

# AUTOMOTIVE ENGINE FAULT DIAGNOSIS SIMULATOR\_ AUTO FAULT

**REFERENCE : Y3102**



*Non contractual photo*

**SERVICE :**

- Engine Simulator Equipment which equipped with fuel, cooling, intake, exhaust and car electricity system so that allows variety of theoretical training and experiments.
- Easy to check and diagnose all faults that can happen in an actual vehicle system so that allows effective education concerning maintenance system.

## Educational Objectives :

- Various practices by self-diagnosis.
- Various practices by Electric-controlled gasoline engine tune-up.
- Measurement and inspection of Auto transmission.
- Measurement and inspection of Hydraulic measurement in accordance with A/T Range.
- Measurement of exhaust, Measurement and inspection of compression pressure of cylinder.
- Measurement of radiator cap pressure and inspection of the leakage from the radiator.
- Operation test of Fuel pump, Measurement and inspection of Oil pressure.
- Measurement and adjustment of tensions of timing chain and fan belt.
- Measurement and adjustment of voltage and current in such as a charging circuits, start circuits.
- Connector checking terminal for inspection of sensors and actuator.
- Inspection of every part of intake and exhaust system.
- Inspection of every part of each automotive electricity, fuel system, ECU, sensors and actuator.
- Inspection of belts in cooling system and pumps

## Technical specifications :

- Composition
1. Electrical Control Gasoline Engine Assembly, Auto Fault
  2. Automatic Transmission Assembly
  3. Electrical and electronic devices such as, ECM, TCM, AFS, CKP, CMP, O<sub>2</sub> Sensor, WTS, Control Relay and etc
  4. Injector, Fuel Filter, Fuel Tank, Fuel Pump, Fuel Equipment, DC 12V/60A Battery for Vehicles, Generator
  5. Ignition coil, Spark Plug, High Voltage Cables etc
  6. Cooling System such as Radiator, Overflow Tank, Relay, Electric Pan
  7. Exhaust System such as Catalytic Converter, Emission, Silencer
  8. Ignition Switch (Key S/W) Anti-vibration dampers and a urethane wheels
  9. Control box, fuel tank (removable), accelerator lever
  10. Stainless molding type safety guard is installed
  11. Radiator-only stand and laser processing protection panel

12. Automatic transmission oil pressure gauge for each singular ?6  
(1.5MPa ?3, 2.5Mpa ?4)
13. Vacuum pressure gauge ?1 (0.1Mpa)
14. Fuel pressure gauge ?1 (1Mpa)
15. Battery voltage gauge ?1 (30V)
16. Drawer type storage space 1ea

- Size : Approx. 1,500 X 1,400 X 1,300 mm
- Weight : Approx. 400 kg