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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-9 Relating to Certification of New Motor Vehicles

ISUZU MOTORS LIMITED

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 Isuzu Motors Limited exhaust emission control systems for 1978 model-year light duty trucks are certified for the vehicles described below:

Engine Family: G180ZL-E

Engine: 110.8 CID

Transmission: 4-speed manual, 3-speed automatic

Exhaust Emission Control Systems: Air Injection, 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:

Engine Family	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	
	Grams per Mile	Grams per Mile	Grams per Mile	
G180ZL~E	0.4	8	1.6	

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-20 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 _____ day of September, 1977.

G. C. Hass, Chief

Vehicle Emissions Control Division

S. C. ILan

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

LUV-2 label revised by RC JPK-079 on 103177.

anufacturer_	Isuzu Motors	<u>Limited Executive Order No. A-20-9</u>	Page	1
Engine Family	G180ZL-E	Engine (CID)110.8	<u>·</u>	

ABBREVIATIONS • Distributor C-Centrifugal Advance V-Vacuum Advance VR-Vacuum Retard HEI-High Energy Ignition EI-Electronic Ignition Fuel System EFI, FI nV-nVenturi Carburetor VV-Variable Venturi

Exhaust Emissions Control System AI-Air Injection CAI-Catalyst Air Injection CAB-Chamber Air Bleed DD-Dual Displacement EFI-Electronic Fuel Injection EGR-Exhaust Gas Recirculation **EM-Engine Modification** EFE-Early Fuel Evaporation ESAC-Electronic Spark Advance Control FI-Fuel Injection

OC-Oxidation Catalyst PAI-Pulse Air Injection RC-Reduction Catalyst TC-Turbo Charged TR-Thermal Reactor TWC-Three Way Catalyst (Feedback Control) EGR Syst. Service I-Inspect, repair/replace as needed R-Replace

CRK-P

G180Z-B G180ZL-E

110.8 CLD. (1.8 LITRE)

900 RPM

IDLE SPEED DROP

6' BTDC AT 900 RPM

52°

0.018 N. (0,45 MM)

0.006 IN. (0.15 MM)

0.010 IN. (0.25 MM)

0.030 IN. (0,75 MM)

LOW ALTITUDE CERTIFICATION



VEHICLE EMISSION CONTROL INFORMATION ISUZU MOTORS LIMITED

ENGINE TUNE-UP CONDITIONS

MAKE ALL ADJUSTMENT AT NORMAL OPERATING TEMPERATURE, CHOKE OPEN, AIR CLEANER INSTALLED,
DISTRIBUTOR AND IDLE COMPENSATOR VACUUM LINES DISCONNECTED AND PLUGGED, ALL ACCESSORIES OFF,
DASHPOT FULLY BOTTOMED IF INSTALLED, AND TRANSMISSION IN NEUTRAL BOTH MANUAL AND AUTOMATIC.
UNPLUG AND RECONNECT BOTH VACUUM LINES WHEN ADJUSTMENTS ARE COMPLETED.

21 PARMIT BLAIR AND SILE MIXTURE SOTTING PROCEDURE (IDLE SPEED DROP)

1. TURN THE DILE MIXTURE ADJUST SCREW ALL THE WAY IN AND BACK OUT 3 TURNS.

2. ADJUST THROTTLE ADJUST SCREW TO 900 RPM.

3. ADJUST SETTING OF IDLE MIXTURE ADJUST SCREW TO ACHIEVE THE MAXIMUM SPEED.

4. RESET THROTTLE ADJUST SCREW TO 900 RPM.

5. TURN DILE MIXTURE ADJUST SCREW TO 900 RPM.

6. RESET DILE MIXTURE ADJUST SCREW TO 900 RPM.

7. RESET DILE MIXTURE ADJUST SCREW TO 900 RPM.

8. IF AIR CONDITIONER IS INSTALLED; TURN AC. ON MAX. COLD AND HIGH BLOWER. OPEN THE THROTTLE
TO APPROX. 1/3 AND ALLOW THE THROTTLE TO CLOSE. (THIS ALLOWS THE SPEED-UP SOLENOID TO REACH
FULL TRAVEL.) ADJUST THE SPEED-UP CONTROLLER ADJUSTING SCREW TO SET IDLE AT 900 RPM.

9. ADDITIONAL PROCEDURE IF DASHPOT IS INSTALLED: MAINTAIN THE ENGINE SPEED BETWEEN 2,400
RPM AND 2,800 RPM. SET THE DASHPOT TO CONTACT THE DASHPOT SHAFT END WITH THE DASHPOT
LEVER, AND THEN FULLY TIGHTEN THE LOCK NUT.

1. SET DILE SPEED TO 900 RPM.

2. CONNECT TIMING LIGHT LEAD TO NUMBER 1 CYLINDER.

3. ALIGN MARK ON CRANKSHAFT PULLEY TO TIMING MARK WITH TIMING LIGHT AIMED TOWARD TIMING MARK.

THIS VEHICLE CONFORMS TO U. S. E"P. A. REGULATIONS APPLICABLE TO 1978 MODEL, YEAR NEW MO

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

PT. NO. 8942119200

LOW ALTITUDE CERTIFICATION



VEHICLE EMISSION CONTROL INFORMATION ISUZU MOTORS LIMITED

ENGINE TUNE-UP CONDITIONS

MAKE ALL ADJUSTMENT AT NORMAL OPERATING TEMPERATURE, CHOKE OPEN, AIR CLEANER INSTALLED,
DISTRIBUTOR AND BLE COMPENSATOR VACUUM LINES DISCONNECTED AND PLUGGED, ALL ACCESSORIES OFF,
AND TRANSMISSION IN NEUTRAL BOTH MANUAL AND AUTOMATIC.

UNPILIG AND RECONNECT BOTH VACUUM LINES WHEN ADJUSTMENTS ARE COMPLETED.

SET PARKING BRAKE AND BLEE HAVE WIRELS.

DLE SPEED AND DLE MIXTURE SETTING PROCEDURE (DLE SPEED DROP)

1. TURN THE DLE MIXTURE ADJUST SCREW ALL THE WAY IN AND BACK OUT 3 TURNS.

2. ADJUST THROTTLE ADJUST SCREW TO 900 RPM.

3. ADJUST SETTING OF DLE MIXTURE ADJUST SCREW TO ACHIEVE THE MAXIMUM SPEED.

4. RESET THROTTLE ADJUST SCREW TO 900 RPM.

5. TURN DLE MIXTURE ADJUST SCREW TO 900 RPM.

6. RESET DLE MIXTURE ADJUST SCREW 1/2 TURN COUNTERCLOCKWISE(RICH).

7. RESET THROTTLE ADJUST SCREW TO 900 RPM.

8. IF AIR CONDITIONER IS INSTALLED: TURN AC. ON MAX. COLD AND HIGH BLOWER. OPEN THE THROTTLE

TO APPROX. 1/3 AND ALLOW THE THROTTLE TO CLOSE. (THIS ALLOWS THE SPEED-UP SOLENOID TO REACH
FULL TRAVEL) ADJUST THE SPEED-UP CONTROLLER ADJUSTING SCREW TO SET DLE AT 900 RPM.

GNITION TIMING SETTING PROCEDURE

IGNITION TIMING SETTING PROCEDURE

1. SET IDLE SPEED TO 900 RPM.

2. CONNECT TIMING LIGHT LEAD TO NUMBER 1 CYLINDER.

3. ALIGN MARK ON CRANKSHAFT PULLEY TO TIMING MARK WITH TIMING LIGHT AIMED TOWARD TIMING MARK.

THIS VEHICLE CONFORMS TO U.S.E.P.A. REGULATIONS APPLICABLE TO 1978 MODEL YEAR NEW MOTOR YEHICLES WHEN COMPLETED AT A MAXIMUM CURB WEIGHT OF 2950 POUNDS AND A MAXIMUM FRONTAL AREA OF 22.8 SQUARE FEET. THIS VEHICLE CONFORMS TO CALIFORNIA REGULATIONS APPLICABLE TO 1978 MODEL YEAR NEW MOTOR VEHICLES WHEN COMPLETED AT A MAXIMUM CURB WEIGHT OF 2950 POUNDS AND A MAXIMUM FRONTAL AREA OF 22.8 SQUARE FEET.

PT. NO. 8942122650

0.010 N. (0.25 MM)

OC, A! AND EGR EXHAUST EMISSION CONTROL

(COLD)

OC. A! AND EGR

EXHAUST EMISSION

CONTROL EVAPORATIVE FAMILY

ENGINE DISPLACEMENT

ENGINE FAMILY

IDLE SPEED

IDLE MIXTURE

IGNITION TIMING

BREAKER POINT GAP

SPARK PLUG GAP

VALVE LASH

(COLD)

DWELL ANGLE

CATALYST

EVAPORATIVE FAMILY CRK-L ENGINE FAMILY G180ZL-E ENGINE DISPLACEMENT 110.8 C.LD. (1.8 LITRE) IDLE SPEED 900 RPM IDLE MIXTURE IDLE SPEED DROP IGNITION TIMING 6' BTDC AT 900 RPM DWELL ANGLE 52 BREAKER POINT GAP 0.018 IN. (0.45 MM) SPARK PLUG GAP 0.030 IN. (0,75 MM) VALVE LASH 0.006 INL (0,15 MM)

SEE SHOP MANUAL FOR ADDITIONAL INFORMATION.

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EXH.

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Man u	facturer ISUZU 1	MOTORS	LIMITED		tive Order No	<u></u>	Page 2 Engine
ngi	ne Family G180	ZL-E		Engine	(CID) 1	10.8	Code
Emis:	sion Control Sy	stem <u>/</u>	AI, EGR,	OC		-10%(A/C)	Yes □ No D3
ng. ode	Vehicle Models (If Coded see attachment)	Trans		Type C,V Mfgr.	Fuel System Type 1-2V Mfgr. Part Number	Part No.	Tune-Up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
E-1	LUV-1 LUV-2,-3	M-4	2750 3000	Nippon Denso Ltd. 8942065420	Hitachi Co. LTD. 8942063560, 8942137300	Parts, MFG Co, LTD.	, -
LE-2		A-3			8942063580, 8942137310		