

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-112
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: 810Y2V
- Engine: 305 CID
- Transmission: 3-speed Automatic
- Exhaust Emission Control Systems: Air Injection, Early Fuel Evaporation, Exhaust Gas Recirculation, Oxidation Catalyst

Models 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>
810Y2V	.30	4.7	1.2

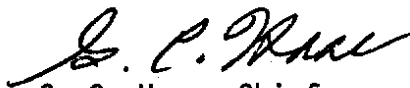
BE IT FURTHER RESOLVED: That the above models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (13 California Administrative Code, Section 2290) for the aforementioned model year, or have been granted a temporary exemption from the aforementioned "Specifications" by Executive Order AA-6 series.

BE IT FURTHER RESOLVED: That the above models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-powered Motor Vehicles except Motorcycles".

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 26 day of August, 1977.



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-6-112 Page 1

Engine Family 810Y2V Engine (CID) 305

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		DIVISION	BASIC BODY	TRIM	BODY TYPE		DIVISION	BASIC BODY	TRIM	BODY TYPE
<u>Chevrolet Models</u>					<u>Pontiac Models</u>					<u>Oldsmobile Models</u>				
Impala Coupe	1	B	L	47	Grand Prix SJ	2	G	H	37	Cutlass Salon Coupe	3	A	G	87
Impala Sedan	1	B	L	69	Grand Prix	2	G	J	37	Cutlass Salon Sedan	3	A	G	09
Caprice Classic Coupe	1	B	N	47	Grand Prix LJ	2	G	K	37	Cutlass Salon Brougham	3	A	J	87
Caprice Classic Sedan	1	B	N	69	LeMans Coupe	2	A	D	27	Cutlass Salon Brougham	3	A	J	09
Monte Carlo	1	A	Z	37	LeMans Sedan	2	A	D	19	Sedan	3	A	R	47
El Camino	1	A	W	80	LeMans Safari Station	2	A	D	35	Cutlass Supreme Coupe	3	A	M	47
Caballero	5	A	V	80	Wagon	2	A	F	27	Cutlass Supreme Brougham Coupe	3	A	K	47
Malibu Coupe	1	A	T	27	Grand LeMans Coupe	2	A	F	19	Cutlass Calais Coupe	3	A	K	47
Malibu Sedan	1	A	T	19	Grand LeMans Sedan	2	A	F	19	Cutlass Cruiser	3	A	R	35
Malibu Station Wagon	1	A	T	35	Grand AM Coupe	2	A	G	27	Starfire SK	3	H	D	07
Malibu Classic Coupe	1	A	W	27	Grand AM Sedan	2	A	G	19	Starfire	3	H	T	07
Malibu Classic Sedan	1	A	W	19	Grand LeMans Safari	2	A	F	35	Station Wagon				
Malibu Classic Station	1	A	W	35	Phoenix Hatchback Coupe	2	X	Y	17	<u>Buick Models</u>				
Wagon					Phoenix Coupe	2	X	Y	27	LeSabre Coupe	4	B	N	37
Nova Hatchback Coupe	1	X	X	17	Phoenix Sedan	2	X	Y	69	LeSabre Sedan	4	B	N	69
Nova Coupe	1	X	X	27	Phoenix LJ Coupe	2	X	Z	27	LeSabre Custom Coupe	4	B	P	37
Nova Sedan	1	X	X	69	Phoenix LJ Sedan	2	X	Z	69	LeSabre Custom Sedan	4	B	P	69
Nova Custom Coupe	1	X	Y	27	Firebird	2	F	B	87	Century Special Coupe	4	A	E	87
Nova Custom Sedan	1	X	Y	69	Regit	2	F	T	87	Century Special Sedan	4	A	E	09
Camaro	1	F	Q	87	Formula	2	F	U	87	Century Special Wagon	4	A	E	35
Camaro "Type LT"	1	F	S	87	Sunbird Sport Coupe	2	H	H	27	Century Sport Coupe	4	A	G	87
Monza Coupe	1	H	H	27	Sunbird Coupe	2	H	E	27	Century Custom Coupe	4	A	R	87
Monza Sport Coupe	1	H	R	27	Sunbird Sport Hatchback	2	H	H	07	Century Custom Sedan	4	A	H	09
Monza 2+2 Hatchback	1	H	H	07	Coupe					Century Custom Wagon	4	A	H	35
Coupe										Century Limited Coupe	4	A	L	87
Monza 2+2 Sport Hatchback	1	H	R	07						Century Limited Sedan	4	A	L	09
Coupe										Regal Coupe	4	A	J	47
										Regal Limited Coupe	4	A	H	47

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET - GM FORMAT

Passenger Cars

Manufacturer: General Motors Corporation

Executive Order No. A-6-112 Pg. 2

Engine Family 810Y2V Engine (CID) 305 Transm. _____

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

Eng. Code	Air Cond.	Distrib. Type HEI C,V Mfr. Part No.	Fuel System 2V Mfr. 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	1103282 Delco-Remy	17058405	17056495	3500	1	H		07	A-3	DR 5		
2	WO		17058404			1	H		07				
3	W		17058405	17056493		1	H	R	07				
4	WO		17058404			23	H		07				
						2	H		27				
						1	H	R	07				
				23	H		07						
				2	H		27						
5	W		17058410	17056494	4000	123	A		35	DN 5			
						1	5	A					80
						12		X					17
						12		X					27
				12		X		69					
			17058414			4	A		35			B	
						12	F		87			B	
6	WO		17058408		3500	1	5	A	80				
					4000	123		A	35			C	
						12		X	17				
						12		X	27				
						12		X	69				

Code 6 is continued on page 3.

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

Date of Issue 091277 Revisions: A. 3H 27 deleted from E.C.3&4;
 B. A & F models with 17058414 carburetor added to E.C.5; C. 23A 35 models in EC6 added to carb. 17058408, by correction 35P; carb. 17058412 and related models moved to page 3, on 040578.

Passenger Cars

Manufacturer: General Motors Corporation

Executive Order No. A-6-112 Pg. 2

Engine Family 810Y2V Engine (CID) 305 Transm. _____

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

Eng. Code	Air Cond.	Distrib. Type HEI C,V 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	1103282 Delco-Remy	17058405	17056495	3500	1	H		07	A-3	DR 5		
2	WO		17058404			1	H		07				
3	W		17058405	17056493		1	H	R	07				
4	WO		17058404			23	H		07				
5	W		17058410	17056494		4000	1	A					35
							5	A					80
			12		X			17					
			12		X			27					
		17058414			4	A		35					
					12	F		87					
6	WO	17058408			3500	1	A		80				
					4000	123	A		35				
						12	X		17				
						12	X		27				
						12	X		69				

Code 6 is continued on page 3.

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 B. A & F models with 17058414 carburetor added to E.C.5; C. 23A 35 models in EC6 added to carb. 17058408, by correction 35P; carb. 17058412 and related models moved to page 3, on 033178.

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET - GM FORMAT

Passenger Cars

Manufacturer: General Motors Corporation

Executive Order No. A-6-112 Pg. 3

Engine Family 810Y2V Engine (CID) 305 Transm. _____

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

Eng. Code	Air Cond.	Distrib. Type HEI C,V 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
6	WO	1103282 Delco-Remy	17058412 RDP/Bay City	17056494	4000	4	A		35	A-3	DN 5	AB
						12	F	87				
7	W		17058410	17056493, 17056495	3500	3	A		09			
						12	A	19				
						12	A	27				
						1	A	37				
						3	A	47				
						3	A	87				
2	G	37										
			17056493	4000		4	B		37			C
						1	B		47			C
						1	B		69			C
			17058414	17056493, 17056495	3500	4	A		09			D
						4	A		47			D
						4	A		87			D

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

Date of Issue 091277. Revisions: A. Carb. 17058412 and related models moved from page 2; B. 23A 35 models deleted from Carb. 17058412; C. 4B 37&69 models moved from carb 1705414 to Carb. 17058410, by correction 35P; D. EGR valve 17056495 added by FF81-184, on 040578.

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET - GM FORMAT

Passenger Cars

Manufacturer: General Motors Corporation

Executive Order No. A-6-112 Pg. 3

Engine Family 810Y2V Engine (CID) 305 Transm. _____

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

Eng. Code	Air Cond.	Distrib. Type HEI C,V 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
6	WO	1103282 Delco-Remy	17058412 RDP/Bay City	17056494	4000	4	A		35	A-3	DN 5	AB
						12	F		87			
7	W		17058410	17056493, 17056495	3500	3	A		09			D
						12	A		19			
						12	A		27			
						1	A		37			
						3	A		47			
						3	A		87			
						2	G		37			
				17056493	4000	4	B		37			C
						1	B		47			C
						1	B		69			
			17058414	17056493, 17056495	3500	4	A		09			D
						4	A		47			
						4	A		87			

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

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1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET - GM FORMAT

Passenger Cars

Manufacturer: General Motors Corporation

Executive Order No. A-6-112 Pg. 4

Engine Family 810Y2V Engine (CID) 305 Transm. _____

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

Eng. Code	Air Cond.	Distrib. Type HEI 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
8	NO	1103282 Delco- Remy	17058408 RPD/Bay City	17056493 , 17056495	3500	3	A		09	A-3	DN 5	B
						12	A		19			
						12	A		27			
						1	A		37			
						3	A		47			
						3	A		87			
						2	G		37			
						4	B		37			
						1	B		47			
						1	B		69			
			17058412	17056493, 17056495	3500	4	A		09		A	
						4	A		47		A	
						4	A		87		B	

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

Date of Issue 091277 Revisions: A. 4B 37 & 69 models moved from carb 17058412 to carb 17058408 by correction 35P; B. EGR valve 17056495 added by Field Fix 81-184, on 040578.

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET - GM FORMAT

Passenger Cars

Manufacturer: General Motors Corporation

Executive Order No. A-6-112 Pg. 4

Engine Family 810Y2V Engine (CID) 305 Transm. _____


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

Eng. Code	Air Cond.	Distrib. Type HEI 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
8	WO	1103282 Delco- Remy	17058408 RPD/Bay City	17056493 , 17056495	3500	3	A		09	A-3	DN 5	B
						12	A		19			
						12	A		27			
						1	A		37			
						3	A		47			
						3	A		87			
						2	G		37			
						4	B		37			
						1	B		47			
						1	B		69			
			17058412	17056493, 17056495	3500	4	A		09			
						4	A		47			
						4	A		87			

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

Date of Issue 091277 Revisions: A. 4B 37 & 69 models moved from carb 17058412 to carb 17058408 by correction 35P; B. EGR valve 17056495 added by Field Fix 81-184, on 033178.

DR
 305 CU. IN.
 810Y2V
 88CV


VEHICLE EMISSION CONTROL INFORMATION 
 GENERAL MOTORS CORPORATION

SET PARKING BRAKE AND BLOCK DRIVE WHEELS.

MAKE ALL ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE FULL OPEN, AIR CLEANER INSTALLED, AND AIR CONDITIONING OFF, EXCEPT WHERE NOTED.

1. DISCONNECT AND PLUG VACUUM HOSE AT DISTRIBUTOR. SET IGNITION TIMING AT SPECIFIED ENGINE SPEED.
2. DISCONNECT AND PLUG VACUUM HOSE AT EGR VALVE AND CANISTER PURGE HOSE AT CANISTER. ADJUST CARBURETOR SPEED SCREW TO OBTAIN SPECIFIED CURB IDLE SPEED. UNPLUG AND RECONNECT VACUUM HOSE TO DISTRIBUTOR.
3. WITH AIR CONDITIONING; DISCONNECT ELECTRICAL LEAD FROM AIR CONDITIONING COMPRESSOR. WITH AIR CONDITIONING SWITCH ON AND SOLENOID FULLY EXTENDED, ADJUST SOLENOID SCREW TO SPECIFIED RPM. RECONNECT COMPRESSOR LEAD. TURN AIR CONDITIONING SWITCH OFF.
4. UNPLUG AND RECONNECT VACUUM HOSE TO EGR VALVE AND CANISTER PURGE HOSE TO CANISTER.

DN
 305 CU. IN.
 810Y2V
 88CV

VEHICLE EMISSION CONTROL INFORMATION 
 GENERAL MOTORS CORPORATION

SET PARKING BRAKE AND BLOCK DRIVE WHEELS.

MAKE ALL ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE FULL OPEN, AIR CLEANER INSTALLED, AND AIR CONDITIONING OFF, EXCEPT WHERE NOTED.

1. DISCONNECT AND PLUG VACUUM HOSE AT DISTRIBUTOR. SET IGNITION TIMING AT SPECIFIED ENGINE SPEED.
2. DISCONNECT AND PLUG VACUUM HOSE AT EGR VALVE AND CANISTER PURGE HOSE AT CANISTER. ADJUST CARBURETOR SPEED SCREW TO OBTAIN SPECIFIED CURB IDLE SPEED. UNPLUG AND RECONNECT VACUUM HOSE TO DISTRIBUTOR.
3. WITH AIR CONDITIONING; DISCONNECT ELECTRICAL LEAD FROM AIR CONDITIONING COMPRESSOR. WITH AIR CONDITIONING SWITCH ON AND SOLENOID FULLY EXTENDED, ADJUST SOLENOID SCREW TO SPECIFIED RPM. RECONNECT COMPRESSOR LEAD. TURN AIR CONDITIONING SWITCH OFF.
4. UNPLUG AND RECONNECT VACUUM HOSE TO EGR VALVE AND CANISTER PURGE HOSE TO CANISTER.

CATALYST AIR-EGR-EFE LOW ALTITUDE CERTIFICATION	TRANSMISSION
	AUTOMATIC
	TIMING (° BTC @ RPM)
	6° @ 500
	SPARK PLUG GAP (IN.)
0.045	
CURB IDLE SPEED (RPM)	
500 (DR)	
SOLENOID ASM. ADJUSTMENT WITH AIR COND. (RPM)	
700 (DR)	

[NOTE] 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.

SEE SERVICE MANUAL AND MAINTENANCE SCHEDULE I FOR ADDITIONAL INFORMATION.

CATALYST AIR-EGR-EFE LOW ALTITUDE CERTIFICATION	TRANSMISSION
	AUTOMATIC
	TIMING (° BTC @ RPM)
	6° @ 500
	SPARK PLUG GAP (IN.)
0.045	
CURB IDLE SPEED (RPM)	
500 (DR)	
SOLENOID ASM. ADJUSTMENT WITH AIR COND. (RPM)	
650 (DR)	

[NOTE] 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.

SEE SERVICE MANUAL AND MAINTENANCE SCHEDULE I FOR ADDITIONAL INFORMATION.

PT. NO. 472886

THIS VEHICLE CONFORMS TO U.S. EPA AND CALIFORNIA REGULATIONS APPLICABLE TO 1978 MODEL YEAR NEW MOTOR VEHICLES.

PT. NO. 472885

THIS VEHICLE CONFORMS TO U.S. EPA AND CALIFORNIA REGULATIONS APPLICABLE TO 1978 MODEL YEAR NEW MOTOR VEHICLES.