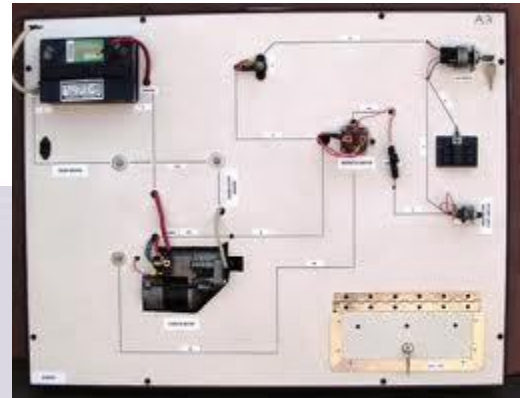


KAM-34
CAR ELECTRIC ACTUATOR TRAINER
System Features

- Compact, comprehensive, sturdy design
- All working Systems can be studied to their operations.
- Basic Trainer instrumentation as optional attachments.
- Fault creation panel for teacher & faultfinding & remedies panel for students
- Slide, Charts, CBT as an optional Accessories

System Description

Car Electric Actuator Trainer Model KAM-34 have the main components of the car electric system fixed together on a board and can be operated on 12V means of a transformer-rectifier unit (220V/12V) System is mounted on M.S. Structure. Separate Teacher panel will have facility of fault creation & student has to study all parameter & find the fault in the system. There is different trouble shooting in the car electric circuit given as below which can solve by using a fault trainer.


Technical Specifications

- Colored schematic diagram with 5 LED for locating the tested components in the vehicle
- Analysis of fuel injector control signal with speed variation from 900~6000rpm and adjustable injection timing from 2ms~12ms
- Exhaust gas recirculation valve with test points for the analysis of the signal for adjusting the valve opening versus the duty cycle varying from 10%~90%
- Simulated common rail injector with test points for the analysis of the adjustments of:
 - pre-injection time from 0.1~0.7ms
 - delay of injection pulse from 0.7~4.5ms
 - injection time form 0.2~1.8ms
 - control frequency between 15Hz and 80Hz (900-4000rpm)
 - injector opening pulse of 70V
- Stepper motor for idle control with 4 test points for the analysis of the signal on each winding.
- Regulation of pilot tone from 5Hz~50Hz; four LESs indicate the bias of windings
- Possibility of reversing the rotation direction and measurement on a milli-metric scale

Fault conditions:

- Accessories like Horn and lightening not working properly.
- The wire connections loose.
- When we put the key in the ignition and go to start the car but the key doesn't turn.
- Cut off and faulty actuator
- Actuator in positive short circuit
- Actuator in short circuit to earth
- Interconnection and test points – Ø 2mm

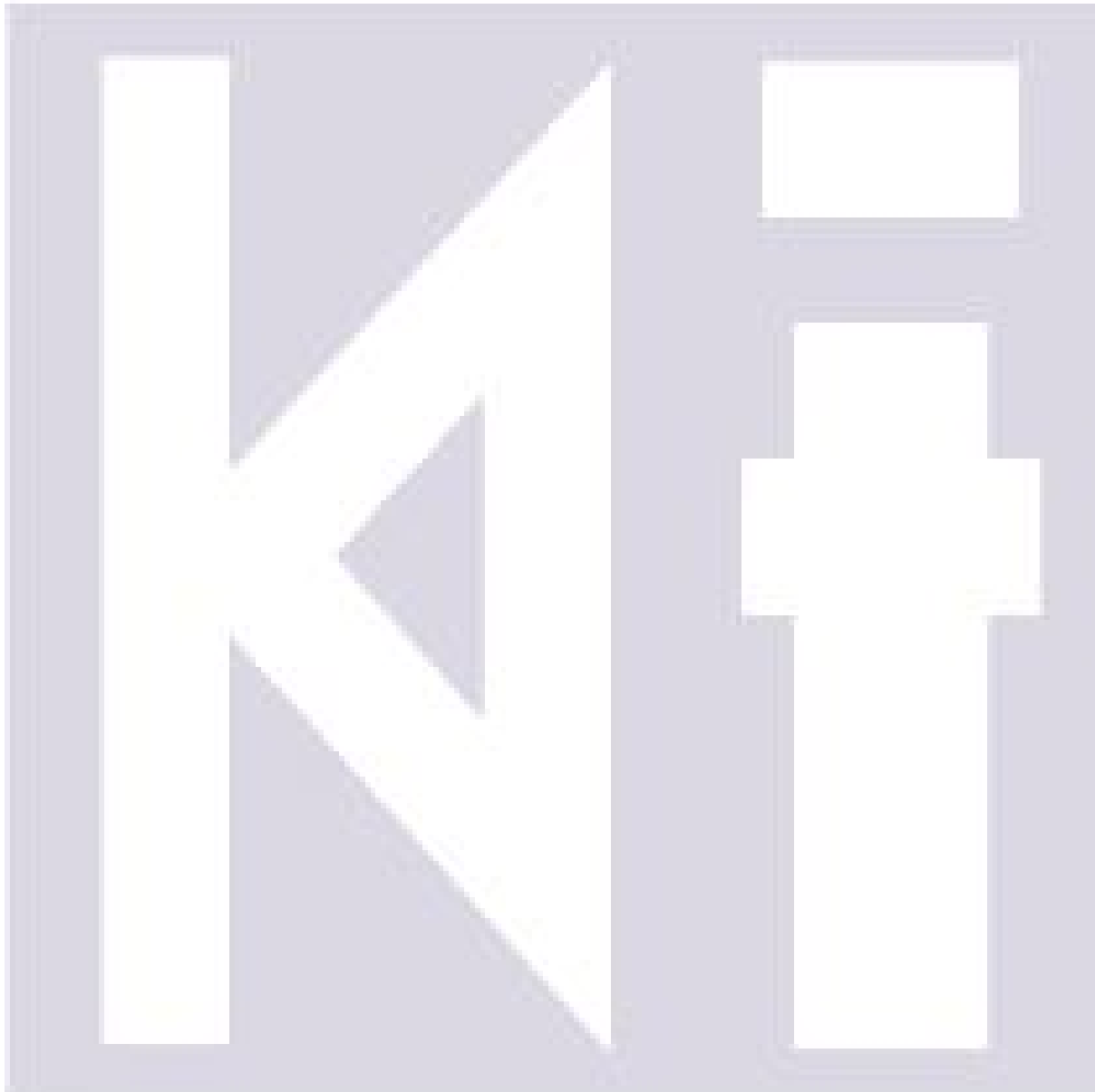
Specifications:

- Starting system – Battery, starting motor, wiring, and switches
- Charging system – Alternator and regulator, with wiring
- Ignition system
- Teacher panel
- Student panel.
- Accessory system – Horns, lighting, instrument panel warning system.

Note : Specification & Photos can be altered without notice in our constant efforts for improvement

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: 24/Vac – 0 – 24Vac, 0.5A
- Output 3: +5Vdc – 2A
- Output 4: +12Vdc – 2A
- Output 5: -12Vdc – 1A
- Input source: 220~230V AC, 50Hz, 1 Phase



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