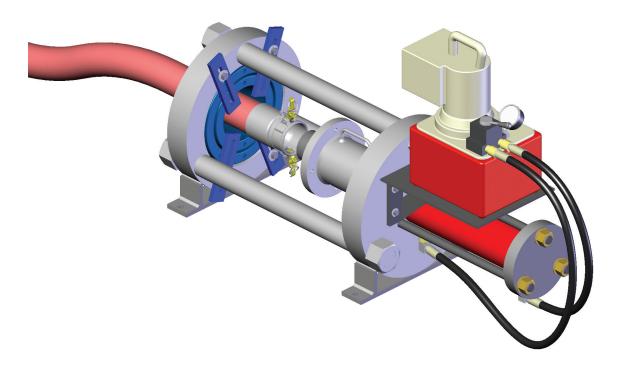


## Section 5

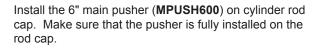
# 50 Ton Ram Operating Instructions for Cam & Groove HoledalI™ Couplings

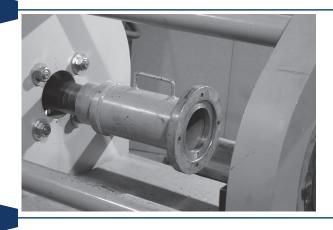


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Install the 4" pusher (50TPUSH400) into the main pusher.

Install the Cam & Groove pusher necessary to do the size and style of coupling to be swaged. Additional pushers may be required. Reference the chart at the end of this section for proper pusher selection.



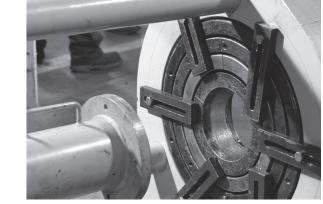


Install the required die holders ensuring that the seams between the die holder halves do not line up. The die holders are designed to fit one inside the other.

A guideline for selecting die holders is: **50TDH6003** 1¼" - 3" I.D. hose **50TDH9004** 4" I.D. hose

Caution! Never use a swaging die as a die holder!





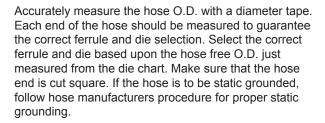
Secure the die holders with tie down bars to prevent the die holders from slipping out of the die bed unexpectedly.

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Align the end of the hose with the stem shoulder, mark

the hose at the end of the stem





Place a mark on the outside of the ferrule that corresponds with the center of one of the turned over sections of the ferrule. This mark will act as a guide for correct engagement with the stem collar.



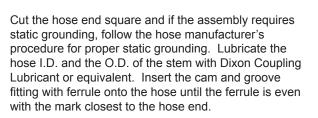
When using the Notched Stem and Ferrule system these guidelines *must* be followed:

- A. Before stem insertion, assemble the ferrule onto the stem by sliding the turned over portion of the ferrule past the notched sections of the stem collar. Rotate the ferrule 90° (1/4 turn).
- B. Before starting the swaging process, make sure that the turned over portion of the ferrule and the collar are fully engaged.
- C. For "C" style couplings (requiring spacer rings), make sure that the two ring halves meet over the turned over portion of the ferrule which should be under the cam arms.



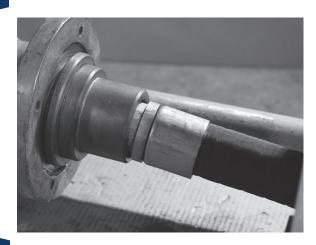
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Bring the hose with the stem and ferrule through the die bed. Insert the coupling into or onto the pusher (depending upon coupling style). Make sure that there is sufficient room between the die holders and the end of the ferrule to comfortably insert the die halves into the die holders.





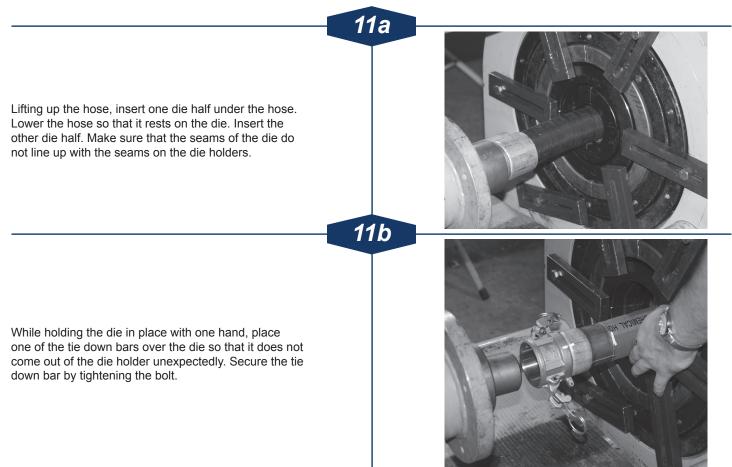


Lubricate the outside of the ferrule with Crisco<sup>®</sup> (recommended) or high viscosity oil or heavy duty grease.

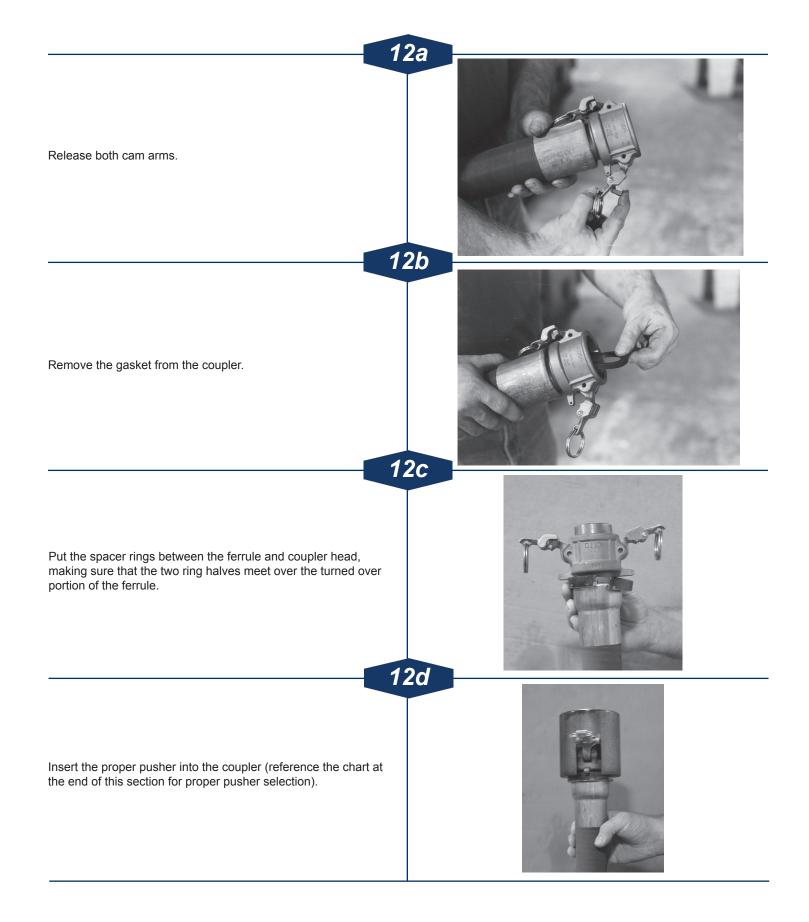


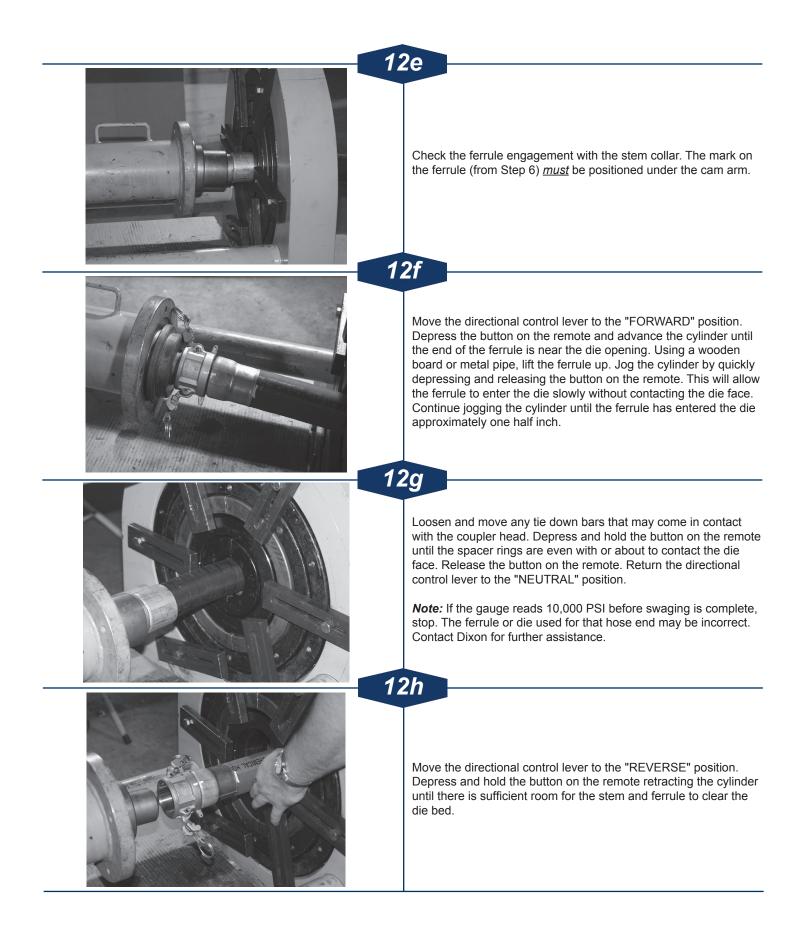


Lubricate the I.D. of both die halves with Crisco<sup>®</sup> (recommended) or high viscosity oil or heavy duty grease.



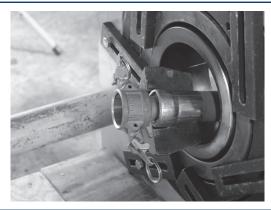
For style "C" couplings go to step 12. For style "E" couplings go to step 13.







Position a rubber sheet or pad under the die bed. While holding the die in place with one hand, loosen the bolt on the tie down bar and move the tie down bar so that it clears the die. <u>Slowly</u> slide the hose towards the pusher. When the die clears the die holder, one or both halves may fall to the floor. If one half remains on the ferrule, tap it with a mallet until it releases. If both halves remain on the ferrule, it may require the halves be pried apart at the seam.

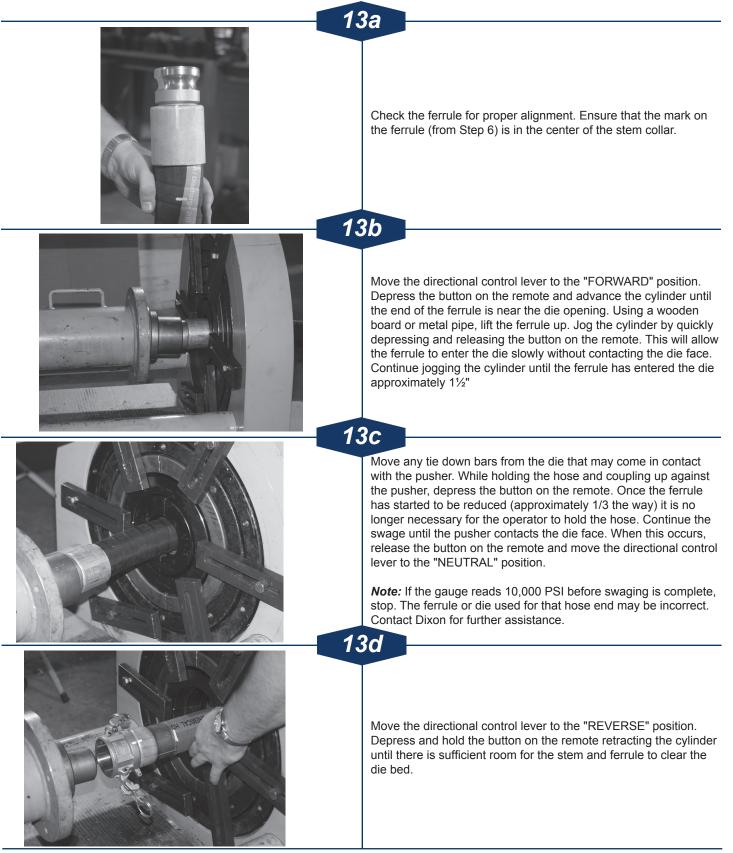




Remove the spacer rings from the coupling. Wipe off excess lubricant from hose and ferrule. Bring the hose with stem and ferrule back through the die bed. Reinstall the gasket. Close the cam arms.

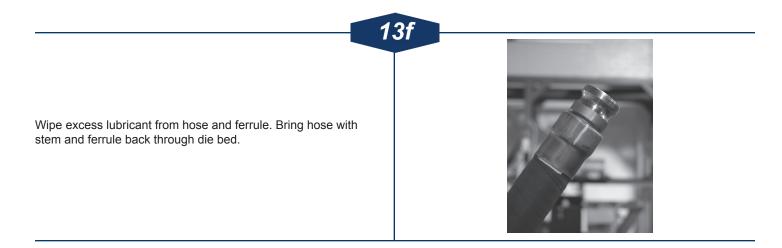
Note: Remove spacer ring from the 11/2" size only.







Position a rubber sheet or pad under the die bed. While holding the die in place with one hand, loosen the bolt on the tie down bar and move the tie down bar so that it clears the die. Slowly slide the hose towards the pusher. When the die clears the die holder, one or both halves may fall to the floor. If one half remains on the ferrule, tap it with a mallet until it releases. If both halves remain on the ferrule, it may require the halves be pried apart at the seam.



### **Pushers and Spacer Rings for Cam and Groove**

Size	Description	Part Number
1"	Type "E" Pusher Type "C" Pusher	RE100PUSH 100PUSHCGRC
11⁄2"	Type "E" Pusher Type "C" Pusher Spacer Ring	100PUSHCG15E 100PUSHCG15 (2 pieces) 150CGSPACE
2"	Type "E" Pusher Type "C" Pusher	100PUSHCG2 100PUSHCG2
3"	Type "E" Pusher Type "C" Pusher	100PUSHCG3 100PUSHCG2
4"	Type "E" Pusher Type "C" Pusher	100PUSHCG4E 100PUSHCG4C

*Note:* Spacer Rings are to be used with Type "C" Couplings ONLY.DO NOT use Spacer Rings with Type "E" Couplings, or bodily injury may result.

Future designs may not require Spacer Rings. Contact Dixon for more information.

Dixon recommends that all hose assemblies be tested as recommended by the Association of Rubber Products Manufacturers.