



LYCOFIT® Tool Operation Manual

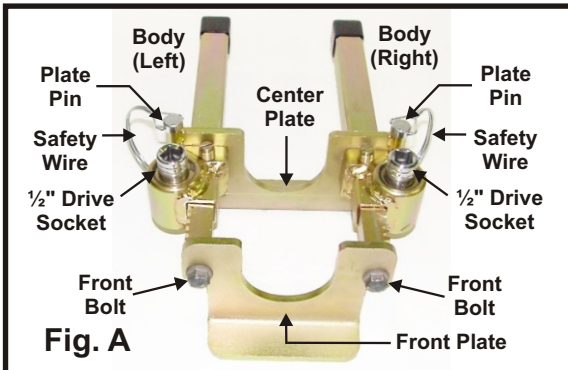
Important

1. Insure gas flow is stopped. Squeeze off PE pipe when using coupling for repair OR line extension to insure gas flow is stopped.
2. **DO NOT** apply lubricants to fitting's spigot or sleeves.
3. LYCOFIT® couplings are designed to be installed on O.D. controlled Polyethylene (PE) pipe only. Examine the size printed on the LYCOFIT® spigot and sleeve(s) as well as the marking on the PE pipe, only install fittings on pipe that match both size and wall thickness/SDR dimensions.
4. Pressure test each fitting after installation to comply with minimum pipeline test requirements as specified in **D.O.T. Title 49, Part 192, Sub Part J-Test Requirements**.
5. The **LycorRing** disposable pipe grip may be damaged if ends are stretched over pipe, always slide **LycorRing** onto pipe. The **LycorRing** is only intended for installing the coupling or fitting it is packaged with, do not reuse the ring for multiple installations.

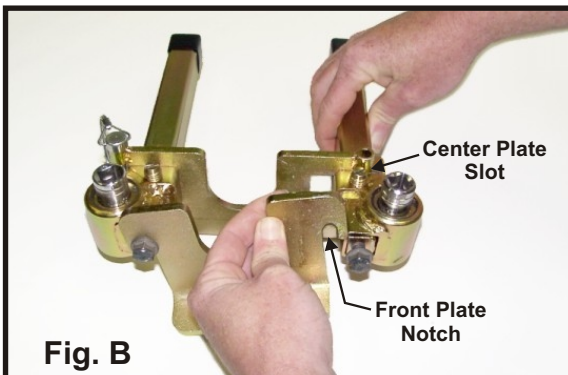
Tool Definition

The QRP-200 Quick Ratchet Press is used for installing LYCOFIT® ½" CTS Through 2" IPS sized couplings, fittings, Tapping Tee outlets, Field assembled Transition Risers, and other Lyall products with LYCOFIT® connections.

The QRP-200 requires two (2) long handled ½" drive ratchets to operate (approx. 16" long).



Note: Position the bend of each plate away from the ratchet sockets (see Fig. A). When the working area is confined, you may want to position the Front Plate so that the bend is pointing inward.



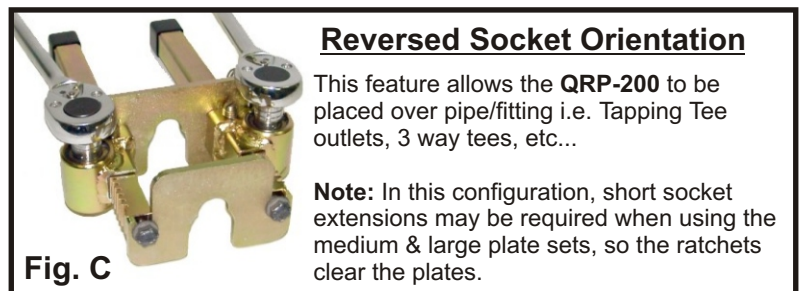
How to Change QRP-200 Plate Sets

A) Disassembly:

1. Using a 9/16" end wrench, loosen both bolts on the Front Plate.
2. Unlatch safety wires and remove both pins from the Center Plate.
3. For one side of the tool, swing the Front Plate upward to remove from the bolt then slide body from the Center Plate.
4. Remove both plates from opposite body.

B) Assembly:

1. Select the appropriate plate set for the fitting size to be installed.
2. Decide on socket orientation to be used, standard or reversed (as shown in Fig. C).
3. Insert the Center Plate into the center slot of either body side. Insert one of the plate pins and close safety wire.
4. Hook Front Plate over the bolt of the same body as you attached the center plate.
5. Slide the other tool body into the opposite side of the Center Plate.
6. Swing Front Plate upward, align body and hook the Front Plate notch over the bolt.
7. Insert the second pin and close safety wire.
8. Making sure that notches on the front plate are fully seated, tighten both front bolts securely.



Reversed Socket Orientation

This feature allows the QRP-200 to be placed over pipe/fitting i.e. Tapping Tee outlets, 3 way tees, etc...

Note: In this configuration, short socket extensions may be required when using the medium & large plate sets, so the ratchets clear the plates.



The QRP-200 is supplied with three (3) plate sets that allow for the following fitting sizes to be installed:

- Small Plate Set: ½" CTS - 1-¼" CTS and ½" IPS - 1" IPS
- Medium Plate Set: 1-¼" IPS - 1-½" IPS
- Large Plate Set: 2" IPS

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How to install LYCOFIT® Couplings USING LYCORING® (Disposable pipe gripping ring)

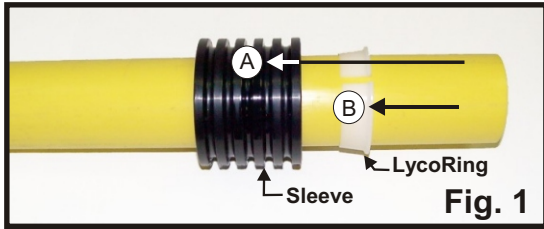


Fig. 1

Step 1 Completion Sleeve Insertion

- A) With the PE pipe reasonably clean, slide the completion sleeve onto PE pipe.
- B) Slide the LycoRing (small diameter first) onto the PE pipe and position to approx. 1/2" further than the length of the fitting's spigot.

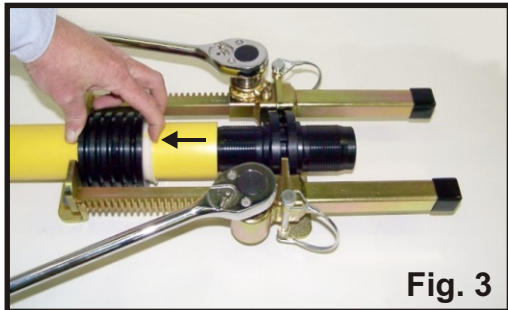


Fig. 3

Step 3 Lock LycoRing Into Position

- A) Pull the completion sleeve and LycoRing (tab or split in ring facing up) back against the tool's plate. The sleeve needs to be over the LycoRing so it starts to grip the pipe.

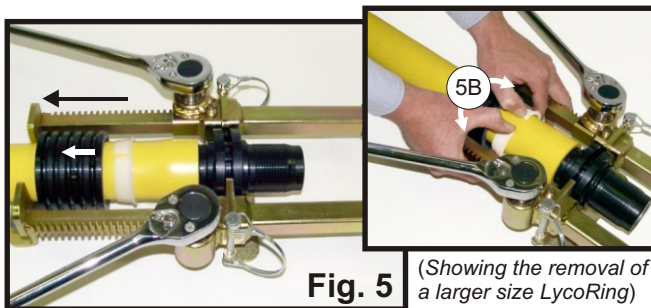


Fig. 5

Step 5 Remove LycoRing From Assembly

- A) Reverse the direction on ratchets and ratchet two or three strokes, pull the sleeve back to expose the LycoRing.
- B) Remove the LycoRing by either pulling on the tab or pushing the slotted side of the LycoRing apart and away from pipe (depending on the size/style of LycoRing used).

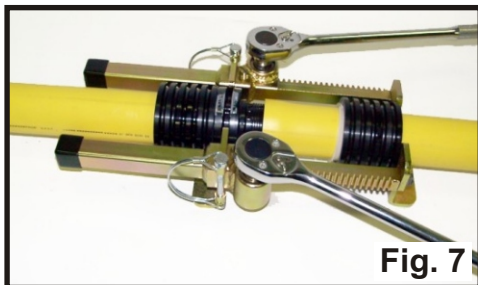


Fig. 7

Step 7 Completing A Coupling

- A) To assemble the opposite side of the coupling, reposition the tool to opposite side and repeat steps 1 through 6 above.

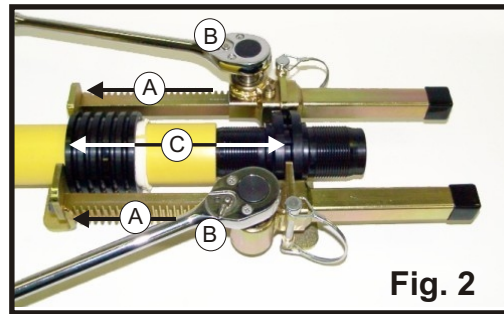


Fig. 2

Step 2 Inserting Fitting Into Tool

- A) Open tool completely.
- B) With ratchets installed, position the tool and ratchets as shown in Fig. 2
- C) Insert spigot into the tool's center plate. Insert PE pipe into tool ensuring that the sleeve/LycoRing are within the tool's plates. Push nose of spigot into end of PE pipe.

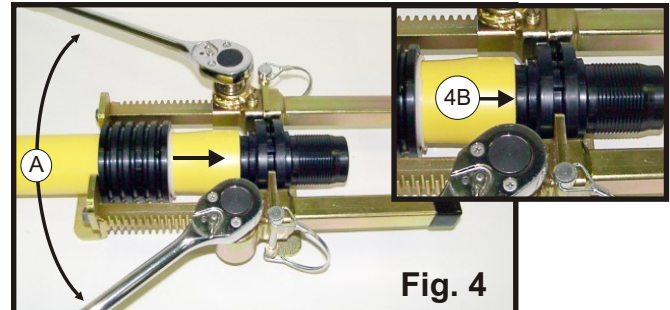


Fig. 4

Step 4 Advancing Pipe Over Spigot

- A) Operate the ratchets to advance pipe over the spigot. **Note:** Keep ratchets parallel with tool. Tool works best when ratchets are only opened approx. 30-45° (1-3 ratchet clicks).
- B) Stop advancement when pipe covers the last barb on spigot (See Fig 4B).

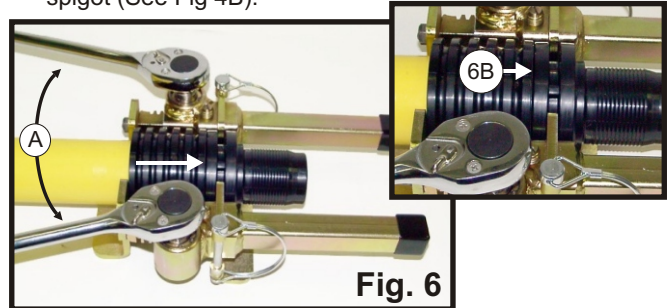


Fig. 6

Step 6 Advancing Sleeve Over Spigot

- A) Reverse the direction of ratchets and advance the completion sleeve over the pipe and spigot by operating the ratchet. Stop sleeve advancement when the sleeve is fully inserted over the spigot (See "B" in Fig. 6)

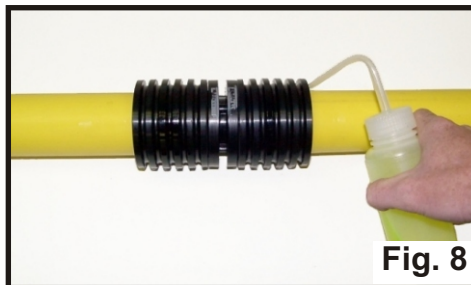


Fig. 8

Step 8 Test Completed Fitting

- Pressure test each fitting after installation to comply with the minimum pipeline test requirements as specified in **D.O.T. Title 49, Part 192, Sub Part J-Test Requirements.**