

WIRING LOOM

12/24V DC

ARB 4X4 ACCESSORIES

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KIT CONTAINS

- > 1 x Wiring loom (6m/20' long)
 - Termination End A: Blade fuse holder, 15 Amp fuse and 2 x ring connectors
 - End B: Exposed wires (no termination)
- > 1 x Surface mount with DC socket
- > 1 x Rubber seal
- > 2 x 90° female blade connectors
- > 2 x Protective cover for 90° female blade connector

TOOLS REQUIRED

Wire cutters, wire crimps, soldering iron, solder, heat shrink tubing, heat device for heat shrink tubing, cable ties, DC volt meter, 30mm (1 3/16") hole saw and drill (flush mounting only), sharp knife or file (surface mounting only), eye and ear protection, rust preventative.

SAFETY

Work safely at all times. Eye and ear protection should be worn when using drill.

INSTALLATION INSTRUCTIONS – For 12/24V DC applications only. Max power 180W.

1. Identify a suitable location to install the power socket. The following points should be considered when choosing a suitable location:
 - Position the power socket as close to the accessory (e.g. fridge) as is practical.
 - Position the power socket in a convenient location that will allow the user to easily connect and disconnect the plug from the socket.
 - Position the power socket in a protected location away from dust and moisture.
 - Position the socket high in the vehicle to prevent it from becoming wet should the vehicle ingest water.
2. Starting at the battery, feed the non-terminated end of the main wiring loom through the vehicle. Leave enough length to attach the ring connectors to the positive and negative terminals of the battery.
CAUTION: Do not connect the loom to the battery at this stage.
WARNING:
 - When installing the loom, make sure that the cable is secured away from sharp, hot or moving surfaces.
 - Exposed sections of the wiring loom should be shielded with corrugated tubing or similar and secured every 300mm (12") using cable ties or equivalent. Do not attach to fuel or brake lines.
 - If the wiring loom passes through a metal panel, it should be protected using a rubber grommet or similar.
3. Once the main loom has been fed through the vehicle to the desired location, cut any excess wire from the non-terminated (free) end of the loom.
HINT: For best performance, the main wiring loom should be as short as is practical.
4. Terminate the free end of the main wiring loom using the two 90° female blade connectors. The connectors should be crimped onto the wire and then soldered into place. Ensure that the protective covers are fitted over the 90° blade connectors.
5. Install the 90° insulated female blade connectors onto the male terminals on the back of the DC socket. Ensure that the positive (RED) wire is fitted to the terminal marked '+' and the negative (BLACK) wire is fitted to the terminal marked '-'.
CAUTION: Make sure the terminals and connectors are correctly insulated to prevent electrical short circuit.
6. Surface Mounting
 - Fit the rubber seal to the recess on the back of the surface mount housing.
 - Position on a flat surface and fix through the 2 holes provided using suitable fasteners. Treat bare metal with rust preventative.
CAUTION: Take care not to over tighten the fasteners during installation.
 - If required, cut or file material from the relief points in the housing to allow the wiring loom to exit the surface mount.
7. Flush Mounting
 - Remove the DC socket from the surface mount by unscrewing the retaining nut.
 - Select a suitable location; ensure there is nothing that will interfere with or be damaged by the installation.
 - Drill a 30mm (1 3/16") hole through the panel in the desired location. Treat bare metal with rust preventative.
 - Install the DC socket into the 30mm (1 3/16") hole. Fasten the socket to the panel using the retaining nut.
8. Connect the positive and negative ring connectors to the correct battery terminals. Check the continuity of the plug using a DC volt meter.



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