



PRESENTATION:

The MT-C5000 is a training aid aimed to study and understand an automotive regulated air conditioning system.

Autonomous aluminium frame with several simulation and visualisation boards:

- a temperature regulation board (vehicle's control panel, visualisation of the airbox),
- an air conditioning ECU board,
- a power simulation board (compressor, fan, cooling management system).

Access to the back so as to simulate breakdown situations and connect a PSA diagnosis tool.

OBJECTIVES:

- Discover the whole cold production system.
- Observe, analyse and understand how all components of the air conditioning system operate.
- Read and understand diagrams.
- Measure the signals both in and out of the different components.
- Simulating breakdown in order to study suitable diagnosis methods.

CONCERNED TYPES

BEP M.A.
BACPRO M.V.A.
BAC STI – Option motorized systems.
BTS M.A.V.A.

PRACTICAL AND CORRECTED PROJECTS

Resource book to instruct and learn about how the MT-C5000 training simulator operates.

FEATURES:

The real elements are:

The air conditioning ECU from a 406 Peugeot,
The engines step by step that manage mixing and distribution of air.
The key ignition switch and the diagnosis socket IPC30,

The elements assembled by Exxotest:

An aluminium frame with a 230V cable to be plugged into the power supply and a stabilised power supply for the automotive 12V section.

A temperature regulating board:

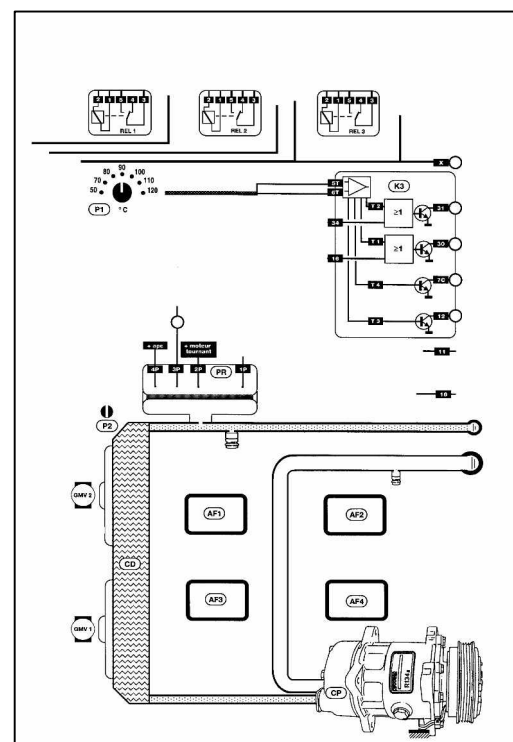
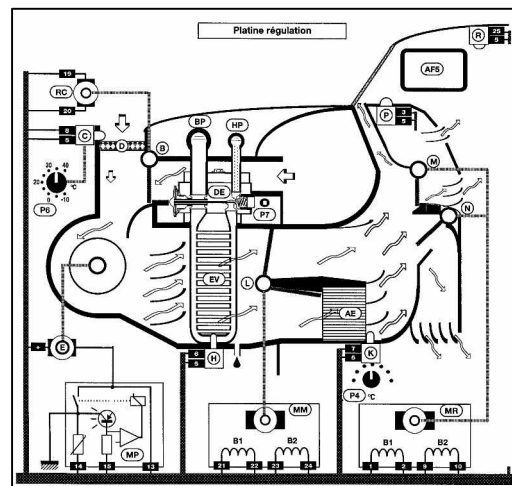
- Passenger compartment control desk,
- Airbox diagram with visualisation of air flows and their temperatures.
- Position of the different engines and sensors around the airbox (solar sensor, external and internal air temperature, coolant temperature, ventilation pulsator, engine mixing and distribution engine, ...)
- 3-position regulator, standard, too much or not enough cold.

An air conditioning ECU board:



- Air conditioning ECU diagram (ways in / out, logic control of the compressor),
- Diagram of one part of the injection ECU (air conditioning authorisation),
- Start-up and ignition key,
- Potentiometers for adjusting the vehicle speed and engine speed,

A power simulation board:

- Diagram of the engine cooling control box with its 3 control relays as well as the potentiometer to regulate the engine's water temperature.
- Diagram of the two-level pressure valve,
- Diagram of the compressor, condenser, dehydrator filter of the air conditioning circuit,
- Visualisation of the temperature and low and high pressures regarding the filling valves,
- Potentiometer to adjust the circuit's charge,



Access to the back so as to simulate a breakdown situation on the 3 relays controlling the speed of the fans as well as the possibility of breakdown in all the ways in / out of the fuse air conditioning ECU.

References	Functions	Connection	Accessories
 MT-C5000	Training simulator to study the automotive regulated air conditioning circuit	230V power supply	Instruction booklet Training notebook
 MT-TABLE	Optional desk on castor wheels for the MT-C5000 panel	None	Table to be assembled

Find all EXXOTEST products on the Internet at: www.exxotest.com

This material is EC certified. It is supplied with a certificate of verification and a declaration of conformity.

GUARANTEE: 2 years parts and labour

ANNECY ELECTRONIQUE

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