

Model 40 Barracuda

2 1/2" – 8"

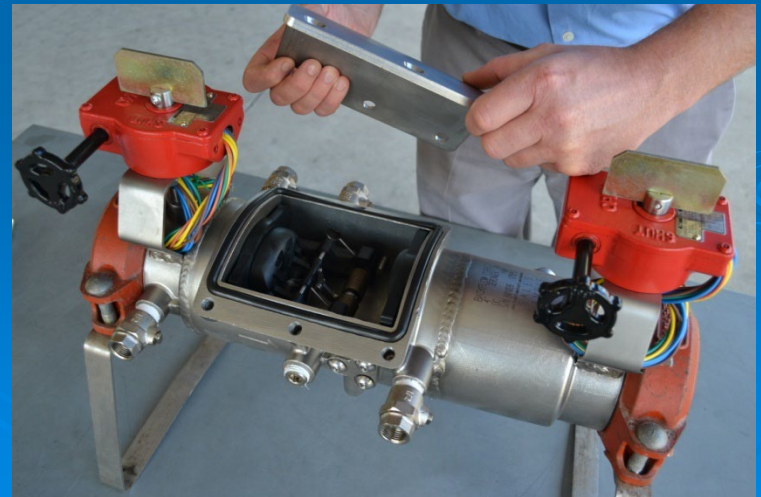
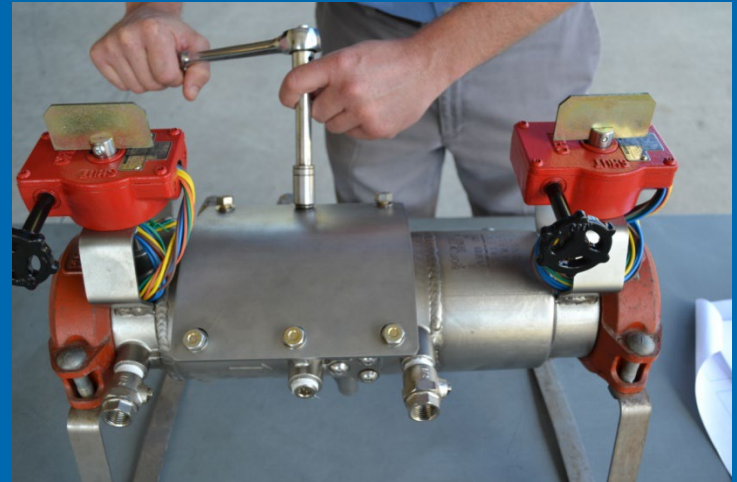


Product Overview

- Production of the Model 40 (Barracuda) began in 2018.
- The “X” series come in 6” sizes only. This indicates internal check valves that are larger than line size. For example 6” uses 8” parts.

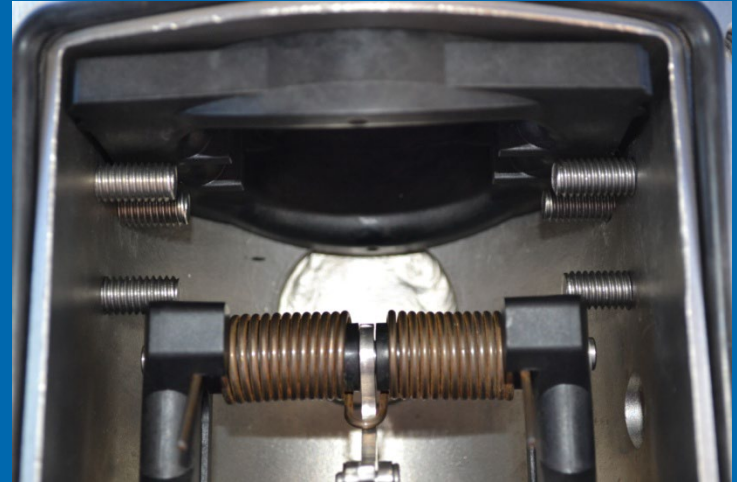
Single Access Cover Removal

- The access cover is secured by bolts and o-ring sealed.
- There is no spring load on the cover.
- Remove bolts and tapered washers.



Check Valve Removal

- Modules are o-ring sealed and secured by retaining bolts located on the outside of the valve body.
- 2"- 4" sizes: Loosen the six 7/32" allen bolts until they are flush with the inner wall of the body.
- 6"-8" Sizes: Loosen the six retaining bolts.



Check Valve Removal

- Modules are o-ring sealed.
- Remove check 1 first, then check 2.
- Using a flat blade screwdriver, gently pry the module out of the body.



Check Disc Replacement

- Remove 4 tower screws on the front or back of the check module.

*** The torsion spring is captured and does not need to be retained.

- Remove the tower from the check seat.
- Remove retaining screws from the disc retainer.



Check Seat Service

- The check seat is part of the module.
- If seat is damaged, the entire module will have to be replaced.



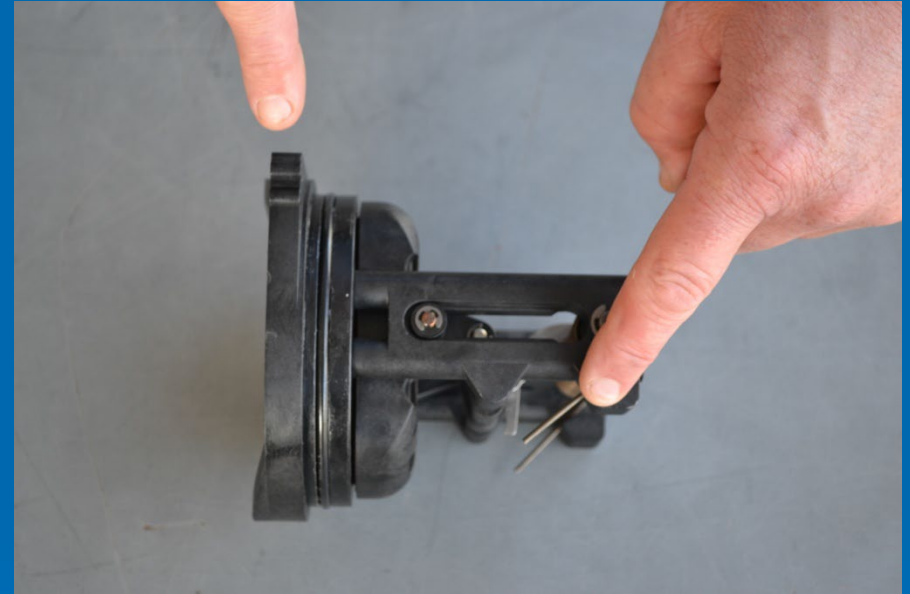
First Check Valve Reassembly

- Note: Proper orientation of the tower and seat is critical for *First* check operation.
- Re-attach the tower to the seat with the spring arms and seat protrusions facing UP.



Second Check Valve Reassembly

- Note: Proper orientation of the tower and seat is critical for *Second* check operation.
- Re-attach the tower to the seat with the spring arms facing DOWN and seat protrusions facing UP.



Second Check Installation

Note: check 2 must be installed before check 1.

- Insert check 2 into body with tower pointing downstream.
- Push check into place until o-ring is fully seated.



*** Do not tighten retaining screws until check 1 is installed.

First Check Installation

Note: check 2 must be installed before check 1.

- Insert check 1 into body with tower pointing down stream.
- Push check into place until o-ring is fully seated.



Check Valve Reassembly Notes

- Once check 1 and check 2 are fully seated, tighten the 6 retaining bolts on the outside of the body.

*** Make sure that the retaining bolts do not bind against the check valves.



Access Cover Reassembly

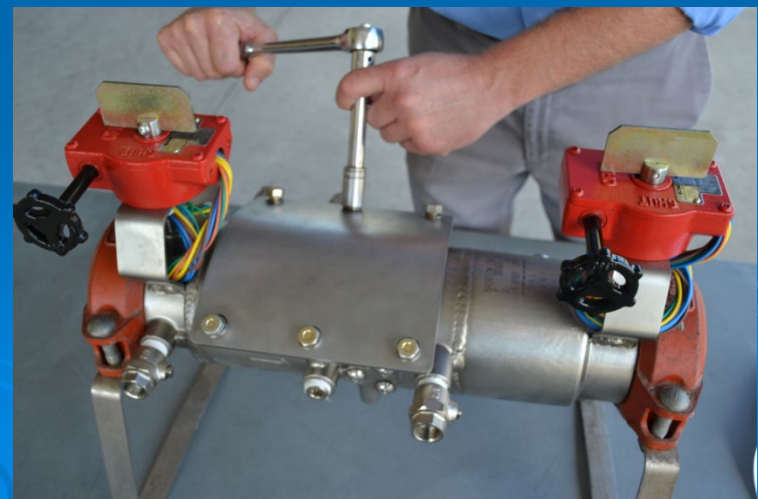
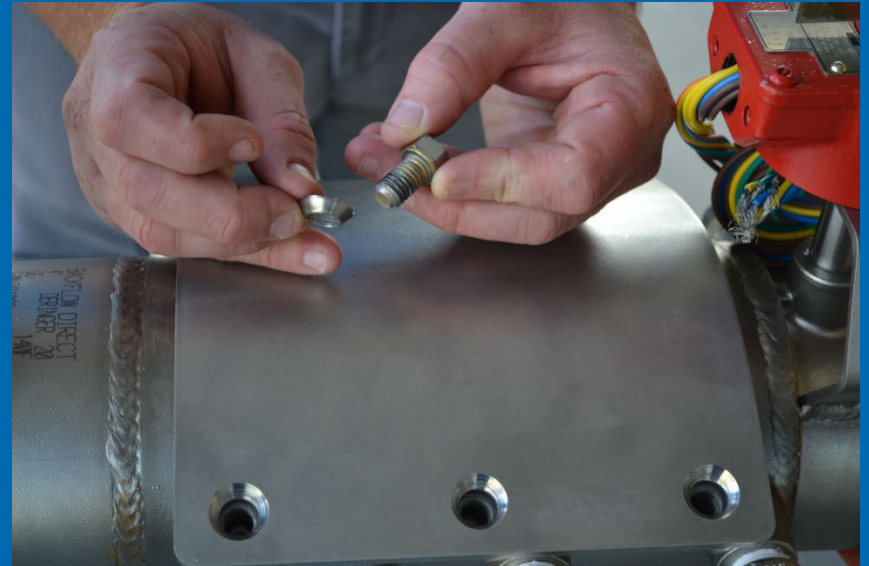
- Place the access cover on the main body.

*** Make sure cover o-ring maintains the correct position.

- Insert cover bolts and tapered washers.

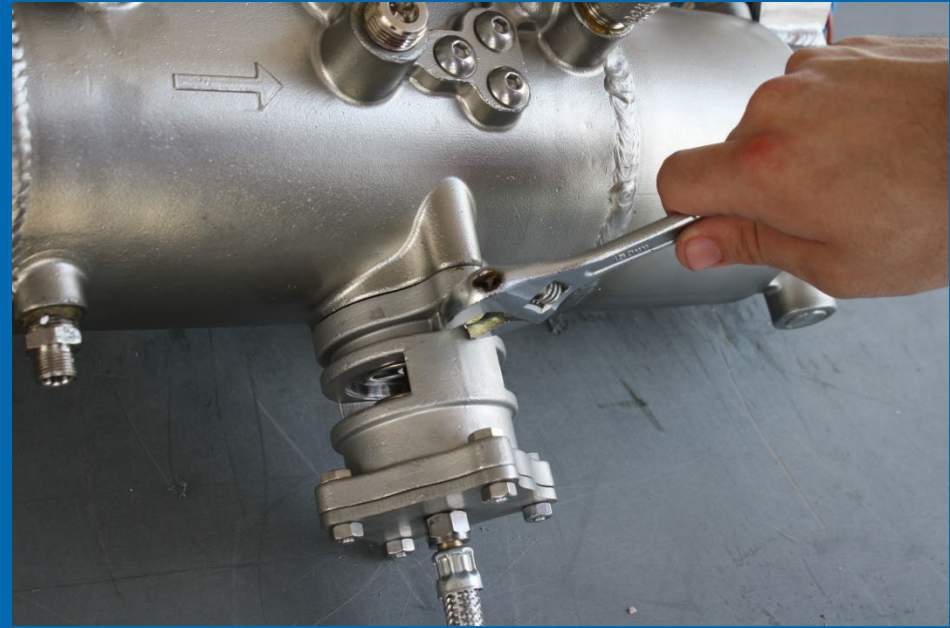
*** Tapered washers are necessary for water tight seal.

- Tighten the cover bolts sequentially and by alternating from side to side.



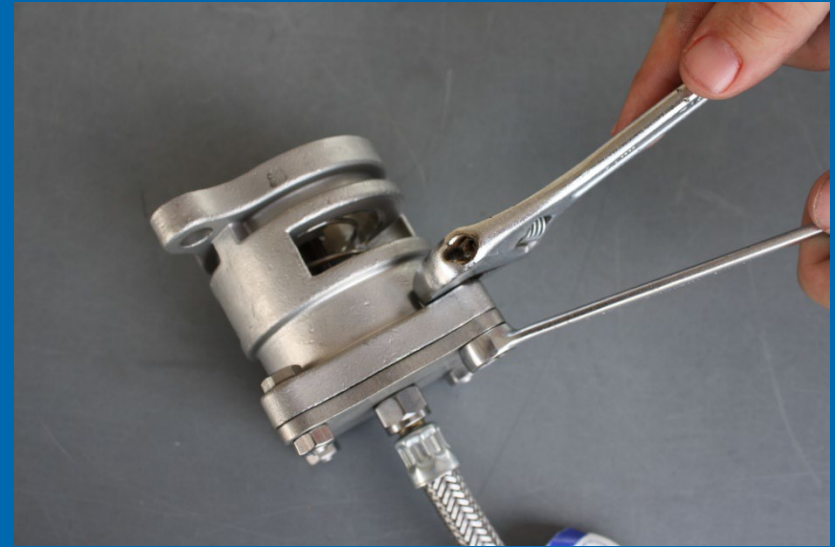
Relief Valve Removal

- Relief valve is bolted onto body and o-ring sealed.
- Disconnect sensing line hose.



RV Disassembly

- Remove the 4 cover plate bolts.
- There is no spring load.
- Remove the diaphragm.



RV Disassembly

- With the threaded end facing up, push the piston until the shaft with the attached E-clip is exposed.
- Remove the E-clip.
- Hold piston firmly as spring tension is released.



RV Disc Replacement

- The RV disc is molded onto the disc holder and must be replaced as one piece.



RV Seat Service

- The RV seat is a machined part of the RV housing.
- To replace the seat, you must replace the housing.



RV Diaphragm Replacement

- Reassemble relief valve in reverse order
- Form the diaphragm to fit over the disc holder.
- Reinstall the diaphragm into the body.



RV Reassembly Notes

- Lubricate the RV body o-ring.
- Reattach the complete RV to the assembly body.

