Petrol Engine (EFI)

LTA-274

1. Product overview:

The Petrol Engine Test Bed should be supplied complete with EFI petrol engine and transmission with all components necessary for operation. The test bed should be especially designed for teaching diagnosis, tune up, fault finding and trouble shooting. The engine should be mounted on a strong tubular steel frame, powder coated and come complete with instrumentation and accessories thus the unit should be ready to run. Test bed must have capability to connect to a modular dynamometer system for future upgradeability.

. Technical parameters

- Engine model: Single cylinder air-cooled engine
- Engine Type: 4-stroke 25°single-cylinder with air-cooled
- Starting System: Electric and Recoil
- Fuel Type: Gasoline (Petrol)
- Fuel Tank Capacity: 6.5 Litre
- Fuel Consumption/H: 4 Litre (Depend on the Load)
- Engine Oil Capacity: 1.1 Litre
- Bore*stroke(mm): 92*69
- Displacement(ml): 460
- Compression ratio: 8.5:1
- Max power output(kw/rpm): 12 kw / 3600 rpm
- Recommended power (kw/rpm): 11 kw / 3600 rpm
- HP: 16 HP
- Max torque (N.m/rpm): 32 N.m / 2880 rpm
- Ignition system: Non-contact transistorized ignition (TCI)
- Air cleaner: Semi-dry or oil bath type

Note: The Picture pattern just for references may change

Ignition Control System:

- Training Program to be Performed:
- Electromagnetic sensor
- Hall-effect sensor
- Optoelectronic sensor
- Ignition contact-breaker
- Ignition with distributor
- Static ignition
- Electrical test
- Troubleshooting

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Technical Specifications:

- two-colored schematic diagram with 4 LEDs for locating the various tested components
- **Schematic diagram will emphasize the following principles:**
  - ignition with rotating electromechanical distributor
  - static ignition with lost spark
- Control unit with variable speed should consists of:
  - electric motor
  - wheel of 29 teeth + 1 empty for electromagnetic sensor
  - wheel with phase reference for Hall-effect sensor
  - coded wheel with 4 references for optical sensor
  - cam for enabling the mechanical contact
  - Interconnection and test points - Ø2 mm
- Power Supply Unit:
  - Regulated voltage, electronically protected against short-circuits and overloads
  - Knob facility for selecting desired voltage
  - Output 1: 1.3Vdc ÷ 24Vdc, 1A
  - Output 2: 24Vac - 0 - 24Vac, 0.5A
  - Output 3: +5Vdc - 2A
  - Output 4: +12Vdc - 2A
  - Output 5: -12Vdc - 1A
  - Power source: 220~230V AC, 50Hz, 1 Phase

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