

Parts Manual

Mfg. No: 5600772
800X Broom, 60" (For Diesel Models)

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Not For
Reproduction

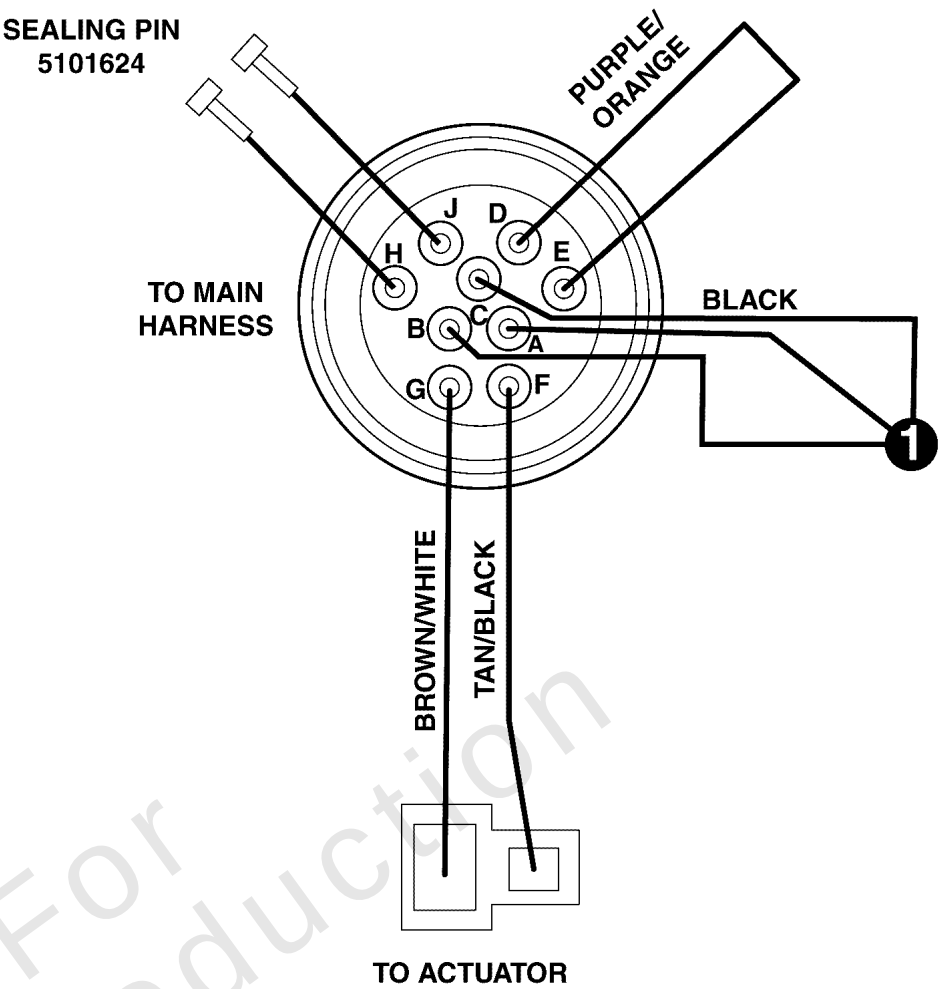
Electrical Schematic

Note: Unless noted otherwise, use the standard torque specifications

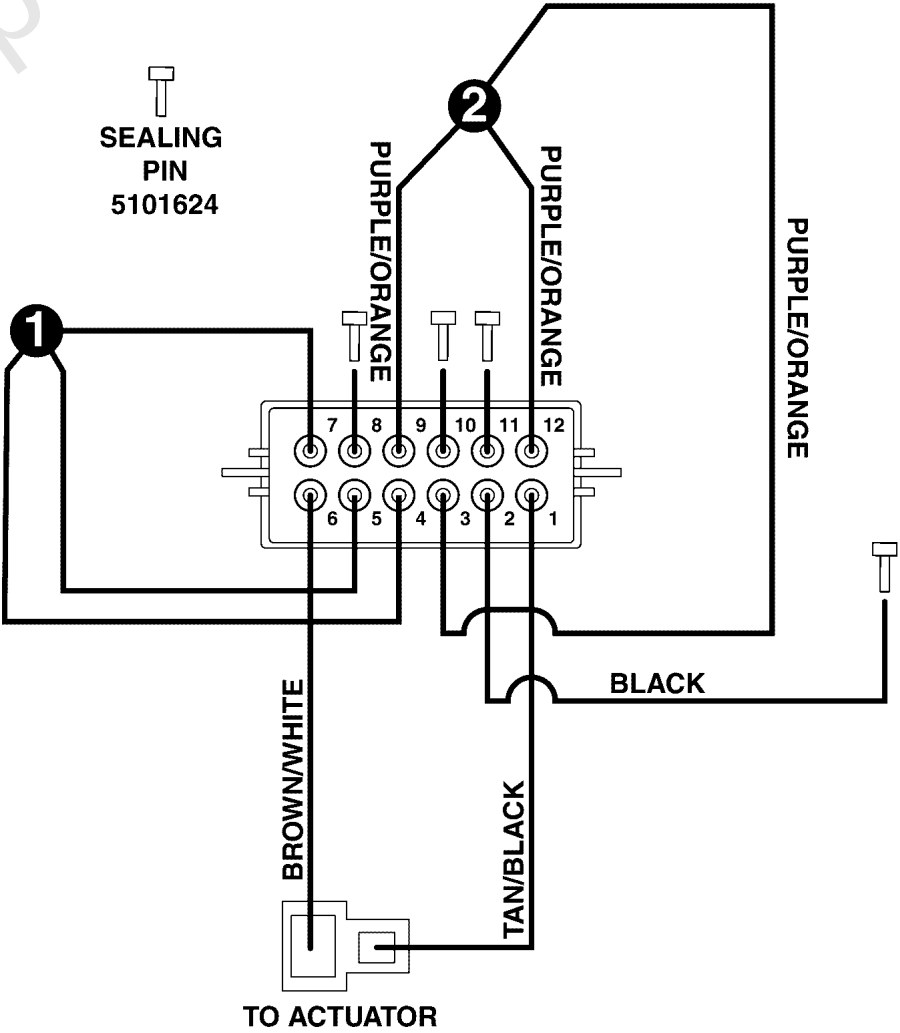
Mfg. No: 5600772

5412700 - WIRE HARNESS, BROOM, ROUND CONNECTOR

5412699
5412700



5412699 - WIRE HARNESS, BROOM, RECTANGULAR CONNECTOR



Electrical Schematic

REF NO	PART NO	QTY	DESCRIPTION
1	5412700	1	WIRE HARNESS, BROOM, ROUND CONNECTOR -(Models with round electrical connectors)
2	5412699	1	WIRE HARNESS, BROOM, RECTANGULAR CONNECTOR -(Models with square electrical connectors)

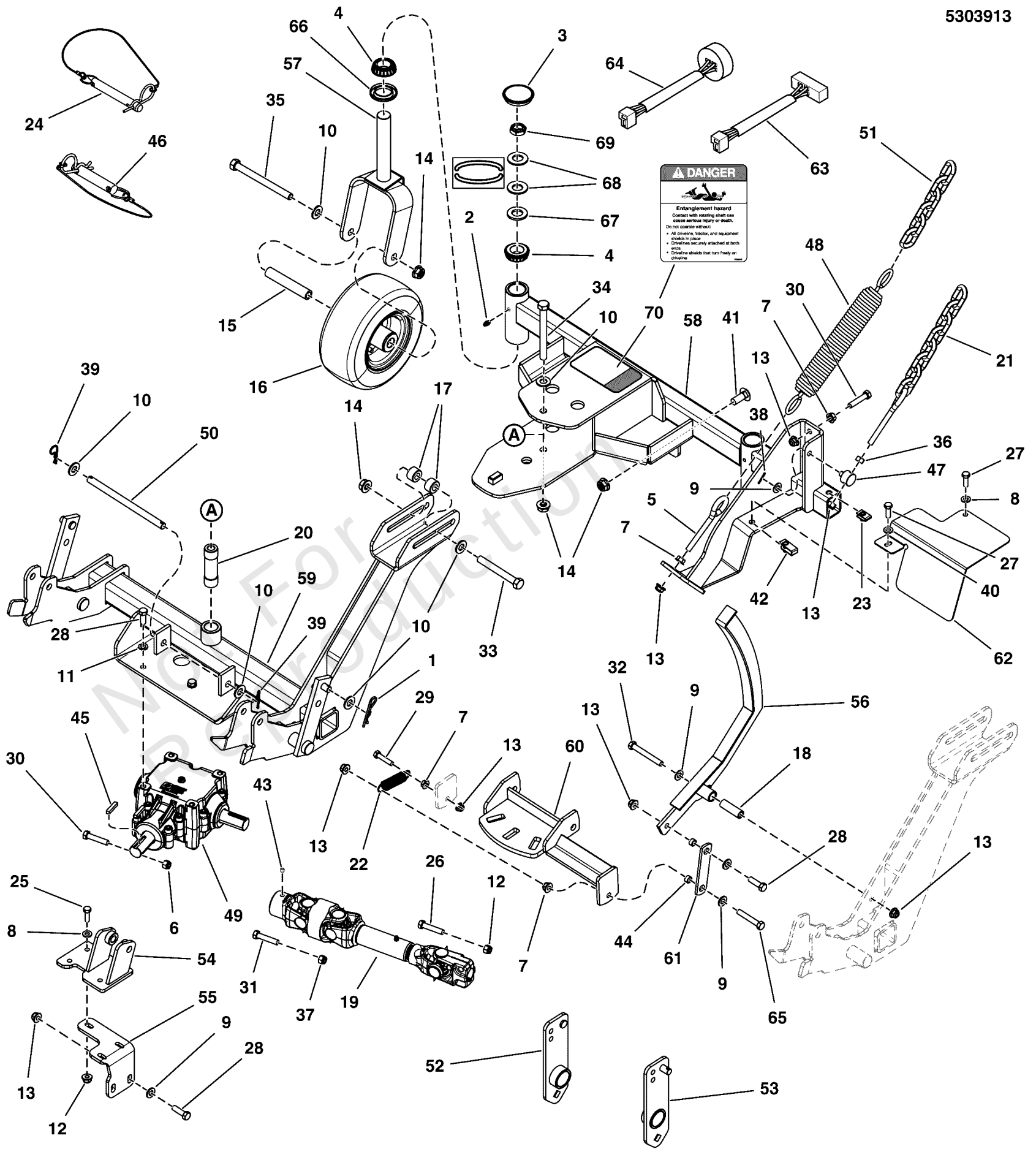
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Hitch Assembly

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5600772

5303913



Hitch Assembly

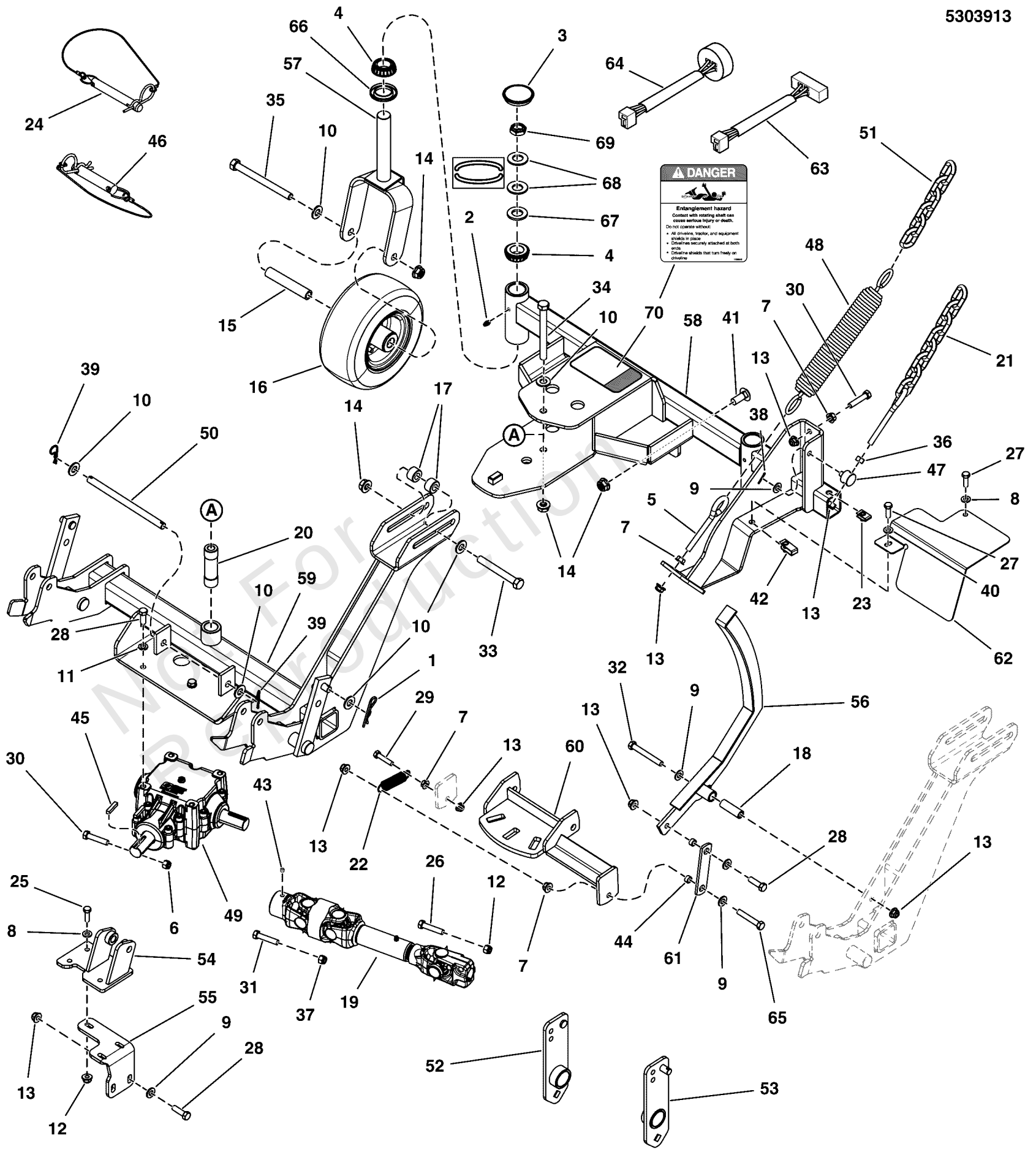
REF NO	PART NO	QTY	DESCRIPTION
1	1960033	2	CLIP-HAIRPIN
2	5020095	3	GREASE FITTING, 1/4-28 STR
3	5109845	2	CAP, GREASE, LOW PROFILE
4	5020884	4	BEARING, TAPERED ROLLER
5	5023497	1	EYE BOLT, 3/8-16 X 5, 2.88THRD, 1EYE, CZ
6	5025096	1	NUT, 3/8-16 HEX NYLON LOCK
7	5025128	3	NUT, 3/8-16 HEX LG. SERR FLG
8	5025155	5	WASHER, 5/16" SAE
9	5025156	11	WASHER, 3/8 SAE
10	5025158	8	WASHER, 1/2 SAE
11	5025171	4	WASHER, 3/8 LOCK
12	5025392	4	NUT, 5/16-18 HEX NYLOCK FLANGE
13	5025394	10	NUT, 3/8-16 HEX NYLOCK FLANGE
14	5025396	6	NUT, Hex Flange, Nylock, 1/2-13
15	5041657	2	AXEL, CASTER WHEEL
16	5100790	2	TIRE ASSM, 9 X 3.5 - 4, FF, CASTER
17	5101161	2	SPACER, .52 X 1.00 X .63 YZ
18	5103274	1	SPACER, .39 X .63 X 1.94
19	5104281	1	DRIVE SHAFT, BROOMHEAD
20	5104322	1	SPACER, .52 X .99 X 3.50
21	5104357	1	HANGER, BROOM - 8LINK
22	1608395	1	SPRING-EXTN 1.040ODX 04.000LG .105WIRE D
23	5022308	1	BODY CLIP, 5/16-18-7GA MATERIAL
24	5023082	1	HITCH PIN ASSY., 1/2 X 3.50
25	5025011X10	4	BOLT, 5/16-18 X 1-1/4" GD5
26	5025011X14	1	BOLT, 5/16-18 X 1-3/4 GD5 CZ
27	5025011X8	2	BOLT, 5/16-18 X 1" GD5
28	5025013X10	8	BOLT, 3/8-16 X 1-1/4" GD5 CZ
29	5025013X12	1	BOLT, 3/8-16 X 1-1/2" GD5 CZ
30	5025013X14	2	BOLT, 3/8-16 X 1-3/4" GD5 CZ
31	5025613	2	SOC HD CAP SCREW, 3/8-24 X 3"
32	5025013X24	1	BOLT, 3/8-16 X 3" GD5 CZ
33	5025017X32	1	BOLT, 1/2-13 X 4" GD5 CZ
34	5025017X40	1	BOLT, 1/2-13 X 5" GD5
35	5025017X48	2	BOLT, 1/2-13 X 6" GD5
36	5025034	1	NUT, 3/8-16 HEX
37	5025097	2	NUT, 3/8-24 HEX NYLON LOCK
38	80002736	1	PIN, 3/32 X 0.750, COT, ZINC/CLEAR
39	5025210	2	PIN, HAIR, .0915 X 1-7/8
40	5025292	1	WASHER, 5/16 F436 FLAT
41	-----	2	CARRIAGE BOLT, 1/2-13 X 1-1/2"
42	5025452	1	BODY CLIP, 5/16-18 -1/4 MATERIAL
43	5025563	2	SET SCREW, 3/8-16 X 1/2 KNURLED
44	5041930	2	SPACER, .38 X .50 X .27, CZ
45	5050407X10	2	KEY, 1/4 SQ. X 1-1/4
46	5100179	2	HITCH PIN ASSEMBLY, 1/2" X 2.50"
47	5100985	1	ADJUSTER, BRAKE LINKAGE
48	5104166	1	SPRING, EXT, 1.5ODX12.25X.234WIRE BLK
49	5104293	1	GEARBOX, SUPERIOR, 3:1
50	5104325	1	ROD, LATCH PIVOT, BROOM
51	5104356X6	1	CHAIN, PEERLESS, 4/0 STRAIGHT COIL, 6-LINK

Hitch Assembly

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Mfg. No: 5600772

5303913



Hitch Assembly

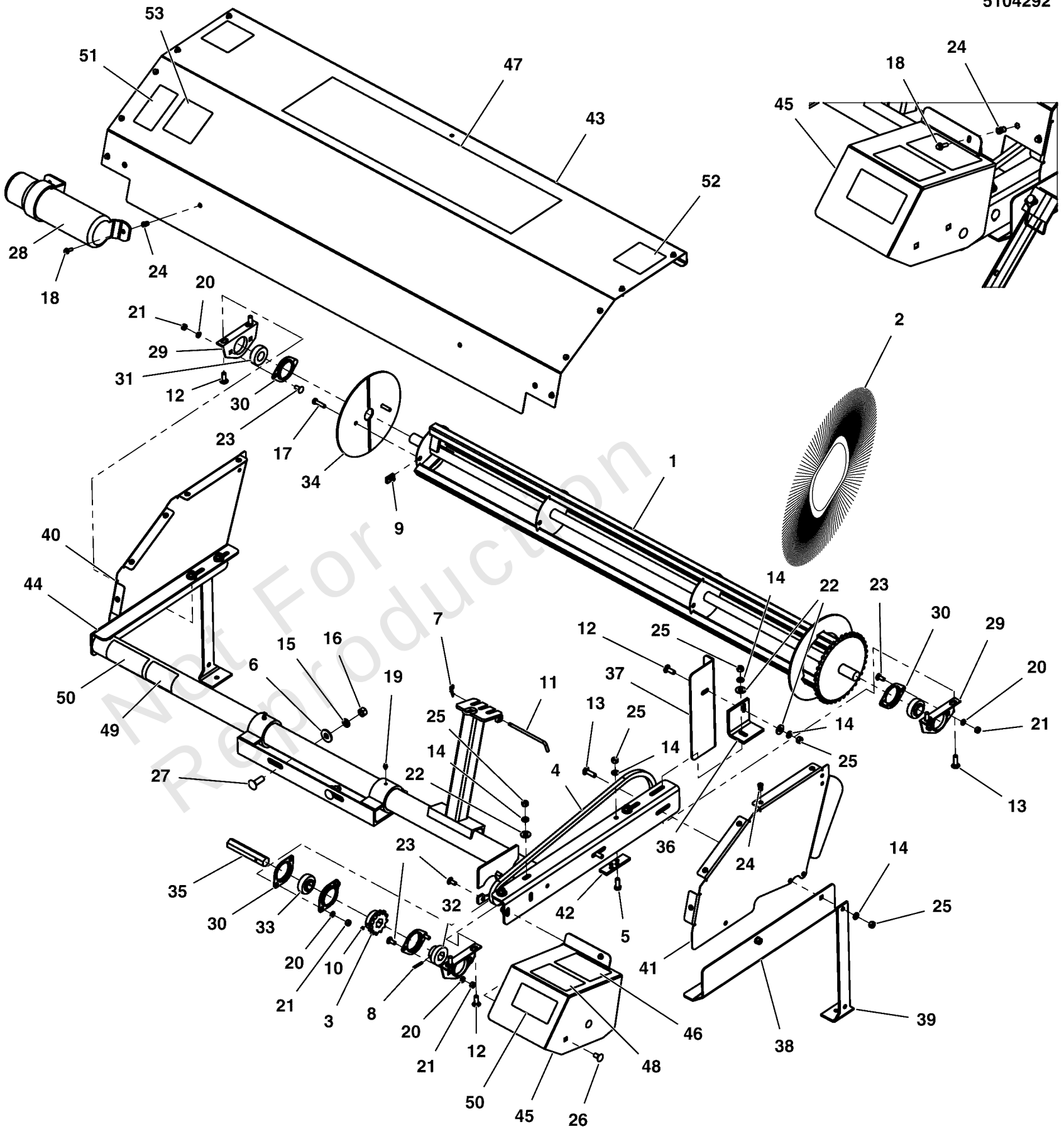
REF NO	PART NO	QTY	DESCRIPTION
52	5405692A	1	WELD., SPRING PVT, SNOW, LH
53	5405693A	1	WELD., SPRING PVT, SNOW, RH
54	5405761A	1	WELD., ACTUATOR MOUNT
55	5405762A	1	PLATE, ACTUATOR MNT. SUPPORT
56	5408774A	1	WELD, BROOM, FOOT PEDAL, S800X
57	5412328A	2	WELD, CASTER YOKE
58	5412391A	1	WELD, MOUNT, BROOM
59	5412413A	1	WELD, MAIN FRAME, BROOM
60	5412460A	1	WELD, ANGLE LOCK
61	5412619A	1	BAR, FOOT PEDAL LINK
62	5412645A	1	GUARD, DRIVESHAFT, INNER
63	5412699	1	WIRE HARNESS, BROOM,S800,RECT CONN -(Models with rectangular electrical connectors.)
64	5412700	1	WIRE HARNESS, BROOM, S800X, ROUND CONN -(Models with round electrical connectors.)
65	5025058X14	1	BOLT, 3/8-16 X 1-3/4 GD5 TFL
66	5021072	2	SEAL, GREASE
67	5025160	2	WASHER, 3/4 SAE
68	5025449	4	WASHER, BELLEVILLE - 1.500 X .755
69	5025448	2	NUT, 3/4-16 HEX JAM NYLON LOCK
70	1756843	1	DANGER DECAL, ENTANGLEMENT HAZARD -(Oriented so that it can be read from left side of hitch.)

Sweeper Assembly

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5600772

5104292



Sweeper Assembly

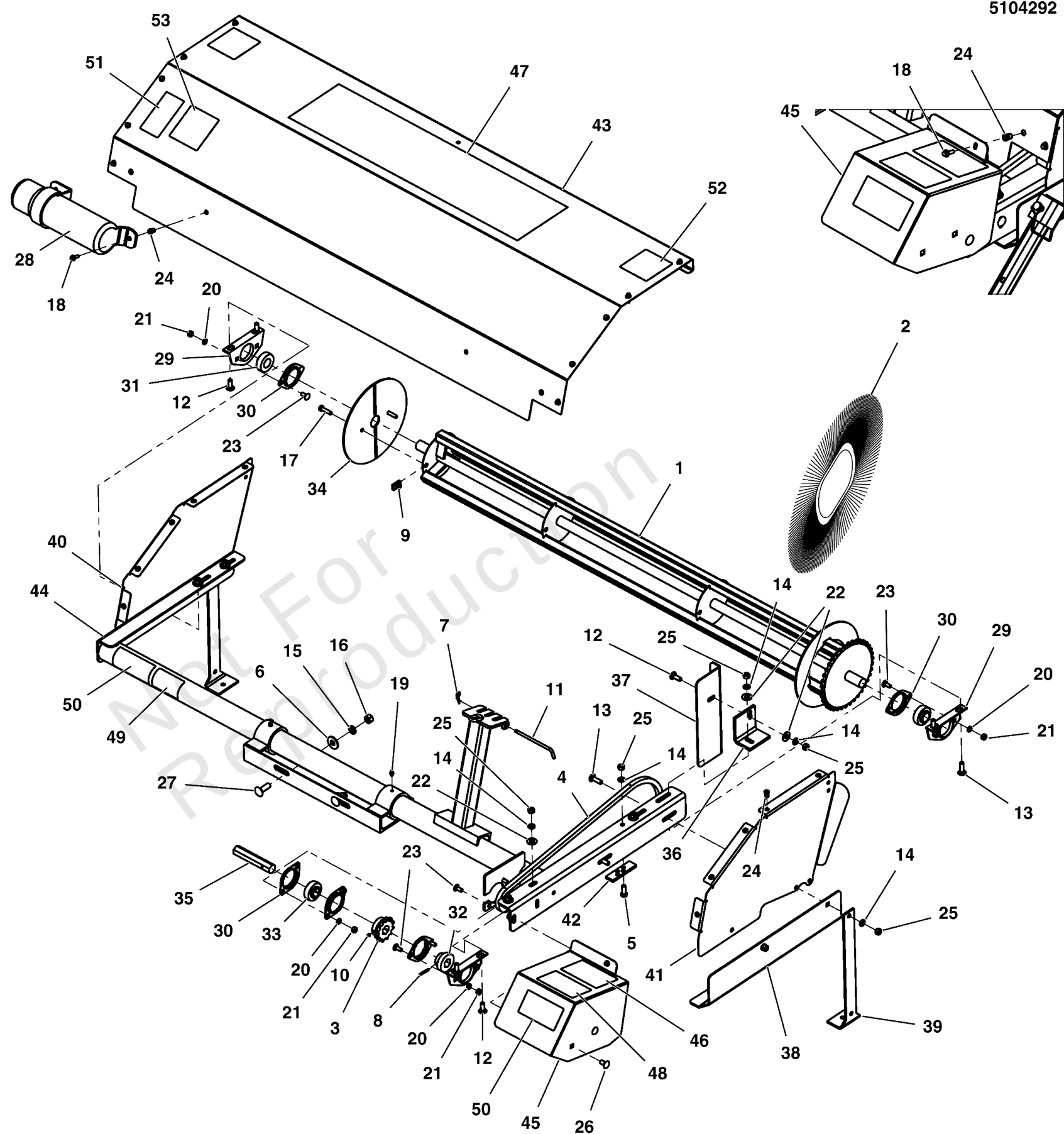
REF NO	PART NO	QTY	DESCRIPTION
1	5104292X1	1	WELD CORE SECT 5 B60 HD -(01-0209)
2	5104292X2	31	SECT 24 P CONV HVY FILL BLACK -(01-5009C)
3	5104292X3	1	SPROCKET 50B12 7/8xHEX** THRU HOLE -(06-0238)
4	5104292X4	1	CHAIN #50 88 LINKS W/MST -(06-0275)
5	-----	1	SCREW HHC GR8 3/8-16 X 1 PLD -(07-0018)
6	-----	2	WASHER FL GR8 1/2 PLD -(07-0156)
7	5104292X7	1	CLIP HAIRPIN 16GAx1 3/8 PLD -(07-0209)
8	5104292X8	1	PIN SPRING LOCK GR2 3/16x1 1/4 BLK OXIDE -(07-0239)
9	-----	2	NUT LOCK STAMPED 5/16-18 TIMMERMAN -(07-0240)
10	-----	1	SCREW, SET, GR2, 1/4-28 X 1/4, CUP PT, PLD -(07-1187)
11	5104292X11	1	PIN CHAIN KEEPER 1/4x4 1/2 PLD -(07-1709)
12	-----	9	BOLT, CRG, GR5, 3/8-16 x 1, YLW DI-CR -(07-1716)
13	-----	2	BOLT CRG GR5 3/8-16x1 1/4 PLD -(07-1717)
14	-----	14	WASHER LOCK SPLIT MED 3/8 PLD -(07-1718)
15	-----	2	WASHER LOCK SPLIT MED 1/2 PLD -(07-1762)
16	-----	2	NUT HEX GR8 1/2-13 PLD -(07-1764)
17	-----	2	SCREW HHC GR8 5/16-18x1 1/4 PLD -(07-1973)
18	5104292X18	13	SCREW HFH CL10.9 M6-1x20 PLD -(07-2952)
19	-----	2	FTG ZERK 1/4-28 SELF TAP -(07-3112)
20	-----	8	WASHER LOCK SPLIT MED 5/16 PLD -(07-3273)
21	-----	8	NUT HEX GR8 5/16-18 PLD -(07-3278)
22	-----	9	WASHER FL GR8 3/8 PLD -(07-3279)
23	5104292X23	8	BOLT CRG GR5 5/16-18x 3/4 PLD -(07-3280)
24	5104292X24	13	NUT INSERT HEX M6x1 -(07-3617)
25	-----	14	NUT HEX GR8 3/8-16 PLD -(07-3654)
26	5104292X26	2	BOLT CRG GR5 3/8-16x3/4 PLD -(07-3699)
27	5104292X27	2	BOLT CRG GR5 1/2-13x1 1/2 PLD -(07-3708)
28	5104292X28	1	MANUAL HOLDER -(07-6869)
29	5104292X29	3	FLANGE BRG PBS ONLY -(08-0003)
30	5104292X30	5	FLANGE BRG 2 HOLE PLD -(08-0005)

Sweeper Assembly

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5600772

5104292



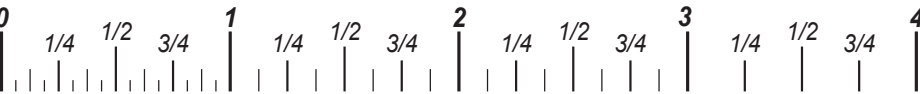
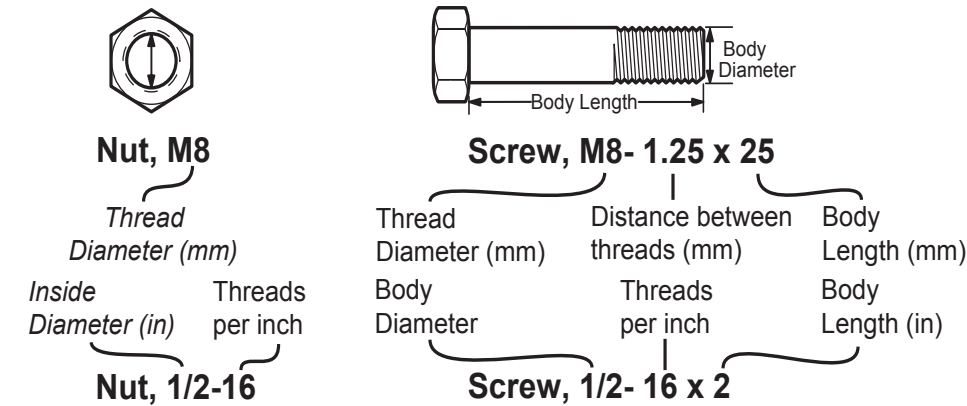
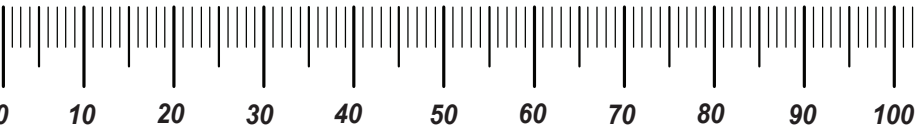
Sweeper Assembly

REF NO	PART NO	QTY	DESCRIPTION
31	5104292X31	2	BEARING 1.00 RD W/COLLAR ONLY -(08-0006)
32	5104292X32	1	BEARING HEX .875 W/HOLE -(08-0034)
33	5104292X33	1	BEARING 7/8 HEX WITHOUT HUB -(08-0037)
34	5104292X34	1	PLATE RETAINER SECT SET C48 -(11-1804)
35	5104292X35	1	SHAFT HEX 7/8x5 W/HOLE @ 1 -(11-3725-37)
36	5104292X36	1	PLATE MTG SHIELD BHEAD -(11-9604)
37	5104292X37	1	SHIELD DRV CORE FRT -(11-9605)
38	5104292X38	1	SHIELD BRSH SIDE RT M24 -(11-9611)
39	-----	2	PLATE SHIPPING STAND M24 -(13-8936)
40	5104292X40	1	SHEET SIDE HOOD LT S26/S30 2004 -(13-13457)
41	5104292X41	1	SHEET SIDE HOOD RT S26/S30 2004 -(13-13458)
42	5104292X42	1	PLATE ADJ STOP M24 -(13-16976)
43	5104292X43	1	SHEET HOOD M24 5 FT -(13-17083-5)
44	5104292X44	1	WELD FRM BRSH 5FT BRIGGS & STRATTON -(13-18529-5)
45	5104292X45	1	SHIELD DRIVE REAR M24 BRIGGS & STRATTON -(13-18537)
46	5104292X46	1	LABEL DANGER ROT DRV LINE -(50-0115)
47	5104292X47	1	LABEL LOGO SWPSTR WHITE XL 7.63x32.00 -(50-0252)
48	5104292X48	1	LABEL, CAUTION, NO STEP -(50-0591)
49	5104292X49	1	LABEL SERIAL # SWEEPSTER COMPLETE -(50-0634)
50	5104292X50	2	LABEL WARNING CRUSH HAZARD 2.50 x 5.00 -(50-0721)
51	5104292X51	1	LABEL WARN MISUSE HAZARD 2.5x4.75 -(50-0722)
52	5104292X52	2	LABEL WARNING FLYING OBJ & ENTANGLEMENT 4.0 x 3.75 -(50-0726)
53	5104292X53	1	DECAL WARNING HAZARDOUS DUST -(41043)

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).

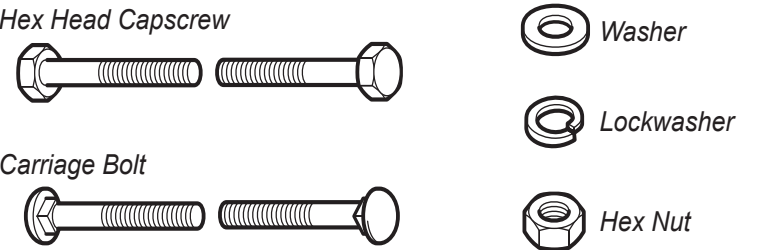
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

