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## State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-61-24 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 1988 model-year Winnebago Industries, Inc. emission control systems are certified as described below for gasoline-powered medium-duty vehicles:

Engine Family	Displacement Liters (Cubic Inches)		Exhaust Emission Control Systems (Special Features)	
JWB2.2T5F9AX	2.2	(132.1)	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:

Loaded Vehicle Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides 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	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides 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 in 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 Ith day of October, 1987.

K. D. Drachand, Chief Mobile Source Division

### Attachment 3

### 19\_88 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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nufacturer Winnebago Indust		
Evaporative Family	Engine Type	14
	Liters (CID) 2.2	(132.1)
ABBREVIATIONS		
Ignition System	Exhaust Emissions Control System	Special Features
CA-Centrifugal Advance  ECU-Electronic Control Unit  LI-Electronic Ignition  ESAC-Electronic Spark Advance  Control  VA-Vacuum Advance  VR-Vacuum Retard	AIP-Air Injection-Pump AIV-Air Injection-Valve DBC-Dual Bed Catalyst EGR-Exhaust Gas Recirculation EIC-Electronic Injection Control EM-Engine Modification OC-Oxidation Catalyst OS-Oxygen Sensor HOS-Heated Oxygen Sensor SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical	CCV-Combustion Chamber Valve CFI-Central Fuel Injection or Throttle Body Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic
CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor  Vehicle Configuration  Winnebago "H"-Body	TWC-Three-Way Catalyst WUOC-Warm-Up Oxidation Catalyst WUTWC-Warm-Up Three-Way Catalyt	Fuel Injection IC-Intercooler or Aftercooler MFI-Mechanical Fuel Injection OBD-On-Board Diagnostics TC-Turbocharger
VEHICLE MODELS:		

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

LeSharo, Phasar, Utility Van

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Passenger Cars Light-Duty Trucks Medium-Duty Vehicles X Gas X Diesel Manufacturer Winnebago Industries, Inc. Engine Family JWB2.2T5F9AX Liter (CID) 2.2 (132.1) Eng. Type 14 Emission Control Sys. (Special Features) EGR-EIC-OS-TWC (EFI) Fuel System EGR Valve Vehicle Models Trans. Equiv. Ign. System Catalys Engine Code (If Coded see Test (ECU) Type attachment) Weight Part No. Part No. Part No. Part No. (Dyno Hp) 7700720060 7700715635 7700720061 77007423: Winnebago H-Body М5 5500 Α (22.0)

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.

Date	of	Issue	 Revisions: