



INSTALLATION INSTRUCTIONS FOR BOVHKITCSM05

Upon receiving the Safeguard BOV Operating System kit (BOVHKITCSM05), inspect to make sure it has not been damaged in shipment and that all items listed in the parts list are present and accounted for.

1. Make sure the bottom outlet valve is in the closed position.
2. Insert the Spring inside the BOV Adapter and secure everything to bottom outlet valve stem with a Hex Bolt 7/16"-20 x 2 1/2" (see Fig. 1).
NOTE: When inserting the Hex Bolt 7/16"-20 x 2 1/2" into the BOV stem hole, make sure to apply a small amount of Loctite onto threading.
3. Weld the Locking Bracket to the BOV stem side of the skid. Position the Locking Bracket so that the threaded stud is centered and engaged with the BOV Adapter ring slot (see Fig. 2 & 3). When properly engaged the Locking Bracket threaded stud end should be flush with the outside adapter ring face.

Fig. 1

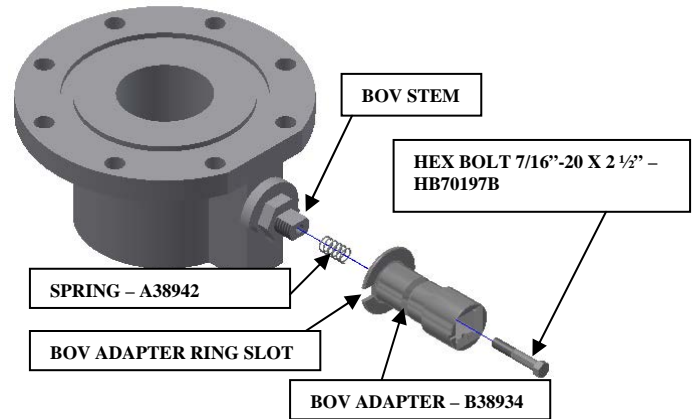


Fig. 2

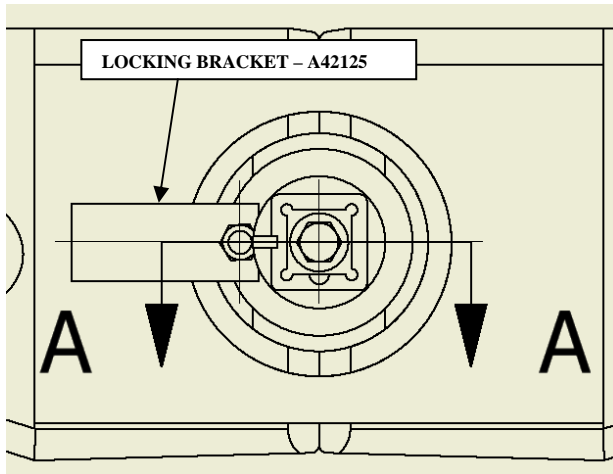
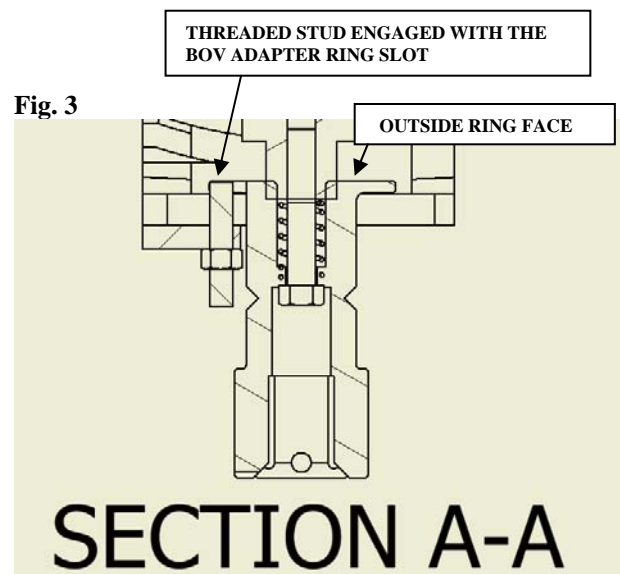


Fig. 3



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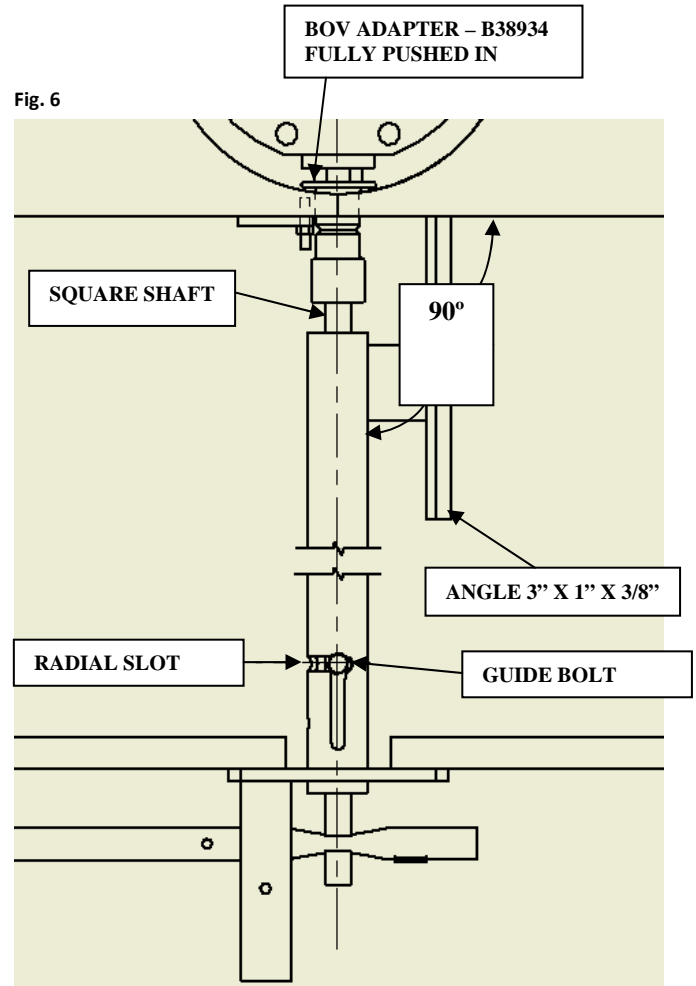
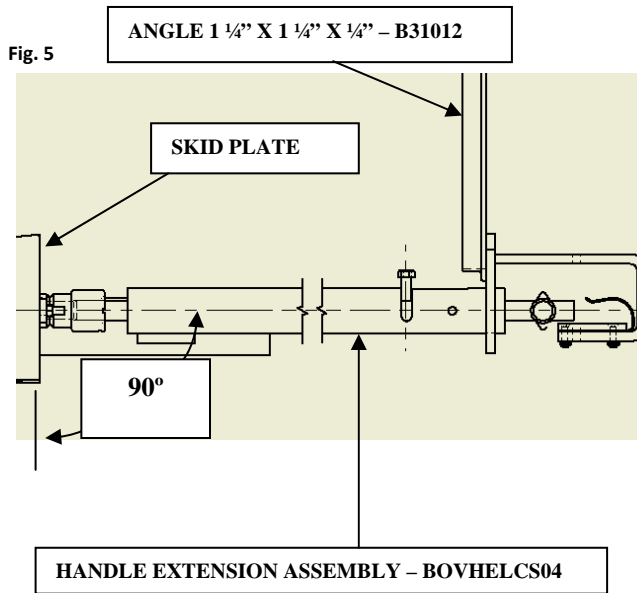
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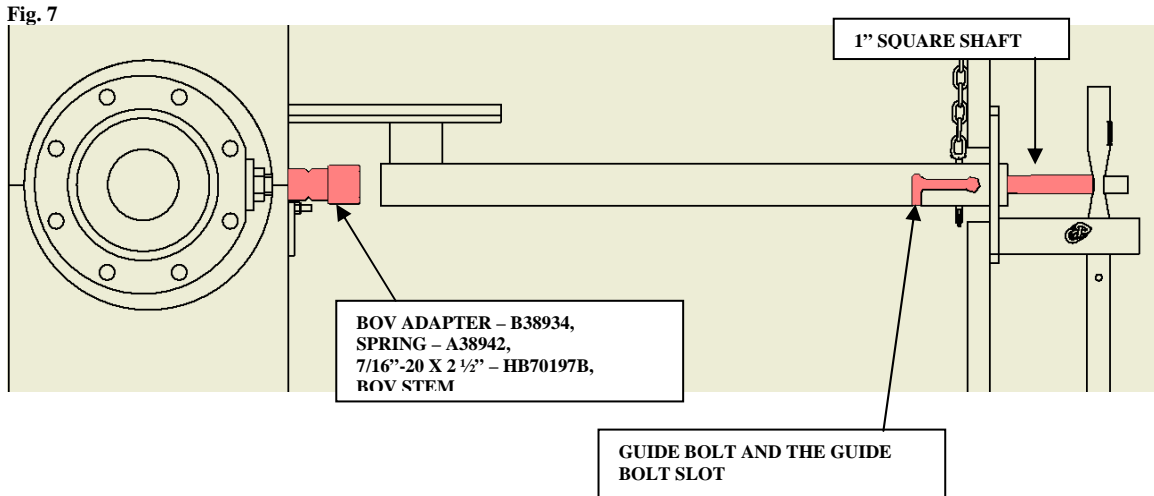
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4. Using a lift table or other type of adjustable lift support, position the Handle Extension Assembly so the square shaft is in line with the BOV Adapter. Remove safety pins and fully engage and push in the BOV Adapter with the square shaft. Make sure the guide bolt is in line with the radial slot (see Fig. 5 & 6).
CAUTION: The Spring inside the adapter will push the BOV Adapter back so a constant pressure on the handle will have to be maintained.
 5. Tack weld the Angle 3" x 1" x 3/8" to the side of the skid plate (see Fig. 5 & 6).
 6. Tack weld the Handle Extension Assembly to Angle 3" x 1" x 3/8" (see Fig. 5 & 6).
 7. Tack weld the two Angle Irons 1 1/4" x 1 1/4" x 1/4" to Handle Extension Assembly and to the tank or jacket pads (see dwg BOVHKITCSM05).
 8. Cycle the Safeguard BOV Operating System BOVHKITCSM05 a few times to make sure everything works properly. **The shaft's linear alignment with the BOV stem should be within +/-1/16" in either the vertical or horizontal direction. This can also be verified with the Salco Go-No-Go gauge. Contact Salco Products for more information.**
 9. Apply full size welds to all connection points where welding is required.
- NOTE: All tack and full size welds are to be done per installer's weld procedure.**



10. Unless otherwise noted, all components and areas highlighted in Fig. 7 must **NOT** be painted and should be mask taped.



PARTS LIST:

1-HANDLE EXTENSION ASSY. (BOVHELCS04)	1 – BOV ADAPTER (B38934)	1 – SPRING (A38942)
		
1 – HEX BOLT 7/16”-20 X 2 1/2” – (HB70197)	1 – LOCKING BRACKET (A42125)	1 – BOV DECAL (DBOV2224V02) (NOT SHOWN)
		
2 – ANGLE 1 1/4” X 1 1/4” X 1/4” (B31012)	1 – ANGLE 3” X 1” X 3/8”	
		

TOOLS REQUIRED:

- 4” - 6” c-clamp (3 pcs.) or 4” - 6” locking c-clamp (3 pcs.).
- 16” or larger size channellock pliers.
- Hammer.
- 5/16” punch.
- Marker.
- Small size level and square.
- Tape measure.



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