

## Product Overview

The Petrol Engine with simulator (BT-02A) Trainer is an educational unit designed to demonstrate the construction, operation, and maintenance of a petrol engine. It uses a fully functional Toyota petrol engine mounted on a strong steel frame with wheels for easy movement. The trainer allows students to perform practical activities such as engine disassembly, reassembly, tune-up, and troubleshooting. It also enables measurement of sensor and actuator signals using tools like a multimeter and oscilloscope, helping students

## Technical specification

### Engine Specification

- Engine Type: 4-Cylinder Inline Petrol Engine
- Engine Model: 1NZ-FE
- Engine Displacement: 1497 cc (1.5 L)
- Fuel System: Electronic Fuel Injection (EFI)
- Cooling System: Water Cooled
- Ignition System: Electronic Ignition System
- Maximum Power: Approx. 105–110 HP

### Trainer Construction

- Fully functional petrol engine mounted on a heavy-duty tubular steel frame
- Rotatable stand with lockable castor wheels for easy mobility
- Equipped with flywheel guard and radiator guard for safety
- Minimum 3-liter fuel tank with fuel pump

### Instrumentation Panel

- Ignition key switch
- Oil pressure gauge
- Water temperature gauge
- Diagnostic terminals for measurement

### Measurement & Diagnostic Features

- Possibility to measure electrical signal parameters of sensors and actuators using multimeter and oscilloscope
- Possibility to measure high-voltage circuit of ignition system
- Technical Parameters
- Dimensions (H×L×W): approx. 1800–1900 × 1000–1100 × 500–510 mm
- Weight: approx. 150–160 kg
- Power Supply: AC 220V ±10%, 50/60 Hz

Warranty: 3 years

