

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-121-1
Relating to Certification of New Motor Vehicles

SUNDANCE 4 WHEEL DRIVE SYSTEMS

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That Sundance 4 Wheel Drive Systems exhaust emission control systems for 1977 model-year light-duty trucks are certified for the engine family described below:

Engine Family: Isuzu G180ZL-E
Engine: 110.8 CID
Transmission: 4-Speed Manual
Exhaust Emission Control Systems: Exhaust Gas Recirculation,
Oxidation Catalyst, Air Injection

Model: Sundance 4 Wheel Drive

The following are the recommended values to be listed on the window decal required by California Assembly-Line Test Procedures for 1977 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>
Isuzu G180ZL-E	0.4	10	1.6

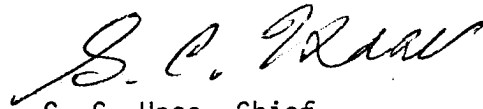
BE IT FURTHER RESOLVED: That this certification is contingent upon Sundance 4 Wheel Drive Systems affixing a permanent catalyst overheat warning label on the driver's sun-visor of all catalyst-equipped vehicles. This label must be approved by the Executive Officer.

BE IT FURTHER RESOLVED: That this certification is also contingent upon Sundance 4 Wheel Drive Systems listing in the owner's manual the operating cautions associated with a catalyst-equipped vehicle. This listing must be approved by the Executive Officer.

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 11 day of April, 1977.



G. C. Hass, Chief
Vehicle Emissions Control Division

Manufacturer Sundance 4 Wheel Drive Executive Order No. A-121-1 Page 1
 Systems _____ Engine _____
 Engine Family G180ZL-E (Isuzu) Engine (CID) 110.8 Code _____
 Emission Control System EGR,OC,AI +10%(A/C) Yes No

Vehicle Models (If Coded see attachment)	Trans	Inertia Weight	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
Sundance 4 Wheel Drive	M-4	3000	Nippon Denso 8942065420	Hitachi Co., LTD 8942063560	Automobile Parts Mfg. Co., LTD. 5161100010 No service	See tune up label (below)

LOW ALTITUDE CERTIFICATION		VEHICLE EMISSION CONTROL INFORMATION		D.C., A.I. AND E.G.R. EXHAUST EMISSION CONTROL	ENGINE	
		ISUZU MOTORS LIMITED			110.8 CU IN. (1.8 LITRE)	G180Z-B
<p><u>ENGINE TUNE-UP CONDITIONS</u> 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. SET PARKING BRAKE AND BLOCK DRIVE WHEELS.</p> <p><u>IDLE SPEED AND IDLE MIXTURE SETTING PROCEDURE (IDLE SPEED DROP)</u> 1. TURN THE IDLE 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 IDLE MIXTURE ADJUST SCREW CLOCKWISE (LEAN) UNTIL ENGINE SPEED IS DOWN TO 850 RPM. 6. RESET IDLE MIXTURE ADJUST SCREW 1/2 TURN COUNTERCLOCKWISE (RICH) FROM ITEM 5 POSITION. 7. RESET THROTTLE ADJUST SCREW TO 900 RPM. 8. IF AIR CONDITIONER IS INSTALLED : TURN A.C. 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 : KEEP THE ENGINE SPEED BETWEEN 2,400 RPM; AND 2,800 RPM, AND TURN THE DASHPOT UNTIL THE END OF THE DASHPOT SHAFT CONTACTS THE DASHPOT LEVER, THEN FULLY TIGHTEN THE LOCK NUT.</p> <p><u>IGNITION TIMING SETTING PROCEDURE</u> 1. SET IDLE SPEED TO 900 RPM. 2. CONNECT TIMING LIGHT LEAD TO NUMBER 1 CYLINDER. 3. ADJUST IGNITION TIMING WITH TIMING LIGHT AIMED TOWARD TIMING MARK. (ALIGN MARK ON CRANKSHAFT PULLEY TO TIMING MARK)</p>				<p>OPEL BY ISUZU LUV</p> <p>IDLE SPEED 900 RPM</p> <p>IDLE MIXTURE IDLE SPEED DROP</p> <p>IGNITION TIMING 6° BTDC AT 900 RPM</p> <p>DWELL ANGLE 52°</p> <p>BREAKER POINT GAP 0.018 IN.</p> <p>SPARK PLUG GAP 0.030 IN.</p> <p>VALVE LASH (COLD) IN. 0.006 IN. EXH. 0.010 IN.</p>		
<p>SEE SHOP MANUAL FOR ADDITIONAL INFORMATION.</p> <p style="text-align: right; font-size: 2em;">CATALYST</p>						
<p>THIS VEHICLE CONFORMS TO U. S. E. P. A. REGULATIONS APPLICABLE TO 1977 MODEL YEAR NEW MOTOR VEHICLES. THIS VEHICLE CONFORMS TO CALIFORNIA REGULATIONS APPLICABLE TO 1977 MODEL YEAR NEW MOTOR VEHICLES.</p>				PT. NO. 8942107940		

Comments

Date of Issue 032977

Abbreviations

Distributor
 C-Centrifugal Advance
 V-Vacuum Advance
 TR-Vacuum Retard
 HEI-High Energy Ignition
 EI-Electronic Ignition
Fuel System
 EFI, FI
 nV-nVenturi Carburetor

Exhaust Emission Control System

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
 FI-Fuel Injection

OC-Oxidation Catalyst
 PAI-Pulse Air Injection
 RC-Reduction Catalyst
 TR-Thermal Reactor
 TWC-Three Way Catalyst
 λ-Air Fuel Ratio Sensor
 *Service
 I-Inspect, repair/replace as needed