

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-134  
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: 840E6YU  
Displacement: 231 CID  
Exhaust Emission Control Systems: Three Way Catalyst,  
Exhaust Gas Recirculation,  
Early Fuel Evaporation

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 Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
840E6YU	0.24	8.7	0.9

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.

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".

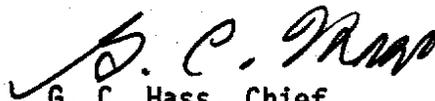
GENERAL MOTORS CORPORATION

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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 30 day of March, 1978



G. C. Hass, Chief  
Vehicle Emissions Control Division

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET-GM FORMAT

Manufacturer GENERAL MOTORS CORPORATION Executive Order No. A-6-134 Page 1

Engine Family 840E6YU Engine (CID) 231

ABBREVIATIONS

Distributor  
 C-Centrifugal Advance  
 V-Vacuum Advance  
 VR-Vacuum Retard  
 HEI-High Energy Ignition  
 Fuel System  
 EFI  
 nV-nVenturi Carburetor

Exhaust Emission Control  
 AI-Air Injection  
 CAI-Catalyst Air Injection  
 EFI-Electronic Fuel Injection  
 EGR-Exhaust Gas Recirculation  
 EM-Engine Modification  
 EFE-Early Fuel Evaporation

ESAC-Electronic Spark  
 Advance Control  
 OC-Oxidation Catalyst  
 PAI-Pulse Air Injection  
 TC-Turbo Charged  
 TWC-Three Way Catalyst  
 (Feedback Control)

Division	Basic Body	Trim	Body Type
4	H		07

BUICK  
 Skyhawk

NK  
 231 CI. IN.  
 840E6YU  
 880V

VEHICLE EMISSION CONTROL  
 INFORMATION  
 GENERAL MOTORS CORPORATION



CATALYST

TRANSMISSION

800 - 875 LOW ALTITUDE CERTIFICATION	AUTOMATIC	
TIMING (°B.T.D.C. @ RPM)	18° @ 420	
SPARK PLUG	TYPE	BASTEX
	GAP	.040
CARB SCREW (RPM)	600 (DRIVE)	
SOLENOID SCREW (RPM)	600 (DRIVE)	
FAST IDLE SCREW (RPM)	2400 (PARK)	

SET PARKING BRAKE AND BLOCK WHEELS

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, UNLESS OTHERWISE SPECIFIED.

1. DISCONNECT AND PLUG BOTH DISTRIBUTOR VACUUM HOSES FROM DISTRIBUTOR VACUUM  
 CAN. BOE HOSE TO BOE VALVE AND FUDGE HOSE TO VAPOR CARBURETOR.
2. SET THE TIMING AT SPECIFIED R.P.M.
3. DISCONNECT CARBURETOR CLOSED LOOP SOLENOID WIRE. ADJUST CARBURETOR SPEED  
 SCREW TO SPECIFIED R.P.M. IN DRIVE. ON NON AIR CONDITIONED CARS NOW DISCONNECT  
 BOTH HOSES TO DISTRIBUTOR VACUUM CAN AND WIRE TO CLOSED LOOP SOLENOID.
4. ON AIR CONDITIONED CARS, AFTER COMPLETING THE ABOVE ADJUSTMENTS, A/C ON,  
 DISCONNECT ELECTRICAL CONNECTOR AT A/C COMPRESSOR CLUTCH. MANUALLY EXTEND  
 SOLENOID SCREW AND ADJUST TO SPECIFIED R.P.M. IN DRIVE. DISCONNECT BOTH HOSES  
 TO THE DISTRIBUTOR VACUUM CAN AND WIRE TO CLOSED LOOP SOLENOID.
5. WITH A/C OFF, DISCONNECT WIRE TO SWITCH IN THERMOSTAT HOUSING AND GROUND  
 THE WIRE WITH A JUMPER. SET FAST IDLE CAM ON HIGH STEP. ADJUST FAST IDLE SCREW  
 TO SPECIFIED R.P.M. IN PARK. REMOVE GROUND JUMPER AND RECONNECT WIRE TO  
 SWITCH.
6. RECONNECT CARBURETOR AND BOE VALVE HOSES. (SEE SERVICE MANUAL AND  
 MAINTENANCE SCHEDULE E FOR ADDITIONAL INFORMATION.)



IDLE MIXTURE SCREWS ARE PRESET AND CAPPED AT  
 FACTORY. DO NOT BREAK CAPS. ADJUSTMENT  
 DURING TUNE-UP IS **NOT** RECOMMENDED.  
 FOR MAJOR REPAIR, ADJUSTING MIXTURE SETTING  
 BY OTHER THAN APPROVED SERVICE MANUAL  
 PROCEDURE MAY VIOLATE FEDERAL AND/OR  
 CALIFORNIA OR OTHER STATE LAWS.

PART NO. 1289999

EXCEPT COMPONENTS TO U.S., CAN. AND CALIFORNIA. REGULATIONS APPLICABLE TO THIS MODEL YEAR NEW MOTOR VEHICLES.

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET - GM FORMAT

Passenger Cars

Manufacturer: General Motors Corporation

Executive Order No. A-6-134 Pg. 2

Engine Family 840E6YU

Engine (CID) 231

Transm. A-3

Exhaust Emission Control System TWC,EGR,EFE

+10% (A/C)

Yes

No

Eng. Code	Air Cond.	Distrib. Type HEI C,V,VR Mfgr. Part No.	Fuel System 2V 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 W/O	DelcoRemy 1110728	Rochester 17058498	17056469 No Service	3500	4	H		07	A-3	NK 1	

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

Date of Issue 032778. Revisions: "or W/O" added to Air Cond. column by RC 84-198, on 062378.