

KEEP THIS DOCUMENT WITH THE PRODUCT UNTIL IT REACHES THE END USER.

The Housing O-rings and the Ball Socket O-ring can be replaced in the field on these models. All newer model Tripods must be returned to the factory for repair since the male and female ball sockets are pinned, and cannot be field repaired.

Replacement of Ball Socket O-Ring

Field observation of the Tripod Safety Couplers has revealed discoloration and surface imperfections on a few of the 316 stainless steel Ball Sockets. These blemishes only affect the non-critical surfaces exposed to the atmosphere. The surface imperfection will not affect the operation of the Tripod Safety Coupler. The change to the surface finish is caused by atmospheric corrosion on the 0.001 thick surface layer. It will not affect the 316 stainless steel base material of the part.

To remove the discoloration for aesthetics purposes, a fine emery cloth is provided to clean the blemish area only on the Ball Socket, see Figure 2. Do not attempt to remove the black surface on the Ball Sockets. After removing surface rust lightly lubricate the ball with the grease provided.

Replacement of Upper and Lower Housing O-Rings

CAUTION: Before attempting to remove the Female or Male Ball Sockets of either Tripod half, make sure that neither Ball Socket is pinned to its respective Housing with a stainless steel pin. If either Ball Socket is pinned the Tripod must be returned to the Factory for O-Ring replacement. The stainless steel pins are easily recognized on the outside diameter of each Tripod half. See Figures 1 and 2 for locations.

UPPER-HOUSING (REFER TO FIGURE 1 FOR THE FOLLOWING INSTRUCTIONS):

1. Remove the Upper Housing from the riser, and check to see if Ball Socket is pinned.
2. Flip the Upper Housing over and set it on its threaded end. This will prevent the Poppet assembly from falling out during disassembly
3. Using two pipe wrenches hold the Upper Housing with a pipe wrench. Place the second pipe wrench on the Female Ball Socket and turn counterclockwise to remove. Do not remove Poppet.
4. Remove Upper Housing O-ring.
5. Clean O-ring sealing surface on the Upper Housing and ball-socket. Lubricate O-ring with 112 Lube from the repair kit. Place O-ring in Ball Socket groove.
6. If the Poppets are removed during disassembly install Poppet Support in Housing, then install Spring on Poppet stem and insert stem end into Poppet Support.
7. Before replacing the female ball socket, clean the male threads with a wire brush or solvent and wipe or blow dry with air. Apply the loctite thread adhesive provided with the Seal Kit.

CAUTION: Do not allow loctite to contact the Poppet stem or Teflon seat. Allow 30 minutes to dry before placing in service.

8. Put female ball-socket in Upper Housing and tighten firmly with a pipe wrench.
9. Verify that the Poppet works by compressing it a ¼ inch. Then let it spring back and contact the back of the Ball Socket. If the Poppet does not contact the Ball socket verify that the Ball Socket is tight and the Poppet is correctly assembled.
10. Reconnect the Upper Housing to the riser.

LOWER-HOUSING (REFER TO FIGURE 2 FOR THE FOLLOWING INSTRUCTIONS):

CAUTION: Contact with or inhalation of Liquid Anhydrous Ammonia or LP-Gas or their vapors can cause serious injury or death. Dispersement must be in accordance with local regulations.
 For the proper handling and storage of Anhydrous Ammonia refer to ANSI Standard K61.1
 For the proper handling and storage of Liquefied Petroleum Gas refer to NFPA Pamphlet 58.

1. Remove the hose from the Lower Housing, and check to see if the Male Ball Socket is pinned.
2. Set the Lower Housing on the threaded end. Using two pipe wrenches hold the Lower Housing with a pipe wrench. Place the second pipe wrench on the Male Ball Socket and turn counterclockwise to remove. Do not scratch Ball Socket. Also do not remove Poppet.
3. Remove Lower Housing O-ring.
4. Clean O-ring sealing surface on the Lower Housing and Ball Socket. Lubricate O-ring with 112 Lube from the repair kit. Place O-ring in Lower Housing.
5. If the Poppets are removed during disassembly install Poppet Support in Housing, then install Spring on Poppet and insert stem end into Poppet Support. NOTE: Refer to paragraph (7) for application of loctite thread adhesive before proceeding.
6. Put Male Ball Socket in Lower Housing and tighten by hand making sure that O-ring is not pinched.
7. Tighten Ball Socket in to the Lower Housing firmly with a pipe wrench.
8. Verify that the Poppet works by compressing it a ¼ inch. Then let it spring back and contact the back of the Ball Socket. If the Poppet does not contact the Ball socket verify that the Ball Socket is tight and the Poppet is correctly assembled.
9. Reconnect the Lower Housing to the hose.

TRIPOD MODEL	*SEAL KIT NO.	DESCRIPTION	
TP55	TP1-1304	Two (2) P5-087-R0 O-Rings	AND One (1) TP1-2020 Ball Socket O-Ring
TP77	TP2-1304	Two (2) P5-090-R0 O-Rings	AND One (1) TP2-2020 Ball Socket O-Ring
TP126	TP3-1304	Two (2) TP3-2022 O-Rings	AND One (1) TP3-2020 Ball Socket O-Ring
* All Kits Include One (1) Each of the Following: #112 Lube Kit, 6" Strip Emery Cloth and Loctite Thread Adhesive			

