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PIONEER TRI-CONE BIT BREAKERS

INTRODUCTION

Pioneer Three Cone Bit Breakers are designed to contact the correct surfaces of rock bits, thus avoiding damage to cones, bit legs or bearings when breaking out bits.

OPERATION

a. Small Bits

It is recommended that small Bits be made up by hand in the drill collar, lowered into the Bit Breaker and torqued to API Spec. (See table)

b. Large Bits

Position the Bit in the Bit Breaker which is already assembled to rotary table. Lower the drill collar on to the shank of the Bit and make up to recommended torque.

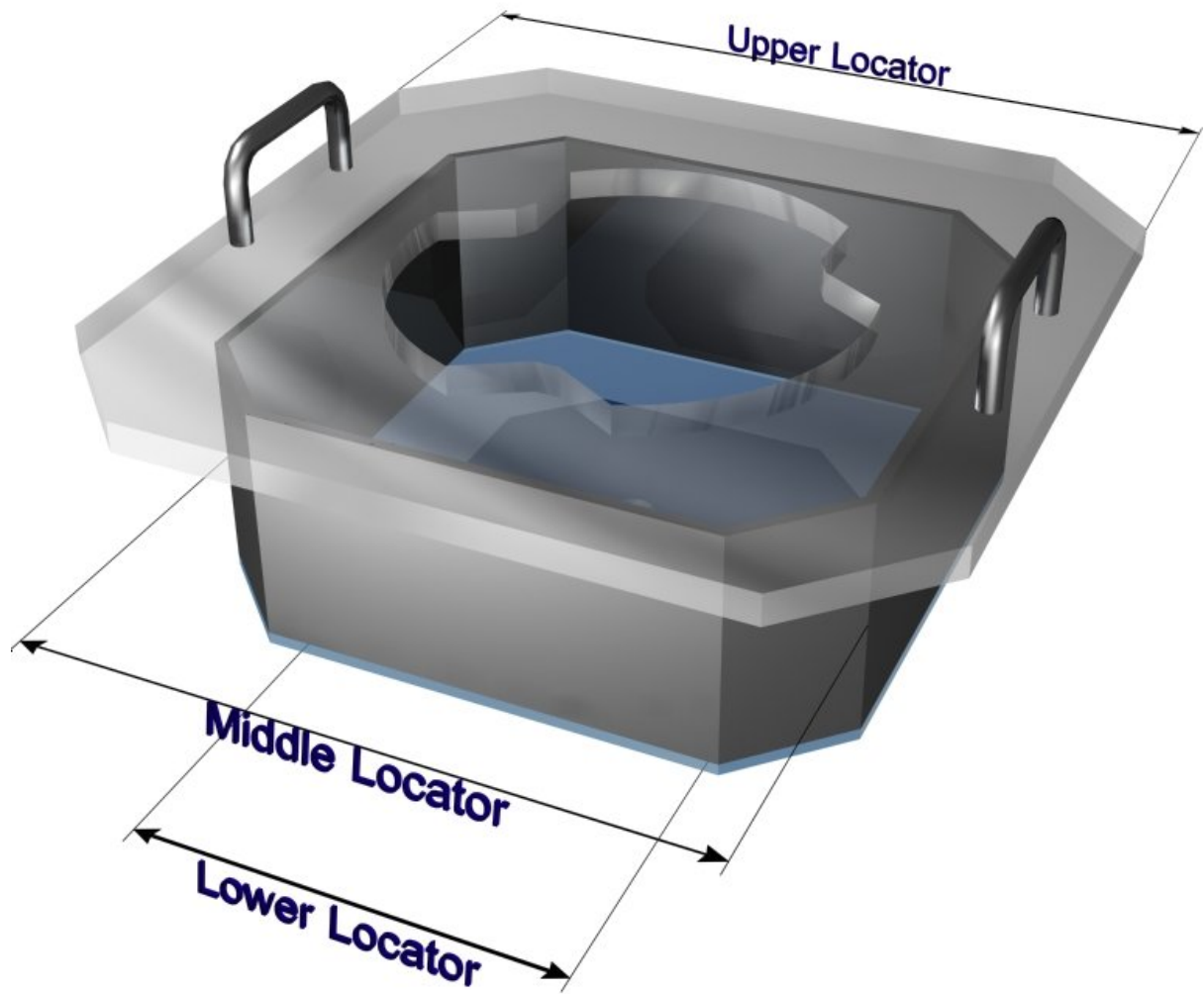
Recommended Make-Up Torques

Rotary Pin Connection	Recommended Torque
2.3/8" A.P.I. Reg.	3,000 – 3,500
2.7/8" A.P.I. Reg.	6,000 – 7,000
3.1/2" A.P.I. Reg.	7,000 – 9,000
4.1/2" A.P.I. Reg.	12,000 – 16,000
6.5/8" A.P.I. Reg.	28,000 – 32,000
7.5/8" A.P.I. Reg.	34,000 – 40,000
8.5/8" A.P.I. Reg.	40,000 – 60,000

Adaptor Plates

Adaptor Plates are available for 4 Pin Drive Master Bushings.

Please state nominal table size when ordering.



MODEL NUMBER	THREE CONE SIZE RANGE	UPPER LOCATOR	MIDDLE LOCATOR	LOWER LOCATOR
BB 30475	4.1/8" – 4.3/4"	13.1/8"	9.3/4"	
BB 30588	5.5/8" – 5.7/8"	13.1/8"	9.3/4"	
BB 30625	6" – 6.1/4"	13.1/8"	9.3/4"	
BB 30675	6.1/2" – 6.3/4"	13.1/8"	9.3/4"	
BB 30750	7.3/8" – 7.1/2"	13.1/8"	9.3/4"	
BB 30788	7.5/8" – 7.7/8"	13.1/8"	9.3/4"	
BB 30863	8.3/8" – 8.5/8"	13.1/8"	9.3/4"	
BB 30900	8.3/4" – 9"	13.1/8"	9.3/4"	
BB 30950	9.1/2"	16"	13.1/8"	
BB 30988	9.5/8" – 9.7/8"	16"	13.1/8"	
BB 31100	10.5/8" – 11"	16"	13.1/8"	
BB 31225	11.3/4" – 12.1/4"	16"	13.1/8"	
BB 31325	13.1/4"	24"	17.1/2"	13.1/8"
BB 31375	13.3/4"	24"	17.1/2"	13.1/8"
BB 31500	14.3/4" – 15"	27"	20.5/8"	13.1/8"
BB 31600	16"	27"	20.5/8"	13.1/8"
BB 31750	17.1/2"	27"	20.5/8"	13.1/8"
BB 31850	18.1/2"	27"	20.5/8"	13.1/8"
BB 32000	20"	38"	27.1/2"	13.1/8"
BB 32400	24"	38"	27.1/2"	13.1/8"
BB 32600	26"	38"	27.1/2"	13.1/8"

“QUALITY + DELIVERY IS OUR PRIORITY”

As the policy of Pioneer Oil Tools is one of continual product improvement, we reserve the right to change designs or specifications without notice.