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1. Preparations for Adjustment of ABH

Clean exterior of Adjustable Bend Housing before clamping, so markings are clearly visible.

Clamp indicated areas of Adjustable Bend Housing.

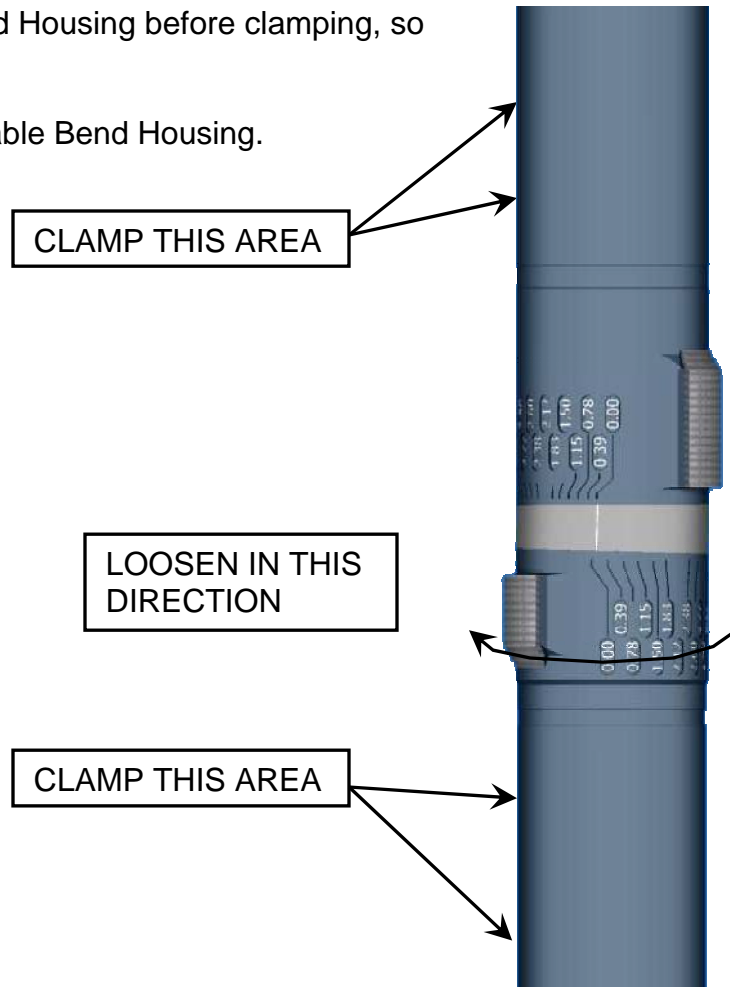


Figure 1: Adjustable bend housing set at a bend of 0 degrees.

2. Directions to Adjust ABH Angle

1. Rotate Lower Adjustable Bend Housing and Bearing Section 6 - 8 full rotations. The Shoulder will be separated by 0.75 to 1.00 inch. See Figure 2A

NOTE: THIS IS A RIGHT HAND THREAD

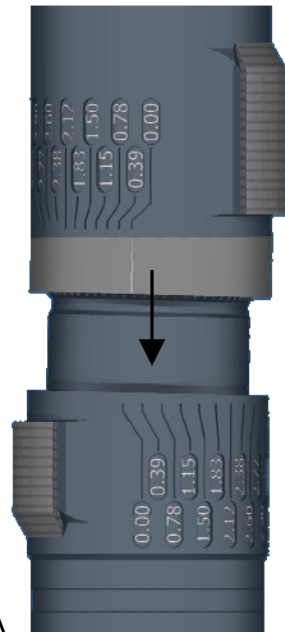


FIG 2A

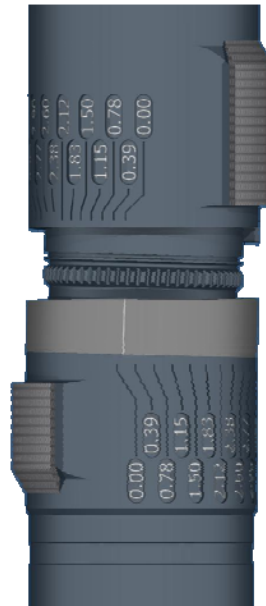


FIG 2B

Figure 2: A) Lower housing separated from spacer ring, initial setting of 0 degrees. B) Spacer ring separated from lower housing, ready for adjustment to new setting.

2. Pull Spacer/Adjustment Ring down towards lower Adjustable Bend Housing. As seen in Figure 2B
3. Clean all mud and dirt off Upper Housing to Spacer shoulder area including o-ring, if visible.

4. Coat the area from the Spacer Ring to Upper Bearing Housing shoulder with thread anti-seize compound. See Figure 3
5. Rotate Spacer until the desired angle markings line up. See Table 1 for possible settings

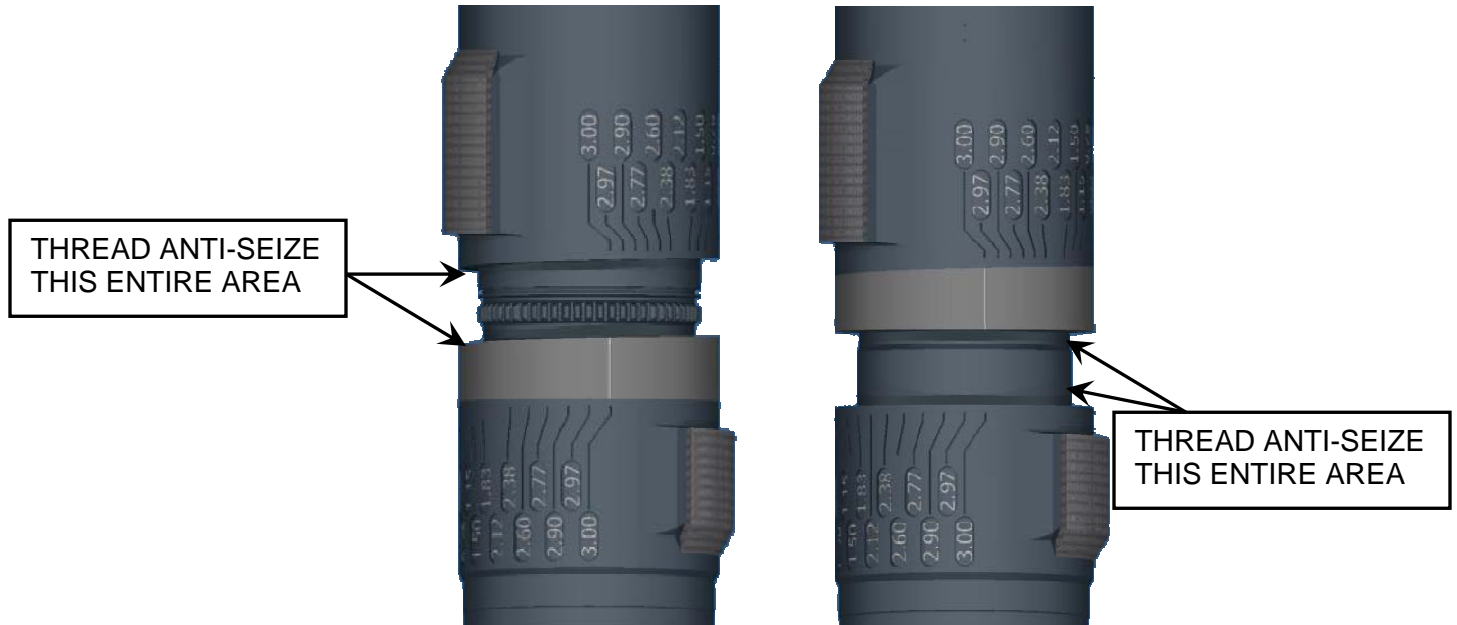
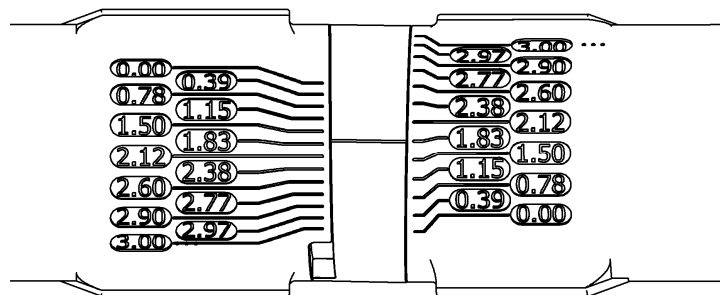


Figure 3: A) Spacer ring ready for engagement at 3 degrees. B) Spacer ring engaged at 3 degrees

6. Lift Spacer toward Upper ABH, engaging internal spline.
7. Coat Spacer Ring to Lower Housing Shoulder with thread anti-seize compound. See Figure 3B.
8. Tighten ABH until angle setting adjustment marks are aligned. Torque values have been verified in the shop.



3. Settings of Adjustable Bend Housing

3 DEGREE
0.00
0.39
0.78
1.15
1.50
1.83
2.12
2.38
2.60
2.77
2.90
2.97
3.00

Table 1: ABH settings

4. Make-up Torques

MOTOR SIZE	MAKE-UP TORQUE RANGE (FT-LBS)	MAKE-UP TORQUE RANGE (Nm)
475	7,000 – 13,000	9,500 – 17,700
625	21,000 – 26,000	28,000 – 35,000
675	25,500 – 33,000	34,600 – 44,800
800	40,000 – 52,000	54,000 – 70,000
962	56,000 – 69,000	76,000 – 93,000

Table 2: ABH make-up torques