



Description

Educational petrol engine trainer with multi point injection system (MPI) EURO5 MVMPI03-V6 AutoEDU

We design and manufacture automotive training equipment for teaching and training purposes of automotive technology. Please contact us if you are interested in Educational V6 petrol engine trainer with multipoint injection system (MPI) EURO5 MVMPI03-V6 AutoEDU

Description

- Educational petrol engine with multipoint injection system (EURO 5)
- Based on Chrysler/Dodge V6 type engine
- Fully functional system
- Diagnosis through OBD 16 pole diagnostic socket
- Open contacts for measuring system components and circuits.
- Fault code simulations

Technical Specifications and Functions

- The educational functional model with multi petrol injection (MPI) system, instrument cluster, cooling system, power supply system and the exhaust system
- Ability to measure the exhaust gas after the catalytic converter
- Completed with safety removable panels to protect against hot and rotating parts
- Electric wiring diagram with built-in banana plug jumpers for easy and safe measurements, simulation of system fault codes
- Ability to simulate more than 30 faults by disconnecting banana plug jumpers
- The trainer with external components is clearly visible after removing safety panels. Easy access for service and maintenance
- Integrated emergency stop button
- This equipment is specially build for technical and vocational automotive education teaching and training.

The engine is based on USA made Christer/Dodge vehicle V6 type, 3.6 engine which is very popular in USA, Europe and all over the world.

Note: Specifications are subject to change.

Diagnostic and Measurement

Oscilloscope / Multimeter

- System's parameters are measured by connecting to the banana connector
- Ability to measure electrical signal parameters of each system component (such as sensor or actuator)
- Ability to measure high voltage circuit of the ignition system.

Control Unit Diagnosis

- Diagnosis through OBD 16 – pin diagnostic connector
- Electronic control unit (ECU) identification
- Reading/erasing fault codes
- Displaying the operating system parameters (live data)
- Other standard legacy car engine diagnostic and maintenance procedures

Other

- The stand has a closed structure – internal wiring is not visible; Instrument cluster, measurement and fault simulation panel is integrated into a closed aluminum frame construction.
- Dimensions approx. (HxLxW): 1550 x 1000 x 1200 mm
- Nett weight approx.: 360 Kg
- Made in EU
- CE certificate

Auto EDU Chooses the Pentastar V6 to Meet USA Automotive Education Needs

Auto EDU has selected the Pentastar V6 engine due to its popularity and its ability to fulfill the needs of automotive education in the USA. Commonly referred to as the Pentastar V6, this engine has served as a reliable workhorse for Chrysler/Dodge products for over a decade. Positioned as a middle-ground engine, it bridges the gap between economical four-cylinder engines and powerful HEMI V8s.

Versatility and Applications

The versatility of the Pentastar V6 means it has been used in a wide variety of vehicles, ranging from sedans, sports coupes, and crossovers to SUVs, minivans, and pickup trucks. Some of the most notable examples include the Jeep Wrangler, Ram 1500, and Dodge Charger. This extensive application ensures that students training with the Pentastar V6 gain valuable experience relevant to many popular vehicles on the road today.

Variants and Common Usage

Although there are other variants of the Pentastar V6, the 3.6L version is by far the most common in North America. There are also 3.2L and 3.0L versions of the Pentastar engine, with the latter mostly being used outside of North America, primarily in China. The 3.6L engine underwent moderate revisions in 2016, but apart from that, it has remained virtually unchanged since its debut in 2010. This consistency has solidified its reputation as an FCA signature engine.

Pentastar V6 Specifications

The Pentastar V6 is a 60-degree V6 engine featuring a cast aluminum cylinder block and heads. Key specifications include:

- Dual Overhead Cams: With four valves per cylinder, totaling 24 valves.
- Timing Chain: The engine uses a timing chain instead of a belt for enhanced longevity.
- Variable Cam Timing: Added to improve fuel efficiency.
- Oil Specifications: It uses SAE 5W-20 to 5W-30 weight oil with an oil change interval of every year.

Tesca training equipment is a great tool for professional teachers and technicians that helps explain to students of technical subjects how processes in educational petrol engines with V6 multipoint injection system (MPI) MVMP103-V6 Tesca operate and its technology.

By choosing the Pentastar V6, Tesca ensures that students are trained on an engine that is not only widely used but also representative of modern automotive engineering trends. This choice supports the educational needs of Tesca students and prepares them for a successful career in the industry.

Note: Specifications are subject to change.