












Phase 12: Electric System installation

Some of the necessary parts required to assemble the Cooling System and its installation to the airframe are easily identified when unpacking from the shipping crate. Small parts are in cardboard box 5 and 15 and the bolts, nuts and washers are shrink wrapped in box 18.

Parts and other components

| PARTS | DESCRIPTION | CODE | QTY. | PACK |
|---|-------------------------------|-----------------|------|------|
|  | Main Wiring Loom | CH7T_16.001.0.0 | 1 | 5 |
|  | Consol Wiring Loom | CH7T_16.002.0.0 | 1 | 5 |
|  | Battery Wiring Loom | CH7T_16.003.0.0 | 1 | 5 |
|  | Servo Motor Wiring Loom | CH7T_16.008.0.0 | 1 | 5 |
|  | Rectifier Regulator Capacitor | CH7T_16.009.0.0 | 1 | 5 |
|  | Electric Fuel Pump Capacitor | CH7T_16.010.0.0 | 2 | 5 |
|  | Diode Box | CH6B_16.004.0.0 | 1 | 5 |
|  | Fuse Case | CH7T_16.006.0.0 | 1 | 5 |
|  | Test Button | 4E000H012 | 1 | 5 |
|  | Relay | 4E000R904 | 2 | 5 |
|  | Dash light | 4E0017-210 | 1 | 5 |

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| | | | | |
|---|------------------------------|------------|---|---|
|  | Dash light | 4E0017-211 | 2 | 5 |
|  | Dash light | 4E0017-212 | 3 | 5 |
|  | Dash light (Led Governor) | 4E0017-410 | 1 | 5 |
|  | Dash light | 4E0017-410 | 2 | 5 |
|  | Dash light | 4E0017-411 | 1 | 5 |
|  | Dash light (Led Governor) | 4E0017-411 | 1 | 5 |
|  | Ignition switch | 4E00A5102 | 1 | 5 |
|  | Toggle switch | 4E3505822 | 3 | 5 |
|  | Bipolar Toggle switch | | 3 | 5 |
|  | Circuit Breaker Klixon 3 AMP | K7274-2-3 | 1 | 5 |
|  | Circuit Breaker Klixon 5 AMP | K7274-2-5 | 3 | 5 |

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| | | | | |
|---|-------------------------------|-----------------|---|---|
|  | Circuit Breaker Klixon 10 AMP | K7274-2-10 | 1 | 5 |
|  | Circuit Breaker Klixon 15 AMP | K7274-2-15 | 1 | 5 |
|  | Circuit Breaker Klixon 20 AMP | K7274-2-20 | 2 | 5 |
|  | Connector/ Terminal | CH7T_16.011.0.0 | 2 | 5 |
|  | Terminal 4 mm | CH7T_16.012.0.0 | 2 | 5 |
|  | Terminal 5 mm | CH7T_16.014.0.0 | 1 | 5 |

TOTAL PHASE 12 PARTS: 43

Necessary tools

- Clamp
- pliers
- Crimping tool

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Assembly order

Step 1- Installation of the electric system

NOTE

Use the drawings and also the electric schematic included in the end of this phase for the installation of the electric system

The PDF version can be enlarge on a computer for extra clarity.

The system consists of a number of wiring looms provided by CICARÉ.

The Cicare electrical drawings identify each wire in the loom by a plastic fitting on the wire which has the number permanently marked on it corresponding to its location in the schematic drawing.

Select the main (Largest) loom and start by fixing the set of cables from the part marked as Start onto the Airframe over the anchor of Left Rear Cross Tube.

The following images show how the looms are routed and fixed to the airframe with Zip ties.



Fig. 1



Fig. 2

Phase 12: Electric System installation



Fig. 3

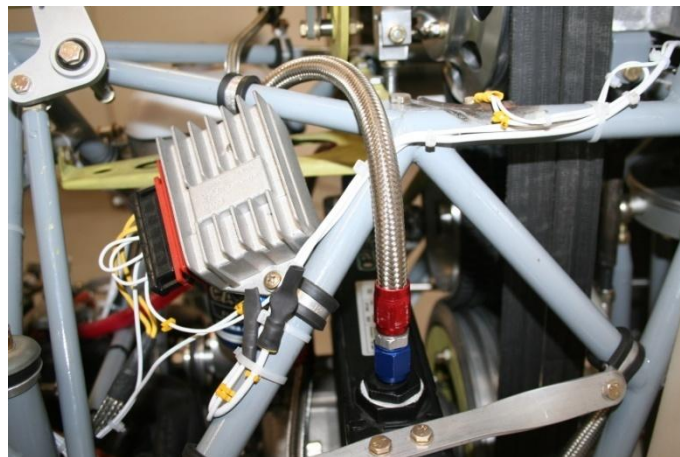


Fig. 4



Fig. 5

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Fig. 6



Fig. 7

Step 2- Battery installation

Install the battery on the battery support and fix it using the metal strap designed for this purpose, as shown in the following image:

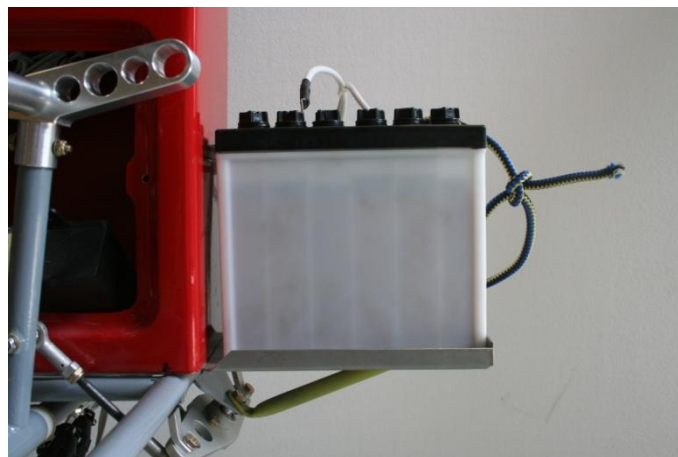


Fig. 8

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NOTE

The battery is finally installed in the end of phase 7 corresponding to the cabin installation. Previously in phase 3 installation of the TR, the battery support is partially installed with Pedals Rocker-Arm.

Step 3- Fabrication and installation of circuit breaker plate

To fabricate the circuit breaker plate prepare the inside left lower part of the cabin to fit the plate. This aluminum plate will be linked to the cabin.

The holes in the plate will house the Circuit Breakers. Besides holding the circuit breakers, the plate will also be used to hold the oil and water sensor relays.

In the following drawing, you can see the plate dimensions:

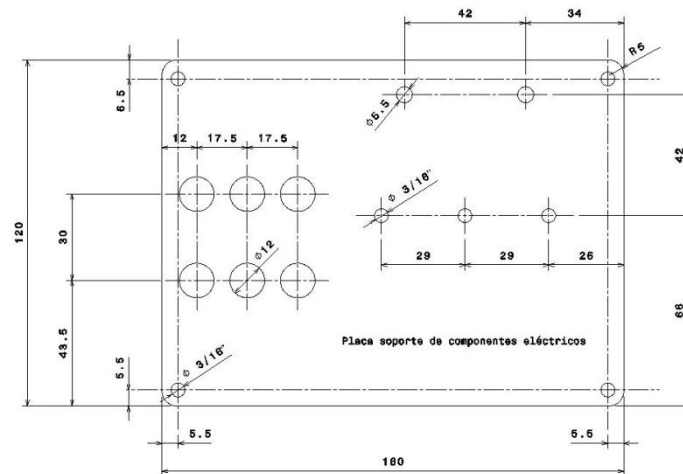


Fig. 9

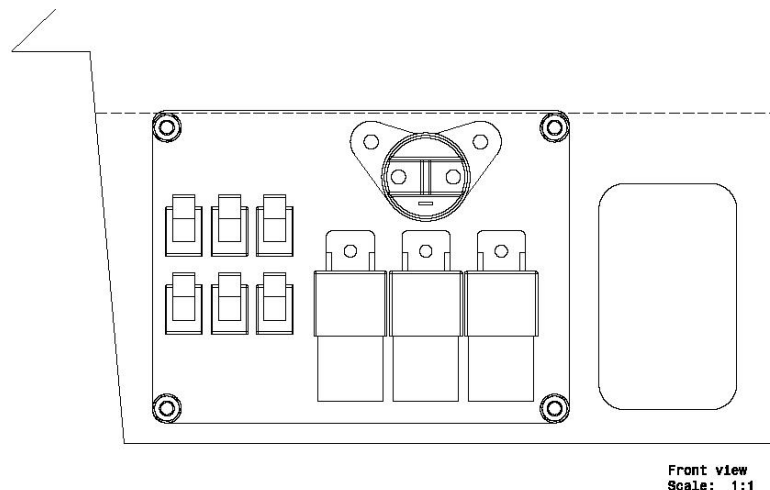


Fig. 10

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Fig. 11

Step 4- Connecting the looms.

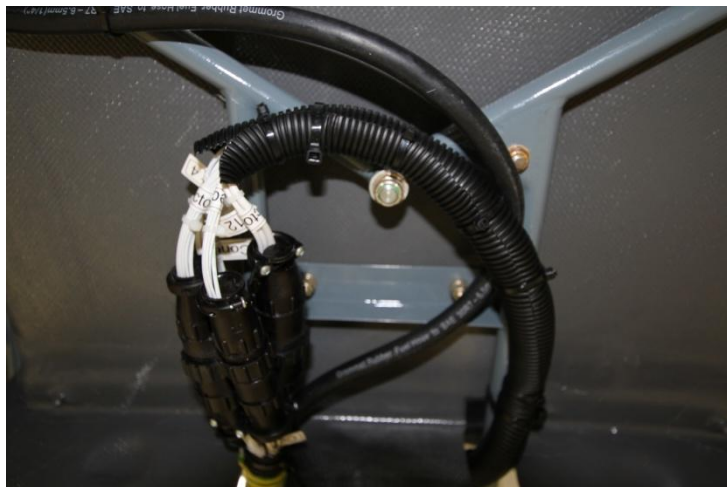


Fig. 12

The set of looms provided by CICARÉ has connectors already installed join the looms. The only wires that need connectors are the ones from the electronic ignition units on the ROTAX engine. Rotax supplies these fittings with the engine.

NOTE

Refer to the original engine installation manual for further instructions.

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