

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-138  
Relating to Certification of New Motor Vehicles

DOLPHIN CAMPER COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That Dolphin Camper Company exhaust emission control systems for 1977 model-year light-duty trucks are certified for the engine family described below:

Engine Family: Toyota 20R (TC)  
Engine: 133.6 CID  
Transmission: 4-speed Manual  
Exhaust Emission Control Systems: Air Injection, Exhaust Gas  
Recirculation, Engine Modification,  
Oxidation Catalyst

Model: Dolphin Toyota Mini-Home, Model 185 and 200.

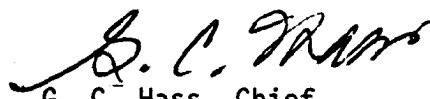
The following are the recommended values to be listed on the window decal required by California Assembly-Line Test Procedures for 197 model-year vehicles:

<u>Engine Family</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
Toyota 20R (TC)	0.5	17	1.3

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 23 day of September, 1977.



G. C. Hass, Chief  
Vehicle Emissions Control Division

Manufacturer Dolphin Camper Company Executive Order No. A-138 Page         
 Engine Family Toyota 20 R(TC) Engine (CID) 133.5 Engine Code         
 Emission Control System AI, EGR, EM OC +10%(A/C) Yes  No

Vehicle Models (If Coded see attachment)	Trans	Inertia Weight	Distributor Type	Fuel System Type	EGR System	Tune-Up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
			Mfgr. Part Number	Mfgr. Part Number	Part No. Service*	
Hilux Cab & Chassis Dolphin Mini-Home	M-4	3500	Nippondenso 19100-38011	Aisan Kogyo 21100-38160	25620-38120  No Service	(1) 8° BTDC @ 800 RPM in neutral; vacuum line remain connected to distributor  (2) Lean Drop idle (see attached sheet)  (3) 800 RPM in neutral

**Comments**

Shift speed (1 to 2) 10 mph, (2 to 3) 20 mph, (3 to 4) 30 mph, (4 to 5) 40 mph,  
 Axle ratio: 4.111

**Date of Issue**

**Abbreviations**

**Distributor**

- C-Centrifugal Advance
  - V-Vacuum Advance
  - R-Vacuum Retard
  - HEI-High Energy Ignition
  - EI-Electronic Ignition
- Fuel System**
- EFI, FI
  - nV-nVenturi Carburetor
  - VV-Variable Venturi

**Exhaust Emission Control System**

- AI-Air Injection
- CAI-Catalyst Air Injection
- 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
  - TR-Thermal Reactor
  - TWC-Three Way Catalyst
  - λ-Air Fuel Ratio Sensor
- \*Service**
- I-Inspect, repair/replace as needed