

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-274-2
Relating to Certification of New Motor Vehicles

ZAVODI CRVENA ZASTAVA

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 1987 model-year Zavodi Crvena Zastava exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

| <u>Engine Family</u> | <u>Displacement Cubic Inches (Liters)</u> | <u>Exhaust Emission Control Systems (Special Features)</u> |
|----------------------|---|--|
| HYA1.3V2GAAO | 67.1/79.3 (1.1/1.3) | Air Injection - Pump Exhaust Gas Recirculation Dual Bed Catalyst |

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

| <u>Hydrocarbons Grams per Mile</u> | <u>Carbon Monoxide Grams per Mile</u> | <u>Nitrogen Oxides Grams per mile</u> |
|--|---|---|
| 0.39 | 7.0 | 0.7 |

The following are the certification emission values for this engine family:

| <u>Hydrocarbons Grams per Mile</u> | <u>Carbon Monoxide Grams per Mile</u> | <u>Nitrogen Oxides Grams per Mile</u> |
|--|---|---|
| 0.38 | 2.5 | 0.6 |

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

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 Administrative Code, 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 1981 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 Administrative Code, Section 1965) 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 Administrative Code, Section 2035 et seq.) and with Health and Safety Code Section 43204.

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 10th day of October, 1986.

Bob Cross for

K. D. Drachand, Chief
Mobile Source Division

Manufacturer Zavodi Crvena Zastava Engine Family HYA1.3V2GAA0
 Evaporative Family C92516C2B31A Engine Type In-Line 4-Cylinder
 Liters (CID) 1.1/1.3 (67.1/79.3)

ABBREVIATIONS

| <u>Ignition System</u> | <u>Exhaust Emissions Control System</u> | <u>Special Features</u> |
|---------------------------------------|--|---------------------------------|
| CA-Centrifugal Advance | AIP-Air Injection-Pump | CCV-Combustion Chamber Valve |
| EEC-Electronic Engine Control | AIV-Air Injection-Valve | CFI-Central Fuel Injection |
| EI-Electronic Ignition | CL-Closed Loop | DID-Diesel Injection-Direct |
| ESAC-Electronic Spark Advance Control | EGR-Exhaust Gas Recirculation | DIP-Diesel Injection-Prechamber |
| VA-Vacuum Advance | EM-Engine Modification | EFI-Electronic Fuel Injection |
| VR-Vacuum Retard | OC-Oxidation Catalyst System | IC-Intercooler or aftercooler |
| | SPL-Smoke Puff Limiter or Throttle Delay | MFI-Mechanical Fuel Injection |
| | TOC-Trap Oxidizer, Continual | TC-Turbocharger |
| | TOP-Trap Oxidizer, Periodical | |
| | TR-Thermal Reactor | |
| | TWC-Three-Way Catalyst System | |

Fuel System

CFI, CL, DID, DIP, EFI, MFI
 nV-nVenturi Carburetor

VEHICLE MODELS:

| <u>Engine Code</u> | <u>Car Line</u> | <u>Transmission</u> |
|--------------------|---------------------------------|---------------------|
| 128A064A2 | Yugo-GV 3-Door Sedan Hatchback | M4 |
| 128A6064A2 | Yugo-GVX 3-Door Sedan Hatchback | M5 |

Engine: Front X Mid. Rear
 Drive: FWD X RWD 4WD Full Time 4WD Part Time

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Passenger Cars X Light-Duty Trucks _____ Medium-Duty Vehicles _____ Gas X Diesel _____

Manufacturer Zavodi Crvena Zastava Engine Family HYA1.3V2GAAO

Liter (CID) 1.1/1.3 (67.1/79.3) Eng. Type In-line 4-cylinder

Emission Control Sys. (Special Features) AIP/EGR/DBC

| Engine Code | Vehicle Models (If Coded see attachment) (Dyno Hp) | Trans. Type | Equiv. Test Weight | Ign. System (ECU) Part No. | Fuel System Part No. | EGR Valve Part No. | Catalyst Part No. |
|-------------|--|-------------|--------------------|--|--|---------------------------|--------------------------|
| 128A064A2 | Yugo-GV 3-Dr Sedan Hatchback (7.0) | M4 | 2,125 | Distributor: BOSCH 0-237-002-113 | Carburetor: WEBER-DFTA Model 740 6Y2M-BBR | CHRYSLER 4287806 | MAREMONT 79113 |
| A6064A2 | Yugo-GVX 3-Dr Sedan Hatchback (7.4) | M5 | | | | CHRYSLER 4287412 | |

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

Date of Issue _____ Revisions:

Manufacturer Zavodi Crvena Zastava Engine Family HYA1.3V2GAAO
 Evaporative Family C92516C2B31A Engine Type Inline, 4-cylinder
 Liters (CID) 1.1 (67.1)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
 ECU-Electronic Control Unit
 EI-Electronic Ignition
 ESAC-Electronic Spark Advance Control
 VA-Vacuum Advance
 VR-Vacuum Retard

Exhaust Emissions Control System

AIP-Air Injection-Pump
 AIV-Air Injection-Valve
 DBC-Dual Bed Catalyst
 EGR-Exhaust Gas Recirculation
 EIC-Electronic Injection Control
 EM-Engine Modification
 OC-Oxidation Catalyst
 OS-Oxygen Sensor
 HOS-Heated Oxygen Sensor
 SPL-Smoke Puff Limiter or Throttle Delay
 TOC-Trap Oxidizer, Continual
 TOP-Trap Oxidizer, Periodical
 TWC-Three-Way Catalyst
 WUOC-Warm-Up Oxidation Catalyst
 WUTWC-Warm-Up Three-Way Catalyt

Special Features

CCV-Combustion Chamber Valve
 CFI-Central Fuel Injection or Throttle Body Injection
 DID-Diesel Injection-Direct
 DIP-Diesel Injection-Prechamber
 EFI-Electronic Fuel Injection
 IC-Intercooler or Aftercooler
 MFI-Mechanical Fuel Injection
 OBD-On-Board Diagnostics
 TC-Turbocharger

Fuel System

CFI, CL, DID, DIP, EFI, MFI
 nV-nVenturi Carburetor

VEHICLE MODELS:

Engine Code

128A064A8

Vehicle Model

Yugo GV 3-Door Sedan Hatchback

Transmission

M4

Engine: Front XX Mid. _____ Rear _____

Drive: FWD XX RWD _____ 4WD Full Time _____ 4WD Part Time _____

Issued: 10/10/86

Revised: 01/26/87(RC#YG87001)

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Passenger Cars XX Light-Duty Trucks _____ Medium-Duty Vehicles _____ Gas XX Diesel _____

Manufacturer Zavodi Ervena Zastava Engine Family HYA1.3V2GAA0

Liter (CID) 1.1 (67.1) Eng. Type Inline, 4-cylinder

Emission Control Sys. (Special Features) DBC/AIP/EGR

| Engine Code | Vehicle Models (If Coded see attachment) (Dyno Hp) | Trans. Type | Equiv. Test Weight | Ign. System (ECU) Part No. | Fuel System Part No. | EGR Valve Part No. | Catalyst Part No. |
|-------------|--|-------------|--------------------|-----------------------------------|----------------------------------|------------------------------------|-----------------------------------|
| 128A064A8 | Yugo GV 3-Door Hatchback (7.8) | M4 | 2,125 | Distributor: Bosch 46623036 | Carburetor: Weber 46622967 | EGR Valve: Chrysler 46622862 | Catalyst: Maremont 46620831 |

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

Date of Issue 10/10/86 Revisions: 01/26/87 (RC# YG87001)