

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER P-6-10
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 1986 model-year General Motors Corporation federally-certified emission control systems are certified for sale in California as described below for gasoline-powered passenger cars:

| <u>Engine Family</u> | <u>Displacement Cubic Inches (Liters)</u> | <u>Exhaust Emission Control Systems (Special Features)</u> |
|----------------------|---|---|
| G1G5.7V8DAAX | 350 (5.7) | Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop (Electronic 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:

| <u>Hydrocarbons Grams per Mile</u> | <u>Carbon Monoxide Grams per Mile</u> | <u>Nitrogen Oxides Grams per mile</u> |
|--|---|---|
| 0.41 | 3.4 | 1.0 |

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

| <u>Hydrocarbons Grams per Mile</u> | <u>Carbon Monoxide Grams per Mile</u> | <u>Nitrogen Oxides Grams per Mile</u> |
|--|---|---|
| 0.37 | 3.4 | 0.6 |

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 "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the Executive Officer has been provided evidence of federal certification of vehicle models listed in the attachments which are not available as California-certified models.

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate that the vehicle manufacturer has sufficient emissions credits for its estimated California sales of federally-certified 1986 model-year vehicles using in the interim the "Guidelines for Certification of 1983 Through 1987 Model-Year Federally Certified Light-Duty Motor Vehicles For Sale in California" (Title 13, California Administrative Code, Section 1960.5).

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 9th day of August, 1985.



K. D. Drachand, Chief
Mobile Source Division

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 1

Manufacturer General Motors Corporation Executive Order No. P-6-10
 Engine Family G1G5.7V8DAAX Evaporative Family 680L-1A
 Engine CID (Liters) 350 (5.7L)

ABBREVIATIONS

Ignition System

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

Exhaust Emissions Control System

AIP-Air Injection-Pump
 AIV-Air Injection-Valve
 CL-Closed Loop
 EGR-Exhaust Gas Recirculation
 EM-Engine Modification
 OC-Oxidation Catalyst System
 TOC-Trap Oxidizer Continual
 TOP-Trap Oxidizer Periodical
 TR-Thermal Reactor
 TWC-Three-Way Catalyst System

Special Features

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

Fuel System

CFI, CL, DID, DIP, EFI, MFI
 nV-nVenturi Carburetor
 V-Variable Venturi

VEHICLE MODELS:

| <u>DIV</u> | <u>BB</u> | <u>TM</u> | <u>BT</u> | <u>MODEL NAME</u> |
|------------|-----------|-----------|-----------|----------------------|
| 1 | | | | CHEVROLET |
| | Y | Y | 07 | Corvette Sport Coupe |
| | | | 67 | Corvette Convertible |

DRIVE AXLE: Rear Wheel

DRIVE SYSTEM: _____ Engine/ _____ -Wheel Drive

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corporation Executive Order No. P-6-10 Page 1
 Engine Family G1G5.7V8DAAX Evaporative Family 6B0L-1A
 Engine CID (Liters) - Type 350 (5.7L)

ABBREVIATIONS

Ignition System

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

Exhaust Emissions Control System

AIP-Air Injection-Pump
 AIV-Air Injection-Valve
 CL-Closed Loop
 EGR-Exhaust Gas Recirculation
 EM-Engine Modification
 OC-Oxidation Catalyst System
 TR-Thermal Reactor
 TWC-Three Way Catalyst System

Headings

AIR COND-Air Conditioning
 BB-Basic Body
 BT-Body Type
 DI-Diesel Injection
 DIN-Diesel Injector Nozzles
 DIV-Division
 ECM-Electronic Control Module
 ETW-Equivalent Test Weight
 TLC-Tune-Up Label Code
 TNS-Transmission
 TM-Trim

Fuel System

CFI,CL,DID,DIP,EFI,MFI,TBI
 nV-nVenturi Carburetor
 VV-Variable Venturi

Special Features

CCV-Combustion Chamber Valve
 CFI-Central Fuel Injection
 DID-Diesel Injection-Direct
 DIP-Diesel Injection-Prechamber
 MFI-Mechanical Fuel Injection
 TC-Turbocharged
 TBI-Throttle Body Injection
 EFI-Electronic Fuel Injection

| <u>DIV</u> | <u>BB</u> | <u>TM</u> | <u>BT</u> | <u>MODEL NAME</u> | <u>DIV</u> | <u>BB</u> | <u>TM</u> | <u>BT</u> | <u>MODEL NAME</u> |
|------------|-----------|-----------|-----------|----------------------|------------|-----------|-----------|-----------|-------------------|
| 1 | | | | CHEVROLET | | | | | |
| | Y | Y | 07 | Corvette Sport Coupe | | | | | |
| | | | 67 | Corvette Convertible | | | | | |

DRIVE AXLE: Rear Wheel

ISSUED:

REVISIONS:

0171N

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Form 2

Manufacturer General Motors Corporation Executive Order No. P-6-10 Page 2
 Engine Family G1G5.7V8DAAX Exhaust Emission Control System API,TWC,EGR,CL,(EFI)

| ENG. CID | ENG. CODE | AIR COND | ECM PART NO. | INJECTOR PART NO. | EGR VALVE PART NO. | ETW | DIV | B T | | | REV. TLC NOTES | |
|-------------|--------------|-------------|-----------------|----------------------|-----------------------|------|-----|-----|----|-----|-------------------|-----|
| | | | | | | | | B | M | BT | | |
| 3F0 | 1 | W & WO | 16048941 | 17085019 | 17086078 | 3375 | 1 | Y | | 07 | A-4 | YDK |
| | | | | | | 3500 | 1 | Y | | 07 | | |
| | 3 | | 16048931 | | | 3500 | 1 | Y | | 07 | M-4 | |
| | | | | | | | | | | | | |
| | 5 | | 16048951 | | | 3375 | 1 | Y | | 07 | | |
| | | | | | | | | | | | | |
| | 7 | | 16054541 | | | 3500 | 1 | Y | | 67 | A-4 | |
| | | | | | | | | | | | | |
| | 9 | | 16054551 | | | 3500 | 1 | Y | | 67 | M-4 | |
| | | | | | | | | | | | | |
| | 11 | | 16054561 | | | 3500 | 1 | Y | | 67 | | |
| | | | | | | | | | | | | |
| | 21 | | 16048921 | | | 3500 | 1 | Y | | 07 | A-4 | |
| | | | | | | | | | | | | |
| 23 | | 16058861 | | | 3375 | 1 | Y | | 07 | M-4 | | |
| | | | | | | | | | | | | |
| 25 | | 16058871 | | | 3500 | 1 | Y | | 67 | | | |
| | | | | | | | | | | | | |

NOTE: Model 1YY07 equipped with 18 gallon fuel tank has ETW = 3375.
 Otherwise, model 1YY07 has ETW = 3500.

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.

ISSUED:

REVISIONS:

0171N

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. P-6-10 Page 2

Engine Family G1G5.7V8DAAX Exhaust Emission Control System AIP, TWC, EGR, CL (EFI)

| ENG. CID | ENG. CODE | AIR COND | ECM PART NO. | RAIL & | EGR VALVE PART NO. | ETW | DIV | B T | | BT | TNS | TLC | REV. NOTES | | | | | | | | | | |
|----------|-----------|-----------|--------------|-------------------|--------------------|------|-----|-----|-----|-----|-----|-----|------------|--------|---|---|----|-----|--|--|--|--------|---|
| | | | | INJECTOR PART NO. | | | | B | T | | | | | | | | | | | | | | |
| 350 | 1 | W & WO | 1604894I | 17085019 | 17086078 | 3500 | 1 | Y | 07 | A-4 | YDK | | | | | | | | | | | | |
| | 1A | | 1605935I | | | | | | | | | | | | | | | | | | | | |
| | 1B | | 1606223I | | | | | | | | | | | | | | | | | | | | |
| | 2 | | 1605972I | | | | | | | | | | | 3500 | 1 | Y | 07 | | | | | | |
| | 3 | | 1604893I | | | | | | | | | | | 3500 | 1 | Y | 07 | M-4 | | | | | |
| | 3A | | 1605934I | | | | | | | | | | | | | | | | | | | | |
| | 3B | | 1606345I | | | | | | | | | | | | | | | | | | | A C | |
| | 4 | | 1605971I | | | | | | | | | | | 3500 | 1 | Y | 07 | | | | | B | |
| | 5 | | 1604895I | | | | | | | | | | | 3500 | 1 | Y | 07 | | | | | | A |
| | 5A | | 1605936I | | | | | | | | | | | | | | | | | | | | |
| | 6 | | 1605973I | | | | | | | | | | | 3500 | 1 | Y | 07 | | | | | | B |
| | 7 | | 1605454I | | | | | | | | | | | 3500 | 1 | Y | 67 | A-4 | | | | | |
| 7A | | 1605939I | | | | | | | | | | | | | | | | | | | | | |
| 7B | | 1606225I | | | | | | | | | | | | A C | | | | | | | | | |
| 8 | | 1605976I | | | 3500 | 1 | Y | 67 | | | | | | B | | | | | | | | | |
| 9 | | 1605455I | | | 3500 | 1 | Y | 67 | M-4 | | | | | | | | | | | | | | |
| 9A | | 1605940I | | | | | | | | | | | | | | | | | | | | | |
| 9B | | 1606343I | | | | | | | | | | | | A C | | | | | | | | | |
| 10 | | 1605977I | | | 3500 | 1 | Y | 67 | | | | | | B | | | | | | | | | |
| 11 | | 1605456I | | | 3500 | 1 | Y | 67 | | | | | | | | | | | | | | | |
| 11A | | 1605941I | | | | | | | | | | | | A | | | | | | | | | |
| 12 | | 1605978I | | | 3500 | 1 | Y | 67 | | | | | | B | | | | | | | | | |

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.

ISSUED:

REVISIONS: A. Engine codes 1A, 3A, 5A, 7A, 9A, 11A, 21A, 23A and 25A added by RC 61-058 on 08-05-86. B. Engine codes 2, 4, 6, 8, 10, 12, 22, 24 and 26 added by RC 61-071 on 08-07-85. C. Engine codes 1B, 3B, 7B, 9B, 21B and 23B added by RC 61-144 on 01-30-86.

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1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. P-6-10 Page 3
 Engine Family G1G5.7V8DAAX Exhaust Emission Control System AIP, TWC, EGR, CL (EFI)

| ENG. CID | ENG. CODE | AIR COND | ECM PART NO. | RAIL & INJECTOR | | EGR VALVE PART NO. | ETW | DIV | B T | | BT | TNS | TLC | REV. NOTES | |
|-------------|---------------|-------------|-----------------|--------------------|----------|-----------------------|-----|-----|-----|-----|-----|-----|-----|---------------|--------|
| | | | | PART NO. | PART NO. | | | | B | T | | | | | |
| 350 | 21 | W & WO | 1604892I | 17085019 | 17086078 | 3500 | 1 | Y | 07 | A-4 | YDK | | | | |
| | 21A | | 1605933I | | | | | | | | | | | | |
| | 21B | | 1606224I | | | | | | | | | | | | A C |
| | 22 | | 1605970I | | | 3500 | 1 | Y | 07 | | | | | | B |
| | 23 | | 1605886I | | | 3500 | 1 | Y | 07 | M-4 | | | | | |
| | 23A | | 1605942I | | | | | | | | | | | | A |
| | 23B | | 1606344I | | | | | | | | | | | | C |
| | 24 | | 1605979I | | | 3500 | 1 | Y | 67 | | | | | | B |
| | 25 | | 1605887I | | | 3500 | 1 | Y | 67 | | | | | | |
| | 25A | | 1605943I | | | | | | | | | | | | A |
| | 26 | | 1605980I | | | 3500 | 1 | Y | 67 | | | | | | B |

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.

ISSUED: REVISIONS: A. Engine codes 1A, 3A, 5A, 7A, 9A, 11A, 21A, 23A and 25A added by RC 61-058 on 08-05-86. B. Engine codes 2, 4, 6, 8, 10, 12, 22, 24 and 26 added by RC 61-071 on 08-07-85. Engine codes 1B, 3B, 7B, 9B, 21B and 23B added by RC 61-144 on 01-30-86.