

## Provisional specification for replacement Westerly switch panels



The panels are designed to replace the panels supplied by *kddpowercentre* for Westerly yacht models Merlin, Seahawk, Fulmar, Falcon, Corsair.

The panels are 10 mm wider and deeper to move fixing screw position, and afford extra coverage for possible panel damage in the area of the switch panel cut-out.



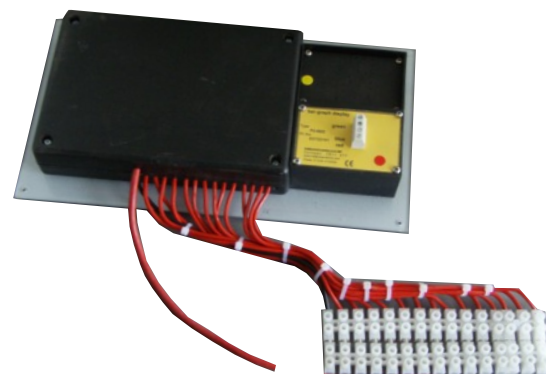
### Basic panel

It features 13 Polyswitch circuit breakers, one for each circuit, each with a separate switch and red LED to indicate a circuit breaker trip. Turn off switch, then turn back on, to reset circuit breaker, if a permanent fault the circuit breaker will remain tripped.

The panel has switches for all the functions of the old panel, with additional switches for nav equip, aux power, shower pump, and fridge. The switch legend has low level back light when the nav lights are switched on. When the circuit is engaged, the legend is illuminated at high level to identify it. There is a boat mimic that shows which navigation lights are switched on, and have power. It does not indicate a failed bulb, or faulty connection to the bulb. .

Battery status, is now via two 10 dot bar graphs, with over voltage alarm. This is supplied via a new split charge relay with a larger capacity. The power lock-out relay is now an optional item.

Output from the panel is via a plug and socket system, the layout matches most of the original switch panels. This makes for a very simple replacement, changing wire from pin 1 to the new pin 1.

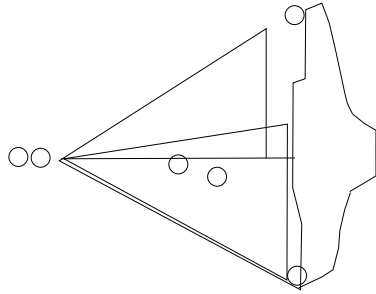


### Up-grade panels

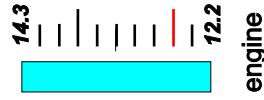
This range is the same dimensions as the basic panel, but can be supplied with switches fitted with two circuit breakers. This allows two separate circuits to be supplied via their own circuit breaker, but controlled by one switch. This feature is available on, bi lights ( allowing supplies to bi-light and stern light ), both cabin light switches, ( allowing four light circuits ), inst power, nav equip, and aux switch can supply two separated circuits. All twin circuits are limited to a total power of 8 amps.

Battery display features either the basic two voltmeter bar-graphs, or 2 x voltmeter bar-graphs plus a bar-graph ammeter these are supplied from a 100 amp continuous rated VSR with integral current shunt. This can also provide emergency engine start via VSR from service battery bank, this is for a timed period, engaged via button on the switch panel.

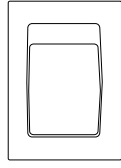

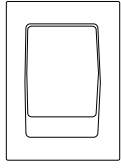

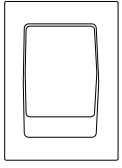

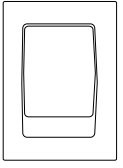

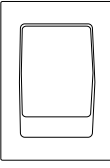

If a water level probe kit is fitted, the level in the fresh water tank is displayed on the ammeter bar-graph via the test button.

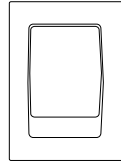

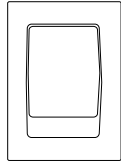

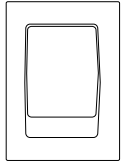

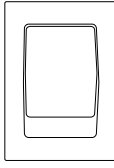



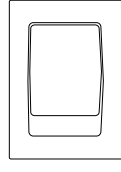

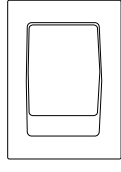

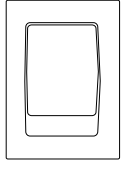

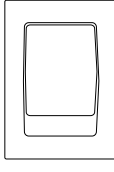

**battery status**

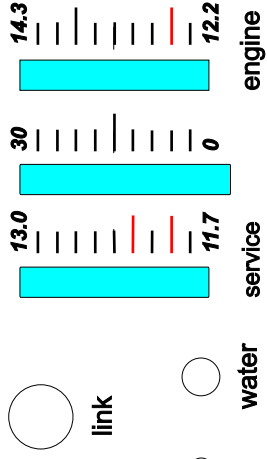
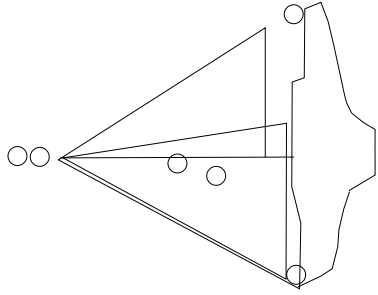


**dc power**

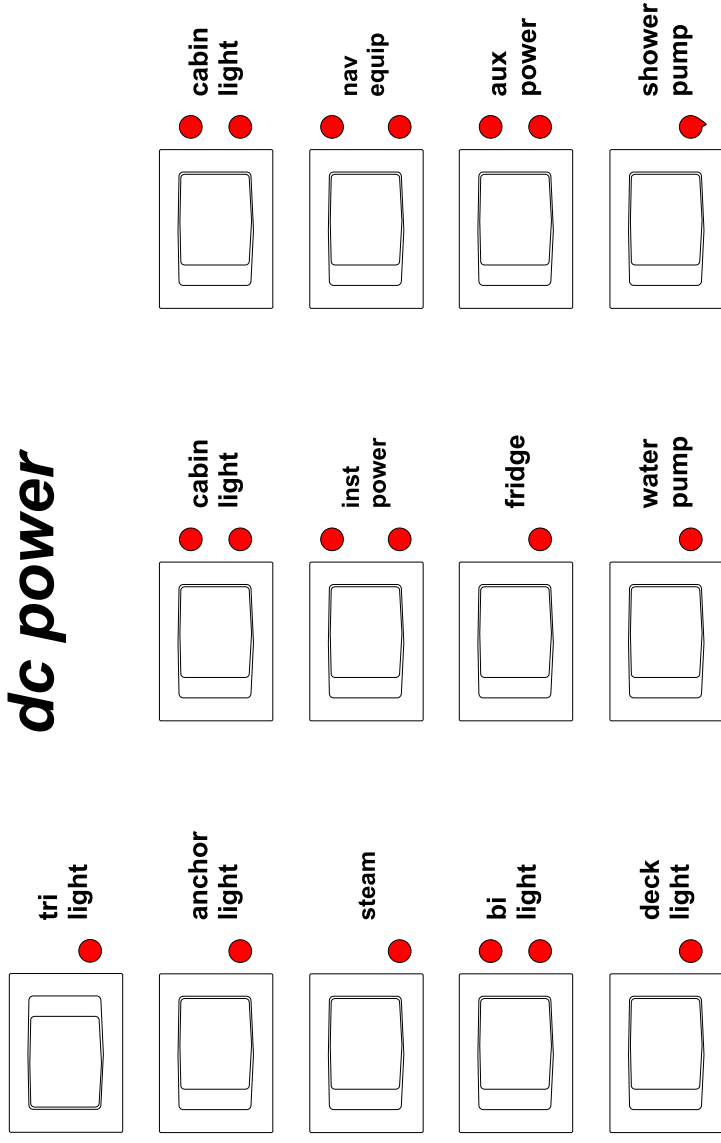
	tri light	
	anchor light	
	steam	
	bi light	
	deck light	

	cabin light	
	inst power	
	fridge	
	water pump	

	cabin light	
	nav equip	
	aux power	
	shower pump	



**dc power**



# detail for replacement Westerly switch panel

panel size 280 mm x 155 mm x 40 mm

navigation lights, illuminates when switched on

battery voltage

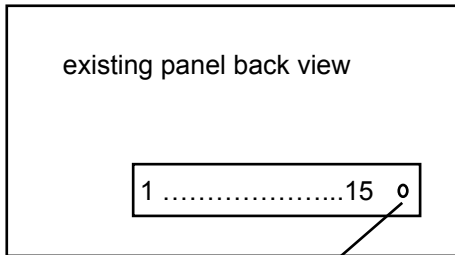
rested battery no load  
1/1 = full battery  
1/2 = half charged battery

second red line is approximately 50% discharged on nominal load.

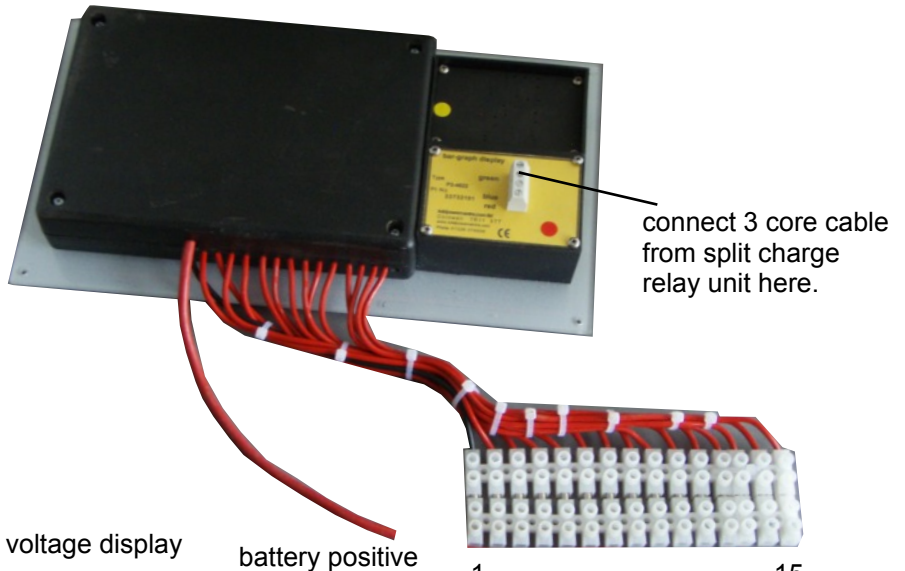


window lights red if circuit breaker trips  
To re-set circuit breaker, turn off switch, wait a brief time, and switch on.

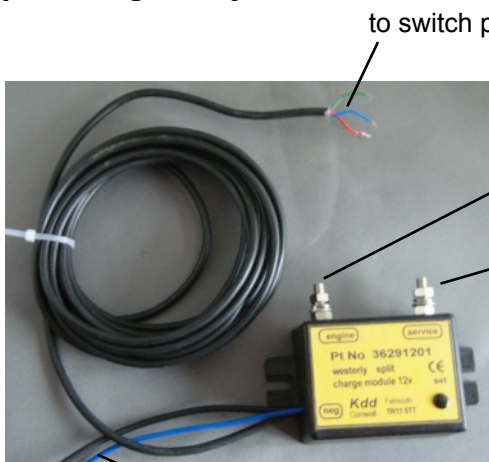
legend lights dual level green. as follows :-  
**low** level green with nav lights on,  
**high** level green with switch 'on'



battery positive



## split charge relay unit



battery negative black wire

starter inter-lock

to switch panel voltage display

engine battery positive

service battery positive

battery positive

If solar panels are fitted, connect blue wire to engine starter button.  
When button is pressed to start engine, relay will drop out if engaged to protect solar panel.

- 1.....15
- 1... negative for switch back lighting
  - 2... water pump
  - 3... instrument power
  - 4... deck lights
  - 5... tri-colour nav lights
  - 6... cabin lights
  - 7... cabin lights
  - 8... instruments lights 25 watt max
  - 9... bi-colour nav lights
  10. steaming light
  11. anchor light
  12. nav equip.
  13. aux power
  14. shower pump
  15. fridge