

REIDBRACE BRACING SYSTEM

1. Before starting the installation check that:

- You have the necessary parts in the kit – RBRACE Banana End with pins and clips; RBRACE-END with pins and safety clips; a Reid Full Nut, a Reid Half Nut, a tension spring and a locking tab washer.
- The RBRACE pins will fit the holes in the flange or cleat they connect to. It is easier to check at this stage than when the brace assembly is offered up to the structure.
- IF THE GAP BETWEEN THE BRACKET AND THE JAWS OF THE REIDBRACE BANANA IS 6MM OR MORE, THEN WASHERS ARE REQUIRED FOR PACKING BOTH SIDES OF THE BRACKET TO REDUCE THE CLEARANCE AND EQUALISE THE FITTING - REFER TO FIG 1A AND 1B.**

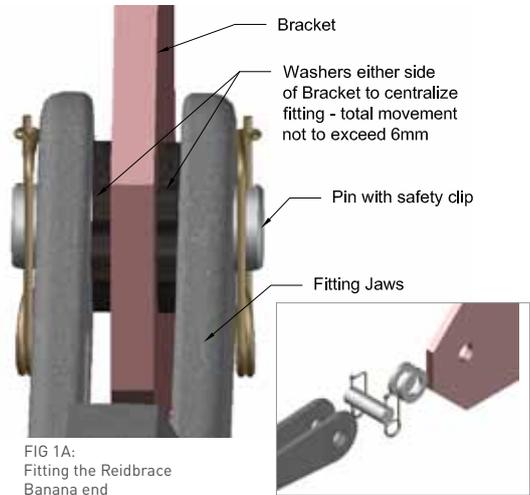


FIG 1A:
Fitting the Reidbrace
Banana end

FIG 1B:
Install of washers when
packing is required.

The Reidbrace Kits comprise of six major components and includes all the pins and safety clips for ease of ordering and installation. The kits are available in 12, 16, 20, 25 and 32mm sizes.



RBRACE Banana End plus pins and safety clips



RBRACE-END plus pins and safety clips



Reid Full Nut and Half Nut



Reid Tension Spring



Reid Tab Washer

2. Cut Reidbar to length by:

- Measuring the distance between hole centres of the brackets to be connected by the brace.
- Subtract from this dimension the distance A+B in the **Bar Length Table** (Table 1) below corresponding to the size of the Reidbar in the brace.
- If the Reidbar has to be joined by Reid Couplers¹ to achieve the length of the brace. There should be no need to adjust the length to cut for one coupler. If two couplers are necessary, then add 6mm to the dimension A+B.

BAR LENGTH TABLE: The table shows the dimension and bar length required to be cut for the Reidbrace installation

TABLE 1: BAR LENGTH FOR BRACING APPLICATIONS:

REIDBAR SIZE	RBRACE	A +/- 5mm	RBRACE_-END	B +/- 5mm	A + B (mm)
RB12	RBRACE12/16	135	RBRACE12-END	75	210
RBA16	RBRACE12/16	130	RBRACE16-END	80	210
RB20	RBRACE20	175	RBRACE20-END	105	280
RB25	RBRACE25	175	RBRACE25-END	125	300
RB32	RBRACE32	200	RBRACE32-END	135	335

3. Screw the Reidbar into the RBRACE-END and tighten¹.

4. If a coupler is required screw it onto the Reidbar and tighten. Then screw in the next length of Reidbar by holding the coupler and tightening the next length of Reidbar into it. Please note that Reid recommend that a half nut is used as a locking nut against the RBRACE-END fitting if a coupler is used in the brace system to lengthen the Reidbar brace. This Half Nut is not supplied in the bracing kit.

5. Install the RBRACE onto the other end of the Reidbar by first screwing on the Reid Half Nut about 120mm onto the Reidbar (use a Full Nut if no Half nut), slide on the tension spring and slip the RBRACE onto the bar. Slip on the tab washer (tab's facing towards the half nut) and then screw on the FULL NUT so that the bar is only just flush with the end of the nut. As much slack as practical is needed in the bar at this stage to help with inserting the fixing pins into the brackets.

6. The assembly of RBRACE-END and Reidbar and RBRACE can now be lifted into position and fixed to the cleat using the pin and safety clips supplied with the RBRACE-END and RBRACE. For braces in the vertical plane the RBRACE-END can be fixed at the higher cleat first and the heavier RBRACE at the lower cleat. For bracing in the horizontal plane the Reidbar may need temporary support while the RBRACE is installed.

7. Once fixed into position the brace may be tensioned by holding the Reidbar close to the RBRACE-END and tightening the nut with a standard ring spanner to the specified torque stated by the designer. In the absence of a specified torque, tension the nut as tight as possible. Lubrication of the thread will allow a higher torque to be achieved.

8. Once the brace is tensioned wind the locking nut against the RBRACE-BANANA END and tighten using a spanner to hold the locking half nut and the nut that tensions the brace. Use maximum force possible when tightening this nut. **The tension spring will be flat when the system is up to specified torque.**

9. The locking tab washer lugs **must be bent back, flat against the sides of the full nut.** Not all lugs will necessary lie perfectly against the sides of the nut but best fit is acceptable.

10. Finally, **the safety clip must be closed** to secure the pin onto the brace end or banana. See FIG 2.

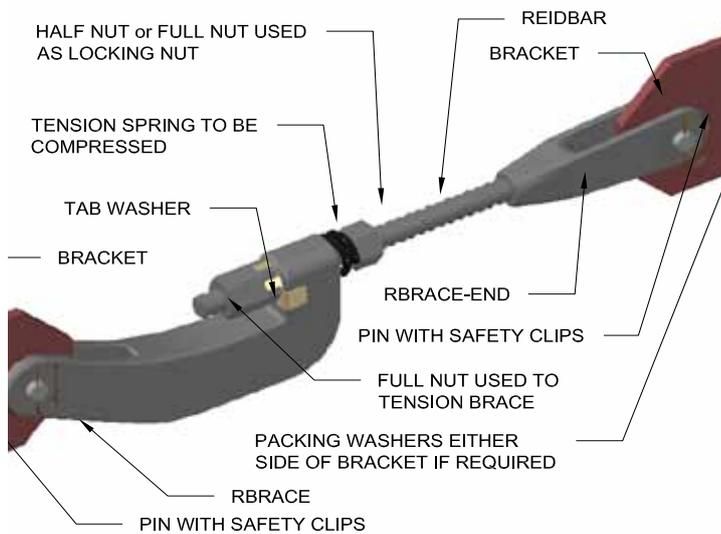


FIG 2: Secure the safety clip as per the diagram.

INSTALLATION NOTES & CHECKLIST

Note¹: Reidbar should be tightened into a fitting by using an appropriate sized spanner or crescent on the flat section of the Reidbar to turn it or to hold the bar against turning while a fitting is screwed onto it. It is important to tighten Reidbar into the RBRACE-END or coupler so that it is against the internal stop of the fitting and sufficient torque applied to preload the thread.

Kits may be supplied with a full nut and a half nut, two full nuts or three half nuts. In all cases the full nut or two half nuts are ALWAYS used to tension the brace and the other nut used to lock tightly against the far face of the RBRACE fitting – see diagram below.



CHECKLIST

- Packing washers at the jaws end for more than 6mm movement.
- Reidbar screwed against stop in RBRACE-END.
- BRACE fully tensioned (no slack).
- Lugs of washer bent back to touch the sides of the full nut.
- Safety clip closed and secure.
- Spring under locking nut is fully compressed.