

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-133  
Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Sections 43100, 43102, 43103, and 43835; 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 General Motors Corporation exhaust emission control systems for 1978 model-year passenger cars are certified for the vehicles described below:

- Engine Family: 840E5VT
- Displacement: 231 CID
- Exhaust Emission Control Systems: Air Injection, Early Fuel Evaporation, Exhaust Gas Recirculation, Electronic Spark Advance Control, Oxidation Catalyst, Turbo Charged

Models, Transmissions and Engine Codes as listed in attachment.

The following are the recommended values to be listed on the window decal required by California Assembly-Line Test Procedures for 1978 model-year vehicles:

| <u>Engine Family</u> | <u>Hydrocarbons<br/>Grams per Mile</u> | <u>Carbon Monoxide<br/>Grams per Mile</u> | <u>Nitrogen Oxides<br/>Grams per Mile</u> |
|----------------------|--|---|---|
| 840E5VT              | .32                                    | 7.2                                       | 1.2                                       |

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" (13 California Administrative Code, Section 2290) for the aforementioned model year, or have been granted a temporary exemption from the aforementioned "Specifications" by Executive Order AA-6 series.

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 except Motorcycles".

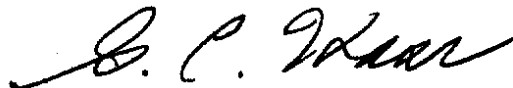
GENERAL MOTORS CORPORATION

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Vehicles 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 27 day of March, 1978.



G. C. Hass, Chief  
Vehicle Emissions Control Division

Manufacturer GENERAL MOTORS CORPORATION Executive Order No. A-6-133 Page 1

Engine Family 840E5VT Engine (CID) 231

ABBREVIATIONS

|                                      |                                 |   |
|--------------------------------------|---------------------------------|---|
| <u>Distributor</u>                   | <u>Exhaust Emission Control</u> | ESAC-Electronic Spark Advance Control     |
| C-Centrifugal Advance                | AI-Air Injection                | OC-Oxidation Catalyst                     |
| V-Vacuum Advance                     | CAI-Catalyst Air Injection      | PAI-Pulse Air Injection                   |
| VR-Vacuum Retard                     | EFI-Electronic Fuel Injection   | TC-Turbo Charged                          |
| HEI-High Energy Ignition Fuel System | EGR-Exhaust Gas Recirculation   | TWC-Three Way Catalyst (Feedback Control) |
| EFI                                  | EM-Engine Modification          |   |
| nV-nVenturi Carburetor               | EFE-Early Fuel Evaporation      |   |

Division  
Basic Body  
Trim  
Body Type

4 BUICK  
A K 47 Regal Sport Coupe

|   |   |             |  |              |
|---|---|-------------|--|--------------|
| <b>NS</b><br>231 CU. IN.<br>840 E5VT<br>8BFV  | <b>VEHICLE EMISSION CONTROL INFORMATION</b><br>GENERAL MOTORS CORPORATION | TIMING MARK | <b>CATALYST</b><br>EGR - EFE - AIR<br>LOW ALTITUDE CERTIFICATION   | TRANSMISSION |
|   |   |             |  | AUTOMATIC    |
| MAKE ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE OPEN, AIR CLEANER ON, AND WHERE APPLICABLE, AIR CONDITIONING OFF. PLUG DISCONNECTED VACUUM FITTINGS AND / OR HOSES. |   |             | TIMING (°B.T.D.C. @RPM)  | 15° @ 650    |
| SET PARKING BRAKE AND BLOCK WHEELS  |   |             | SPARK PLUG TYPE  | R44TSX       |
| 1. DISCONNECT AND PLUG DISTRIBUTOR VACUUM HOSE TO CARB. AND EGR HOSE TO EGR VALVE.  |   |             | GAP  | .060         |
| 2. SET TIMING AT SPECIFIED R.P.M. RECONNECT DISTRIBUTOR ADVANCE HOSE.   |   |             | CARB. SCREW (RPM)  | 650(DRIVE)   |
| 3. ADJUST CARBURETOR SPEED SCREW TO SPECIFIED R.P.M. IN DRIVE.  |   |             | FAST IDLE SCREW (4-88L)  | 2500(PARK)   |
| 4. WITH TRANS. IN PARK SET FAST IDLE TO SPECIFIED SPEED ON HIGHEST CAM STEP.  |   |             | IDLE MIXTURE SCREWS ARE PRESET AND CAPPED AT FACTORY — <b>DO NOT BREAK CAPS</b> — ADJUSTMENT DURING TUNE-UP IS <b>NOT</b> RECOMMENDED.                 |              |
| 5. RECONNECT EGR HOSE. (SEE SERVICE MANUAL AND MAINTENANCE SCHEDULE III FOR ADDITIONAL INFORMATION.)  |   |             | FOR MAJOR REPAIR, ADJUSTING MIXTURE SETTING BY OTHER THAN APPROVED SERVICE MANUAL PROCEDURE MAY VIOLATE FEDERAL AND/OR CALIFORNIA OR OTHER STATE LAWS. |              |
| FAST IDLE CAM<br>HIGH STEP<br>FAST IDLE SCREW   |   |             | PART NO. 1264432   |              |
| THIS VEHICLE CONFORMS TO U.S. EPA, AND CALIFORNIA, REGULATIONS APPLICABLE TO 1972 MODEL YEAR NEW MOTOR VEHICLES.  |   |             |  |              |

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET - GM FORMAT

Passenger Cars

Manufacturer: General Motors Corporation

Executive Order No. A-6-133 Pg. 2

Engine Family 84QE5VT Engine (CID) 231 Transm. A-3

Exhaust Emission Control System AI,EFE,EGR,ESAC,OC,TC +10% (A/C) Yes  No

| Eng. Code | Air Cond. | Distrib. Type ESAC C,V<br>Mfgr. Part No. | Fuel System 4V,TC<br>Mfgr. Part No. | EGR System Part No. Service | Inertia Wt. Class | Divisions | Basic Body | Trim | Body Type | Trans-mission | Tune-up Label & Page No. | Rev. Notes |
|-----------|-----------|--|-------------------------------------|-----------------------------|-------------------|-----------|------------|------|-----------|---------------|--------------------------|------------|
| 1         | W or WO   | Delco 1110764                            | Rochester 17058540                  | 17056213<br>No Service      | 3500              | 4         | A          |      | 47        | A-3           | NS 1                     |            |

Comments All models have special road load HP settings. See page one for abbreviations.

Date of Issue 032078. Revisions: