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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-23-178 Relating to Certification of New Motor Vehicles

HONDA MOTOR CO., LTD.

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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1995 model-year Honda Motor Co., Ltd. exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: SHN2.2VJGKEA <u>Displacement</u>: 2.2 Liters (132 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converter Heated Oxygen Sensor Exhaust Gas Recirculation Sequential Multiport Fuel Injection

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

The certification exhaust emission standards for this engine family in grams per mile are:

<u>Miles</u>	Non-Methane	Carbon	Nitrogen
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>
50,000	0.25	3.4	0.4
100,000	0.31	4.2	n/a

The certification exhaust emission values for this engine family in grams per mile are:

<u>Miles</u>	Non-Methane	Carbon	Nitrogen	
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
50,000	0.09	1.1	0.1	
100,000	0.09		n/a	

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 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, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

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 "Malfunction and Diagnostic System for 1988 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles with Three-Way Catalyst Systems and Feedback Control" (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models have been exempted from compliance with the "Malfunction and Diagnostic System Requirements-1994 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles and Engines" pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(2.0) for the aforementioned model year.

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 non-methane organic gas (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 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 Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

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. ρ

Executed at El Monte, California this d

R. B Summerfield

Assistant Division Chief Mobile Source Division

day of December, 1994.

1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. #	A-2	<u>3</u> -	178
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Manufactu	rer <u>HONDA</u>		E	Exh Engin	e Family:	SHN2.2VJC	KEA
	50K_X Useful Lif						
	Tier-0 Tier-1 <u>X</u>						
	(es): PC <u>X</u> LDT1						
	rt Std for Multi-Cl						
Exh Cert I	Fuel(s): Indo <u>X</u> Ph	2 Die	sel: 1	3 CCR 228	2 or 40 CFR	86.113-90	or -94
						. —	
Fuel Type	(s): Dedicated X					e X Diesel	M85
	CNGLNG					,	
Hybrid: Ty	ype A B C						
	nfiguration: <u>I-4</u> D					Inches	•
	ront X Mid Re				-		-
	CS: TWC/HO2S/EGR/						
Engine Code	Vehicle Models	Trans. Type			Ignition	1 7 7	Catalytic
(also list CA/	(if coded see attachment)	A-automatic	ETW	DPA	(ECM/PCM)	EGR System Part No.	Converter
49ST/50ST)	(2 ood oo dadaniinini)	M-manual		ļ	Part No.	Tare tvo.	Part No.
					EI	EGR Valve:	ХC
07.24					Distributor:	11K	
	Odyssey EX	A	3750	10.1(GY))		
(2021)	dyssey LX				ECM:37820-P1E		

ISSUED: 09/21/94

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1995 MODEL-YEAR CERTIFICATION REVIEW SHEET EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS

Manufacturer: HON	DA	Exh Engine Family: SH	INO OUTCERA
All Eng Codes in Eng Fam: C	A 49S 50S X	K Evap Engine Family: SH	M1150PVV0II
Exh Std: Tier-0 Tier-1	X TLEV LEV	ULEV ZEV; EPA Tie	HOWLEDORAMOR
Evap Std: 50K X Useful Li	fe with R/I	In-Use Fish Chile Fill I V	r-0 Tier-1X
Veh Class(es): PC Y IDT1	IDTO WILL KILL	In-Use Exh Std: Full In Use	X Alt In Use
Single Cert Std for Multi-C	LDIZ MUVI	MDV2 MDV3 MDV4	MDV5
Fyh Cart Fuel(a): Take V Di	.ass Eng ram: <u>N/A</u>	1 GGD GOOD	
M85 C	IC LPC OF	CCR 2282 or 40 CFR 86.113	-90 <u> </u>
Fuel Type(s): Dedicated X	Flex-Fuel Du	al-Fuel Gasoline_X_ D	
CNG LNG	LPG Other	Gasorine X D	reset M85
Hybrid: Type ABC_	. APU Cycle	44-484	
Engine Configuration: I-4 I	Displacement: 2.	2 Liters 132 Cubic Inches	
Valves per Cylinder: 4	Rated HP: 140	a 5600 ppm	
Engine: Front X Mid Re	ear Drive	FWD X RWD 4WD-FT 44	ID 00
Exhaust ECS: TWC/HO2S/EGR/	'eri	4WD-FI 4V	AD-51.
	<u> </u>		
	Sect./Page #		
l Authorized Representative	P.01-2 & -3	20 Can Std Ingmass is	Sect./Page #
2 Fuel Specifications	P.03-1	_ Emiss, Safety, Meets all	
3 Test Equipment	P.04-1	Reqmis	7 1/ 01 00
4 Test Procedure	P.05-1	21 Emission Label Durability	S.16.01.00
5 Mileage Accumulation		22 Driveability Statement	
Route	P.04-1	_ 23 Adjustable Parameters	P.17.05.00-1
6 Emission Warranty		24 Tamper Resistance	Not applicable
Statement	S.17.02.01	Method(s)	D 21 10 00 1
7 Maint: Cert/Req'd/Recm'd	P.06-1	25 Fill Pipe Specifications	P.21.10.00-1
8 Emiss Label/Vac Hose Diag	P.07-1 & -2	26 High Altitude Compliance	P.17.04.02-3
9 Evap Control System	S.21.08.00	27 OBD Sys incl Marked	S.17.06.00
10 Engine Parameters	P.20.01-A95B-1	Revisions	S.21.14.00
ll Fuel System	S.21.13.00	28 I&M Test Procedure & Data	D 17 08-405P-2
12 Ignition System	S.21.04.00	29 50 Degree F Compliance	Not applicable
13 Exhaust Control System	S.21.11.00	30 Manufacturer's RAF	Not applicable
14 Proj Sales	P.17.03.02-18	31 Phase-In Plans:	noc applicable
15 Vehicle Description	P.20.08-A95B-1	Exh Cert Stds	P.17.03.03-1
16 Evap Bench Test Procedure	MAC #81-011	Exh In-Use Stds	P-17-03-04-1
17 EDV Selection	P.20.10-A95B-1	Evap Cert Stds	P.17.03.05-1
10	<u> </u>	32 NMOG Fleet Average	
18 Prod Veh same as Test Veh	P.17.05.00-1	Calculation	P.17.03.03-1
		33 AB965 Credits/Withdrawals	Not applicable
		34 EPA Certificate	Pending
		35 LEV Requirement <u>1</u> /	Not applicable
		-	
		Emission	
10 75-6 12-13 1 - 5	Durability	Data Vehicle	
19 Test Vehicle Information	Data Vehicle	(Exh./Evap.)	
C/O or C/A MY & ID	1995 <u>D95BA1</u>	<u>1995</u> <u>E95BA6</u>	
Vehicle Log Page(s)	P.17.10.00-1	P.17.10.00-1	
Zero Mile Book Page(s) Maint Logs & Engr Eval	Filed at Honda P 17 12 00-1	P.17.11.00-1	
THE TOKE OF LINE LAND	と、11、12、[[]]ー!	P 1 2 00 1	

Note $\underline{1}/:$ Continuity in emission in the temp. range $20{\sim}86\,^{\circ}F$

ISSUED: 09/21/94

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1995 MODEL-YEAR CERTIFICATION REVIEW SHEET EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS

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Manufacturer: HONDA Exh Engine Family: SHN2.2VJGKEA Evap Engine Family: <u>SHN11</u>50BYMOH PROJECTED EMISSIONS (g/mi, except mg/mi for HCHO and g/test for evap.)(1), (2) _TH¢ OMNMHCE Data (3) Code Test TW/ DPA/ MPG \times NMHC <u>Evaporative</u> Hwy City <u>Veh ID</u> (Displ) Loc Trans ETW RLHP City/Hwy NMOG NOx HCHO D+HS R/L <u>CO2</u> E95BA6 SBA3/1 Mfr. L4 3750 10.1 22.3/30.8 (୧୦.୦) 0.1 0.00 393 (50K) (VV01) (132 CID) 0.09 (1) The EDV(s) above comply with standards of (50K): 0.25 3.4 0.4 0.5 N/A 2.0 N/A N/A N/A (100K): 0.31 4.2 <u>N/A N/A N/A N/A N/A N/A N/A</u> and include deterioration factors (DFs) of (50K): 1.018 1.076 1.000 1.000 N/A 0.0 N/A N/A N/A (100K): 1.037 1.158 N/A N/A N/A N/A N/A N/A and a Reactivity Adjustment Factor (RAF) of: NMOG_N/A Methane (CNG or LNG only) N/A TLEV/LEV/ULEV 50°F emissions (w/RAF but w/o DFs): N/A N/A N/A N/A Exempted N/A TLEV/LEV/ULEV 50°F standards: N/A N/A N/A N/A Exempted N/A Diurnal+Hot Soak (D+HS) evaporative DF is the average of: D+HS Vehicle DF -0.05 and D+HS Bench DF -0.25 Running Loss (R/L) evaporative DF is the average of: R/L Vehicle DF N/A and R/L Bench DF N/A (3) List configuration with the highest projected sales first I/M Test Results (We conducted the I/M test based on California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger

Cars, Light-Duty Trucks, and Medium-Duty Vehicles.)

		Idle		Hi-Idle		
		HC(ppm)	CO(%)	HC(ppm)		
E95BA6 (VV 01)	(L4)	5.2	0.01	7.8	0.01	

The emission data vehicle above complies with I/M standards of : 100 1.0 <u> 220</u> 1.2

This engine family also complies with I/M standards at ambient temperature from 35 to 68° F.

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Application

Processed by Joseph Jegede Date 12/8/94 Reviewed by L. Hada

Date/2-9-94