(Page 1 of 2)

0 A DUL -

## State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-11-27 Relating to Certification of New Motor Vehicles

#### REGIE NATIONALE des USINES RENAULT

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 Regie Nationale des Usines Renault emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	•	lacement Cubic inches)	Exhaust Emission Control Systems (Special Features)
KRE2.2V5FGA8	2.2	(132)	Exhaust Gas Recirculation Oxygen Sensor Three-Way Catalyst (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 (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0.34	1.6	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 "Malfunction 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

day of March, 1988.

K. D. Drachand, Chief Mobile Source Division

Page 1

# 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Regie Nationale des Usines Renault	Engine Family KRE 2.2 V5 FG A8
Evaporative Family KV-2.2J-1P	Engine Type 14
	Engine Liters (CID) 2.2 (132)
ABBREVIATIONS:	
Ignition System  CA - Centrifugal Advance  ECU - Electronic Control Unit  EI - Electronic Ignition  ESAC - Electronic Spark Advance Control  VA - Vacuum Advance  VR - Vacuum Retard	Exhaust Emissions Control System  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
Fuel System  CFI, EPFI, MPFI, SFI  DID, DIP, HOS, OS  nV - nVenturi Carburetor  VV - Variable Venturi Carburetor	Throttle Delay  TOC - Trap Oxidizer, Continual  TOP - Trap Oxidizer, Periodical  DBC - Dual Bed Catalyst  OC - Oxidation Catalyst  TWC - Three-Way Catalyst  WUOC - Warm-Up Oxidation Catalyst  WUTWC- Warm-Up Three-Way Catalyst  OS - Oxygen Sensor  HOS - Heated Oxygen Sensor
VEHICLE MODELS:  K48A - Medallion Wagon	Special Features  CFI - Central Fuel Injection  EPFI- Electronic Port Fuel Injection  MPFI- Mechanical Port Fuel Injection  SFI - Sequential Fuel Injection
L48A - Medallion Sedan	DID - Diesel Injection-Direct DIP - Diesel Injection-Prechamber TC - Turbocharger SC - Supercharger IC - Intercooler or Aftercooler CCV - Combustion Chamber Valve OBD - On-Board Diagnostics
ENGINE: FRONT X MID REAR	-
DRIVE: FWD X RWD 4WD FULL TIME	4WD PART TIME

E.O.	#	A-	L	1-27
E.U.	Ħ	/\		

Page 2

# 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

	assenger Cars <u>X</u> Li				_		
Mě	anufacturer <u>Regie N</u>	ationa.	re des	Jsines kenault	Ingine rami.	19 KRE 2.2	V5 FG A8
Li	iter (CID) 2.2 (1	32)		Eng	ine Type	I4	
	mission Control Syst Special Features)		+ OS +	TWC (EPFI)			
Engine		Trans	Test	Ign. System/ECU ESAC	EPFI	i I	i 1
Code	Attachment)(Hp)	lype	weight	Part No.	Part No.	Part No.	Part No.
<u>A</u>	L48A	A3	3125	7700 736 396	7700736396		7700732424 7700732034
	K48A	i !	3250_		1 1 1	i i 1	
В	L48A	M5	3000	7700 736 395	7700736395		
	K48A	i ! !	3125_		i ! !	1 ! !	 
С	L48A	A3	3125	7700 742 979	7700742979		
	K48A	Î 	3250_		l 		1 1
_ D	L48A	! !	3125_	7700 741 579	7700741579		
! !	K48A	! !	3250_		t 1 1	 	i i i
E	L48A	M5	3000	7700 741 578	7700741578		
	K48A	1	3125		! !		! ! !
		! !	 		! !		 
1							
Co	omments:						

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.)

(See Page 1 for abbreviations and evaporative emission family identification.

Date of Issue: Revisions	Date	of Issue:		Revisions
--------------------------	------	-----------	--	-----------

E.O. # A - 1/ - 27 Page 3

Engine Family:

KRE 2.2 V5 FG A8

## 1989 VEHICLE MEIGHTS AND ROADLOAD HORSEPOMER FEBRUARY 8, 1988

						TIRES SHOWN Standard tire listed set Optional tires also listed				I ROADLOAD HORSEPONER L COASTDONN TIMES			
VEHICLE	TOTAL MT.	AXLE WT.	TEST WT.	£146	TRANS	SIZE MODEL	PRES		(%)	(BEC.)	C HP.	I NON L (SEC.)	A/C HP.
! !HEDALLION ! ! 4-DOOR ! ! BEDAN !	2729	   1748 	3000	1 1 2.21 1	1 H5	1 185/65R14 VECTOR 1 185/65R14 HXL 1 195/66R14 NCT	29	1 27 1 27	45% 35% 28%	15.67 17.54 15.96	5.4 5.2 5.8	1 16.95 1 18.46 1 16.90	4.7 4.7 5.3
	2819	1 1816	3125	2.2L	A3	185/65R14 VECTOR 185/65R14 MXL 195/66R14 MCT	27	27	45% 35% 20%	16.44 18.21 16.71	5.5 5.6 5.7	17.23 19.21 17.49	5.0 5.1 5.2
IMEDALLION I	2784	1770	3125	2.21	H5	185/45R14 VECTOR 185/45R14 MXL 195/46R14 MCT	27	33	45% 35% 28%	16.22 16.45 15.76	5.1 5.9 6.1	1 14.71 1 17.32 1 14.88	4.8 5.4 5.5
1 1 1	2783	1014	3250	2.2L	A3	185/45R14 VECTOR 185/45R14 PXL 195/46R14 PCT	29	33	45% 35% 20%	16.46   16.83   16.46	5.0 7.3 4.7	17.53 17.76 17.36	5.3 6.7 6.1