

860
2 1/2" - 10"



American Backflow
Products Company



Modification Overview

Production of the 2 ½” - 10 sizes began in 1993.

Lead free version (LF860) was introduced in 2011.

Parts do not interchange with original versions.

Check Cover Removal

Cover is bolted and o-ring sealed.

There is a slight spring load on cover.



Disassemble Spring Module

The spring module is held in position by the cover.

Spring module is captured.

Remove the retaining clip and hinge pin from the arm assembly.



Check Disc Replacement

The check disc is a vulcanized clapper plate.

Remove jam nut and washer from the back of the disc plate.

When jam nut is tight, check disc is designed to “wobble”.



Check Seat Removal

The seat and arm must be removed as one piece.

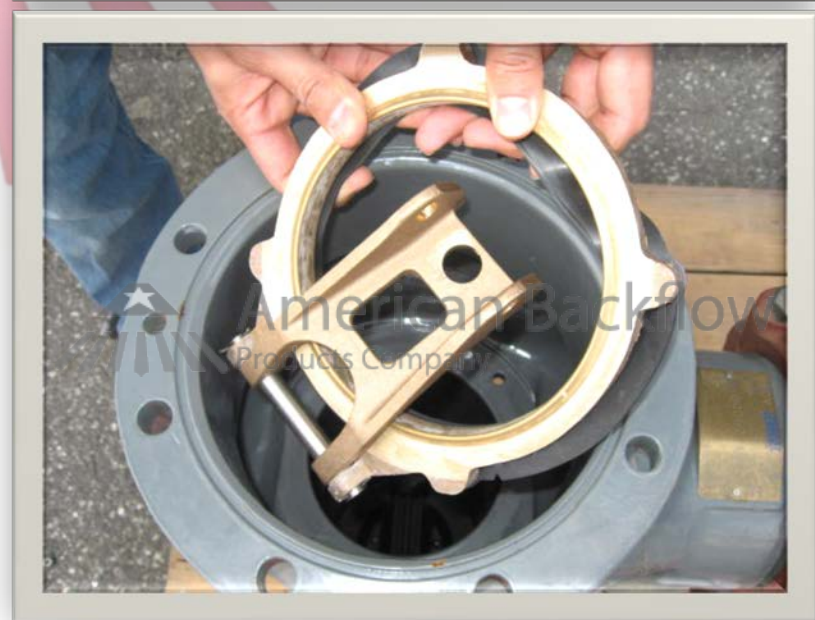
The seat and arm assembly is bolted “**through**” the body and sealed by a gasket.



Check Seat Removal

Locate and remove the four lock nuts on the “**outside**” of the body.

Pull the seat and arm assembly straight out of the body.



Disassemble Seat Assembly

Remove retaining clip and hinge pin from arm assembly.

Inspect bushings and hinge pins for wear.



Check Valve Reassembly Notes

Reassemble in reverse order.

The seat assembly, disc plate, and spring module can be assembled together and placed into the body as one component.

The seat ring will only fit into body one way, check the alignment of gasket and studs.



Check Valve Reassembly Notes

The spring module is positioned by the cover.

Make sure the pivot bearing is resting in the pivot socket on the cover.



RV Cover Removal

Remove external sensing line.

RV cover is sealed by the diaphragm.

No spring load on cover.

Remove outer diaphragm.



RV Module Removal

Module is o-ring sealed.

Pull module straight out of body.

Grasp the module (button) with one hand and insert fingers (other hand) into RV port and apply force to the seat disc.

Do not twist module.



RV Seat Removal

RV seat is mounted between the RV housing and the RV adapter.

Remove the 4 bolts on the adapter and remove housing.

Seat is o-ring sealed.

Pull the seat straight out.



Disassemble RV Module

Place the module on a flat surface with lower guide facing up.

Hold the main stem with one hand and unscrew the lower guide.



Disassemble RV Module

With lower guide removed, place the module upside down on a clean surface.

Remove center of protective sticker (Save).

Hold the button firmly and loosen screw.

Button is spring loaded.



Disassemble RV Module

Remove main stem
and unthread the
retainer.

Remove slip ring and
inner diaphragm.



Inner Diaphragm Replacement

Position the bead of the inner diaphragm into the groove of the upper guide.

Place slip ring over the diaphragm.

Thread retainer ring onto upper guide hand tight.



Main Stem Replacement

Push the inner diaphragm back through the upper guide assembly.

Insert main stem inside diaphragm.

The screw hole on diaphragm and main stem should be lined up.



Spring / Button Replacement

Position flow washer on diaphragm with the cross channels facing up.

Place the spring over the upper guide.

Place button on spring and hold down firmly.

Replace flow screw.

Reposition center label piece.



RV Disc Replacement

Replace the RV disc in main stem.

Replace the lower stem guide.

Replace and lubricate o-ring on main guide



RV Reassembly Notes

Reassemble RV in reverse order.

Push the RV module straight into body. Do not twist.

Replace outer diaphragm with fabric side against button.

Work the rolled edge into the space between the module and body.

