

Installation

Disconnect all batteries before commencing installation.

Ensure the auxiliary battery is mounted securely to prevent movement in any direction.

Location

The Baintech VCR (Voltage Control Relay) should be mounted on a flat dry surface under the bonnet such as a firewall.

The Baintech VCR must be kept well away from any hot items such as exhaust systems or turbo chargers.

Cable Preparation

When running all cabling avoid all hot, sharp surfaces and moving parts such as fans and pulleys.

Cut red battery cables to required length to reach each battery point.

Strip cable ends back 10mm.

Place cables in lug and either crimp or solder onto the cable.

Place red heat shrink and melt around the cable and lug (keeping well clear of the battery).

Cut black battery cable to required length to reach each battery point.

Strip cable ends back 10mm.

Place cables in lug and either crimp or solder onto the cable.

Place black heat shrink and melt around the cable and lug (keeping well clear of the battery).

Cable Connecting

Attach one end of the red 10mm² cable to the + positive terminal of the auxiliary battery, attach the other end of the cable to the VCR 'M6 screw terminal' labelled (87).

Attach one end of the red 10mm² cable to the + positive terminal of the primary battery, attach the other end of the cable to the VCR 'M6 screw terminal' labelled (30).

Attach one end of the small black 1.5mm² cable to the VCR terminal (86) using the spade connector provided. Connect the other end to the closest earth connection, usually the mounting point of the VCR.

Attach one end of the black 10mm² cable to the - negative terminal of the auxiliary battery using the correct sized lug connector. Connect the other end to the closest earth connection, usually the chassis on the motor vehicle. For safety please ensure to use DC fuses on the positive cables where possible. Refer to the installation diagram in Figure 1.

Option

If you want to use the emergency parallel feature, you can make a switched connection with terminal marked (85). Once this switch has been activated both starter and auxiliary batteries will connect together making starting easier. For safety please ensure to use DC fuses on the positive cables where possible.

Refer to the installation diagram in Figure 1.

Testing

Reconnect the primary starting battery.

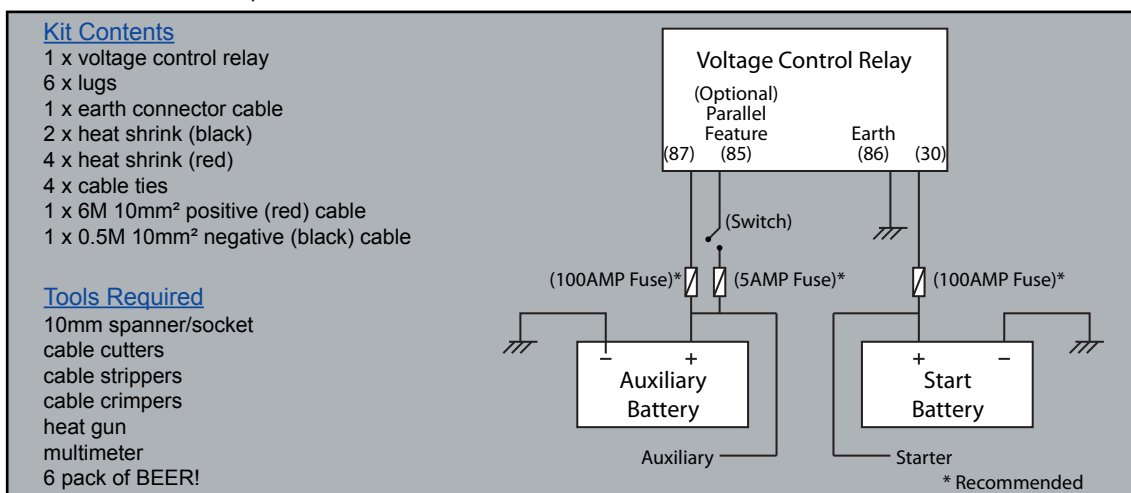
Start your Engine.

Set your multimeter on DC Volts.

To test the Baintech VCR; continually touch with the red multimeter terminal point to the M6 Screw terminal labelled 'Primary Battery' (30). Then continually touch the black multimeter terminal point to the 'negative - VCR Earth point', this is the mounting point of the Baintech VCR to the Vehicle chassis.

The voltage should quickly reach 13.2volts (26.4v for 24v system); this may vary in time depending on the type of vehicle. Once the voltage reaches 13.2volts (26.4v) (you will hear an audible click) the relay will open to allow current charge through to the 'Auxiliary Battery' (87). This can simply be tested by continually touching with the red multimeter terminal point to the M6 Screw terminal labelled 'Auxiliary Battery' (87).

The Baintech VCR installation is now complete.



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Cable Connecting

Attach one end of the POSITIVE cable to the + positive terminal of the auxiliary battery, attach the other end of the cable to the VCR 'M6 screw terminal' labelled (87).

Attach one end of the POSITIVE cable to the + positive terminal of the primary battery, attach the other end of the cable to the VCR 'M6 screw terminal' labelled (30).

Attach one end of the NEGATIVE/EARTH cable to the VCR terminal (86) using the spade connector provided. Connect the other end to the closest earth connection, usually the mounting point of the VCR.

Attach one end of the cable to the - negative terminal of the auxiliary battery using the correct sized lug connector. Connect the other end to the closest earth connection, usually the chassis on the motor vehicle. For safety please ensure to use DC fuses on the positive cables where possible.

Refer to the installation diagram in Figure 1.

Option

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