

# BOLT LENGTH CHARTS

## 047 SERIES BOLT-ON SWEEPS (LIGHT & MEDIUM-DUTY CULTIVATORS)

APPLICATION	TOP BOLT	BOTTOM BOLT	SPECIAL NOTES
1" Bourgault shank w/o seed boot	1/2" x 2"	1/2" x 2"	Plow bolts, no lock washer, regular nut
1" Bourgault shank w/ Bourgault round tube seed boot	1/2" x 2"	1/2" x 2"	Plow bolts, no lock washer, regular nut
1" Bourgault shank w/ Bourgault square tube seed boot	1/2" x 2-1/4"	1/2" x 2"	Plow bolts, no lock washer, regular nut
7/8" Bourgault shank w/o seed boot	1/2" x 1-3/4"	1/2" x 1-3/4"	Plow bolts, no lock washer, regular nut
7/8" Bourgault shank w/ Bourgault round tube seed boot	1/2" x 2"	1/2" x 1-3/4"	Plow bolts, no lock washer, regular nut
7/8" Bourgault shank w/ Bourgault square tube seed boot	1/2" x 2-1/4"	1/2" x 1-3/4"	Plow bolts, no lock washer, regular nut
3/4" Bourgault shank w/o seed boot	1/2" x 1-3/4"	1/2" x 1-3/4"	Plow bolts, no lock washer, regular nut
3/4" Bourgault shank w/ Bourgault round tube seed boot	1/2" x 1-3/4"	1/2" x 1-3/4"	Plow bolts, no lock washer, regular nut
3/4" Bourgault shank w/ Bourgault square tube seed boot	1/2" x 2"	1/2" x 1-3/4"	Plow bolts, no lock washer, regular nut
3/4" Degelman shank w/o seed boot	7/16" x 1-3/4"	7/16" x 1-3/4"	Plow bolts, no lock washer, regular nut
7/8" Flexi-Coil shank w/o seed boot	7/16" x 1-3/4"	7/16" x 1-3/4"	Plow bolts, no lock washer, regular nut
1/2" Morris Challenger shank w/o seed boot	3/8" x 1-1/2"	3/8" x 1-1/2"	Plow bolts, no lock washer, regular nut
5/8" Morris Challenger shank w/o seed boot	3/8" x 1-1/2"	3/8" x 1-1/2"	Plow bolts, no lock washer, regular nut
5/8" John Deere shank w/o seed boot	7/16" x 1-1/2"	7/16" x 1-1/2"	Plow bolts, no lock washer, regular nut
9/16" CIL shank w/o seed boot	3/8" x 1-1/2"	3/8" x 1-1/2"	Plow bolts, no lock washer, regular nut
1/2" Case IH shank w/o seed boot	7/16" x 1-1/2"	7/16" x 1-1/2"	Plow bolts, no lock washer, regular nut

## 043 & 050 SERIES BOLT-ON SWEEPS (HEAVY-DUTY CHISEL PLOWS)

APPLICATION	TOP BOLT	BOTTOM BOLT	SPECIAL NOTES
1" Bourgault shank w/o seed boot	1/2" x 2"	1/2" x 2"	Plow bolts, no lock washer, regular nut
1" Bourgault shank w/ Bourgault splitter seed boot #6505-42	1/2" x 2-1/4"	1/2" x 2"	Plow bolts, no lock washer, regular nut
1-1/4" Bourgault shank w/o seed boot	1/2" x 2-1/4"	1/2" x 2-1/4"	Plow bolts, no lock washer, regular nut
1-1/4" Bourgault shank w/ Bourgault splitter seed boot #6505-42	1/2" x 2-1/2"	1/2" x 2-1/4"	Plow bolts, no lock washer, regular nut
1" John Deere shank w/o seed boot	1/2" x 1-3/4"	1/2" x 2"	Plow bolts, no lock washer, regular nut
3/4" Degelman shank (50°) w/o seed boot	1/2" x 1-3/4"	1/2" x 1-3/4"	Plow bolts, no lock washer, regular nut
1-1/4" Flexi-Coil shank w/o seed boot	1/2" x 2-1/4"	1/2" x 2-1/4"	Plow bolts, no lock washer, regular nut
1" Morris shank (43°) w/o seed boot	1/2" x 2"	1/2" x 2"	Plow bolts, no lock washer, regular nut
7/8" Shulte shank w/o seed boot	1/2" x 2"	1/2" x 2"	Plow bolts, no lock washer, regular nut
1-1/4" CIL shank w/o seed boot	1/2" x 2-1/4"	1/2" x 2-1/4"	Plow bolts, no lock washer, regular nut
1-1/4" IH shank w/o seed boot	1/2" x 2-1/4"	1/2" x 2-1/4"	Plow bolts, no lock washer, regular nut
3/4" Case IH Vibra shank w/o seed boot	1/2" x 1-3/4"	1/2" x 1-3/4"	Plow bolts, no lock washer, regular nut

**NOTES:** 1) All Bourgault sweeps come with 1/2" holes. Shanks with 3/8" and 7/16" holes require special oversize (O/S) head plow bolts. 2) When bolting a seed boot, usually it is the bottom bolt which bolts the seed boot to the shank; the top bolt should remain the same length as listed above. If the seed boot cross section at the point the bolt goes through is 1/8" thick or less, use the same bolt length as above without the lock washer. If the seed boot cross section at the point the bolt goes through is greater than 1/8", increase bolt length by adding the measured cross section of the seed boot at the point the bolt goes through to the above lengths.

# BOLT LENGTH CHARTS

## 200-QCA-4700 QC ADAPTER

APPLICATION	TOP BOLT	BOTTOM BOLT	SPECIAL NOTES
1" Bourgault shank w/o seed boot	1/2" x 2-1/4" no lock washer	1/2" x 2-1/4" no lock washer	Hex head bolts
1" Bourgault shank w/ round tube Bourgault seed boot	1/2" x 2-1/4" no lock washer	1/2" x 2" no lock washer	Hex head bolts, Grade 8 required
1" Bourgault shank w/ square tube Bourgault seed boot	1/2" x 2" no lock washer	1/2" x 2-1/2" no lock washer	Hex head bolts, Grade 8 required
7/8" Bourgault shank w/o seed boot	1/2" x 2" no lock washer	1/2" x 2" no lock washer	Hex head bolts
7/8" Bourgault shank w/ round tube Bourgault seed boot	1/2" x 2-1/4" no lock washer	1/2" x 2" no lock washer	Hex head bolts, Grade 8 required
7/8" Bourgault shank w/ square tube Bourgault seed boot	1/2" x 2-1/4" no lock washer	1/2" x 2" no lock washer	Hex head bolts, Grade 8 required
3/4" Bourgault shank w/o seed boot	1/2" x 2" no lock washer	1/2" x 2" no lock washer	Hex head bolts
3/4" Bourgault shank w/ round tube Bourgault seed boot	1/2" x 2" c/w with lock washer	1/2" x 1-3/4" no lock washer	Hex head bolts
3/4" Bourgault shank w/ square tube Bourgault seed boot	1/2" x 2-1/4" w/ lock washer	1/2" x 1-3/4" no lock washer	Hex head bolts
3/4" Ezee-On shank w/o seed boot	7/16" x 1-3/4"	7/16" x 1-3/4"	Hex head bolts <sup>3</sup>
7/8" Ezee-On shank w/o seed boot	7/16" x 2"	7/16" x 2"	Hex head bolts <sup>3</sup>

**NOTES:** 1) Above bolt lengths are determined using prevailing torque side lock nuts – Grade C. This special locknut is necessary to keep the adapter tight. It is very important to use it, especially in stony or hard ground conditions. 2) Grade 8 bolts are required with the Bourgault 7/8" and 1" shanks where seed boots are involved. If not used, bolt loosening may occur. 3) Shanks with 7/16" holes require the special oversize (O/S) head hex bolt.

## 200-QCA-4710 QC ADAPTER

APPLICATION	TOP BOLT	BOTTOM BOLT	SPECIAL NOTES
3/4" and 7/8" Flexi-Coil shank w/o seed boot	7/16" x 2-1/4" no lock washer	7/16" x 2-1/4" no lock washer	Plow bolt <sup>2</sup>
7/8" Flexi-Coil shank w/ 5649 seed boot	7/16" x 2-1/2" no lock washer	7/16" x 3-7/8" no lock washer	Plow bolt <sup>2</sup>
1/2" Morris Challenger shank w/o seed boot	3/8" x 1-3/4" no lock washer	3/8" x 1-3/4" no lock washer	Plow bolt <sup>2</sup>
5/8" Morris Challenger shank w/o seed boot	3/8" x 2" no lock washer	3/8" x 2" no lock washer	Plow bolt <sup>2</sup>
7/8" Morris shank w/o seed boot	7/16" x 2-1/4" no lock washer	7/16" x 2-1/4" no lock washer	Plow bolt <sup>2</sup>
9/16" CIL shank w/o seed boot	3/8" x 2" no lock washer	3/8" x 2" no lock washer	Plow bolt <sup>2</sup>
5/8" John Deere shank w/o seed boot	7/16" x 2" no lock washer	7/16" x 2" no lock washer	Plow bolt <sup>2</sup>
3/4" Degelman shank	7/16" x 2-1/4" no lock washer	7/16" x 2-1/4" no lock washer	Plow bolt <sup>2</sup>
9/16" Wil-rich shank w/o seed boot	1/2" x 2" no lock washer	1/2" x 2" no lock washer	Plow bolt

**NOTES:** 1) All Bourgault sweeps come with 1/2" holes. Shanks with 3/8" and 7/16" holes require special oversize (O/S) head plow bolts. 2) When bolting a seed boot, usually it is the bottom bolt which bolts the seed boot to the shank; the top bolt should remain the same length as listed above. If the seed boot cross section at the point the bolt goes through is 1/8" thick or less, use the same bolt length as above without the lock washer. If the seed boot cross section at the point the bolt goes through is greater than 1/8", increase bolt length by adding the measured cross section of the seed boot at the point the bolt goes through to the above lengths.

## 200-QCA-5010 QC ADAPTER

APPLICATION	TOP BOLT	BOTTOM BOLT	SPECIAL NOTES
1" shank w/o seed boot or wedge	1/2" x 2-1/2" w/ lock washer	1/2" x 2-1/2" w/ lock washer	Plow bolt
1-1/4" shank w/o seed boot or wedge	1/2" x 2-3/4" w/ lock washer	1/2" x 2-3/4" w/ lock washer	Plow bolt

**NOTES:** 1) Above bolt lengths are determined using prevailing torque side lock nuts – Grade C. This special locknut is necessary to keep the adapter tight. 2) Shanks with 3/8" and 7/16" holes require special oversize (O/S) head plow bolts. 3) When bolting a seed boot, usually it is the bottom bolt which bolts the seed boot to the shank; the top bolt should remain the same length as listed above. If the seed boot cross section at the point the bolt goes through is 1/8" thick or less, use the same bolt length as above without the lock washer. If the seed boot cross section at the point the bolt goes through is greater than 1/8", increase bolt length by adding the measured cross section of the seed boot at the point the bolt goes through to the above lengths.

# BOLT LENGTH CHARTS

## 410-QCA-5000 QC ADAPTER

APPLICATION	TOP HOLE	BOTTOM HOLE	SPECIAL NOTES
1" Bourgault shank w/o seed boot	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex head
1" Bourgault shank w/ Bourgault splitter seed boot 6505-42	1/2" x 2-1/2"	1/2" x 2-3/4"	Hex head
1-1/4" Bourgault shank w/o seed boot	1/2" x 2-3/4"	1/2" x 2-3/4"	Hex head
1-1/4" Bourgault shank w/ Bourgault splitter seed boot 6505-42	1/2" x 2-3/4"	1/2" x 3"	Hex head

## 410-QCA-5010 QC ADAPTER

APPLICATION	TOP HOLE	BOTTOM HOLE	SPECIAL NOTES
1" shank w/o seed boot or wedge	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex head
1-1/4" shank w/o seed boot or wedge	1/2" x 2-3/4"	1/2" x 2-3/4"	Hex head

**NOTES:** **1)** Above bolt lengths are determined using prevailing torque side locknuts – grade C. This special locknut is necessary to keep the adapter tight. **2)** When bolting a seed boot, usually it is the bottom bolt which bolts the seed boot to the shank; the top bolt should remain the same length as listed above. If the seed boot cross section at the point the bolt goes through is 1/8" thick or less, use the same bolt length as above without the lockwasher. If the seed boot cross section at the point the bolt goes through is greater than 1/8", increase bolt length by adding the measured cross section of the seed boot at the point the bolt goes through to the above lengths. **3)** When bolting an adapter using a wedge, a wedge will only be used when using the 410-QCA-5010 adapter on 43° and 47° chisel plows. Measure the cross section of the wedge at both bolt holes and add this amount to the above numbers. Remember that the measured cross section will be different at each hole in the wedge.

## 600/602 SERIES QUICK TIP KNIVES

APPLICATION	TOP HOLE	BOTTOM HOLE	SPECIAL NOTES
<b>FOR 47° &amp; 50° APPLICATIONS NO WEDGE IS REQUIRED</b>			
1-1/4" Bourgault shank	1/2" x 2-3/4"	1/2" x 2-3/4"	Hex head bolt, regular nut & lock
1" Bourgault shank	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex head bolt, regular nut & lock
7/8" Bourgault shank	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex head bolt, regular nut & lock
3/4" Bourgault shank	1/2" x 2-1/4"	1/2" x 2-1/4"	Hex head bolt, regular nut & lock
1-1/4" Flexi-Coil shank	1/2" x 2-3/4"	1/2" x 2-3/4"	Hex head bolt, regular nut & lock
1-1/4" Morris shank	1/2" x 2-3/4"	1/2" x 2-3/4"	Hex head bolt, regular nut & lock <sup>1</sup>
1" John Deere shank	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex head bolt, regular nut & lock
7/8" Shulte shank	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex head bolt, regular nut & lock
3/4" Degelman shank	1/2" x 2-1/4"	1/2" x 2-1/4"	Hex head bolt, regular nut & lock
<b>FOR 43° APPLICATIONS WEDGE 400-WDG-0700 IS REQUIRED</b>			
1" Morris shank for NH3 knives	1/2" x 3" no lock washer	1/2" x 2-3/4" no lock washer	Hex head, regular nut
1" Morris shank for granular knives	1/2" x 3" no lock washer	1/2" x 2-3/4" no lock washer	Hex head, regular nut
1-1/4" CIL shank, 2-1/2" hole center-to-center	1/2" x 3-1/4" c/w no lock washer	1/2" x 2-3/4" no lock washer	Hex head, regular nut
1-1/4" IH shank	1/2" x 3-1/4"	1/2" x 3"	Hex head bolt, regular nut & lock <sup>2</sup>
3/4" Case IH Vibra chisel shank	1/2" x 2-3/4"	1/2" x 2-1/2"	Hex head bolt, regular nut & lock

**NOTES:** **1)** Some material may have to be ground off the bottom of the 1-1/4" Morris shank (front face) to get the knife holder to seat down tight against the shank. **2)** The 1-1/4" IH shank will fit the NH3 knives, but not the granular knife. **3)** All knives come with holes to accommodate 1/2" bolts. If cultivator shanks have 7/16" holes, substitute 7/16" bolts for 1/2" and use a flat washer on the bolt head.