

# Bolt length chart

## 047 series Bolt-on sweeps on light & medium duty cultivators

APPLICATION	TOP HOLE	BOTTOM HOLE	SPECIAL NOTES
1" Bourgault shank without seed boot	1/2" x 2"	1/2" x 2"	Plowbolts, no lockwasher, regular nut
1" Bourgault shank with Bourgault round tube seed boot	1/2" x 2"	1/2" x 2"	Plowbolts, no lockwasher, regular nut
1" Bourgault shank with Bourgault square tube seed boot	1/2" x 2"	1/2" x 2-1/4"	Plowbolts, no lockwasher, regular nut
7/8" Bourgault shank without seed boot	1/2" x 1-3/4"	1/2" x 1-3/4"	Plowbolts, no lockwasher, regular nut
7/8" Bourgault shank with Bourgault round tube seed boot	1/2" x 1-3/4"	1/2" x 2"	Plowbolts, no lockwasher, regular nut
7/8" Bourgault shank with Bourgault square tube seed boot	1/2" x 1-3/4"	1/2" x 2-1/4"	Plowbolts, no lockwasher, regular nut
3/4" Bourgault shank without seed boot	1/2" x 1-3/4"	1/2" x 1-3/4"	Plowbolts, no lockwasher, regular nut
3/4" Bourgault shank with Bourgault round tube seed boot	1/2" x 1-3/4"	1/2" x 1-3/4"	Plowbolts, no lockwasher, regular nut
3/4" Bourgault shank with Bourgault square tube seed boot	1/2" x 1-3/4"	1/2" x 2"	Plowbolts, no lockwasher, regular nut
3/4" Degelman shank without seed boot	7/16" x 1-3/4"	7/16" x 1-3/4"	Plowbolts, no lockwasher, regular nut
7/8" Flexi-Coil shank without seed boot	7/16" x 1-3/4"	7/16" x 1-3/4"	Plowbolts, no lockwasher, regular nut
1/2" Morris Challenger shank without seed boot	3/8" x 1-1/2"	3/8" x 1-1/2"	Plowbolts, no lockwasher, regular nut
5/8" Morris Challenger shank without seed boot	3/8" x 1-1/2"	3/8" x 1-1/2"	Plowbolts, no lockwasher, regular nut
5/8" John Deere shank without seed boot	7/16" x 1-1/2"	7/16" x 1-1/2"	Plowbolts, no lockwasher, regular nut
9/16" CIL shank without seed boot	3/8" x 1-1/2"	3/8" x 1-1/2"	Plowbolts, no lockwasher, regular nut
1/2" Case IH shank without seed boot	7/16" x 1-1/2"	7/16" x 1-1/2"	Plowbolts, no lockwasher, regular nut

NOTES: 1) All Bourgault sweeps come with 1/2" holes. Shanks with 3/8" & 7/16" holes require special oversize (O/S) head plowbolts. 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.

## 043 & 050 series Bolt-on sweeps on heavy duty chisel plows

APPLICATION	TOP HOLE	BOTTOM HOLE	SPECIAL NOTES
1" Bourgault shank without seed boot	1/2" X 2"	1/2" X 2"	Plowbolts, no lockwasher, regular nut
1" Bourgault shank with Bourgault splitter seed boot #6505-42	1/2" X 2"	1/2" X 2-1/4"	Plowbolts, no lockwasher, regular nut
1-1/4" Bourgault shank without seed boot	1/2" X 2-1/4"	1/2" X 2-1/4"	Plowbolts, no lockwasher, regular nut
1-1/4" Bourgault shank with Bourg. splitter seed boot #6505-42	1/2" X 2-1/4"	1/2" X 2-1/2"	Plowbolts, no lockwasher, regular nut
1" John Deere shank without seed boot	1/2" X 2"	1/2" X 1-3/4"	Plowbolts, no lockwasher, regular nut
3/4" Degelman shank (50 degree) without seed boot	1/2" X 1-3/4"	1/2" X 1-3/4"	Plowbolts, no lockwasher, regular nut
1-1/4" Flexi-Coil shank without seed boot	1/2" X 2-1/4"	1/2" X 2-1/4"	Plowbolts, no lockwasher, regular nut
1" Morris shank (43 degree) without seed boot	1/2" X 2"	1/2" X 2"	Plowbolts, no lockwasher, regular nut
7/8" Shulte shank without seed boot	1/2" X 2"	1/2" X 2"	Plowbolts, no lockwasher, regular nut
1-1/4" CIL shank without seed boot	1/2" X 2-1/4"	1/2" X 2-1/4"	Plowbolts, no lockwasher, regular nut
1-1/4" IH shank without seed boot	1/2" X 2-1/4"	1/2" X 2-1/4"	Plowbolts, no lockwasher, regular nut
3/4" Case IH Vibra shank without seed boot	1/2" x 1-3/4"	1/2" x 1-3/4"	Plowbolts, no lockwasher, regular nut

NOTES: 1) All Bourgault sweeps come with 1/2" holes. Shanks with 3/8" & 7/16" holes require special oversize (O/S) head plowbolts. 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.

**General note:** Not every shank has been listed in the bolt length charts. We have tried to list a variety of different shanks with varying thicknesses. To find the appropriate bolt length for a make or model that is not listed in the chart simply find a shank in the chart that is the same thickness and the bolt length should be the same.

## 100 & 200 series QC adapter — part #100-QCA-4700 & 200-QCA-4700

APPLICATION	TOP HOLE	BOTTOM HOLE	SPECIAL NOTES
1" Bourgault shank without seed boot	1/2" x 2-1/4" with lockwasher	1/2" x 2-1/4" with lockwasher	Hex-Head bolts
1" Bourgault shank with round tube Bourgault seed boot	1/2" x 2" no lockwasher	1/2" x 2-1/4" with lockwasher	Hex-Head bolts, Grade 8 req'd
1" Bourgault shank with square tube Bourgault seed boot	1/2" x 2" no lockwasher	1/2" x 2-1/2" with lockwasher	Hex-Head bolts, Grade 8 req'd
7/8" Bourgault shank without seed boot	1/2" x 2" with lockwasher	1/2" x 2" with lockwasher	Hex-Head bolts
7/8" Bourgault shank with round tube Bourgault seed boot	1/2" x 2" with lockwasher	1/2" x 2-1/4" with lockwasher	Hex-Head bolts, Grade 8 req'd
7/8" Bourgault shank with square tube Bourgault seed boot	1/2" x 2" with lockwasher	1/2" x 2-1/4" no lockwasher	Hex-Head bolts, Grade 8 req'd
3/4" Bourgault shank without seed boot	1/2" x 2" with lockwasher	1/2" x 2" with lockwasher	Hex-Head bolts
3/4" Bourgault shank with round tube Bourgault seed boot	1/2" x 1-3/4" no lockwasher	1/2" x 2" c/w with lockwasher	Hex-Head bolts
3/4" Bourgault shank with square tube Bourgault seed boot	1/2" x 1-3/4" no lockwasher	1/2" x 2-1/4" with lockwasher	Hex-Head bolts
3/4" Ezee-On shank without seed boot	7/16" x 1-3/4"	7/16" x 1-3/4"	Hex-Head bolts See note # 3 below
7/8" Ezee-On shank without seed boot	7/16" x 2"	7/16" x 2"	Hex-Head bolts See note # 3 below

NOTES: 2) 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. 3) Grade 8 bolts are required with the Bourgault 7/8" & 1" shanks where seed boots are involved. If not used, bolt loosening may occur. 3) Shanks with 7/16" holes require the special oversize head hex-bolt.

## 100 & 200 series QC adapter — part #100-QCA-4710 & 200-QCA-4710

APPLICATION	TOP HOLE	BOTTOM HOLE	SPECIAL NOTES
3/4" & 7/8" Flexi-Coil shank without seed boot	7/16" x 2-1/4" with lockwasher	7/16" x 2-1/4" with lockwasher	Plowbolt, see note # 2 below
7/8" Flexi-Coil shank with # 5649 seed boot	7/16" x 3-7/8" with lockwasher	7/16" x 2-1/2" with lockwasher	Plowbolt, see note # 2 below
1/2" Morris Challenger shank without seed boot	3/8" x 1-3/4" no lockwasher	3/8" x 1-3/4" no lockwasher	Plowbolt, see note # 2 below
5/8" Morris Challenger shank without seed boot	3/8" x 2" with lockwasher	3/8" x 2" with lockwasher	Plowbolt, see note # 2 below
7/8" Morris shank without seed boot	7/16" x 2-1/4" with lockwasher	7/16" x 2-1/4" with lockwasher	Plowbolt, see note # 2 below
9/16" CIL shank without seed boot	3/8" x 2" with lockwasher	3/8" x 2" with lockwasher	Plowbolt, see note # 2 below
5/8" John Deere shank without seed boot	7/16" x 2" with lockwasher	7/16" x 2" with lockwasher	Plowbolt, see note # 2 below
3/4" Degelman shank	7/16" x 2-1/4" with lockwasher	7/16" x 2-1/4" with lockwasher	Plowbolt, see note # 2 below
9/16" Willrich shank without seed boot	1/2" x 2" with lockwasher	1/2" x 2" with lockwasher	Plowbolt

## 100 & 200 series QC adapter — part #100-QCA-5010 & 200-QCA-5010

APPLICATION	TOP HOLE	BOTTOM HOLE	SPECIAL NOTES
1" shank without seed boot or wedge	1/2 x 2-1/2" with lockwasher	1/2 x 2-1/2" with lockwasher	Plowbolt
1-1/4" shank without seed boot seed boot or wedge	1/2 x 2-3/4" with lockwasher	1/2 x 2-3/4" with lockwasher	Plowbolt

NOTES: 1) Above bolt lengths are determined using Prevailing Torque Side Lock nuts-Grade C. This special lock nut is necessary to keep the adapter tight. 2) Shanks with 3/8" & 7/16" holes require special oversize head plowbolts. 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 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.

# Bolt length chart

## 410 series QC adapter — part #410-QCA-5000

APPLICATION	TOP HOLE	BOTTOM HOLE	SPECIAL NOTES
1" Bourgault shank without seed boot	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex-Head
1" Bourgault shank with 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 without seed boot	1/2" x 2-3/4"	1/2" x 2-3/4"	Hex-Head
1-1/4" Bourgault shank with Bourg. splitter seed boot # 6505-42	1/2" x 2-3/4"	1/2" x 3"	Hex-Head

## 410 series QC adapter — part #410-QCA-5010

APPLICATION	TOP HOLE	BOTTOM HOLE	SPECIAL NOTES
1" shank without seed boot or wedge	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex-Head
1-1/4" shank without 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 Lock nuts-Grade C. This special lock nut 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 & 47 degree Chisel Plows. Measure the cross-section of the wedge at both bolt holes & add this amount to the above numbers. Remember that the measured cross-section will be different at each hole in the wedge.

## 600 series quick tip knives

APPLICATION	TOP HOLE	BOTTOM HOLE	SPECIAL NOTES
For 47 & 50 degree applications — no wedge needed.			
1-1/4" Bourgault shank	1/2" x 2-3/4"	1/2" x 2-3/4"	Hex-Head bolt, reg. nut & lock.
1" Bourgault shank	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex-Head bolt, reg. nut & lock.
7/8" Bourgault shank	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex-Head bolt, reg. nut & lock.
3/4" Bourgault shank	1/2" x 2-1/4"	1/2" x 2-1/4"	Hex-Head bolt, reg. nut & lock.
1-1/4" Flexi-Coil shank	1/2" x 2-3/4"	1/2" x 2-3/4"	Hex-Head bolt, reg. nut & lock.
1-1/4" Morris shank	1/2" x 2-3/4"	1/2" x 2-3/4"	Hex-Head bolt, reg. nut & lock. See note # 1 below
1" John Deere shank	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex-Head bolt, reg. nut & lock.
7/8" Shulte shank	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex-Head bolt, reg. nut & lock.
3/4" Degelman shank	1/2" x 2-1/4"	1/2" x 2-1/4"	Hex-Head bolt, reg. nut & lock.

For 43 degree applications — wedge part #400-WDG-0700 is required.

1" Morris shank - for NH3 knives	1/2" x 3" no lockwasher	1/2" x 2-3/4" no lockwasher	Hex-Head, regular nut.
1" Morris shank - for Gran. knives	1/2" x 3" no lockwasher	1/2" x 2-3/4" no lockwasher	Hex-Head, regular nut.
1-1/4" CIL shank - 2-1/2" hole c-c	1/2" x 3-1/4" c/w no lockwasher	1/2" x 2-3/4" no lockwasher	Hex-Head, regular nut.
1-1/4" IH shank	1/2" x 3-1/4"	1/2" x 3"	Hex-Head bolt, reg. nut & lock. See note # 2 below
3/4 Case IH vibra chisel shank	1/2" x 2-3/4"	1/2" x 2-1/2"	Hex-Head bolt, reg. 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.