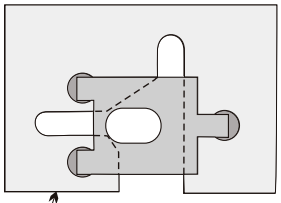
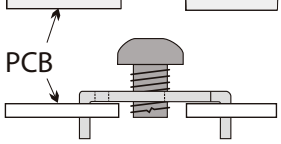
LHR100 SERIES Hardened Rotatable Couplers

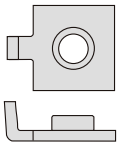
Connector T erminals



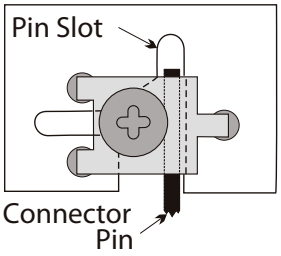
Top view of PC Board & T erminal Top, swaged & soldered together



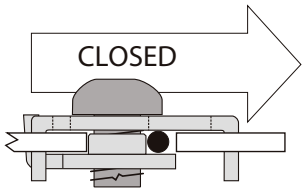
Side view of PCB & Terminal Top with Terminal Screw. Final thread deformed to prevent complete screw removal. Never forcibily remove the screw.



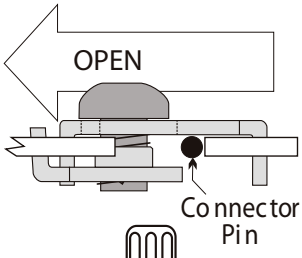
Top & side views of Terminal Bottom, with threaded hole for screw.



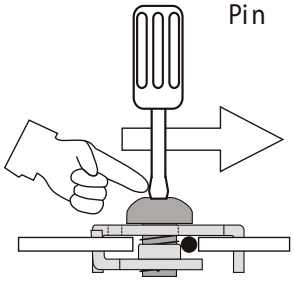
Connector Pin size & location. Pin length of a fully installed connector must be less than Pin Slot length, see Pin Length Gauge, above.



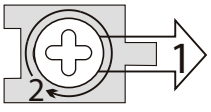
Assembled Connector Terminal in CLOSED position. Connector pin is captured between the top & bottom terminals when the screw is pushed to the right and tightened.



Assembled connector in the OPEN position , the screw is loosened 1 to 1 ½ turns & pushed to the left releasing the connector pin. When other terminal screws & board mounting screws are loosened, the PCB can be lifted out over the undisturbed connector pin.



To close the terminal, push the tip of the screwdriver to slide the terminal bottom over the connector pin, then tighten 1 to 1 ½ turns.

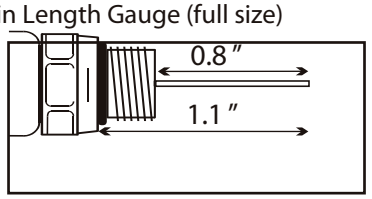


REMEMBER: Always slide the terminal screw, then tighten to 1 ½ turns.

Connector Installation

1. Use the Pin Length Gauge on the housing to cut the connector pin to the correct length, as shown in adjacent scale diagram. It must fully enter connector terminal but NOT extend beyond PCB slot when completely inserted.

Pin Length Gauge (full size)



2. When installing connectors make sure threads and mating surfaces are free of foreign matter.Apply a thin coating of grease, as recommended by the connector manufacturer, to the connector O-ring and threads.

3. Loosen and slide the connector terminal screw so the terminal is in the open position. The screw is captivated to the lower terminal plate to prevent its complete removal from the terminal. Loosen terminal screw only enough to permit the connector pin to slide between the 2 terminal plates, about 1 to 1½ turns. Stop loosening the screw when resistance is felt. Do not forcibly remove the screw.

4. Install connector according to manufacturer's instructions. Verify the pin is the correct length and that the connector is properly installed and seals the housing.

5. When tightening terminal screws, push tip of screwdriver to slide the screw and lower terminal plate over the connector pin, then tighten the screw. The adjacent diagrams show exploded views of the terminal and the open and closed positions.

PC Board Replacement

1. It is recommended that AC power be disconnected before removing the printed circuit board, or remove all fuses/fuse bars.

2. Loosen the 6 board mounting screws until about 2 threads are exposed. Use a 3/16" nut driver or slot screwdriver. DO NOT REMOVE THE SCREWS.

3. Loosen the connector terminal screws until the screw and terminal bottom are free to slide, about to 1 ½ turns . DO NOT REMOVE TERMINAL SCREWS. Slide the terminal screw to the OPEN position. Refer to the adjacent Connector Terminal section of this instruction sheet for an understanding of how the terminal operates.

4. The PCB assembly is free to lift out when all board mounting screws are loosened and all terminals are in the OPEN position. It may be helpful to tighten the screw in the open position to prevent the terminal bottom from sliding back over the connector pin.

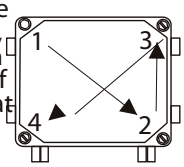
5. To install the new board, reverse the procedureWhen tightening the terminal screw, push the tip of the screwdriver to slide the terminal screw and terminal bottom over the connector pin. Then tighten the screw 1 to 1 ½ turns.

Closing the Lid:

1. Make sure the moisture seal O-ring in the housing base is clean and free of foreign matter, and that the wire mesh gasket in the lid has no frayed or loose wires. Tuck any stray strands back into the mesh channel.

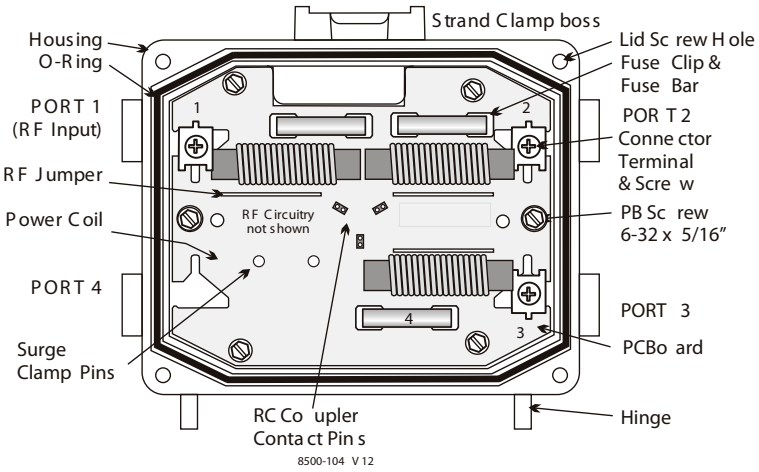
2. Apply a thin film of Dow Corning 55M or General Electric G623 grease to the moisture seal. DO NOT USE PETROLEUM BASED GREASE which may deteriorate the rubber seals.

3. Close the lid and tighten the lid screws finger tight. Using a 3/8" wrench, alternately tighten each fastener a small amount, tightening finally to 50 to 100 inch pounds (5.6 to 11.3 Nm) Sufficient closing torque cannot be produced with a nut driver or screw driver, use a wrench. This procedure ensures a waterproof seal by preventing warping of the lid, and ensures metal to metal contact at the corners



LHR100 SERIES Hardened Rotatable Couplers

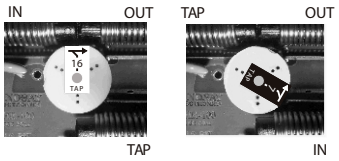
Component Description



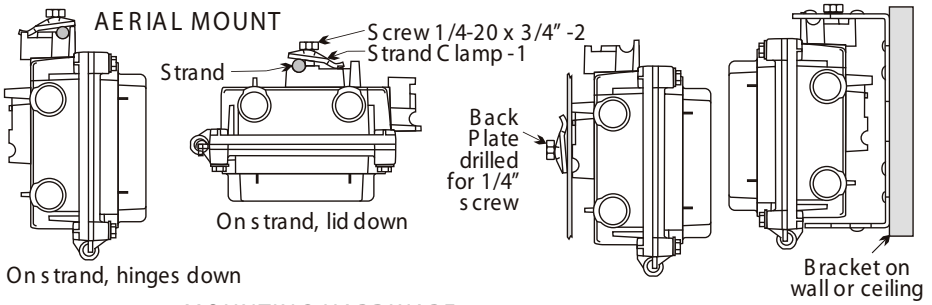
Port Function

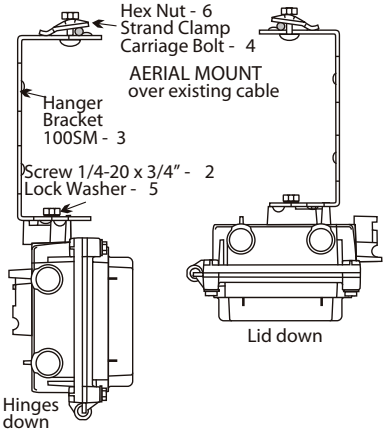
Installing and Positioning of Coupler

The LHR100 Series couplers can be installed 6 different ways for total flexibility of Port configuration. The arrow on the cover identifies the input (large end) and output (point of arrow) ports, the tap is identified by the word TAP The coupler can be installed with either the white or black arrow facing up which identifies the ports. Pins on main board insert in holes of the coupler. Once pins are inserted in holes, push gently until you hear a snap locking the coupler in place. If installing new coupler for first time, attach label included with the RC coupler to the outside of the housing (on LHR label) over current value or place for value.



Installation Instructions



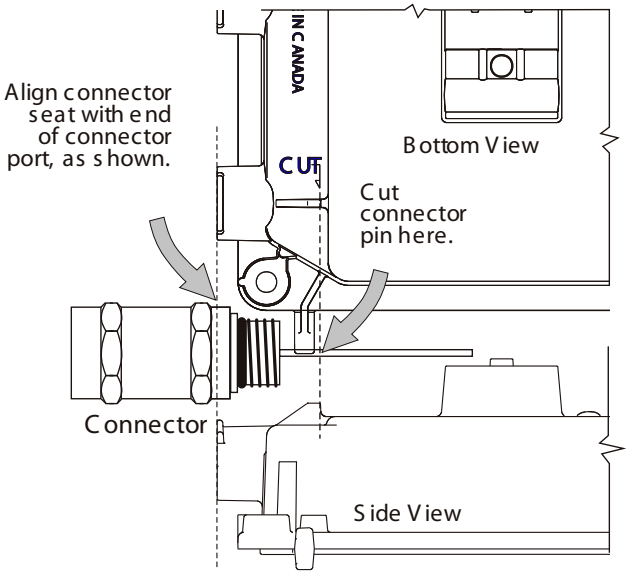


MOUNTING HARDWARE

Item	Description	Part No.
1	LGT Strand Clamp	3512-029
2	Screw 1/4-20 x 3/4"	6022-015
3	Hanger Bracket	3512-036
4	Carriage Bolt 1/4-20 x 11/4	6022-008
5	Lock Washer 1/4 Split	6000-136
6	Hex Nut 1/4-20	6000-042

Items 3 to 6 comprise optional Hanger Bracket Assembly

Connector Pin Length Gauge



Fuses and Fuse Clips

Prior to shipping all Lindsay Broadband Inc.'s 100 Series Passives are tested for very firm contact between the fuse clips and the fuse bars. Overheating at the fuse clips due to insufficient contact pressure between the clips and fuse bars (or fuses) may cause serious damage to the unit if the following procedure is not observed.

Before re-installing a fuse bar, fuse or Surge Clamp device, always squeeze the fuse clips by pushing each side of the clip towards the centre, one side at a time. It is important to note that grasping both sides of the clip between your fingers and squeezing together may not achieve the required tension because of springback in the clip material.

It is important when re-inserting the fuse or fuse bar into the clips to avoid excessively spreading the clip. Excessive spreading may be caused two ways. First, by failing to centre the fuse between the pair of clips so that one end of the fuse is inserted past the end stops on a clip. Second, by pushing the fuse too deeply into the clips.

FUSE CLIPS:

To prevent over-heating, push in 1 side, then the other side, when replacing fuses.

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www.lindsaybroadbandinc.com