

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-153
Relating to Certification of New Motor Vehicles

E-Z RYDER INDUSTRIES, INC.

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 E-Z Ryder Industries, Inc. exhaust emission control systems for 1978 model-year light-duty trucks are certified for vehicles described below:

Engine Family: 20R (TC)
Displacement: 133.6 CID
Exhaust Emission Control Systems: Air Injection, Exhaust Gas Recirculation, Oxidation Catalyst

Models, Transmissions 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:

<u>Engine Family</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
20R (TC)	0.2	9	1.7

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" (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-153 series.

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 except Motorcycles".

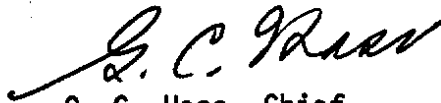
E-Z RYDER INDUSTRIES, INC.

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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 9 day of March, 1978.



G. C. Hass, Chief
Vehicle Emissions Control Division

1978 MODEL-YEAR CERTIFICATION APPLICATION CHECK OFF SHEET

INCOMPLETE OR MODIFIED VEHICLES

PASSENGER CARS

LIGHT-DUTY TRUCKS

MEDIUM-DUTY VEHICLES

Manufacturer EZ Ryder

Primary Vehicle Manufacturer: Toyota

1. Application Submitted:
 - a. Date Received March 4, 78
 - b. Date ARB Response _____
2. Authorized Signature al
3. Vehicle Description al
4. California Sales al
5. Modification to Emission Control System:
 - a. Engine Yes _____ No ✓
 - b. Evaporative Yes _____ No ✓
 - c. Fuel Tanks Yes _____ No ✓
6. Vehicle Parameters:
 - a. Frontal area 38.9 ft.
 - b. Actual R.L. HP 39 x 0.58 = 22.5
 - c. Inertia Weight 4000 lbs.
 - d. Curb Weight 3900 lbs.
7. Test vehicle required Yes _____ No X
8. Fill pipe Specification Compliance Partial 1A50 al
9. Test Vehicle Data. al
10. Confirm Test Lab. 0/2001 al
11. Warranty Statements 50,000 miles or 5 years _____
12. Statement that test and production vehicles are identical. _____ al
13. Evaporative system evaluated:
 - a. Aux. fuel tanks NONE al
 - b. Modifications to O.E.M. none al
14. E.O. number primary vehicle. A-14-18

Engine Family 20R (TC)

Exhaust Emission Control System** A/E6R00
 Projected Exhaust Emissions at 50,000 Miles (grams/miles)***

Engine Size (CID)	Trans.	Inertia Weight Class	Calibration	Vehicle I.D. Number	HC 0.41(0.9)*	CO 9.0(17)*	NO _x 1.5(2.0)*
<u>133.6</u>	<u>M4</u>	<u>4000</u>	<u>CM-CT</u>	<u>107060</u>	<u>0.2</u>	<u>9</u>	<u>1.7</u>

***Includes a MCCF value of 1.000 and D.F. values of 1.000 1.000 1.000.
 *Numbers in Parenthesis refer to light-duty trucks and medium-duty vehicles except NO_x is 2.3 for medium-duty vehicles.

Executive Order No. A- 153

Application Processed by Al Smythe 8/10/78 Date Reviewed by Robert D. Weir 3/9/78 Date

**Abbreviations

Exhaust Emission Control System

- | | |
|---------------------------------|---|
| AI - Air Injection | ESAC - Electronic Spark Advance Control |
| CAI - Catalyst Air Injection | FI - Fuel Injection |
| CAB - Chamber Air Bleed | OC - Oxidation Catalyst |
| DD - Dual Displacement | PAI - Pulse Air Injection |
| EFE - Early Fuel Evaporation | RC - Reduction Catalyst |
| EFI - Electronic Fuel Injection | TC - Turbocharged |
| EGR - Exhaust Gas Recirculation | TR - Thermal Reactor |
| EM - Engine Modifications | TWC - Three Way Catalyst (Feedback Control) |

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1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer E-Z Ryder Industries, Inc. Executive Order No. A-153 Page 1
Engine Family 2QR (TC) 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 Code

Model

Transmission

CM-CT

E-Z Ryder 176RD
176FD
20TRK
20TRD

4M