

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".

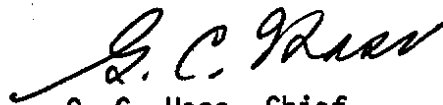
E-Z RYDER INDUSTRIES, INC.

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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
8. Fill pipe Specification Compliance Partial 1A50 al
9. Test Vehicle Data. al
10. Confirm Test Lab. 012001 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)*	NOx 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 MCF 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 NOx is 2.3 for medium-duty vehicles.

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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

<u>Engine Code</u>	<u>Model</u>	<u>Transmission</u>
CM-CT	E-Z Ryder 176RD 176FD 20TRK 20TRD	4M