

# Parts Manual

Mfg. No: 5600776

61" iCD TURBO-Pro Max; 3-Bag Grass  
Collection System ANSI-EXP (200XT,  
IS2100Z)



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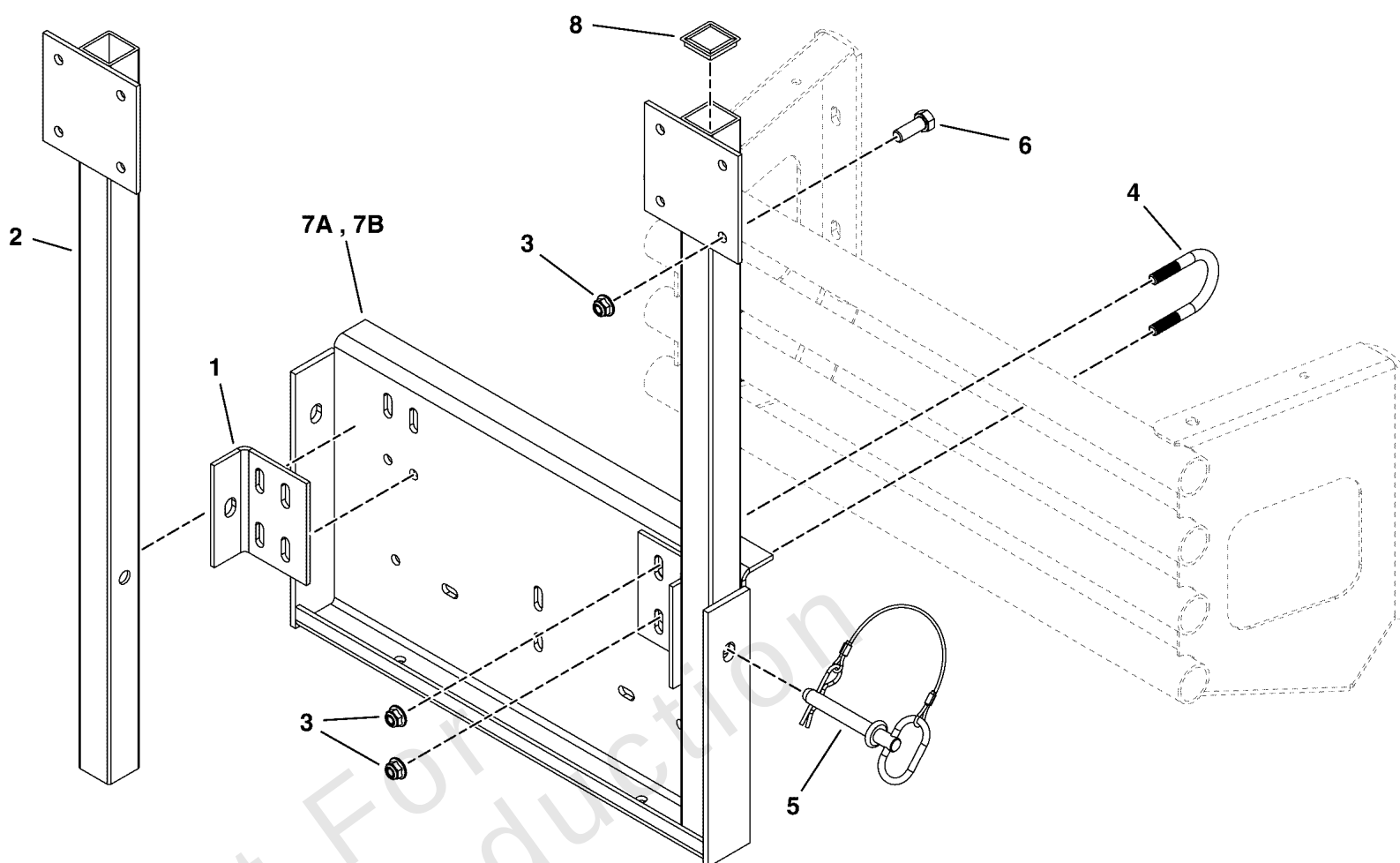
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### 2-Bag & 3-Bag Mount Group

Note: Unless noted otherwise, use the standard torque specifications

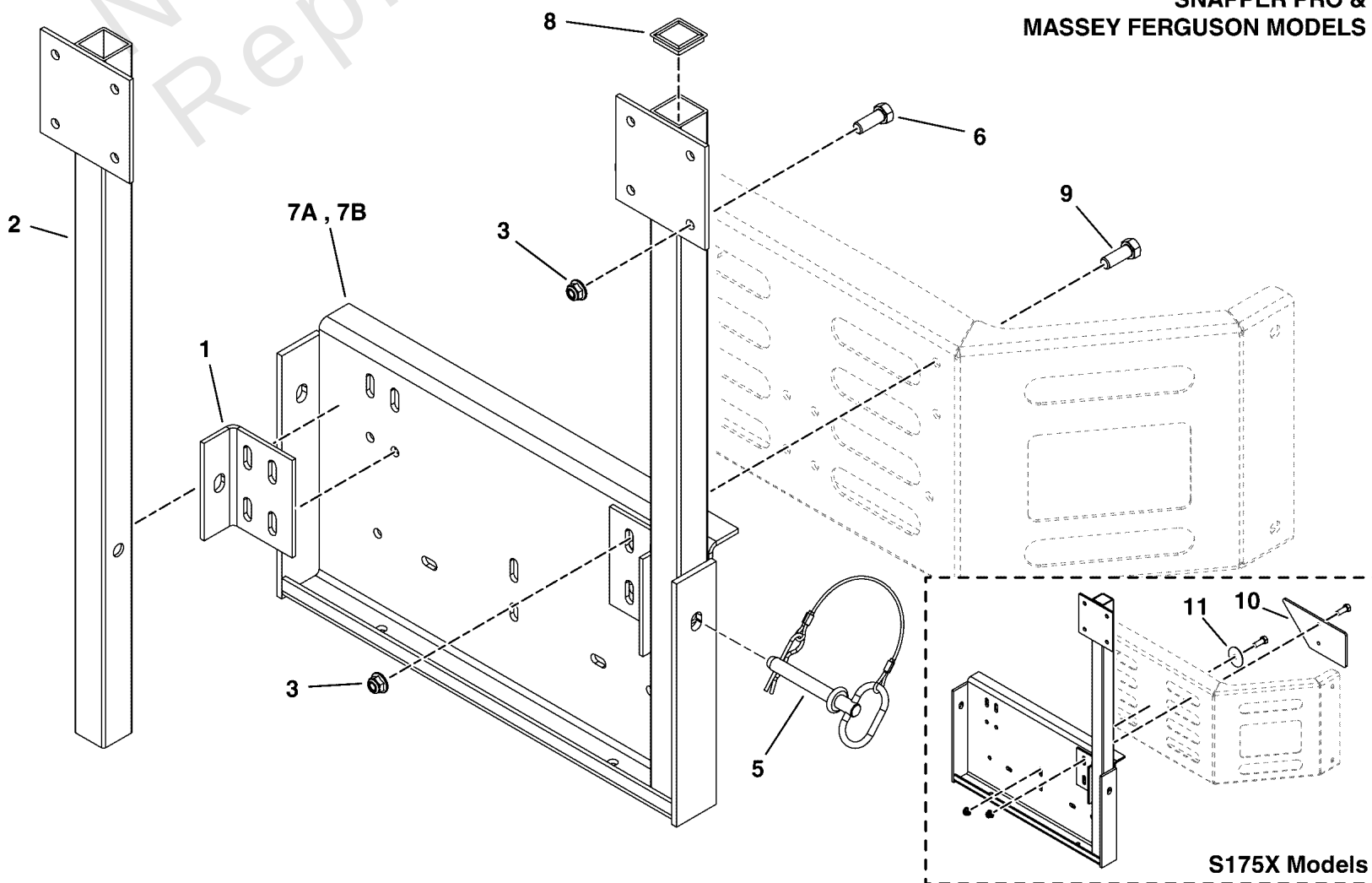
Mfg. No: 5600776

**5300019**



## FERRIS MODELS

## SNAPPER PRO & MASSEY FERGUSON MODELS



## 2-Bag & 3-Bag Mount Group

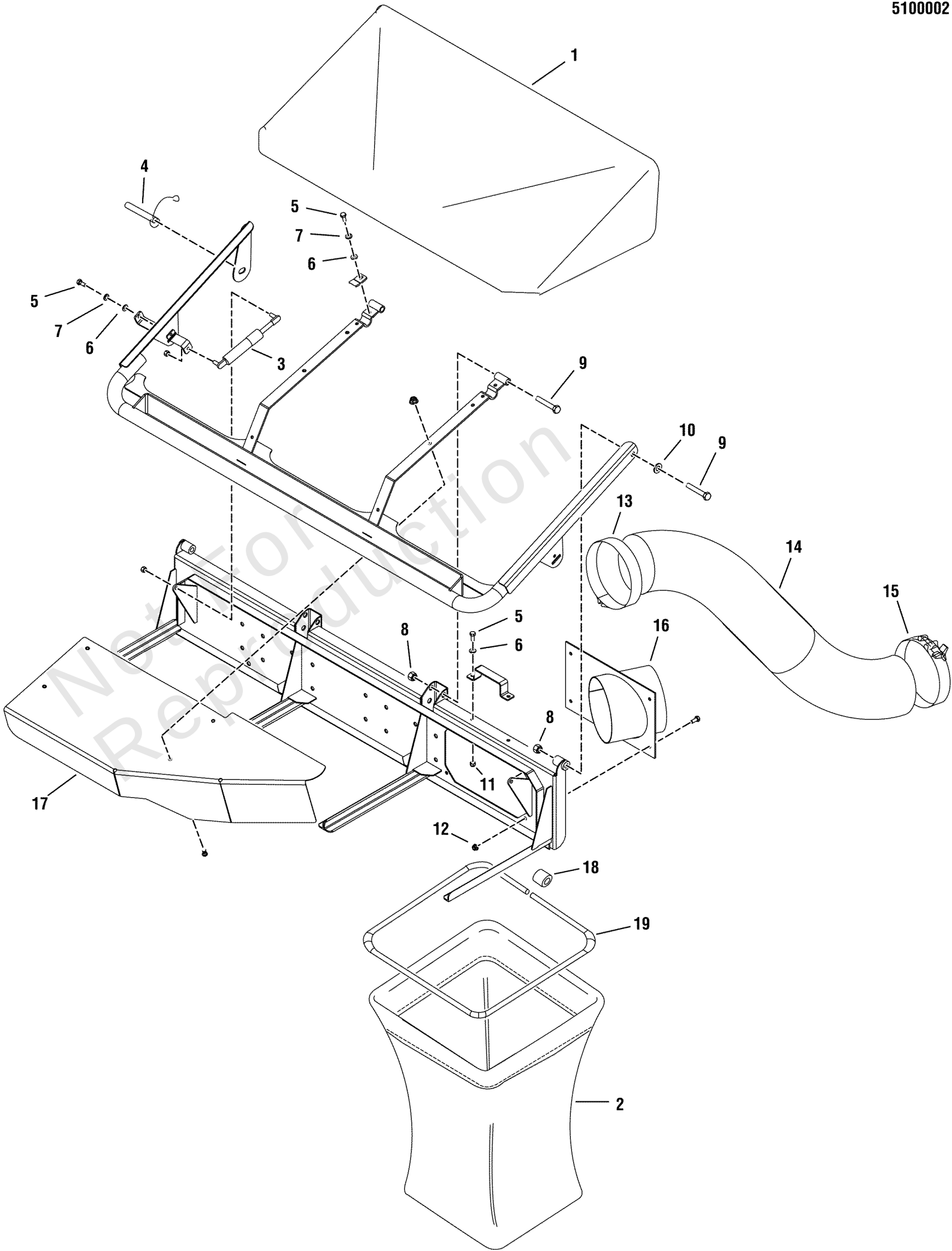
| REF NO | PART NO    | QTY | DESCRIPTION                                         |
|--------|------------|-----|-----------------------------------------------------|
| 1      | 5402665A   | 2   | BRACKET, BAGGER MOUNT - BLK                         |
| 2      | 5400043A   | 2   | WELD, MOUNT, POST - BLK                             |
| 3      | 5025394    | 14  | NUT, 3/8 - 16 HEX NYLOCK FLANGE                     |
| 4      | 5100009    | 3   | U-BOLT, 3/8" X 1-1/4"                               |
| 5      | 5100013    | 2   | PIN, HITCH, .50 X 3.25 W/ LAY (SV)                  |
| 6      | 5025013X8  | 8   | BOLT, 3/8-16 X 1" GD5 CZ                            |
| 7A     | 5408631A   | 1   | WELD, BAGGER MOUNT, 2 BAG - BLK<br>-(2-Bag Systems) |
| 7B     | 5400149AYP | 1   | WELD, BAGGER MNT,1500<br>-(3-Bag Systems)           |
| 8      | 5022848    | 2   | CAP, PLASTIC, 1-1/2" X 1-1/2"                       |
| 9      | 5025013X10 | 6   | BOLT, 3/8-16 X 1-1/4" GD5 CZ                        |
| 10     | 5407783A   | 2   | PLATE, SUPPORT, BAGGER MOUNT - BLK                  |
| 11     | 5025326    | 1   | WASHER, .39 X 2.00 X X .14                          |

3-Bag Catcher & Cover Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5600776

5100002



### 3-Bag Catcher & Cover Group

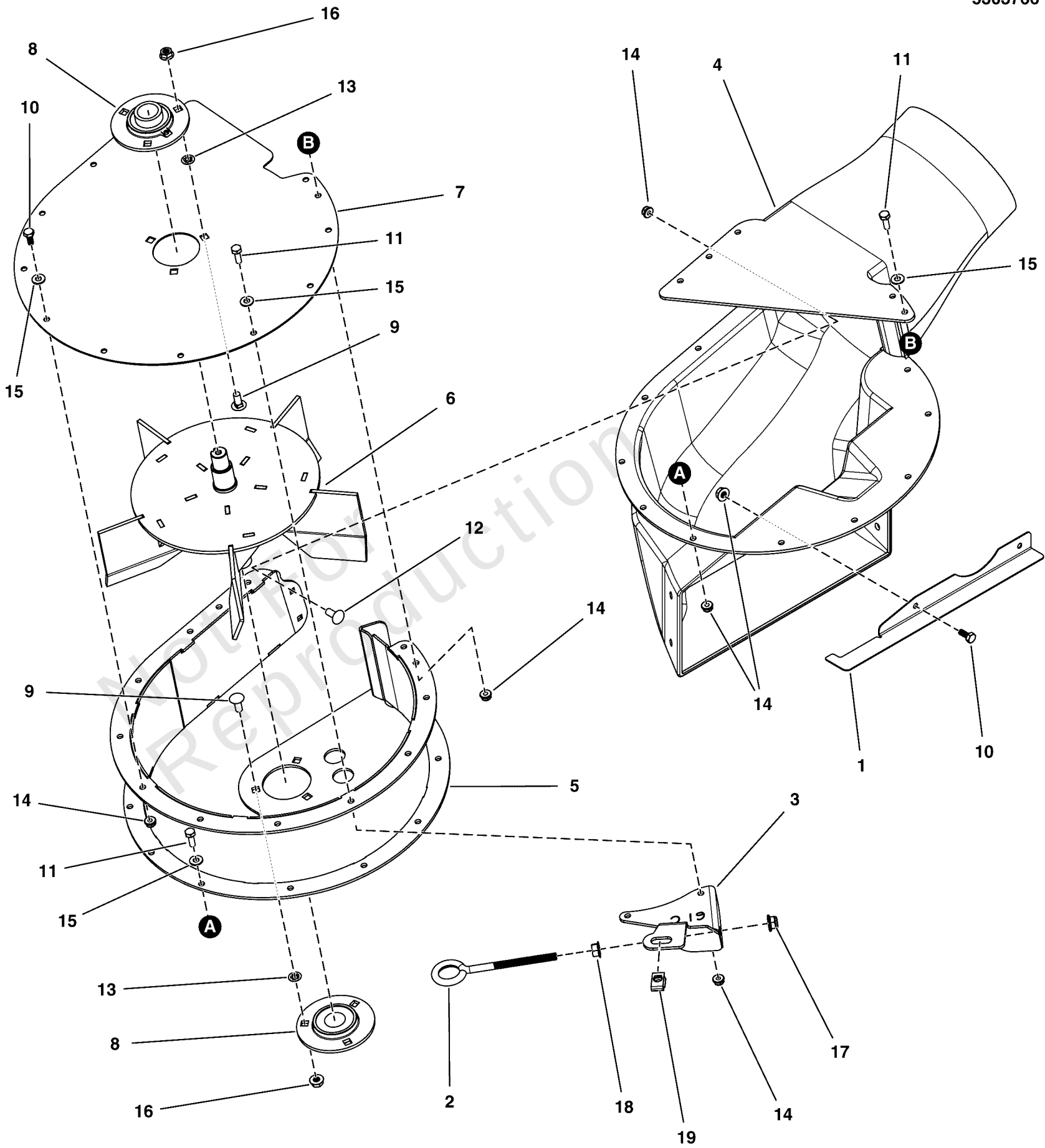
| REF NO | PART NO    | QTY | DESCRIPTION                    |
|--------|------------|-----|--------------------------------|
| 1      | 5100154    | 1   | 3 BAG AIR DOME                 |
| 2      | 5100150    | 3   | CATCHER BAG W/ HANDLE          |
| 3      | 5100152    | 2   | GAS CYLINDER                   |
| 4      | 5100151    | 1   | DETENT PIN W/ LANYARD          |
| 5      | 5025011X6  | 14  | BOLT, 5/16-18 X 3/4 GD5        |
| 6      | 5025155    | 10  | WASHER, 5/16" SAE              |
| 7      | 5025170    | 6   | WASHER, 5/16 LOCK CZ           |
| 8      | 5025056    | 4   | NUT, 1/2-13 HEX NYLON LOCK     |
| 9      | 5025018X24 | 4   | BOLT, 1/2-20 X 3" GD5          |
| 10     | 5025158    | 2   | WASHER, 1/2 SAE                |
| 11     | 5025057    | 4   | NUT, 5/16-18 HEX NYLON LOCK    |
| 12     | 5025392    | 4   | NUT, 5/16-18 HEX NYLOCK FLANGE |
| 13     | 5022875    | 1   | CLAMP, HOSE, UPPER             |
| 14     | 5103646    | 1   | HOSE, FLEXIBLE, 7" DIA. X 58"  |
| 15     | 5022876    | 1   | CLAMP, HOSE, LOWER             |
| 16     | 5400145A   | 1   | WELD, INLET BLOWER 3-BAG BLACK |
| 17     | 5400197A   | 1   | BAFFLE                         |
| 18     | 5100730    | 1   | BAG FRAME CONNECTOR, PLASTIC   |
| 19     | 5100729    | 1   | BAG FRAME                      |

**Blower Group, TURBO-Pro MAX S/N: 11/03/2021 and Earlier**

Note: Unless noted otherwise, use the standard torque specifications

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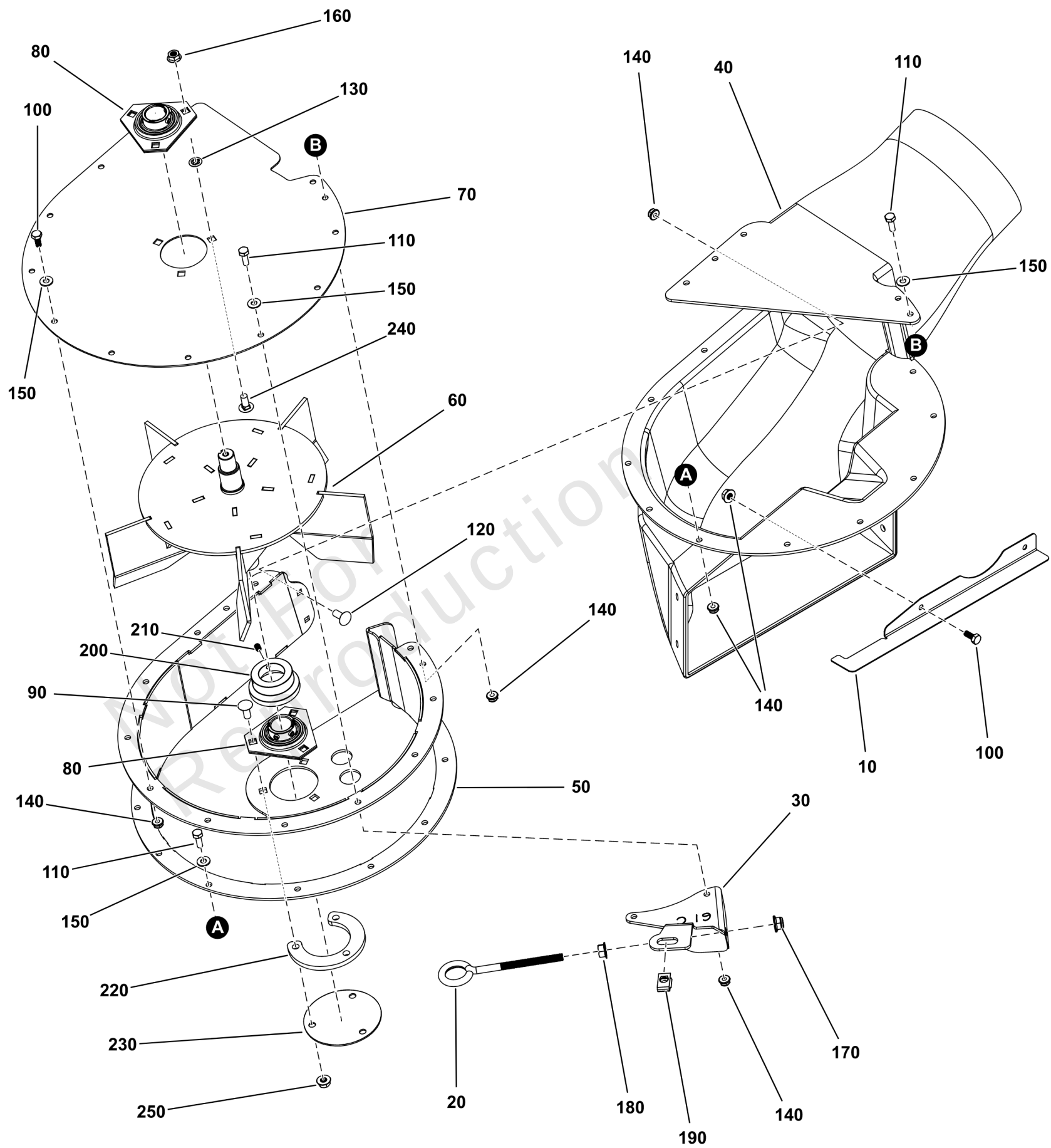
**Blower Group, TURBO-Pro MAX S/N: 11/03/2021 and Earlier**

| REF NO | PART NO   | QTY | DESCRIPTION                                  |
|--------|-----------|-----|----------------------------------------------|
| 1      | 5412471AA | 1   | BRACKET, ADAPTER SEAL, COM BLOWER - BLK      |
| 2      | 5021812   | 1   | EYE BOLT, 3/8-16 X 6, 3THRD, 1EYE, CZ        |
| 3      | 5411115AA | 1   | WELD, SPRING ANCHOR, COM - BLK               |
| 4      | 5103816   | 1   | MOLDED HOUSING, COMMERCIAL TURBO VAC         |
| 5      | 5411079AA | 1   | WELD, FAN CAGE, BLOWER - BLK                 |
| 6      | 5601360   | 1   | KIT, T-MAX FAN UPDATE                        |
| 7      | 5411077AA | 1   | PLATE, FAN, TOP - BLK                        |
| 8      | 7100021SM | 2   | BEARING, FLANGE, 1" Bore                     |
| 9      | 5025145X6 | 6   | BOLT, 5/16-18 X 3/4, CARRIAGE                |
| 10     | -----     | 8   | HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR        |
| 11     | 5025010X6 | 18  | BOLT, 1/4-20 X 3/4 GD5 CZ                    |
| 12     | 80003518  | 2   | BOLT, 1/4-20X0.750, GR5, STD NECK, SQ, ZC/CL |
| 13     | 5025498   | 6   | 5/16 PUSH-ON NUT RETAINER, STL, CZ           |
| 14     | 5025391   | 28  | NUT, 1/4-20 HEX NYLOCK FLANGE                |
| 15     | 5025154   | 26  | WASHER, 1/4 SAE                              |
| 16     | 5025127   | 6   | NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)     |
| 17     | 5025394   | 1   | NUT, 3/8-16 HEX NYLOCK FLANGE                |
| 18     | 5025128   | 1   | NUT, 3/8-16 HEX SERRATED FLANGE              |
| 19     | 5022308   | 1   | BODY CLIP, 5/16-18-7GA MATERIAL              |

**Blower Group, TURBO-Pro MAX S/N: 11/04/2021 and Later**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5600776



**Blower Group, TURBO-Pro MAX S/N: 11/04/2021 and Later**

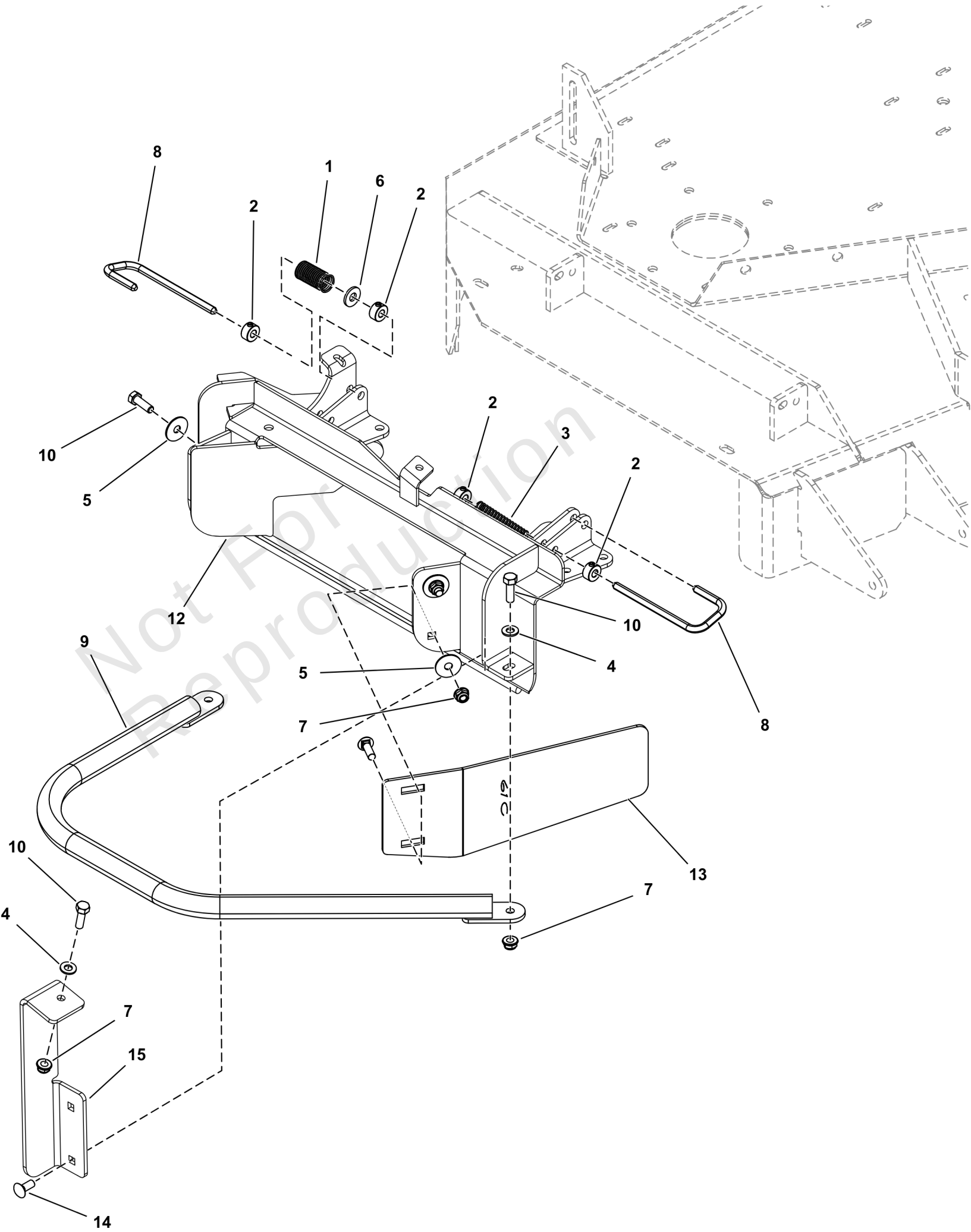
| REF NO | PART NO     | QTY | DESCRIPTION                                                                                                       |
|--------|-------------|-----|-------------------------------------------------------------------------------------------------------------------|
| 10     | 5412471AA   | 1   | BRACKET, ADAPTER SEAL, COM BLOWER - BLK                                                                           |
| 20     | 5021812SM   | 1   | EYE BOLT, 3/8-16 X 4-                                                                                             |
| 30     | 5411115AA   | 1   | WELD, SPRING ANCHOR, COM - BLK                                                                                    |
| 40     | 5103816FS   | 1   | HOUSING, BLOWER                                                                                                   |
| 50     | 5411079AA   | 1   | WELD, FAN CAGE, BLOWER - BLK                                                                                      |
| 60     | 84007864    | 1   | IMPELLER                                                                                                          |
| 70     | 5411077AA   | 1   | PLATE, FAN, TOP - BLK                                                                                             |
| 80     | 5110099FS   | 2   | BEARING, FLANGE<br>-(Torque set screws to 87 in-lbs (9.8 Nm). Use Loctite 271 Threadlocker on threads).           |
| 90     | 5025145X8SM | 3   | BOLT, 5/16-18 X 1", C                                                                                             |
| 100    | 5025010X8SM | 7   | BOLT, 1/4-20 X 1", GD                                                                                             |
| 110    | 5025010X6SM | 17  | BOLT, 1/4-20 X 3/4" G                                                                                             |
| 120    | 703575      | 2   | BOLT, 1/4-20X.750, SQ                                                                                             |
| 130    | 5025498YP   | 3   | NUT, PUSH ON, 5/16                                                                                                |
| 140    | 5025391FS   | 26  | NUT                                                                                                               |
| 150    | 703332      | 24  | WASHER                                                                                                            |
| 160    | 5025127SM   | 3   | NUT, 5/16-18 HEX SERR                                                                                             |
| 170    | 5025394SM   | 1   | NUT, 3/8-16 HEX NYLOCK                                                                                            |
| 180    | 5025128SM   | 1   | NUT, 3/8-16 HEX SERRA                                                                                             |
| 190    | 5022308SM   | 1   | BODY CLIP, 5/16-18 X                                                                                              |
| 200    | 84008050    | 1   | GUARD                                                                                                             |
| 210    | 5110109     | 2   | SET SCREW, 1/4-20 X 3/8, KNURLED CUP<br>-(Torque to 87 in-lbs (9.8 Nm). Use Loctite 271 Threadlocker on threads). |
| 220    | 5422390AA   | 1   | PLATE, C-SHAPED SPACER, TMAX - BLK                                                                                |
| 230    | 5422388AA   | 1   | PLATE, INNER COVER, TMAX - BLK                                                                                    |
| 240    | 703185      | 3   | BOLT, Round Head, Short Square Neck                                                                               |
| 250    | 5025392FS   | 3   | NUT                                                                                                               |

**Blower Mount Group - 61" Mower Decks, TURBO-Pro MAX**

Note: Unless noted otherwise, use the standard torque specifications

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**Blower Mount Group - 61" Mower Decks, TURBO-Pro MAX**

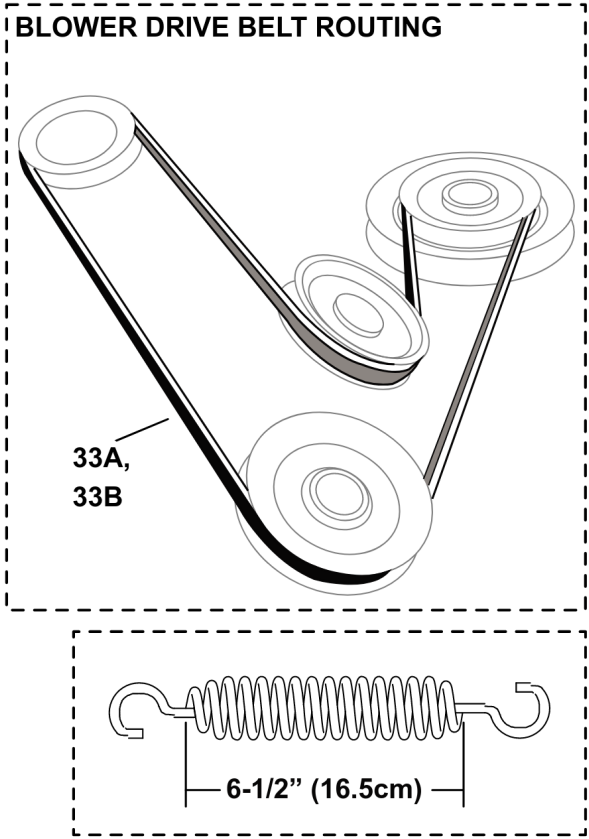
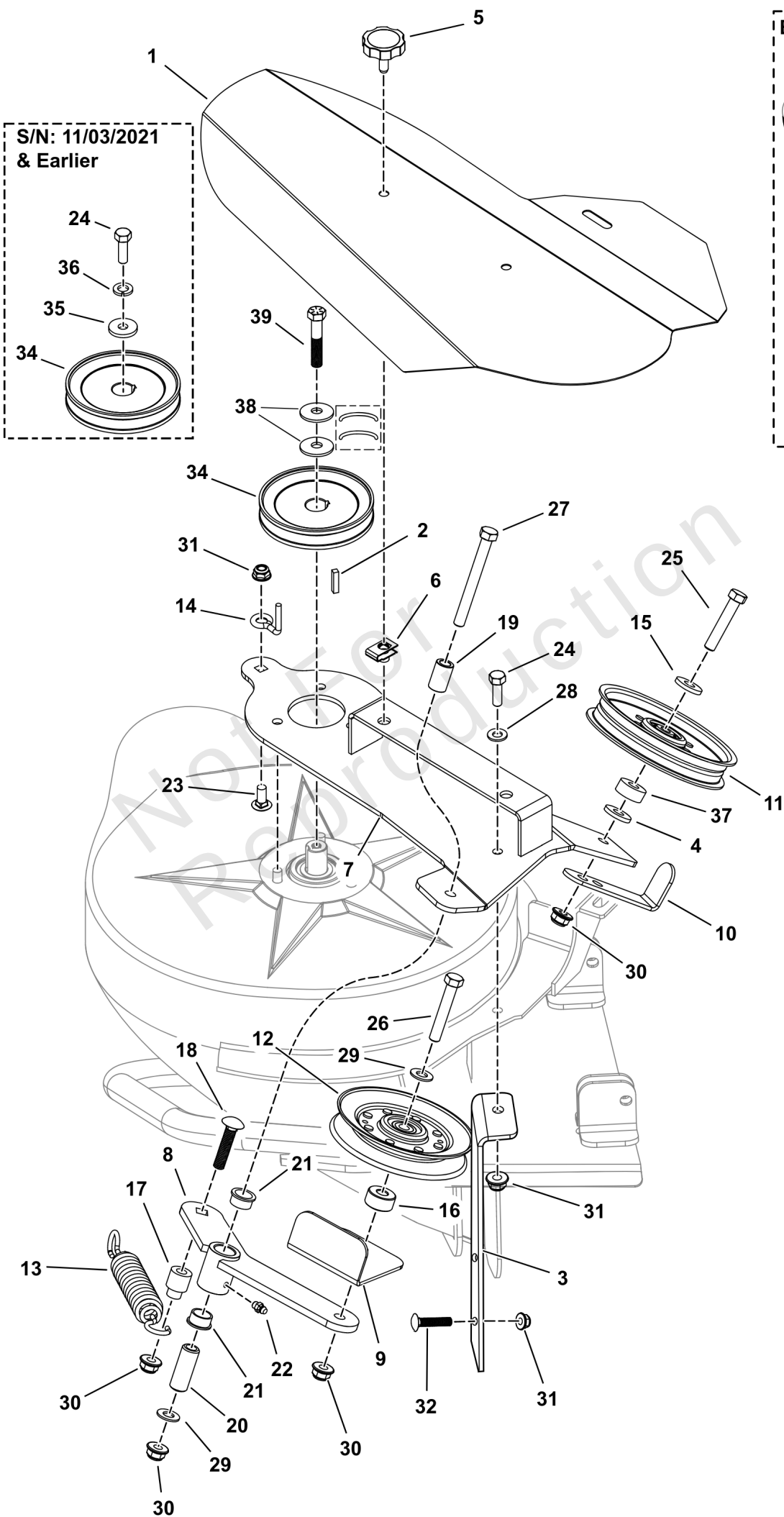
| REF NO | PART NO   | QTY | DESCRIPTION                                                                          |
|--------|-----------|-----|--------------------------------------------------------------------------------------|
| 1      | 1709660   | 1   | SPRING-COMP 0.880ODX 02.187LG .062WIRE<br>-(Date of Manufacture: Before 11/02/2021)  |
| 1      | 5020637   | 1   | SPRING-COMP, .375IDX2.75LGX.054WR, SS<br>-(Date of Manufacture: After 11/03/2021)    |
| 2      | 5020047   | 4   | COLLAR, 5/16 SET                                                                     |
| 3      | 5020637   | 1   | SPRING-COMP, .375IDX2.75LGX.054WR, SS                                                |
| 4      | 5025155   | 5   | WASHER, 5/16" SAE<br>-(Qty: 4 - Date of Manufacture: Before 11/02/2021)              |
| 5      | 5025164   | 4   | WASHER, 5/16 FENDER                                                                  |
| 6      | 5025337   | 1   | WASHER, 5/16 USS                                                                     |
| 7      | 5025392   | 6   | NUT, 5/16-18 HEX NYLOCK FLANGE<br>-(Qty: 5 - Date of Manufacture: Before 11/02/2021) |
| 8      | 5104203   | 2   | ROD, LOCKING PIN, BLOWER                                                             |
| 9      | 5412625AA | 1   | WELD, NERF BAR, 61" T-MAX - BLK                                                      |
| 10     | 5025011X8 | 6   | BOLT, 5/16-18 X 1 GD5 CZ<br>-(Qty: 5 - Date of Manufacture: Before 11/02/2021)       |
| 11     | 5025145X8 | 2   | BOLT, 5/16-18 X 1, CARRIAGE                                                          |
| 12     | 5411112AA | 1   | WELD, ADAPTER, 61" COM - BLK<br>-(Date of Manufacture: Before 11/02/2021)            |
| 12     | 5422377AA | 1   | WELD, ADAPTER, 61" TMAX-BLK<br>-(Date of Manufacture: After 11/03/2021)              |
| 13     | 84008397  | 1   | BAFFLE, Front<br>-(Date of Manufacture: Before 11/02/2021)                           |
| 13     | 84008397  | 1   | BAFFLE, Front<br>-(Date of Manufacture: After 11/03/2021)                            |
| 14     | 5025145X6 | 2   | BOLT, 5/16-18 X 3/4, CARRIAGE, GD5, CZ<br>-(Date of Manufacture: After 11/03/2021)   |
| 15     | 5422421AA | 1   | BRACKET, PLATE SUPPORT, TMAX-BLK<br>-(Date of Manufacture: After 11/03/2021)         |

Blower Pulley Group, TURBO-Pro MAX

Note: Unless noted otherwise, use the standard torque specifications

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## Blower Pulley Group, TURBO-Pro MAX

| REF NO | PART NO    | QTY | DESCRIPTION                                                                  |
|--------|------------|-----|------------------------------------------------------------------------------|
| 1      | 5600740    | 1   | HOOD W/ DECALS - TURBO PRO-MAX                                               |
| 2      | 5050403X4  | 1   | KEY, 3/16" SQ. X 3/4                                                         |
| 3      | 5411116AFS | 1   | SUPPORT<br>-(Date of Manufacture: Before 11/02/2021)                         |
| 3      | 5422421AA  | 1   | BRACKET, PLATE SUPPORT, TMAX-BLK<br>-(Date of Manufacture: After 11/03/2021) |
| 4      | 5025165    | 1   | WASHER, 3/8" Fender                                                          |
| 5      | 5101731    | 3   | KNOB, 5/16-18 X 1.00, ROSETTE BLACK                                          |
| 6      | 5022308    | 2   | BODY CLIP, 5/16-18-7GA MATERIAL                                              |
| 7      | 5412606    | 1   | ASSEMBLY, PULLEY PLATE, T-MAX (52,60,61)                                     |
| 8      | 5409892    | 1   | ASSEMBLY, IDLER ARM - TURBO-VAC<br>-(Includes Bushings and Fitting)          |
| 9      | 5409609AA  | 1   | RETAINER, BELT, WIDE - BLK                                                   |
| 10     | 5409610AA  | 1   | RETAINER, BELT<br>-(Refer to Note: *)                                        |
| 11     | 1725408    | 1   | PULLEY-IDLER 04.00 OD 0.378ID 1.06 W BRG                                     |
| 12     | 5103456    | 1   | PULLEY-IDLER-V, 4.85OB, .38ID                                                |
| 13     | 5022847    | 1   | SPRING-EXT, 1.04 ODX6.935LGX.148WR, BLK                                      |
| 14     | 5103488    | 1   | BELT KEEP, .19 X 1.25 - BK                                                   |
| 15     | 80003616   | 1   | WSHR,.406X1.0X.134,FLT,TYPE A,ZINC/CLEAR                                     |
| 16     | 5046860    | 1   | SPACER, .39 X 1.00 X .50, PM, CZ                                             |
| 17     | 1706644    | 1   | SPACER,3/8X3/4X15/16                                                         |
| 18     | 80004559   | 1   | BOLT,3/8-16X1.750,SHORT NECK CRRG,ZC/CL                                      |
| 19     | 5101933    | 1   | SPACER, .39 X .63 X 1.00, YZ                                                 |
| 20     | 5102322    | 1   | SPACER, .38 X .625 X 1.62, YZ                                                |
| 21     | 1676148    | 2   | BUSHING-0.628IDX0.751ODX0.400LG PWDR MTL                                     |
| 22     | 5020095    | 1   | GREASE FITTING, 1/4-28 Straight                                              |
| 23     | 5025145X6  | 1   | BOLT, 5/16-18 X 3/4, CARRIAGE, GD5, CZ                                       |
| 24     | 5025011X8  | 1   | BOLT, 5/16-18 X 1" GRD5 YZ<br>-(Qty: 2 - S/N: 11/03/2021 and Earlier)        |
| 25     | 5025013X14 | 1   | BOLT, 3/8-16 X 1-3/4" GD5 CZ                                                 |
| 26     | 5025013X18 | 1   | BOLT, 3/8-16 X 2-1/4" GD5 CZ                                                 |
| 27     | 5025013X28 | 1   | BOLT, 3/8-16 X 3-1/2" GD5 CZ                                                 |
| 28     | 5025155    | 1   | WASHER, 5/16" SAE                                                            |
| 29     | 5025156    | 2   | WASHER, 3/8 SAE                                                              |
| 30     | 5025394    | 4   | NUT, 3/8 - 16 HEX NYLOCK FLANGE                                              |
| 31     | 5025392    | 4   | NUT, 5/16-18 HEX NYLOCK FLANGE NUT                                           |
| 32     | 5025145X8  | 2   | BOLT, 5/16-18 X 1, CARRIAGE, GD5, CZ                                         |
| 33A    | 5104289    | 1   | BELT, A SEC, 81.1"EL, ARAMID, WRPD<br>-(52" Mower Decks)                     |
| 33B    | 84008031   | 1   | BELT<br>-(61" Mower Decks)                                                   |
| 34     | 5103836    | 1   | PULLEY, COMMERCIAL PRO                                                       |
| 35     | 1919381    | 1   | WASHER-0.312(0.34IDX1.00ODX.13THK)BLK<br>-(S/N: 11/03/2021 and Earlier)      |
| 36     | 5025170    | 1   | WASHER, 5/16 LOCK CZ<br>-(S/N: 11/03/2021 and Earlier)                       |
| 37     | 1667811    | 1   | SPACER-0.390ID 0.90 OD 0.34 LG P'MTL YEL                                     |
| 38     | 5106588    | 2   | BELLEVILLE WASHER, 1.187X.39X.089, SS<br>-(S/N: 11/04/2021 and Later)        |

### Footnotes:

Note: \*\*Torque to 50 ft-lbs (68 Nm)).

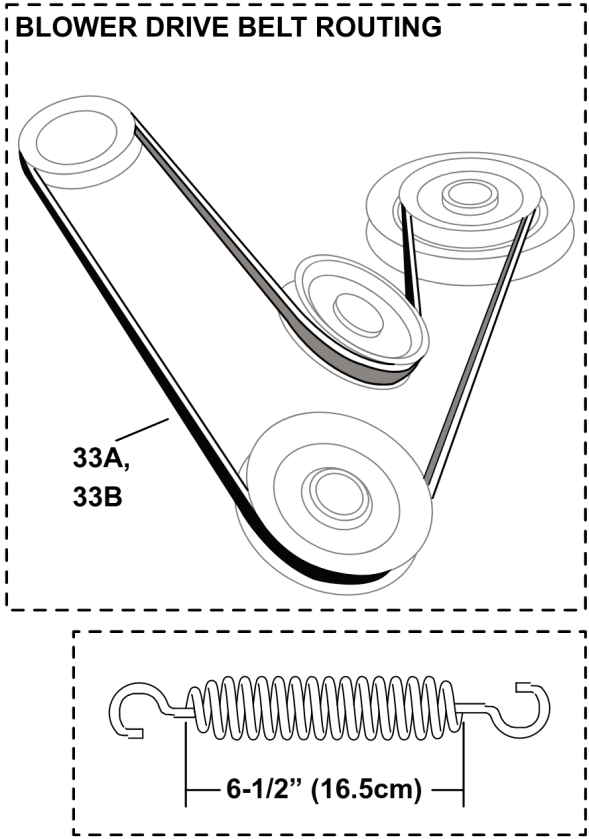
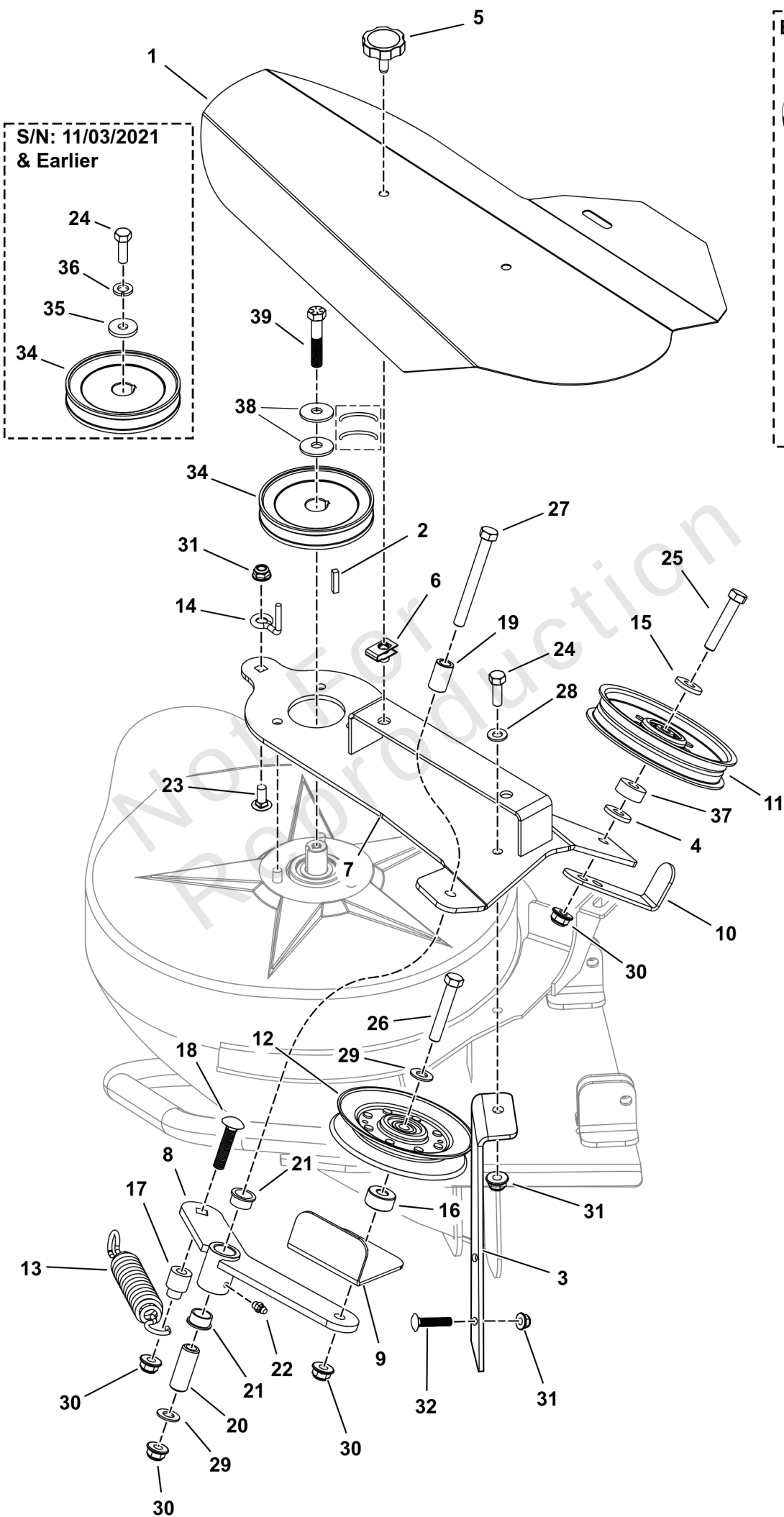
Note: \*The hole closest to the bend is for models with 44", 48" or 61" decks. The hole furthest from the bend is for models with 52" decks.

Blower Pulley Group, TURBO-Pro MAX

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5600776

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## ***Blower Pulley Group, TURBO-Pro MAX***

| REF NO | PART NO    | QTY | DESCRIPTION                                                                      |
|--------|------------|-----|----------------------------------------------------------------------------------|
| 39     | 5025676X16 | 1   | BOLT, 3/8-16 X 2.0, GD8, PHOS<br>-(S/N: 11/04/2021 and Later)(Refer to Note: **) |

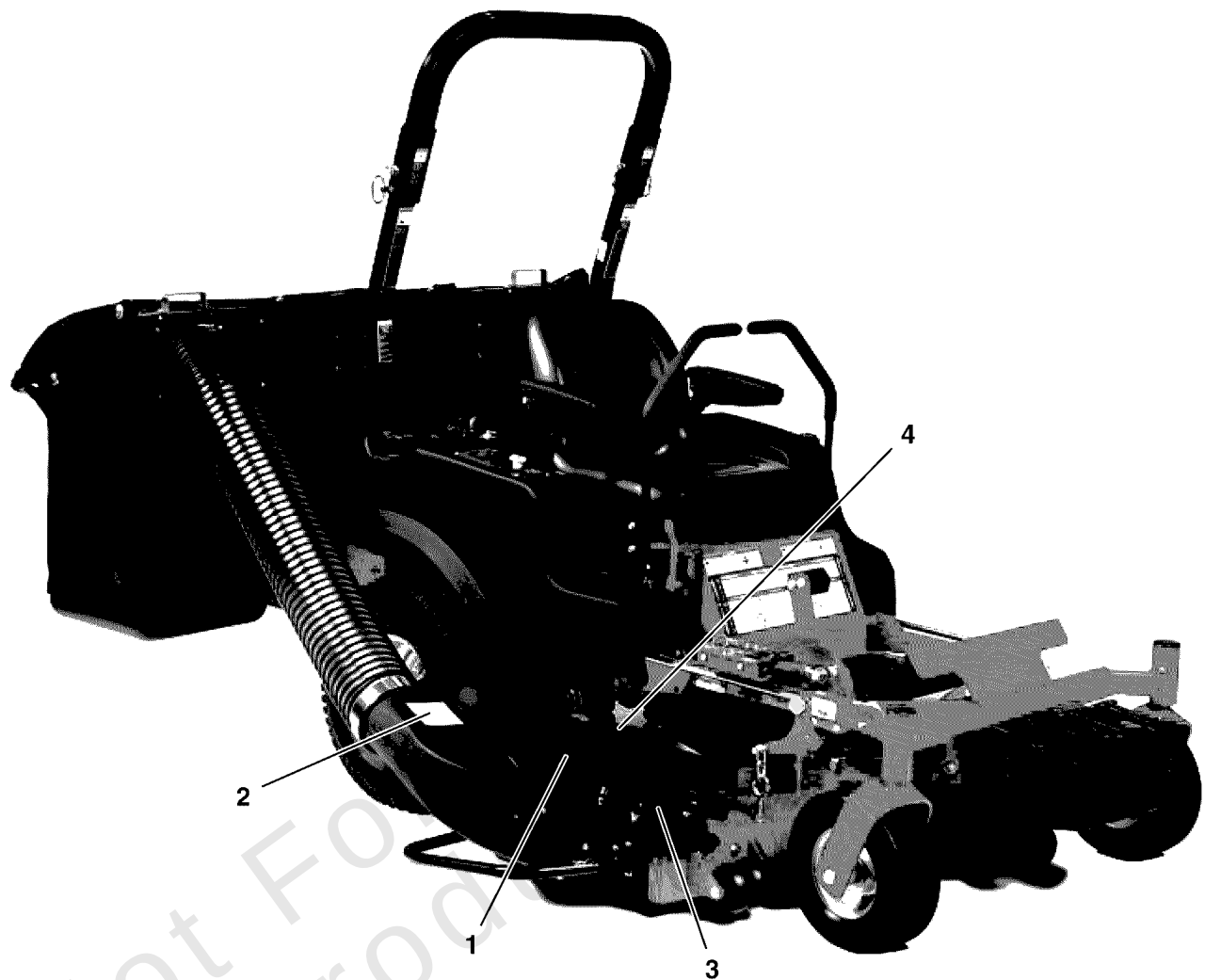
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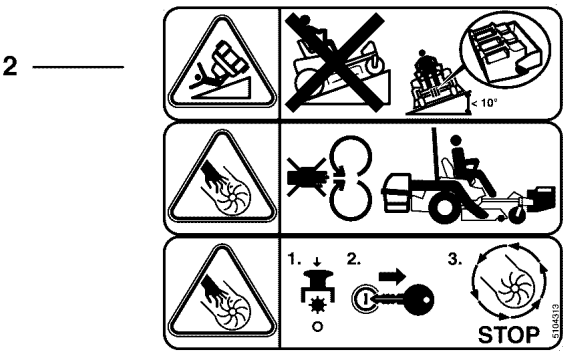
**Footnotes:**

Note: \*\*Torque to 50 ft-lbs (68 Nm)).

Note: \*The hole closest to the bend is for models with 44", 48" or 61" decks. The hole furthest from the bend is for models with 52" decks.



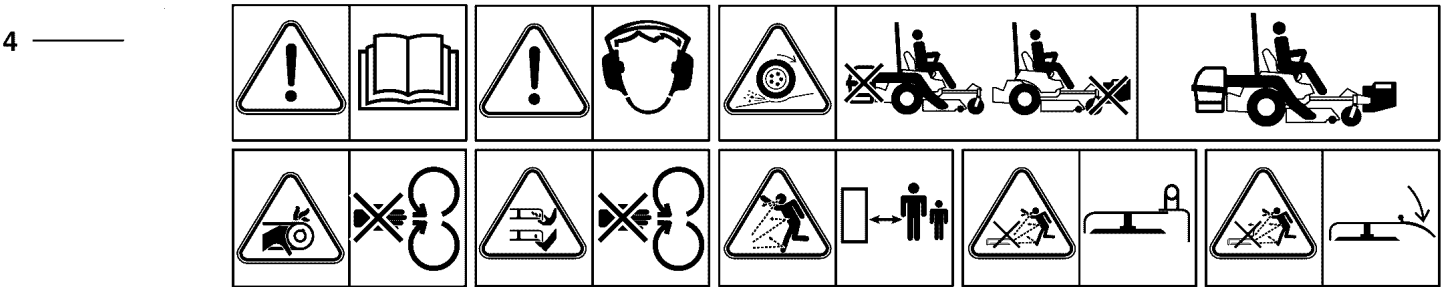
# 1 — **TURBO-Pro<sup>TM</sup> Max**



3 —

|                       |             |
|-----------------------|-------------|
| Model Number: 5901335 |             |
| Blower Drive Belt     |             |
| Deck Size             | Part Number |
| 52"                   | 5104289     |
| 61"                   | 1721532     |

5104318



### ***Decal Group - TURBO Pro MAX Blowers***

| REF NO | PART NO | QTY | DESCRIPTION                       |
|--------|---------|-----|-----------------------------------|
| 1      | 5104285 | 1   | DECAL, TURBO PRO MAX              |
| 2      | 5104313 | 1   | DECAL, BLOWER, SMALL, ICONS       |
| 3      | 5104318 | 1   | DECAL, BELT, TURBO-PRO MAX        |
| 4      | 5104314 | 1   | DECAL, BLOWER, MAIN, LARGE, ICONS |

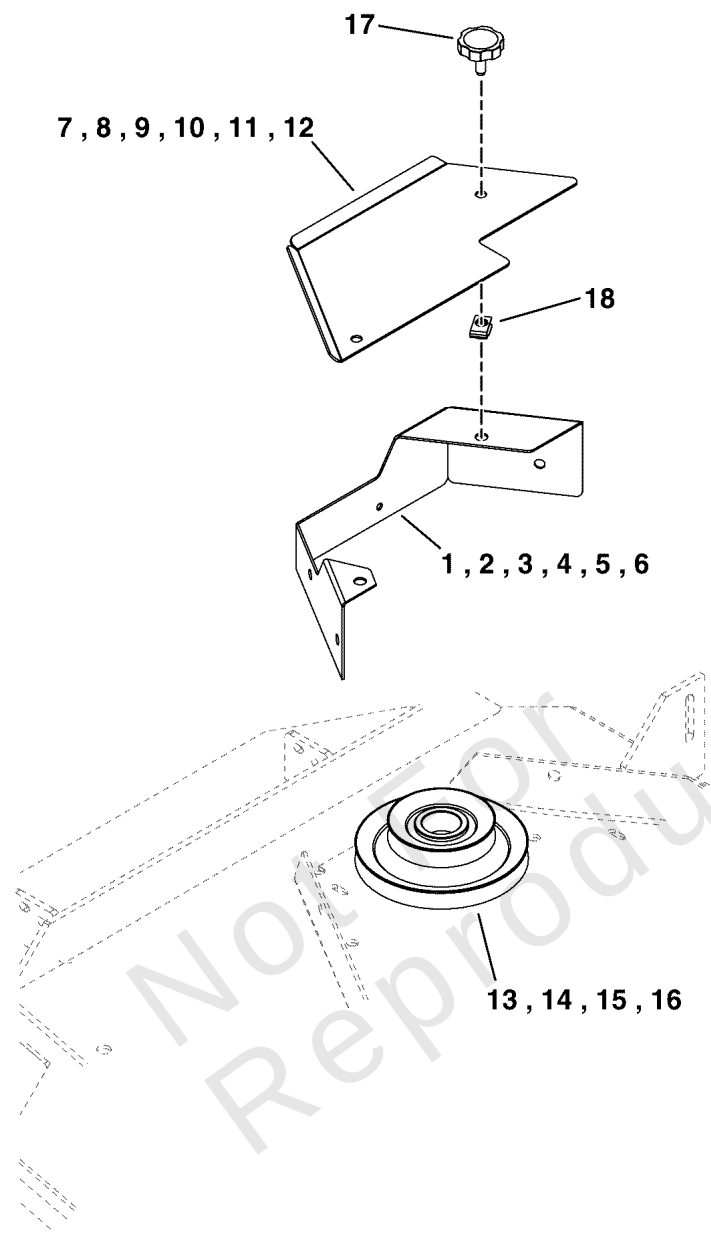
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Mower Deck Guards & Spindle Pulley

Note: Unless noted otherwise, use the standard torque specifications

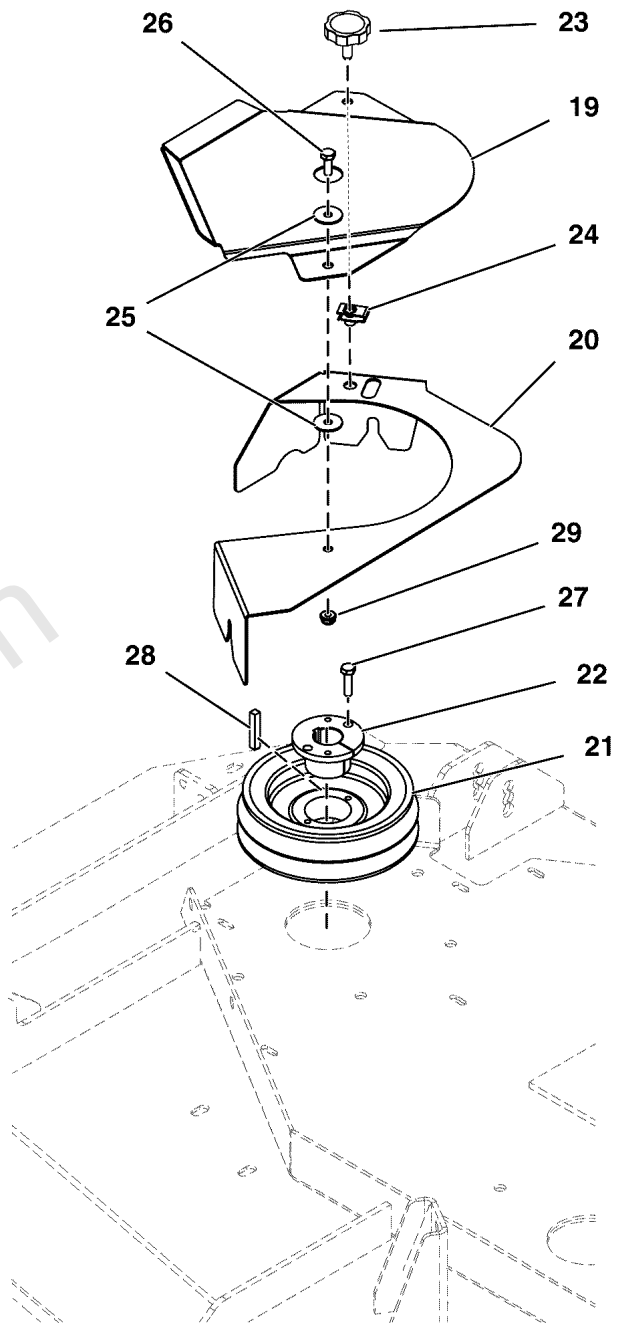
Mfg. No: 5600776

All Other Models



IS3200Z Models

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5304154



## Mower Deck Guards & Spindle Pulley

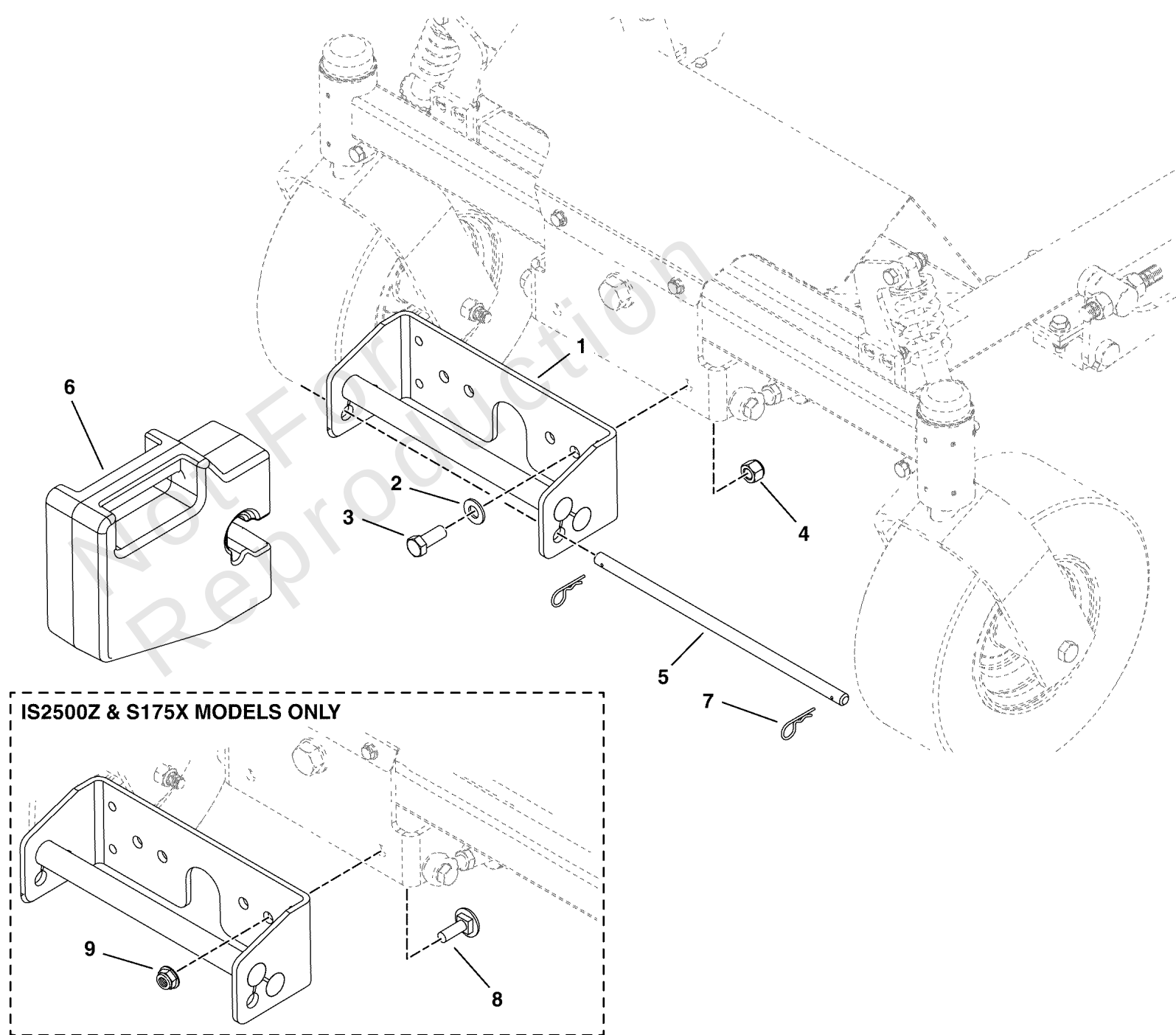
| REF NO | PART NO   | QTY | DESCRIPTION                                                            |
|--------|-----------|-----|------------------------------------------------------------------------|
| 1      | 84012937  | 1   | GUARD, PULLEY<br>-(IS2100Z-61")                                        |
| 2      | 5407843AA | 1   | GUARD, DECK, 61/200XT, FASTVAC - BLK<br>-(S200XT-61" / F210Z-61")      |
| 3      | 5411995AA | 1   | WELD, DECK GUARD, COMM BLWR - BLK<br>-(IS3100Z-61")                    |
| 4      | 5412517AA | 1   | GUARD, DECK, 2100-52" - BLK<br>-(IS2100Z-52")                          |
| 5      | 5409534A  | 1   | GUARD, DECK 48/52 - BLK<br>-(S150XT-52" / F160Z-52")                   |
| 6      | 5412577AA | 1   | WELD, PULLEY GUARD, 800-61, BLOWER - BLK<br>-(800X-61")                |
| 7      | 5410223AA | 1   | PLATE, TOP GUARD, 61" - BLK<br>-(IS2100Z-61")                          |
| 8      | 5401436AA | 1   | GUARD, BELT, 61", 2000 FASTVAC - BLK<br>-(S200XT-61" / F210Z-61")      |
| 9      | 5411993AA | 1   | BELT SHIELD, 61" COMM BLWR - BLK<br>-(IS3100Z-61")                     |
| 10     | 5412518AA | 1   | PLATE, TOP GUARD, 2100-52" - BLK<br>-(IS2100Z-52")                     |
| 11     | 5409536A  | 1   | PLATE, TOP GUARD, 52 - BLK<br>-(S150XT-52" / F160Z-52")                |
| 12     | 5412575AA | 1   | SHIELD, BELT, 800-61, BLOWER - BLK<br>-(800X-61")                      |
| 13     | 5103682   | 1   | DOUBLE PULLEY, DECK, 61" TP<br>-(IS2100Z-61" / S200XT-61" / F210Z-61") |
| 14     | 5102067   | 1   | PULLEY, DOUBLE, DH4600, 5.95 OD TAPERED<br>-(IS3100Z-61")              |
| 15     | 5103468   | 1   | PULLEY, DOUBLE, 52" DECK<br>-(IS2100Z-52" / S150XT-52" / F160Z-52")    |
| 16     | 5104317   | 1   | DOUBLE PULLEY, DECK, 800-61", T-MAX<br>-(800X-61")                     |
| 17     | 5101731   | 5   | KNOB, 5/16-18 X 1.00, ROSETTE, BLK                                     |
| 18     | 5022308   | 4   | BODY CLIP, 5/16-18-7GA MATERIAL                                        |
| 19     | 5413841AA | 1   | SHIELD, BELT, 3200-61", BLOWER - BLK<br>-(IS3200Z-61" / F320Z-61")     |
| 20     | 5413834AA | 1   | GUARD, DECK PULLEY, 3200-61" - BLK<br>-(IS3200Z-61" / F320Z-61")       |
| 21     | 5104573   | 1   | PULLEY, DOUBLE, 5.95/6.43 OD, IS3200<br>-(IS3200Z-61" / F320Z-61")     |
| 22     | 5020819   | 1   | BUSHING, TAPERED HUB<br>-(IS3200Z-61" / F320Z-61")                     |
| 23     | 5101731   | 1   | KNOB, 5/16-18 X 1.00, ROSETTE, BLK<br>-(IS3200Z-61" / F320Z-61")       |
| 24     | 5022308   | 1   | BODY CLIP, 5/16-18-7GA MATERIAL<br>-(IS3200Z-61" / F320Z-61")          |
| 25     | 5025288   | 2   | WASHER, 1/4 FENDER<br>-(IS3200Z-61" / F320Z-61")                       |
| 26     | 5025010X6 | 1   | BOLT, 1/4-20 X 3/4 GD5 CZ<br>-(IS3200Z-61" / F320Z-61")                |
| 27     | 5025010X8 | 2   | BOLT, 1/4-20 X 1" GD5 CZ<br>-(IS3200Z-61" / F320Z-61")                 |
| 28     | 5022726   | 1   | KEY 1/4 SQ X 1 1/2 LONG<br>-(IS3200Z-61" / F320Z-61")                  |
| 29     | 5025391   | 1   | NUT, 1/4-20 HEX NYLOCK FLANGE<br>-(IS3200Z-61" / F320Z-61")            |

**Weight Mount Group, 99/100/150 LBS**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5600776

5300189



### **Weight Mount Group, 99/100/150 LBS**

| 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 YELLOW CON                                           |
| 6      | 1700000    | 3   | WEIGHT-QUICK ATTACH 33LBS PAINTED BLACK<br>-(2-Bag Collection Systems)   |
| 6      | 1717627    | 3   | WEIGHT-QUICK ATTACH 50LB SUITCASE PAINTED<br>-(3-Bag Collection Systems) |
| 7      | 5025210    | 2   | PIN, HAIR, .0915 X 1-7/8                                                 |
| 8      | 5025324X10 | 2   | BOLT, CARRIAGE 1/2-13 X 1-1/4 GD.5                                       |
| 9      | 5025396    | 2   | NUT, Hex Flange, Nylock, 1/2-13                                          |

Not For  
Reproduction

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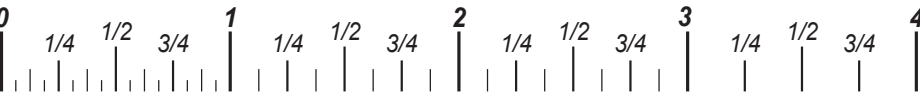
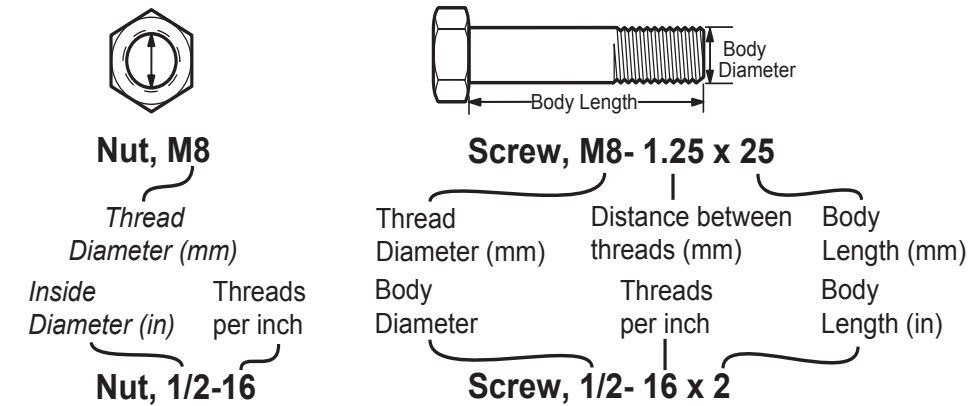
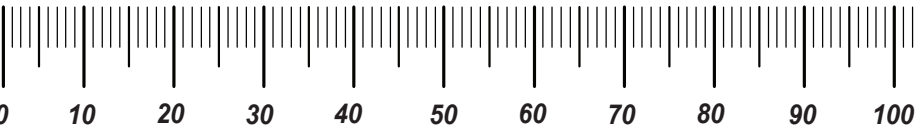
**Footnotes:**

(Older 2-Bag Collection Systems used two (2) 50 lbs weight (P/N: 1717627))

# Hardware Identification & Torque Specifications

| Torque Specification Chart                             |                                                                                                |      |                                                                                                |      |                                                                                                 |      |                                                                                                 |      |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------|------|
| FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%) |                                                                                                |      |                                                                                                |      |                                                                                                 |      |                                                                                                 |      |
| Property Class                                         | <br>Class 5.6 |      | <br>Class 8.8 |      | <br>Class 10.9 |      | <br>Class 12.9 |      |
| Size Of Hardware                                       | in/lbs<br>ft/lbs                                                                               | Nm.  | in/lbs<br>ft/lbs                                                                               | Nm.  | in/lbs<br>ft/lbs                                                                                | Nm.  | in/lbs<br>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).

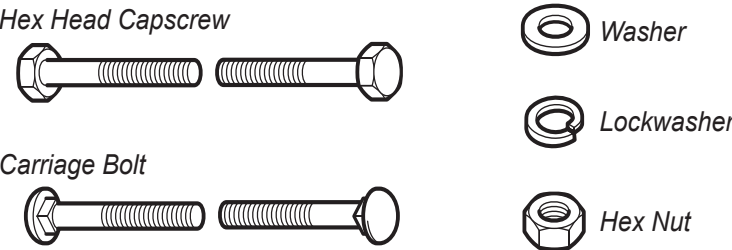
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

| Torque Specification Chart                      |                                                                                                    |       |                                                                                                    |       |                                                                                                    |         |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------|---------|
| FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%) |                                                                                                    |       |                                                                                                    |       |                                                                                                    |         |
| Hardware Grade                                  | <br>SAE Grade 2 |       | <br>SAE Grade 5 |       | <br>SAE Grade 8 |         |
| Size Of Hardware                                | in/lbs<br>ft/lbs                                                                                   | Nm.   | in/lbs<br>ft/lbs                                                                                   | Nm.   | in/lbs<br>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

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

