State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-23-71 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		splacement (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
KHN2.0V2FFC7	2.0	(119)	Air Injection - Valve Oxygen Sensor Exhaust Gas Recirculation Three-Way Catalyst On-Board Diagnostics (Exempted)

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	0.7

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

Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0.21	3.1	0.3

BE IT FURTHER RESOLVED: That the listed models are certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall Hability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying to the optional NOx standard by providing evidence that there are sufficient projected sales of vehicles certifying to the

primary NOx emission standard, or is allowed a delay in implementation under small volume manufacturer provisions, or is allowed a delay in implementation under the "in lieu" standards, or is certifying passenger cars weighing more than 5250 lbs. loaded vehicle weight.

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 aitlitude 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.), and with the 2 year/24,000 mile warranty provisions of Health and Safety Code Section 43204.

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 SA

day of August, 1988.

K. D. Drachand, Chief Mobile Source Division

E.O. 1 A-23-7/

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer	HONDA	Engine Family	KHN2.OV2FFC7
Evaporative Family	89FE	Engine Type	I - 4
		Liters (CID)	2.0 (119)
ABBREVIATIONS			
Ignition System		Exhaust Emissions Control System	Special Features
CA-Centrifugal Advance ECU-Electronic Control EI-Electronic Ignition ESAC-Electronic Spark Control VA-Vacuum Advance VR-Vacuum Retard	l Unit n	AIP-Air Injection - Pump AIV-Air Injection - Valve EGR-Exhaust Gas Recirculation EIC-Electronic Injection Control (Diesel Only) EM-Engine Modification SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical DBC-Dual Bed Catalyst OC-Oxidation Catalyst TWC-Three-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- Direct DIP-Diesel Injection-
Fuel System		WUOC-Warm-Up Oxidation Catalyst WUTWC-Warm-Up Three-Way Catalyst	Prechamber TC-Turbocharger
CFI, EPFI, MPFI, SFI, DID, DIP, HOS, OS nV-nVenturi Carbureto: VV-Variable Venturi Carbureto:	r	OS-Oxygen Sensor HOS-Heated Oxygen Sensor	SC-Supercharger IC-Intercooler or Aftercooler CCV-Combustion Chamber Valve OBD-On-Board Diagnostics
VEHICLE MODELS:		·	
Accord HB D	X - Manua	l Transmission	
Accord Seda	n DX - Mai	nual Transmission	
Accord Sedan	n LX - Mai	nual Transmission	
Accord 2 Dr	Coupe DX	- Manual Transmission	

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

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Passenger Cars X Light-Duty Trucks Medium-Duty Vehicles Gas X Diesel								
Manuf	acturer HONI	λ	Engine Far	nily	KHN2.0V2	FFC7		
		(119)			Engine Type I - 4			
Emiss	ion Control Sys. (S	special	Feature	es)	AIV, OS, EG	R, TWC		
Engine Code	Vehicle Models (If Coded see attachment) *(Dyno HP)	Trans. Type	Equiv. Test Weight	Ign. System	Fuel System . Part No.	EGR Valve	Catalyst Part No.	
				(Vendor's)	(Vendor's)	(Vendor's)		
			,					
KF1	Accord HB DX Accord Sedan DX	·		CA, EI & VA	2V Keihin	18710-PH4	18150-PH4	
	Accord 2 Dr Coupe DX			Distributor: 30100-PH4 -6846	Carburetor: 16100-PH4 -6824	-6631 (135000 -2920)	-6660(HAC) 18150-PH4	
		M5	2875	(TD-43K)	(ED07G)		-6670(HAC)	
WE1 /1	Accord HB DX Accord Sedan DX			Hitachi Distributor: 30100-PH4			18150-PH4 -6670(4 or 5XXXXJ)	
KF1/1	Accord Sedan LX			-6835 (D4R84-57)			18150-PH4 -A020(HAC)	
	Accord 2 Dr Coupe DX							
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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.

*: PJ	lease refer to page U	08-1.1 in 1989 Application	•
Date of Issued	05/31/88	Revisions: 02/14/89	06/23/89 (P/N update)

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Passenger Cars	X Light-Duty	Trucks	Medium-Duty Vehic	les	Gas X Diesel
Manufacturer	HONDA		Engine Family		KHN2.0V2FFC7
Liter (CID)	2.0 (119)		Engine Type		I - 4
Emission Contro	ol Sys. (Specia:	l Features)	AIV,	OS, EGR,	TWC

Engine Code	Vehicle Models (If Coded see attachment) *(Dyno HP)	Trans. Type	Equiv. Test Weight	Ign. System Part No.	Fuel System Part No.	EGR Valve	Catalyst
KF3-16 KF3/1-16	Accord HB DX Accord Sedan DX Accord 2 Dr Coupe DX	L4	2875	(Vendor's) CA, EI & VA Toyo Denso Distributor: 30100-PH4 -6747 (TD-42K) Hitachi Distributor: 30100-PH4 -6737 (D4R84-58)	(Vendor's) 2V Keihin Carburetor: 16100-PH4 -6932 (ED40B)	(Vendor's) 18710-PH4 -6631 (135000 -2920)	18150-PH4 -6670(HAC) 18150-PH4 -6660(HAC) 18150-PH4 -6670(4 or 5XXXXJ) 18150-PH4 -A020(HAC)

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.

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Date	of	Issued		02/14	·/8	9	R	evi	sions	s :	06/23/89 (P/N	update)

DURABILITY VEHICLE CARRYOVER SELECTION COMPARISON

	1986 Durability Vehicle (VID: A86EA1)	1989 California Family Durability Vehicle Selection
Engine Family-Displacement	GHN2.0V2FEF2 1/-119 CID	KHN2.0V2FFC7 $\frac{1}{-119}$ CID
Mode1	Accord Sedan LX	Accord Sedan LX
Exhaust Emission Control System	AIV, OS, EGR, TWC	AIV, OS, EGR, TWC
Crankcase Emission Control System	PCV	PCV
Catalyst Code	TW-10	TW-10
Transmission	M-5	M-5
Horsepower/Type	7.6/CD	7.7/CD
Inertia Weight	2750 lbs.	2750 lbs.
Equivalent Test Weight	2750 lbs.	2875 lbs.
Final Drive Ratio	3.87	3.87
N/V Ratio-rpm/mph	39.7	39.7
Tire Size	P185/70R13	P185/70R13

Note

2/ Specifications of the Engine Family determiners specified in 40 CFR 86.085-24(a)(2) are the same between the families GHN2.0V2FEF2 and KHN2.0V2FFC7.

ISSUED: 05/31/88 PLUM/Attachment-4

1989 HONDA LDV 08-1.1

08.00.00 GENERAL TECHNICAL DESCRIPTION

Road Force and Dynamometer Setting Specifications

						W/O AC I	actor	W/ AC Fa	ctor
Vehicle Mod	<u>lel Ti</u>	res		Trs.	ETW	CD Time	Test HP	CD Time	Test HP
Prelude S	10	35/70HR13	(pc)	м5	2875	15.91	7.5	15.07	8.2
rreiude 5									
		35/70HR13		M5	2875	15.11	7.5	14.34	8.2
		5/70HR13	•	L4	3000	15.91	7.5	15.07	8.2
	18	35/70HR13	(DL)	L4	3000	15.11	7.5	14.34	8.2
Prelude Si	10	5/60R14	85H	М5	3000	N/A	N/A	13.28	8.2
riciade bi		5/60R14		L4	3000	N/A	N/A	13.28	8.2
	13	77,001.14	0511	11.4	3000	II/ A	H/ fi	13.20	0.2
Accord DX	Pl	85/70R13	}	М5	2875	16.66	6.2	15.82	6.8
		85/70R13		L4	2875	16.66	6.2	15.82	6.8
Accord LX		85/70R13		M5	2875	N/A	N/A	16.02	7.7
	P1	85/70R13		L4	3000	N/A	N/A	16.02	7.7
Accord LXi	10	5/60R14	85H	м5	3000	N/A	N/A	14.76	7.4
ACCOLG LAI		5/60R14		L4	3000	N/A	N/A	14.76	7.4
	15	3/00814	0.711	774	3000	N/A	и/ д	14.70	7.4
Accord SE1	19	5/60R14	85H	М5	3000	N/A	N/A	14.76	7.4
		5/60R14		L4	3125	N/A	N/A	14.76	7.4
		.,							
Legend Seda	n 20	5/60R15	90H	M5	3500	N/A	N/A	15.01	8.5
	20	5/60R15	90H	L4	3625	N/A	N/A	15.01	8.5
* 1 0	. 20	<i>E </i>		WE	2500	27 / 4	27 / 4	15 06	7 7
Legend Coup		5/60VR15		M5	3500	N/A	N/A	15.96	7.7
	20	5/60VR15		L4	3625	N/A	N/A	15.96	7.7

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

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