

Thank you for choosing Durashield seals. This document illustrates the assembly or re-building of an HD series seal.

REBUILD & INSTALLATION NOTES: Before proceeding , if possible uninstall the seal from the machine. Having the seal free of the machine will make the rebuilding process a breeze! Be sure to thoroughly clean the housing removing all processed materials, silicone and other particulates. Assembling the seal on a clean surface is crucial for proper operation. Prior to reassembly verify the housing is free of contaminants which can cause premature seal failure. Denatured alcohol is recommended for degreasing the housing/faceplates prior to reinstallation. Surfaces where RTV is to be applied must be degreased to obtain a proper bond. For re-installation apply a bead of Silicone RTV sealant to the seal and machine end. (Silicone RTV is used to create a surface bond between the machine end and seal) Certain applications may require a seal gasket, If so apply RTV to both sides of the gasket, place the gasket between the seal & machine end. Remove all excess RTV Sealant and verify that RTV does not make contact with the internal moving components of the seal. Use of thread locker or anti-seize is not recommended.

For additional assistance visit www.durashieldseals.com or call 1.877.243.7325

REQUIRED TOOLS:

- 3/16" SLOTTED HEAD SCREWDRIVER
- 1/8" ALLEN WRENCH / HEX DRIVER
- Denatured Alcohol
- Silicone RTV Sealant
- Clean towel/paper towels
- Tools for seal housing removal (varies per installation)



PARTS CHECKLIST:

- (1) HD Series Housing
- (2) Stainless Steel Faceplates
- (2) Polished stainless steel wear rings
- (1) EPDM Elastomer Boot
- (1) Elastomer Clamp
- (2) Teflon Wear Plates
- (2) EPDM Shaft wipers (thin gasket)
- 1/8" STAINLESS ALLEN HEAD SCREWS (qty varies per model)

REBUILD KITS INCLUDE:

2 Stainless steel wear rings, 2 Teflon wear plates, 2 EPDM shaft wipers
1 EPDM Elastomer, 1 Elastomer clamp & fasteners.

The Seal Housing & Stainless faceplates are to be cleaned and re-used.

If a new faceplate or housing is required please contact us & be sure to have your seal serial number.



If you require additional assistance with assembly or rebuilding please contact us.

Our support team is available for telephone support Mon-Fri 9:00AM - 4:30PM est. Call toll free 1.877.243.7325

Additional technical illustrations and documents are available at www.durashieldseals.com



STEP 1: Remove the face plate screws using a 1/8" Allen / Hex head wrench. Depending on shaft diameter each seal utilizes a different amount of screws.



STEP 2: With the face plate screws removed you can now remove the outer faceplate. If rebuilding be sure to clean the inside/outside of this plate. Remove any RTV from prior installation. Both faceplates will be reused.



STEP 3: Remove the EPDM shaft wiper. If rebuilding a new wiper is included in the kit.



STEP 4: Remove the Teflon wear ring.



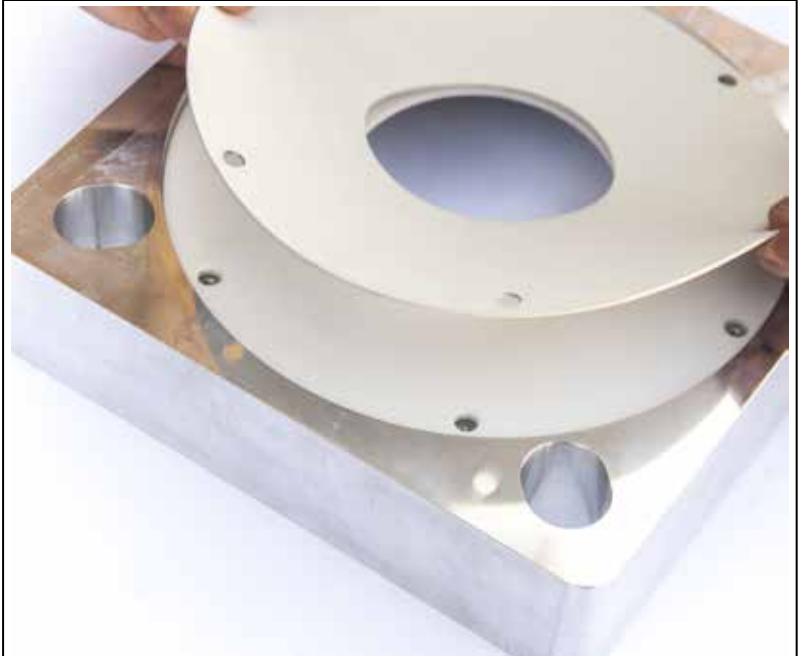
STEP 5: With the Faceplate, Shaft wiper & Teflon wear plate removed the wear ring, elastomer & clamp assembly is accessible. Lift the assembly from the housing. Flip the housing and repeat steps 1-4. Rebuild kits include new rings, elastomer and clamp assembly. Take note of how these parts fit together.



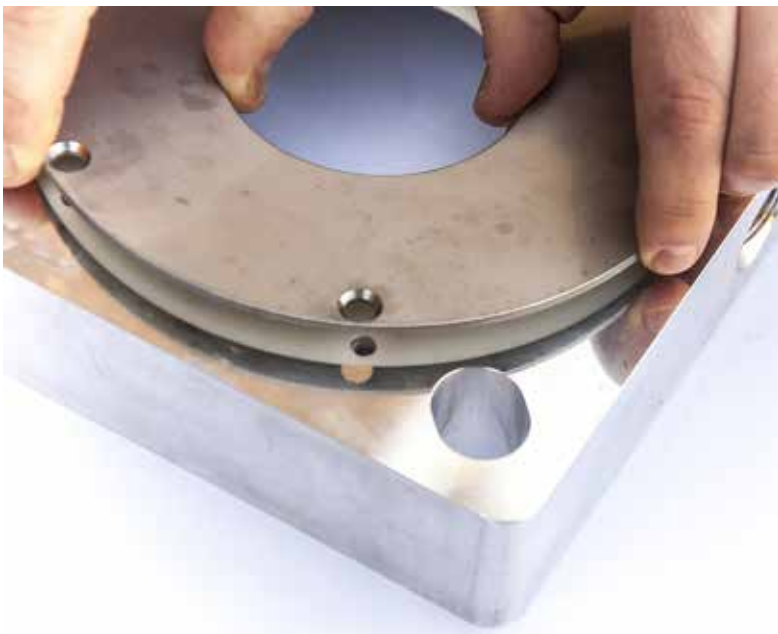
STEP 6: After steps 1-4 have been repeated you should see a bare housing. Be sure to clean this well! Use denatured alcohol or simple green, the flat surfaces which the wear plates rest on should be free of particulates for proper fitment of the new rebuild kit parts.



STEP 7: Install the Teflon wear ring. Align the holes with the threaded housing faceplate mounting holes.



STEP 8: Place the EPDM Shaft wiper / gasket over the Teflon plate. Make certain the mounting holes line up.



STEP 9: Install the Faceplate. Make sure the counter sunk holes face outward, maintain proper alignment of the faceplate to the mounting holes.



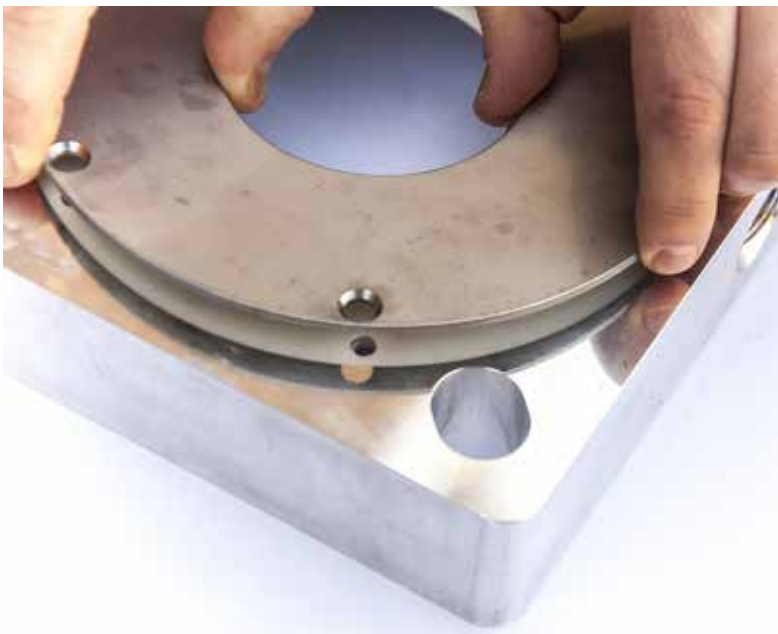
STEP 10: Reinstall the face plate screws. Make them snug but be careful to not over tighten them.



STEP 11: Flip the assembly over. Place a new wear ring polished side down to the Teflon wear plate. Place the elastomer into the wear ring, make sure the screw of the elastomer clamp lines up with the adjustment port as shown.



STEP 12: Place the remaining Stainless Steel wear ring onto the elastomer. Before proceeding check the fitment of the rings to the elastomer, each ring has a lip and the elastomer fits inside the lip.



STEP 13: Repeat steps 7-9: install the Teflon wear plate, EPDM shaft wiper & the outer faceplate. Verify the counter sunk holes on the faceplate are face up. Verify proper alignment of the Faceplate, Wiper & Teflon align with the threaded mounting holes on the housing.



STEP 14: Place the faceplate screws into the mounting holes. With the elastomer/ring assembly inside the seal you will need to apply downward pressure against the faceplate to reinstall it. Use the North/South/East/West method when tightening the screws. **Do not over tighten or use thread locker on the mounting screws.**



STEP 15: The elastomer adjustment port will require reinstallation after the seal has been reinstalled, adjust the elastomer 1/4 to 1/2 turn, snug against the shaft. Do not over tighten the clamp!



The HD series seal is now complete and ready for installation. For additional information please visit www.durashieldseals.com or call 1.877.243.7325