

E.O.
Book

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-86-9
Relating to Certification of New Motor Vehicles

MITSUBISHI 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 Mitsubishi Motors Corporation exhaust emission control systems for 1978 model-year passenger cars are certified for the vehicles described below:

- Engine Family: 4G5-C
- Engine: 121.75 CID, 155.92 CID
- Transmission: 3-speed automatic, 5-speed manual
- Exhaust Emission Control System: Exhaust Gas Recirculation, Oxidation Catalyst, Combustion Chamber Air Bleed

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>
4G5-C	0.16	4.2	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-86 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 20 day of October, 1977.



G. C. Hass, Chief
Vehicle Emissions Control Division

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Mitsubishi Motors Company Executive Order No. 86-9 Page 1
 Engine Family 4G5-C Engine (CID) 121.75 and 155.92

ABBREVIATIONS

<u>Distributor</u>	<u>Exhaust Emissions Control System</u>	
C-Centrifugal Advance	AI-Air Injection	OC-Oxidation Catalyst
V-Vacuum Advance	CAI-Catalyst Air Injection	PAI-Pulse Air Injection
VR-Vacuum Retard	CAB-Chamber Air Bleed	RC-Reduction Catalyst
HEI-High Energy Ignition	DD-Dual Displacement	TC-Turbo Charged
EI-Electronic Ignition	EFI-Electronic Fuel Injection	TR-Thermal Reactor
<u>Fuel System</u>	EGR-Exhaust Gas Recirculation	TWC-Three Way Catalyst
EFI, FI	EM-Engine Modification	(Feedback Control)
nV-nVenturi Carburetor	EFE-Early Fuel Evaporation	<u>EGR Syst. Service</u>
VV-Variable Venturi	ESAC-Electronic Spark Advance	I-Inspect, repair/replace
	Control	as needed
	FI-Fuel Injection	R-Replace

Models

7H-24	Plymouth Arrow GS
7P-24	Plymouth Arrow GT
2H-29	Dodge Challenger
3H-29	Plymouth Sapporo
6H-45	Dodge Colt 4-door station wagon

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Mitsubishi Motors Company Executive Order No. 86-9 Page 2
 Engine Family 4G5-C Engine (CID) 121.75 and 155.92

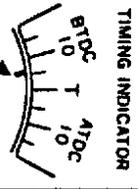
VEHICLE EMISSION CONTROL INFORMATION
 ENGINE FAMILY I.D. : 4G5-C ENGINE CID: 121.75
 EVAPORATIVE FAMILY I.D. : E78-1
 EXHAUST EMISSION CONTROL TYPE: EGR+CAT

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

ENGINE TUNE-UP SPECIFICATIONS AND ADJUSTMENTS

AT NORMAL OPERATING TEMPERATURE WITH LIGHTS AND ACCESSORIES OFF AND TRANSMISSION IN NEUTRAL TUNE-UP SPECIFICATIONS:

TRANSMISSION	MANUAL	AUTOMATIC
BASIC IGNITION TIMING	5° BTDC ± 1° AT CURB IDLE SPEED	7° BTDC ± 1° AT CURB IDLE SPEED
CURB IDLE SPEED	650 ± 50RPM	700 ± 50RPM
MIXTURE	CO: BELOW 0.1% AT TAILPIPE	CO: BELOW 0.1% AT TAILPIPE
ENRICHED IDLE SPEED	730RPM	780RPM
MIXTURE	CO: 1% AT TAILPIPE	CO: 1% AT TAILPIPE



- IDLE SPEED AND IDLE MIXTURE SETTING PROCEDURE:**
1. SET ENGINE SPEED AND IDLE CO TO THE ENRICHED IDLE SPECIFICATIONS BY TURNING IDLE MIXTURE ADJUSTING SCREW AND IDLE SPEED ADJUSTING SCREW
 2. RESET ENGINE SPEED TO NOMINAL CURB IDLE SPEED BY TURNING IDLE MIXTURE ADJUSTING SCREW
 3. WITHOUT ANY MISFIRING, CHECK CURB IDLE SPEED AND CO AGAINST RESPECTIVE SPECIFICATIONS
- IF NOT CORRECT, REPEAT STEPS 1. THROUGH 3.
REFER TO THE SERVICE MANUAL FOR INSTRUCTIONS
- VALVE CLEARANCE IN 0.006in BREAKER POINT GAP 0.018-0.022in
 (ENGINE HOT) EX 0.010in SPARK PLUG GAP 0.039-0.043in
 JET 0.006in

CATALYST

 MITSUBISHI MOTORS CORPORATION
 MDD007443

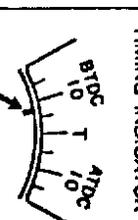
VEHICLE EMISSION CONTROL INFORMATION
 ENGINE FAMILY I.D. : 4G5-C ENGINE CID: 155.92
 EVAPORATIVE FAMILY I.D. : E78-1
 EXHAUST EMISSION CONTROL TYPE: EGR+CAT

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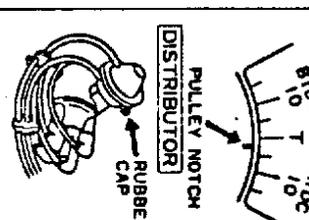
ENGINE TUNE-UP SPECIFICATIONS AND ADJUSTMENTS

AT NORMAL OPERATING TEMPERATURE WITH LIGHTS AND ACCESSORIES OFF AND TRANSMISSION IN NEUTRAL TUNE-UP SPECIFICATIONS:

TRANSMISSION	MANUAL	AUTOMATIC
BASIC IGNITION TIMING	7° BTDC ± 1° AT CURB IDLE SPEED	7° BTDC ± 1° AT CURB IDLE SPEED
ACTUAL	3° ATDC ± 3° AT CURB IDLE SPEED	3° ATDC ± 3° AT CURB IDLE SPEED
CURB IDLE SPEED	700 ± 50RPM	750 ± 50RPM
MIXTURE	CO: BELOW 0.1% AT TAILPIPE	CO: BELOW 0.1% AT TAILPIPE
ENRICHED IDLE SPEED	780RPM	830RPM
MIXTURE	CO: 1% AT TAILPIPE	CO: 1% AT TAILPIPE



- IGNITION TIMING SETTING PROCEDURE:**
1. SET BASIC IGNITION TIMING TO THE SPECIFICATIONS AFTER REMOVING RUBBER CAP FROM DISTRIBUTOR
 2. CHECK ACTUAL IGNITION TIMING AFTER ATTACHING RUBBER CAP TO DISTRIBUTOR
- IDLE SPEED AND IDLE MIXTURE SETTING PROCEDURE:**
1. SET ENGINE SPEED AND IDLE CO TO THE ENRICHED IDLE SPECIFICATIONS BY TURNING IDLE MIXTURE ADJUSTING SCREW AND IDLE SPEED ADJUSTING SCREW
 2. RESET ENGINE SPEED TO NOMINAL CURB IDLE SPEED BY TURNING IDLE MIXTURE ADJUSTING SCREW
 3. WITHOUT ANY MISFIRING, CHECK CURB IDLE SPEED AND CO AGAINST RESPECTIVE SPECIFICATIONS
- IF NOT CORRECT, REPEAT STEPS 1. THROUGH 3.
REFER TO THE SERVICE MANUAL FOR INSTRUCTIONS
- VALVE CLEARANCE IN 0.006in BREAKER POINT GAP 0.018-0.022in
 (ENGINE HOT) EX 0.010in SPARK PLUG GAP 0.039-0.043in
 JET 0.006in



CATALYST

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 MDD007444

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars Light-Duty Trucks Medium Duty Vehicles

Manufacturer Mitsubishi Motors Corp. Executive Order No. 86-9 Page 3

Engine Family 4G5-C Engine (CID) 121.75 and 155.92 Engine Code _____

Emission Control System EGR-OC-CAB +10%(A/C) Yes No

Eng. Code	Vehicle Models (If Coded see attachment)	Trans	Inertia Weight Class	Distributor Type C,V Mfgr. Part Number	Fuel System Type 1-2V Mfgr. Part Number	EGR System Part No. Service	Tune-Up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
4G52 C-M	7H-24 7H-24	M-5	2500	Mitsubishi Electric T3T04581	Mikuni Kogyo 30-32DID TA-70	K5T52771	See page 2 Tune-up Label No. MD007443 and MD007447 *
4G52 C-A		A-3	2750		30-32DID TA-72		
* 4G54 C-M	2H-29 3H-29 6H-45	M-5	3000	T3T04887	30-32DID TA-170	*K5T50771	See page 2 Tune-up Label No. MD007444 and MD007448 *
4G54 C-A		A-3			30-32DID TA-172	*K5T52871	

Comments: No models have special road load HP settings.
See page 1 for abbreviations and model codes.

Date of Issue 10/20/77 Revisions: * corrected 3-3-78