

Blue Max / Heavy Duty - Seal Kit Removal and Installation Guide

It is recommended that the floatation sub be fully disassembled and all parts cleaned before removing the old seals. This way a full inspection of all parts can be made to insure that there are no parts that need to be replaced. This is a good practice and will go a long way in the continued safe operation of your sub.

For ease in removing the old seals it is suggested that a seal pick set be on hand. If this is not available a small screw driver can be used as a substitute.

With the bores facing up drive a straight pick through the old lip seal (Poly Pac Seal) and pry it out of the groove. The "O" rings and wear bands can be removed using the pick and simply prying them out of their grooves.

After all of the seals and wear bands are removed be sure to clean out the grooves removing any dirt or grit. Before installing the new seals, "O" rings, and wear bands, coat the inside of all the grooves with grease (Pyro Plex Blue or equivalent). "O" rings and wear bands can be installed using nothing more than your hands. Note: For the Max series subs it is necessary to "flex open" the small air tube wear bands, ensuring they remain open once installed in their groove. This way it will not impede the insertion of the air tube when reassembling the sub.

When installing the lip (Poly Pac) seals, it is strongly suggested that a seal insertion tool (Seal Twister) or equivalent be used. Installing these seals by hand can be difficult at best and can result in damage to the seal. These tools are available from Heisey Machine.

Again, with the bores facing up, place the seals on a flat surface with lip down and numbers up. Use the seal tool to fold the seal into itself. With the seal still folded (twisted) in the tool, insert it into the bore and release it into the groove. It will be necessary to guide it into the groove with your fingers. You must make certain that the seal is seated properly in its groove or damage may occur when reassembling the unit.

Note: When changing the seals you should always turn the center section over when reassembling to assure even wear and longer life.

With all of the seals and bands installed coat all internal surfaces with grease (Pyro Plex Blue or equivalent). Also make certain all spline surfaces are fully coated. To ease the reassembly a spray of lite oil on the air tube will help it to slide into the new seals and bands. This should

take only moderate force. Note: Be certain that the small air tube wear band is seated properly. It should "Not" take "Excessive force" to insert air tube!

When possible the end with the air tube retaining plate should be bolted up first. It is recommended that red Loctite (# 271 or equivalent) be used and bolts torqued to 175 foot lbs. Next, push the rubber bumper over the air tube and into the center section. If your unit is set up for "Shock" and has more than one bumper they should all be installed now.

With the bumpers in place, the end with the male spline can be inserted into the center section, making certain that it is straight and that the splines aligned.

Once again, this should only take moderate pressure (Do Not Force). The cap ring can now be slipped over the neck. It may be necessary to tap this ring on far enough for the bolts to grab.

In some models with larger tool joints this ring maybe in two pieces. In this case stretch "O" ring and band over tool joint and onto the neck. Bring the two halves of the ring together fitting the "O" ring and band into their appropriate grooves. Slide the rings into the end of the center section; install bolts, Loctite, and torque to 175 foot lbs.

After assembly, with the sub in the extended position, 3 to 4 pumps of grease should be put into each zirk. Do not over grease, as excess grease can be forced out when unit is compressed.

Maintaining the Life of Your Floating Sub

All float subs include a 1 year Warranty:

- Warranty is 1 year at percentage of use minus the cost from date of sale.
Warranty will be at the discretion of the Manufacturer

A parts list is provided along with the warranty for maintaining the life of your sub so that you may replace worn or damaged parts instead of the entire unit.

Seal Kits are available upon order for replacement throughout the life of your floating sub. This is an economical way to keep your floating sub in the best working order.

Lubrication Instructions may vary depending on how you are using your float sub or the style of float sub you have purchased:

- For best results use Castrol Pyply Blue #2
- Unit should be greased daily or every 8 to 10 hours of continuous use.
- Only grease in extended position – 1 to 2 pumps each zerk.
- Do not over grease as excess grease may be expelled from unit during operation.

When your sub is set up for "SHOCK ONLY" with Multiple Bumpers as is for most Quarry use – Greasing should be decreased dramatically. Greasing can be reduced as much as 90% compared to when in use as a floating sub.

"Important Lubrication Notes":

- Greasing is always proportionate to use, adjust as needed.
- Unit is greased and air tested at assembly, prior to shipping.

OUR ADVANTAGES ARE CLEAR

We have been designing and manufacturing floating subs for almost 35 years. Our constant desire to improve our products means that each year as technologies & Manufacturing processes change and improve we also change and improve. This makes certain we are providing the best product we can!

WE OFFER SIGNIFICANT ADVANTAGES OVER TRADITIONAL FLOATING SUBS

- 1 . Poly-Pak Seals.
 - 2 . Buna-N Wiper material
 - 3 . Air testing upon assembling
 - 4 . Superior quality grease
- Optional:
- 5 . We offer 1" - 4" of float

PLEASE REFERENCE THESE NUMBERS WHEN ORDERING PARTS:

MODEL# **HDBMFS3PF03**

SERIAL# HC870-0618

PART #'S

HDBMFSB3SRP (PIN BOTTOM)

HDFSAT2/3 (AIR TUBE)

HDCRS (SPLIT RING)

HDCS03 (CENTER SECTION)

HDBMFFT (Flange Top)

FSS12P3401 (BOLTS)

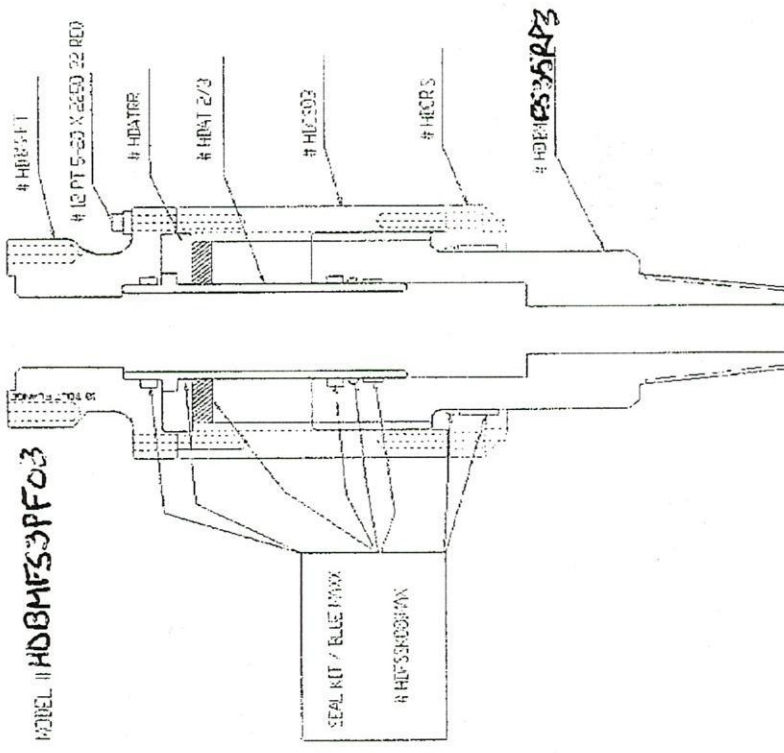
FSSK001MAX (SEAL KIT)

HDFSATRR2/3 (RETAINING RING)

SEAL KIT CONTAINS

- (1)-WEAR BAND
- (1)-WIPER O-RING
- (2)-POLY PAC SEALS
- (2)-O-RING SEALS
- (1)-NEOPRENE BUMPER

(SEAL KIT CONTAINS EXTRA PARTS NOT USED IN EVERY MODEL.)



DRAWING IS AN APPROXIMATION