## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-61-28 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. exhaust emission control systems are certified as described below for gasoline-powered medium-duty vehicles:

Engine Family		splacement (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
KWB2.2T5FGX2	2.2	(132.1)	Exhaust Gas Recirculation Three-Way Catalyst Oxygen Sensor (Electronic Port Fuel Injection) 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)		
0.50	9.0	1.0		

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)		
0.41	2.7	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 Code of Regulations, 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 Code of Regulations, 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 Code of Regulations, 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 Code of Regulations, 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 February, 1989.

K. D. Drachand, Chief Mobile Source Division

## 19\_89 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 1

Manufacturer Winnebago Industr	ies, Inc. Engine Family KWE	· · · · · · · · · · · · · · · · · · ·
Evaporative Family KT2.2E2P	Engine Type	14
	Liters (CID)2.2 (1	32.1)
ABBREVIATIONS		
Ignition System	Exhaust Emissions Control System	Special Features
CA-Centrifugal Advance  ECU-Electronic Control Unit  EI-Electronic Ignition  ESAC-Electronic Spark Advance  Control  VA-Vacuum Advance  VR-Vacuum Retard	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	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
Fuel System  CFI, EPFI, MPFI, SFI, DID, DIP, HOS, OS nV-nVenturi Carburetor VV-Variable Venturi Carburetor  Vehicle Configuration  Winnebago "H" Body	TWC-Three-Way Catalyst WUOC-Warm-Up Oxidation Catalyst WUTWC-Warm-Up Three-Way Catalyst OS-Oxygen Sensor HOS-Heated Oxygen Sensor	DIP-Diesel Injection- Prechamber TC-Turbocharger SC-Supercharger IC-Intercooler or Aftercooler CCV-Combustion Chamber Valve OBD-On-Board Diagnostic
VEHICLE MODELS:		·
LeSharo, Phasar, Utility Van		
Engine: Front X Mid.		• • •
Drive: FWD X RWD	4WD Full Time 4WD	Part lime

•	10.89	ATD DEG	 :0UDCES DO	ADD CHOOLEMENT	'AL DATA CUCCT	E.O. # A-6	51-28
• Passenger	Cars Light	-		ARD SUPPLEMENT Medium-Duty V		Page Gas X Di	e <u>2</u> ese l
	rer Winnebago						
	D) 2.2						
	Control Sys. (Spe						
Code (If C atta	Vehicle Models (If Coded see	Type Te	Equiv. Test	Ign. System (ECU)	Fuel System	EGR Valve	Catalys
	attachment) (Dyno Hp)		Weight	Part No.	Part No.	Part No.	Part No.
A	Winnebago H Body (22.0)	A3	5500	7700746427	7700737506	7700730058	770074235
· .							
	·						
Comments:	See page one for	r abbrevi	ations and	evaporative	emission famil	y identifica	ition.
Please re	fer to manufacture . If two test we	er's HP 1	ist for co	orrect dyno te	st HP settings	based on mo	del and
Date of I	ssue		Revisio	ons:			