

Parts Manual

Mfg. No: 5601240
61" iCD FAST-Vac; EZ Dump XL 14 cu. ft.
Hopper (ISX3300)

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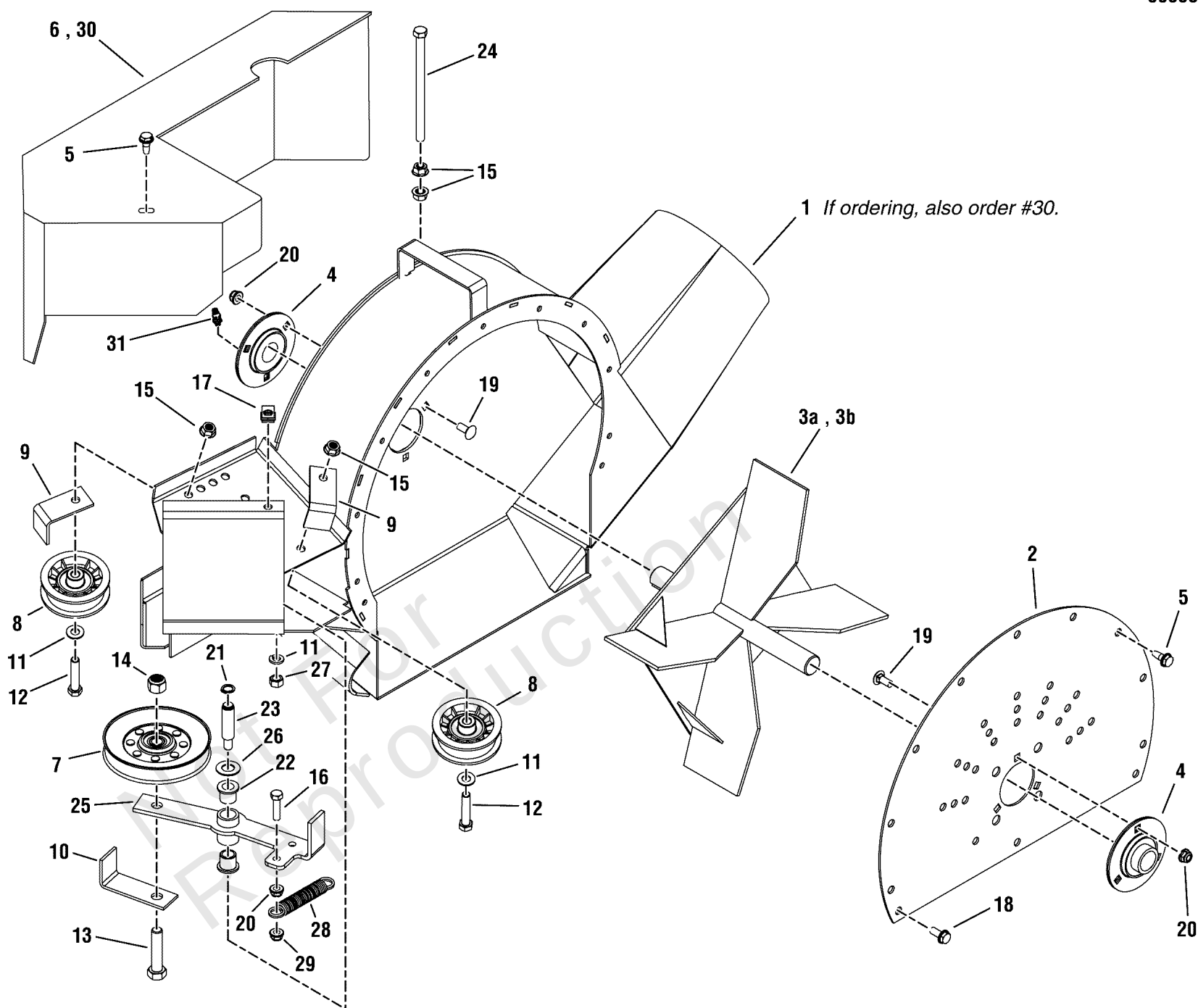
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Blower Group, FAST-Vac

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5601240

5900800



Blower Group, FAST-Vac

REF NO	PART NO	QTY	DESCRIPTION
1	5403723A	1	WELD, BLOWER HOUSING - FAST VAC - BLK
2	5403750A	1	PLATE, BACK - BLK
3a	5407093	1	WELD, IMPELLER, FAST-VAC BLOWER -(S/N: 04/07/2010 & Later)
3b	5403741	1	WELD, IMPELLER, FAST VAC BLOWER -(S/N: 04/06/2010 & Earlier)
4	7100021SM	2	BEARING, FLANGE, 1" Bore -(Torque set screws to 87 in-lbs (9.8 Nm). Use Loctite 271 Threadlocker on threads).
5	7091541	5	BOLT, 5/16-18 X 3/4" Self Tap
6	5403736A	1	WELD, BELT GUARD, BLOWER - BLK -(S/N: 07/14/2013 & Earlier)
7	5021097	1	PULLEY-IDLER-V, 4.85OB, .506 ID, .94W, STL
8	5106480	2	PULLEY, IDLER, 2.75"OD X .37"ID, INSERT
9	5403749A	2	KEEPER, BELT - BLK
10	5403740A	1	RETAINER, BELT - BLK
11	5025156	3	WASHER, 3/8 SAE
12	80003522	2	HHCS, 3/8-16 X 2.00, GR5, ZINC/CLEAR
13	5025017X18	1	BOLT, 1/2-13 X 2-1/4" GD5 CZ
14	5025056	1	NUT, 1/2-13 HEX NYLON LOCK
15	5025128	4	NUT, 3/8-16 Hex Large Serrated Flange
16	5025011X10	1	BOLT, 5/16-18 X 1-1/4" GD5 YZ
17	5022308	3	BODY CLIP, 5/16-18-7GA MATERIAL
18	7091811	6	BOLT, 5/16-18 X 5/8" Self Lock
19	5025145X6	6	BOLT, 5/16-18 X 3/4, CARRIAGE, GD5, CZ
20	5025392	6	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
21	7010776	1	RETAINING RING, 1/2"
22	7014409	2	FLANGE BEARING, 9/16"
23	7044995	1	IDLER STUD
24	5025013X48	1	BOLT, 3/8-16 X 6" GD5 CZ
25	5411358	1	ASSM, IDLER ARM, FAST-VAC
26	5103679	1	WASHER, FLAT, 9/16 ID, 1-1/8 OD, 98THK -Was 5025171
27	5025097	1	NUT, 3/8-24 Hex Nylon Lock -Was 5025097
28	5020807	1	SPRING, Extension
29	7091575	1	NUT, 5/16-18 Hex Center Lock
30	5411464A	1	WELD, Fast-Vac Guard - BLK -(S/N: 07/15/2013 & Later)
31	-----	1	ZERK, Grease Fitting (65 Deg, 1/4-28 Taper Male)

Footnotes:

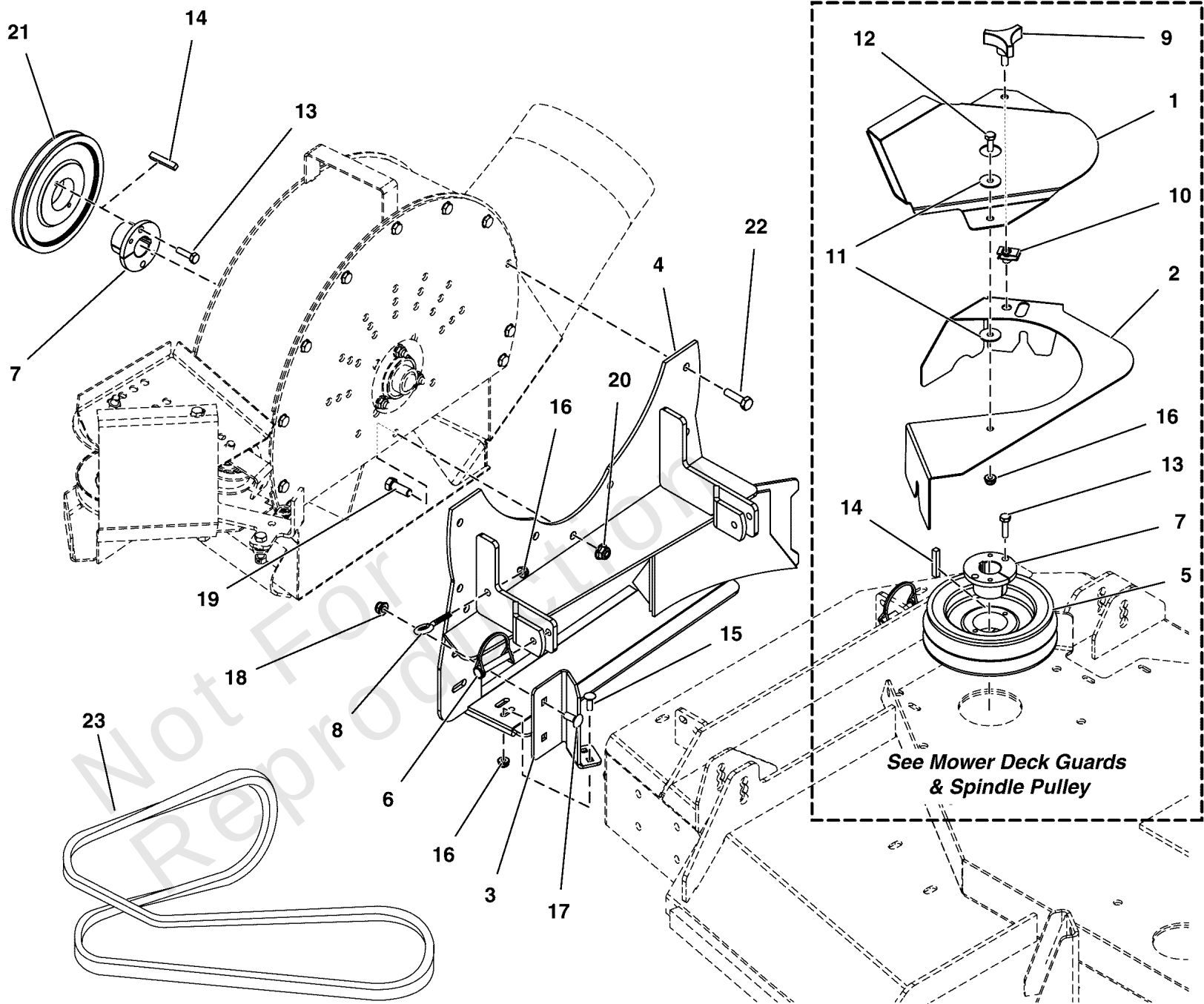
**If replacing, order 5411464A also.

Blower Mount Group - IS3200Z / F320Z Series, FAST-Vac

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5601240

5304154



Blower Mount Group - IS3200Z / F320Z Series, FAST-Vac

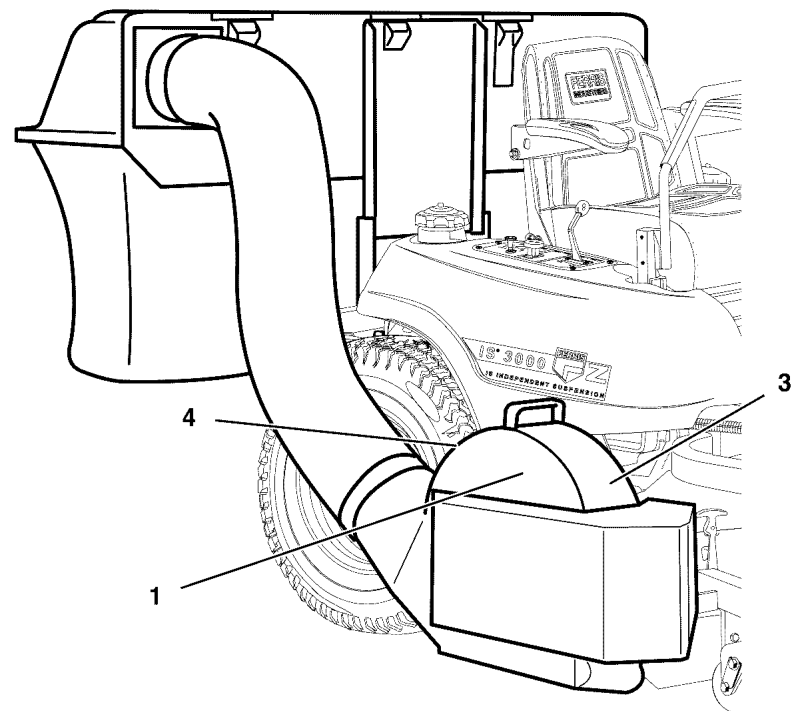
REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	SEE MOWER DECK GUARDS & SPINDLE PULLEY
2	-----	1	SEE MOWER DECK GUARDS & SPINDLE PULLEY
3	5408272A	1	BRACKET, DEFLECTOR PLATE, 61" iCD - BLK
4	5408254A	1	WELD, ADAPTER, 61ICD, FVAC - BLK
5	-----	1	SEE MOWER DECK GUARDS & SPINDLE PULLEY
6	5100847	2	SNAPPERPIN, 5/16 X 2
7	5020819	2	BUSHING, TAPERED HUB
8	5022205	1	EYE BOLT, 1/4-20 X 2.5, 1THRD, .5EYE,CZ
9	5022319	1	KNOB, PLASTIC, 5/16-18 X 3/4
10	5022308	1	BODY CLIP, 5/16-18-7GA MATERIAL
11	5025288	2	WASHER, 1/4 FENDER
12	5025010X6	1	BOLT, 1/4-20 X 3/4 GD5 CZ
13	5025010X8	4	BOLT, 1/4-20 X 1" GD5 CZ
14	5022726	2	KEY 1/4 SQ X 1 1/2 LONG
15	1960252	2	BOLT-RD HD SH SQ NK 1/4-20X0.625 G5 BLK
16	5025391	4	NUT, 1/4-20 HEX NYLOCK FLANGE
17	5025145X6	2	BOLT, 5/16-18 X 3/4, CARRIAGE
18	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE
19	5025013X8	3	BOLT, 3/8-16 X 1" GD5 CZ
20	5025394	3	NUT, 3/8-16 HEX NYLOCK FLANGE
21	5104406	1	PULLEY, SPLIT STEEL, 6.432"OB, HQ BORE
22	5025059X8	6	BOLT, 5/16-18 X 1, SELF-TAPPING
23	5100974	1	BELT, A-SEC, 102.9"EL, ARAMID, WRPD

Decal Group - Fast-Vac Blower S/N: 07/2014 & Above

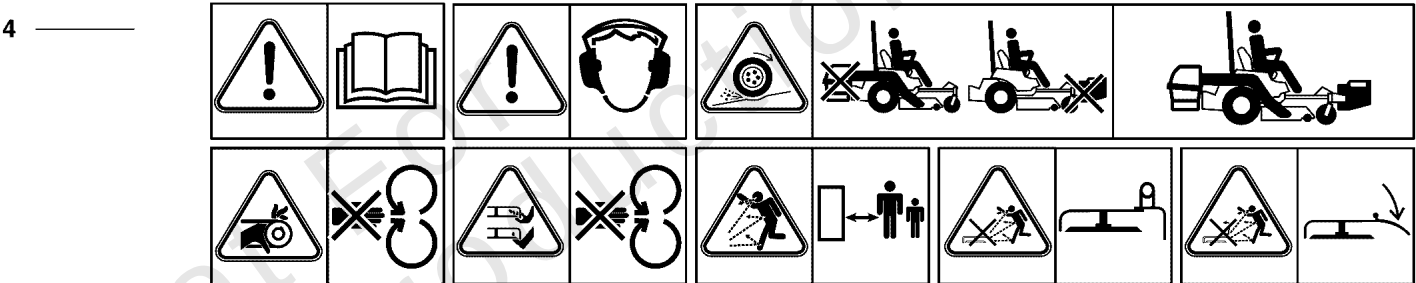
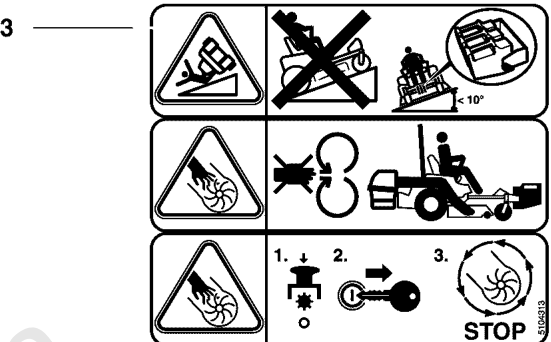
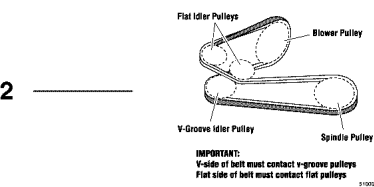
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Mfg. No: 5601240

446dclb1



1 — **FAST-Vac**



Decal Group - Fast-Vac Blower S/N: 07/2014 & Above

REF NO	PART NO	QTY	DESCRIPTION
1	3046944	1	DECAL, FAST-VAC
2	5100081	1	DECAL, BELT ROUTING
3	5104313	1	DECAL, BLOWER, SMALL, ICONS
4	5104314	1	DECAL, BLOWER, MAIN, LARGE, ICONS

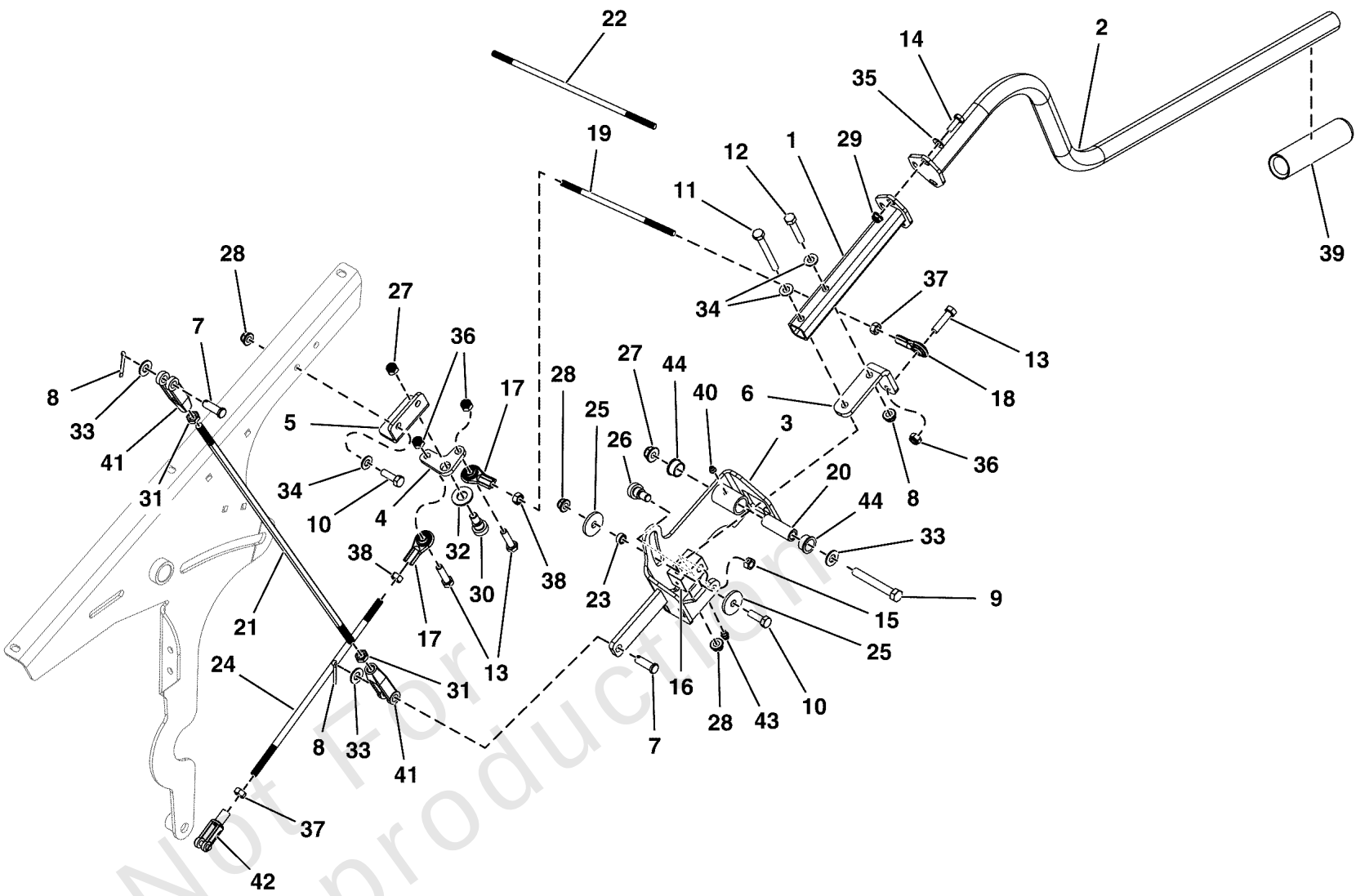
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Dump Handle Group

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Mfg. No: 5601240

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Dump Handle Group

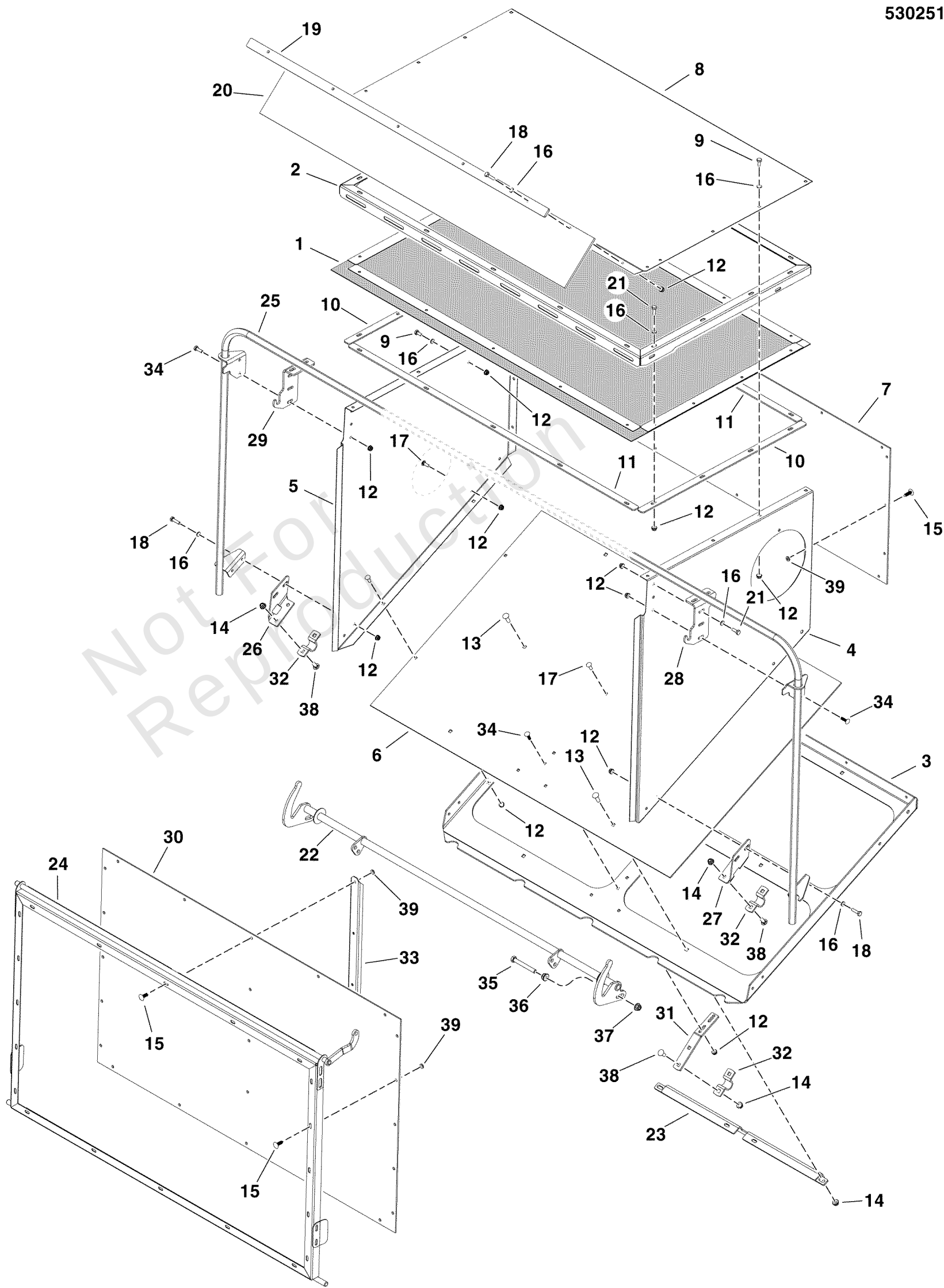
REF NO	PART NO	QTY	DESCRIPTION
1	5414426A	1	WELD, STUB SHAFT, HOPPER - BLK
2	5414424A	1	WELD, HANDLE, DUMP - BLK
3	5414387A	1	WELD, HANDLE MOUNT, HOPPER - BLK
4	5414383A	1	PLATE, PIVOT, HOPPER - BLK
5	5414382A	1	BRACE, PIVOT, HOPPER - BLK
6	5414381A	1	PLATE, HINGE, LOWER - BLK
7	5025214X9	2	PIN, CLEVIS, 3/8 X 1-1/8, PLATED
8	80002736	2	PIN, 3/32 X .750, COT, ZINC/CLEAR
9	5025013X22	1	BOLT, 3/8-16 X 2-3/4" GD5 CZ
10	5025011X8	3	BOLT, 5/16-18 X 1 GD5 CZ
11	5025011X22	1	BOLT, 5/16-18 X 2-3/4 GD5 CZ
12	5025011X14	1	BOLT, 5/16-18 X 1-3/4 GD5 CZ
13	5025011X10	3	BOLT, 5/16-18 X 1-1/4 GD5 CZ
14	5025010X6	3	BOLT, 1/4-20 X 3/4 GD5 CZ
15	80003675	1	NUT, 5/16-18, HEX, CNTR LK,ZINC PHOS/OIL
16	5104828	1	BLOCK, PIVOT, HANDLE, CZ
17	5104579	2	BALL JOINT 5/16-24 LH FEMALE STAMPED STL
18	5104578	1	BALL JOINT 5/16-24 RH FEMALE STAMPED STL
19	5103674	1	ROD, 5/16 X 7.00, LH-RH, CZ -(12 cu. Ft. Hoppers Only)
20	1657242	1	SPACER-0.390ID 0.625OD 1.85 LG HARDENED
21	5102630	1	ROD, GATE PULL, HOPPER
22	5102064	1	ROD, 5/16 X 10.25, CZ -(14 cu. Ft. Hoppers Only)
23	1666697	1	SPACER-0.328ID 0.497OD 0.218LG PM
24	5046420	1	ROD, HYDRO LINKAGE, CZ
25	5044617	2	WASHER, .34 X 1.25 X 10 GA
26	5025627	1	BOLT, 5/16-18, 3/8 X 1-1/4 SHOULDER
27	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
28	5025392	5	NUT, 5/16-18 HEX NYLOCK FLANGE
29	5025391	3	NUT, 1/4-20 HEX NYLOCK FLANGE
30	5025356	1	BOLT, 3/8-16 X 3/8, 1/2 SHOULDER
31	5025309	2	NUT, 3/8-24 HEX JAM
32	5025158	1	WASHER, 1/2 SAE
33	5025156	3	WASHER, 3/8 SAE
34	5025155	7	WASHER, 5/16" SAE
35	5025154	3	WASHER, 1/4 SAE
36	5025057	3	NUT, 5/16-18 HEX NYLON LOCK
37	5025033	2	NUT, 5/16-24 HEX
38	5023212	2	NUT, 5/16-24 HEX, LH
39	5104659	1	GRIP, FOAM, .940" X 4.62" X .187"
40	5021637	1	GREASE FITTING, PRESS, SHORT
41	5101800YP	2	CLEVIS, 3/8-24 RH
42	5020980FS	1	CLEVIS -(Includes clevis pin and cotter pin)
43	5020095	1	GREASE FITTING, 1/4-28 STRAIGHT
44	1676148	2	BUSHING-0.628IDX0.751ODX0.400LG PWDR MTL

Hopper Group - 14 cu. ft.

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Mfg. No: 5601240

5302514



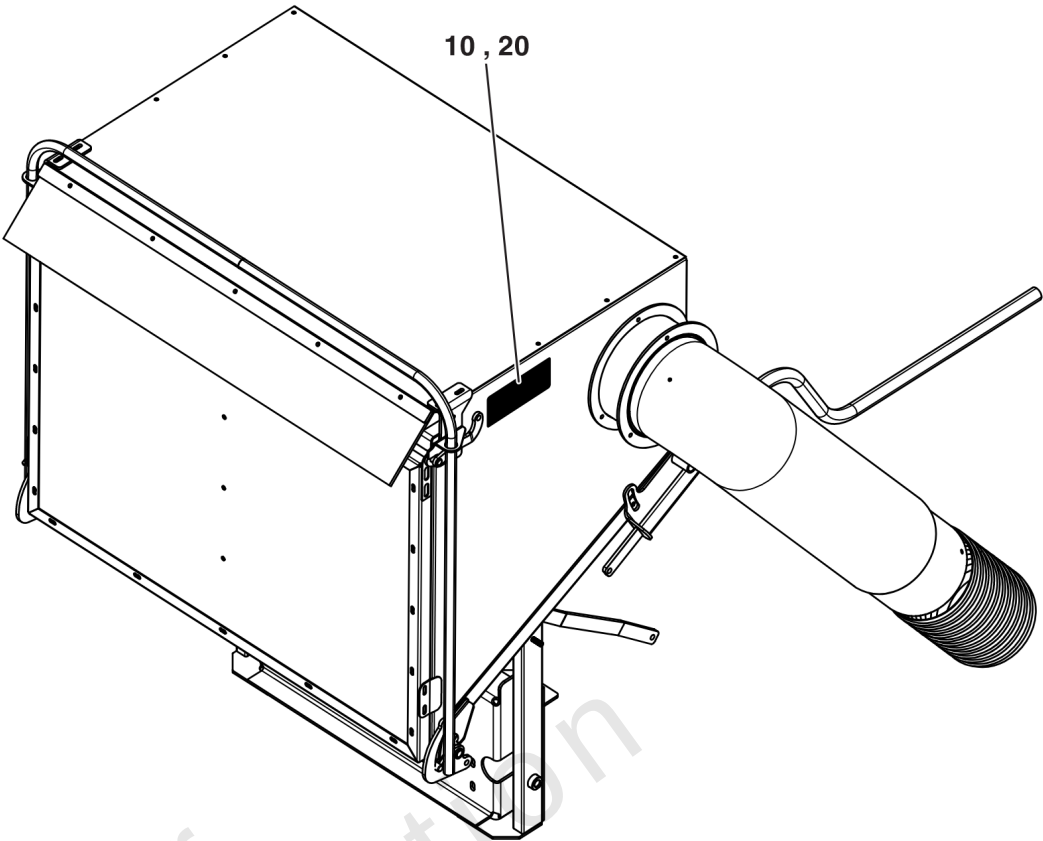
Hopper Group - 14 cu. ft.

REF NO	PART NO	QTY	DESCRIPTION
1	5102890	1	SCREEN, ASM, COLLECTOR
2	5406311A	1	WELD, SCREEN FRAME - BLK
3	5406778A	1	WELD, SUBFRAME, HOPPER - BLK
4	5406321A	1	PANEL, RIGHT, 14FT HOPPER - BLK
5	5406320A	1	PANEL, LEFT, 14FT HOPPER
6	5406322	1	PANEL, BOTTOM, 14FT HOPPER
7	5406318	1	PANEL, FRONT, 14FT HOPPER
8	5406319A	1	PANEL, TOP, 14FT HOPPER - BLK
9	-----	7	HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR
10	5407171A	2	STRIP, SCREEN CLAMP, SHORT - BLK
11	5407172A	2	STRIP, SCREEN CLAMP, LONG - BLK
12	5025391	55	NUT, 1/4-20 Hex Nylock Flange
13	5025145X8	6	BOLT, 5/16-18 X 1, CARRIAGE, GD5, CZ
14	5025392	12	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
15	5025431	39	PUSH RIVET (TREE TYPE), BLACK
16	5025154	40	WASHER, 1/4 SAE
17	80003518	7	BOLT,1/4-20X0.750,GR5,STD NECK,SQ,ZC/CL
18	5025010X8	11	BOLT, 1/4-20 X 1" GD5 CZ
19	5407607A	1	BAR, DEFLECTOR - BLK
20	5102901	1	DEFLECTOR, RUBBER, HOPPER
21	5025010X6	22	BOLT, 1/4"-20 X 3/4" GD5 YZ
22	5407209A	1	WELD, LATCH ASSY, GATE - BLK
23	5407533A	1	WELD, SUPPORT BRACKET - BLK
24	5406762A	1	WELD, ASSY, GATE FRAME - BLK
25	5406248A	1	WELD, ARCH ASSEMBLY - BLK
26	5406463A	1	BRACKET, GATE LATCH, LEFT - BLK
27	5406464A	1	BRACKET, GATE LATCH, RIGHT - BLK
28	5405711A	1	PLATE, HINGE RIGHT, HOPPER - BLK
29	5405710A	1	PLATE, HINGE LEFT, HOPPER - BLK
30	5406792	1	PANEL, HDPE, GATE, HOPPER
31	5406465A	1	BRACE, CENTER, SHAFT - BLK
32	1761690HYP	3	STRAP, ROCKER SHAFT
33	5406760A	1	BRACKET, RIB, HOPPER - BLK
34	7090496YP	8	RHSSNB, 1/4C X1 GR5 Z
35	5025013X24	2	BOLT, 3/8-16 X 3" GD5 CZ
36	5025128	2	NUT, 3/8-16 Hex Large Serrated Flange
37	5025394	2	NUT, 3/8 - 16 HEX NYLOCK FLANGE
38	5025145X6	6	BOLT, 5/16-18 X 3/4, CARRIAGE, GD5, CZ
39	5025607	39	WASHER, #12 SAE FLAT, .25X.531X.051, CZ

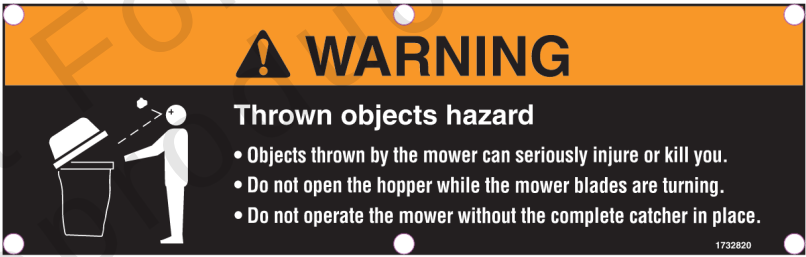
Hopper Group - Decals

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Mfg. No: 5601240



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Hopper Group - Decals

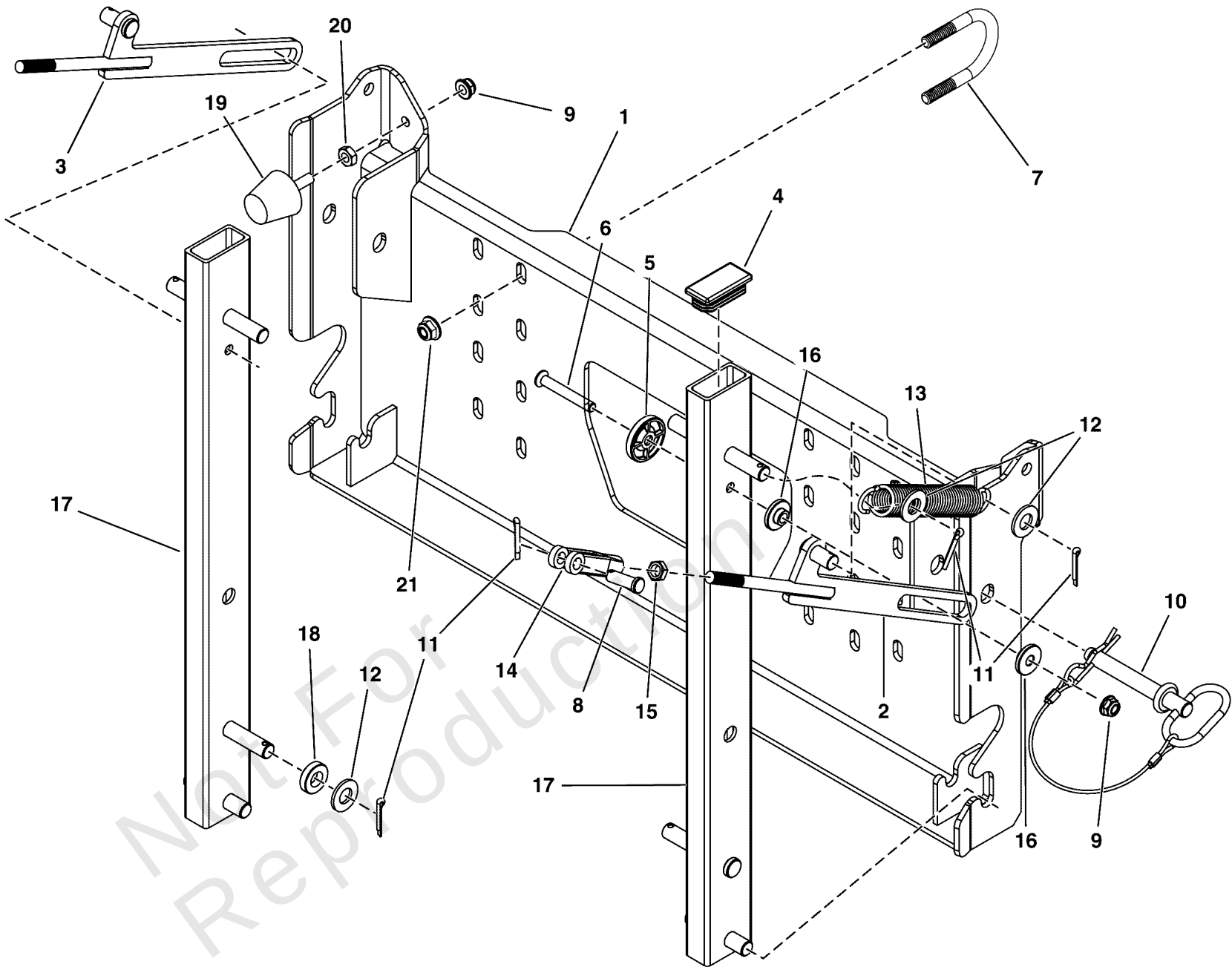
REF NO	PART NO	QTY	DESCRIPTION
10	1732820SM	1	DECAL, Safety -(S/N: 06/2014 & Below)
20	5104315FS	1	DECAL -(S/N: 07/2014 & Above)

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Hopper Mount Group

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Mfg. No: 5601240



Hopper Mount Group

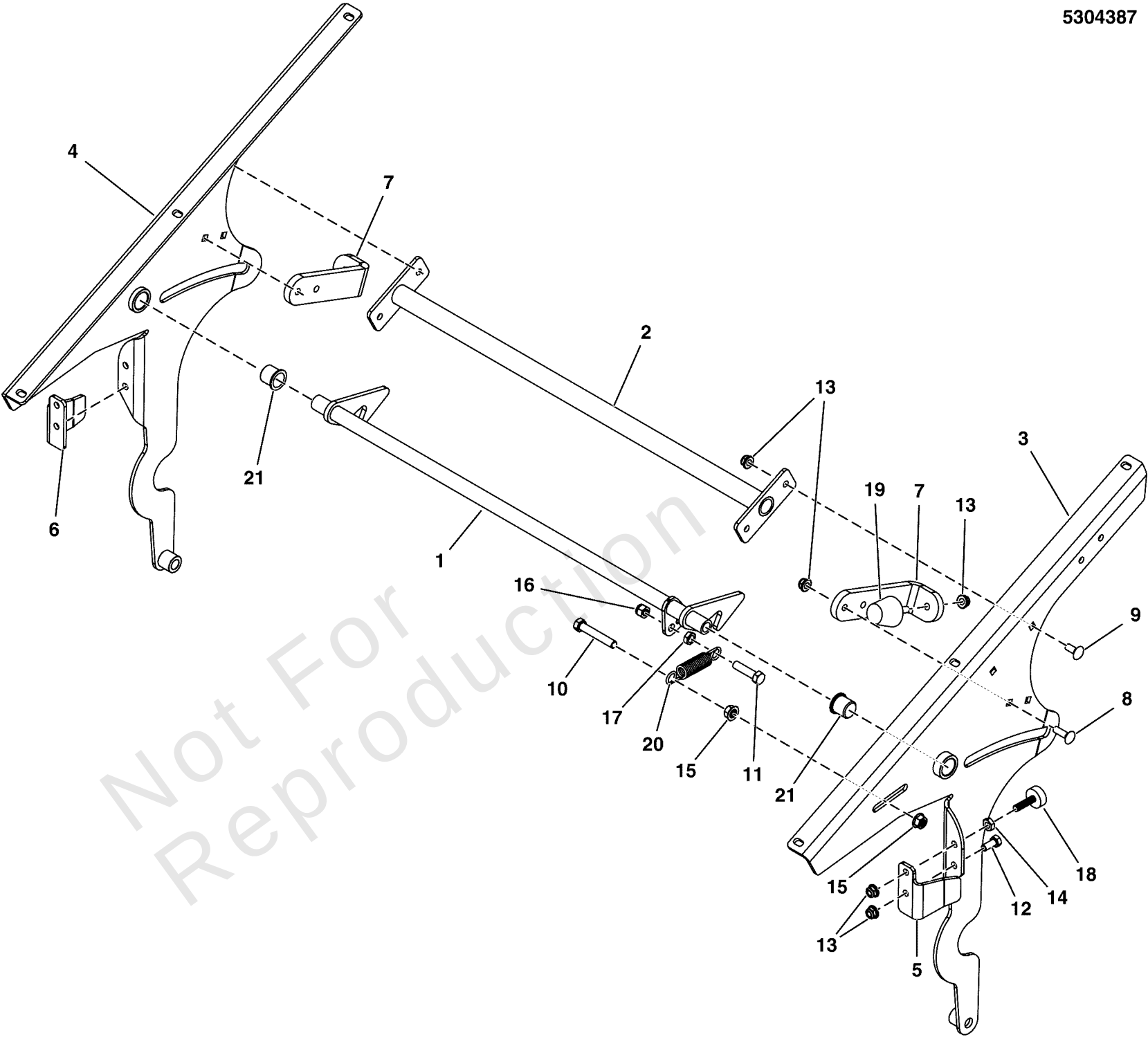
REF NO	PART NO	QTY	DESCRIPTION
1	5420002AA	1	WELD, HOPPER MOUNT, 2200/3300 - BLK
2	5414565A	1	WELD, RIGHT LATCH PULL, ZTR - BLK
3	5414566A	1	WELD, LEFT LATCH PULL, ZTR - BLK
4	5102392	2	PLUG, 1 X 2, 10-14 GA. TUBING
5	5102701	2	SPACER, .34 X 1.54 X .25 - UHMW
6	5025303X18	2	SCREW, 5/16-18X2.25, FLAT HEAD SOC, CZ
7	5100009	4	U-BOLT, 3/8" X 1-1/4"
8	5025214X9	2	PIN, CLEVIS, 3/8 X 1-1/8, PLATED
9	5025392	4	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
10	5100013	2	PIN, HITCH, .50 X 3.25 W/ LAY (SV)
11	80002736	8	PIN, 3/32 X 0.750, COT, ZINC/CLEAR
12	5025158	8	WASHER, 1/2 SAE
13	1715435	2	SPRING, EXTENSION, 1.00
14	5101800YP	2	CLEVIS, 3/8-24 RH
15	5025309	2	NUT, 3/8-24 Hex Jam
16	1723244	4	SPACER, HYDRAULIC LIFT PIVOT
17	5414454A	2	WELD, SUPPORT TUBE, HOPPER - BLK
18	5101376	2	SPACER, .52 X 1.00 X .25, CZ
19	5022612	2	BUMPER, RUBBER 5/16-18
20	5025388	2	NUT, 5/16-18 HEX JAM
21	5025394	8	NUT, 3/8 - 16 HEX NYLOCK FLANGE

Hopper Support Group

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Mfg. No: 5601240

5304387



Hopper Support Group

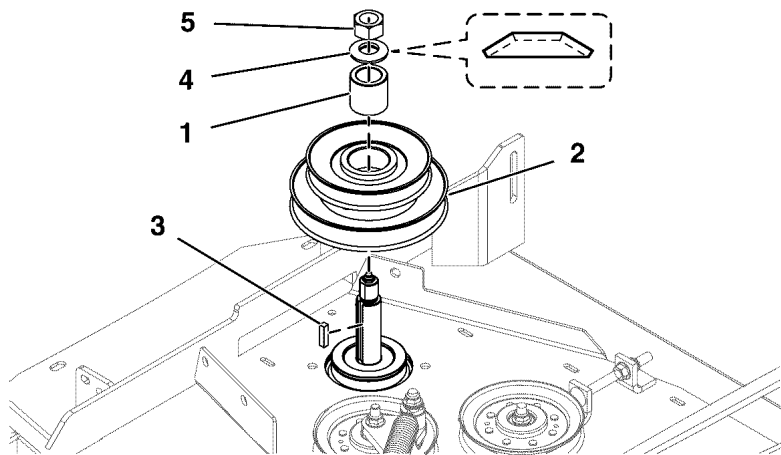
REF NO	PART NO	QTY	DESCRIPTION
1	5414572A	1	WELD, LATCH ASSY, CENTER - BLK
2	5414570A	1	WELD, CROSS MEMBER - BLK
3	5414448A	1	WELD, RIGHT SUPPORT, HOPPER - BLK
4	5414447A	1	WELD, LEFT SUPPORT, HOPPER - BLK
5	5414357A	1	BRACKET, RIGHT KEEPER - BLK
6	5414356A	1	BRACKET, LEFT KEEPER - BLK
7	5407170A	2	BAR, STOP, HOPPER - BLK
8	5025145X8	4	BOLT, 5/16-18 X 1, CARRIAGE
9	5025145X6	4	BOLT, 5/16-18 X 3/4, CARRIAGE
10	5025013X18	1	BOLT, 3/8-16 X 2-1/4" GD5 CZ
11	5025013X12	1	BOLT, 3/8-16 X 1-1/2" GD5 CZ
12	5025011X6	2	BOLT, 5/16-18 X 3/4 GD5
13	5025392	14	NUT, 5/16-18 HEX NYLOCK FLANGE
14	5025388	2	NUT, 5/16-18 HEX JAM
15	5025128	2	NUT, 3/8-16 HEX SERRATED FLANGE
16	5025096	1	NUT, 3/8-16 HEX NYLON LOCK
17	5025084	1	NUT, 3/8-16 HEX JAM
18	5022807	2	BUMPER, RUBBER, 5/16-18
19	5022612	2	BUMPER, RUBBER 5/16-18
20	5021242	1	SPRING, EXTENSION
21	2176440	2	BUSHING-0.765ID 0.885OD 0.877LG NYLON

Mower Deck Guards & Spindle Pulley - 2-Belt Driven Mower Decks

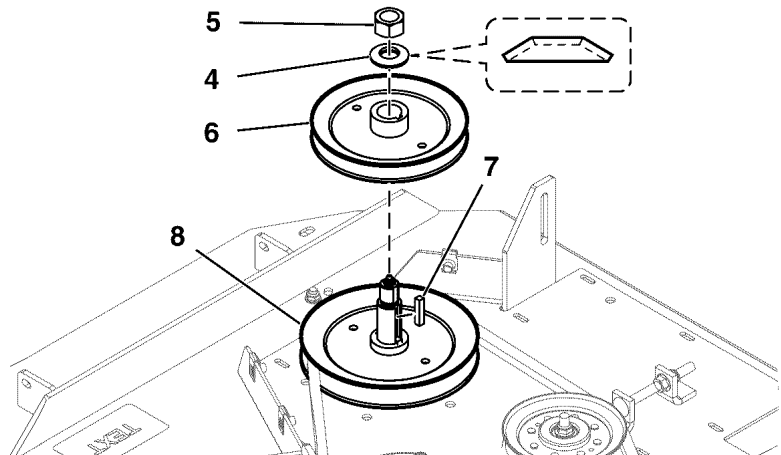
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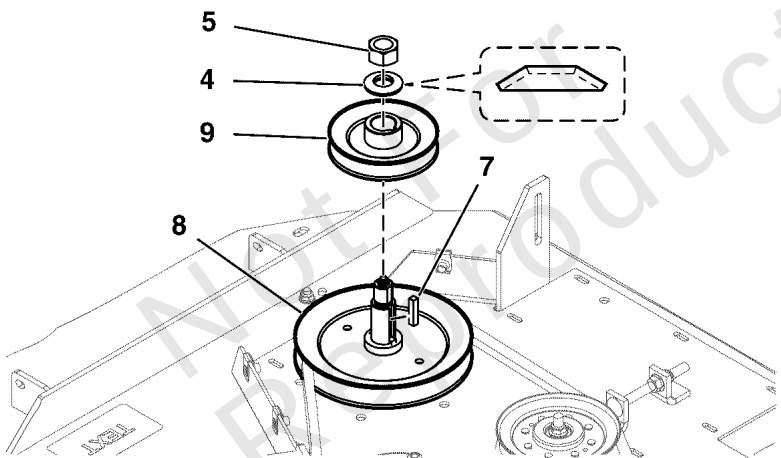
52" Mower Decks
(5303119, 5303823, 5303088)



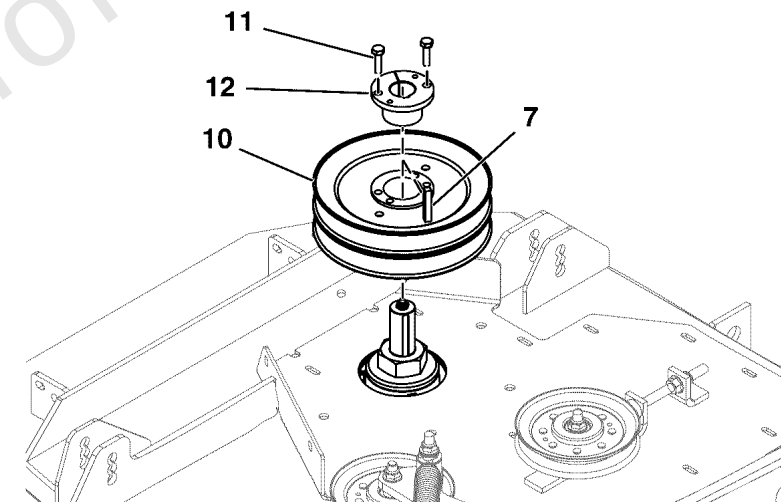
5303116 5303821 5303119 5303823
5303088 5304154 5304153
61" Mower Decks - Fast-Vac Collection Systems
(5303116)



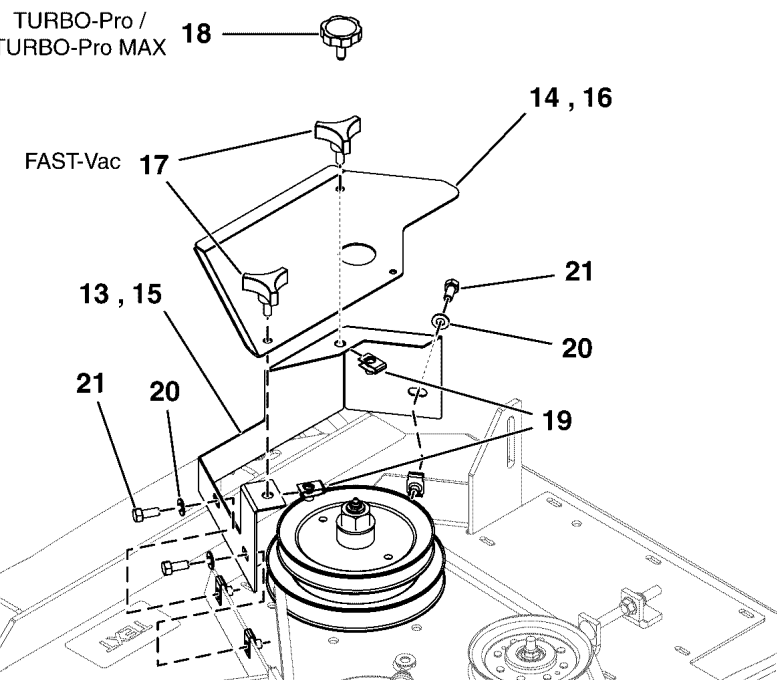
61" Mower Decks - TURBO-Pro MAX Collection Systems
(5303821)



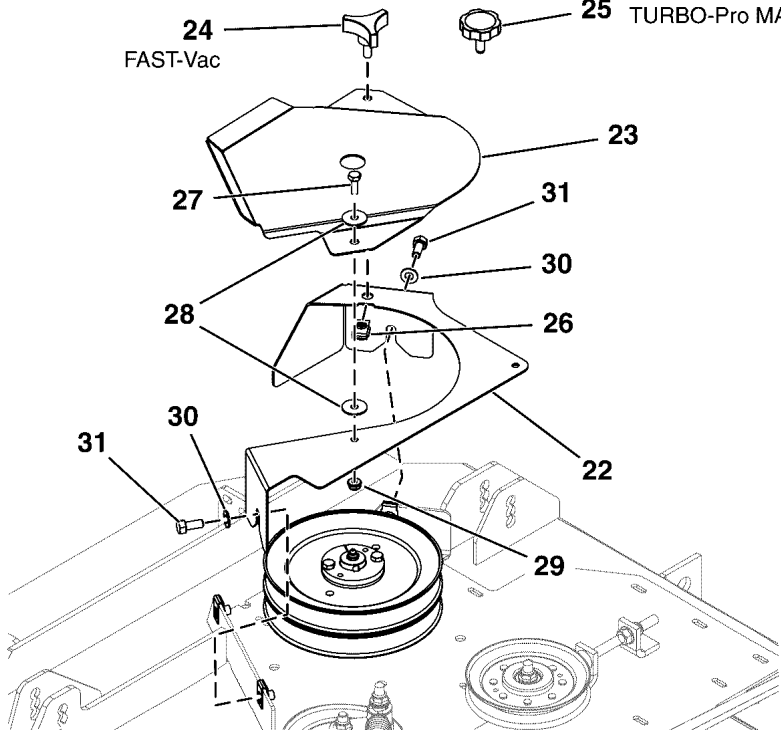
61" Mower Decks w/ Tapered Hub
(5304153, 5304154)



All Other Models
(5303119, 5303823, 5303088, 5303116, 5303821)



61" Mower Decks w/ Tapered Hub
(5304153, 5304154) TURBO-Pro / TURBO-Pro MAX



Mower Deck Guards & Spindle Pulley - 2-Belt Driven Mower Decks

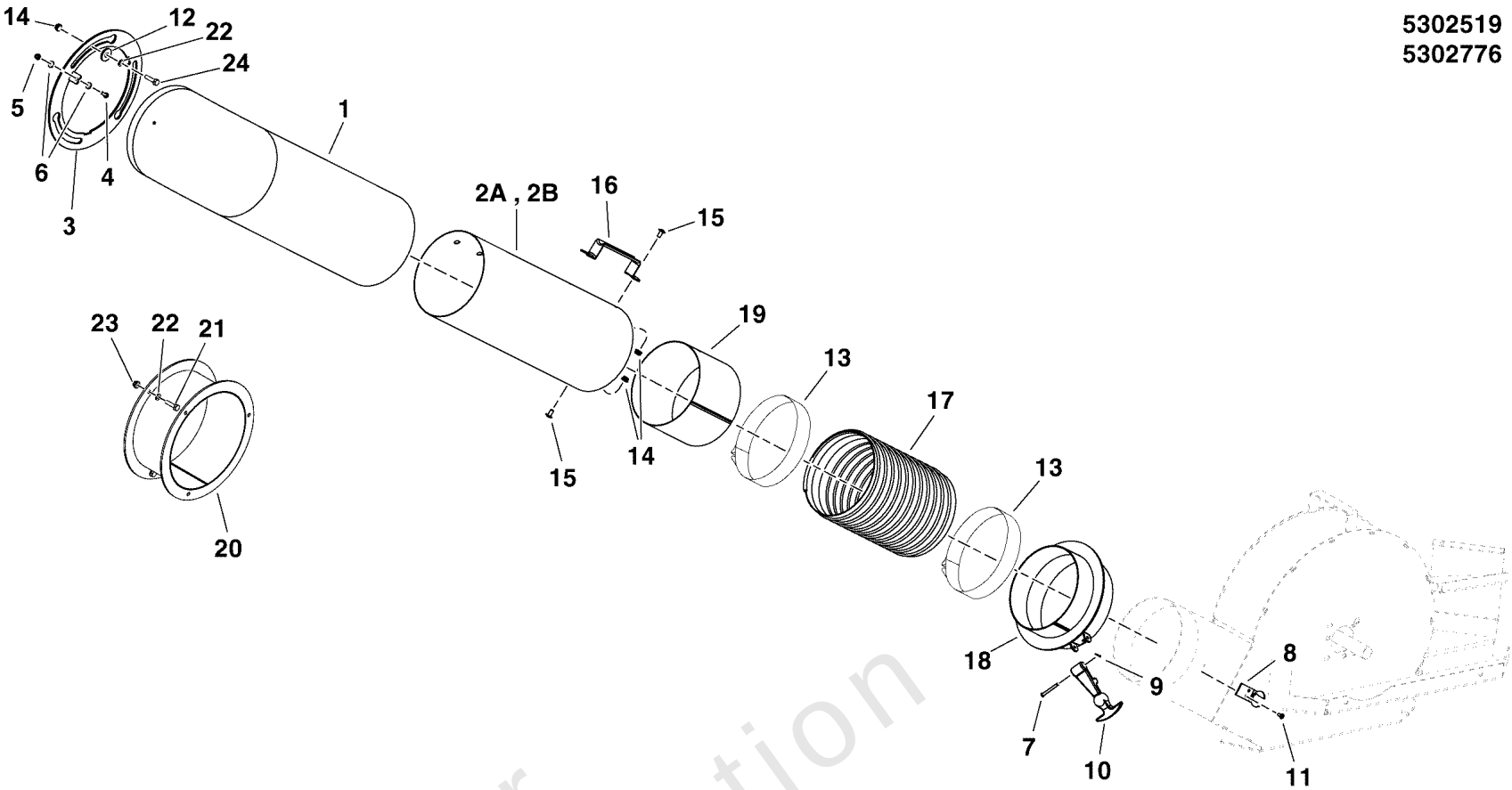
REF NO	PART NO	QTY	DESCRIPTION
1	5105339	1	SPACER, 1.00"ID X 1.50"OD X 1.48", BZ -(52" Mower Decks)
2	5023177	1	PULLEY, BLOWER 52" DECK -(FAST-Vac Units)
2	5103468	1	PULLEY, DOUBLE, 52" DECK -(TURBO-Pro / TURBO-Pro MAX Units)
3	5022726	1	KEY 1/4 SQ X 1 1/2 LONG
4	5025406	1	WASHER, 3/4 BELLEVILLE CL/ZC -(Existing Components on Deck)
5	5025405	1	NUT, 3/4-16 Hex -(Existing Components on Deck)
6	5105338	1	PULLEY, V SPINDLE, 4.30"OB X .985"ID
7	5022726	1	KEY 1/4 SQ X 1 1/2 LONG
8	-----	0	EXISTING MOWER DECK PULLEY
9	5105334	1	PULLEY, V SPINDLE, 6.18"OB X .985"ID
10	5105006	1	PULLEY, SPNDL, 7.032"OB-DBL, HQ BORE
11	5025010X8	2	BOLT, 1/4-20 X 1" GD5 CZ
12	5020819	1	BUSHING, Tapered Hub
13	5416222AA	1	GUARD, PULLEY, BLWR -BLK -(61" Mower Decks)
14	5416223AA	1	GUARD, BLOWER BELT - BLK -(61" Mower Decks)
15	5416220AA	1	GUARD, DECK PULLEY - BLK -(52" Mower Decks)
16	5416221AA	1	PLATE, BELT GUARD - BLK -(52" Mower Decks)
17	5022319	2	KNOB, PLASTIC, 5/16-18 X 3/4" -(FAST-Vac Units)
18	5101731	2	KNOB, 5/16-18 X 1.00, ROSETTE BLACK -(TURBO-Pro / TURBO-Pro MAX Units)
19	5022308	2	BODY CLIP, 5/16-18-7GA MATERIAL
20	5025155	3	WASHER, 5/16" SAE
21	5025011X6	3	BOLT, 5/16-18 X 3/4 GD5
22	5416224AA	1	GUARD, DECK PULLEY, IS3200-61, RH - BLK
23	5413841AA	1	SHIELD, BELT, 3200-61", BLOWER - BLK
24	5022319	1	KNOB, PLASTIC, 5/16-18 X 3/4" -(FAST-Vac Units)
25	5101731	1	KNOB, 5/16-18 X 1.00, ROSETTE BLACK -(TURBO-Pro / TURBO-Pro MAX Units)
26	5022308	1	BODY CLIP, 5/16-18-7GA MATERIAL
27	5025010X6	1	BOLT, 1/4"-20 X 3/4" GD5 YZ
28	5025288	2	WASHER, 1/4" Fender
29	5025391	1	NUT, 1/4-20 Hex Nylock Flange
30	5025155	2	WASHER, 5/16" SAE
31	5025011X6	2	BOLT, 5/16-18 X 3/4 GD5

Tube Assembly

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5601240

5302519
5302776



Not For
Reproduction

Tube Assembly

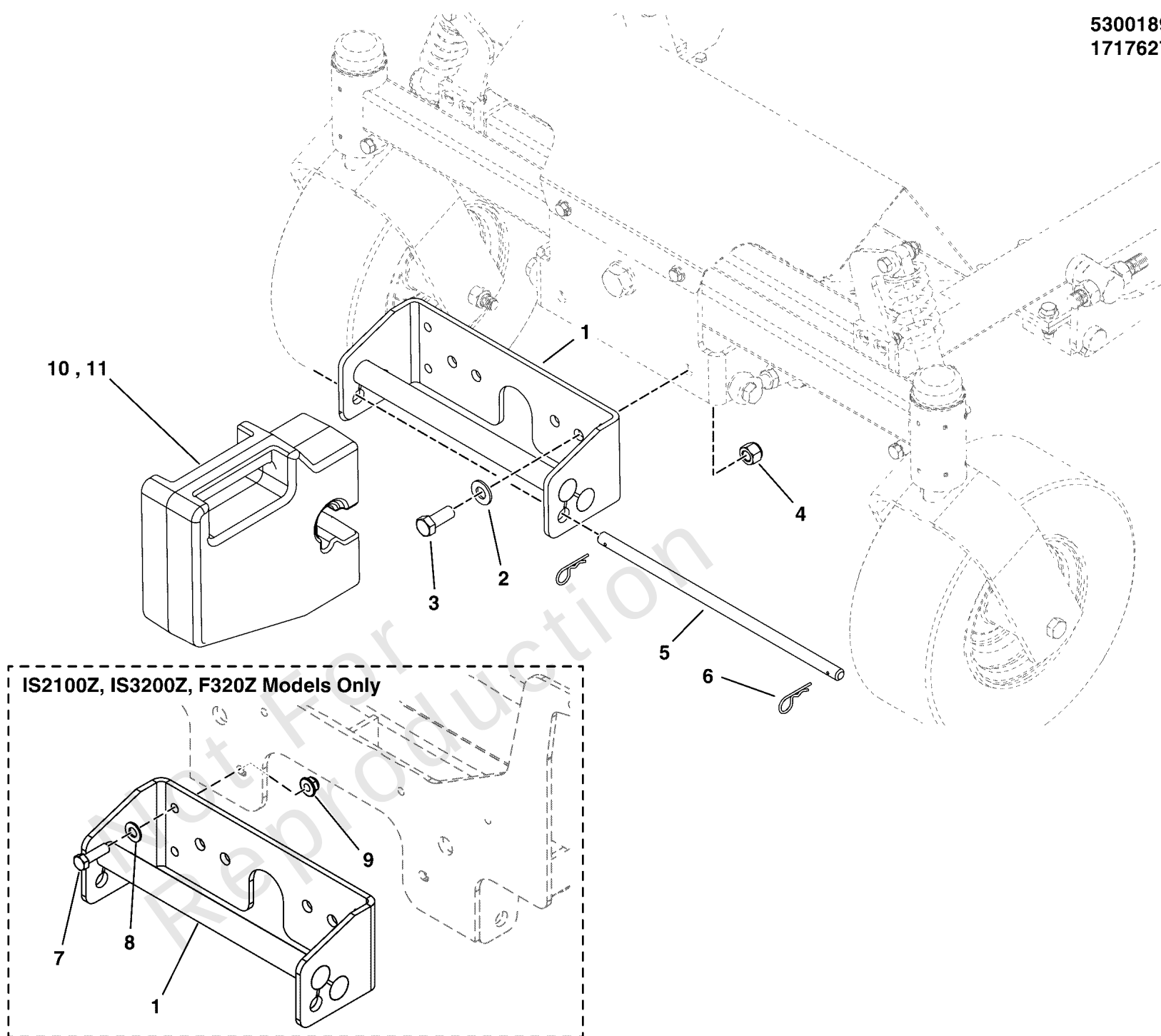
REF NO	PART NO	QTY	DESCRIPTION
1	5407079	1	ELBOW, ABS PLASTIC, HOPPER
2A	5102388	1	TUBE, IS3100Z, FAST-VAC -(ZTR Models)
2B	5102387	1	TUBE, S800X, FAST-VAC -(Outfront Models)
3	5406308A	1	WELD, FLANGE ASSY - BLK
4	5025179X6	3	SCREW, #10-24 X 3/4 ROUND PHILLIPS
5	5025271	3	NUT, #10-24 HEX NYLON LOCK
6	1910531SM	6	WASHER, Rivet, 3/16
7	5020841X4	2	PIN, CLEVIS
8	5020841X2	2	LATCH, RUBBER, KEEPER
9	5020841X5	2	PIN, COTTER
10	5020841X1	2	LATCH, RUBBER
11	1675044	4	RIVET-POP.188 .429L AL,AL STEM.37HD DIA
12	5109477	3	SPACER, STEP, HOPPER
13	5022875	2	CLAMP, HOSE, UPPER
14	5025391	6	NUT, 1/4-20 HEX NYLOCK FLANGE
15	5025299X4	3	SCREW, 1/4-20 X 1/2 ALLEN BH
16	720533CK	1	HANDLE CONNECT TUBE, BLACK TEXTURED
17	5102391	1	HOSE, FLEXIBLE, FAST-VAC
18	5407219A	1	WELD, HOSE ATTACHMENT - BLK
19	5406305A	1	WELD, THIMBLE, BAGGER - BLK
20	5412387A	1	WELD, ELBOW EXTENSION, HOPPERS - BLK
21	5025010X8	3	BOLT, 1/4-20 X 1" GD5 CZ
22	5025154	6	WASHER, 1/4 SAE
23	5025391	3	NUT, 1/4-20 HEX NYLOCK FLANGE
24	5025010X6	3	BOLT, 1/4"-20 X 3/4" GD5 YZ

Weight Mount Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5601240

5300189
1717627



Weight Mount Group

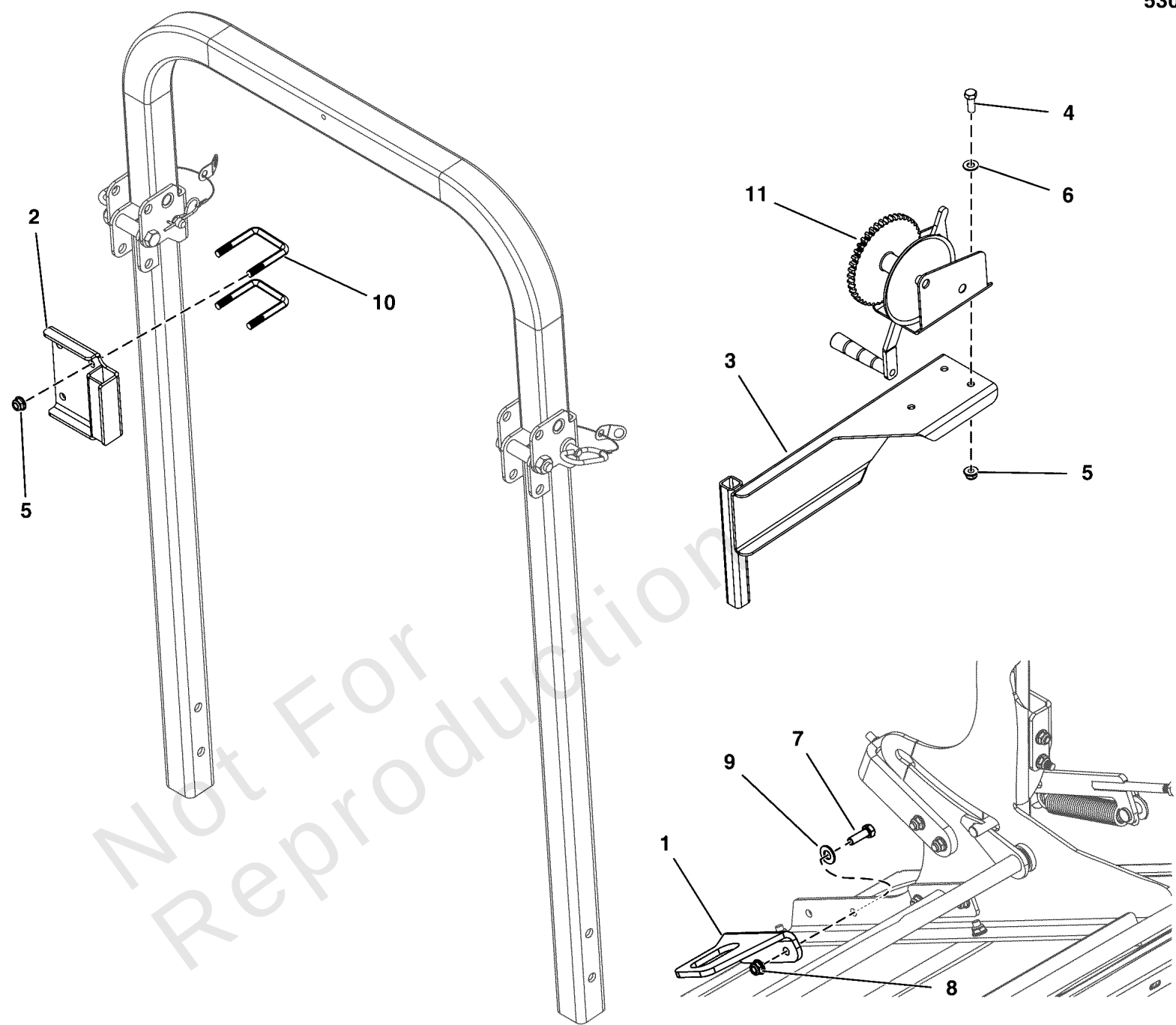
REF NO	PART NO	QTY	DESCRIPTION
1	5049082A	1	HOLDER ASMY-WEIGHT CONS Z CAT - BLACK
2	5025158	2	WASHER, 1/2 SAE
3	5025018X10	2	BOLT, 1/2-20 X 1-1/4" GD8 CZ
4	5025098	2	NUT, Hex, Nylon Lock, 1/2-20
5	5049143	1	ROD, .500DIA 13.75LG CZ
6	5025210	2	PIN, HAIR, .0915 X 1-7/8
7	5025013X10	2	BOLT, 3/8-16 X 1-1/4" GD5 CZ
8	5025156	2	WASHER, 3/8 SAE
9	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
10	1717627	2	WEIGHT-QUICK ATTACH 50LB SUITCASE PAINTED -(All Other Models)
11	1717627	3	WEIGHT-QUICK ATTACH 50LB SUITCASE PAINTED -(S200XT Models with 14 cu. ft. Hopper)

Winch and Mount Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5601240

5304535



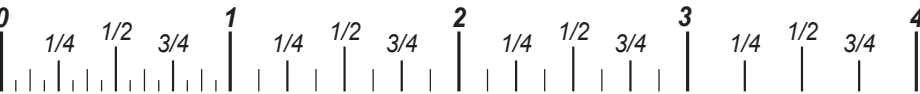
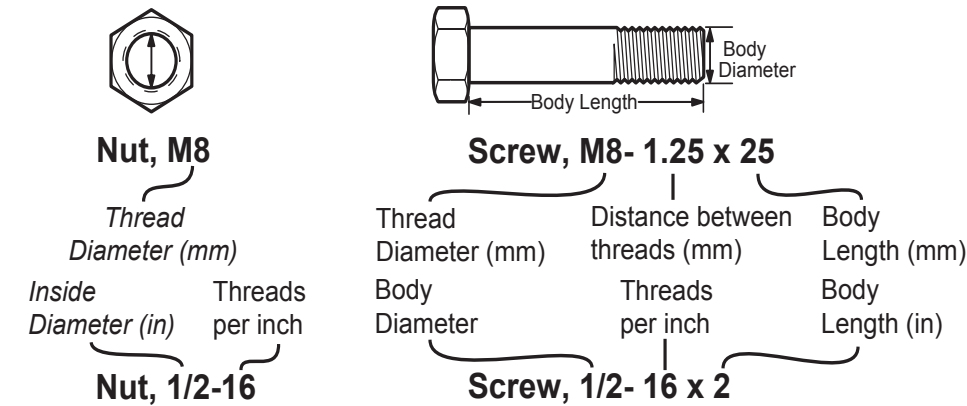
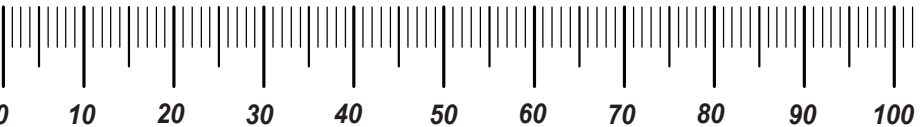
Winch and Mount Group

REF NO	PART NO	QTY	DESCRIPTION
1	5414664A	1	BRACKET, ANCHOR, WINCH - BLK
2	5414800A	1	WELD, QUICK MOUNT, WINCH - BLK
3	5414894A	1	WELD, ASSY, WINCH BASE - BLK
4	5025013X8	3	BOLT, 3/8-16 X 1" GD5 CZ
5	5025394	7	NUT, 3/8-16 HEX NYLOCK FLANGE
6	5025156	3	WASHER, 3/8 SAE
7	5025011X8	2	BOLT, 5/16-18 X 1 GD5 CZ
8	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE
9	5025155	2	WASHER, 5/16" SAE
10	5025630	2	U-BOLT, SQR, 3/8 X 2 X 2-5/8, CZ
11	5600908	1	KIT, HOPPER WINCH, ZTR

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).

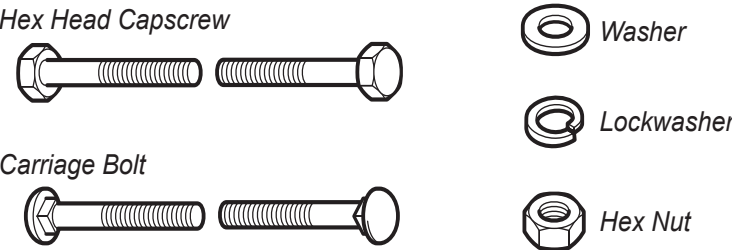
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

