

**ADJUSTABLE HOUSING
OPERATING INSTRUCTIONS**

These operating instructions apply to 2 degree, 3 degree and 4 degree adjustable housings.

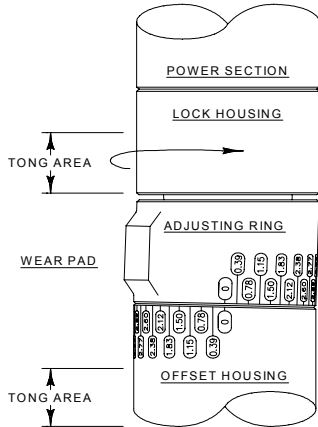


FIGURE 1

- * Break joint with tongs on tong areas.
- * Keep adjusting ring engaged with offset housing and back off lock housing 2 turns.

NOTE: Teeth must stay engaged during the back off procedure.

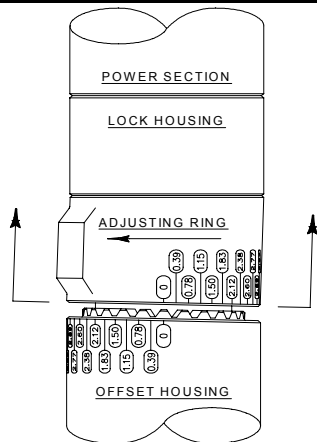


FIGURE 2

- * Slide the adjusting ring up to disengage teeth.
- * To adjust bend angle, rotate adjusting ring clockwise until the required angle marked on the adjusting ring and offset housing match.

NOTE: Do not rotate counterclockwise beyond the 0 degree setting.

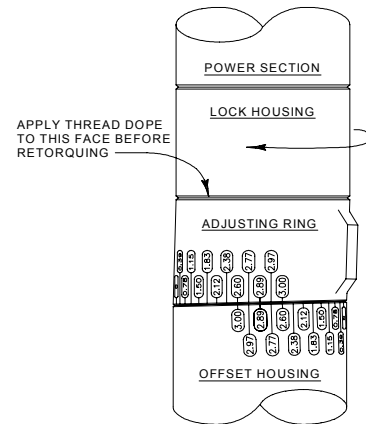


FIGURE 3

- * Engage teeth of adjusting ring at chosen angle setting.
- * Apply thread dope to mating faces of the lock housing and adjusting ring.
- * Torque lock housing to recommended value listed in the table below.
- * Matched number indicates angle of bend and exact short side of motor.

LOCK HOUSING MAKE-UP TORQUE

Motor Size	Imperial	Metric
2 3/8"	1,600 lb-ft	2,200 N.m
2 7/8"	2,200 lb-ft	3,000 N.m
3 1/8"	4,500 lb-ft	6,100 N.m
3 3/8"	4,500 lb-ft	6,100 N.m
3 1/2"	5,000 lb-ft	6,800 N.m
3 3/4"	5,300 lb-ft	7,200 N.m
4 3/4"	10,000 lb-ft	13,500 N.m
5"	15,000 lb-ft	20,300 N.m
6 1/4"	23,000 lb-ft	31,000 N.m
6 3/4" / 7"	28,000 lb-ft	38,000 N.m
7 3/4" / 8"	43,000 lb-ft	58,000 N.m
9 5/8"	68,000 lb-ft	92,000 N.m
11 1/4"	80,000 lb-ft	108,000 N.m

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In the event that the adjusting ring disengages from the offset housing and rotates with the lock housing, the procedure outlined below should be followed to reset the adjusting ring to the proper position prior to setting the bend angle:

- 1) Slide the adjusting ring up until teeth disengage from the offset housing, if not already done.
- 2) Screw the adjusting ring (and the splined mandrel) clockwise into the offset housing until the splined mandrel stops.
- 3) Back off 2 turns (counterclockwise rotation).
- 4) Rotate the adjusting ring clockwise until the "0" markings align.

The adjustable housing is now reset and can be set to the desired bend angle as indicated in the previous 2 pages.

The following table shows the available bend settings for the 2 , 3 and 4 degree adjustable housings.

ADJUSTABLE HOUSING BEND SETTINGS

2 DEGREE	3 DEGREE	4 DEGREE
0.00	0.00	0.00
0.26	0.39	0.35
0.52	0.78	0.69
0.77	1.15	1.04
1.00	1.50	1.37
1.22	1.83	1.69
1.41	2.12	2.00
1.59	2.38	2.29
1.73	2.60	2.57
1.85	2.77	2.83
1.93	2.89	3.06
1.98	2.97	3.28
2.00	3.00	3.46
		3.63
		3.76
		3.86
		3.94
		3.98
		4.00