

Parts Manual

Mfg. No: Article 5384
30" Sickle Bar

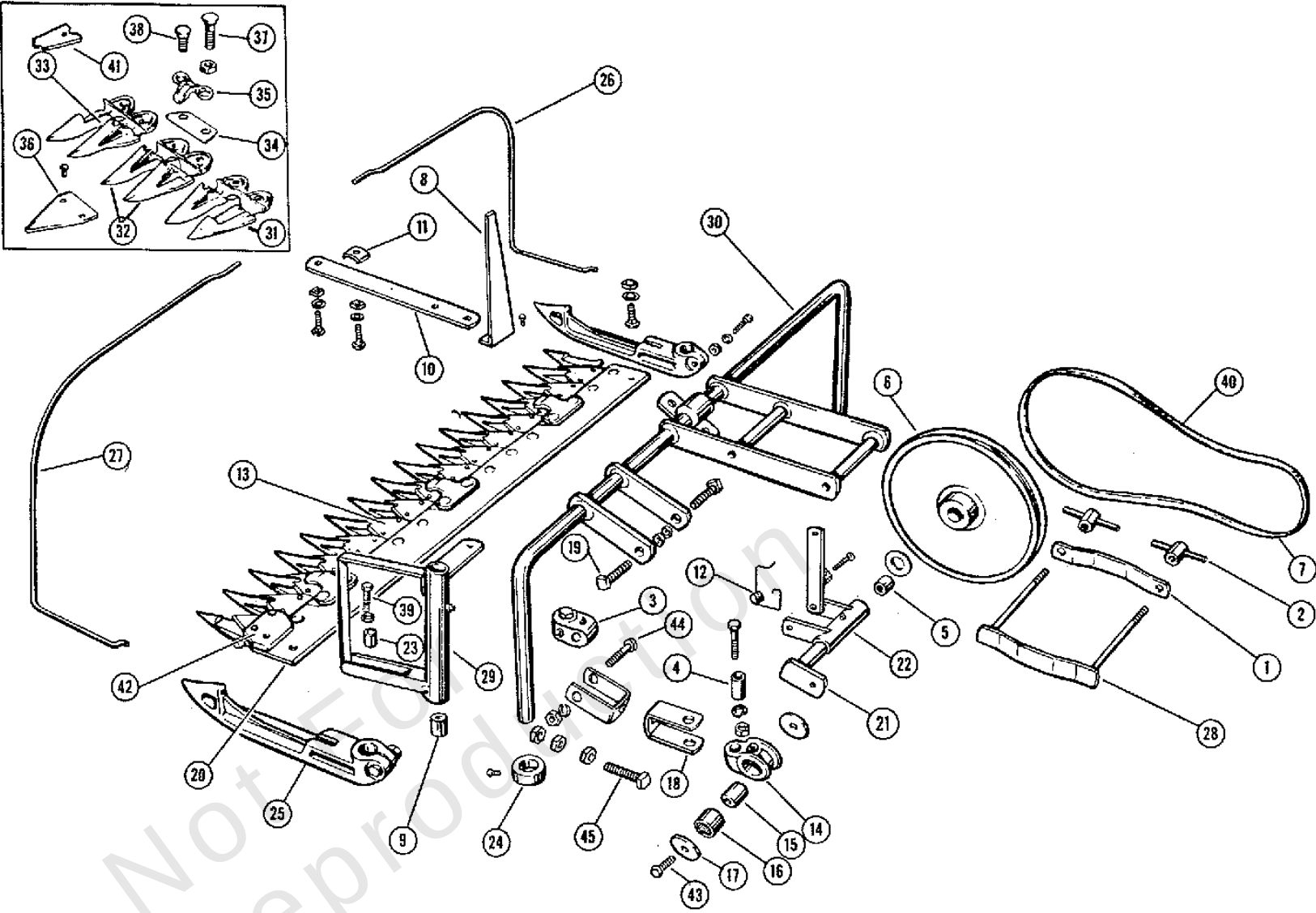
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Not For
Reproduction

30" Sickle Bar (3697107)

Note: Unless noted otherwise, use the standard torque specifications

Article 5384



30" Sickle Bar (3697107)

REF NO	PART NO	QTY	DESCRIPTION
1	8161029	1	SIDE PLATE, Hitch
2	8161041	1	T-NUT, Complete
3	8161052	1	PIVOT BLOCK
4	1729273SM	1	BEARING, Pivot Block
5	8191044	1	BUSHING, Bearing Bracket
6	1729273SM	1	SHEAVE
7	1608954SM	1	BELT, 33", 2 H.P. only
8	8161018	1	WHIPPER
9	1667099SM	1	BUSHING, Sickle Crank
10	8161181	1	BRACKET, Grass Finger
11	8161182	1	CLAMP, Grass Finger
12	8161185	1	SPRING, Belt Release
13	8161188	1	SICKLE, Complete w/ Head
14	8161192	1	BEARING HOUSING, Pitman
15	8161197	1	BEARING, Inner Race, Pitman
16	2157678SM	1	BEARING, Needle, Pitman
17	1924356SM	1	BEARING, Washer, Pitman
18	8161203	1	CLEVES, Pitman
19	8161209	1	CAP SCREW, Special
20	8161189	1	CUTTER BAR, Slab, 30"
21	8161515	1	CRANKSHAFT ASSEMBLY
22	8161519	1	BRACKET ASSEMBLY, Bearing, w/ Bushings
23	1729274SM	1	BUSHING, Sickle Head
24	8211005	1	COLLAR, Set
25	8162019	1	SHOE, Sickle Bar
26	8162026	1	GRASS FINGER, Right
27	8162027	1	GRASS FINGER, Left
28	8162501	1	CLAMP, Hitch
29	8162510	1	SICKLE BELL CRANK, w/ Bearing, Bushing, & Sickle Head Bolt
30	8162508	1	FRAME, Sickle Bar
31	8161131	1	GUARD, Left End
32	8161135	1	GUARD, Twin
33	8161138	1	GUARD, Right End
34	8161136	1	PLATE, Wear
35	8161137	1	CLIP, Sickle
36	101004	1	SICKLE SECTIONS
37	8161133	1	GUARD BOLT, Long
38	8161134	1	GUARD BOLT, Short
39	-----	1	BOLT, Sickle Head, 3/8-24 x 1-1/2
40	-----	1	BELT, 37", 3 HP Only
41	8161191	1	PLATES, Ledger
42	-----	1	SICKLE, Head Only
43	-----	1	BOLT, Crank Pin, 3/8-24 x 2
44	-----	1	BOLT, Pivot Block, 3/8-16 x 1-3/4
45	-----	1	BOLT, Pitman Machine, 7/16-14 x 1-1/2

Hardware Identification & Torque Specifications

Torque Specification Chart								
FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)								
Property Class	 Class 5.6		 Class 8.8		 Class 10.9		 Class 12.9	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
M3	5.88	.56	13.44	1.28	19.2	1.80	22.92	2.15
M4	13.44	1.28	30.72	2.90	43.44	4.10	52.56	4.95
M5	26.4	2.50	60.96	5.75	5.97	8.10	7.15	9.7
M6	44.64	4.3	7.3	9.9	10.3	14	12.1	16.5
M7	5.2	7.1	12.1	16.5	16.9	23	19.9	27
M8	7.7	10.5	17.7	24	25	34	29	40
M10	15	21	35	48	50	67	59	81
M12	26	36	61	83	86.2	117	103	140
M14	42	58	101	132	136	185	162	220
M16	64	88	147	200	210	285	250	340
M18	89	121	202	275	287	390	346	470
M20	126	171	290	390	405	550	486	660
M22	169	230	390	530	559	745	656	890
M24	217	295	497	375	708	960	840	1140
M27	320	435	733	995	1032	1400	1239	1680
M30	435	590	995	1350	1401	1900	1681	2280
M33	590	800	1349	1830	1902	2580	2278	3090
M36	759	1030	1740	2360	2441	3310	2935	3980
M39	988	1340	2249	3050	3163	4290	3798	5150

The guides and ruler furnished below are designed to help you select the appropriate hardware.



Standard Hardware Sizing

When a washer or nut is identified as 1/2" (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw, 2 inches (50mm).

Torque Specification Chart						
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)						
Hardware Grade	 SAE Grade 2		 SAE Grade 5		 SAE Grade 8	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	29	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
 - for prevailing torque locknuts - use 65% of grade 5 torques.
 - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types



Wrench & Fastener Size Guide

 1/4" Bolt or Nut Wrench—7/16"	 5/16" Bolt or Nut Wrench—1/2"	 3/8" Bolt or Nut Wrench—9/16"	 7/16" Bolt or Nut Wrench (Bolt)—5/8" Wrench (Nut)—11/16"	 1/2" Bolt or Nut Wrench—3/4"
M6 Bolt or Nut Wrench—10mm	M8 Bolt or Nut Wrench—13mm	M10 Bolt or Nut Wrench—17mm	M12 Bolt or Nut Wrench—19mm	M14 Bolt or Nut Wrench—22mm

