State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-61-27 Relating to Certification of New Motor Vehicles

WINNEBAGO INDUSTRIES, INC.

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 Winnebago industries, inc. emission control systems are certified as described below for gasoline-powered medium-duty vehicles:

Engine Family	Displacement <u>Liters (Cubic inches)</u>		Exhaust Emission Control Systems (Special Features)		
KWB2.2T5F9A0	2.2	(132.1)	Exhaust Gas Recirculation Oxygen Sensor Three-Way Catalyst No 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:

Loaded Vehicle Weight(Ibs.)	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
	<u>(Grams per Mile)</u>	(Grams per Mile)	(Grams per Mile)
3751 - 5750	0.50	9.0	1.0

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

Loaded Vehicle Weight(lbs.)	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
	(Grams per Mile)	(Grams per Mile)	(Grams per Mile)
3751 - 5750	0.38	3.6	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 "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 $2i^{87}$

__ day of June, 1988.

K. D. Drachand, Chief Mobile Source Division

Attachment 3 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET E.O. # A-61-27

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Evaporative Family KT	2.2E2P	Engine Type	14
· · ·		Liters (CID) 2	.2 (132.1)
ABBREVIATIONS			
Ignition System	Exhaust Emi	ssions Control Syst	em Special Features
CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard	DBC-Dual Bec EGR-Exhaust EIC-Electron EM-Engine Mo OC-Oxidation OS-Oxygen So HOS-Heated O SPL-Smoke Po Throttle I TOC-Trap Ox TOP-Trap Ox	ection-Valve d Catalyst Gas Recirculation nic Injection Contro odification n Catalyst ensor Oxygen Sensor uff Limiter or Delay idizer, Continual idizer, Periodical	Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EPFI-Electronic Port
_uel System		p Oxidation Catalys	
CFI, CL, DID, DIP, <u>EFI</u> , MFI nV-nVenturi Carburetor	WUIWC-Warm-	Up Three-Way Cataly	or Aftercooler MFI-Mechanical
Vehicle Configuration			Fuel Injection
Winnebago "H"-Body			OBD-On-Board Diagnostics TC-Turbocharger
VEHICLE MODELS: LeSharo, Phasar, Utility Van			

FWD X RWD 4WD Full Time 4WD Part Time

Drive:

Ingine: Front X Mid. ____ Rear ____

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Passenger	Cars Light-	Duty Tru	cks	Medium-Duty Ve	ehicles X	Gas <u>X</u> Di	esel
Manufactur	rer Winnebago	Industri	es, Inc.	Engine Far	mily	KWB2.2T5F9A	0
Liter (CIC	2.2 (132.1)		Eng. 1	Туре	14	
Emission (Control Sys. (Spec	ial Feat	ures)	EGR-EIC-OS-T	WC (EPFI)		
Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	Ign. System (ECU)	Fuel System Part No.		Catalys
A	(Dyno Hp) Winnebago H-Body (22.0)	м5	5500	7700720060	7700715635	7700720061	77007423
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Revisions:

Date of Issue _____