State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-23-73 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 1989 model-year Honda Motor Co., Ltd. exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family		isplacement s (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
KHN2.0V5FPCX	2.0	(119) ,	Oxygen Sensor Exhaust Gas Recirculation Three-Way Catalyst On-Board Diagnostics (Exempted) (Electronic Port Fuel Injection)

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

The following are the emission standards for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)
0.39	7.0	0.4

The following are the certification emission values for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)
0.20	2.4	0.3

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered 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" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards 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 Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Maifunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, Section 1968) for the aforementioned model year.

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 regulations (Title 13, California Administrative Code, 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 ______ da

day of August, 1988.

K. D. Drachand, Chief Mobile Source Division

E.O. # A-23-7

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer	HONDA	Engine Family	KHN2.OV5FPCX
Evaporative Family	89FG	Engine Type	I - 4
•		Liters (CID)	2.0 (119)
ABBREVIATIONS			
Ignition System	Exhaus	t Emissions Control System	Special Features
CA-Centrifugal Advance ECU-Electronic Control to EI-Electronic Ignition ESAC-Electronic Spark Ad Control VA-Vacuum Advance VR-Vacuum Retard	Unit AIV-Air EGR-Ext ivance EIC-EI (D) EM-Eng SPL-Sm Th TOC-Tr TOP-Tr DBC-Du OC-Oxi	r Injection - Pump r Injection - Valve haust Gas Recirculation ectronic Injection Control iesel Only) ine Modification oke Puff Limiter or rottle Delay ap Oxidizer, Continual ap Oxidizer, Periodical al Bed Catalyst dation Catalyst ree-way Catalyst	CFI-Central Fuel Injection or Throttle Body Injection EPFI-Electronic Port Fuel Injection MPFI-Mechanical Port Fuel Injection SFI-Sequential Fuel Injection DID-Diesel Injection DIP-Diesel Injection
Fuel System	WUOC-W WUTWC-	arm-Up Oxidation Catalyst Warm-Up Three-Way Catalyst	Prechamber TC-Turbocharger
CFI, EPFI, MPFI, SFI, DID, DIP, HOS, OS nV-nVenturi Carburetor VV-Variable Venturi Carl	HOS-He	gen Sensor ated Oxygen Sensor	SC-Supercharger IC-Intercooler or Aftercooler CCV-Combustion Chamber Valve OBD-On-Board Diagnostics
VEHICLE MODELS:			

Accord HB LXi
Accord Sedan LXi
Accord 2 Dr Coupe LXi
Accord Sedan SEi

Engine	:	Front	<u> </u>	Mid.	Rear	•
Drive	:	FWD	<u> </u>	RWD	4WD Full Time	4WD Part Time

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ISSUED: 05/31/88

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iter (C	HONDA CID) 2.0 (1) a Control Sys. (Special Control Sys.)	19)		Engine Type	I	- 4	
Engine Code	Vehicle Models (If Coded see attachment) *(Dyno HP)	Trans. Type	Equiv. Test Weight	Ign. System Part No. (Vendor's)	Fuel System Part No. (Vendor's)	EGR Valve Part No. (Vendor's)	Catalyst Part No. (Vendor's
KP1/1	Accord HB LX1 Accord Sedan LX1 Accord 2 Dr Coupe LX1 Accord Sedan SE1 Accord HB LX1 Accord Sedan LX1 Accord 2 Dr Coupe LX1 Accord 2 Dr Coupe LX1	м5	3000	EI, CA & VA Toyo Denso Distributor: 30100-PJ0 -A131 (TD-10N)	ECU	18710-PH3 -0150(10J)	18150-PJC -L011 (HCU

testing. Add 10% to dyno test HP for air conditioning usage.

*: Plea	ase refer to page 08-1.1	in 1989 Application.		
Date of Issued	05/31/88	Revisions:		

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7	AIV	KESOUKCES	LYAU	SUFFLEMENTAL	DATA	SUPET			
							Page	2.3	

2.0 (1	19)		Engine Famil	Ly K	HN2.OV5FPCY			
				-		Gas X Diesel HN2.0V5FPCX		
l Sys. (Spe		Liter (CID) 2.0 (119)						
	cial F	eatures)	OS,	EGR, TWC, (E	PFI)			
e Models ded see hment) HP)	Trans. Type	Equiv. Test Weight		-	Part No.	Catalyst Part No. (Vendor's)		
HB LXi Sedan LXi 2 Dr LXi Sedan SEi 2 Dr SEi	. :	3000	EI, CA & VA Toyo Denso Distributor: 30100-PJ0 -A040 (TD-09N)	EPFI ECU 37820-PJ0 -L022	18710-PH3 -0150(10J)	18150-PJ0 -L011(HCU) 18150-PJ0 -L011(4 or		
HB LXi Sedan LXi C Dr LXi C Dr SEi Sedan SEi	L4	3125	EI, CA & VA Toyo Denso Distributor: 30100-PJ0 -A140 (TD-10N)	(37820-PJ0 -L022)		5XXXXE)		
l i	2 Dr Xi 2 Dr SEi	2 Dr Xi 2 Dr SE1	2 Dr Xi 2 Dr SEi	Sedan LXi 2 Dr Xi 2 Dr EEi	Sedan LXi 2 Dr LXi 2 Dr ESE1 Distributor: 30100-PJ0 -A140 (TD-10N)	Sedan LXi 2 Dr LXi 2 Dr CXi 2 Dr SEi		

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing. Add 10% to dyno test HP for air conditioning usage.

	*:	Please	refer	to	page	08-1.1	in	1989	Appl	ication.			
Date of	Iss	sued	01/	20/	/89		Rev	rision	ns:	06/23/89	(P/N	update)	

1989 HONDA LDV 08-1.1

08.00.00 GENERAL TECHNICAL DESCRIPTION

Road Force and Dynamometer Setting Specifications

•				W/O AC Factor		W/ AC Factor	
Vehicle Model	Tires	Trs.	ETW	CD Time	Test HP	CD Time	Test HP
	10 m / 20 m 10 / m n)				- ·		
Prelude S	185/70HR13(BS)	М5	2875	15.91	7.5	15.07	8.2
	185/70HR13(DL)	М5	2875	15.11	7.5	14.34	8.2
	185/70HR13(BS)	L4	3000	15.91	7.5	15.07	8.2
	185/70HR13(DL)	L4	3000	15.11	7.5	14.34	8.2
Prelude Si	195/60R14 85H	м5	3000	N/A	N/A	13.28	8.2
	195/60R14 85H	L4	3000	N/A	N/A	13.28	8.2
Accord DX	P185/70R13	M5	2875	16.66	6.2	15.82	6.8
	P185/70R13	L4	2875	16.66	6.2	15.82	6.8
Accord LX	P185/70R13	M5	2875	N/A	N/A	16.02	7.7
	P185/70R13	L4	3000	N/A	N/A	16.02	7.7
	105//001/ 051	14 5	2000	27 / 4	27 / 4	11 76	7 (
Accord LXi	195/60R14 85H	М5	3000	N/A	N/A	14.76	7.4
	195/60R14 85H	L4	3000	N/A	N/A	14.76	7.4
Accord SEi	195/60R14 85H	М5	3000	N/A	N/A	14.76	7.4
	195/60R14 85H	L4	3125	N/A	N/A	14.76	7.4
	1737 00114 0311	шт	3123	11/11	11/11	14.70	7.4
Legend Sedan	205/60R15 90H	М5	3500	N/A	N/A	15.01	8.5
J	205/60R15 90H	L4	3625	N/A	N/A	15.01	8.5
	005//01015	14F	2502	27./4	37./4	15.06	~ ~
Legend Coupe	205/60VR15	М5	3500	N/A	N/A	15.96	7.7
	205/60VR15	L4	3625	N/A	N/A	15.96	7.7

Note: CD Time/Test HP determined using coastdown method.

ISSUED: 05/31/88

PLUM/08.00

DURABILITY VEHICLE CARRYOVER SELECTION COMPARISON

	1985 Durability Vehicle (VID: A85AA1)	1989 California Family Durability Vehicle Selection			
Engine Family-Displacement	FHN2.0V5FAF5 -119 CID	KHN2.0V5FPCX -119 CID			
Model	Prelude Si	Accord Sedan LXi			
Exhaust Emission Control System	OS, EIC, EGR, TWC	OS, EIC, EGR, TWC			
Crankcase Emission Control System	PCV	PCV Same volume higher TW-17 precious metal loading			
Catalyst Code	TW-10	TW-17 precious metal			
Transmission	M-5	L-4			
Horsepower/Type	7.8/CD	7.4/CD			
Inertia Weight	2750 lbs.	3000 lbs.			
Equivalent Test Weight	2750 lbs.	3000 lbs.			
Final Drive Ratio	4.07	4.07			
N/V Ratio-rpm/mph	41.8	43.0			
Tire Size	185/70R13 86H	195/60R14 85H			

Based on the criteria specified in U.S.E.P.A. OMS Advisory circular No. 17F, the durability data derived from A85AAl can be carried over to engine family KHN2.0V5FPCX.

ISSUED: 05/31/88 PLUM/Attachment-6