### State of California AIR RESOURCES BOARD

### EXECUTIVE ORDER A-145 Relating to Certification of New Motor Vehicles

### SANDTANA MINI-MOTORHOMES

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Sections 43100, 43102, 43103, and 43835; 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 Sandtana Mini-Motorhomes exhaust emission control systems for 1978 model-year light-duty trucks are certified for the vehicles described below:

Engine Family:

20R (TC)

133.6

Engine: Transmission:

4-Speed Manual

Exhaust Emission Control Systems: Air Injection, Exhaust Gas Recir-

culation, Oxidation Catalyst

Models and Engine Codes as listed in attachment.

The following are the recommended values to be listed on the window decal required by California Assembly-Line Test Procedures for 1978 model-year vehicles:

Engine Family	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
	Grams per Mile	Grams per Mile	Grams per Mile
20R (TC)	0.2	9	1.6

BE IT FURTHER RESOLVED: That the above models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (13 California Administrative Code, Section 2290) for the aforementioned model year, or have been granted a temporary exemption from the aforementioned "Specifications" by Executive Order AA-145 series.

BE IT FURTHER RESOLVED: That the above models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-powered Motor Vehicles except Motorcycles".

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Department of Motor Vehicles, the California Highway Patrol, and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California, this \_\_\_\_\_ day of February, 1978.

G. C. Hass, Chief

Vehicle Emissions Control Division

# 1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manuracturer Sandtana Mini-	Motor Executive Order No. A-145	Page 1
Engine Family 20R (TC)	Homes Engine (CID) 133.6	
ABBREVIATIONS  Distributor C-Centrifugal Advance V-Vacuum Advance VR-Vacuum Retard HEI-High Energy Ignition EI-Electronic Ignition Fuel System EFI, FI nV-nVenturi Carburetor VV-Variable Venturi	Exhaust Emissions Control System AI-Air Injection CAI-Catalyst Air Injection CAB-Chamber Air Bleed DD-Dual Displacement EFI-Electronic Fuel Injection EGR-Exhaust Gas Recirculation EM-Engine Modification EFE-Early Fuel Evaporation ESAC-Electronic Spark Advance Control FI-Fuel Injection	OC-Oxidation Catalyst PAI-Pulse Air Injection RC-Reduction Catalyst TC-Turbo Charged TR-Thermal Reactor TWC-Three Way Catalyst     (Feedback Control) EGR Syst. Service I-Inspect, repair/replace as needed R-Replace
Engine	Mode1	Transmission
CM-CT	Sandtana	4M

4M

## 1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

	☐ Passen	ger Ca	rs [	Light-Duty	Trucks	Medium Dut	y Vehicles
Manu	facturer Sandt	ana Mi	ni-Motor	Homes Execu	tive Order No	A-145	Page 2
Engi	ne Family 20R	(TC)(	Toyota)	Engine	e (CID) 133	3.6	Engine Code
Emis	sion Control Sy	stem _	AI, EG	R, OC		+10%(A/C)	Yes □ No 図
	Vehicle Models (If Coded see attachment)		Inertia Weight Class	Distributor Type	Fuel System Type	EGR System	Tune-Up Specification
	,				Mfgr. Part Number		(1) Basic Timing (2) Idle Mixture (3) Idle Speed
CMCT	Sandtana	4M	4000	19100-38060	21100-38161	25620= 38121	(1) 8 BTDC @ Idle. (2) Lean drop idle. (3) 800 RPM.
		1					Lean Drop Method
							Set to the following value at best idle 870M, 920A, RPM turn
1							idle mixture adjusting screw until 800M 850A
					=		
Comme See p	ents: <u>Yes</u> page I for abbre				load HP sett	ings. 24 h	i.P.
Date	of Issue 1/23/	78 Rev	isions:				

### STAFF USE ONLY

#### 1978 MODEL-YEAR CERTIFICATION APPLICATION CHECK OFF SHEET

INCOMPLETE OR MODIFIED VEHICLES PASSENGER CARS LIGHT-DUTY TRUCKS MEDIUM-DUTY VEHICLES Manufacturer 52no Primary Vehicle Manufacturer: 1. Application Submitted: 7. Test vehicle required Yes No a. Date Received Fill pipe Specification 8. b. Date ARB Response Compliance 2. Authorized Signature 9. Test Vehicle Data. 3. Vehicle Description 10. Confirm Test Lab. California Sales Warranty Statements 50,000 miles or 5 years 11. Modification to Emission Control Statement that test and production veha. Engine Yes 12. Evaporative Yes icles are identical. Fuel Tanks Yes 13. Evaporative system evaluated: 6. Vehicle Parameters: a. Aux. fuel tanksb. Modifications to O.E.M. a. Frontal area b. Actual R.L. HP 14. E.O. number primary vehicle. A-15 Inertia Weight Curb Weight Exhaust Emission Control System\*\* ALESROC Projected Exhaust Emissions at 50,000 Miles (grams/miles)\*\*\* Inertia Weight Vehicle I.D. Trans. Class Calibration Number CM-ET 10 706 0 \*\*\*Includes a MCCF value of 1000 and D.F. values of 1000 1.000 1.000 \*Numbers in Parenthesis refer to light-duty trucks and medium-duty vehicles except NOx is 2.3 for medium-duty vehicles. Executive Order No. A- 145 Application | San 30, 78 Reviewed by Mule April 1/31 Processed by \*\*Abbreviations Exhaust Emission Control System ESAC - Electronic Spark Advance Control AI - Air Injection CAI - Catalyst Air Injection FI - Fuel Injection 00 - Oxidation Catalyst CAB - Chamber Air Bleed PAI - Pulse Air Injection DD - Dual Displacement - Reduction Catalyst EFE - Early Fuel Evaporation RC EFI - Electronic Fuel Injection TC - Turbocharged

TR

TWC

- Thermal Reactor

- Three Way Catalyst (Feedback Control)

EGR - Exhaust Gas Recirculation

Engine Modifications