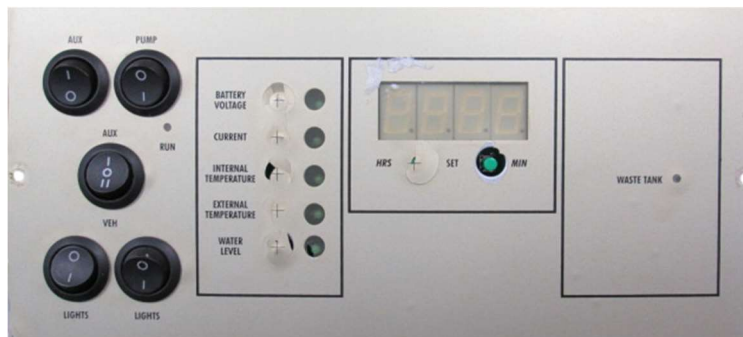


Fitting Instructions for 27B & 27S

Replacement Panels

The instructions below are **ONLY** for the type 27S panel shown below:-



Fitting instructions

- Disconnect all wires and remove the panel from the wall.
- Undo the 4 x nuts/washers and remove the PCB from the front panel and dispose of responsibly.
- Clean off any leakage from the battery, dust, oil etc. from the front panel.
- Place one of the supplied black caps on each of the 5 switches on the left hand side of the PCB.
- Remove 2x green switch caps from the original PCB and place them on to the HRS and MIN buttons on the new AE 27S board.
- Adjust the number of existing/new nuts/washers on the studs to ensure that when the new PCB is fitted, the buttons are able to be pressed through the membrane of the fascia.
- The 7 segment display is supplied with a self-adhesive filter to improve the contrast. This is an optional item and can be fitted or left off. Cut a piece of film approx. 65x30mm. Peel off the backing (Sticking 2 pieces of tape either side of a corner of the film can significantly ease removing the thin, clear backing) and stick the filter centrally onto the display. Using scissors, cut 4 diagonals into the film as shown in the diagram below. It is not critical the exact direction of the cut but it must finish at the corner of the screen. **DO NOT** stick the film down the sides of the display



- Position and secure the PCB using the previously removed/new nuts/washers - make sure all the buttons can be depressed and released.
- Note: The 6.5mm drill bit supplied, is not used for 27S fitting.
- Reconnect all wires and re-seat the panel back in to the wall.
- The panel must now be adjusted so values match the vehicle system. Perform the following procedures as outlined in the User Instructions:-

- Calibrate the Current Reading
- Calibrate the Voltage Reading
- Calibrate the Water full level

The instructions below are **ONLY** for the type 27B panel shown below:-



Fitting instructions

- Disconnect all wires and remove the panel from the wall.
- Undo the 4 nuts/washers and remove the PCB from the front panel and dispose of responsibly.
- Clean off any leakage from the battery, dust, oil etc. from the front panel.
- Remove waste LED assembly, wiring and glue from the front panel.
- Use the supplied 6.5mm drill bit to enlarge the 7 switch holes drill from the back of the panel and put a wooden block over the hole at the front to avoid burring of the fascia.
- Deburr these larger holes from the back.
- Fit the 7 black switch caps to the switches by pushing them squarely onto the switch.
- Check the fit of the display - you may need to file the front panel hole to allow the display to fit.
- The 7 segment display is supplied with a self-adhesive filter to improve the contrast. This is an optional item and can be fitted or left off. Cut a piece of film approx. 65x30mm. Peel off the backing (Sticking 2 pieces of tape either side of a corner of the film can significantly ease removing the thin, clear backing) and stick the filter centrally onto the display. Using scissors, cut 4 diagonals into the film as shown in the diagram below. It is not critical the exact direction of the cut but it must finish at the corner of the screen. **DO NOT** stick the film down the sides of the display



- Adjust the number of existing/new nuts/washers on the studs to ensure that when the new PCB is fitted, the switches extend through the front panel by 1mm.
- Position and secure the PCB making sure all the buttons move freely in the holes.
- Cut off the LED, resistor and glue from the previously removed waste LED assembly. Strip the wires and fit into the screw terminal on the PCB the polarity is marked on the PCB RED is the positive.
- Reconnect all wires and re-seat the panel back in to the wall.
- The panel must now be adjusted so values match the vehicle system. Perform the following procedures as outlined in the User Instructions:-
 - Calibrate the Current Reading
 - Calibrate the Voltage Reading
 - Calibrate the Water full level