







Manual instruction of replacement IR element RELAX GLASS

BREL1200/1500/1800/2200

1. Prepare the element and tools as below:

Parts/tools	qty	specification	photo
Element	1	Same specification	
Splice connectors	2	copper, inner $\Phi 3.2$ mm, outer $\Phi 5$ mm, L=15 mm	
Heat shrinkable tube	2	$\Phi 7.9 \times 70$ mm	
Heating air gun	1		
Flat screwdrivers	1		
Pliers	1		
Phillips screwdrivers	1		

2. Use a screwdriver to unscrew the four screws on the back of the housing, as shown in Figure 1 below. Then manually separate the housing assembly from the glass as shown in Figure 2 below:



Fig.1

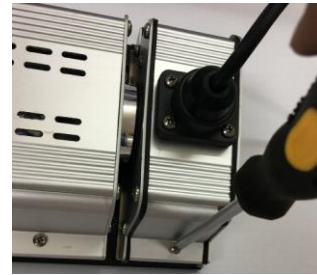


Fig 2

3. Remove the 4 screws on the left and right cover, as shown in Figure 3 and 4 below.



Fig.3



Fig.4

4. Pull all wires gently out of the box, as shown in Figure 5 below. Find 2 wire set with silicon sleeve. Cut the nylon tie and remove the silicon sleeve, cut the shrinkable tube, as shown in Figure 6 below.

Keep two silicon sleeves for process described in Step 20.

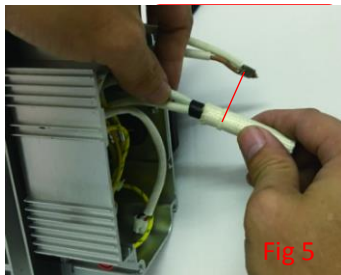


Fig 5



Fig 6

5. Use a pliers to loosen two bare ends, as shown in Figure 7 below. Loosen two twisted wires, remove two glass fiber sleeves from the element wire. Please keep two glass fiber sleeve and use in the process as described in step 18



Fig.7

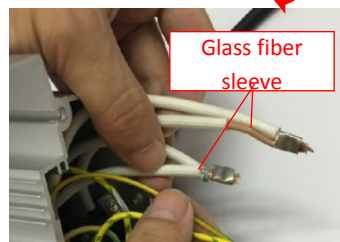


Fig 8.1

6. Screw off four screws fixing the reflector set as shown in fig. 9 and fig. 10.

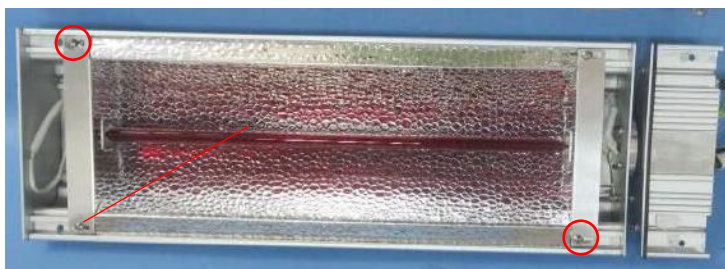
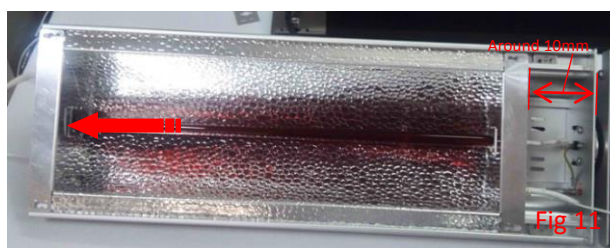


Fig 9



Fig 10

7. Move the reflector set to the left and leave a space for operation.



8. Pull element wires out of the terminal compartment by hand, see Fig.12:



Fig 12

9. Pull the element wire from the groove of the housing, as shown in Figure 13 and 13.1 below:

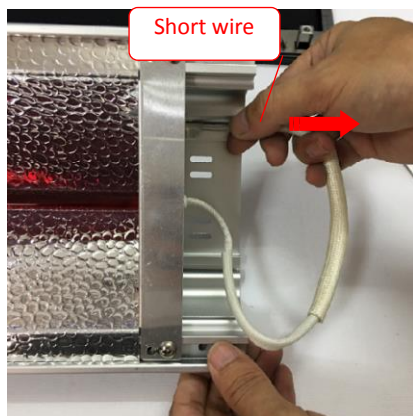


Fig.13

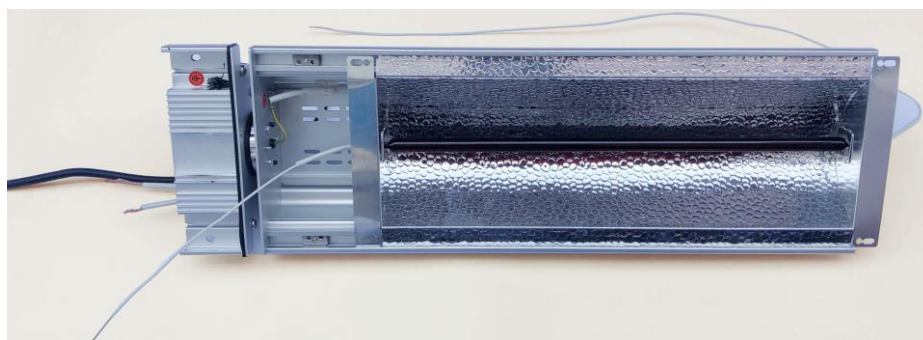


Fig.13.1

10. Use a flat screwdriver to straighten out two nails of the element fixture plate, and take off the mica plate, as shown in Figure 14, Figure 15, and Figure 16 below.



Fig 14

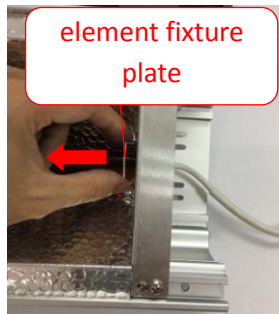


Fig 15

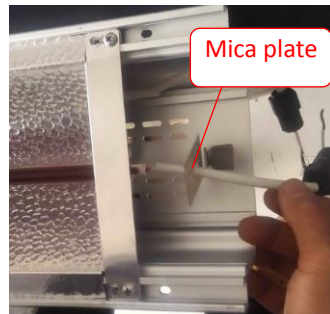


Fig 16

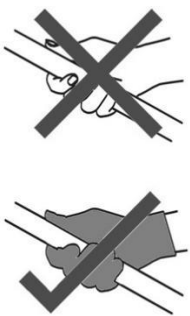
11. Pull the heating tube gently from the left, as shown in Figure 17 and 18 below



Fig 17



Fig 18



Attention: Do not handle the halogen emitter with bare hands. If it is inadvertently touched, remove finger marks with a soft cloth and methylated spirit or rubbing alcohol. Otherwise, the marks will burn into the quartz emitter during use causing premature heater failure.

12. Install a new element.

Pass one end of the element with a short wire through the “right support plat”, "element fixture plate" and “left support plat” in sequence, as shown in Figure 19 and 20 below.

The bump on the element should be facing downwards to the focus of the arc reflector, as shown in Figure 21 below.

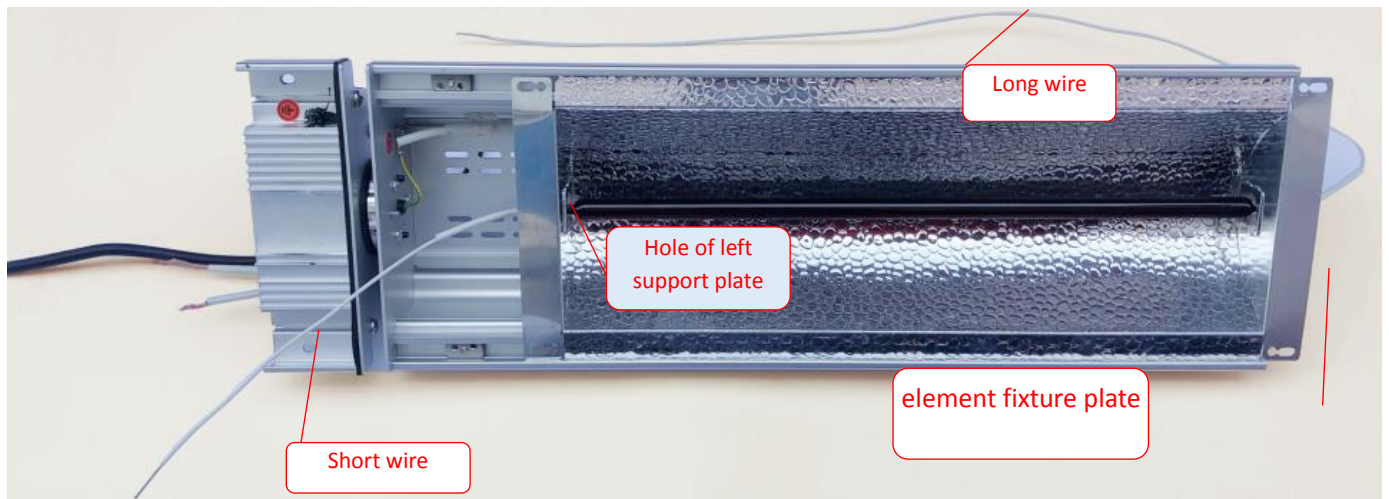


Fig.19

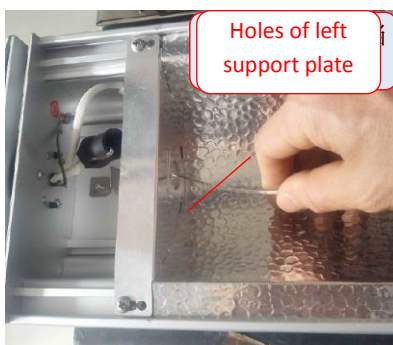


Fig 20

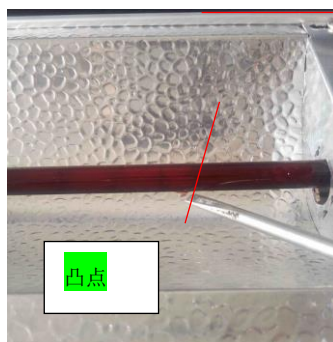


Fig 21

13. Insert the element in the slot of the mica plate, as shown in Figure 22 and 23 below

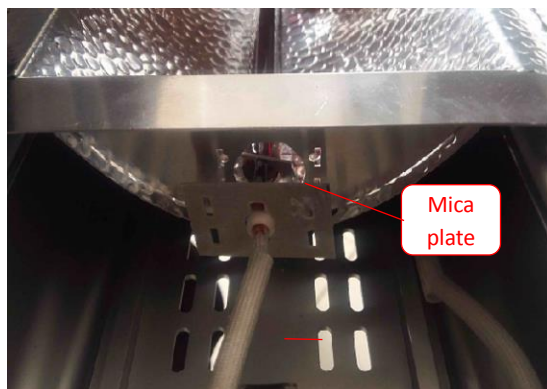


Fig.22



Fig.23

14. Flatten two nails by a Pliers or a screwdriver as shown in Figure 24 below. The element fixture plate is solidly locked on the side plate.



Fig 24

15. Pass the long wire of the element through the groove on the housing as shown in Figure 25 below. Use a flat-blade screwdriver to pick out the wire at another side as shown in Figure 26 below.



Fig.25

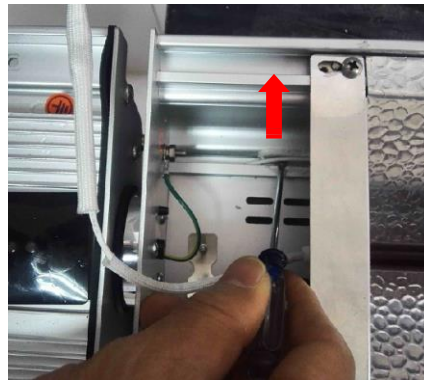


Fig 26

16. Apply a little lubricating oil to two element wires, as shown in Figure 27 below. Then pass them through two hole of the wire sleeve, as shown in Figure 27 and 28 below.

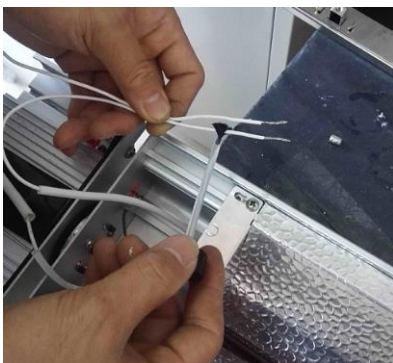


Fig 27

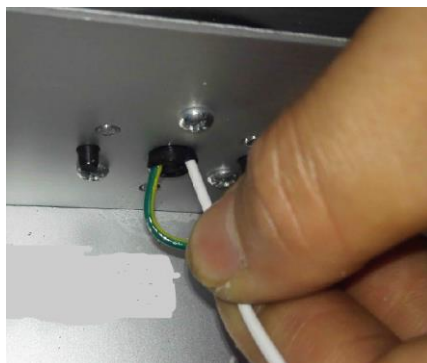


Fig 28



Fig 29

17. Pull two wires into position, until the silicone sleeve tightly close to the wire sleeve, as shown in Figure 30 below.

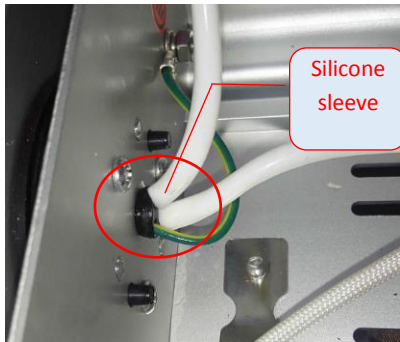


Fig 30

18. Put two element wires with the glass fiber sleeve (Kept in the **process of 5**) as shown in Figure 31 below. Connect one of element wires, with the wires labeled with “L” by a Splice connector. Connect one of element wires, with the wires labeled with “N” by a Splice connector. Cramp the connector tightly with a pliers, as shown in Figure 32 and 33.

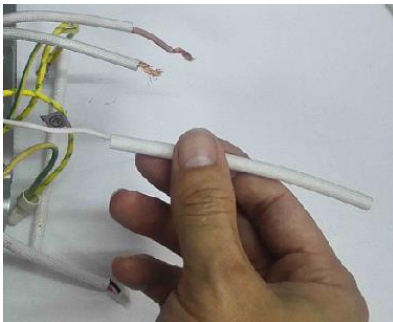


Fig 30



Fig.32

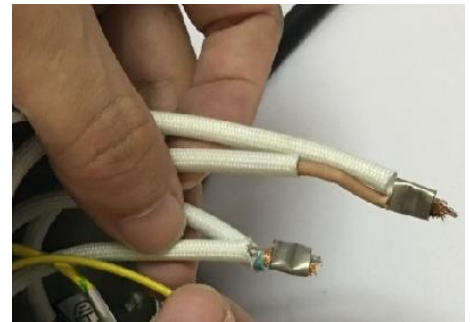


Fig.33

19. Place the heat-shrinkable tube on two connectors, shrink it with a Heating air gun or a lighter. Seal the opening of the heat-shrinkable tube with a pliers, as shown in Figure 34, 35 and 36 below.



Fig 34

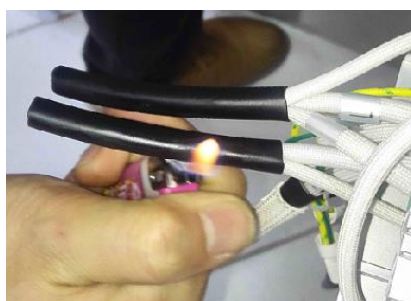


Fig 35



Fig 36

20. Put a silicone sleeve (kept in the process 4) on the heat shrink tube and tie them up with a nylon cable tie. Put all wires set into the control box gently, and screw on the side plate, as shown in Figure 37, 39 and 39 below.

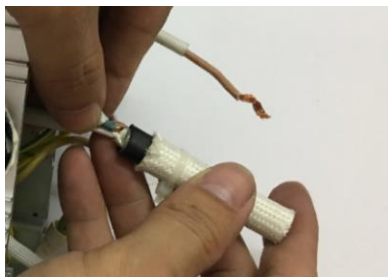


Fig. 37



Fig.38

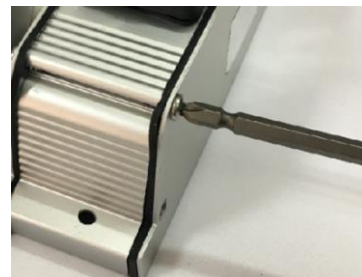


Fig.39

21. Assemble the glass panel with the housing by fixing 4 screws on the back of the housing as shown in Figure 41 and 42 below.

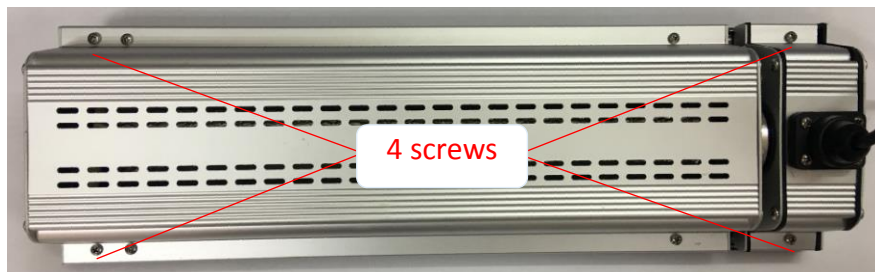


Fig.40



Fig.41