI)

Liter (CID): 5.7 (350) Engine Type: V-8

ENG CODE	VEH MODELS	TRANS TYPE	EQUIV TEST WEIGHT	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
8	CR20903+ZW9		8000			17087187	
	CR30903+ZW9 CR30943+ZW9						
	CR31003+ZW9						
	CR31403+ZW9						
	CV30903+ZW9				17087020		
	CV30943+ZW9						
	CV31003+ZW9						
	CV31403+ZW9						
	CP30842+E32		7000		17087005		
	CP30842+E33		6000				
	CP31042+E32		7500				
	CP31042+E33		6000				
	CP31442+E32		8000				
	CP31442+E33		6500				
	CP31842+E32						
	CP30842+ZW9		8000				
	CP31042+ZW9		0000				
	CP31442+ZW9						
	CP31842+ZW9						
	CIDIOTETENS						

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

ISSUED: 07-16-86

REV. NO.: 001

(1987)

#### AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

LIGHT DUTY TRUCKS	MEDIUM DUTY	VEHICLES X	GAS	DIESEL
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Manufacturer: General Motors Corporation

Executive Order No.: A-6-379

Engine Family: H3G5.7T5FCY4 Exhaust Emission Control System: AIP/EGR/TWC/OC/CL (EFI)

(HGC5.7T5HAC5)

Liter (CID): 5.7 (350)

Engine Type: V-8

ENG CODE	VEH MODELS	TRANS TYPE	EQUIV TEST WEIGHT	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
9	CR20903+ZW9		8000	16069951		17087187	
	CR30903+ZW9						
	CR30943+ZW9						
	CR31003+ZW9						
	CR31403+ZW9				17007000		
	CV30903+ZW9				17087020		
•	CV30943+ZW9						
	CV31003+ZW9						
	CV31403+ZW9 CP30842+E32		7000		17087005		
	CP30842+E33		6000		17007003		
	CP31042+E32		7500				
	CP31042+E33		6000				
	CP31442+E32		7500				
	CP31442+E33		6500				
	CP31842+E33		0300				
	CP30842+ZW9		8000				
	CP31042+ZW9		0000				
	CP31442+ZW9						
	CP31842+ZW9						

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

■ ISSUED: 07-16-86

(1987)

#### AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

LIGHT DUTY TRUCKS MEDIUM DUTY VEHICLES X GAS X DIESEL DIESEL

Manufacturer: General Motors Corporation

Executive Order No.: A-6-379

Engine Family: H3G5.7T5FCY4

5FCY4 Exhaust Emission Control System: AIP/EGR/TWC/OC/CL (EFI)

(HGC5.7T5HAC5)

Liter (CID): 5.7 (350) Engine Type: V-8

ENG CODE	VEH MODELS	TRANS TYPE	EQUIV TEST WEIGHT	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
	CR20903+ZW9		8000				
	CR30903+ZW9						
	CR30943+ZW9						
	CR31003+ZW9						
	CR31403+ZW9						
	CV30903+ZW9				17087020		
	CV30943+ZW9						
_	CV31003+ZW9						
	CV31403+ZW9						
	CP30842+E32		7000		17087005		
	CP30842+E33		6000				
	CP31042+E32		7000				
	CP31042+E33		6000				
	CP31442+E32		7500				
	CP31442+E33 CP31842+E33 CP30842+ZW9		6500				
			8000				
	CP31042+ZW9						
	CP31442+ZW9						
CP31842+ZW9							
11	CG31603+E38		6500	16071501		17087187	
12	CG31603+E38					17087187	

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

'SSUED: 07-16-86

REV. NO.: 001

#### 17-H3G5.7T5TYA9-3A

#### (For CARB Use Only)

(1987)

#### AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES GAS X

DIESEL

Manufacturer: General Motors Corporation Executive Order No.: A-6-380

Engine Family: H3G5.7T5TYA9 Exhaust Emission Control System: AIP/EGR/TWC/CL (CFI)

Liter (CID): 5.0 (305)

Engine Type: V-8

ENG CODE	VEH MODELS	TRANS TYPE	EQUIV TEST WEIGHT	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
19	CR10703+E62 CR10703+E63 CR10903+E63	A-4	<b>4250</b> <b>4500</b>	16066761	17087004	17087201	25101899
20	CR10703+E62 CR10703+E63 CR10903+E63		4250 4500				
	CG11005 CG11305		4750	16066731			
26	CG11005 CG11305		4500				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

ISSUED: 07-02-86

REV. NO.: 001

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