## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-259-70 Relating to Certification of New Motor Vehicles

## SUZUKI MOTOR CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1999 model-year Suzuki Motor Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Emission Standard Category: Low-Emission Vehicle (LEV)

<u>Fuel Type</u>: Gasoline

Engine Family: XSKXT1.59LMA Displacement: 1.6 Liters (97 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converter
Warm Up Three Way Catalytic Converter
Heated Oxygen Sensors (two)
Exhaust Gas Recirculation
Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The non-methane organic gases (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) LEV certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle <u>Weight (lbs.)</u>	<u>Miles</u>	NMOG	_CO_	<u>NOx</u>	_ НСНО_	CO (20°F)
0-3750	50,000	0.075	3.4	0.2	0.015	10.0
	100,000	0.090	4.2	0.3	0.018	n/a

Reactivity Adjustment factor (RAF) for NMOG Mass Emission: 0.94

The certification exhaust emission values set forth for NMOG reflect application of a 0.94 RAF for 1999 model-year LEVs. The LEV certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle <u>Weight (lbs.)</u>	<u>Miles</u>	NMOG	<u>CO</u>	<u>N0x</u>	<u>НСНО</u>	CO (20°F)	
0-3750	50,000	0.055	1.8	0.2	0.003	6.7	
	100,000	0.068	2.9	0.2	0.003	n/a	

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this

R. B. Summerfield, Chief

day of July 1998.

Mobile Source Operations Division

## 1999 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Manufacturer: St All Engine Codes Exh Std: Tier 0	JZUKI MOTOR CO in Eng Fam: CA_> Tier 1TLEV	<b>RP</b> (_49S50S LEV_ <b>X</b>	Exh Eng	Fam: XS	KXT1.59LMA ORVR: YE	EVAP Fam: XS SNO_	KXE00892JA X	
All Engine Codes in Eng Fam: CA X 49S 50S ORVR: YES NO X  Exh Std: Tier 0 Tier 1 TLEV LEV X ULEV ZEV; US EPA NLEV Tier 1  EVAP Std: 50K Useful Life with R/L X In Use Exh Std: FULL In Use X								
Veh Class(es): PC_LDT1_X_LDT2_MDV1MDV2MDV3MDV4MDV5								
Single Cert Std fo	r Multi-Class Eng F	am: NA (si	pecify: N/	A. LDT1. LI	DT2.MDV1 MDV		IDVs)	
Fuel Type (S): Dec	dicated X Flex-Fue	el Dual-F	uel Bi	-Fuel G	asoline Y Die	حرامال ۲۰۰۱مال ۲۰۰۱ مما	IDV5)	
C	NG LNG	LPG	M85	Othe	er (specify)	30. <u> </u>		
CNG LNG LPG M85 Other (specify)           Emiss Test Fuel (s): Indo Ph2X _ CNG LPG M85 Other (specify)								
	Diesel: 13CCR 22		40CFR	86.113-90	400	R 86.113-94	· · ·	
<b>EVAP Procedures</b>	: California	Federal	X			11.00.110-34		
Service Accum:	Std AMA	Mod AM	Α	Mfr ADP	X Other (s	inecify)		
NMOG Test Proce	edure : N/A	Std X	Equiv		R/I Test Proc	SHED DIS	Source V	
Hybrid: Type A	ВС	. APU Cv	/cle (e.a. (	—— Otto, Diese	d Turbine)	OHED FLO	2001.C6V_	
Engine configurati	on: <u>L4 (in line</u> ) Di:	splacement:	1.6 Liters	or 97	cubic inches			
Valves per Cylinde	er: <u>4</u>	Ra	ted HP	97	@ 52	OO DDM		
Engine: Front X	Rear	Dri	ve: FWD	RWD	4WD-FT	AWD DT	<b>v</b>	
Exhaust ECS (eg.,	EGR, MFI, TC, CA	C): SFI/	HO2S(2)	/ WU-TWO	TWC/FGR	4VVD-P1_		
(*3.		·-/-	(per SAE	J1930 SE	P95)			
Engine Code	Vehicle Models		ETW	DPA	Ignition	EGR System	Catalytic	
(also list CA/49ST/50ST)	(re: p.21.00)	type		or		Part No.	Converter	
CTLNM	VITARA 2-door		···	RLHP	Part No.		Part No.	
(CA) Chevy.	Tracker 2-door	M5 RWD	2875	12.5	[	~	44450 05000	
CTLNM	VITARA 2-door	1.45 (1.45			33920-66D40	18111-77E00	14150-65D00 14150-80EA0	
	Tracker 2-door	M5 <u>4WD</u>	3000	13.0			14130-00220	
CTLNB	VITARA 2-door	L4 RWD	3000	12.5				
(CA)				12.9	33920-66D50	18111-77E00	14150-65D00	
CTLNB (CA)	VITARA 2-door	L4 <u>4WD</u>	3125	13.0	00020 00000	10111-77200	14150-80EA0	
Revised:	JUN98						-	
Application		<b>.</b> .		_				
Processed by: Date Reviewed By: Date					_ Date			