

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-123
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: 860V4S
Engine: 425 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>
860V4S	.29	3.7	1.2

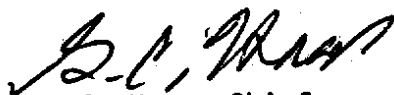
BE IT FURTHER RESOLVED: That the above models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (13 California Administrative Code, Section 2290) for the aforementioned model year, or have been granted a temporary exemption from the aforementioned "Specifications" 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 23 day of August, 1977.



G. C. Hass, Chief
Vehicle Emissions Control Division

Manufacturer GENERAL MOTORS CORPORATION Executive Order No. A-6-123 Page 1

Engine Family 860V4S Engine (CID) 425

ABBREVIATIONS

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

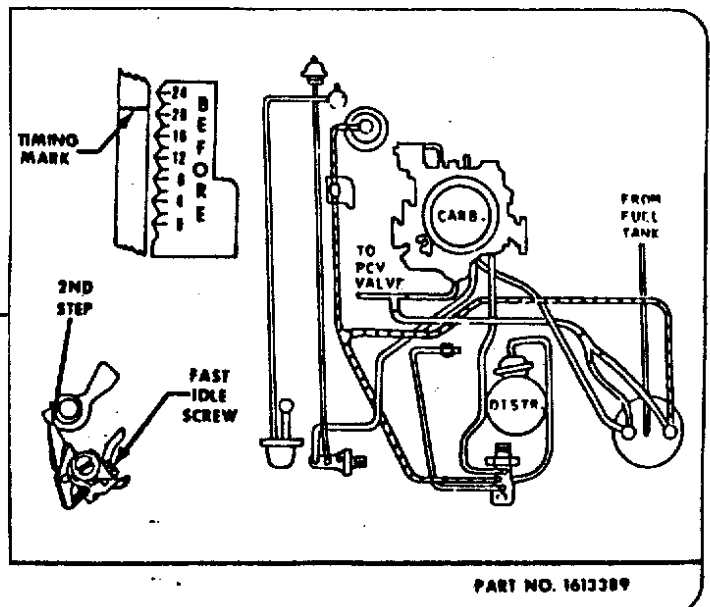
Exhaust Emission Control
 AI-Air Injection
 CAI-Catalyst Air Injection
 EFI-Electronic Fuel Injection
 EGR-Exhaust Gas Recirculation
 EM-Engine Modification
 EFE-Early Fuel Evaporation

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

6 CADILLAC
 C D 47 DeVille Coupe
 D 69 DeVille Sedan
 B 69 Brougham
 D F 23 Limousine
 F 33 Formal Limousine
 E L 47 Eldorado
 Z Z 90 Commercial Chassis

Cont'd. below



KB 860V4S 88FV 425 CU. IN.	VEHICLE EMISSION CONTROL INFORMATION			CATALYST -A.I.R.-E.G.R.-E.F.E. LOW ALTITUDE CERTIFICATION	
	GENERAL MOTORS CORPORATION			TIMING (VEG. D.T.D.C. @ R.P.M.)	21 @ 1600
1. PLACE TRANSMISSION IN PARK AND BLOCK DRIVE WHEELS. 2. DISCONNECT AND PLUG VACUUM LINE TO PARKING BRAKE RELEASE TO PREVENT AUTOMATIC RELEASE OF PARKING BRAKE WHEN SHIFTING TRANSMISSION IN STEP B. 3. SET PARKING BRAKE. 4. WITH ENGINE AT NORMAL OPERATING TEMPERATURE, AIR CLEANER ON, CHOKE OFF AND AIR CONDITIONER OFF, MAKE ENGINE ADJUSTMENTS AS FOLLOWS: 5. DISCONNECT AND PLUG DISTRIBUTOR AND E.G.R. VALVE VACUUM LINES. 6. WITH TRANSMISSION IN "PARK" SET TIMING AT SPECIFIED R.P.M. 7. WITH TRANSMISSION IN "PARK", SET FAST IDLE TO SPECIFIED R.P.M. WITH CAM ON SECOND STEP. 8. RECONNECT DISTRIBUTOR AND E.G.R. VACUUM LINES. PLACE TRANSMISSION IN "DRIVE" AND ADJUST CARBURETOR SCREW TO SPECIFIED R.P.M. NOTE: DO NOT DEPRESS SERVICE BRAKE PEDAL WHILE SETTING IDLE SPEEDS. 9. ON MODELS WITH IDLE SOLENOID, DISCONNECT ELECTRICAL CONNECTOR AT FRONT OF AIR CONDITIONER COMPRESSOR. TURN AIR CONDITIONER TO "AUTO" POSITION. OPEN THROTTLE SLIGHTLY TO EXTEND IDLE SOLENOID. ADJUST IDLE SOLENOID SCREW TO SPECIFIED R.P.M. RECONNECT AIR CONDITIONER COMPRESSOR. 10. RECONNECT PARKING BRAKE RELEASE LINE. SEE SERVICE MANUAL AND MAINTENANCE SCHEDULE I FOR ADDITIONAL INFORMATION.			SPARK PLUG GAP (INCHES)	.060	
			CARBURETOR SCREW (R.P.M.)	600	
			FAST IDLE SCREW (R.P.M.)	1500	
			IDLE SOLENOID SCREW (R.P.M.)	675	
THIS VEHICLE CONFORMS TO U.S. EPA, AND WHERE APPLICABLE CALIFORNIA, REGULATIONS APPLICABLE TO 1978 MODEL YEAR NEW MOTOR VEHICLES.			NOTE IDLE MIXTURE SCREWS ARE PRESET AND CAPPED AT FACTORY. DO NOT REMOVE 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.		

Cont'd. above

21 @ 1600
 .060
 600
 1500
 675

Issued: 081977. 6EL47 & label KP added by RC 86-28, on 082977. D & Z bodies added by RC 86-29, label KP moved to pg.3, on 110777.

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET - GM FORMAT

Passenger Cars

Manufacturer: General Motors Corporation

Executive Order No. A-6-123 Pg. 2

Engine Family 860V4S Engine (CID) 425 Transm. _____

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

Eng. Code	Air Cond.	Distrib. Type HEI C.V Mfgr. Part No.	Fuel System 4V 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	Delco-Remy 1103345	Rochester 17058530	17056272 No Service	4500	6	C		47	A-3	KB 1	
						6	C	D	69			
7		1103352	17058532	17056271	5000	6	D		23		KW 3	B
					5500	6	D		33			B
					5500+	6	Z		90			B
8			17058533		5500	6	E		47		KP 3	A
1a		1103345	17058530	17056272	4500	6	C		47		KX 4	C
						6	C	D	69			C
					5000	6	C	B	69			C
8a		1103352	17058233	17056271	5500	6	E		47		KY 4	D
8b											MA 5	E

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

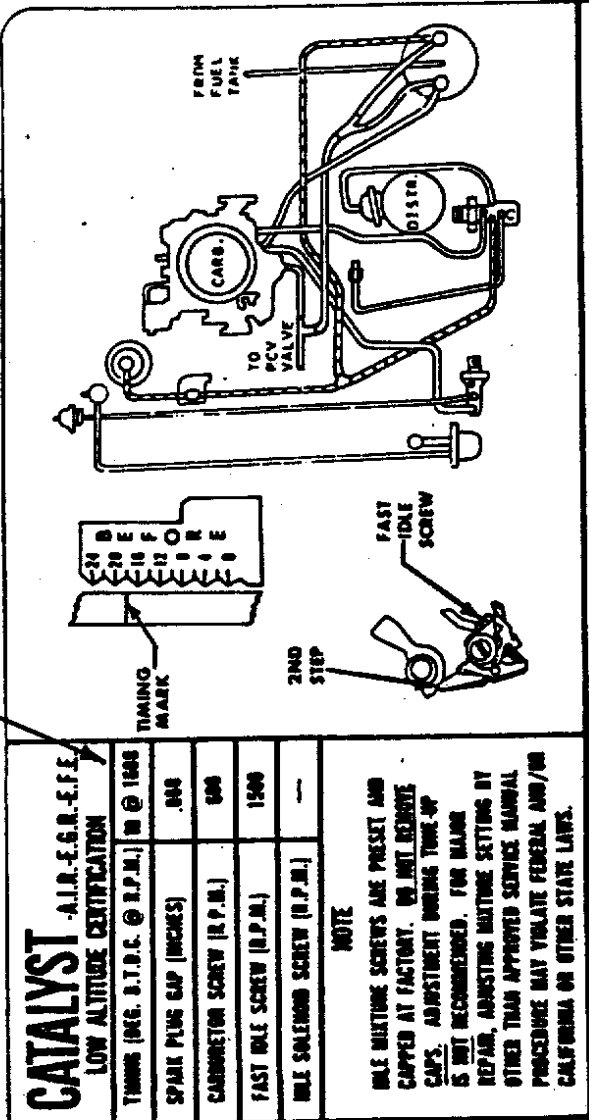
Date of Issue 081977 Revisions: A, EC 8 added by RC 86-28, on 082977. B, EC 7 added by RC 86-29, on 110777. C, EC1a added by RC86-140, on 111077. D, EC 8a added by RC 86-80, on 122077. E, EC 8b, label MA & Pg. 5 added by RC 86-191, on 041078.

Issued: 110777

Manufacturer: General Motors Corporation

Executive Order No. A-6-123 Pg.3

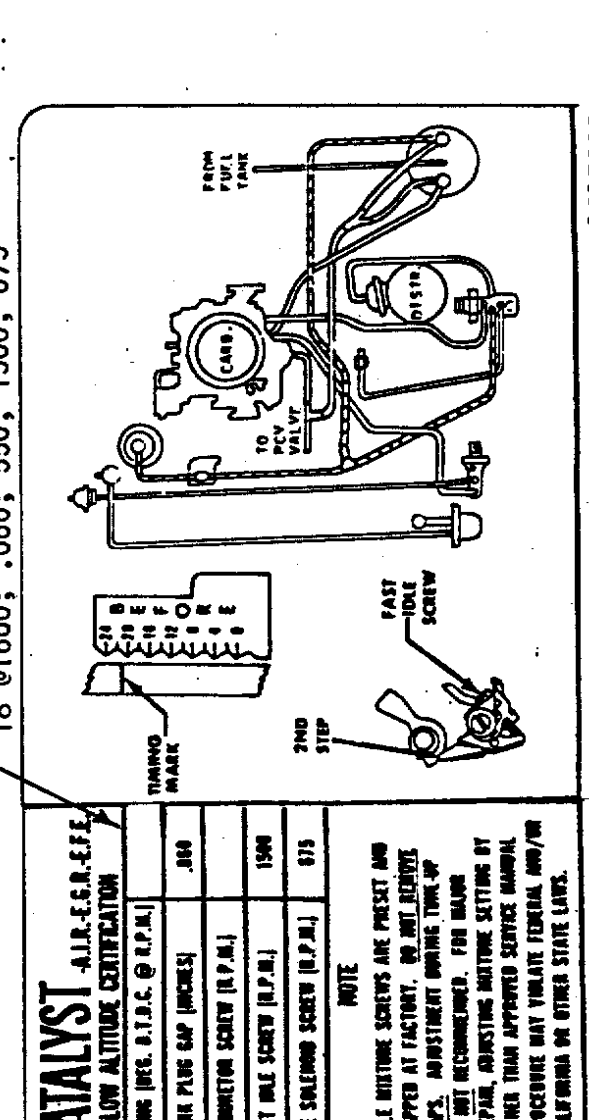
18 @ 1600; .060; 600; 1500.



PART NO. 1613461

VEHICLE EMISSION CONTROL INFORMATION		CATALYST - A.I.R.-E.G.R.-E.F.E. LOW ALTITUDE CERTIFICATION	
KP 860V45 88FV 425 CU. IN.	GM GENERAL MOTORS CORPORATION	TIMING (REG. B.T.D.C. @ R.P.M.) IN @ 1600	.060
		SPARK PLUG GAP (INCHES)	.060
		CARBURETOR SCREW (R.P.M.)	1500
		FAST IDLE SCREW (R.P.M.)	---
NOTE IDLE MIXTURE SCREWS ARE PRESET AND CAPPED AT FACTORY. DO NOT REMOVE 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.			

18 @1600; .060; 550; 1500; 675



PART NO. 1615296

VEHICLE EMISSION CONTROL INFORMATION		CATALYST - A.I.R.-E.G.R.-E.F.E. LOW ALTITUDE CERTIFICATION	
KW 860V45 88FV 425 CU. IN.	GM GENERAL MOTORS CORPORATION	TIMING (REG. B.T.D.C. @ R.P.M.)	.060
		SPARK PLUG GAP (INCHES)	.060
		CARBURETOR SCREW (R.P.M.)	1500
		FAST IDLE SCREW (R.P.M.)	675
NOTE IDLE MIXTURE SCREWS ARE PRESET AND CAPPED AT FACTORY. DO NOT REMOVE 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.
 THIS VEHICLE CONFORMS TO U.S. EPA AND CALIFORNIA REGULATIONS APPLICABLE TO 1978 MODEL YEAR NEW MOTOR VEHICLES.

SEE SERVICE MANUAL AND MAINTENANCE SCHEDULE I FOR ADDITIONAL INFORMATION.
 THIS VEHICLE CONFORMS TO U.S. EPA, AND WHERE APPLICABLE CALIFORNIA, REGULATIONS APPLICABLE TO 1978 MODEL YEAR NEW MOTOR VEHICLES.

Issued: 111077 Manufacturer: General Motors Corporation

Executive Order No. A-6-123 Pg. 4
-190 @1600; .060; 600; 1500; 675

<p>KX 860V45 8BFV 425 CU. IN.</p>	<p>VEHICLE EMISSION CONTROL INFORMATION</p> <p>GENERAL MOTORS CORPORATION</p>	<p>CATALYST -A.I.R.-E.G.R.-E.F.E. LOW ALTITUDE CERTIFICATION</p> <table border="1"> <tr> <td>TIMING (DEC. D.T.C. @ R.P.M.)</td> <td></td> </tr> <tr> <td>SPARK PLUG GAP (INCHES)</td> <td>.008</td> </tr> <tr> <td>CARBURETOR SCREW (R.P.M.)</td> <td>800</td> </tr> <tr> <td>FAST IDLE SCREW (R.P.M.)</td> <td>1500</td> </tr> <tr> <td>IDLE SOLENOID SCREW (R.P.M.)</td> <td>675</td> </tr> </table> <p>NOTE IDLE MIXTURE SCREWS ARE PRESET AND CAPPED AT FACTORY. DO NOT REMOVE 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.</p>	TIMING (DEC. D.T.C. @ R.P.M.)		SPARK PLUG GAP (INCHES)	.008	CARBURETOR SCREW (R.P.M.)	800	FAST IDLE SCREW (R.P.M.)	1500	IDLE SOLENOID SCREW (R.P.M.)	675
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<p>VEHICLE EMISSION CONTROL INFORMATION</p> <p>GENERAL MOTORS CORPORATION</p> <ol style="list-style-type: none"> PLACE TRANSMISSION IN PARK AND BLOCK DRIVE WHEELS. DISCONNECT AND PLUG VACUUM LINE TO PARKING BRAKE RELEASE TO PREVENT AUTOMATIC RELEASE OF PARKING BRAKE WHEN SHIFTING TRANSMISSION IN STEP 8. SET PARKING BRAKE. WITH ENGINE AT NORMAL OPERATING TEMPERATURE, AIR CLEANER ON, CHOKE OFF AND AIR CONDITIONER OFF, MAKE ENGINE ADJUSTMENTS AS FOLLOWS: DISCONNECT AND PLUG DISTRIBUTOR AND E.G.R. VALVE VACUUM LINES. WITH TRANSMISSION IN "PARK", SET TIMING AT SPECIFIED R.P.M. WITH TRANSMISSION IN "PARK", SET FAST IDLE TO SPECIFIED R.P.M. WITH CAM ON SECOND STEP. RECONNECT DISTRIBUTOR AND E.G.R. VACUUM LINES. PLACE TRANSMISSION IN "DRIVE" AND ADJUST CARBURETOR SCREW TO SPECIFIED R.P.M. ON MODELS WITH IDLE SOLENOID, DISCONNECT ELECTRICAL CONNECTOR AT FRONT OF AIR CONDITIONER COMPRESSOR. TURN AIR CONDITIONER TO "AUTO" POSITION. OPEN THROTTLE SLIGHTLY TO EXTEND IDLE SOLENOID. ADJUST IDLE SOLENOID SCREW TO SPECIFIED R.P.M. RECONNECT AIR CONDITIONER COMPRESSOR. RECONNECT PARKING BRAKE RELEASE LINE. <p>SEE SERVICE MANUAL AND MAINTENANCE SCHEDULE I FOR ADDITIONAL INFORMATION.</p> <p>THIS VEHICLE CONFORMS TO U.S. EPA AND OTHER APPLICABLE CALIFORNIA REGULATIONS APPLICABLE TO 1978 MODEL YEAR NEW MOTOR VEHICLES.</p>												

PART NO. 1615307

20° @ 1600; .060; 600; 1500

<p>KY 860V45 8BFV 425 CU. IN.</p>	<p>VEHICLE EMISSION CONTROL INFORMATION</p> <p>GENERAL MOTORS CORPORATION</p>	<p>CATALYST -A.I.R.-E.G.R.-E.F.E. LOW ALTITUDE CERTIFICATION</p> <table border="1"> <tr> <td>TIMING (DEC. D.T.C. @ R.P.M.)</td> <td>@ 1800</td> </tr> <tr> <td>SPARK PLUG GAP (INCHES)</td> <td>.060</td> </tr> <tr> <td>CARBURETOR SCREW (R.P.M.)</td> <td>800</td> </tr> <tr> <td>FAST IDLE SCREW (R.P.M.)</td> <td>1500</td> </tr> <tr> <td>IDLE SOLENOID SCREW (R.P.M.)</td> <td>—</td> </tr> </table> <p>NOTE IDLE MIXTURE SCREWS ARE PRESET AND CAPPED AT FACTORY. DO NOT REMOVE 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.</p>	TIMING (DEC. D.T.C. @ R.P.M.)	@ 1800	SPARK PLUG GAP (INCHES)	.060	CARBURETOR SCREW (R.P.M.)	800	FAST IDLE SCREW (R.P.M.)	1500	IDLE SOLENOID SCREW (R.P.M.)	—
TIMING (DEC. D.T.C. @ R.P.M.)	@ 1800											
SPARK PLUG GAP (INCHES)	.060											
CARBURETOR SCREW (R.P.M.)	800											
FAST IDLE SCREW (R.P.M.)	1500											
IDLE SOLENOID SCREW (R.P.M.)	—											
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PART NO. 1615690

Label KY added by RC 86-80, on 122077.

Issued
041078

Manufacturer: General Motors Corporation Executive Order No. A-6-123 Pg. 5

18° @ 1600; .060; 600; 1500

MA 860V45
8BFV
425 CU. IN.

VEHICLE EMISSION CONTROL INFORMATION
GENERAL MOTORS CORPORATION

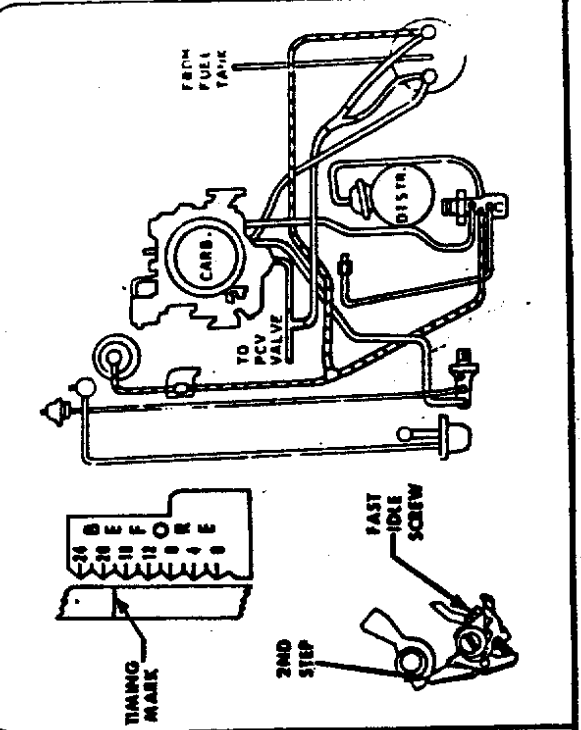
GM

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2. DISCONNECT AND PLUG VACUUM LINE TO PARKING BRAKE RELEASE TO PREVENT AUTOMATIC RELEASE OF PARKING BRAKE WHEN SHIFTING TRANSMISSION IN STEP 8.
3. SET PARKING BRAKE.
4. WITH ENGINE AT NORMAL OPERATING TEMPERATURE, AIR CLEANER ON, CHOKE OFF AND AIR CONDITIONER OFF, MAKE ENGINE ADJUSTMENTS AS FOLLOWS:
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6. WITH TRANSMISSION IN "PARK", SET TIMING AT SPECIFIED R.P.M.
7. WITH TRANSMISSION IN "PARK", SET FAST IDLE TO SPECIFIED R.P.M. WITH CAM ON SECOND STEP.
8. RECONNECT DISTRIBUTOR AND E.S.R. VACUUM LINES. PLACE TRANSMISSION IN "DRIVE" AND ADJUST CARBURETOR SCREW TO SPECIFIED R.P.M.
NOTE: DO NOT DEPRESS SERVICE BRAKE PEDAL WHILE SETTING IDLE SPEEDS.
9. ON MODELS WITH IDLE SOLENOID, DISCONNECT ELECTRICAL CONNECTOR AT FRONT OF AIR CONDITIONER COMPRESSOR. TURN AIR CONDITIONER TO "AUTO" POSITION. OPEN THROTTLE SLIGHTLY TO EXTEND IDLE SOLENOID. ADJUST IDLE SOLENOID SCREW TO SPECIFIED R.P.M. RECONNECT AIR CONDITIONER COMPRESSOR.
10. RECONNECT PARKING BRAKE RELEASE LINE.
SEE SERVICE MANUAL AND MAINTENANCE SCHEDULES FOR ADDITIONAL INFORMATION.

CATALYST -A.I.R.-E.S.R.-E.F.E./
LOW ALTITUDE CERTIFICATION

TIMING (INB. D.T.D.C. @ R.P.M.) @ 1000	1800
SPARK PLUG GAP (INCHES)	.060
CARBURETOR SCREW (R.P.M.)	600
FAST IDLE SCREW (R.P.M.)	1500
IDLE SOLENOID SCREW (R.P.M.)	-

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



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PART NO. 1616499