



Electron S.R.L.

Design
Production &
Trading of
Educational
Equipment

A21-M500 – MOTOR VEHICLE ELECTRICITY AND ELECTRONICS



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Some modules of A21-M500 trainer

The trainer deals with the wide range of electric and electronic applications in modern motor vehicles.

The aim is to provide a handy means to let the student examine the various electric vehicle components and to train in the practical setting up, testing and trouble shooting automotive electric circuit sections.

The trainer consists of a collection of modules of rugged construction. For an orderly approach the modules are organized in a BASIC KIT, which includes classic items whose adoption is recommended in all cases and a series of EXPANSION KITS, to best fulfill all teaching requirements:

1. BASIC KIT:

Module Name	Code	Qty
Power Supply	M500-PS	1
Battery Connector and fuse panel	M500-A	1
Ignition and Start Switch	M500-B	1
Dashboard lights and switches	M500-C	1
Starter Simulator	M500-D	1
Reverse and registration plate lights	M510-A	1
Interior lights	M510-C	1
Door contacts	M510-D	1
Headlamp and front flasher (Right)	M510-E	1
Headlamp and front flasher (Left)	M510-F	1
Steering Column Switch	M510-G	1
Tail Lights (Right)	M510-H	1
Tail Lights (Left)	M510-I	1
Trailer socket	M511-A	1
Trailer plug	M511-B	1

Bulb monitoring system	M517-A	1
Relays	M520-C	1
Additional lighting (Front fog lamp)	M520-D	2
Standard Horn	M530-B	1
Flasher Control	M530-D	1
Windscreen wiper, washer and int. relay	M540-A	1
Connection Cables Kit		1
Equipment Frame		2
Automotive Multimeter		1

2. EXPANSION KITS:

Respectively to cover:

A - CONTACT TYPE (TRADITIONAL) IGNITION SYSTEM

Includes an Ignition Distributor ganged to a variable-speed motor with drive. One Ignition coil, 4 spark plugs and HV cabling system are also included. Provisions are made to experiment the ignition phase angle setting

B - ELECTRONIC IGNITION SYSTEM

This kit is additional or alternative to Kit A above. It includes Ignition Distributor with drive motor and drive electronics, Electronic Switch unit, 4 spark plugs with HV cabling

C1 - ALTERNATOR

Includes a 400W alternator ganged to a variable speed motor with drive electronics. The Alternator Regulator and Rectifiers are included.

Provision of a battery is required with this Kit (provided as an option)

C2 - START MOTOR

D - ON-BOARD MICROCOMPUTER CONTROLLER

E - ELECTRONIC ACCESSORIES: Car Radio, Anti Burglar System, Central Locking, GPS navigator.

ORDERING CODES:

A21- M5 BASIC KIT

A21- M5 EXPANSION KITS A, B, C1, C2, D, E