



# INSTALLATION

## DBE140SF

### INSTALLATION

Ensure the negative terminals from both the Main and Auxiliary Batteries have been disconnected.

*Note: Short circuiting of any wire to the body will cause damage to both the unit and the vehicle and will also void your warranty.*

### MOUNTING & WIRING PROCEDURE

1. Using built in brackets, mount DBE140 unit on firewall securely as high as possible away from heat and water. (see wiring diagram)

2. Using 10mm<sup>2</sup> automotive grade cable and 10-6 cable lug, connect POSITIVE to main battery. (100 Amp midi fuse recommended)

4. Attach earth cable to chassis or motor based earth. (Scratch back to bare metal)

5. Refer to **USER INTERFACE - LED OPERATION** for DBE140S operation and enjoy your hassle free dual battery system!

*NOTE: DO NOT connect winches, welders or inverters above 1000 Watts to Aux. battery.*

### TESTING PROCEDURE

To check if the unit is operating, remove the Auxiliary Battery Cable from the Auxiliary Battery and install a test light between the earth and Auxiliary Cable. Start the vehicle engine and the test light should come on after 5 seconds (or sooner).

*NOTE: Some new vehicles may take some time before alternator activates. The alternator is wired via the ECU, which is wired via a temperature sensor. That means the engine needs to warm up first before the alternator starts charging. To do your test procedure you have to wait until the alternator activates before you can check whether or not it is charging.*

### LED LIGHT OPERATION DBE140SF

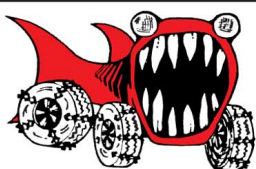
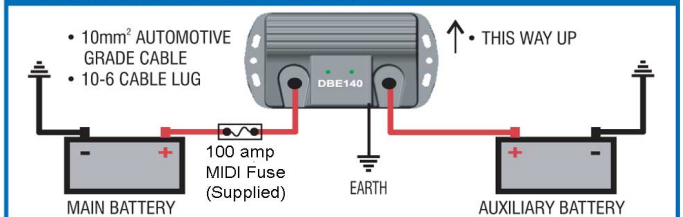
Two LED indicators provide an extensive user interface showing operational and diagnostic display, as follows.

- ○ Main battery greater than 12.8V
- ● Main battery greater than 12.8V and charging auxiliary battery
- ○ Main battery less than 12.8V and auxiliary battery disconnected
- ● FLASH Overload - auxiliary battery disconnected  
DBE140S will automatically reconnect when safe to do so
- ○ FLASH Over voltage - auxiliary battery disconnected  
DBE140S will automatically re-connect when safe to do so
- ● FLASH FLASH Fault with vehicle electrical system - VPF Enabled.  
Please check your Vehicle for faulty connections. DBE140S will automatically re-connect when the vehicle fault has been rectified.

### SPECIFICATIONS DBE140SF

PART NO.	DBE140SF
TYPE	VOLTAGE SENSING ISOLATOR
CUT IN VOLTAGE	13.2V
CUT OUT VOLTAGE	12.8V
CHARGING SYSTEM	SUITABLE FOR UP TO 140 AMP
DIMENSIONS	W-127mm H-72mm D-49mm
WEIGHT	250g
CURRENT LIMITING	ELECTRONIC / 100Amp Midi Fuse (Supplied)
SPIKE/SURGE PROTECTION	BUILT IN
STARTING	MAIN BATTERY ONLY

### WIRING DIAGRAM DBE140SF



**piranha**  
OFF ROAD PRODUCTS

Piranha Off Road Products  
Factory 4, 383 Dorset Road  
Boronia VIC 3155  
Fh: (03) 9762 1200  
Fx: (03) 9762 1400  
www.piranhaoffroad.com.au



AUSTRALIAN DESIGNED, MADE & OWNED

Piranha use & recommend:

