The 2.38° Adjustable Housing bend setting is set in the same way as the 2°, 3°, and 4° housings, however, instead of teeth, there are pins and slots which must be aligned. The bend setting is shown by aligning the 'BEND' line on the adjusting ring with the desired angle line on the offset housing.

Determining High Side

For whatever bend setting the assembly is set at, the motor high side (short side) is indicated by the corresponding mark on the Adjusting Ring.

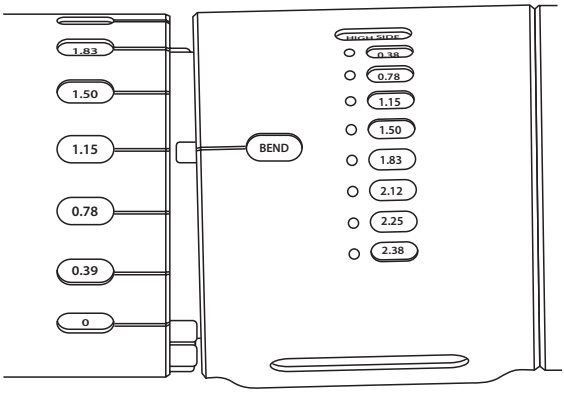

Figure 9: 2.38° Adjusting Ring

Reset Adjusting Ring Position

If the Adjusting Ring teeth are not kept engaged and the ring is allowed to rotate when backing off the Lock housing, the internal Splined Mandrel will back off. This can also occur if the Adjusting Ring is rotated counterclockwise beyond the 0° bend setting. If the Splined Mandrel backs off too far, the Lock Housing will bottom out on the splines when making up this connection. Because of this, the connection is not properly preloaded, which can lead to the Lock Housing or Splined Mandrel backing off down hole. In extreme cases, it is possible that the teeth can be sheared off when trying to torque up the connection.

In the event that the adjusting ring disengages from the offset housing and rotates counterclockwise beyond the 0° bend setting, the procedure outlined below should be followed to reset the adjusting ring to the proper position prior to setting the bend angle:

1. To ensure enough clearance to complete the following steps, engage the adjusting ring and back off only the lock housing 2 additional turns.
2. Slide the adjusting ring up until teeth disengage from the offset housing.
3. Screw the adjusting ring (and the splined mandrel) clockwise into the offset housing until the splined mandrel bottoms out & stops. If teeth engage while screwing in splined mandrel, repeat steps 1 and 2.
4. Back off 2 turns (counterclockwise rotation).
5. Rotate the adjusting ring clockwise to the "0.00" position.

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