# Parts Manual

Mfg. No: 5901893

FW45 CC Series with 52" Side Discharge Mower Deck (FW45CCBVE2852)

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12-May-2024

## Model Components


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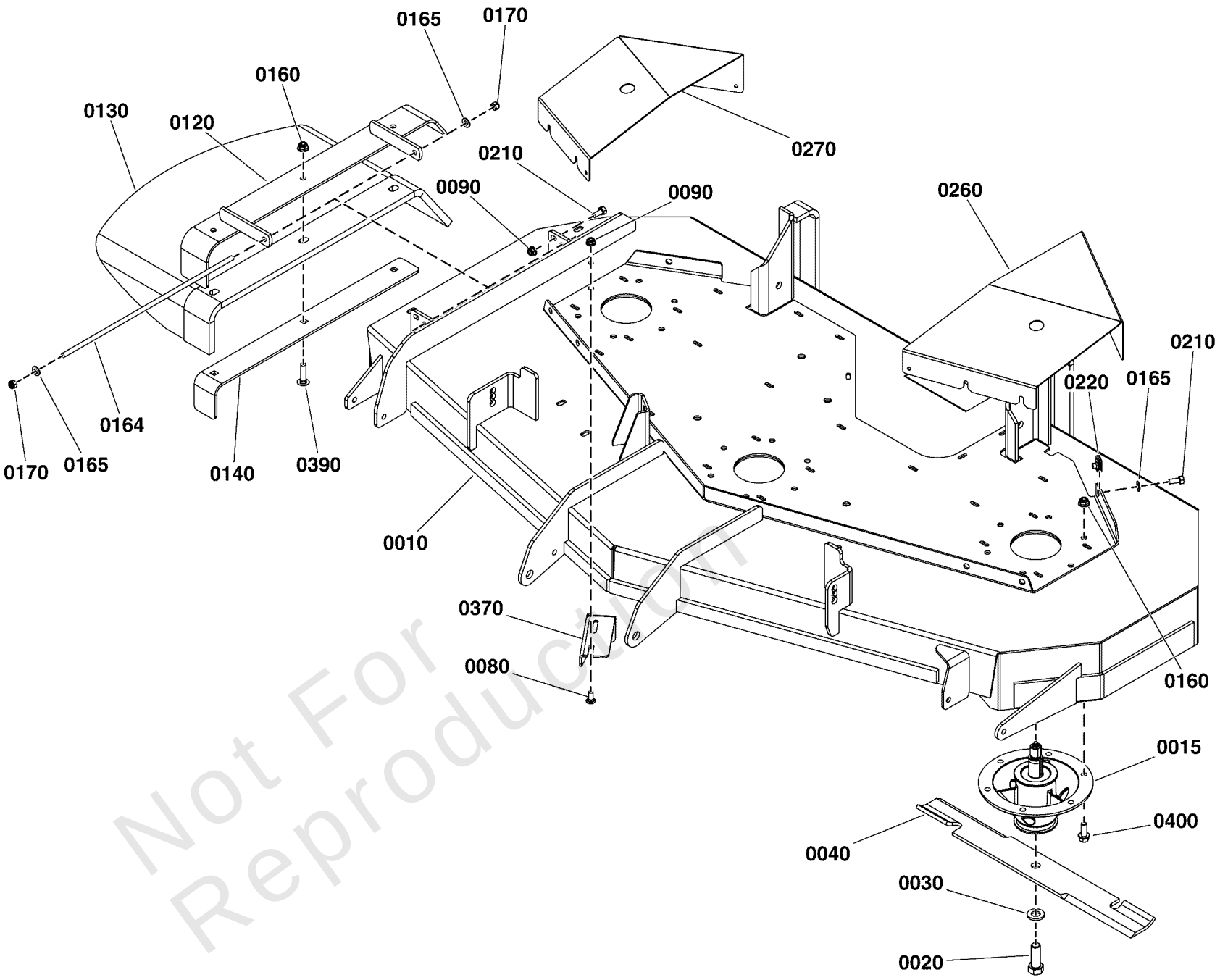
# 52" Mower Deck Group - Housing, Covers, Spindles, and Blades

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *52" Mower Deck Group - Housing, Covers, Spindles, and Blades*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0010 | 5601106 | 1 | DECK SHELL W/ DECALS, FW35-52 (5422046B) |
| 0015 | 5100993 | 3 | SPINDLE ASSM, CAST IRON 8.0 - 6-BOLT |
| 0020 | 5025320X14 | 3 | BOLT, 5/8-11 X 1-3/4 GD8 |
| 0030 | 5025477 | 3 | WASHER, BLADE BOLT, 9/16" F436, CZ |
| 0040 | 5101756S | 1 | BLADE, 18 X .25 X 2.5, 1 X 3.5 (SET OF THREE) -(Refer to Note :*) |
| 0080 | 5025145X6 | 2 | BOLT, 5/16-18 X 3/4, CARRIAGE, GD5, CZ |
| 0090 | 5025392 | 3 | NUT, 5/16-18 HEX NYLOCK FLANGE NUT |
| 0120 | 5413400AA | 1 | NLA - WELD, MOUNT, DISCHARGE CHUTE - BLK |
| 0130 | 84011105 | 1 | CHUTE, Discharge |
| 0140 | 5413398AA | 1 | SUPPORT, DISCHARGE CHUTE - BLK |
| 0160 | 5025394 | 21 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 0164 | 5061300 | 1 | ROD, MOUNT, CHUTE, 61, CZ |
| 0165 | 5025155 | 8 | WASHER, 5/16" SAE |
| 0170 | 5025045 | 2 | NUT, 5/16-24 HEX NYLON LOCK |
| 0210 | 5025011X6 | 7 | BOLT, 5/16-18 X 3/4 GD5 |
| 0220 | 5022308 | 6 | BODY CLIP, 5/16-18-7GA MATERIAL |
| 0260 | 5412336B | 1 | GUARD, DECK, 52, LH - RED |
| 0270 | 5412335B | 1 | GUARD, DECK, 52, RH - RED |
| 0370 | 84003127 | 1 | DEFLECTOR |
| 0390 | 5025146X12 | 3 | BOLT, 3/8-16 X 1-1/2, CARRIAGE, GD5, CZ |
| 0400 | 5025390X8 | 18 | BOLT, 3/8-16 X 1, FLANGE, GD 5, CZ |

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**Footnotes:**

Note : * Set of 3 blades.

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# *52" Mower Deck Group - Pulleys, Belt, and Idler Arm S/N: 4001694244 and below*

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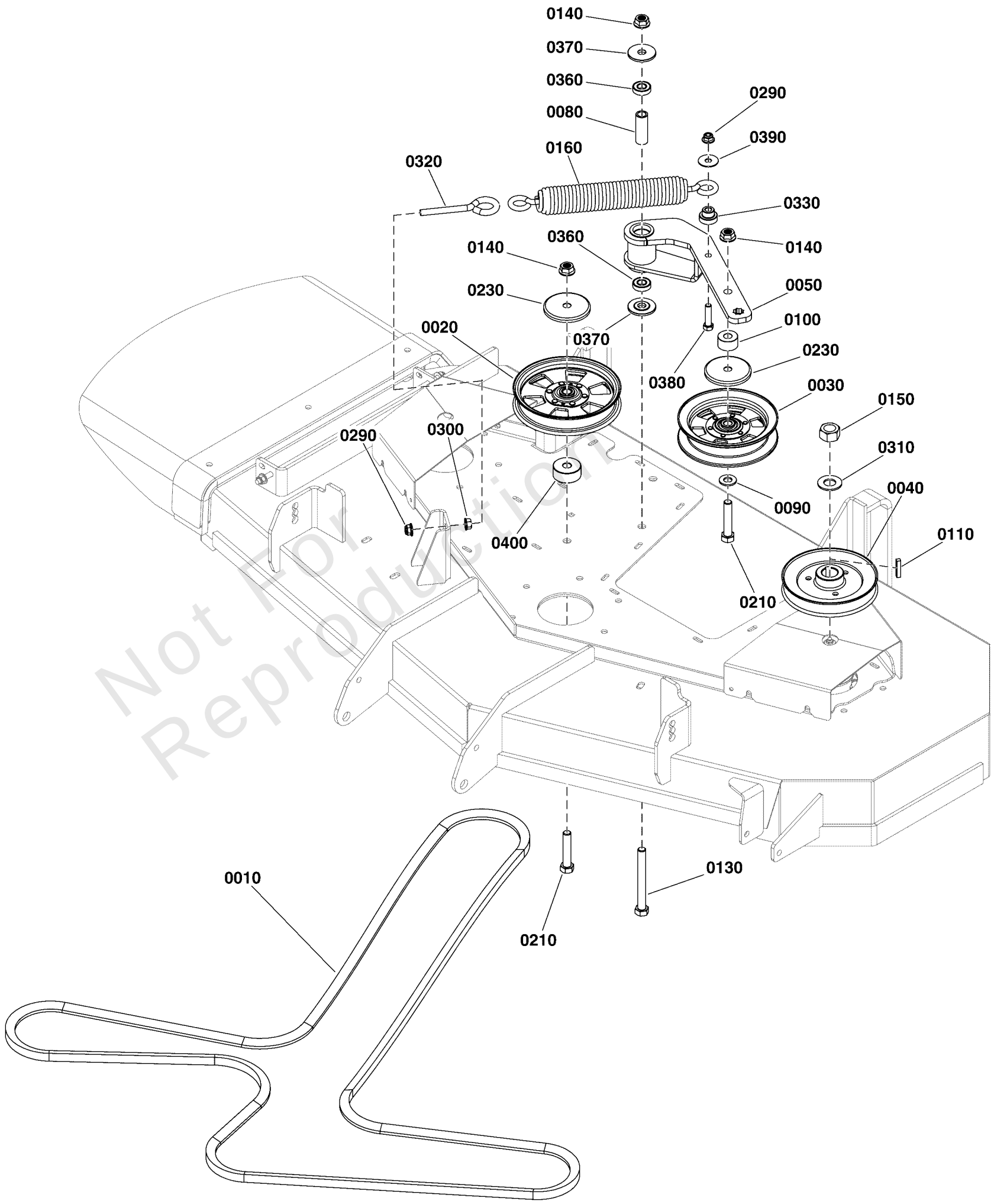
Mfg. No: 5901893

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## *52" Mower Deck Group - Pulleys, Belt, and Idler Arm S/N: 4001694244 and below*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0010 | 5103392 | 1 | BELT, 5V, 147.40"EL, LRG ARAMID,WRPD, RC |
| 0020 | 5104717 | 2 | PULLEY, FLT IDLR, 6.0 X 1.0 X .50, CZ |
| 0030 | 5104716 | 1 | PULLEY,IDLER,BACKSIDE,NOSEAM 6.25ODX.5ID |
| 0040 | 5101351 | 3 | PULLEY, 5.926OB X .985ID, SINGLE B-SEC |
| 0050 | 5412371A | 1 | WELD, TENSION ARM, CUTTER DECK - BLK |
| 0080 | 5104172 | 1 | SPACER, .505 X .75 X 2.085, CZ |
| 0090 | 5025158 | 1 | WASHER, 1/2 SAE |
| 0100 | 5047142 | 1 | SPACER, .52 X 1.25 X .70, PM, CZ |
| 0110 | 5050407X10 | 3 | KEY, 1/4" SQ. X 1-1/4 |
| 0130 | 5025017X36 | 1 | BOLT, 1/2-13 X 4-1/2" GD5 YZ |
| 0140 | 5025396 | 4 | NUT,  Hex Flange, Nylock,  1/2-13 |
| 0150 | 5025405 | 3 | NUT, 3/4-16 Hex |
| 0160 | 5104166 | 1 | SPRING, EXT, 1.5ODX12.25X.234WIRE BLK |
| 0210 | 5025017X20 | 3 | BOLT, 1/2-13 X 2-1/2" GD5 CZ |
| 0230 | 5105145 | 3 | SHIELD, BEARING, 1/2 ID X 2-7/8 OD, CZ |
| 0290 | 5025394 | 2 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 0300 | 5025128 | 1 | NUT, 3/8-16 Hex Large Serrated Flange |
| 0310 | 5025406 | 3 | WASHER, 3/4 BELLEVILLE CL/ZC |
| 0320 | 5023497 | 1 | EYE BOLT, 3/8-16 X 5, 2.88THRD, 1EYE, CZ |
| 0330 | 5102406 | 1 | SPACER, .38 X 1.13 X .781 STEP, CZ |
| 0360 | 7078243 | 2 | BEARING, BALL, AXLE |
| 0370 | 5103262 | 2 | SPACER, IDLER ARM, 1/2, PM |
| 0380 | 5025013X12 | 1 | BOLT, 3/8-16 X 1-1/2" GD5 CZ |
| 0390 | 5025165 | 1 | WASHER, 3/8" Fender |
| 0400 | 5046916 | 2 | SPACER, .51 x 1.75 x .75 |

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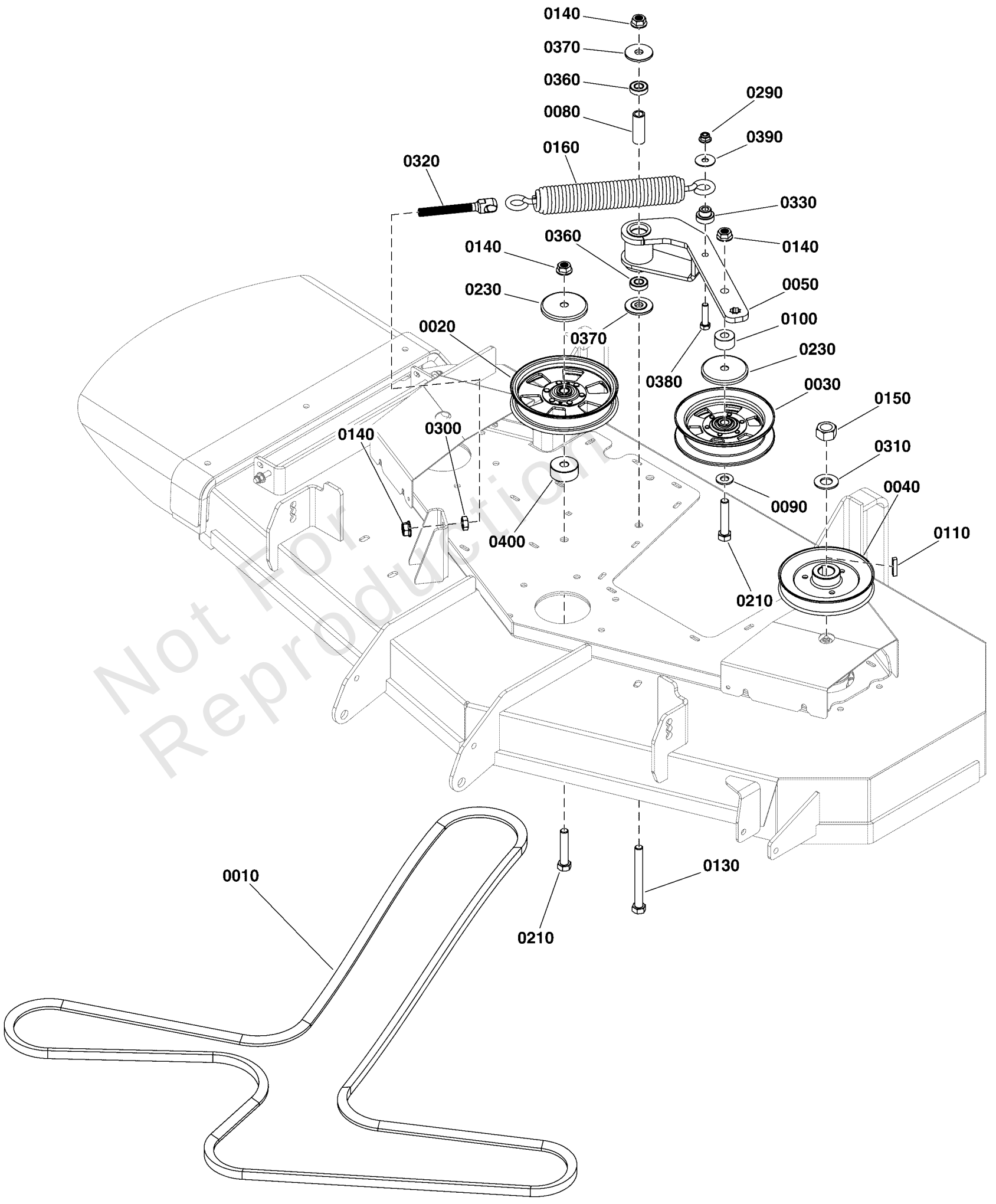
# 52" Mower Deck Group - Pulleys, Belt, and Idler Arm S/N: 4001694245 and above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *52" Mower Deck Group - Pulleys, Belt, and Idler Arm S/N: 4001694245 and above*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0010 | 5103392 | 1 | BELT, 5V, 147.40"EL, LRG ARAMID,WRPD, RC |
| 0020 | 5104717 | 2 | PULLEY, FLT IDLR, 6.0 X 1.0 X .50, CZ |
| 0030 | 5104716 | 1 | PULLEY,IDLER,BACKSIDE,NOSEAM 6.25ODX.5ID |
| 0040 | 5101351 | 3 | PULLEY, 5.926OB X .985ID, SINGLE B-SEC |
| 0050 | 5412371A | 1 | WELD, TENSION ARM, CUTTER DECK - BLK |
| 0080 | 5104172 | 1 | SPACER, .505 X .75 X 2.085, CZ |
| 0090 | 5025158 | 1 | WASHER, 1/2 SAE |
| 0100 | 5047142 | 1 | SPACER, .52 X 1.25 X .70, PM, CZ |
| 0110 | 5050407X10 | 3 | KEY, 1/4" SQ. X 1-1/4 |
| 0130 | 5025017X36 | 1 | BOLT, 1/2-13 X 4-1/2" GD5 YZ |
| 0140 | 5025396 | 5 | NUT,  Hex Flange, Nylock,  1/2-13 |
| 0150 | 5025405 | 3 | NUT, 3/4-16 Hex |
| 0160 | 5104166 | 1 | SPRING, EXT, 1.5ODX12.25X.234WIRE BLK |
| 0210 | 5025017X20 | 3 | BOLT, 1/2-13 X 2-1/2" GD5 CZ |
| 0230 | 5105145 | 3 | SHIELD, BEARING, 1/2 ID X 2-7/8 OD, CZ |
| 0290 | 5025394 | 1 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 0300 | 5025089 | 1 | NUT, 1/2-20 Hex Jam |
| 0310 | 5025406 | 3 | WASHER, 3/4 BELLEVILLE CL/ZC |
| 0320 | 5105844 | 1 | SPRING PULLER, 1/2-20, 5.00 |
| 0330 | 5102406 | 1 | SPACER, .38 X 1.13 X .781 STEP, CZ |
| 0360 | 7078243 | 2 | BEARING, BALL, AXLE |
| 0370 | 5103262 | 2 | SPACER, IDLER ARM, 1/2, PM |
| 0380 | 5025013X12 | 1 | BOLT, 3/8-16 X 1-1/2" GD5 CZ |
| 0390 | 5025165 | 1 | WASHER, 3/8" Fender |
| 0400 | 5046916 | 2 | SPACER, .51 x 1.75 x .75 |

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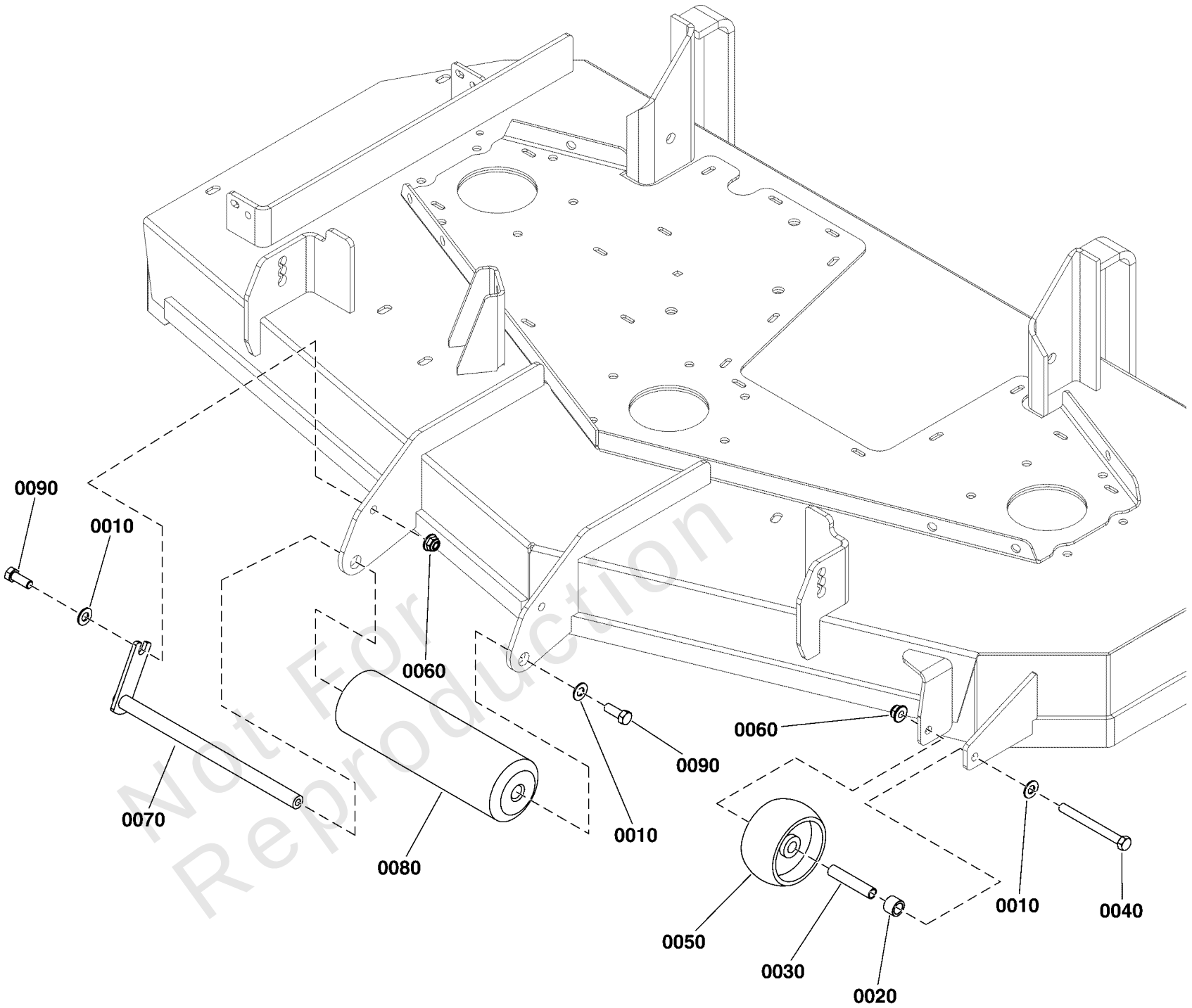
# *52" Mower Deck Group - Rollers*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *52" Mower Deck Group - Rollers*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0010 | 5025156 | 3 | WASHER, 3/8 SAE |
| 0020 | 5047027 | 1 | SPACER, .51 X .75 X .56, PM, CZ |
| 0030 | 5104675 | 1 | SPACER, .38 X .50 X 2.50, CZ |
| 0040 | 5025013X28 | 1 | BOLT, 3/8-16 X 3-1/2" GD5 CZ |
| 0050 | 1714760 | 1 | WHEEL- 2.00 WIDE  3.88 DIA 0.531ID POLY |
| 0060 | 5025394 | 2 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 0070 | 5105755 | 1 | PIN, ROLLER, CZ |
| 0080 | 5020785 | 1 | ROLLER, DECK |
| 0090 | 5025013X8 | 2 | BOLT, 3/8-16 X 1" GD5 CZ |

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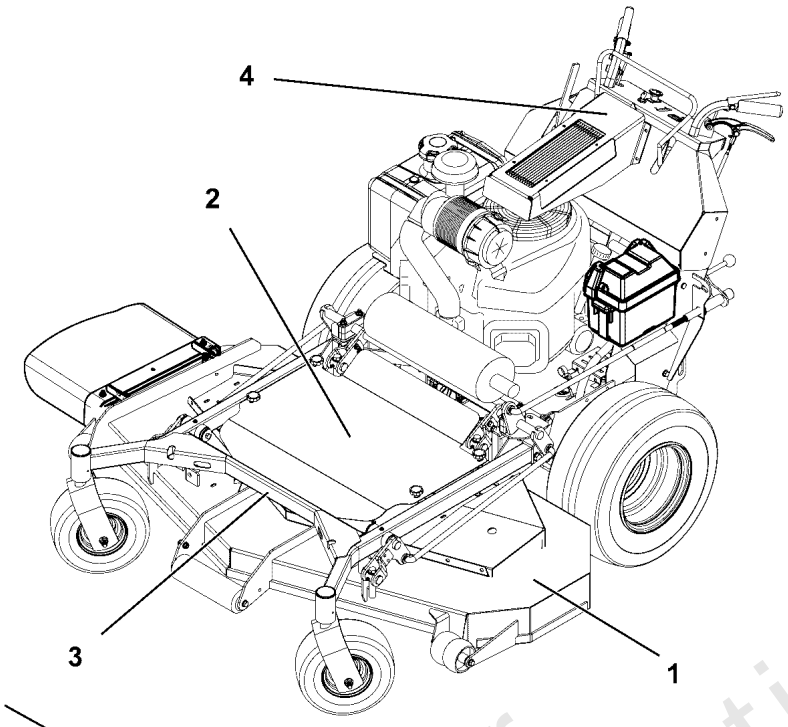


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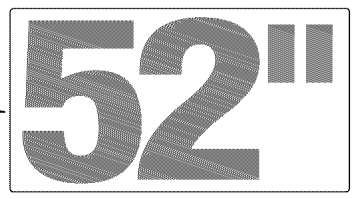


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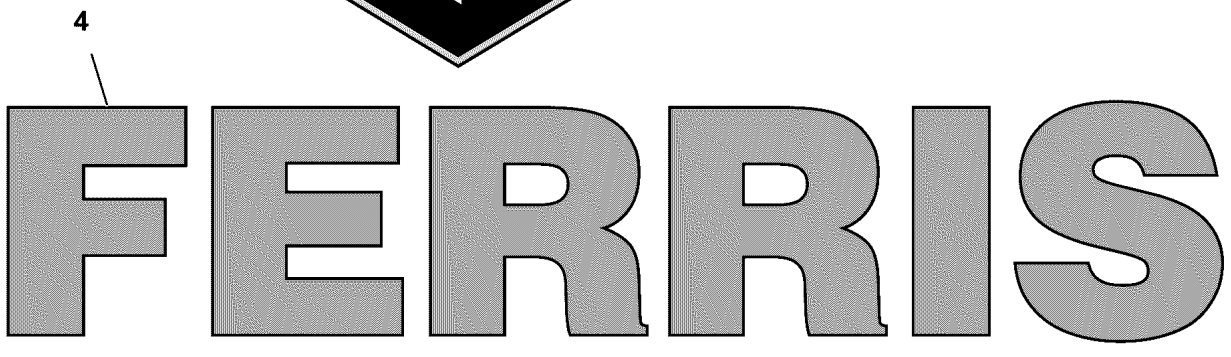
3

4

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## *Decal Group - Brand and Model*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 1 | 5022812 | 1 | DECAL, 52 |
| 2 | 5104767FS | 1 | DECAL, BRAND |
| 3 | 5108862 | 1 | DECAL, MODEL, W45 |
| 4 | 5107428 | 1 | DECAL, FERRIS TEXT, 5" |

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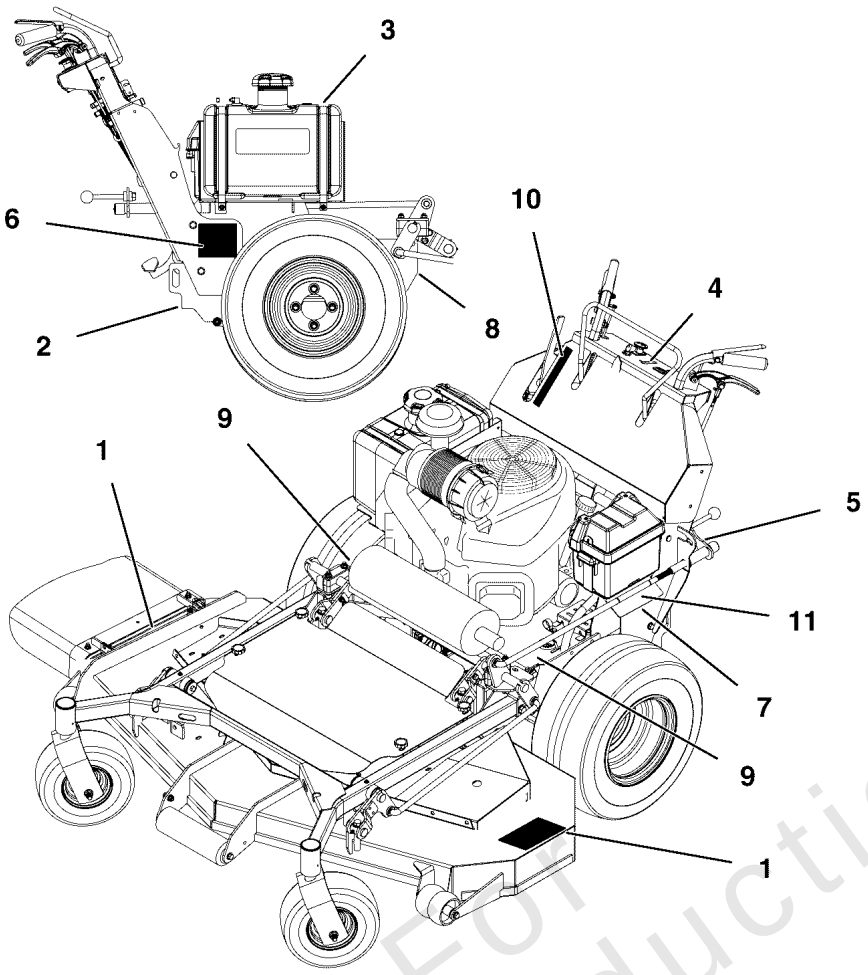
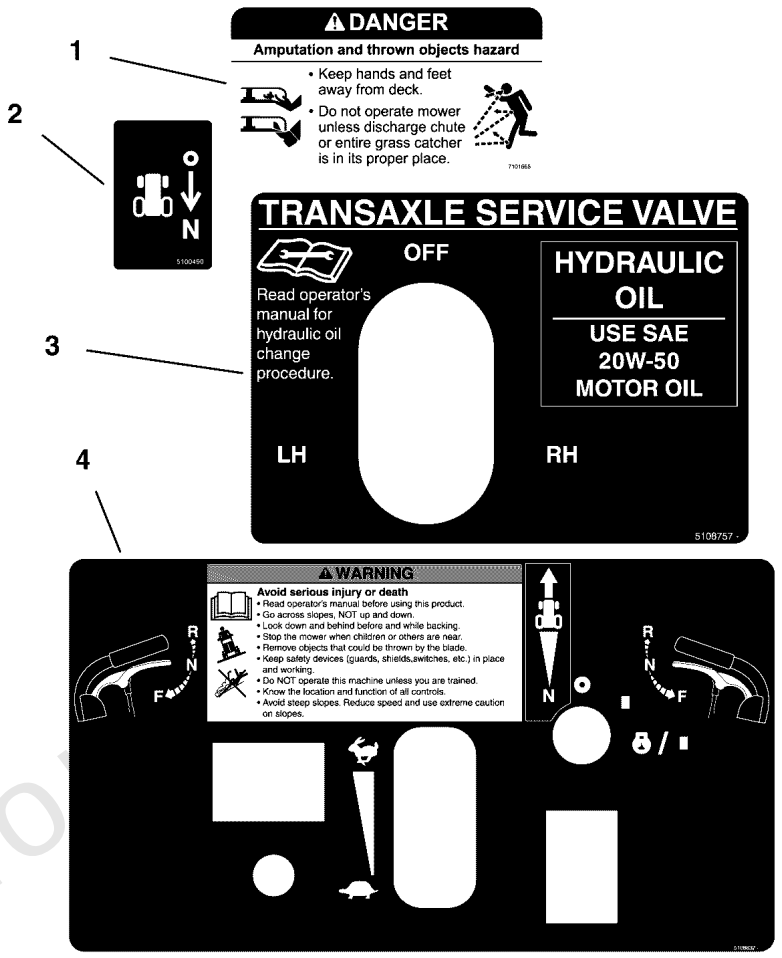
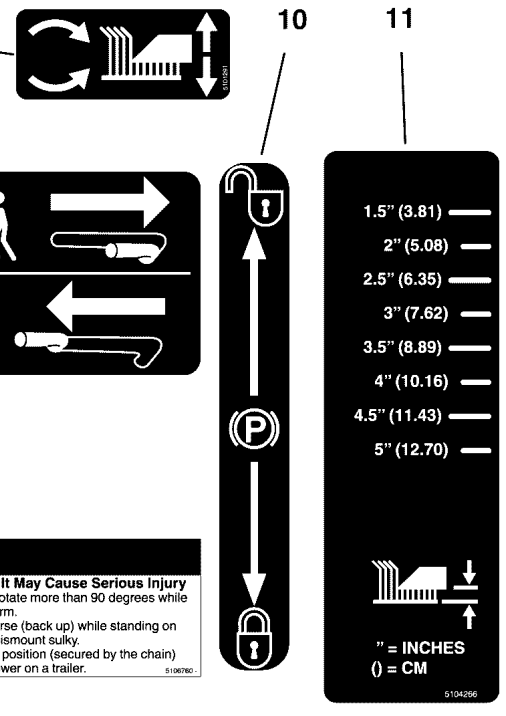
# Decal Group - Safety and Operation

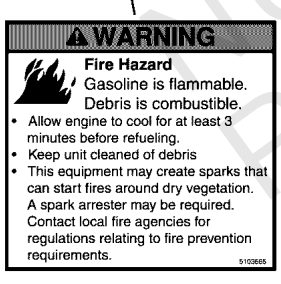
Note: Unless noted otherwise, use the standard torque specifications

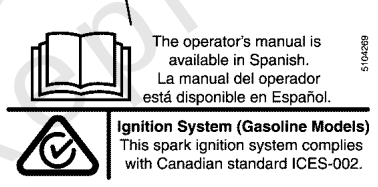
Mfg. No: 5901893

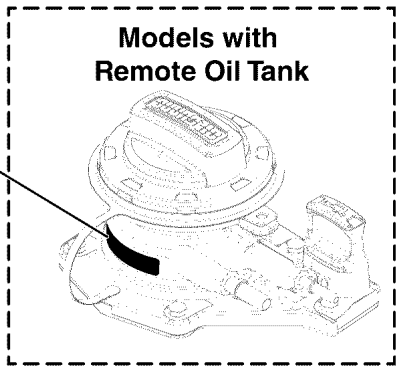


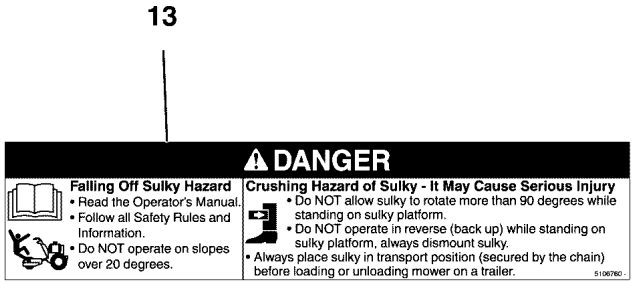



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## *Decal Group - Safety and Operation*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 1 | 7101665 | 2 | DECAL, DANGER DO NOT OPERATE W/O DEFLECT |
| 2 | 5100490 | 2 | DECAL, PEDAL |
| 3 | 5108757 | 1 | DECAL, TRANSAXLE SELECTOR VALVE |
| 4 | 84008377 | 1 | DECAL, Warning/Safety |
| 5 | 5101291 | 1 | DECAL, CUT HEIGHT, SPDD |
| 6 | 5103665 | 1 | DECAL, FIRE HAZARD, 3.25W X 3.0H |
| 7 | 5104269 | 1 | DECAL, SPANISH MANUAL, IGES, C-TICK |
| 8 | 5104213 | 1 | DECAL, BELT ROUTING, F/SW35 |
| 9 | 5104268 | 2 | DECAL, TRANSAXLE RELEASE, WB |
| 10 | 5102628 | 1 | DECAL, PARKING BRAKE SYMBOLS |
| 11 | 5104266 | 1 | DECAL, CUT HEIGHT, WB, 1.5"-5" |
| 12 | ----- | 1 | LABEL, OIL INFORMATION<br>-(Models w/ Remote Oil Tank Only) |
| 13 | 5106760 | 1 | DECAL, MAIN SAFETY, SULKY |

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# *Deck Lift Group S/N: 4001694244 and below*

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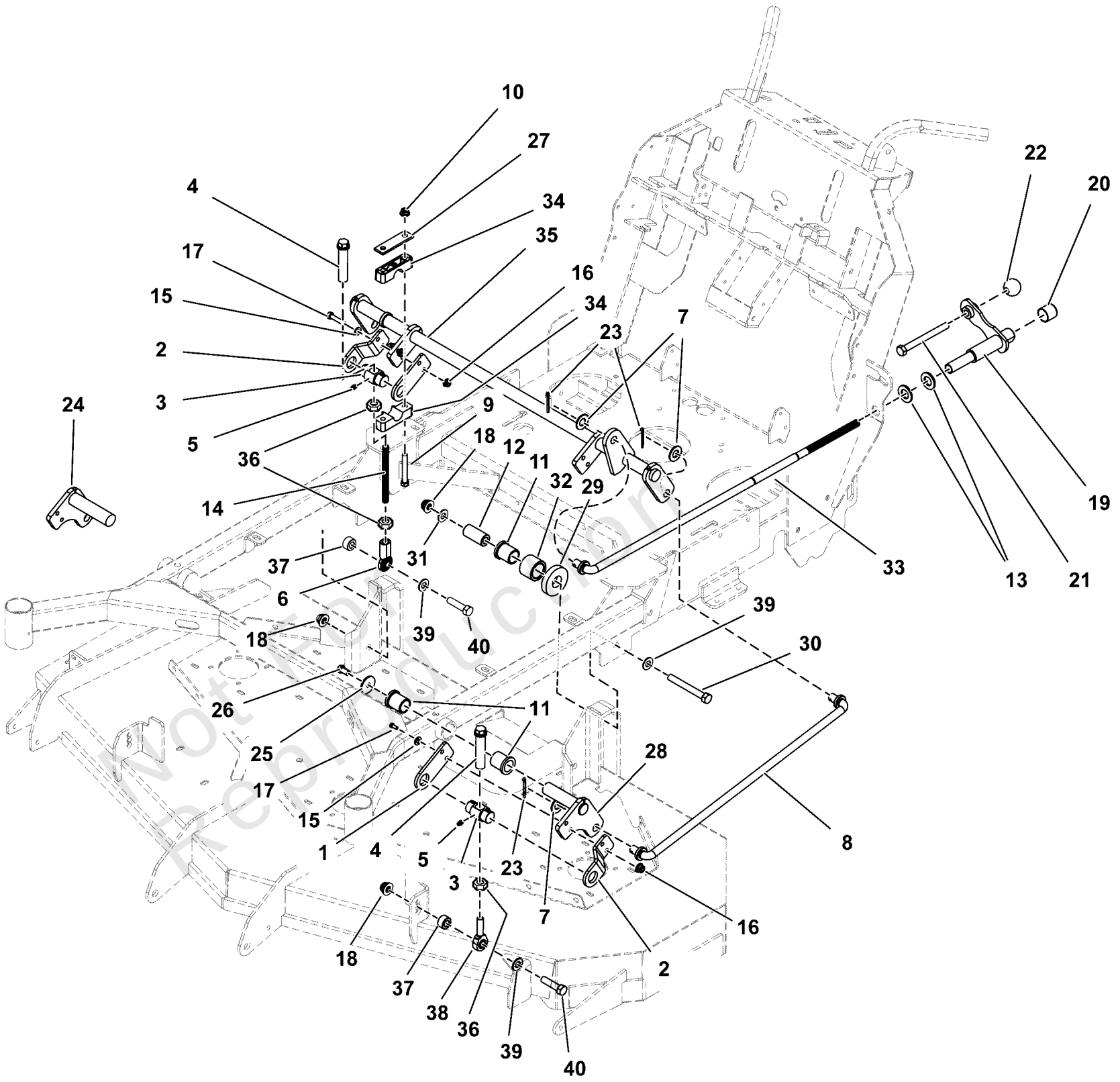


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## *Deck Lift Group S/N: 4001694244 and below*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 1 | 5413900A | 4 | BRACKET, INNER TRUNION MNT - BLK |
| 2 | 5413899A | 4 | BRACKET, OUTER TRUNION MNT - BLK |
| 3 | 5104238 | 4 | PIVOT, DECK LIFT TRUNION, GREASABLE |
| 4 | 5109915FS | 4 | ADJUSTER, HEIGHT |
| 5 | 5020095 | 4 | GREASE FITTING, 1/4-28 Straight |
| 6 | 1702779 | 2 | JOINT-BALL .500-20 THD .500ID, CLR ZINC |
| 7 | 5025281 | 5 | WASHER, 5/8" SAE |
| 8 | 5104209 | 2 | ROD, DECK LIFT TIMING, 48-52 |
| 9 | 5025013X22 | 4 | BOLT, 3/8-16 X 2-3/4" GD5 CZ |
| 10 | 5025394 | 4 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 11 | 5021541 | 6 | BUSHING, FLANGE |
| 12 | 5100732 | 2 | SPACER, .52 X 1.00 X 2.09 - SS |
| 13 | 5025160 | 2 | WASHER, 3/4 SAE |
| 14 | 5102665 | 2 | ROD, 1/2-20 X 5.50 TFL, CZ |
| 15 | 5025156 | 8 | WASHER, 3/8 SAE |
| 16 | 5025394 | 8 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 17 | 5025013X12 | 8 | BOLT, 3/8-16 X 1-1/2" GD5 CZ |
| 18 | 5025396 | 6 | NUT,  Hex Flange, Nylock,  1/2-13 |
| 19 | 5102774A | 1 | DECK CRANK, SW30 - BLK |
| 20 | 5102086 | 1 | CAP, VINYL, 1.062 X 1.00 BLK |
| 21 | 5025017X40 | 1 | BOLT, 1/2-13 X 5" GD5 YZ |
| 22 | 5021733 | 1 | KNOB, PLASTIC, 1/2-13 |
| 23 | 5025203X10 | 5 | PIN, COTTER, 1/8 X 1-1/4 |
| 24 | 5413896A | 1 | WELD, DECK LIFT LEVER, RH - BLK |
| 25 | 5100548 | 2 | WASHER, .390 X 1.50 X .109, YZ |
| 26 | 5025443 | 2 | BOLT, 3/8-16 X 3/4, PLT W/PATCH |
| 27 | 5403925A | 2 | PLATE, PIVOT BLOCK SUPPORT - BLK |
| 28 | 5413895A | 1 | WELD, DECK LIFT LEVER, LH - BLK |
| 29 | 5061010 | 2 | WASHER, FRICTION |
| 30 | 5025017X26 | 2 | BOLT, 1/2-13 X 3-1/4, HEX HD, GD5, CZ  (SV) |
| 31 | 5025150 | 2 | WASHER, 1/2" USSZ |
| 32 | 5100731 | 2 | ROLLER, DECK HEIGHT |
| 33 | 5104220 | 1 | ROD, DECK HEIGHT |
| 34 | 5100634 | 4 | PIVOT BLOCK, PLASTIC |
| 35 | 5413894A | 1 | WELD, SHAFT, DECK LIFT, SW35 - BLK |
| 36 | 5025089 | 2 | NUT, 1/2-20 Hex Jam |
| 37 | 5105392 | 4 | WASHER, .515 X 1.00 X .25", CZ |
| 38 | 5104267 | 2 | BALL JOINT, 1/2-20, RH, MALE, METAL RACE |
| 39 | 5025158 | 6 | WASHER, 1/2 SAE |
| 40 | 5025017X16 | 4 | BOLT, 1/2-13 X 2" GD5 CZ |

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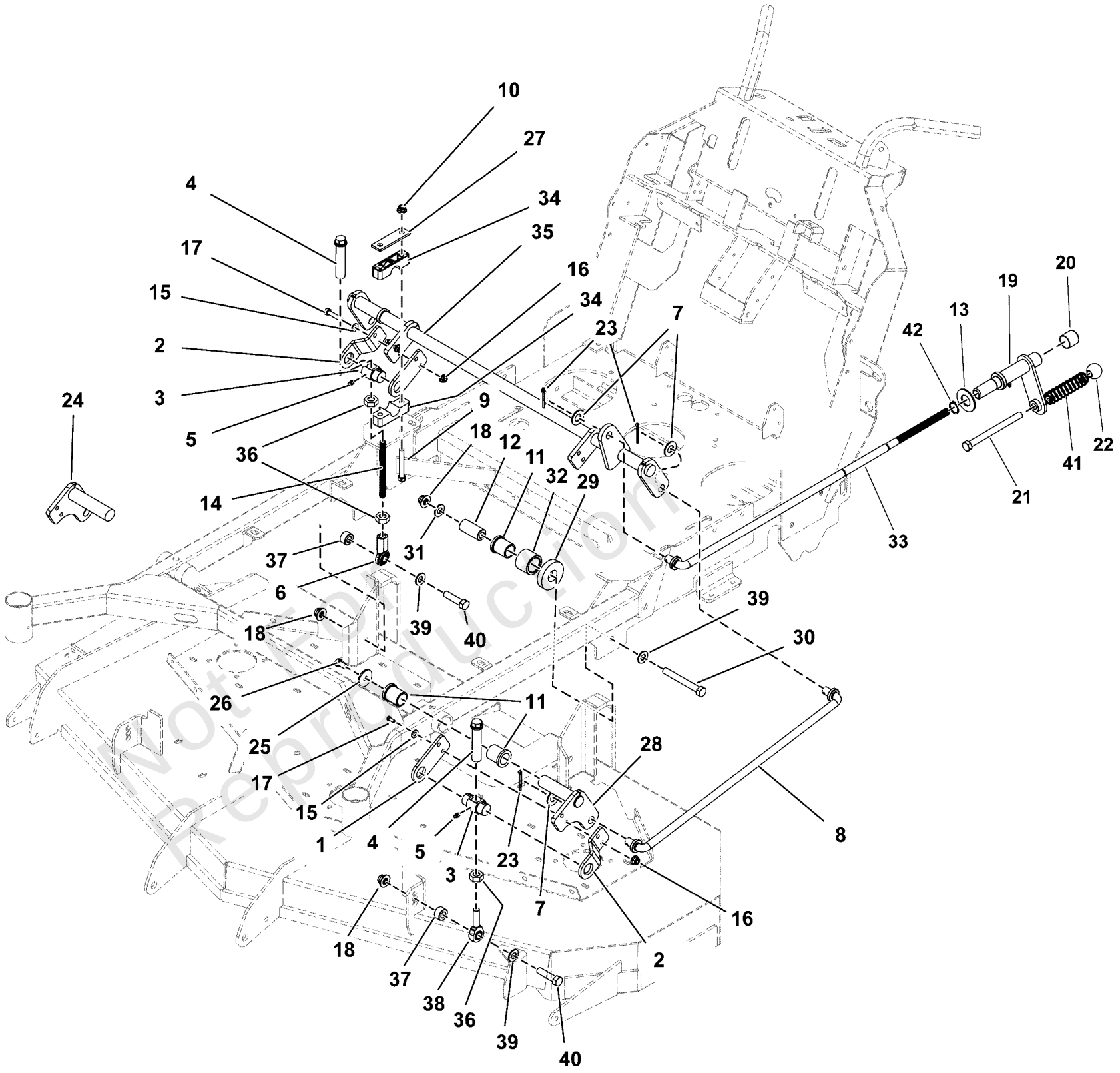
# *Deck Lift Group S/N: 4001694245 and above*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Deck Lift Group S/N: 4001694245 and above*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 1 | 5413900AA | 4 | BRACKET, INNER TRUNION MNT - BLK |
| 2 | 5413899AA | 4 | BRACKET, OUTER TRUNION MNT - BLK |
| 3 | 5104238 | 4 | PIVOT, DECK LIFT TRUNION, GREASABLE |
| 4 | 5109915FS | 4 | ADJUSTER, HEIGHT |
| 5 | 5020095 | 4 | GREASE FITTING, 1/4-28 Straight |
| 6 | 1702779 | 2 | JOINT-BALL .500-20 THD .500ID, CLR ZINC |
| 7 | 5025281 | 5 | WASHER, 5/8" SAE |
| 8 | 5104209 | 2 | ROD, DECK LIFT TIMING, 48-52 |
| 9 | 5025013X22 | 4 | BOLT, 3/8-16 X 2-3/4" GD5 CZ |
| 10 | 5025394 | 4 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 11 | 5021541 | 6 | BUSHING, FLANGE |
| 12 | 5100732 | 2 | SPACER, .52 X 1.00 X 2.09 - SS |
| 13 | 5025162 | 1 | WASHER-1.00  HYDRO CUT |
| 14 | 5102665 | 2 | ROD, 1/2-20 X 5.50 TFL, CZ |
| 15 | 5025156 | 8 | WASHER, 3/8 SAE |
| 16 | 5025394 | 8 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 17 | 5025013X12 | 8 | BOLT, 3/8-16 X 1-1/2" GD5 CZ |
| 18 | 5025396 | 6 | NUT,  Hex Flange, Nylock,  1/2-13 |
| 19 | 5109449 | 1 | CRANK, HANDLE, W45 |
| 20 | 5102086 | 1 | CAP, VINYL, 1.062 X 1.00 BLK |
| 21 | 5025017X48 | 1 | BOLT, 1/2-13 X 6" GD5 YZ |
| 22 | 5021733 | 1 | KNOB, PLASTIC, 1/2-13 |
| 23 | 5025203X10 | 5 | PIN, COTTER, 1/8 X 1-1/4 |
| 24 | 5413896AA | 1 | NLA - WELD, DECK LIFT LEVER, RH - BLK |
| 25 | 5100548 | 2 | WASHER, .390 X 1.50 X .109, YZ |
| 26 | 5025443 | 2 | BOLT, 3/8-16 X 3/4, PLT W/PATCH |
| 27 | 5403925AA | 2 | PLATE, PIVOT BLOCK SUPPORT - BLK |
| 28 | 5413895AA | 1 | WELD, DECK LIFT LEVER, LH - BLK |
| 29 | 5061010 | 2 | WASHER, FRICTION |
| 30 | 5025017X26 | 2 | BOLT, 1/2-13 X 3-1/4, HEX HD, GD5, CZ  (SV) |
| 31 | 5025150 | 2 | WASHER, 1/2" USSZ |
| 32 | 5100731 | 2 | ROLLER, DECK HEIGHT |
| 33 | 5104220 | 1 | ROD, DECK HEIGHT |
| 34 | 5100634 | 4 | PIVOT BLOCK, PLASTIC |
| 35 | 5413894AA | 1 | WELD, SHAFT, DECK LIFT, SW35 - BLK |
| 36 | 5025089 | 6 | NUT, 1/2-20 Hex Jam |
| 37 | 5105392 | 4 | WASHER, .515 X 1.00 X .25", CZ |
| 38 | 5104267 | 2 | BALL JOINT, 1/2-20, RH, MALE, METAL RACE |
| 39 | 5025158 | 6 | WASHER, 1/2 SAE |
| 40 | 5025017X16 | 4 | BOLT, 1/2-13 X 2" GD5 CZ |
| 41 | 5107543 | 1 | SPRING, FORWARD RETURN, FW15 |
| 42 | 5109482 | 1 | SNAP RING, EXTERNAL, 15/16" SHAFT |

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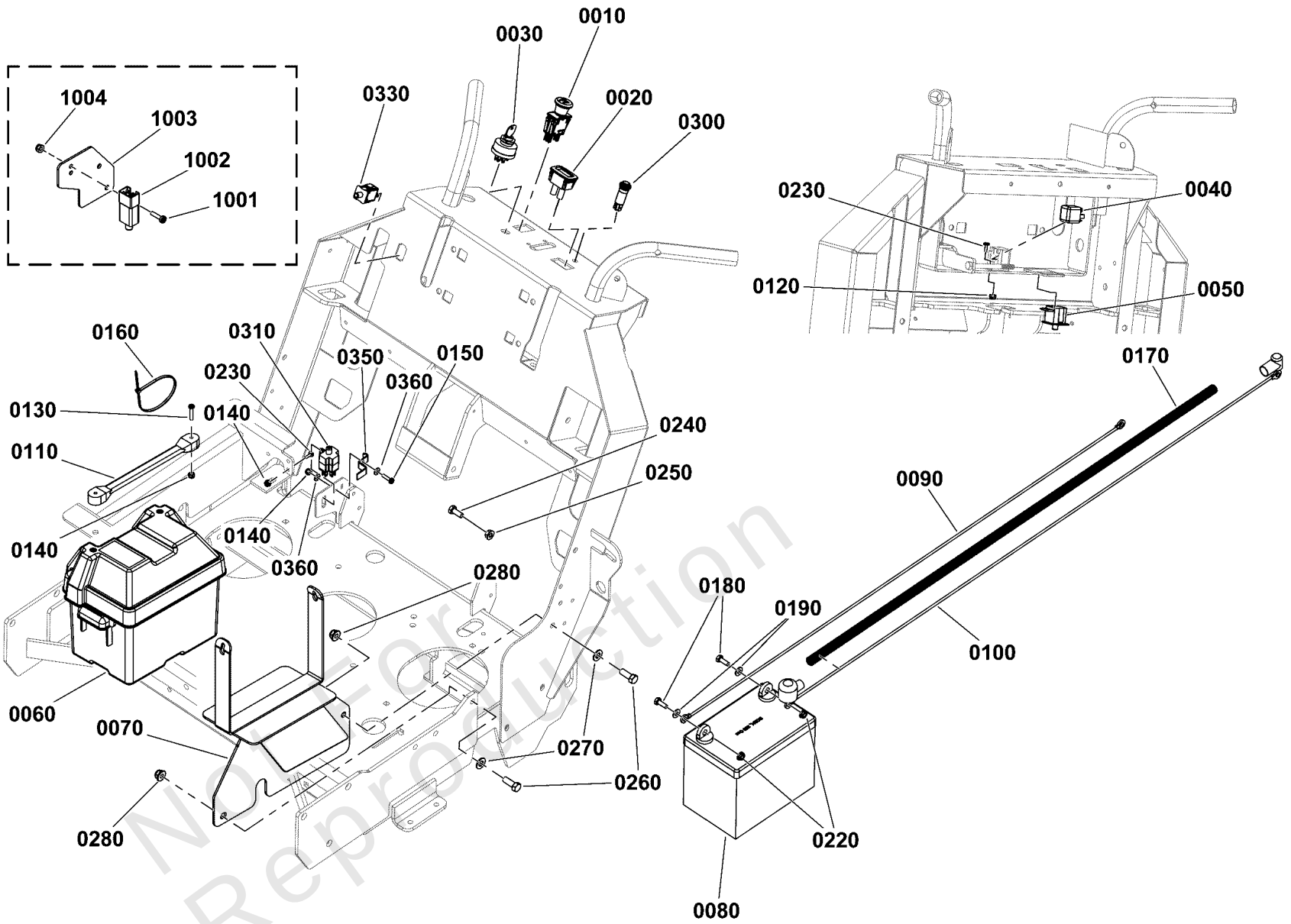
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

**0320 - Harness, W45 Wiring w/ Brake Switch**

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## *Electrical Group S/N: 4001694244 and below*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0010 | 5104697 | 1 | PTO SWITCH, MOMENTARY, SMALL KNOB |
| 0020 | 84008510 | 1 | HOURMETER |
| 0030 | 5020927 | 1 | SWITCH, IGNITION, 6 POST |
| 0040 | 5021766 | 1 | RELAY, 12 VOLT, 40 AMP |
| 0050 | 5101280 | 1 | SWITCH, PLUNGER, NO/NC SNAP-IN, LOW PROFILE |
| 0060 | 5100688 | 1 | BATTERY BOX, W/ DRAIN HOLE |
| 0070 | 5415329AA | 1 | WELD, MOUNT- BATTERY, W35 - BLK |
| 0080 | ----- | 1 | BATTERY, 11U1L, 350 CCA |
| 0090 | 5105301 | 1 | BATTERY CABLE,NEG, 42, 1/4-5/16 |
| 0100 | 5105300 | 1 | BATTERY CABLE, POS, 47, 1/4-5/16 |
| 0110 | 5021670 | 1 | STRAP, RUBBER |
| 0120 | 5025271 | 3 | NUT, Hex, Nylon Lock, #10-24 |
| 0130 | 5025270 | 2 | SCREW, #10-24 X 1 RS, CZ |
| 0140 | 5025271 | 2 | NUT, Hex, Nylon Lock, #10-24 |
| 0150 | 5025179X6 | 3 | SCREW, #10-24 X 3/4" ROUND PHILLIPS |
| 0160 | 5021029 | 8 | TIE, SELF-LOCKING, 12" |
| 0170 | 5050927X39 | 1 | WIRE LOOM, 3/8 ID X 39 IN |
| 0180 | 5025010X6 | 2 | BOLT, 1/4"-20 X 3/4" GD5 YZ |
| 0190 | 5025154 | 3 | WASHER, 1/4 SAE |
| 0220 | 5025126 | 2 | NUT, 1/4-20 HEX SERR. FLANGE |
| 0230 | 5025179X4 | 1 | SCREW, #10-24 X 1/2" ROUND PHILLIPS |
| 0240 | 5025249 | 1 | BOLT, M8-1.25 X 20 MM GD 8.8 |
| 0250 | 5025355 | 2 | NUT, M8-1.25 Hex Serrated Flange |
| 0260 | 5025013X8 | 2 | BOLT, 3/8-16 X 1" GD5 CZ |
| 0270 | 5025156 | 2 | WASHER, 3/8 SAE |
| 0280 | 5025394 | 2 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 0300 | 5103809 | 1 | LIGHT, INDICATOR, PANEL, LED, RED |
| 0310 | 5108764 | 1 | SWITCH, NC/NC/NO, 6300-001, DELTA |
| 0320 | 5108762 | 1 | HARNESS, W45 WIRING W/ BRAKE SW -(Refer to note: *) |
| 0330 | 5101589 | 1 | SWITCH, PLUNGER, NO, SINGLE POLE, SNAP-IN |
| 0350 | 5420445AA | 1 | CLAMP, SWITCH, 3 POLE RAIL MNT - BLK |
| 0360 | 5023499 | 2 | WASHER, #10 SAE |
| 1001 | 5025179X6 | 2 | SCREW, #10-24 X 3/4" ROUND PHILLIPS |
| 1002 | 1717050 | 1 | SWITCH, PLUNGER, N.O./N.C. |
| 1003 | 84008504 | 1 | PLATE, SWITCH |
| 1004 | 5025271 | 2 | NUT, Hex, Nylon Lock, #10-24 |

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**Footnotes:**

Note: *If replacing the wire harness you must also order items #1001, 1002, 1003, and 1004.

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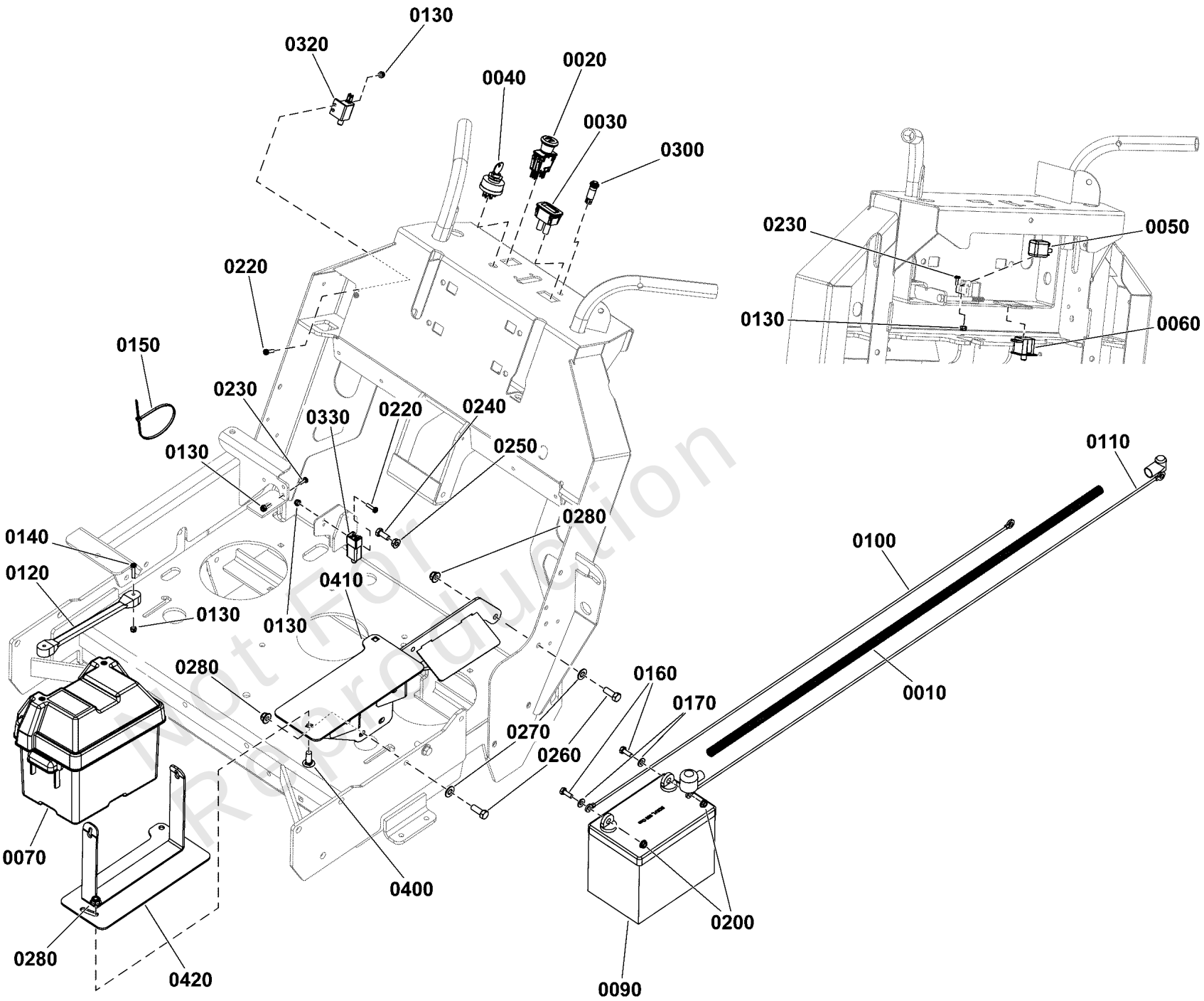
**0310 - Harness, W45 Wiring w/ Brake Switch**

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## *Electrical Group S/N: 4001694245 and above*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0010 | 5050927X39 | 1 | WIRE LOOM, 3/8 ID X 39 IN |
| 0020 | 5104697 | 1 | PTO SWITCH, MOMENTARY, SMALL KNOB |
| 0030 | 84008510 | 1 | HOURMETER |
| 0040 | 5020927 | 1 | SWITCH, IGNITION, 6 POST |
| 0050 | 5021766 | 1 | RELAY, 12 VOLT, 40 AMP |
| 0060 | 5101280 | 1 | SWITCH, PLUNGER, NO/NC SNAP-IN, LOW PROFILE |
| 0070 | 5100688 | 1 | BATTERY BOX, W/ DRAIN HOLE |
| 0090 | ----- | 1 | BATTERY, 11U1L, 350 CCA |
| 0100 | 5105301 | 1 | BATTERY CABLE,NEG, 42, 1/4-5/16 |
| 0110 | 5105300 | 1 | BATTERY CABLE, POS, 47, 1/4-5/16 |
| 0120 | 5021670 | 1 | STRAP, RUBBER |
| 0130 | 5025271 | 6 | NUT, Hex, Nylon Lock, #10-24 |
| 0140 | 5025270 | 2 | SCREW, #10-24 X 1 RS, CZ |
| 0150 | 5021029 | 8 | TIE, SELF-LOCKING, 12" |
| 0160 | 5025010X6 | 1 | BOLT, 1/4"-20 X 3/4" GD5 YZ |
| 0170 | 5025154 | 3 | WASHER, 1/4 SAE |
| 0200 | 5025126 | 2 | NUT, 1/4-20 HEX SERR. FLANGE |
| 0220 | 5025179X6 | 3 | SCREW, #10-24 X 3/4" ROUND PHILLIPS |
| 0230 | 5025179X4 | 1 | SCREW, #10-24 X 1/2" ROUND PHILLIPS |
| 0240 | 5025249 | 1 | BOLT, M8-1.25 X 20 MM GD 8.8 |
| 0250 | 5025355 | 2 | NUT, M8-1.25 Hex Serrated Flange |
| 0260 | 5025013X8 | 3 | BOLT, 3/8-16 X 1" GD5 CZ |
| 0270 | 5025156 | 3 | WASHER, 3/8 SAE |
| 0280 | 5025394 | 5 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 0300 | 5103809 | 1 | LIGHT, INDICATOR, PANEL, LED, RED |
| 0310 | 5108762 | 1 | HARNESS, W45 WIRING W/ BRAKE SW |
| 0320 | 5021451 | 1 | SWITCH, PLUNGER, N.O., BOLT-ON |
| 0330 | 1717050 | 1 | SWITCH, PLUNGER, N.O./N.C. |
| 0400 | 80004566 | 2 | BOLT,3/8-16X1.00,RD SH SQ NK,GR 5,ZC/CL |
| 0410 | 5421220AA | 1 | WELD, MNT BATTERY LOWER, OG, W45 - BLK |
| 0420 | 5421221AA | 1 | WELD, MNT BATTERY UPPER, OG, W45 - BLK |

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# *Electrical Schematic - Charging Circuit S/N: 4001694244 and below*

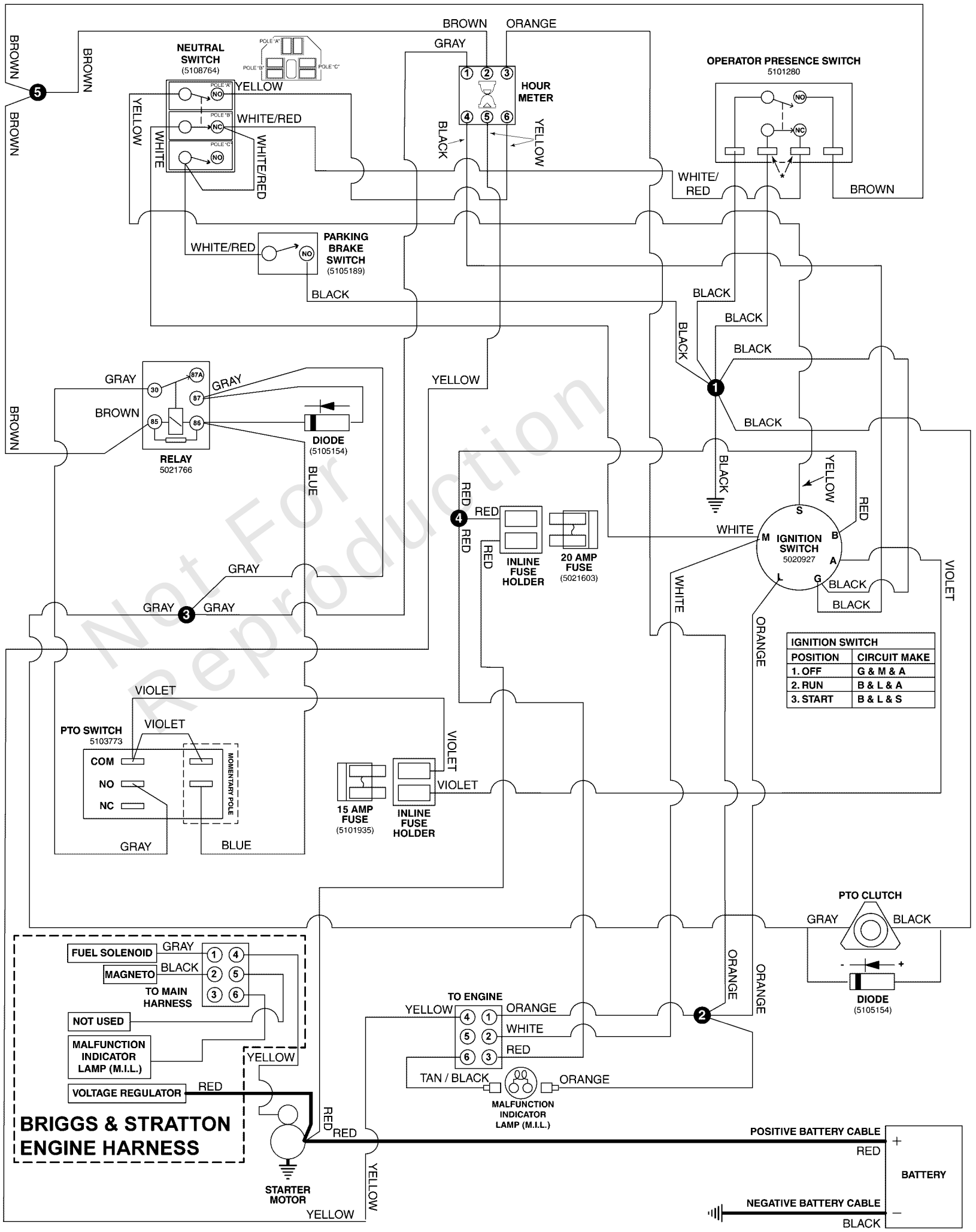
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

## 5108762 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49E877 EFI ENGINES

**5108762B**

(If internal schematic of the switch is not shown, the image of the switch represents the back view of the connector as it is connected to the switch.)
*This switch uses a "shorting" connector. When the connector is unplugged, the terminals going to the identified pole will have continuity.

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## *Electrical Schematic - Charging Circuit S/N: 4001694244 and below*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 5108762 | 5108762 | 1 | HARNESS, W45 WIRING W/ BRAKE SW |

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# *Electrical Schematic - Charging Circuit S/N: 4001694245 and above*

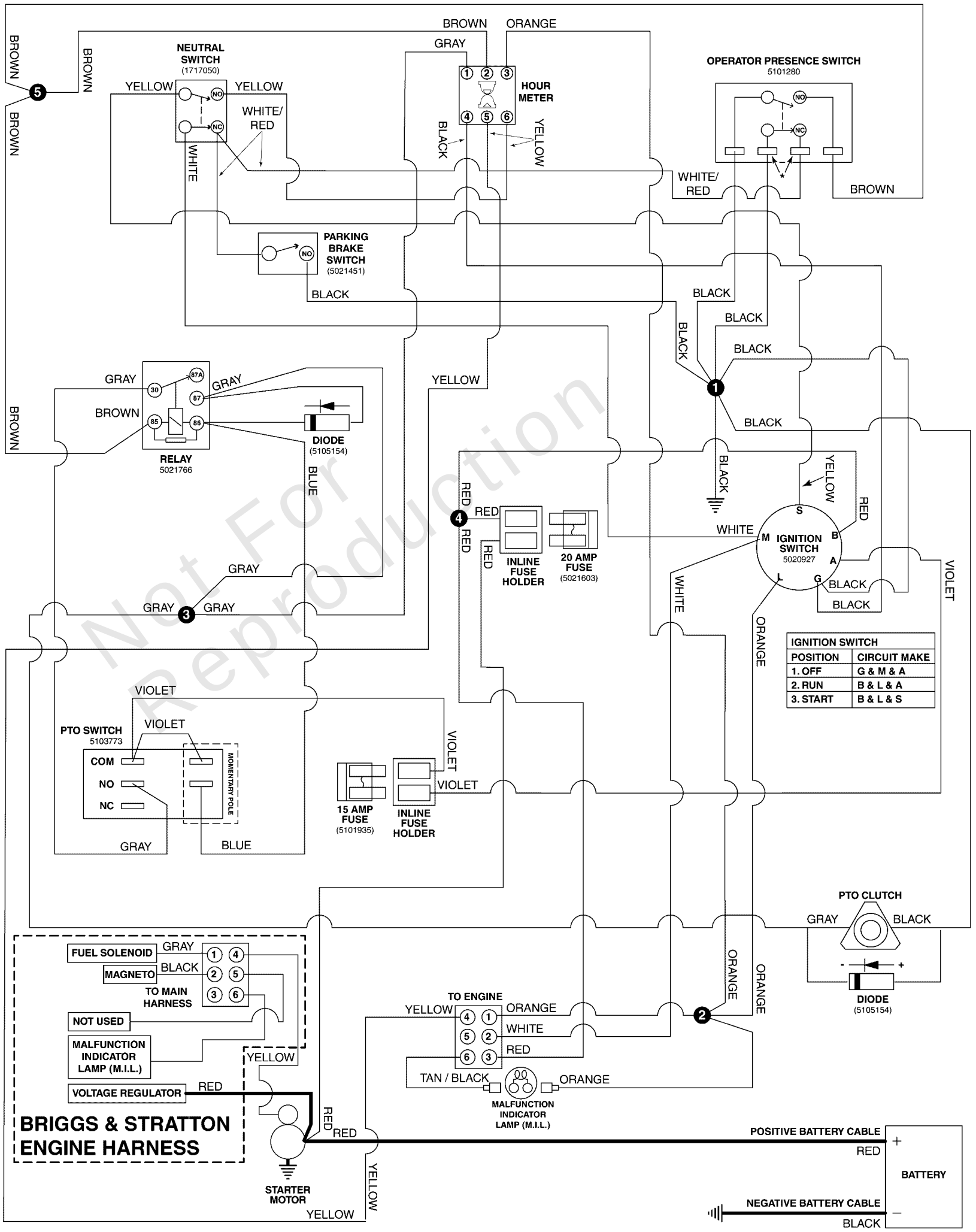
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

## 5108762 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49E877 EFI ENGINES

**5108762C**

(If internal schematic of the switch is not shown, the image of the switch represents the back view of the connector as it is connected to the switch.)
*This switch uses a "shorting" connector. When the connector is unplugged, the terminals going to the identified pole will have continuity.

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## *Electrical Schematic - Charging Circuit S/N: 4001694245 and above*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 5108762 | 5108762 | 1 | HARNESS, W45 WIRING W/ BRAKE SW |

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# *Electrical Schematic - Cranking Circuit S/N: 4001694244 and below*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

## 5108762 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49E877 EFI ENGINES

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(If internal schematic of the switch is not shown, the image of the switch represents the back view of the connector as it is connected to the switch.)
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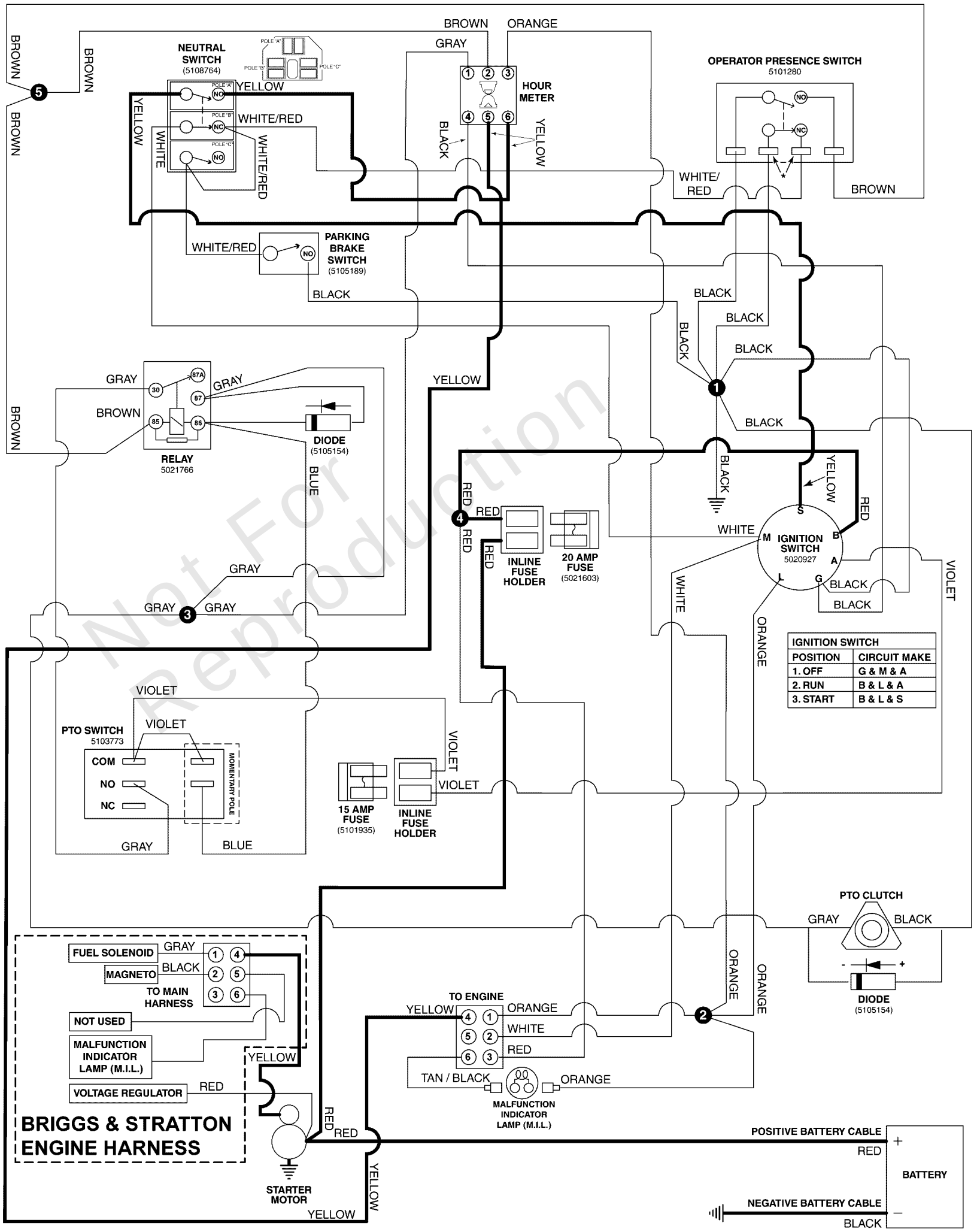


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## *Electrical Schematic - Cranking Circuit S/N: 4001694244 and below*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 5108762 | 5108762 | 1 | HARNESS, W45 WIRING W/ BRAKE SW |

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Mfg. No: 5901893

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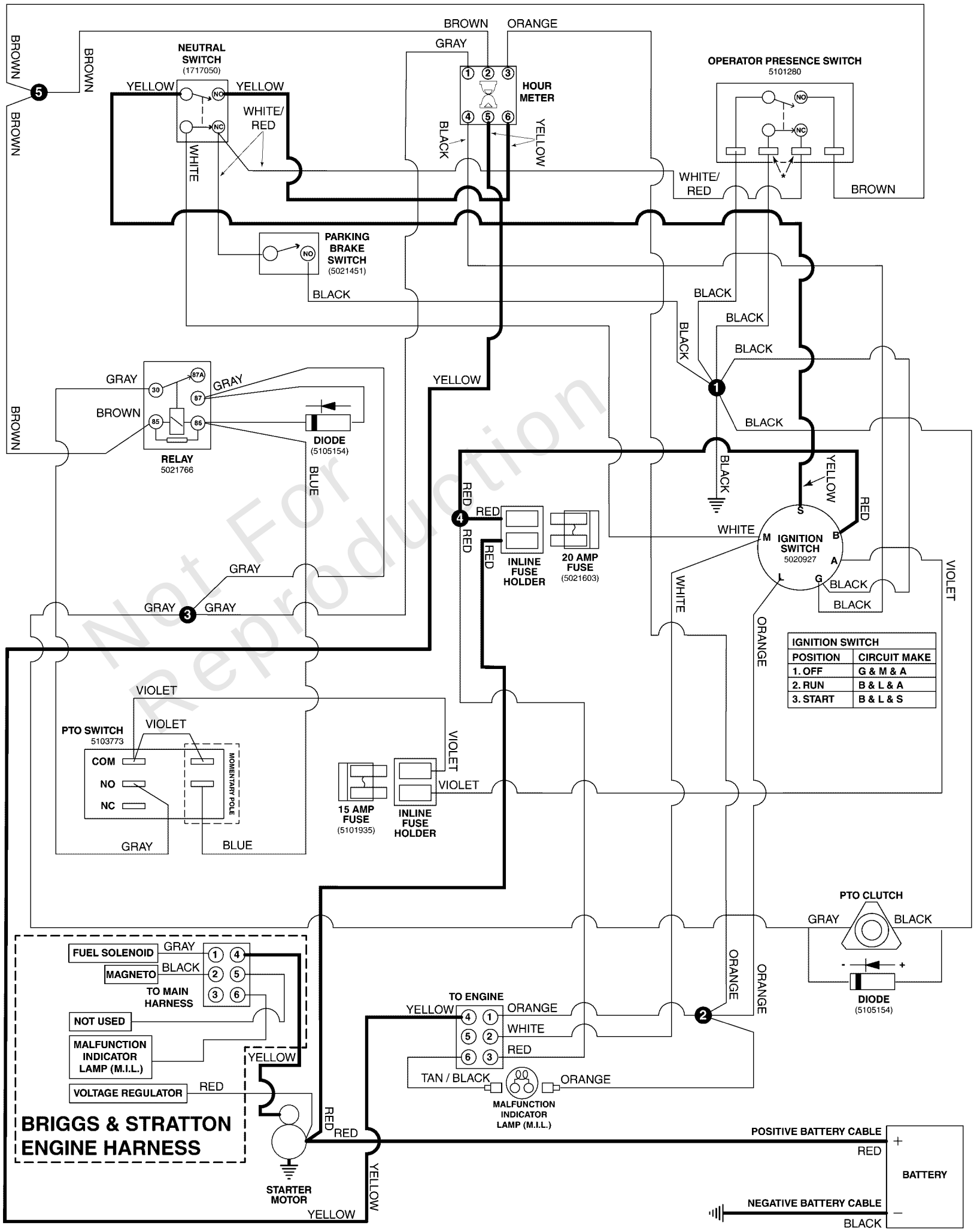


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## *Electrical Schematic - Cranking Circuit S/N: 4001694245 and above*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 5108762 | 5108762 | 1 | HARNESS, W45 WIRING W/ BRAKE SW |

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Mfg. No: 5901893

## 5108762 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49E877 EFI ENGINES

**5108762B**

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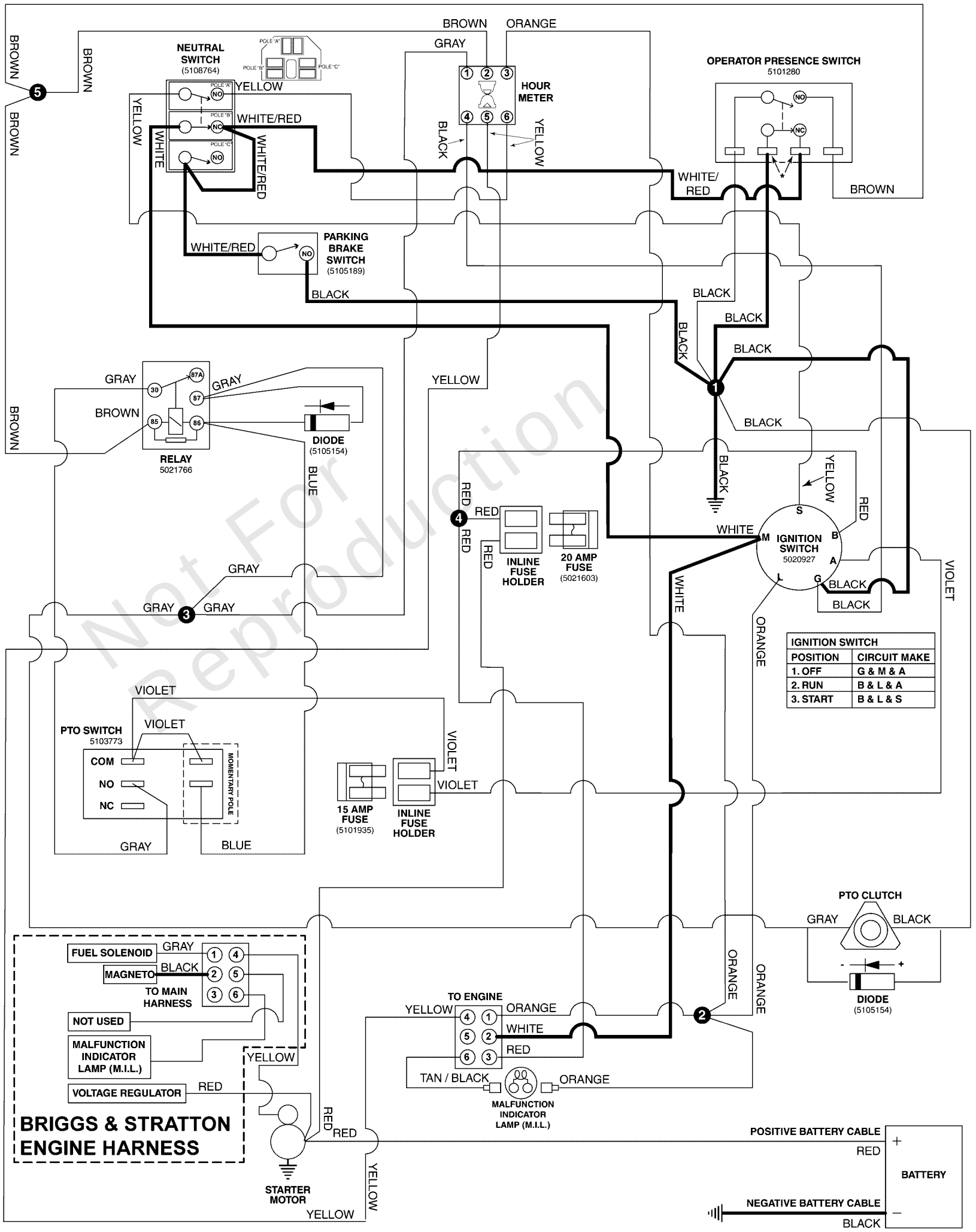


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## *Electrical Schematic - Ignition Grounding Circuit/Operator Presence S/N: 4001694244 and*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 5108762 | 5108762 | 1 | HARNESS, W45 WIRING W/ BRAKE SW |

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Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

## 5108762 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49E877 EFI ENGINES

5108762C

(If internal schematic of the switch is not shown, the image of the switch represents the back view of the connector as it is connected to the switch.)
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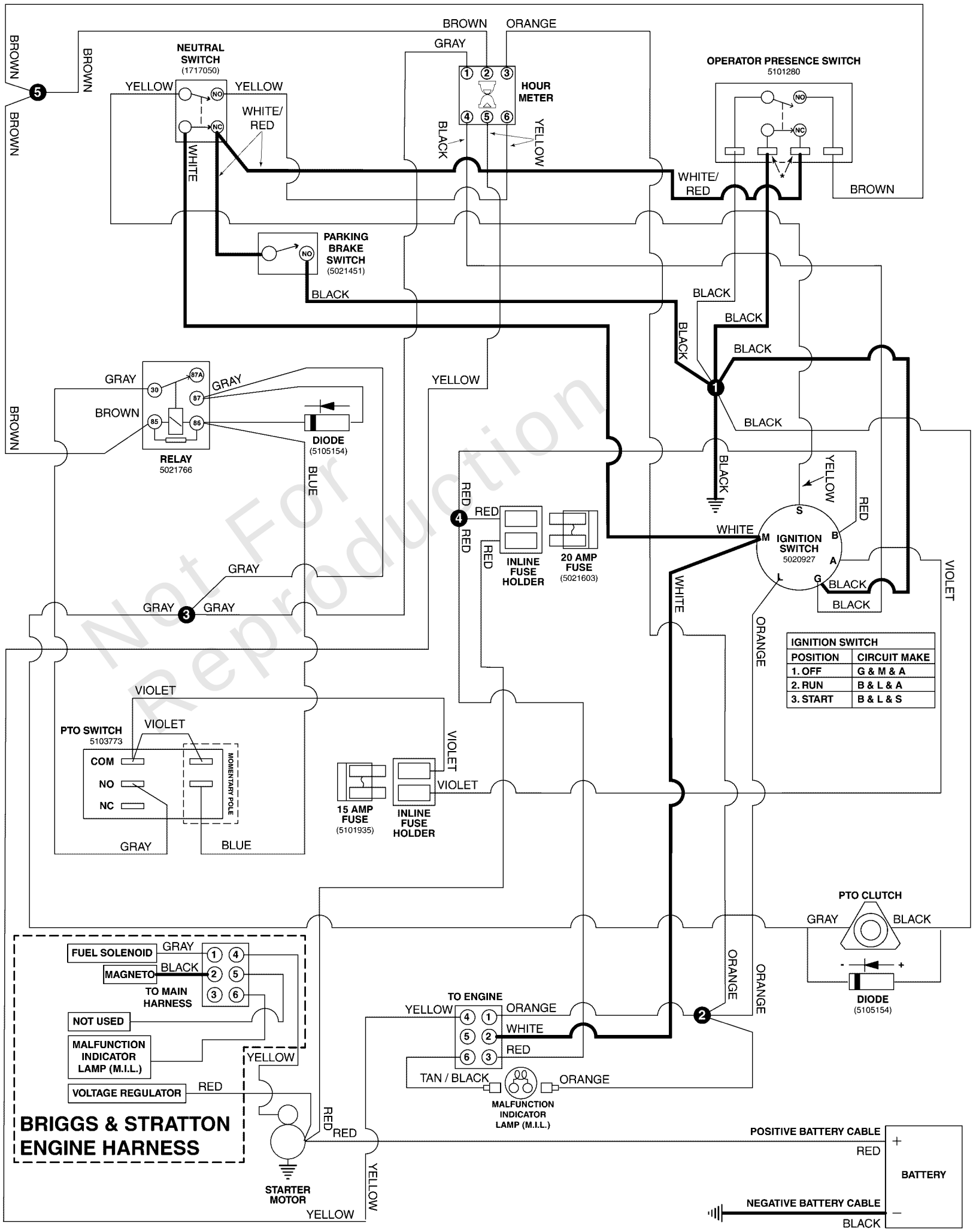


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## *Electrical Schematic - Ignition Grounding Circuit/Operator Presence S/N: 4001694245 and*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 5108762 | 5108762 | 1 | HARNESS, W45 WIRING W/ BRAKE SW |

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# *Electrical Schematic - PTO Clutch Circuit S/N: 4001694244 and below*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

## 5108762 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49E877 EFI ENGINES

**5108762B**

(If internal schematic of the switch is not shown, the image of the switch represents the back view of the connector as it is connected to the switch.)
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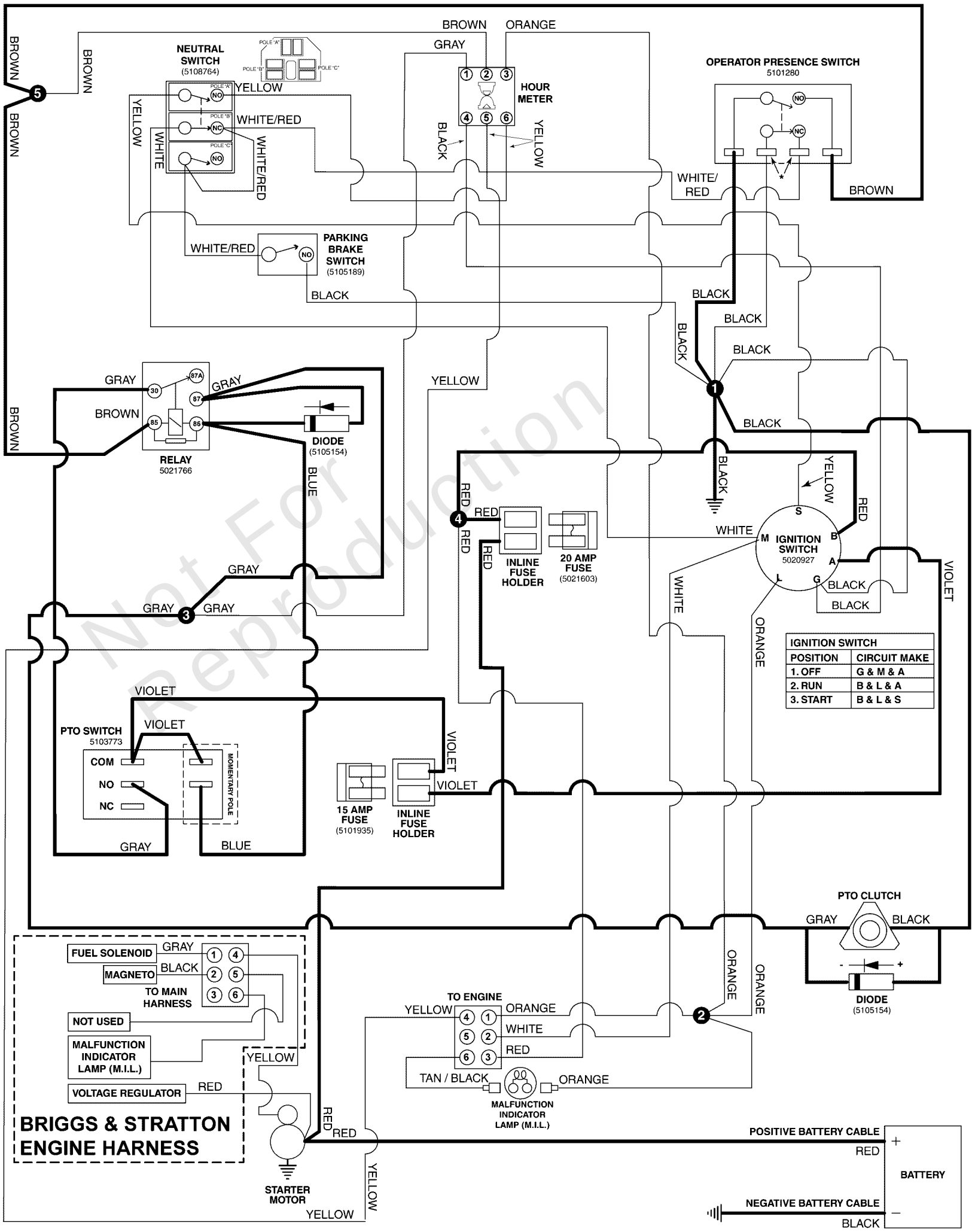


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## *Electrical Schematic - PTO Clutch Circuit S/N: 4001694244 and below*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 5108762 | 5108762 | 1 | HARNESS, W45 WIRING W/ BRAKE SW |

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# *Electrical Schematic - PTO Clutch Circuit S/N: 4001694245 and above*

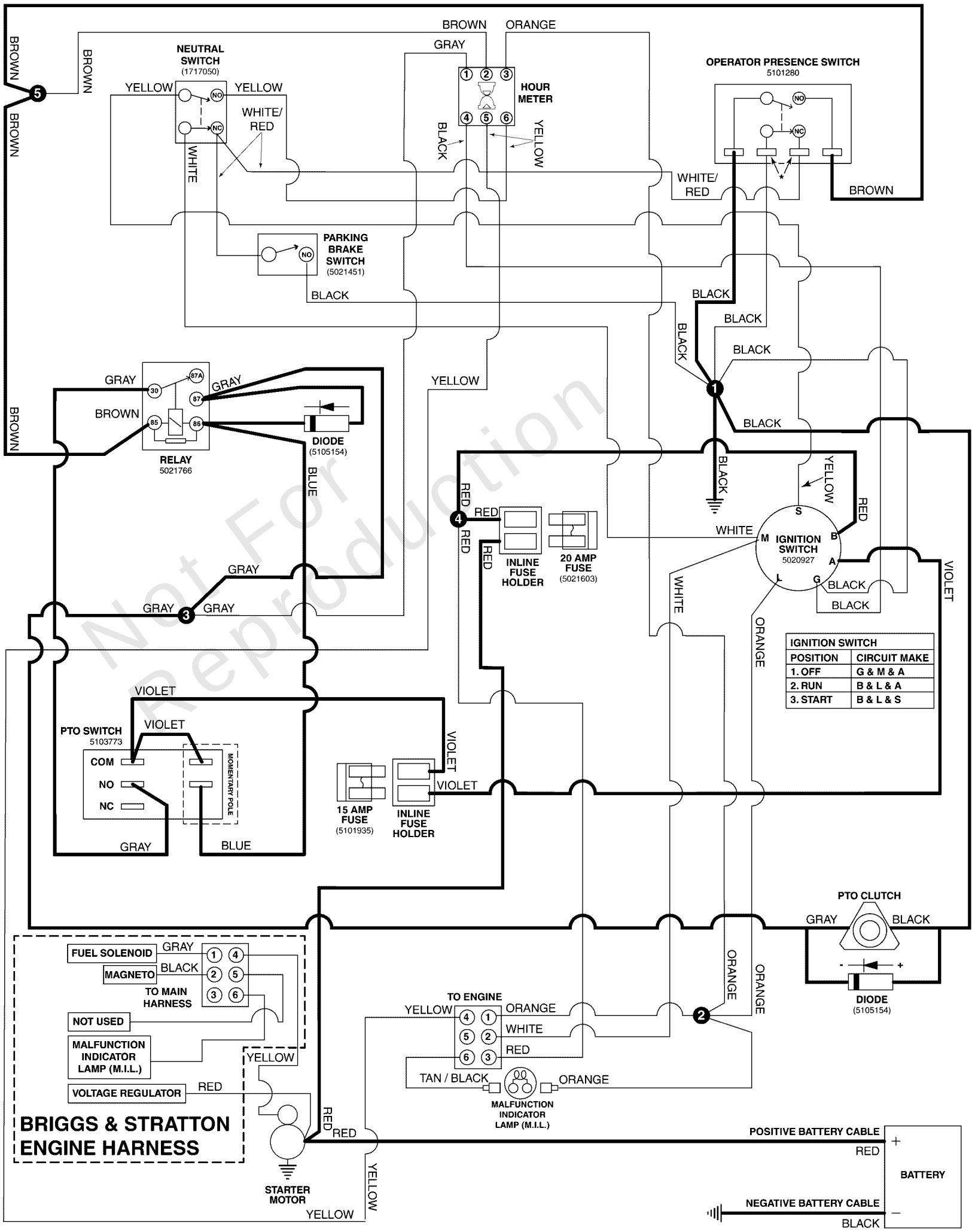
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

## 5108762 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49E877 EFI ENGINES

**5108762C**

(If internal schematic of the switch is not shown, the image of the switch represents the back view of the connector as it is connected to the switch.)
*This switch uses a "shorting" connector. When the connector is unplugged, the terminals going to the identified pole will have continuity.

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## *Electrical Schematic - PTO Clutch Circuit S/N: 4001694245 and above*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 5108762 | 5108762 | 1 | HARNESS, W45 WIRING W/ BRAKE SW |

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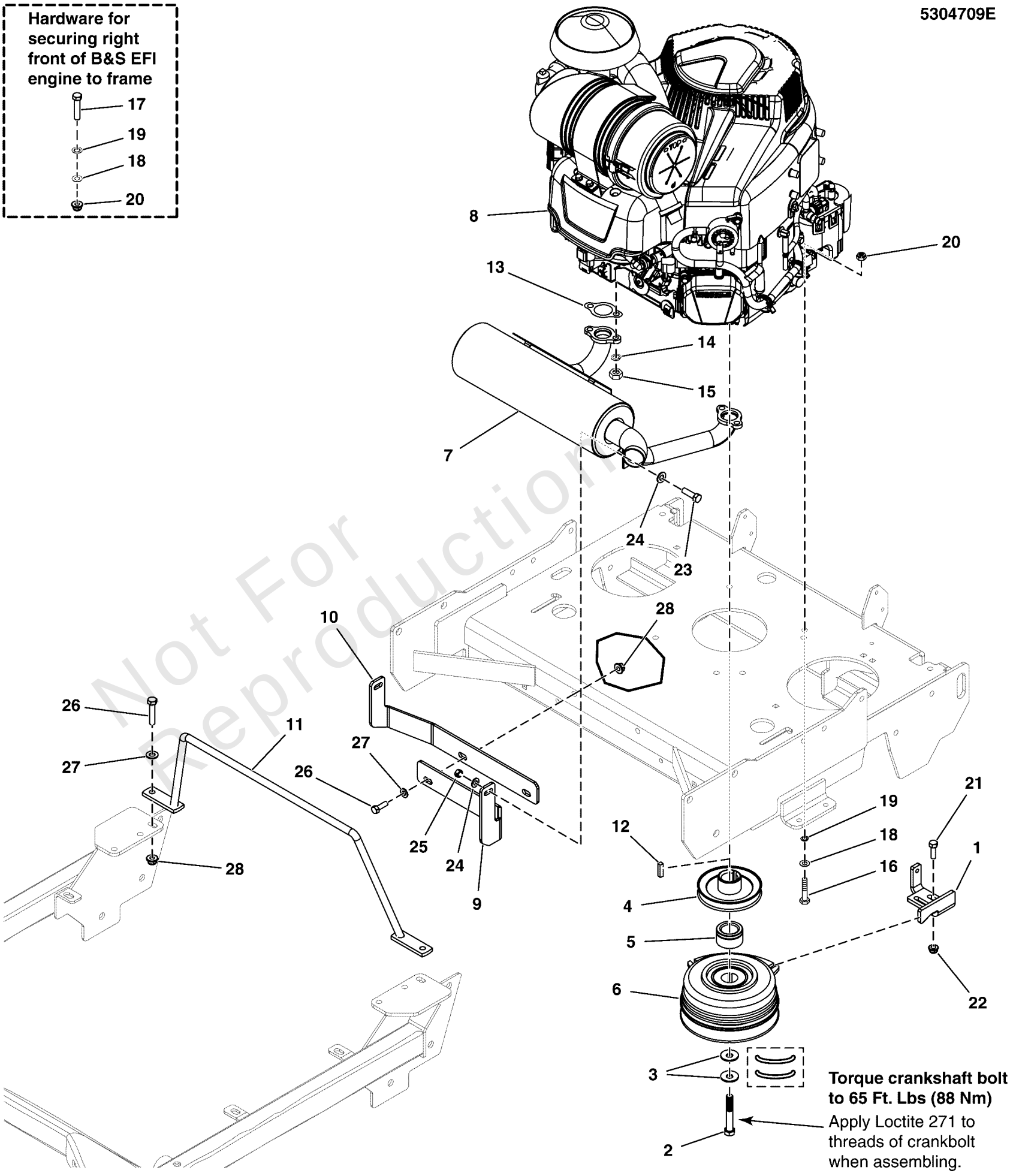
# *Engine & PTO Group - Briggs & Stratton EFI (Remote Oil Tank) S/N: 4001694244 and*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Engine & PTO Group - Briggs & Stratton EFI (Remote Oil Tank) S/N: 4001694244 and*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 1 | 5412326A | 1 | PLATE, CLUTCH ANCHOR - BLK |
| 2 | 5102865 | 1 | BOLT, CRANKSHAFT,7/16-20X2-3/4, GD8 |
| 3 | 5025585 | 2 | BELLEVILLE WASHER 1.1875 X .442 X .089 |
| 4 | 5104236 | 1 | PULLEY, CRANKSHAFT, 1.125ID X 4.50OD, OS |
| 5 | 5047033 | 1 | SPACER, 1.13 X 1.75 X 1.03, CZ |
| 6 | 5105090 | 1 | CLUTCH,WARNER,200 'lbs,1.13 |
| 7 | 5104355 | 1 | MUFFLER, 26/28, B&S VANG, EFI TWR/WALK |
| 8 | ----- | 1 | ENGINE, B&S, EFI, OIL GUARD (49E877-0008-G1) -(S/N: 4001858852 and below) |
| 8 | ----- | 1 | BRIGGS & STRATTON ENGINE, 49E877-0021-G1 -(S/N: 4001858853 and above) |
| 9 | 5415276A | 1 | PLATE, MUFFLER SUPPORT, LH, W35 - BLK |
| 10 | 5415277A | 1 | PLATE, MUFFLER SUPPORT, RH, W35 - BLK |
| 11 | 5412353AA | 1 | WELD, MUFFLER GUARD - BLK |
| 12 | 5050407X8 | 1 | KEY, 1/4 SQ X 1 |
| 13 | 273485 | 2 | GASKET, EXHAUST |
| 14 | 5023217 | 4 | WASHER, 5/16 LIGHT LOCK |
| 15 | 5025032 | 4 | NUT, 5/16-18 HEX |
| 16 | 5025025X14 | 3 | BOLT, 5/16-24 X 1-3/4, GD8, PHOS |
| 17 | 5025025X12 | 1 | BOLT, 5/16-24 X 1-1/2, GD8, PHOS |
| 18 | 5025155 | 6 | WASHER, 5/16" SAE |
| 19 | 5025188 | 4 | WASHER, 5/16 INT. TOOTH LOCK |
| 20 | 5025616 | 4 | NUT, 5/16-24, TOP LOCK FLANGE, GD8 PHOS |
| 21 | 5025145X8 | 2 | BOLT, 5/16-18 X 1, CARRIAGE |
| 22 | 5025392 | 4 | NUT, 5/16-18 HEX NYLOCK FLANGE |
| 23 | 5025011X8 | 10 | BOLT, 5/16-18 X 1 GD5 CZ |
| 24 | 5025292 | 4 | WASHER, 5/16 F436 FLAT |
| 25 | 80003675 | 2 | NUT, 5/16-18, HEX, CNTR LK,ZINC PHOS/OIL |
| 26 | 5025013X10 | 6 | BOLT, 3/8-16 X 1-1/4" GD5 CZ |
| 27 | 5025156 | 6 | WASHER, 3/8 SAE |
| 28 | 5025394 | 6 | NUT, 3/8-16 HEX NYLOCK FLANGE |

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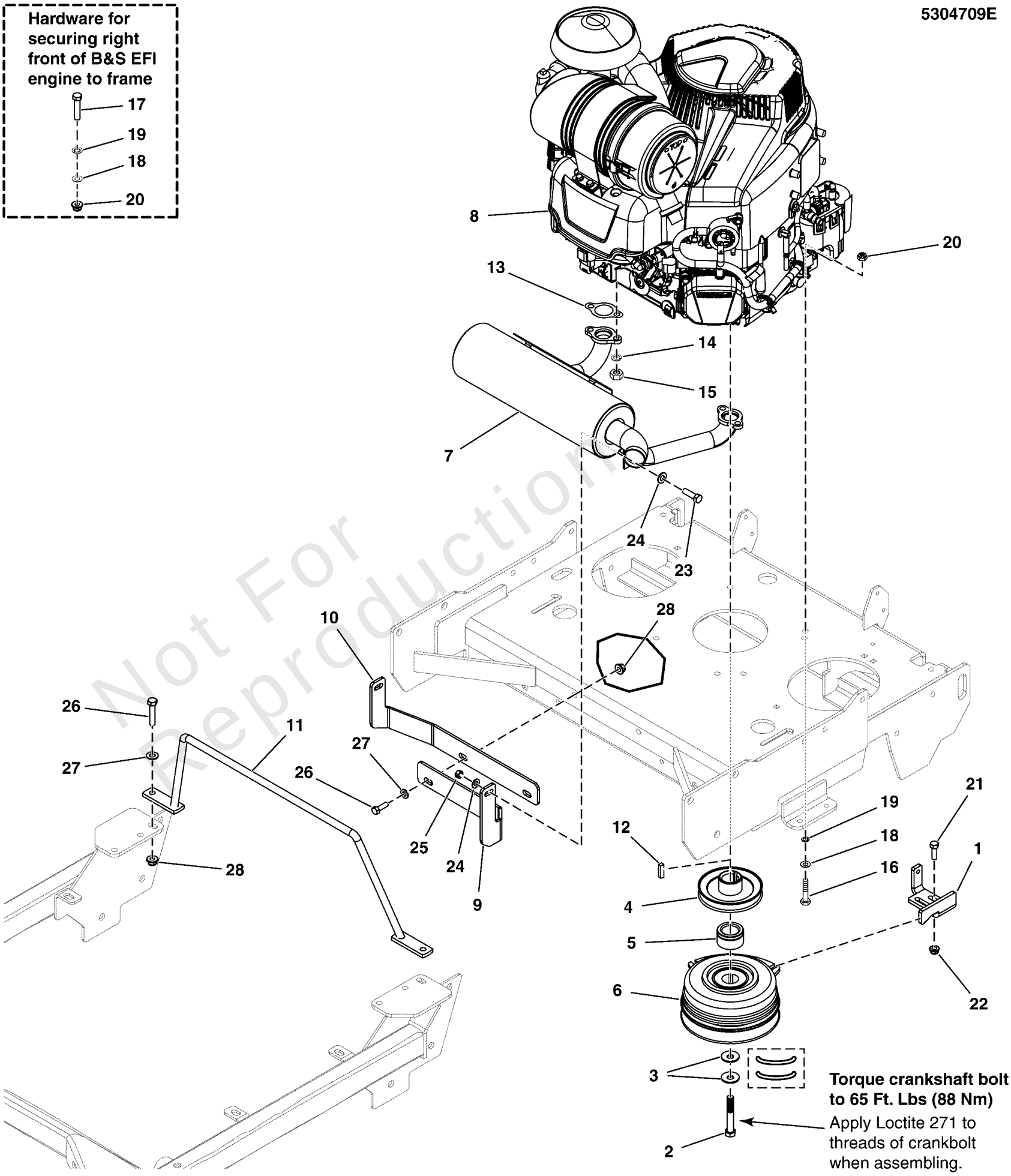
# *Engine & PTO Group - Briggs & Stratton EFI (Remote Oil Tank) S/N: 4001694245 and*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 1 | 5412326A | 1 | PLATE, CLUTCH ANCHOR - BLK |
| 2 | 5102865 | 1 | BOLT, CRANKSHAFT,7/16-20X2-3/4, GD8 |
| 3 | 5025585 | 2 | BELLEVILLE WASHER 1.1875 X .442 X .089 |
| 4 | 5104236 | 1 | PULLEY, CRANKSHAFT, 1.125ID X 4.50OD, OS |
| 5 | 5047033 | 1 | SPACER, 1.13 X 1.75 X 1.03, CZ |
| 6 | 5105090 | 1 | CLUTCH,WARNER,200 'lbs,1.13 |
| 7 | 5104355 | 1 | MUFFLER, 26/28, B&S VANG, EFI TWR/WALK |
| 8 | ----- | 1 | ENGINE, B&S, EFI, OIL GUARD (49E877-0008-G1) -(S/N: 4001858852 and below) |
| 8 | ----- | 1 | BRIGGS & STRATTON ENGINE, 49E877-0021-G1 -(S/N: 4001858853 and above) |
| 9 | 5415276A | 1 | PLATE, MUFFLER SUPPORT, LH, W35 - BLK |
| 10 | 5415277A | 1 | PLATE, MUFFLER SUPPORT, RH, W35 - BLK |
| 11 | 5421108AA | 1 | WELD, MUFFLER/02, GUARD, W45 - BLK |
| 12 | 5050407X8 | 1 | KEY, 1/4 SQ X 1 |
| 13 | 273485 | 2 | GASKET, EXHAUST |
| 14 | 5023217 | 4 | WASHER, 5/16 LIGHT LOCK |
| 15 | 5025032 | 4 | NUT, 5/16-18 HEX |
| 16 | 5025025X14 | 3 | BOLT, 5/16-24 X 1-3/4, GD8, PHOS |
| 17 | 5025025X12 | 1 | BOLT, 5/16-24 X 1-1/2, GD8, PHOS |
| 18 | 5025155 | 6 | WASHER, 5/16" SAE |
| 19 | 5025188 | 4 | WASHER, 5/16 INT. TOOTH LOCK |
| 20 | 5025616 | 4 | NUT, 5/16-24, TOP LOCK FLANGE, GD8 PHOS |
| 21 | 5025145X8 | 2 | BOLT, 5/16-18 X 1, CARRIAGE |
| 22 | 5025392 | 4 | NUT, 5/16-18 HEX NYLOCK FLANGE |
| 23 | 5025011X8 | 10 | BOLT, 5/16-18 X 1 GD5 CZ |
| 24 | 5025292 | 4 | WASHER, 5/16 F436 FLAT |
| 25 | 80003675 | 2 | NUT, 5/16-18, HEX, CNTR LK,ZINC PHOS/OIL |
| 26 | 5025013X10 | 6 | BOLT, 3/8-16 X 1-1/4" GD5 CZ |
| 27 | 5025156 | 6 | WASHER, 3/8 SAE |
| 28 | 5025394 | 6 | NUT, 3/8-16 HEX NYLOCK FLANGE |

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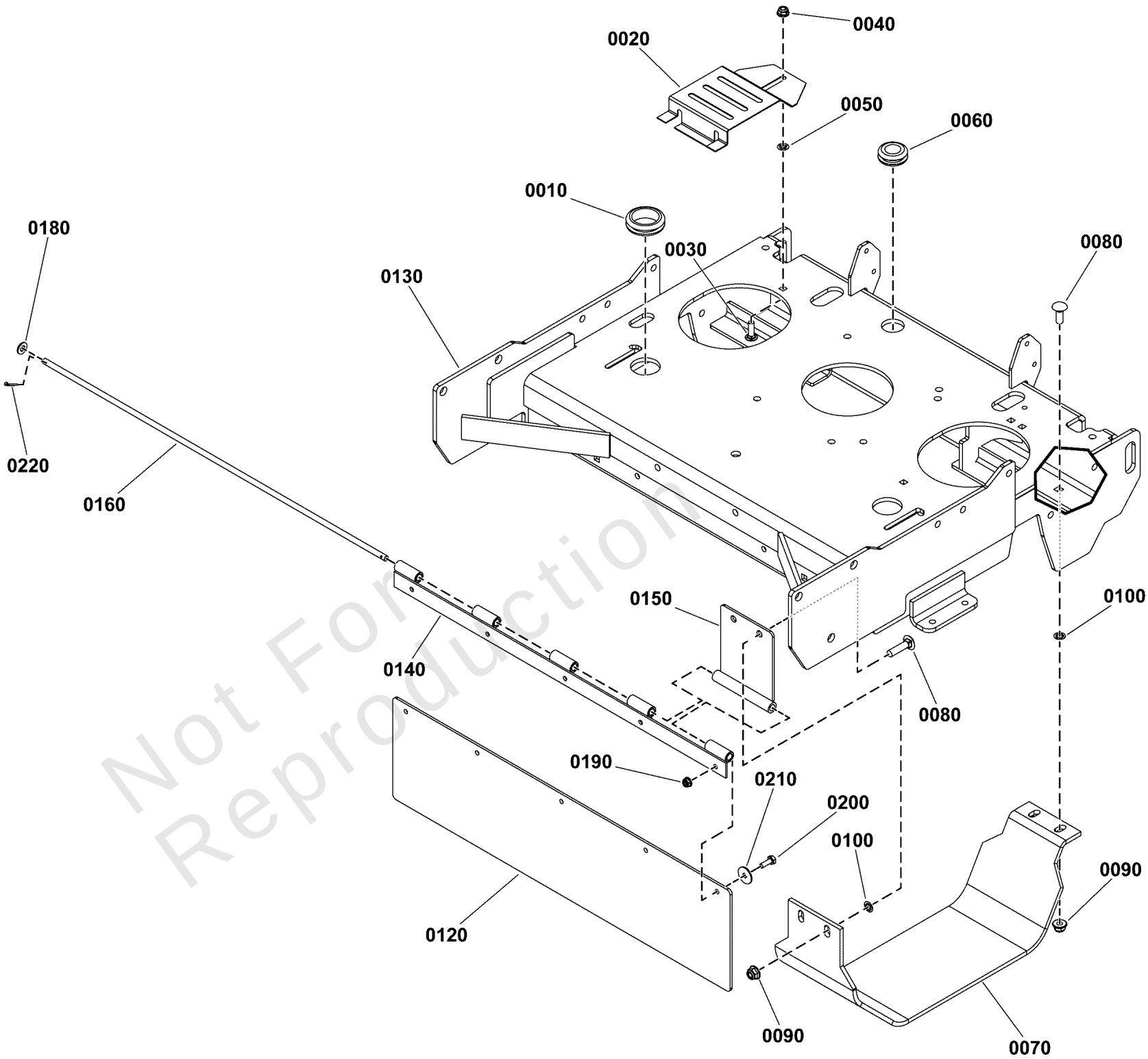
# *Engine Deck Group*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Engine Deck Group*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0010 | 5102677 | 2 | GROMMET, 1-1/2" ID FOR 1/4" METAL |
| 0020 | 5412030AA | 1 | PLATE, FAN GUARD - BLK |
| 0030 | 5025145X8 | 2 | BOLT, 5/16-18 X 1, CARRIAGE, GD5, CZ |
| 0040 | 5025392 | 2 | NUT, 5/16-18 HEX NYLOCK FLANGE NUT |
| 0050 | 5025498 | 2 | 5/16" PUSH-ON NUT RETAINER, STL, CZ |
| 0060 | 5103944 | 1 | GROMMET, 7/8"ID, 1/4" THICK STK |
| 0070 | 5420466AA | 2 | PLATE, TRANS PROTECTOR, W45 - BLK |
| 0080 | 80004497 | 4 | BOLT,3/8-16X1.000,RND HD CRRG,ZINC/CLEAR |
| 0090 | 5025394 | 8 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 0100 | 80005327 | 8 | RETAINER,3/8,PUSHNUT,ZINC/CLEAR |
| 0110 | 5025146X12 | 4 | BOLT, 3/8-16 X 1-1/2, CARRIAGE, GD5, CZ |
| 0120 | 5108724 | 1 | FLAP, RUBBER, 3/16 X 6.75 X 26.00 |
| 0130 | 5420312B | 1 | WELD, ENGINE DECK, W45 - RED |
| 0140 | 5420214AA | 1 | WELD, LOWER FLAP MOUNT - BLK |
| 0150 | 5420213AA | 2 | WELD, UPPER FLAP MOUNT - BLK |
| 0160 | 5108918 | 1 | ROD, 5/16 X 26.375, CZ |
| 0180 | 5025155 | 2 | WASHER, 5/16" SAE |
| 0190 | 5025391 | 5 | NUT, 1/4-20 Hex Nylock Flange |
| 0200 | 5025010X6 | 5 | BOLT, 1/4"-20 X 3/4" GD5 YZ |
| 0210 | 5025288 | 5 | WASHER, 1/4" Fender |
| 0220 | 80002736 | 2 | PIN, 3/32 X 0.750, COT, ZINC/CLEAR |

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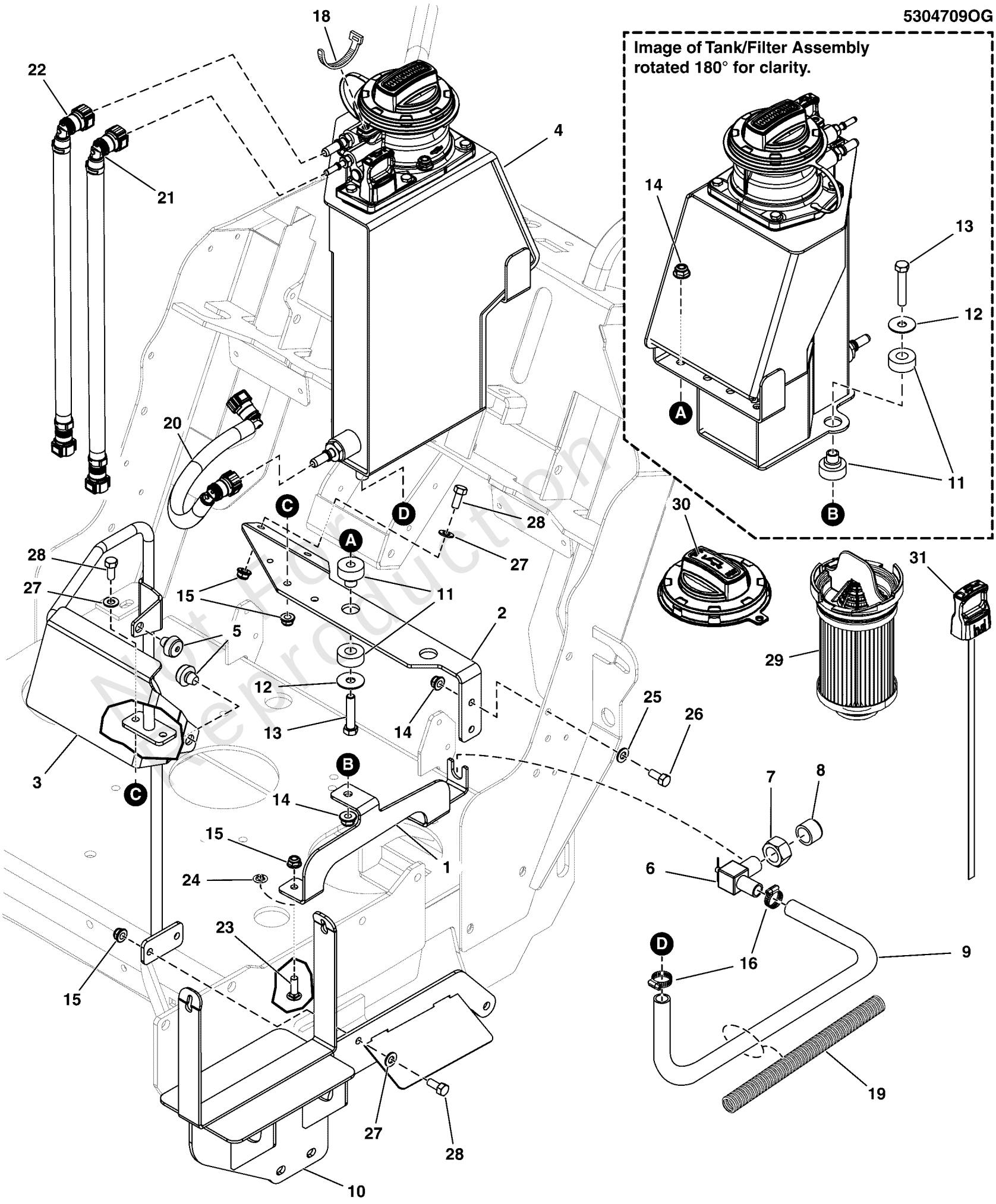
# Engine Remote Oil Tank, Hoses, & Mount Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893




**If associated part number is not listed see Authorized Briggs & Stratton dealer for service parts.**

## 15W-50 Synethetic Oil

**32 - 15W-50 Synethic Oil, Case of 12 1 QT bottles**

**33 - 15W-50 Synthetic Oil, Case of 4 5 QT bottles**

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## *Engine Remote Oil Tank, Hoses, & Mount Group*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 1 | 5420397AA | 1 | PLATE, LOWER TANK MOUNT, W45 - BLK |
| 2 | 5415327A | 1 | TANK MOUNT, TOP, W35 - BLK |
| 3 | 5415916A | 1 | WELD, TANK GUARD, W35 - BLK |
| 4 | 595945 | 1 | TANK, Oil<br>-(Refer to Note: *)(S/N: 4001858852 and below) |
| 4 | 84008062 | 1 | TANK/FILTER ASSY<br>-(Refer to Note: *)(S/N: 4001858853 and above) |
| 5 | 197546 | 2 | MNT, VBRTN, RBBR |
| 6 | 5105177 | 1 | VALVE, OIL DRAIN, M16X1.5 TO 1/2" |
| 7 | 5105318 | 1 | NUT, HEX, M16-1.5, DAPCO 4071 |
| 8 | 5105317 | 1 | OIL DRAIN CAP, OIL GUARD, DAPCO 4692 |
| 9 | 5105492 | 1 | HOSE, Formed, Oil Guard |
| 10 | ----- | 0 | Refer to: Electrical Group |
| 11 | 5023131 | 3 | MOUNT, ISO, BOTTOM, RAD 5000Z-DIESEL |
| 12 | 5025165 | 3 | WASHER, 3/8" Fender |
| 13 | 5025013X14 | 3 | BOLT, 3/8-16 X 1-3/4" GD5 CZ |
| 14 | 5025394 | 5 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 15 | 5025392 | 12 | NUT, 5/16-18 HEX NYLOCK FLANGE NUT |
| 16 | 5021392 | 2 | CLAMP, #6 HOSE, STAINLESS |
| 18 | ----- | 1 | TIE, Cable, Yellow 7.6" |
| 19 | 5050862X8 | 1 | WIRE LOOM, 3/4 ID X 8.00" LG |
| 20 | 84006650 | 1 | HOSE, OIL SUPPLY<br>-(Refer to Note: *)(S/N: 4001858852 and below) |
| 20 | 84006649 | 1 | HOSE, OIL SUPPLY<br>-(Refer to Note: *)(S/N: 4001858853 and above) |
| 21 | 595943 | 1 | HOSE, Oil Vent<br>-(Refer to Note: *) |
| 22 | 84006661 | 1 | HOSE, OIL SCAVENGE<br>-(Refer to Note: *) |
| 23 | 5025145X8 | 2 | BOLT, 5/16-18 X 1, CARRIAGE, GD5, CZ |
| 24 | 5025498 | 2 | 5/16" PUSH-ON NUT RETAINER, STL, CZ |
| 25 | 5025156 | 2 | WASHER, 3/8 SAE |
| 26 | 5025013X10 | 2 | BOLT, 3/8-16 X 1-1/4" GD5 CZ |
| 27 | 5025155 | 12 | WASHER, 5/16" SAE |
| 28 | 5025011X8 | 10 | BOLT, 5/16-18 X 1"  GRD5 YZ |
| 29 | 84007094 | 1 | FILTER, OIL |
| 30 | 595931 | 1 | CAP, Oil Fill<br>-(Yellow cap) |
| 30 | 84008058 | 1 | CAP, Oil Fill<br>-(Black cap) |
| 31 | 595934 | 1 | DIPSTICK |
| 32 | 100169 | 1 | OIL-1QT VANGUARD (CASE)<br>-(Case of twelve 1 QT bottles) |
| 33 | 100170 | 1 | OIL-5QT VANGUARD (CASE)<br>-(Case of four 5 QT bottles) |

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**Footnotes:**

Note: *Order Oil Guard replacement parts from your Authorized Briggs & Stratton Engine Service Provider

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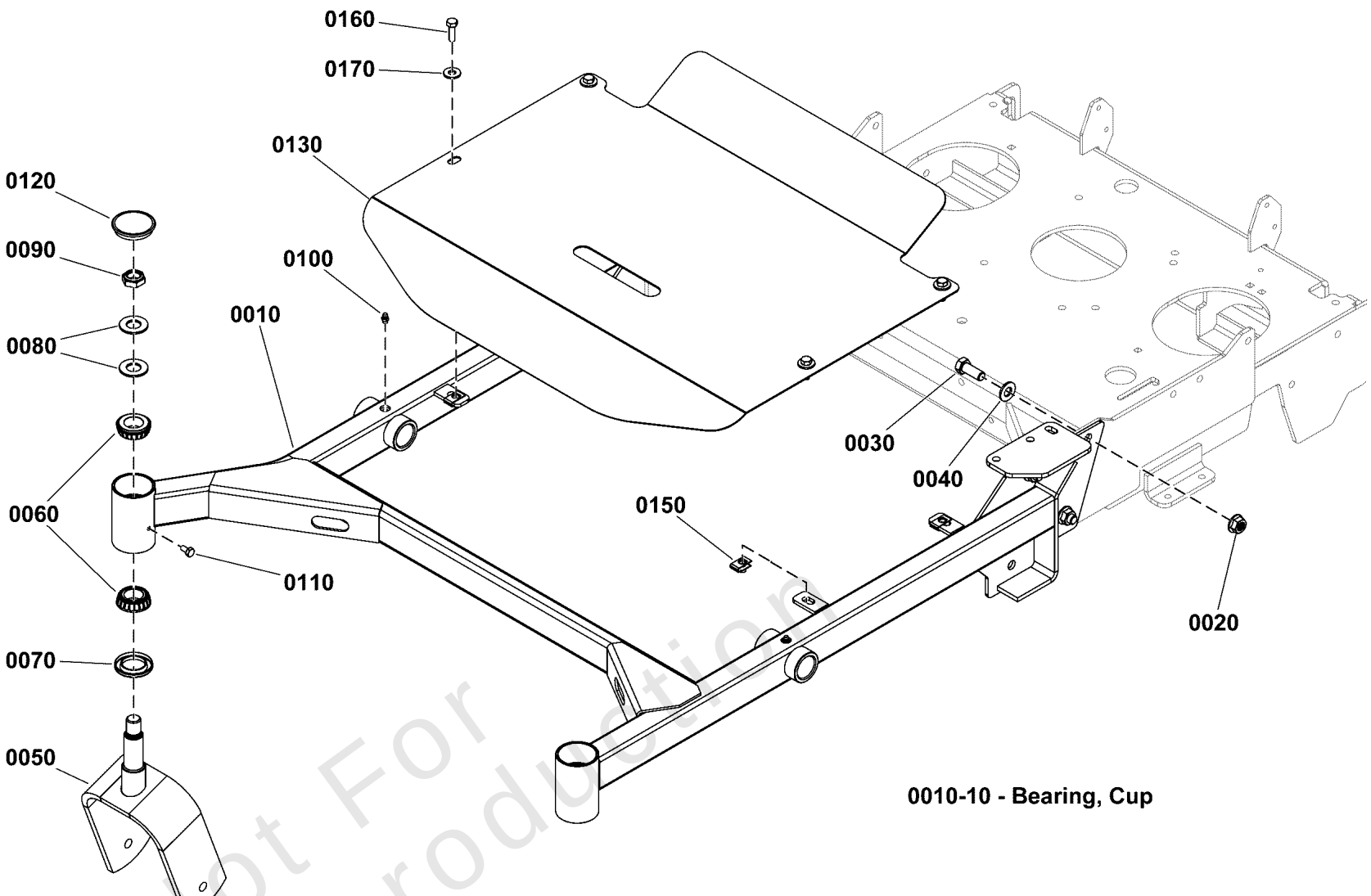
# *Front Frame Group*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Front Frame Group*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0010 | 5422126B | 1 | WELD, FRONT FRAME, W45, 478/52 - RED |
| 0010-10 | 5020883 | 2 | CUP, BEARING (SV)<br>-(SV) |
| 0020 | 5025396 | 6 | NUT, Hex Flange, Nylock, 1/2-13 |
| 0030 | 5025017X10 | 6 | BOLT, 1/2-13 X 1-1/4 GD5 CZ |
| 0040 | 5025158 | 6 | WASHER, 1/2 SAE |
| 0050 | 5401759B | 2 | WELD., FRONT CASTER YOKES - RED |
| 0060 | 5020884 | 4 | BEARING, TAPERED ROLLER, 1" |
| 0070 | 5021072 | 2 | SEAL, GREASE |
| 0080 | 5025449 | 4 | WASHER, BELLEVILLE - 1.500 X .755 |
| 0090 | 5025448 | 2 | NUT, 3/4-16, HEX JAM NYLON LOCK |
| 0100 | 5020095 | 2 | GREASE FITTING, 1/4-28 Straight |
| 0110 | 5025457 | 2 | BOLT, 1/4-28 X 1/2, GD5 YZ |
| 0120 | 5109845 | 2 | CAP, GREASE, LOW PROFILE |
| 0130 | 5420467B | 1 | PLATE, FRONT GUARD, W45 - RED |
| 0150 | 5022308 | 4 | BODY CLIP, 5/16-18-7GA MATERIAL |
| 0160 | 5025011X8 | 4 | BOLT, 5/16-18 X 1" GRD5 YZ |
| 0170 | 5025337 | 4 | WASHER, 5/16" USS |

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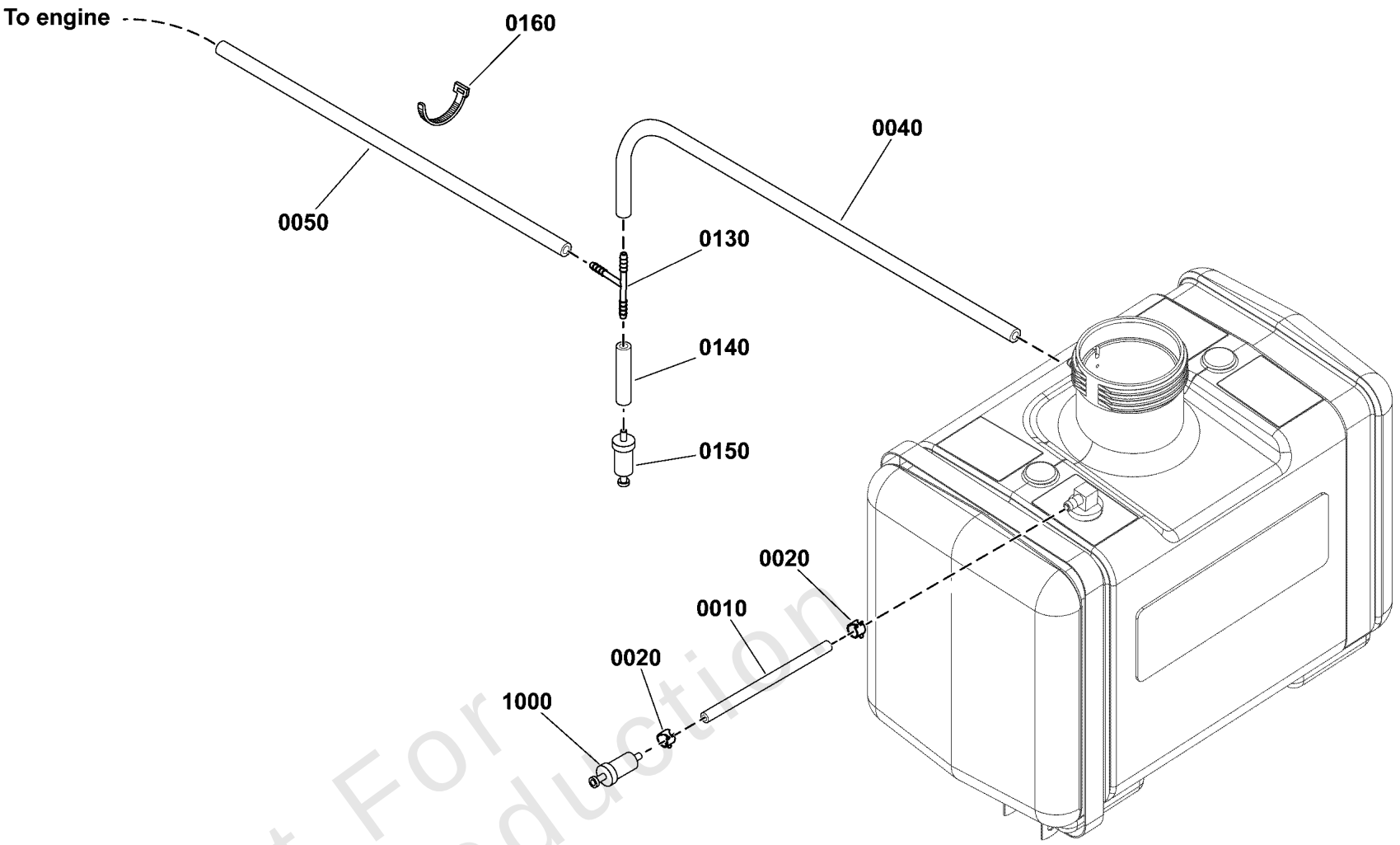
# *Fuel Supply Hose and Evap Group (No Canister)*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Fuel Supply Hose and Evap Group (No Canister)*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0010 | 5050831X29P5 | 1 | HOSE, 1/4" FUEL, 29.50" |
| 0020 | 93807 | 2 | CLAMP, Hose |
| 0040 | 7700552X15P5 | 1 | HOSE, VAPOR, 5MM ID, 15.50 LG |
| 0050 | 7700552X20P5 | 1 | HOSE, VAPOR, 5MM ID, 20.50 LG |
| 0130 | 5103062 | 1 | FITTING, 3/16" TEE, BARB TYPE, HDPE |
| 0140 | 7700552X4P5 | 1 | HOSE, VAPOR, 5MM ID, 4.50 LG |
| 0150 | 80025019 | 1 | FILTER, FUEL |
| 0160 | 5021030 | 2 | TIE, SELF-LOCKING, 6" |
| 1000 | 5021178X3 | 1 | FUEL FILTER (SV)<br>-(SV) |

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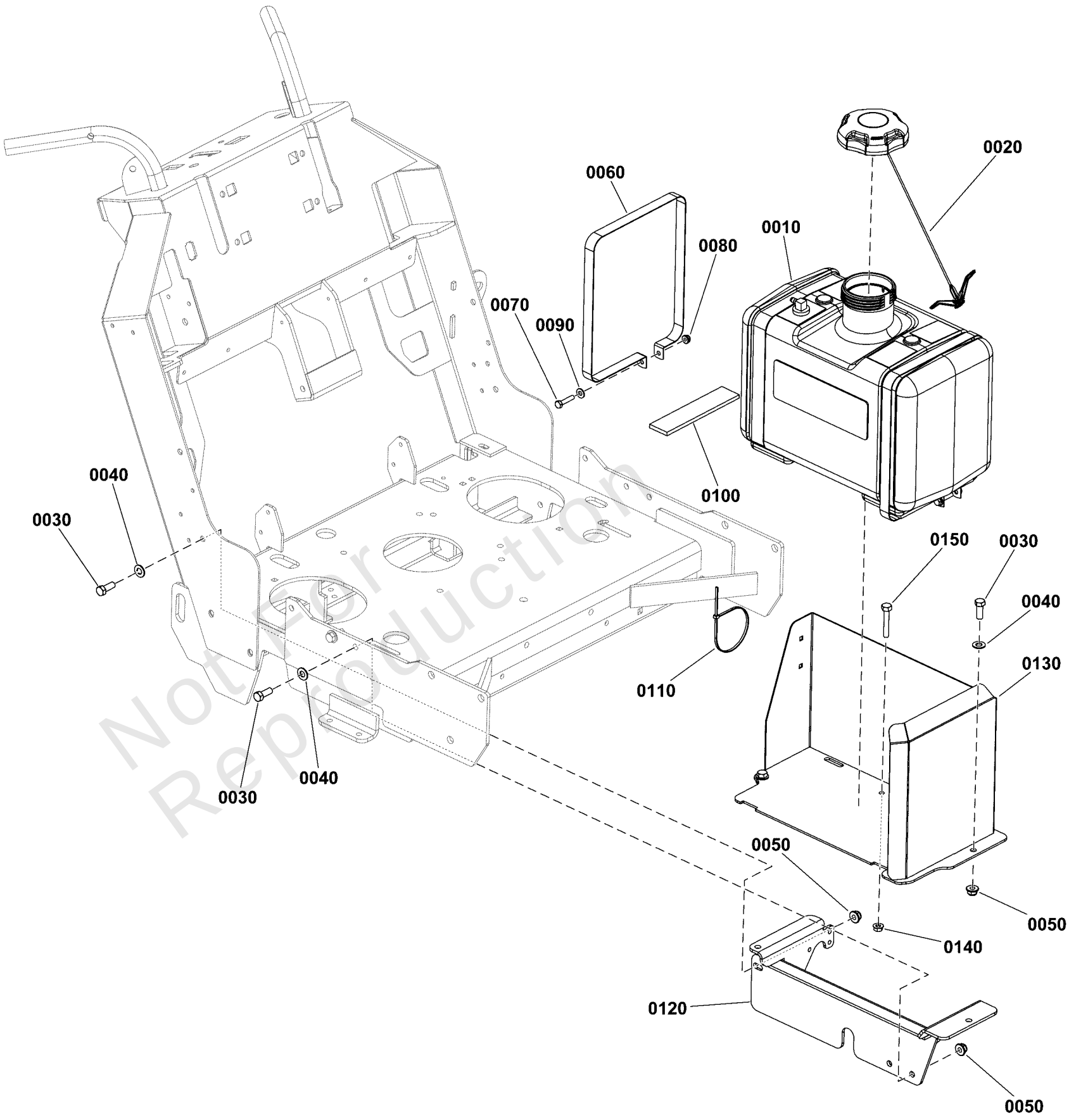
# *Fuel Tank and Mount Group*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Fuel Tank and Mount Group*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0010 | 5102833 | 1 | TANK, 4.625 GAL, W DROP TUBE/VENT |
| 0010-10 | 5102833X1 | 1 | GROMMET<br>-(Grommet for fuel tank 5102833) |
| 0020 | 5108752 | 1 | FUEL CAP, 3.5", MANAGED VENT OUT, 12" RT |
| 0030 | 5025013X8 | 5 | BOLT, 3/8-16 X 1" GD5 CZ |
| 0040 | 5025156 | 5 | WASHER, 3/8 SAE |
| 0050 | 5025394 | 5 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 0060 | 5403445AA | 2 | STRAP, FUEL TANK - SNP PRO DDS - BLK |
| 0070 | 5025010X10 | 2 | BOLT, 1/4-20 X 1-1/4 GD5 CZ |
| 0080 | 5025391 | 2 | NUT, 1/4-20 Hex Nylock Flange |
| 0090 | 5025154 | 2 | WASHER, 1/4 SAE |
| 0100 | 5100810 | 2 | PAD, RUBBER MOUNT |
| 0110 | 5021029 | 1 | TIE, SELF-LOCKING, 12" |
| 0120 | 5413950AA | 1 | WELD, FUEL TANK, MOUNT, LOWER, W35 - BLK |
| 0130 | 5420158AA | 1 | WELD, TANK MOUNT, W45 - BLK |
| 0140 | 5025127 | 1 | NUT, 5/16-18 HEX SERRATED FLANGE (SMALL) |
| 0150 | 5025055X16 | 1 | BOLT, 5/16-18 X 2 GD5 TFL, CZ |

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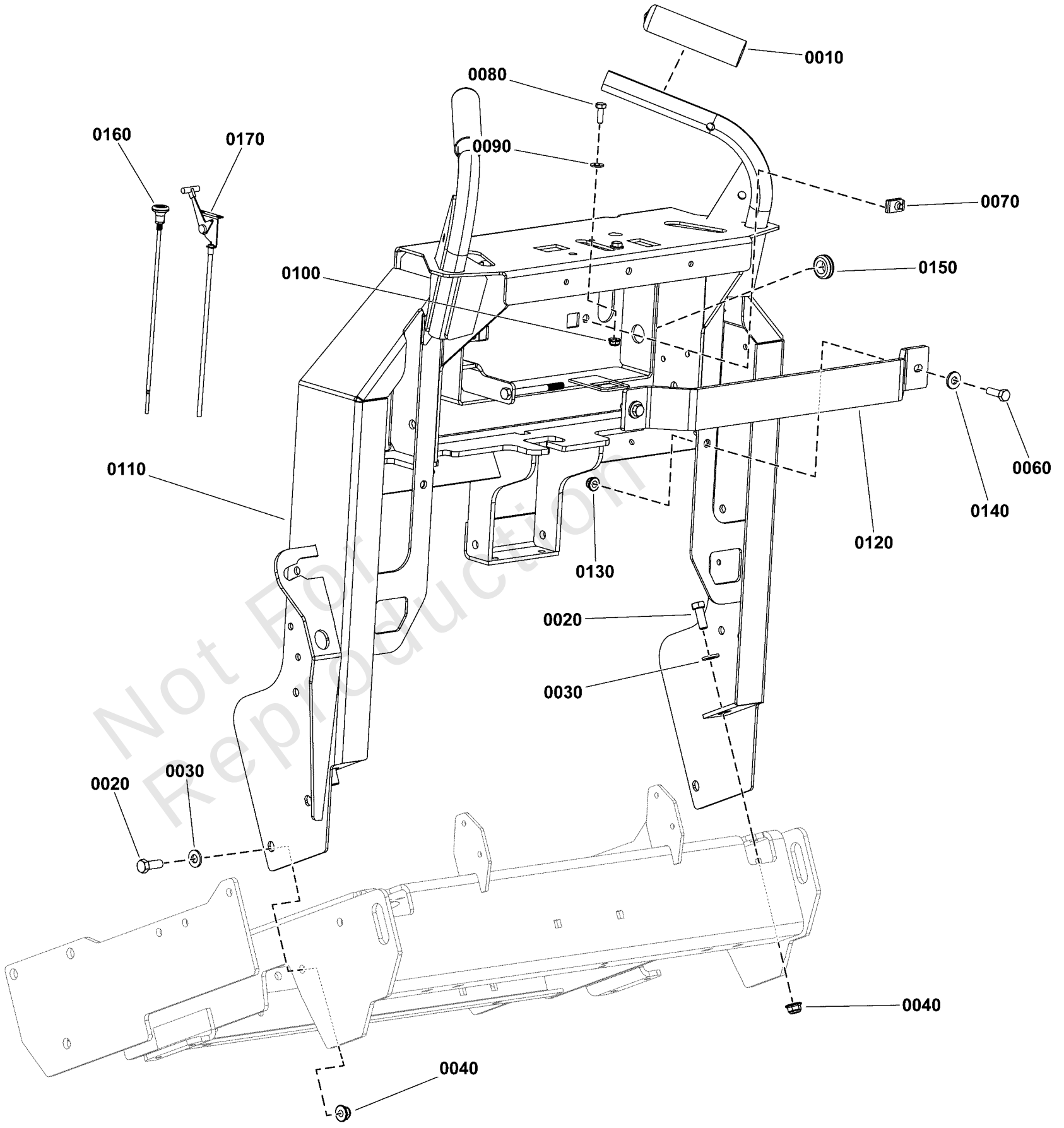
# *Handle Bar Group S/N: 4001694244 and below*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Handle Bar Group S/N: 4001694244 and below*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0010 | 5104659 | 2 | GRIP, FOAM, .940" X 4.62" X .187" |
| 0020 | 5025013X8 | 6 | BOLT, 3/8-16 X 1" GD5 CZ |
| 0030 | 5025293 | 6 | WASHER, 3/8" GR. 9 FLAT |
| 0040 | 5025394 | 6 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 0060 | 5025011X8 | 4 | BOLT, 5/16-18 X 1"  GRD5 YZ |
| 0070 | 5022665 | 4 | BODY CLIP, 1/4-20 X 1/2" DEEP<br>-(For securing the oil cooler mount.) |
| 0080 | 5025010X6 | 2 | BOLT, 1/4"-20 X 3/4" GD5 YZ<br>-(For securing the throttle control.) |
| 0090 | 5025154 | 2 | WASHER, 1/4 SAE<br>-(For securing the throttle control.) |
| 0100 | 5025391 | 2 | NUT, 1/4-20 Hex Nylock Flange<br>-(For securing the throttle control.) |
| 0110 | 5420443B | 1 | WELD, HANDLEBAR, W45 CC - RED |
| 0120 | 5419312AA | 1 | BAR, SULKY GUARD, W25-W35 - BLK |
| 0130 | 5025392 | 2 | NUT, 5/16-18 HEX NYLOCK FLANGE NUT |
| 0140 | 5025292 | 2 | WASHER, 5/16 GRADE 9, FLAT |
| 0150 | 5102542 | 1 | GROMMET, 5/8 ID X 1/8 MATERIAL |
| 0160 | 5100184 | 1 | CABLE, CHOKE CONTROL, 43.5"<br>-(Kawasaki powered models only) |
| 0170 | 5104657 | 1 | CABLE, THROTTLE, 43" DETENTED |

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# *Handle Bar Group S/N: 4001694245 and above*

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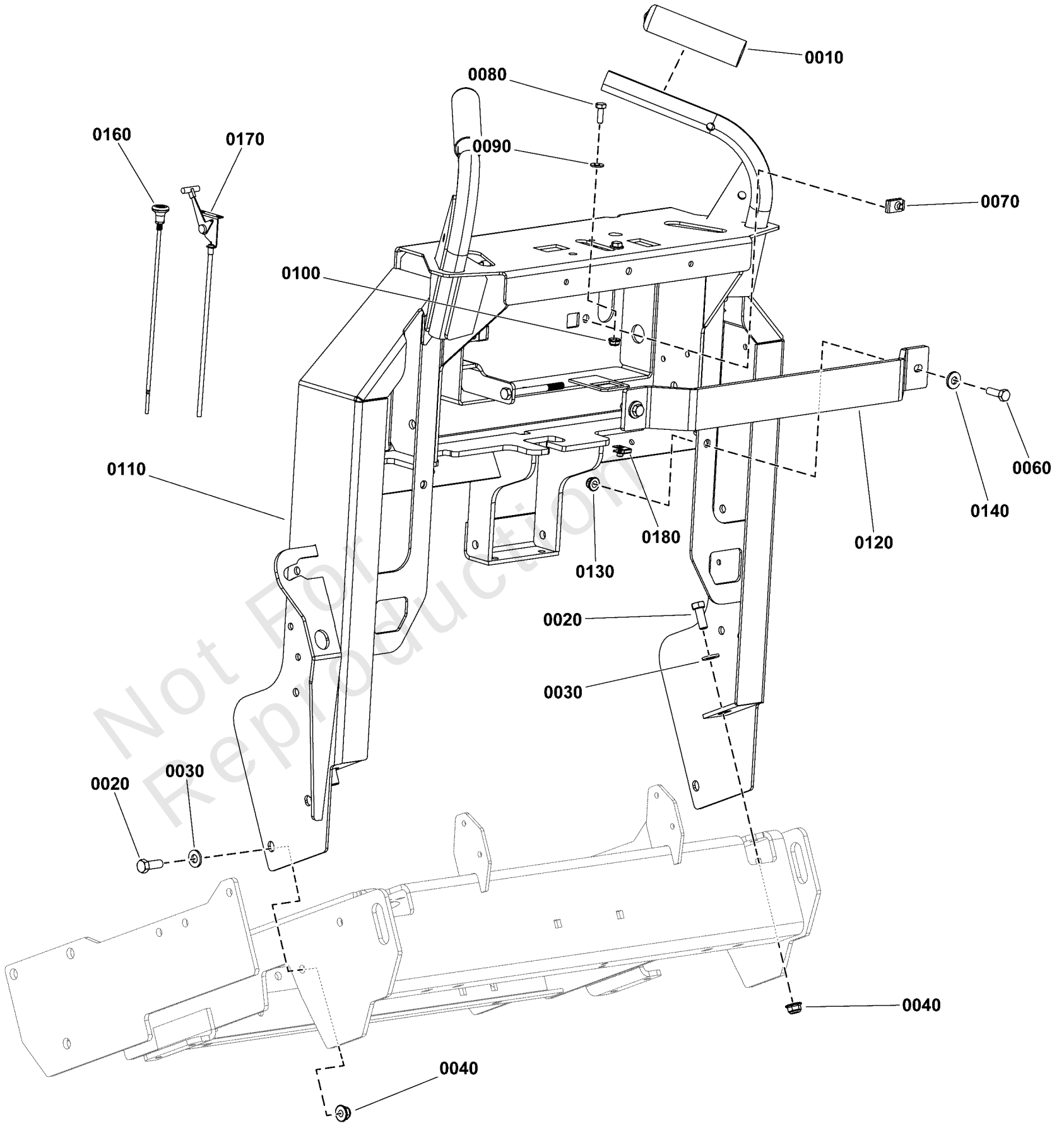
Mfg. No: 5901893

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## *Handle Bar Group S/N: 4001694245 and above*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0010 | 5104659 | 2 | GRIP, FOAM, .940" X 4.62" X .187" |
| 0020 | 5025013X8 | 6 | BOLT, 3/8-16 X 1" GD5 CZ |
| 0030 | 5025293 | 6 | WASHER, 3/8" GR. 9 FLAT |
| 0040 | 5025394 | 6 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 0060 | 5025011X8 | 4 | BOLT, 5/16-18 X 1"  GRD5 YZ |
| 0070 | 5022665 | 4 | BODY CLIP, 1/4-20 X 1/2" DEEP<br>-(For securing the oil cooler mount.) |
| 0080 | 5025010X6 | 2 | BOLT, 1/4"-20 X 3/4" GD5 YZ<br>-(For securing the throttle control.) |
| 0090 | 5025154 | 2 | WASHER, 1/4 SAE<br>-(For securing the throttle control.) |
| 0100 | 5025391 | 2 | NUT, 1/4-20 Hex Nylock Flange<br>-(For securing the throttle control.) |
| 0110 | 5421015B | 1 | WELD, HANDLE BAR, CC, W45 - RED |
| 0120 | 5419312AA | 1 | BAR, SULKY GUARD, W25-W35 - BLK |
| 0130 | 5025392 | 2 | NUT, 5/16-18 HEX NYLOCK FLANGE NUT |
| 0140 | 5025292 | 2 | WASHER, 5/16 GRADE 9, FLAT |
| 0160 | 5100184 | 1 | CABLE, CHOKE CONTROL, 43.5"<br>-(Kawasaki powered models only) |
| 0170 | 5104657 | 1 | CABLE, THROTTLE, 43" DETENTED |
| 0180 | 5022649 | 1 | BODY CLIP, 3/8-16 X .688" DEEP |

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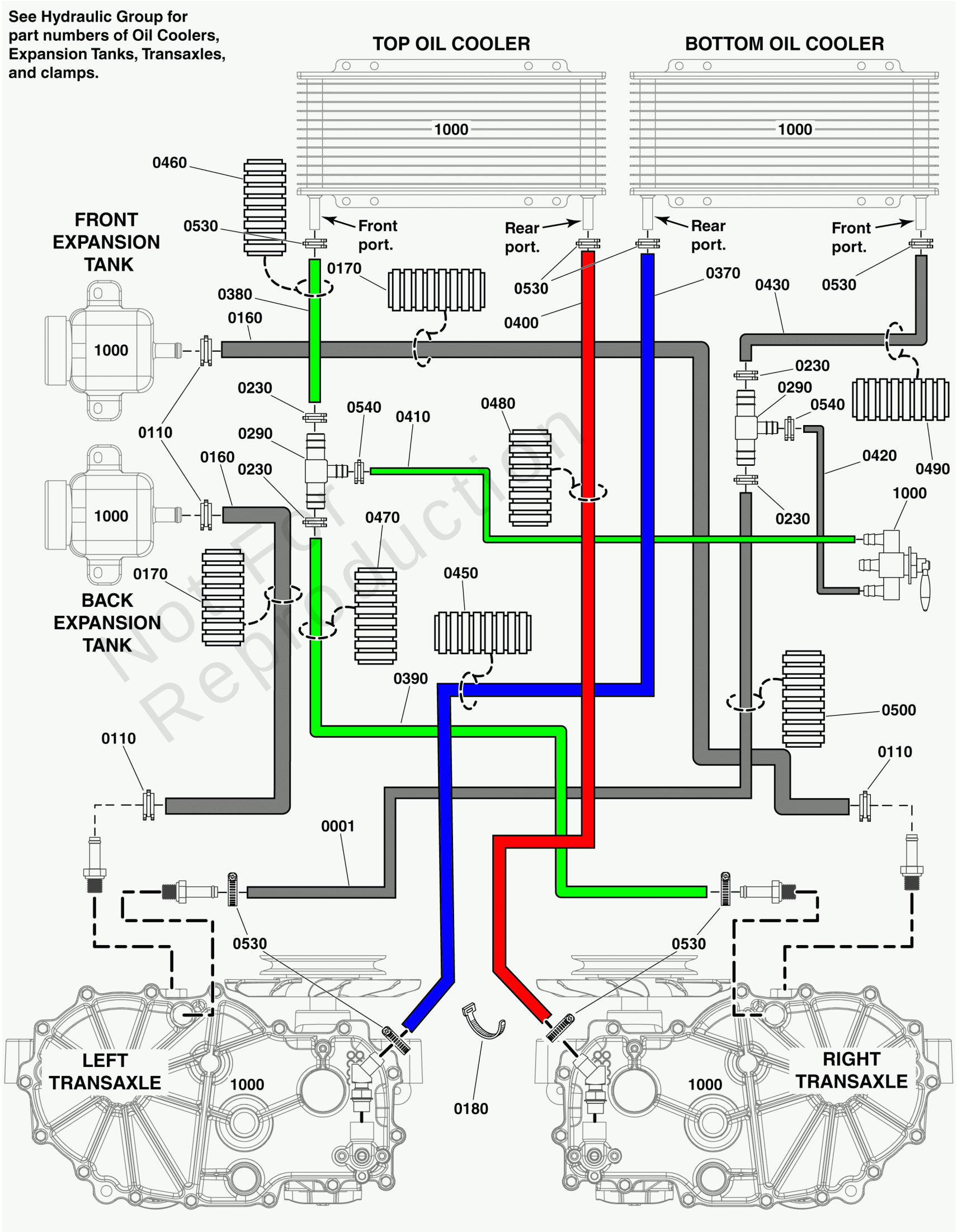
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Hydraulic Group - Hoses and Loom*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0001 | 5050860X32 | 1 | HOSE, 3/8" PUSH-LOCK, 32.00" |
| 0110 | 5025474 | 4 | CLAMP, HOSE, .75 FREE DIA. |
| 0160 | 5050857X24 | 2 | HOSE, 1/2" PUSH-ON, 24.00" |
| 0170 | 5050862X20 | 2 | WIRE LOOM, 3/4 ID X 20 IN |
| 0180 | 5100772 | 8 | TIE, SELF-LOCKING, 15" |
| 0230 | 5023268 | 4 | CLAMP, Hose |
| 0290 | 5108746 | 2 | FITTING, TEE, HOSE, 3/8-3/8-1/4 |
| 0370 | 5108540X42 | 1 | HOSE, 3/8"" PUSH-LOCK, BLUE 42.00 |
| 0380 | 5108541X15P5 | 1 | HOSE, 3/8" PUSH-LOCK, GREEN 15.50" |
| 0390 | 5108541X23P5 | 1 | HOSE, 3/8" PUSH-LOCK, GREEN 23.50" |
| 0400 | 5108539X34P5 | 1 | HOSE, 3/8" PUSH-LOCK, RED 34.50 |
| 0410 | 5108747X9 | 1 | HOSE, 1/4" PUSH-LOCK, GREEN, 9.00" |
| 0420 | 5050869X9 | 1 | HOSE, 1/4" PUSH-LOCK, 9.00" |
| 0430 | 5050860X14P5 | 1 | HOSE, 3/8 PUSH LOCK, 14.50" |
| 0450 | 5050861X40 | 1 | WIRE LOOM, 5/8 ID X 40 IN |
| 0460 | 5050861X15 | 1 | WIRE LOOM, 5/8" ID. 15" LONG |
| 0470 | 5050861X22 | 1 | WIRE LOOM, 5/8 ID X 22 IN |
| 0480 | 5050861X32 | 1 | WIRE LOOM  5/8 ID X 32 IN |
| 0490 | 5050861X13 | 1 | WIRE LOOM  5/8 ID X 13 IN |
| 0500 | 5050861X30 | 1 | WIRE LOOM  5/8 ID X 30 IN |
| 0530 | 5108736 | 8 | CLAMP, HOSE, 5/8", FI TYPE |
| 0540 | 93807 | 4 | CLAMP, Hose |
| 1000 | ----- | 1 | Refer to: Hydraulic Group |

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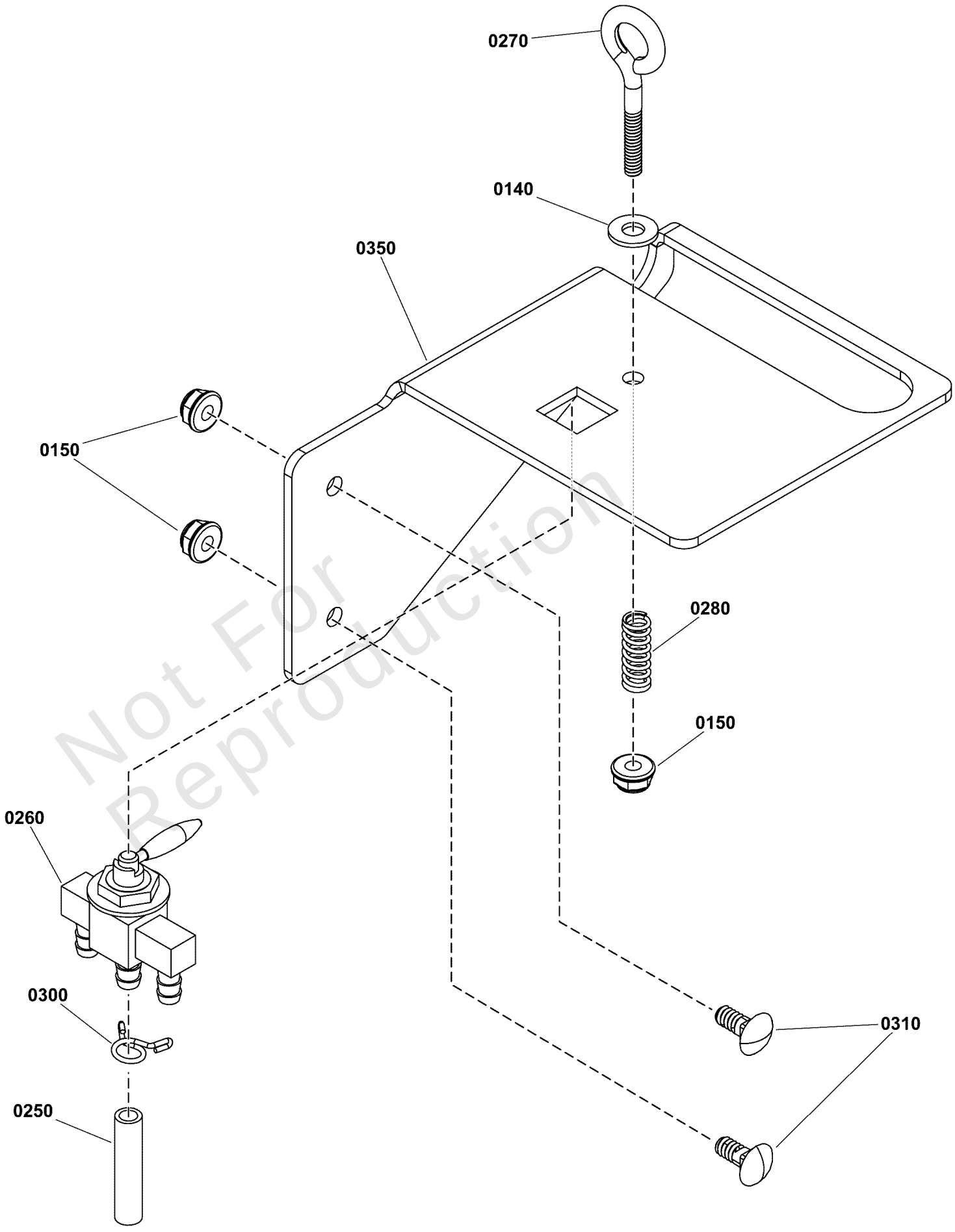
# *Hydraulic Group - Transaxle Selector Valve*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Hydraulic Group - Transaxle Selector Valve*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0140 | 5025154 | 1 | WASHER, 1/4 SAE |
| 0150 | 5025391 | 3 | NUT, 1/4-20 Hex Nylock Flange |
| 0250 | 847378 | 1 | CAP, DUST |
| 0260 | 5023358 | 1 | VALVE, FUEL STRAIGHT, OUTLET |
| 0270 | 5022205 | 1 | EYE BOLT, 1/4-20 X 2.5, 1THRD, .5EYE,CZ |
| 0280 | 5108754 | 1 | SPRING, COMP, .261 ID X .5 OD X 1" LG |
| 0300 | 5108765 | 1 | CLAMP, HOSE, VALVE BOOT |
| 0310 | 1960252 | 2 | BOLT-RD HD SH SQ NK 1/4-20X0. 625 G5 BLK |
| 0350 | 5420417AA | 1 | PLATE, PURGE VALVE MOUNT - BLK |

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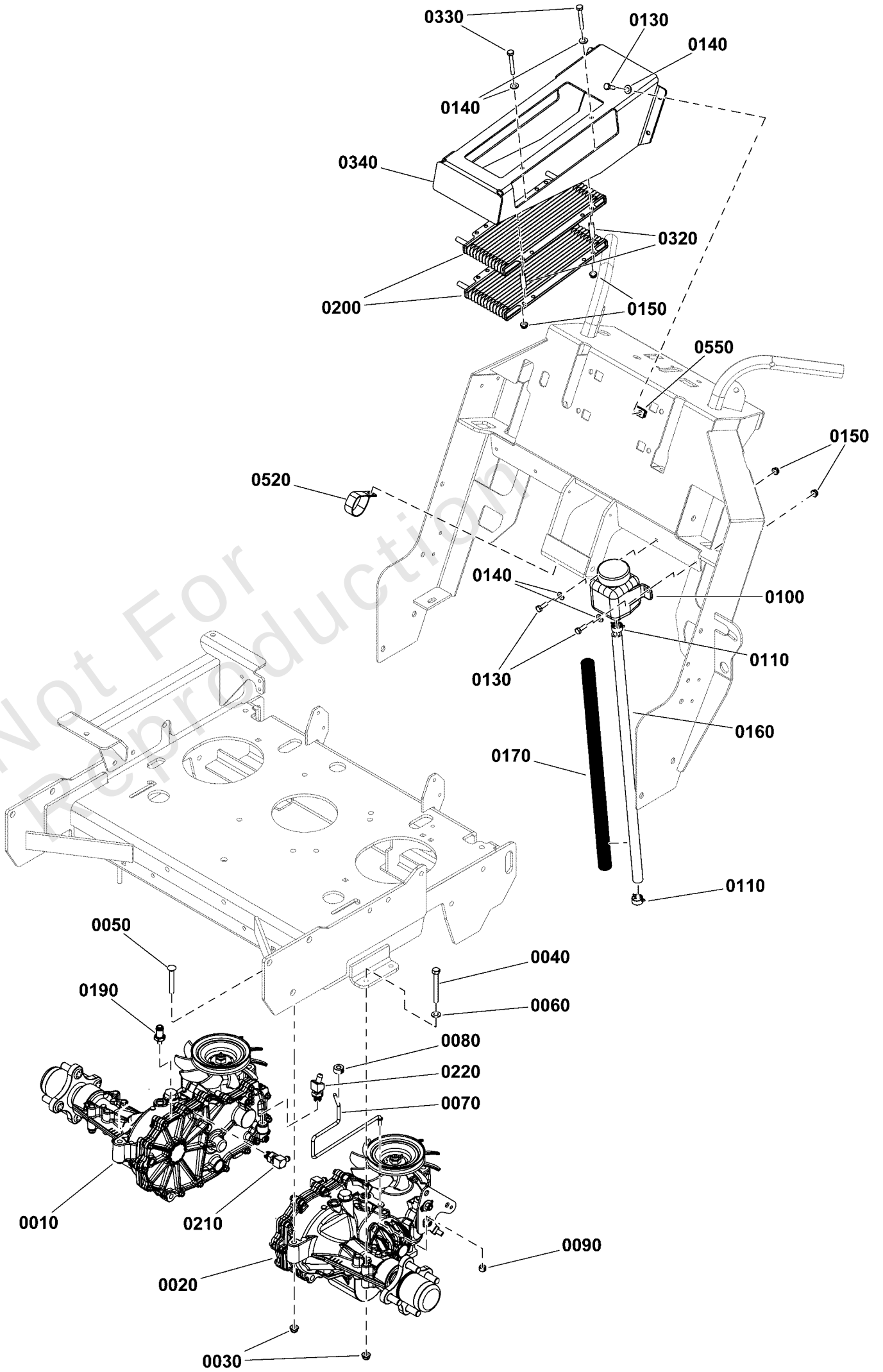
# *Hydraulic Group S/N: 4001694244 and below*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Hydraulic Group S/N: 4001694244 and below*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0010 | 5108694 | 1 | TRANSAXLE, ZT3400, Z9-YMFE-SL5C-1UXX |
| 0020 | 5108693 | 1 | TRANSAXLE, ZT3400, Z9-WMFE-SL5B-1UXX |
| 0030 | 5025392 | 8 | NUT, 5/16-18 HEX NYLOCK FLANGE NUT |
| 0040 | 5025011X22 | 4 | BOLT, 5/16-18 X 2-3/4, GD 5, YZ |
| 0050 | 5025145X18 | 4 | BOLT, 5/16-18 X 2-1/4, CARRIAGE, GD5, CZ |
| 0060 | 5025155 | 4 | WASHER, 5/16" SAE |
| 0070 | 5104532 | 2 | ROD, HYDRO RELEASE, WALKS |
| 0080 | 5020047 | 2 | COLLAR, 5/16" Set |
| 0090 | 5022481 | 2 | COLLAR, Set, 1/4" |
| 0100 | 5100473 | 2 | RESERVOIR, HYDRO OIL, 350 ML |
| 0110 | 5025474 | 4 | CLAMP, HOSE, .75 FREE DIA. |
| 0130 | 5025010X6 | 8 | BOLT, 1/4"-20 X 3/4" GD5 YZ |
| 0140 | 5025154 | 15 | WASHER, 1/4 SAE |
| 0150 | 5025391 | 13 | NUT, 1/4-20 Hex Nylock Flange |
| 0160 | 5050857X24 | 2 | HOSE, 1/2" PUSH-ON, 24.00" |
| 0170 | 5050862X20 | 2 | WIRE LOOM, 3/4 ID X 20 IN |
| 0190 | 5103687 | 2 | FITTING, #6 O-RING 1/2 HOSE BARB, STRAIGHT |
| 0200 | 5101721 | 2 | OIL COOLER, .75 X 11.0 X 24 PLATES |
| 0210 | 5108782 | 2 | FITTING, 90 DEG, 3/8"HOSE-9/16-18 O-RING |
| 0220 | 5108783 | 2 | FITTING, 25 DEG, 3/8"HOSE-9/16-18 O-RING |
| 0320 | 5101215 | 4 | SPACER, .26 X .38 X 1.250, YZ |
| 0330 | 5025010X16 | 4 | BOLT, 1/4-20 X 2”, GD5 |
| 0340 | 5420446AA | 1 | PLATE, COOLER MOUNT, W45 - BLK |
| 0520 | 5023263 | 1 | CLAMP, VINYL INSULATED, 1.75 |
| 0550 | 5022665 | 4 | BODY CLIP, 1/4-20 X 1/2" DEEP |

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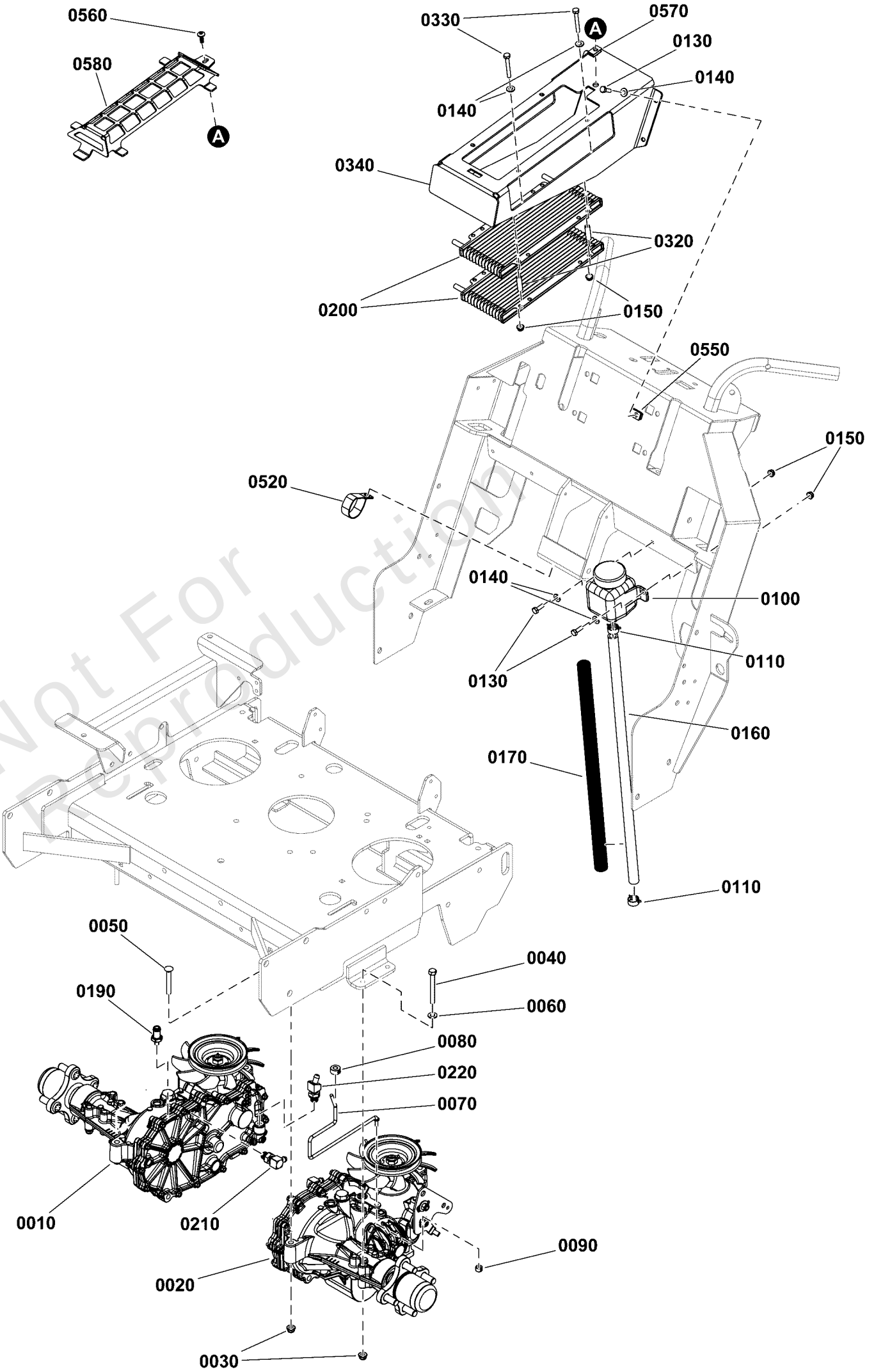
# *Hydraulic Group S/N: 4001694245 and above*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Hydraulic Group S/N: 4001694245 and above*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0010 | 5108694 | 1 | TRANSAXLE, ZT3400, Z9-YMFE-SL5C-1UXX |
| 0020 | 5108693 | 1 | TRANSAXLE, ZT3400, Z9-WMFE-SL5B-1UXX |
| 0030 | 5025392 | 8 | NUT, 5/16-18 HEX NYLOCK FLANGE NUT |
| 0040 | 5025011X22 | 4 | BOLT, 5/16-18 X 2-3/4, GD 5, YZ |
| 0050 | 5025145X18 | 4 | BOLT, 5/16-18 X 2-1/4, CARRIAGE, GD5, CZ |
| 0060 | 5025155 | 4 | WASHER, 5/16" SAE |
| 0070 | 5104532 | 2 | ROD, HYDRO RELEASE, WALKS |
| 0080 | 5020047 | 2 | COLLAR, 5/16" Set |
| 0090 | 5022481 | 2 | COLLAR, Set, 1/4" |
| 0100 | 5100473 | 2 | RESERVOIR, HYDRO OIL, 350 ML |
| 0110 | 5025474 | 4 | CLAMP, HOSE, .75 FREE DIA. |
| 0130 | 5025010X6 | 8 | BOLT, 1/4"-20 X 3/4" GD5 YZ |
| 0140 | 5025154 | 15 | WASHER, 1/4 SAE |
| 0150 | 5025391 | 13 | NUT, 1/4-20 Hex Nylock Flange |
| 0160 | 5050857X24 | 2 | HOSE, 1/2" PUSH-ON, 24.00" |
| 0170 | 5050862X20 | 2 | WIRE LOOM, 3/4 ID X 20 IN |
| 0190 | 5103687 | 2 | FITTING, #6 O-RING 1/2 HOSE BARB, STRAIGHT |
| 0200 | 5101721 | 2 | OIL COOLER, .75 X 11.0 X 24 PLATES |
| 0210 | 5108782 | 2 | FITTING, 90 DEG, 3/8"HOSE-9/16-18 O-RING |
| 0220 | 5108783 | 2 | FITTING, 25 DEG, 3/8"HOSE-9/16-18 O-RING |
| 0320 | 5101215 | 4 | SPACER, .26 X .38 X 1.250, YZ |
| 0330 | 5025010X16 | 4 | BOLT, 1/4-20 X 2”, GD5 |
| 0340 | 5420446AA | 1 | PLATE, COOLER MOUNT, W45 - BLK |
| 0520 | 5023263 | 1 | CLAMP, VINYL INSULATED, 1.75 |
| 0550 | 5022665 | 4 | BODY CLIP, 1/4-20 X 1/2" DEEP |
| 0560 | 1960715 | 1 | SCREW-TRUSS HD TORX DR 1/4-20X0.750 BLK |
| 0570 | 5022665 | 1 | BODY CLIP, 1/4-20 X 1/2" DEEP |
| 0580 | 5420990AA | 1 | PLATE, GUARD, COOLER W45 - BLK |

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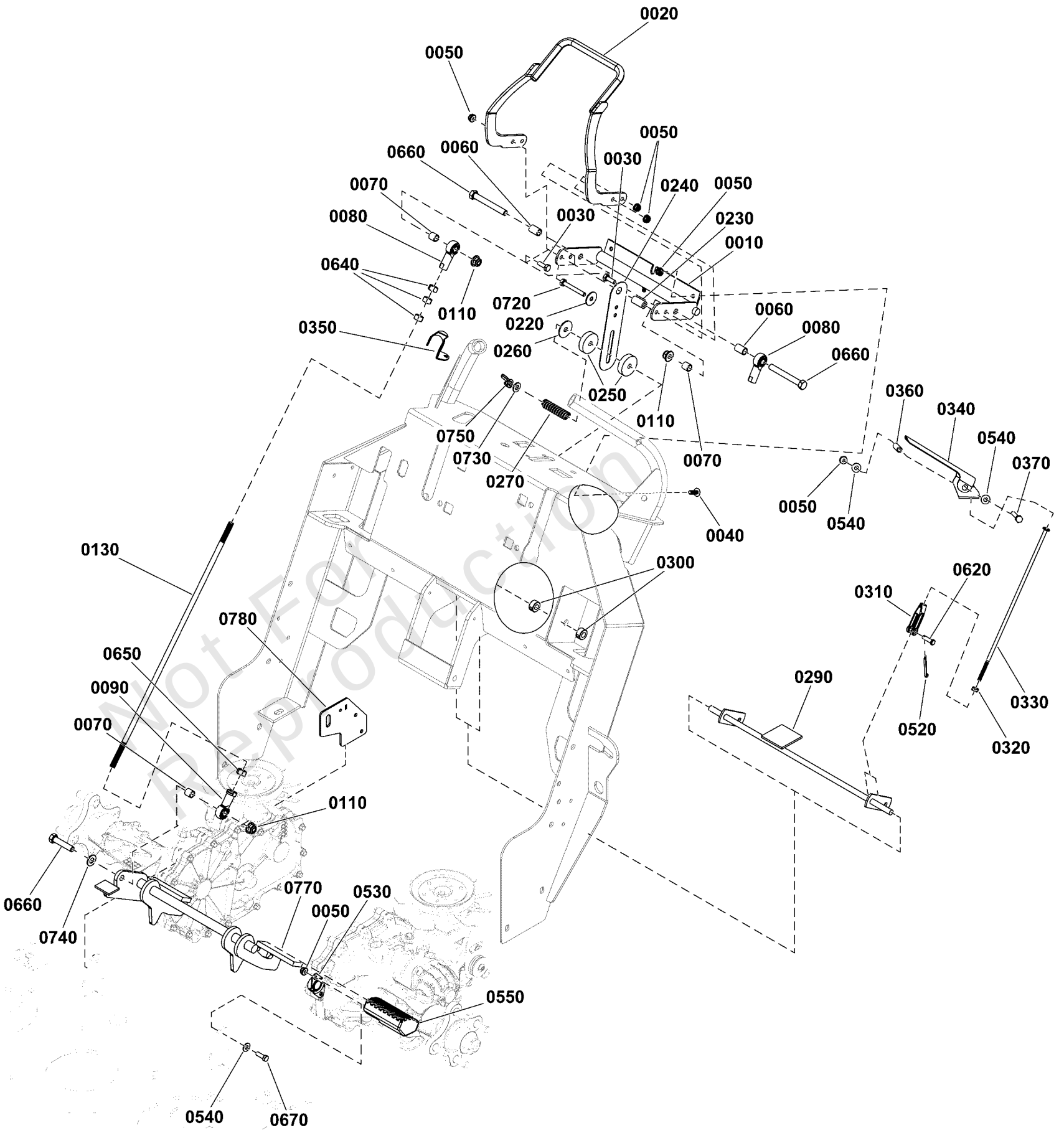
# *Motion Control Group - Forward Speed Control, Operator Presence, and Foot Pedal S/N:*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Motion Control Group - Forward Speed Control, Operator Presence, and Foot Pedal S/N:*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0010 | 5412891AA | 1 | WELD, SPEED CONTROL, SW35 - BLK |
| 0020 | 5420617AA | 1 | WELD, SPEED BAR, W45, CC - BLK |
| 0030 | 5025010X6 | 9 | BOLT, 1/4"-20 X 3/4" GD5 YZ |
| 0040 | ----- | 2 | SCREW-TRUSS HD TORX DR 1/4-20X0.750 ZC/C |
| 0050 | 5025391 | 17 | NUT, 1/4-20 Hex Nylock Flange |
| 0060 | 5047199 | 3 | SPACER, .38 x .50 x .75 |
| 0070 | 5101640 | 1 | SPACER, .38 X .50 X .50, YZ |
| 0080 | 5021683 | 3 | BALL JOINT, 3/8-24 FEMALE |
| 0090 | 5022392 | 1 | BALL JOINT, 3/8-24 LH, Female |
| 0110 | 5025394 | 9 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 0130 | 5104164 | 1 | ROD, 3/8-24, 19.00, LH-RH CZ |
| 0220 | 5025288 | 1 | WASHER, 1/4" Fender |
| 0230 | 5101274 | 1 | SPACER, .26 X .50 X 1.00 YZ |
| 0240 | 5409272 | 1 | PLATE, FRICTION CONTROL, SS |
| 0250 | 5104176 | 2 | PAD, T-712 FRICTION MATERIAL |
| 0260 | 5025164 | 1 | WASHER, 5/16" Fender |
| 0270 | 5104221 | 1 | SPRING, COMP, .40 X .60 X 2.25, BLACK |
| 0290 | 5414516AA | 1 | WELD, OPC ROD, WALKBEHIND - BLK |
| 0300 | 5010546 | 2 | COLLAR, 3/8" Set |
| 0310 | 84007748 | 2 | CLEVIS |
| 0320 | 7090095 | 2 | HN, 1/4F GR5 YZ |
| 0330 | 5101242 | 2 | ROD, OPC LINK, SNP PRO WB |
| 0340 | 5104201AA | 1 | FLAP, OPS - BLK |
| 0350 | 5104202AA | 1 | FLAP, OPS - BLK |
| 0360 | 5101215 | 2 | SPACER, .26 X .38 X 1.250, YZ |
| 0370 | 5025010X14 | 2 | BOLT, 1/4 X 20 X 1-3/4 GD5 YZ |
| 0520 | 5025203X10 | 4 | PIN, COTTER, 1/8 X 1-1/4 |
| 0530 | 5104270 | 2 | BEARING, 5/8" FLANGED, PLASTIC BALL |
| 0540 | 5025154 | 12 | WASHER, 1/4 SAE |
| 0550 | 5104262 | 2 | PEDAL, Rubber |
| 0620 | 5025212X7 | 2 | PIN, CLEVIS, 1/4 X 7/8, PLATED |
| 0640 | 5025035 | 7 | NUT, 3/8-24 HEX (SV) |
| 0650 | 5025317 | 1 | NUT, 3/8-24 Hex, LH |
| 0660 | 5025013X14 | 1 | BOLT, 3/8-16 X 1-3/4" GD5 CZ |
| 0670 | ----- | 2 | HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR |
| 0720 | 5025010X16 | 1 | BOLT, 1/4-20 X 2”, GD5 |
| 0730 | 5025155 | 2 | WASHER, 5/16" SAE |
| 0740 | 5025155 | 1 | WASHER, 5/16" SAE |
| 0750 | 703429 | 1 | NUT, Wing, 5/16-18 |
| 0770 | 5420287AA | 1 | WELD, FOOT PEDAL, W45 - BLK |
| 0780 | 5420222AA | 1 | PLATE, SWITCH MOUNT, W45 - BLK |

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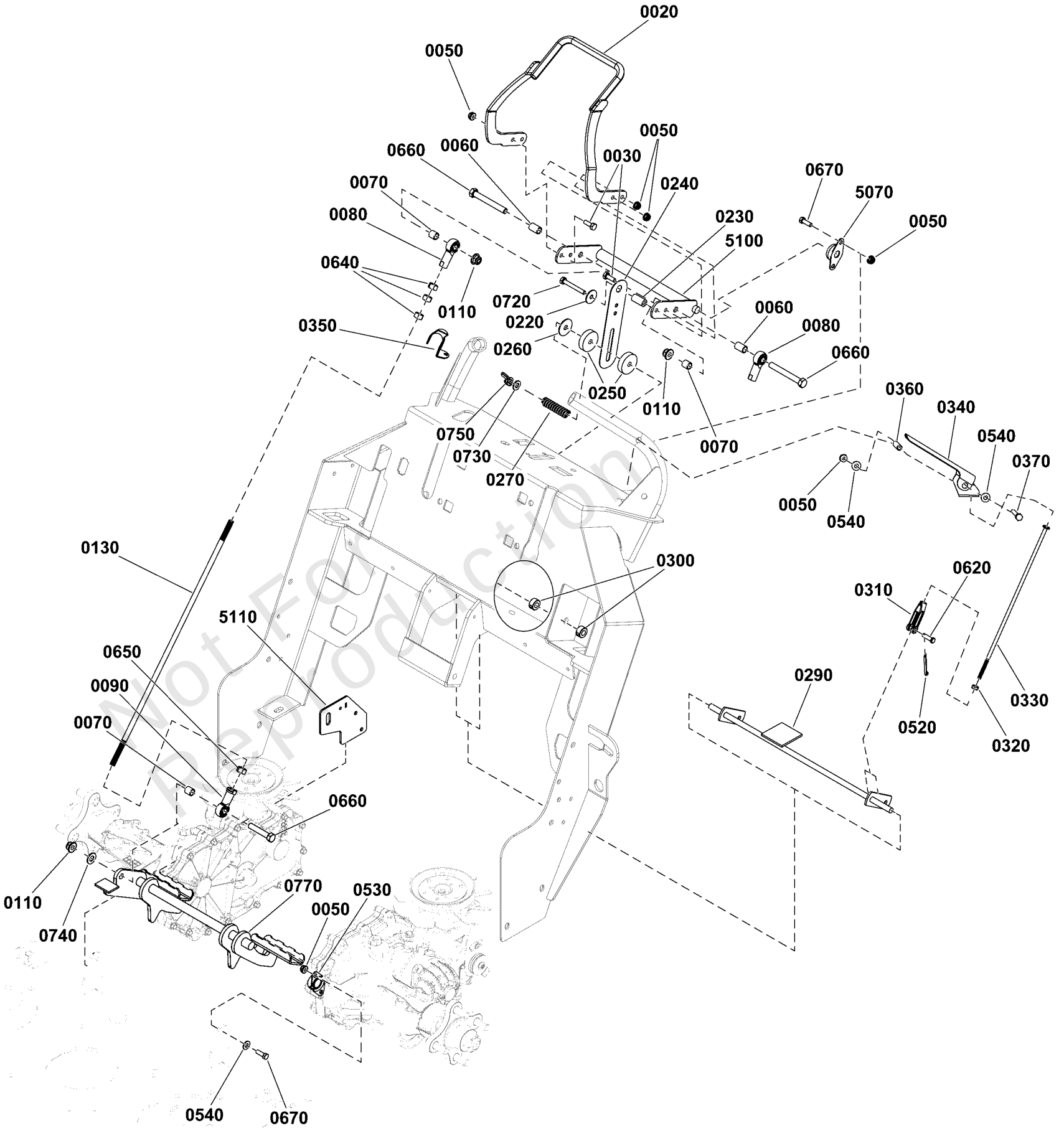
# *Motion Control Group - Forward Speed Control, Operator Presence, and Foot Pedal S/N:*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Motion Control Group - Forward Speed Control, Operator Presence, and Foot Pedal S/N:*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0020 | 5420617AA | 1 | WELD, SPEED BAR, W45, CC - BLK |
| 0030 | 5025010X6 | 3 | BOLT, 1/4"-20 X 3/4" GD5 YZ |
| 0050 | 5025391 | 14 | NUT, 1/4-20 Hex Nylock Flange |
| 0060 | 5047199 | 3 | SPACER, .38 x .50 x .75 |
| 0070 | 5101640 | 1 | SPACER, .38 X .50 X .50, YZ |
| 0080 | 5021683 | 3 | BALL JOINT, 3/8-24 FEMALE |
| 0090 | 5022392 | 1 | BALL JOINT, 3/8-24 LH, Female |
| 0110 | 5025394 | 7 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 0130 | 5104164 | 1 | ROD, 3/8-24, 19.00, LH-RH CZ |
| 0220 | 5025288 | 1 | WASHER, 1/4" Fender |
| 0230 | 5101274 | 1 | SPACER, .26 X .50 X 1.00 YZ |
| 0240 | 5409272 | 1 | PLATE, FRICTION CONTROL, SS |
| 0250 | 5104176 | 2 | PAD, T-712 FRICTION MATERIAL |
| 0260 | 5025164 | 1 | WASHER, 5/16" Fender |
| 0270 | 5104221 | 1 | SPRING, COMP, .40 X .60 X 2.25, BLACK |
| 0290 | 5414516AA | 1 | WELD, OPC ROD, WALKBEHIND - BLK |
| 0300 | 5010546 | 2 | COLLAR, 3/8" Set |
| 0310 | 84007748 | 2 | CLEVIS |
| 0320 | 7090095 | 2 | HN, 1/4F GR5 YZ |
| 0330 | 5101242 | 2 | ROD, OPC LINK, SNP PRO WB |
| 0340 | 5104201AA | 1 | FLAP, OPS - BLK |
| 0350 | 5104202AA | 1 | FLAP, OPS - BLK |
| 0360 | 5101215 | 2 | SPACER, .26 X .38 X 1.250, YZ |
| 0370 | 5025010X14 | 2 | BOLT, 1/4 X 20 X 1-3/4 GD5 YZ |
| 0520 | 5025203X10 | 4 | PIN, COTTER, 1/8 X 1-1/4 |
| 0530 | 5104270 | 2 | BEARING, 5/8" FLANGED, PLASTIC BALL |
| 0540 | 5025154 | 8 | WASHER, 1/4 SAE |
| 0620 | 5025212X7 | 2 | PIN, CLEVIS, 1/4 X 7/8, PLATED |
| 0640 | 5025035 | 9 | NUT, 3/8-24 HEX (SV) |
| 0650 | 5025317 | 1 | NUT, 3/8-24 Hex, LH |
| 0660 | 80003522 | 1 | HHCS, 3/8-16 X 2.00, GR5, ZINC/CLEAR |
| 0670 | ----- | 8 | HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR |
| 0720 | 5025010X16 | 1 | BOLT, 1/4-20 X 2”, GD5 |
| 0750 | 703429 | 1 | NUT, Wing, 5/16-18 |
| 0770 | 5420287AA | 1 | WELD, FOOT PEDAL, W45 - BLK |
| 5070 | 5101123 | 2 | BEARING, 1/2 FLANGED, PLASTIC BALL |
| 5100 | 5421102AA | 1 | WELD, SPEED CONTROL PIVOT, W45 - BLK |
| 5110 | 84008504 | 1 | PLATE, SWITCH |

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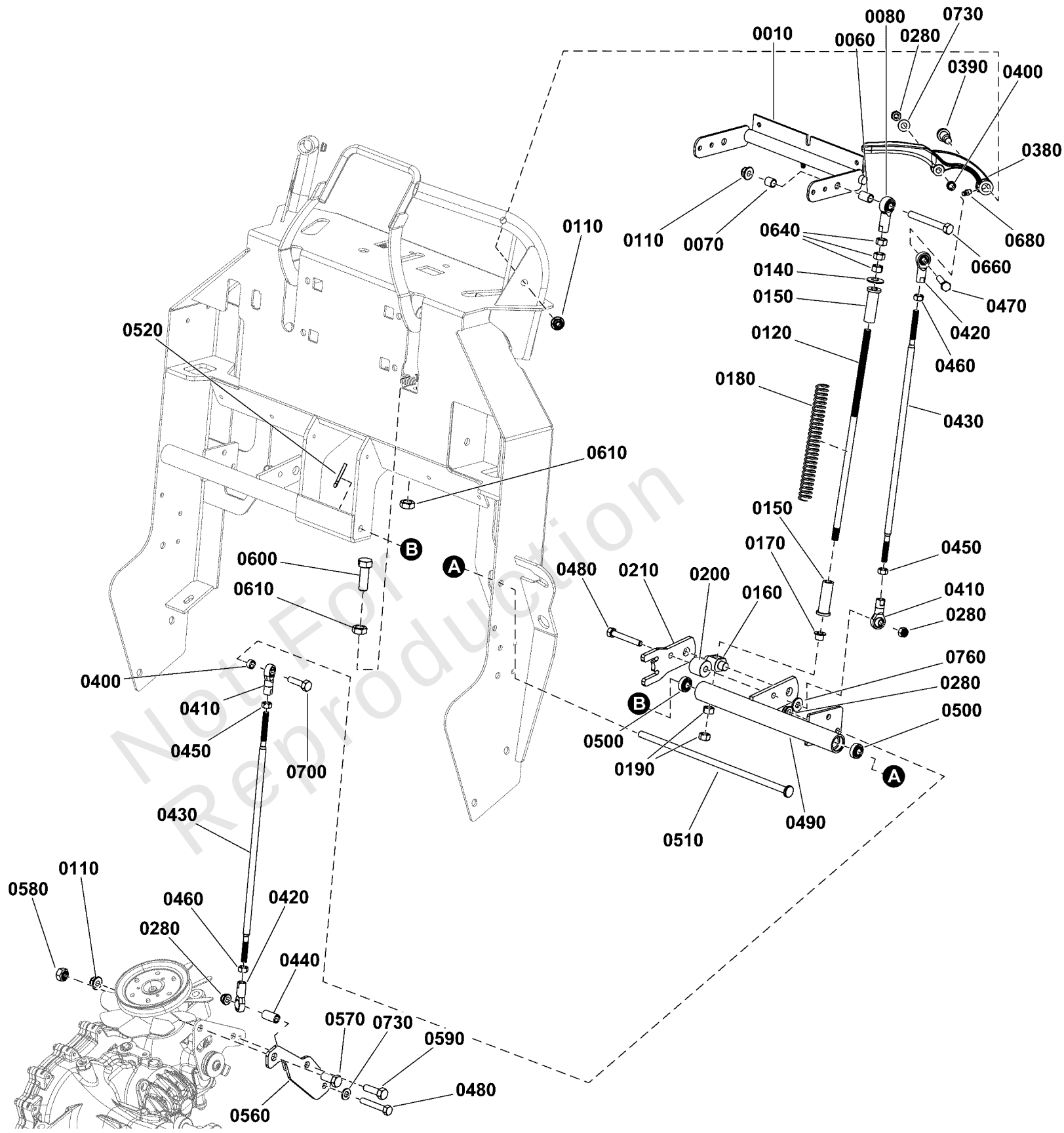
# *Motion Control Group - Steering Levers S/N: 4001694244 and below*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Motion Control Group - Steering Levers S/N: 4001694244 and below*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0010 | 5412891AA | 1 | WELD, SPEED CONTROL, SW35 - BLK |
| 0060 | 5047199 | 3 | SPACER, .38 x .50 x .75 |
| 0070 | 5101640 | 1 | SPACER, .38 X .50 X .50, YZ |
| 0080 | 5021683 | 3 | BALL JOINT, 3/8-24 FEMALE |
| 0110 | 5025394 | 9 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 0120 | 5104229 | 2 | ROD, CONTROL SYSTEM, WALK |
| 0140 | 5025401 | 2 | WASHER, 3/8" USS |
| 0150 | 5104375 | 4 | FLANGED BUSHING, 3/8IDX.63ODX.8125FL |
| 0160 | 5103022 | 2 | TRUNION, 1/2" POSTS, STAINLESS |
| 0170 | 5102773 | 2 | BUSHING, .38ID X .47 OD X .38L, FL |
| 0180 | 5104374 | 2 | SPRING,COMP,.645IDX8.00LGX.080WR,BLK E-C |
| 0190 | 5025034 | 4 | NUT, 3/8-16 HEX, YZ |
| 0200 | 5104351 | 2 | SPACER, .33 X 1.00 X .88, CZ |
| 0210 | 5414411AA | 2 | TAB, PIVOT, W35 - BLK |
| 0280 | 5025392 | 10 | NUT, 5/16-18 HEX NYLOCK FLANGE NUT |
| 0380 | 5102556AA | 2 | HANDLE, REVERSING - BLK |
| 0390 | 5109888 | 2 | BOLT, 3/8-16 X 1/2, 1.00 SHOULDER, CZ |
| 0400 | 5102463 | 4 | SPACER, .33 X .50 X .25, PM, CZ |
| 0410 | 5104494 | 4 | BALL JOINT 5/16-24 LH FEMALE BRONZE RACE |
| 0420 | 5104493 | 4 | BALL JOINT 5/16-24 RH FEMALE BRONZE RACE |
| 0430 | 5104159 | 4 | ROD, 5/16-24 X 15.48, LH-RH, CZ |
| 0440 | 84008514 | 2 | SPACER (.325 X .496 X 1.000) |
| 0450 | 5023212 | 4 | NUT, 5/16-24 HEX, LH |
| 0460 | 5025033 | 4 | NUT, Hex, 5/16-24 |
| 0470 | 5025011X18 | 4 | BOLT, 5/16-18 X 2-1/4" GD5 YZ |
| 0480 | 5025011X16 | 4 | BOLT, 5/16-18 X 2" GD5 YZ |
| 0490 | 5414184AA | 1 | WELD, W35 CONTROL PIVOT, LH - BLK |
| 0500 | 5102003 | 4 | BEARING, .375" ID X .875" OD X .341" THK |
| 0510 | 5104171 | 2 | ROD, 3/8 X 12, HEADED - CZ |
| 0520 | 5025203X10 | 4 | PIN, COTTER, 1/8 X 1-1/4 |
| 0560 | 84007883 | 2 | MOUNT |
| 0570 | 5025015X6 | 2 | BOLT, 7/16-14 X 3/4, GD 5 YZ |
| 0580 | 5025044 | 2 | NUT, 7/16-14 HEX TOP LOCK |
| 0590 | 5025013X8 | 2 | BOLT, 3/8-16 X 1" GD5 CZ |
| 0600 | 5025426 | 1 | BOLT, 1/2-20 X 2-1/2, FLT |
| 0610 | 5025089 | 2 | NUT, 1/2-20 Hex Jam |
| 0640 | 5025035 | 7 | NUT, 3/8-24 HEX (SV) |
| 0660 | 5025013X14 | 1 | BOLT, 3/8-16 X 1-3/4" GD5 CZ |
| 0680 | 5020095 | 2 | GREASE FITTING, 1/4-28 Straight |
| 0690 | 5414183AA | 1 | WELD, W35 CONTROL PIVOT, RH - BLK -(Not illustrated) |
| 0700 | 5025055X10 | 4 | BOLT, 5/16-18 X 1-1/4 GD5 TFL, CZ |
| 0730 | 5025155 | 2 | WASHER, 5/16" SAE |
| 0760 | 5025292 | 2 | WASHER, 5/16 GRADE 9, FLAT |

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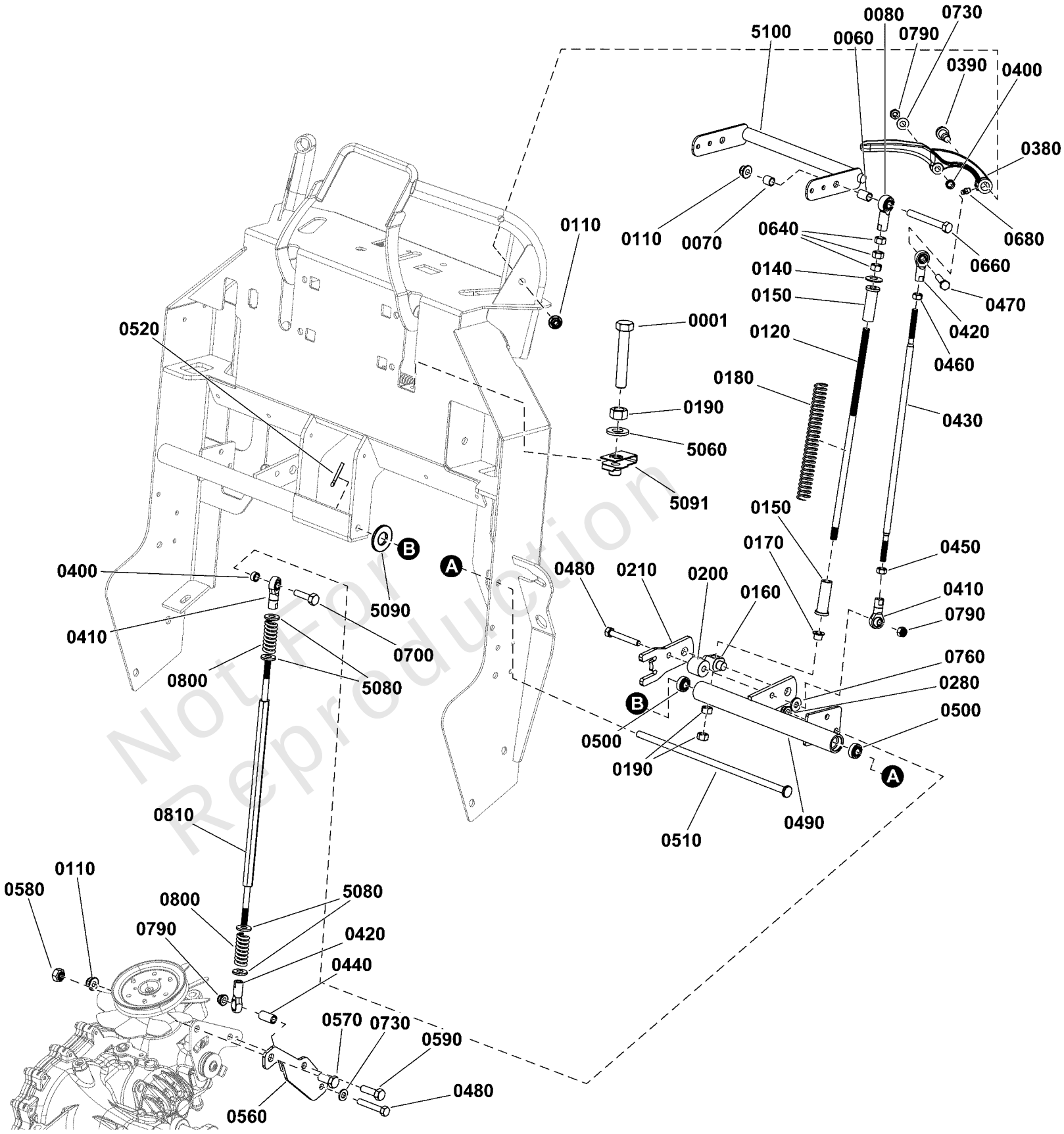
# *Motion Control Group - Steering Levers S/N: 4001694245 and above*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Motion Control Group - Steering Levers S/N: 4001694245 and above*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0001 | 5025058X18 | 1 | BOLT, 3/8-16 X 2-1/4" GD5 TFL |
| 0060 | 5047199 | 3 | SPACER, .38 x .50 x .75 |
| 0070 | 5101640 | 1 | SPACER, .38 X .50 X .50, YZ |
| 0080 | 5021683 | 3 | BALL JOINT, 3/8-24 FEMALE |
| 0110 | 5025394 | 9 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 0120 | 5104229 | 2 | ROD, CONTROL SYSTEM, WALK |
| 0120 | 5104229 | 2 | ROD, CONTROL SYSTEM, WALK |
| 0140 | 5025401 | 2 | WASHER, 3/8" USS |
| 0150 | 5104375 | 4 | FLANGED BUSHING, 3/8IDX.63ODX.8125FL |
| 0160 | 5103022 | 2 | TRUNION, 1/2" POSTS, STAINLESS |
| 0170 | 5102773 | 2 | BUSHING, .38ID X .47 OD X .38L, FL |
| 0180 | 5104374 | 2 | SPRING,COMP,.645IDX8.00LGX.080WR,BLK E-C |
| 0190 | 5025034 | 5 | NUT, 3/8-16 HEX, YZ |
| 0200 | 5104351 | 2 | SPACER, .33 X 1.00 X .88, CZ |
| 0210 | 5414411AA | 2 | TAB, PIVOT, W35 - BLK |
| 0280 | 5025392 | 2 | NUT, 5/16-18 HEX NYLOCK FLANGE NUT |
| 0380 | 5102556AA | 2 | HANDLE, REVERSING - BLK |
| 0390 | 5109888 | 2 | BOLT, 3/8-16 X 1/2, 1.00 SHOULDER, CZ |
| 0400 | 5102463 | 4 | SPACER, .33 X .50 X .25, PM, CZ |
| 0410 | 5104494 | 4 | BALL JOINT 5/16-24 LH FEMALE BRONZE RACE |
| 0420 | 5104493 | 4 | BALL JOINT 5/16-24 RH FEMALE BRONZE RACE |
| 0430 | 5104159 | 2 | ROD, 5/16-24 X 15.48, LH-RH, CZ |
| 0440 | 84008514 | 2 | SPACER (.325 X .496 X 1.000) |
| 0450 | 5023212 | 2 | NUT, 5/16-24 HEX, LH |
| 0460 | 5025033 | 4 | NUT, Hex, 5/16-24 |
| 0470 | 5025011X18 | 4 | BOLT, 5/16-18 X 2-1/4" GD5 YZ |
| 0480 | 5025011X20 | 4 | BOLT, 5/16-18 X 2-1/2" GD5 YZ |
| 0490 | 5414184AA | 1 | WELD, W35 CONTROL PIVOT, LH - BLK |
| 0500 | 5102003 | 4 | BEARING, .375" ID X .875" OD X .341" THK |
| 0510 | 5104171 | 2 | ROD, 3/8 X 12, HEADED - CZ |
| 0520 | 5025203X10 | 4 | PIN, COTTER, 1/8 X 1-1/4 |
| 0560 | 84007883 | 2 | MOUNT |
| 0570 | 5025015X6 | 2 | BOLT, 7/16-14 X 3/4, GD 5 YZ |
| 0580 | 5025044 | 2 | NUT, 7/16-14 HEX TOP LOCK |
| 0590 | 5025013X6 | 2 | BOLT, 3/8-16 X 3/4" GD5 CZ |
| 0640 | 5025035 | 7 | NUT, 3/8-24 HEX (SV) |
| 0660 | 5025013X14 | 1 | BOLT, 3/8-16 X 1-3/4" GD5 CZ |
| 0680 | 5020095 | 2 | GREASE FITTING, 1/4-28 Straight |
| 0690 | 5414183AA | 1 | WELD, W35 CONTROL PIVOT, RH - BLK |
| 0700 | 5025055X10 | 4 | BOLT, 5/16-18 X 1-1/4 GD5 TFL, CZ |
| 0730 | 5025155 | 7 | WASHER, 5/16" SAE |
| 0760 | 5025292 | 2 | WASHER, 5/16 GRADE 9, FLAT |
| 0790 | 5025057 | 6 | NUT, Hex, Nylon Locking, 5/16-18 |
| 0800 | 5021773 | 4 | SPRING-COMP, .438ID X 1.75LG X .137WR |
| 0810 | 5109457 | 2 | ROD, 1/2 HEX, 5/16-24 X 15.50,LH-RH, CZ |
| 5060 | 5025293 | 1 | WASHER, 3/8" GR. 9 FLAT |
| 5080 | 5025292 | 8 | WASHER, 5/16 GRADE 9, FLAT |
| 5090 | 5025156 | 2 | WASHER, 3/8 SAE |
| 5091 | 5022649 | 1 | BODY CLIP, 3/8-16 X .688" DEEP |
| 5100 | 5421102AA | 1 | WELD, SPEED CONTROL PIVOT, W45 - BLK |

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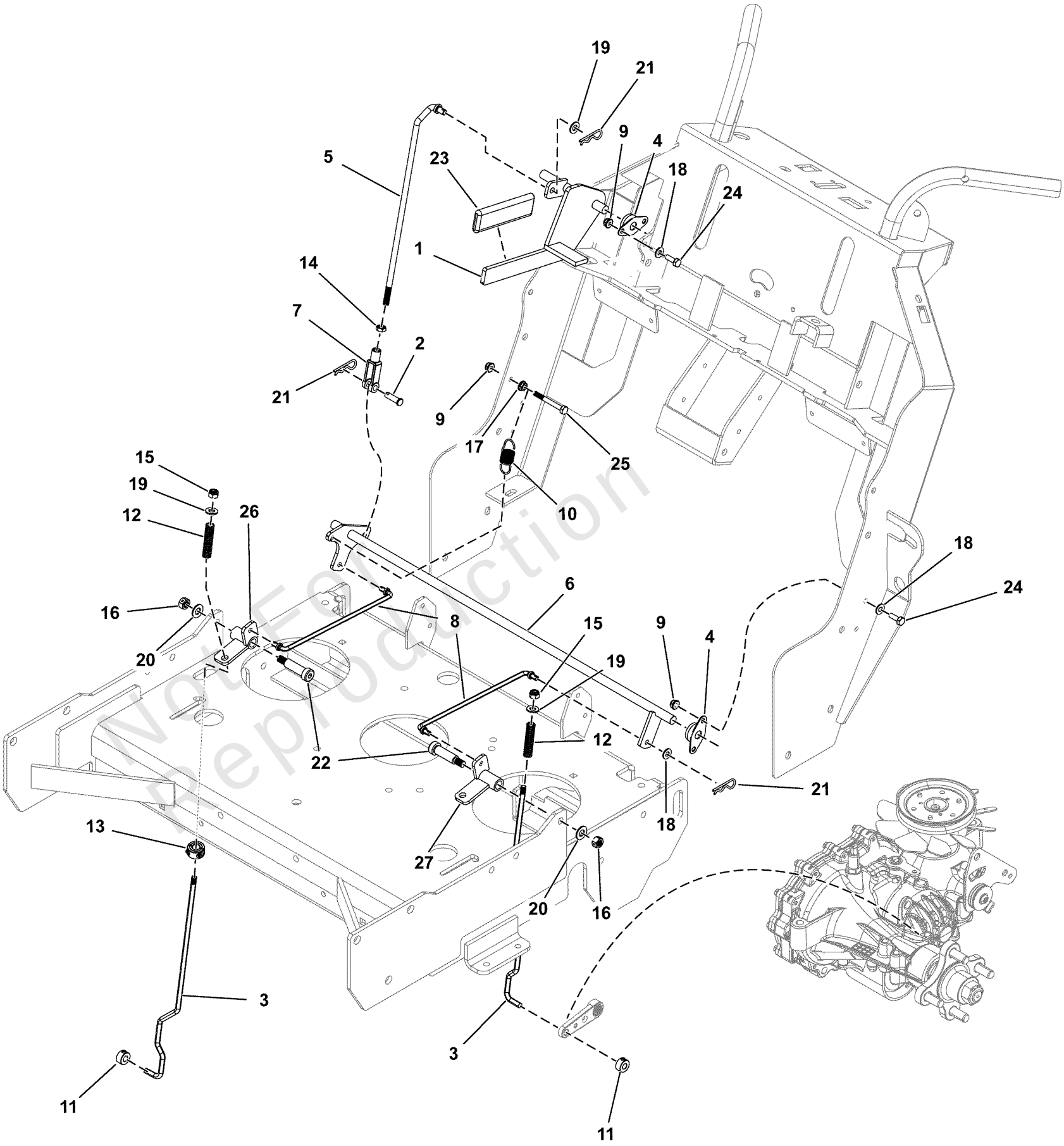
# *Parking Brake Group S/N: 4001694244 and Below*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Parking Brake Group S/N: 4001694244 and Below*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 1 | 5420288AA | 1 | WELD, BRAKE HANDLE, W45 - BLK |
| 2 | 5025213X8 | 1 | PIN, CLEVIS, 5/16 X 1, PLATED |
| 3 | 5108660 | 2 | ROD, PARKING BRAKE, W45 |
| 4 | 5101123 | 4 | BEARING, 1/2 FLANGED, PLASTIC BALL |
| 5 | 5104641 | 1 | ROD, PARKING BRAKE, W35, UPPER |
| 6 | 5414628AA | 1 | WELD, BRAKE ROD, W35 - BLK |
| 7 | 5023323 | 1 | CLEVIS, 5/16-24, STEEL, CLEAR ZINC |
| 8 | 5104642 | 2 | ROD, PARKING BRAKE, W35, UPPER |
| 9 | 5025391 | 9 | NUT, 1/4-20 Hex Nylock Flange |
| 10 | 5010213 | 1 | SPRING-EXT, .740 ODX2.025LGX.072WR, BLK |
| 11 | 5020047 | 2 | COLLAR, 5/16" Set |
| 12 | 5020637 | 2 | SPRING-COMP, .375IDX2.75LGX.054WR, SS |
| 13 | 5104748 | 2 | COLLAR, DOUBLE SPLIT, 7MM |
| 14 | 5023216 | 1 | NUT, Hex Jam, 5/16-24 |
| 15 | 5025045 | 2 | NUT, 5/16-24 HEX NYLON LOCK |
| 16 | 5025100 | 2 | NUT, Hex, Side Lock, 3/8-16 |
| 17 | 5025126 | 1 | NUT, 1/4-20 HEX SERR. FLANGE |
| 18 | 5025154 | 10 | WASHER, 1/4 SAE |
| 19 | 5025155 | 3 | WASHER, 5/16" SAE |
| 20 | 5025156 | 2 | WASHER, 3/8 SAE |
| 21 | 5025211 | 6 | PIN, HAIR, .0585 X 1-1/8, 1/4 EYE, YZ |
| 22 | 5025220 | 2 | BOLT, 3/8-16 x 1-1/2", 1/2" SHOULDER |
| 23 | 5025510 | 1 | GRIP, FOAM, 1/4 X 1 X 4.1 |
| 24 | 5025010X6 | 8 | BOLT, 1/4"-20 X 3/4" GD5 YZ |
| 25 | 5025010X18 | 1 | BOLT, 1/4-20 X 2-1/4 GD5 CZ |
| 26 | 5414630AA | 1 | WELD, BRAKE PIVOT, W35 - RH - BLK |
| 27 | 84008396 | 1 | PIVOT |

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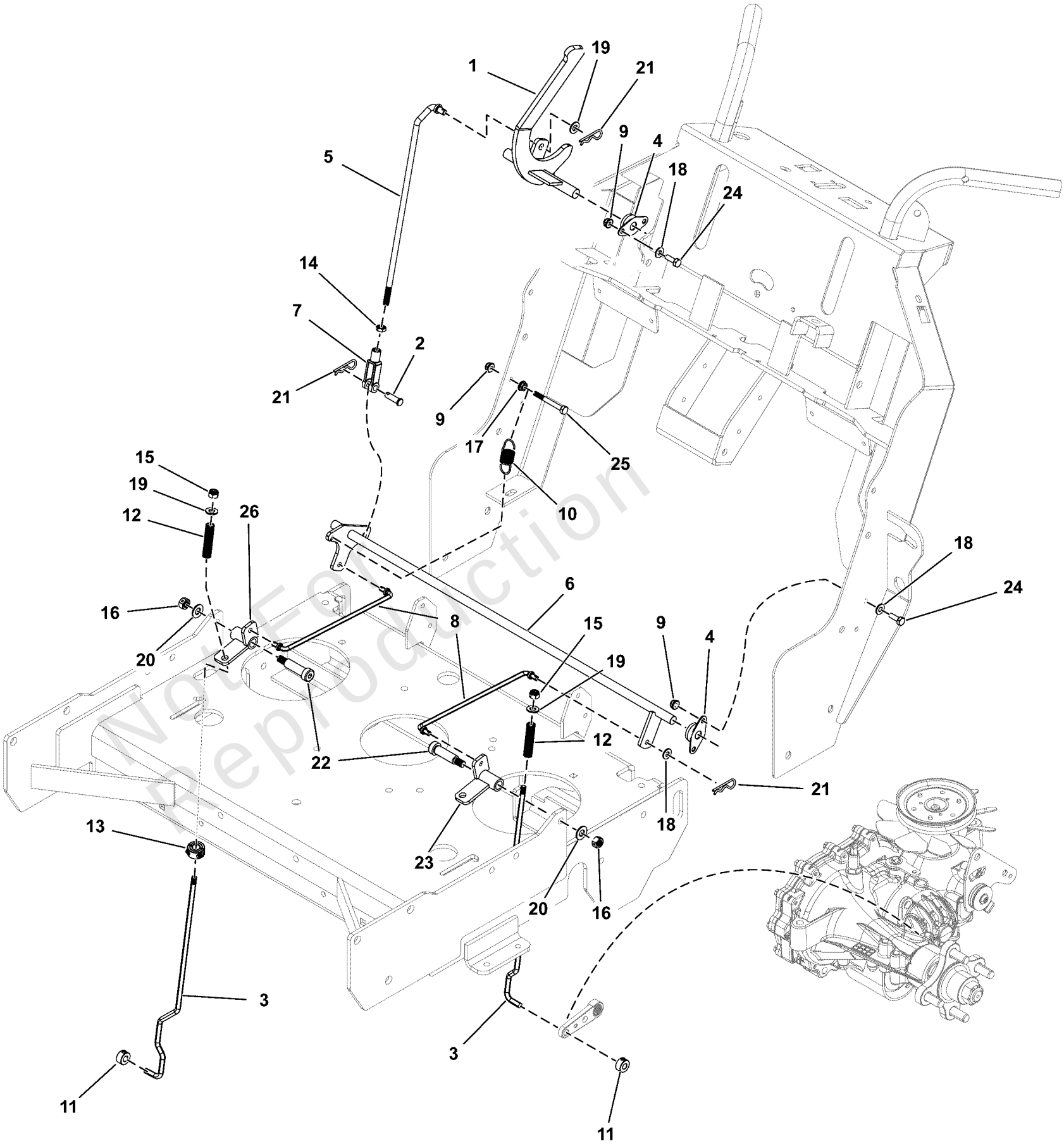
# *Parking Brake Group S/N: 4001694245 and Above*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Parking Brake Group S/N: 4001694245 and Above*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 1 | 5421078AA | 1 | WELD, BRAKE HANDLE, W45 - BLK |
| 2 | 5025213X8 | 1 | PIN, CLEVIS, 5/16 X 1, PLATED |
| 3 | 5108660 | 2 | ROD, PARKING BRAKE, W45 |
| 4 | 5101123 | 4 | BEARING, 1/2 FLANGED, PLASTIC BALL |
| 5 | 5104641 | 1 | ROD, PARKING BRAKE, W35, UPPER |
| 6 | 5414628AA | 1 | WELD, BRAKE ROD, W35 - BLK |
| 7 | 5023323 | 1 | CLEVIS, 5/16-24, STEEL, CLEAR ZINC |
| 8 | 5104642 | 2 | ROD, PARKING BRAKE, W35, UPPER |
| 9 | 5025391 | 9 | NUT, 1/4-20 Hex Nylock Flange |
| 10 | 5010213 | 1 | SPRING-EXT, .740 ODX2.025LGX.072WR, BLK |
| 11 | 5020047 | 2 | COLLAR, 5/16" Set |
| 12 | 5020637 | 2 | SPRING-COMP, .375IDX2.75LGX.054WR, SS |
| 13 | 5104748 | 2 | COLLAR, DOUBLE SPLIT, 7MM |
| 14 | 5023216 | 1 | NUT, Hex Jam, 5/16-24 |
| 15 | 5025045 | 2 | NUT, 5/16-24 HEX NYLON LOCK |
| 16 | 5025100 | 2 | NUT, Hex, Side Lock, 3/8-16 |
| 17 | 5025126 | 1 | NUT, 1/4-20 HEX SERR. FLANGE |
| 18 | 5025154 | 10 | WASHER, 1/4 SAE |
| 19 | 5025155 | 3 | WASHER, 5/16" SAE |
| 20 | 5025156 | 2 | WASHER, 3/8 SAE |
| 21 | 5025211 | 6 | PIN, HAIR, .0585 X 1-1/8, 1/4 EYE, YZ |
| 22 | 5025220 | 2 | BOLT, 3/8-16 x 1-1/2", 1/2" SHOULDER |
| 23 | 84008396 | 1 | PIVOT |
| 24 | 5025010X6 | 8 | BOLT, 1/4"-20 X 3/4" GD5 YZ |
| 25 | 5025010X18 | 1 | BOLT, 1/4-20 X 2-1/4 GD5 CZ |
| 26 | 5414630AA | 1 | WELD, BRAKE PIVOT, W35 - RH - BLK |

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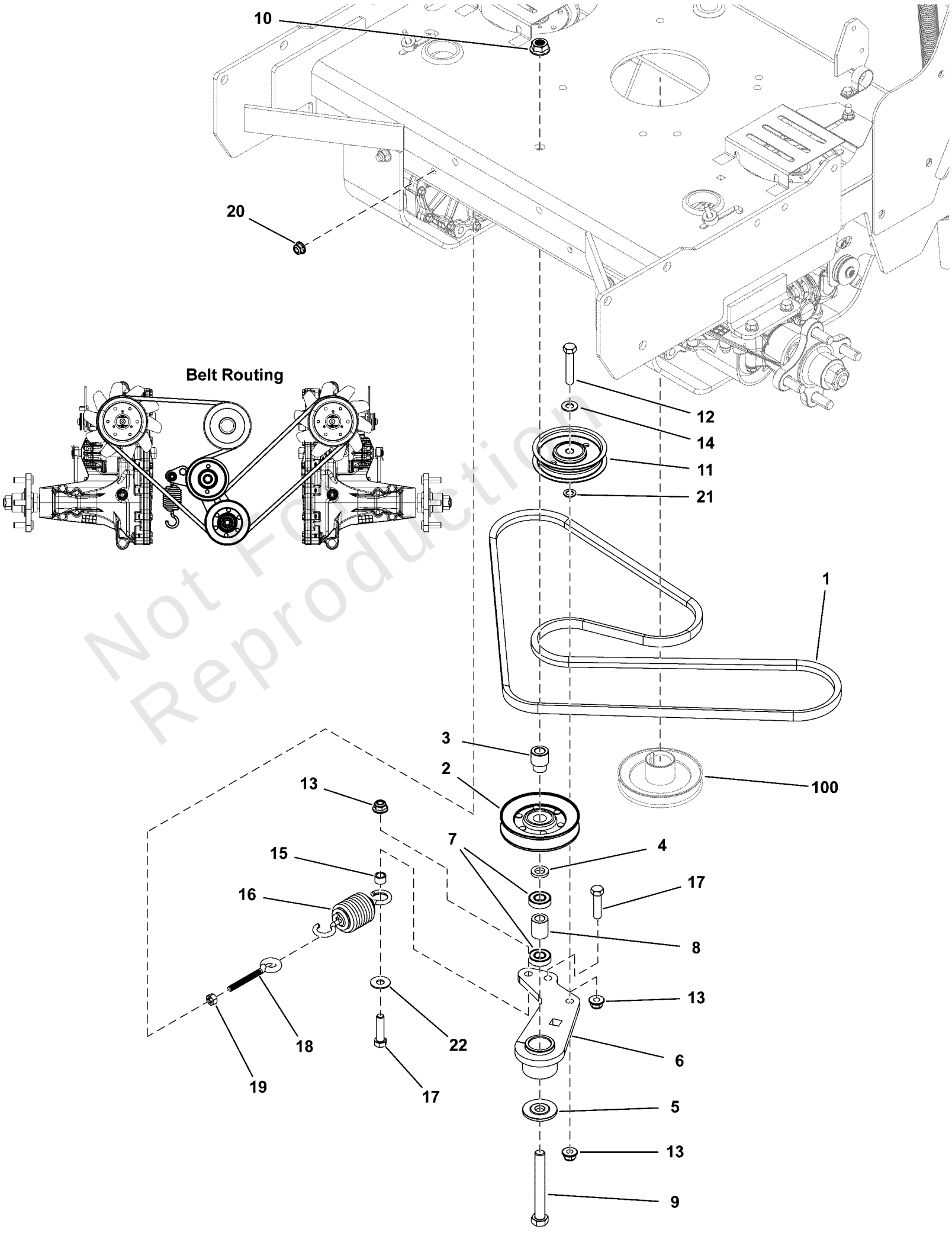
# *Transaxle Drive Group*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

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## *Transaxle Drive Group*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 1 | 5104193 | 1 | BELT, A-SEC, COG TYPE, 76.2" EL ARAMID |
| 2 | 5021225 | 1 | PULLEY-IDLER-V, 4.00OB, .669ID, .88W,STL |
| 3 | 5104237 | 1 | INSERT, BEARING, .51ID X .90OD X 1.15L |
| 4 | 5104286 | 1 | SPACER, .52 X .88 X .14, HT |
| 5 | 5103262 | 1 | SPACER, IDLER ARM, 1/2, PM |
| 6 | 5420337AA | 1 | WELD, IDLER, HYDRO, W45 - BLK |
| 7 | 7078243 | 2 | BEARING, BALL, AXLE |
| 8 | 5104153 | 1 | SPACER, .52 X .84 X 1.00, PM |
| 9 | 5025017X32 | 1 | BOLT, 1/2-13 X 4" GD5 CZ |
| 10 | 5025396 | 1 | NUT,  Hex Flange, Nylock,  1/2-13 |
| 11 | 5104191 | 1 | PULLEY, FLAT IDLER, 3-1/4" FLANGED |
| 12 | 80003522 | 1 | HHCS, 3/8-16 X 2.00, GR5, ZINC/CLEAR |
| 13 | 5025394 | 3 | NUT, 3/8 - 16 HEX NYLOCK FLANGE |
| 14 | 5025156 | 1 | WASHER, 3/8 SAE |
| 15 | 5103676 | 1 | SPACER, .39 X .55 X .38, PM, CZ |
| 16 | 5104676 | 1 | SPRING EXT, 1.50ODX4.75LGX.177WR, BLK |
| 17 | 5025013X14 | 2 | BOLT, 3/8-16 X 1-3/4" GD5 CZ |
| 18 | 5025141X26 | 1 | EYE BOLT,5/16-18 X3.5,2.13THRD,.55EYE,CZ |
| 19 | 5025032 | 1 | NUT, 5/16-18 HEX |
| 20 | 5025392 | 1 | NUT, 5/16-18 HEX NYLOCK FLANGE NUT |
| 21 | 5104937 | 1 | SPACER, .385"ID X .625" OD X .062" THK |
| 22 | 5025401 | 1 | WASHER, 3/8" USS |
| 100 | ----- | 1 | Refer to: Engine & PTO Group |

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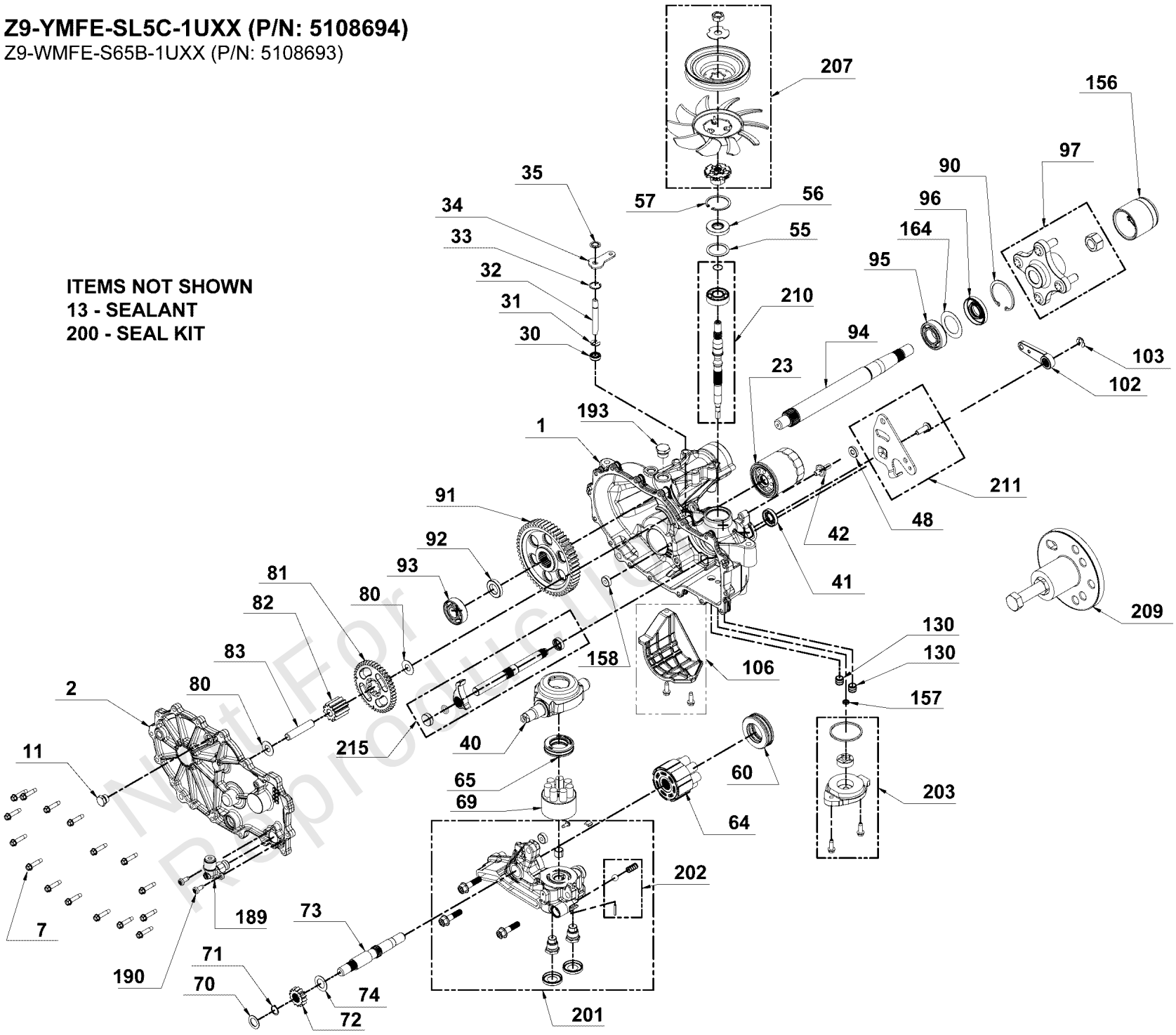
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

## Z9-YMFE-SL5C-1UXX (P/N: 5108694)

Z9-WMFE-S65B-1UXX (P/N: 5108693)

**ITEMS NOT SHOWN**
**13 - SEALANT**
**200 - SEAL KIT**

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## *Transaxle SERVICE PARTS - 5108694 and 5108693*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 5108694 | 5108694 | 1 | TRANSAXLE, ZT3400, Z9-YMFE-SL5C-1UXX |
| 5108693 | 5108693 | 1 | TRANSAXLE, ZT3400, Z9-WMFE-SL5B-1UXX |
| 1 | ----- | 1 | KIT, MAIN HOUSING LH, CHARGE, CONTROL |
| 2 | ----- | 1 | KIT, COVER, SIDE, LH, COOLER |
| 7 | ----- | 16 | SCREW, HEX WASHER |
| 11 | ----- | 1 | PLUG EXTERNAL HEX VENT 9/16-18 |
| 13 | ----- | 1 | TUBE, SEALANT |
| 23 | ----- | 1 | FILTER, SPIN-ON 2.6 X 3.0 |
| 30 | ----- | 1 | SEAL, LIP .375 X .75 X .25 |
| 31 | ----- | 1 | BYPASS RETAINING RING 1 |
| 32 | ----- | 1 | ROD, BYPASS .375 X 2.88 |
| 33 | ----- | 1 | BYPASS RETAINING RING 2 |
| 34 | ----- | 1 | ARM, BYPASS |
| 35 | ----- | 1 | RING, RETAINING .375 EXTERNAL |
| 40 | ----- | 1 | SWASHPLATE, TRUNNION |
| 41 | ----- | 1 | SEAL, LIP 10 X 32 X 7 |
| 42 | ----- | 1 | STUD, SHORT 5/16-24 |
| 48 | ----- | 1 | SPACER |
| 55 | 1730272 | 1 | SPACER (50951) |
| 56 | 5023414 | 1 | Lip Seal 17 x 40 x 7 PTC |
| 57 | 5023415 | 1 | Spacer |
| 60 | ----- | 1 | BEARING, THRUST 35 x 62 x 18 |
| 64 | ----- | 1 | KIT, 16cc CYLINDER BLOCK ASSEMBLY STEAM TREAT |
| 65 | ----- | 1 | BEARING, THRUST PLASTIC CAGE |
| 69 | ----- | 1 | KIT, BLOCK 7 PISTON |
| 70 | ----- | 1 | WASHER, .63 X 1.00 X .05 FLAT |
| 71 | 1706130 | 1 | RING-SNAP (44145) |
| 72 | ----- | 1 | GEAR, 14T (STEEL) |
| 73 | ----- | 1 | SHAFT, MOTOR |
| 74 | ----- | 1 | WASHER, .71 X 1.16 X .04 FLAT |
| 80 | ----- | 2 | WASHER, .51 X 1.00 X .03 FLAT |
| 81 | ----- | 1 | GEAR, 45T |
| 82 | ----- | 1 | GEAR, 11T (STEEL) |
| 83 | ----- | 1 | PIN, JACKSHAFT |
| 90 | ----- | 1 | RING, RETAINING 2.25 INTERNAL |
| 91 | ----- | 1 | GEAR, 54T FORGED |
| 92 | ----- | 1 | SPACER, .750 X 1.320 X .257 |
| 93 | ----- | 1 | KIT, BEARING |
| 94 | 5104822X2 | 1 | SHAFT, AXLE, ZT-3400, 53528 |
| 95 | ----- | 1 | BEARING, BALL, AXLE INBOARD |
| 96 | 5103589X1 | 1 | KIT, SEAL, AXLE - HG# 53699 |
| 97 | 5103382 | 1 | HUB, ASM, TRANS 5101188/89 & 5102154/55 |
| 102 | 5103750 | 1 | BRAKE ARM, ZT3400 |
| 103 | 5104055 | 1 | E-CLIP, BRAKE ARM, ZT3100 & ZT3400 |
| 106 | ----- | 1 | KIT, FILTER GUARD |
| 130 | ----- | 2 | TUBE, CHARGE TRIPLE O-RING |
| 156 | 5104822X3 | 1 | CAP, AXLE, ZT-3400, 53501 |
| 157 | ----- | 1 | KIT, GEROTOR SEAL |
| 158 | ----- | 1 | MAGNET |
| 164 | ----- | 1 | WASHER, 1.355 x 2.035 x .021 FLAT |
| 189 | 5108072X10 | 1 | ASSEMBLY, AUX COOLER PORT (#55672) |

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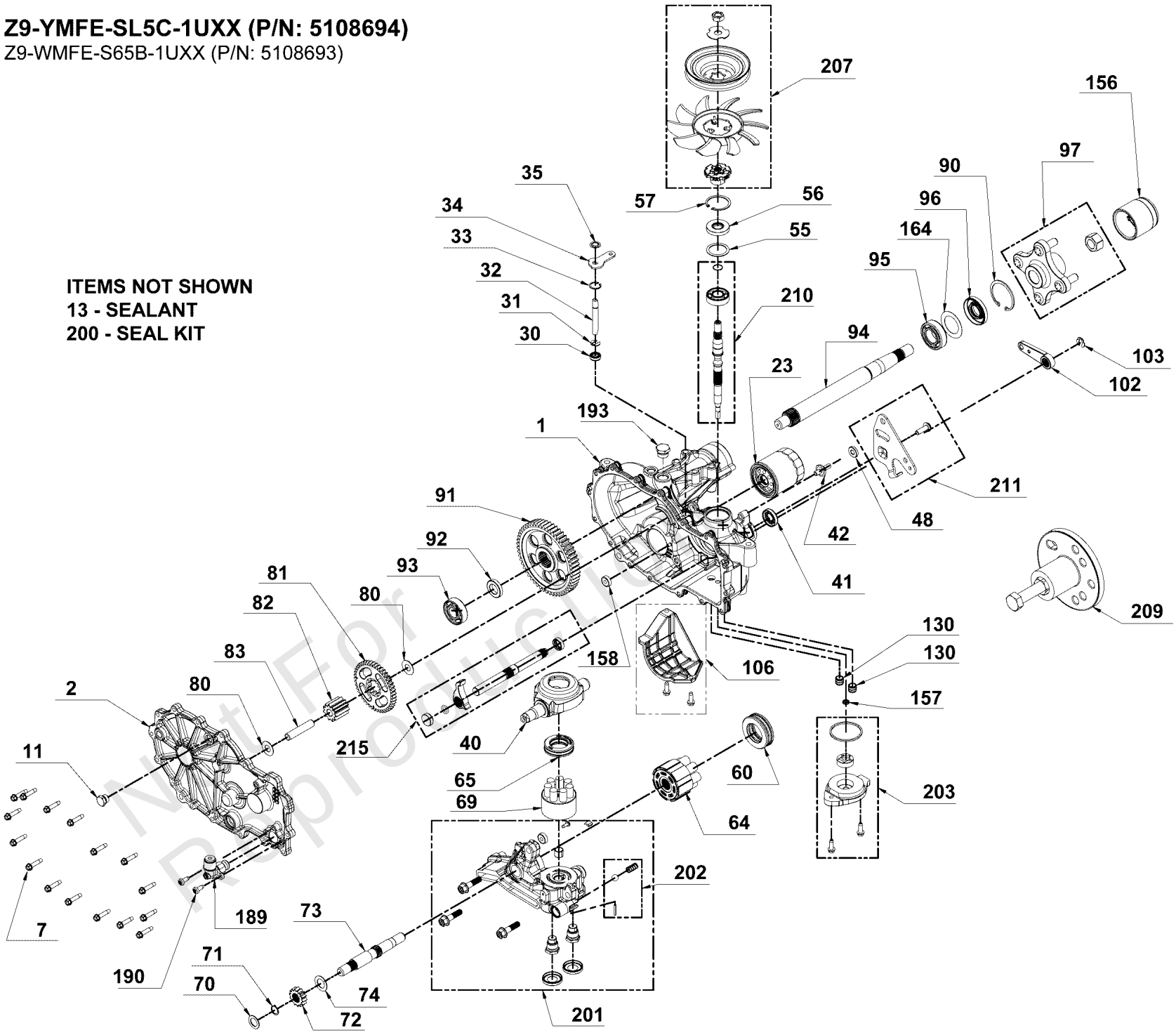
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901893

## Z9-YMFE-SL5C-1UXX (P/N: 5108694)

Z9-WMFE-S65B-1UXX (P/N: 5108693)

**ITEMS NOT SHOWN**
**13 - SEALANT**
**200 - SEAL KIT**

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## *Transaxle SERVICE PARTS - 5108694 and 5108693*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 190 | ----- | 2 | SCREW, PAN HEAD, 1/4-20 X .625 |
| 193 | ----- | 1 | PLUG, 3/4-16 |
| 200 | 5103589X2 | 1 | KIT, SEAL - HG# 73239 |
| 201 | ----- | 1 | KIT, CENTER SECTION, LH CHARGE |
| 202 | ----- | 1 | KIT, CHARGE RELIEF |
| 203 | 5101026X12 | 1 | KIT, CHARGE PUMP, ZT2800, ZT3100 |
| 207 | 5104580X1 | 1 | FAN & PULLEY KIT, ZT3400'S, STAND-ON |
| 209 | ----- | 1 | KIT, HUB PULLER |
| 210 | ----- | 1 | KIT, INPUT SHAFT |
| 211 | ----- | 1 | KIT, CONTROL ARM |
| 215 | ----- | 1 | KIT, OUTBOARD, RH ROT B / LH ROT A |

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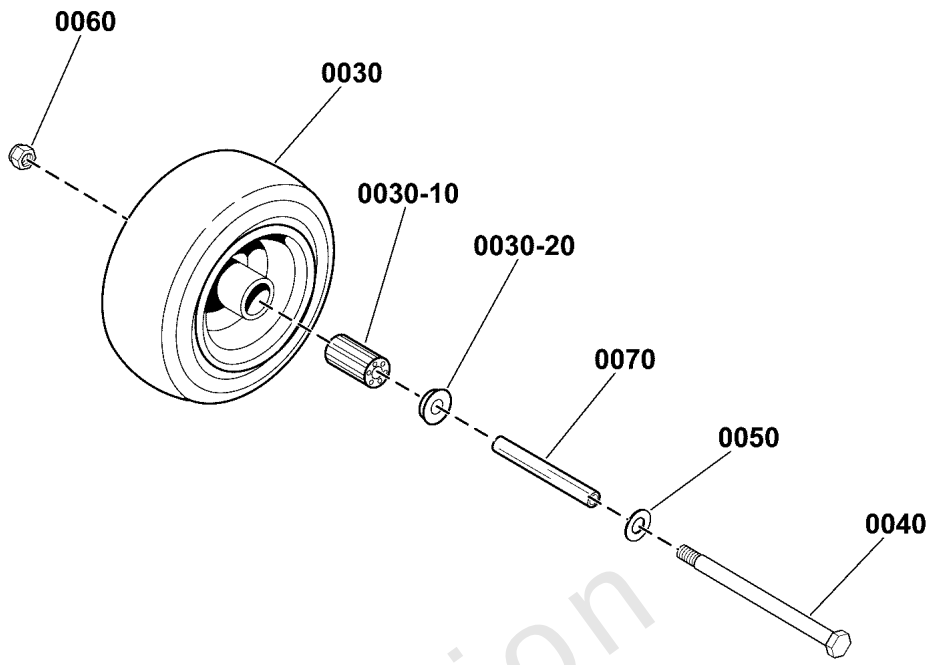
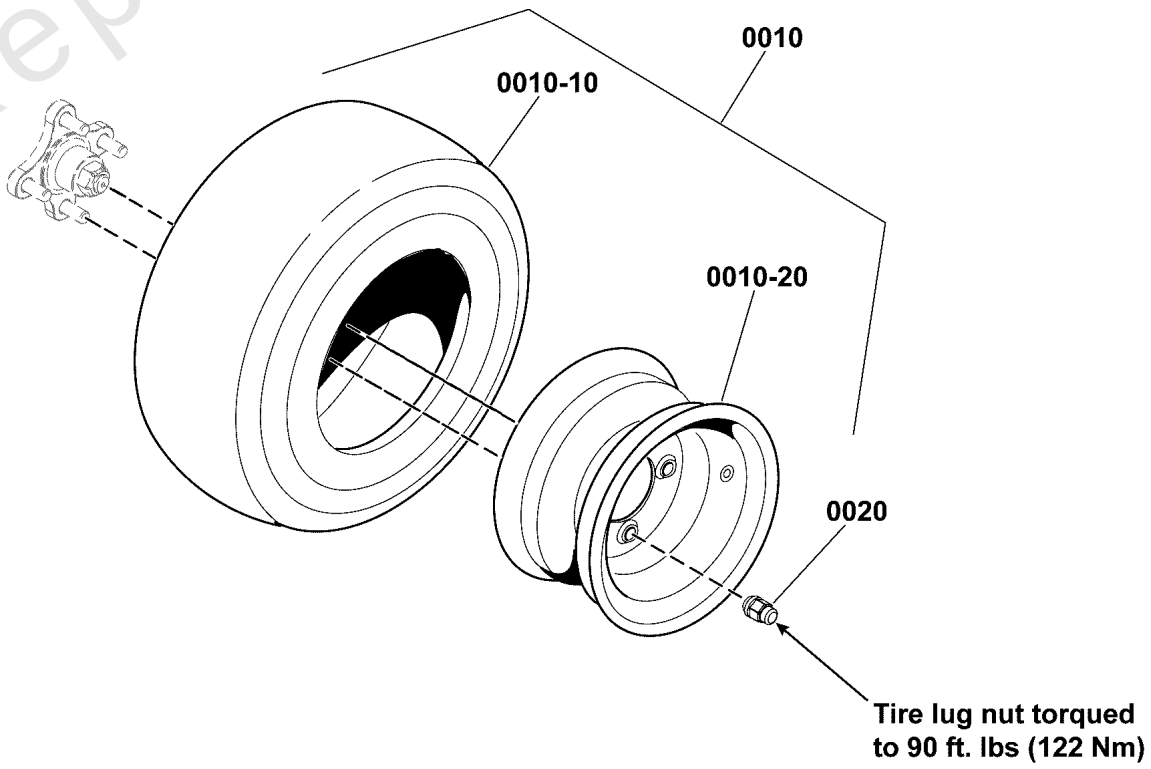
## Front Wheels & Tires




**Flat Free Tire**

## Rear Wheels & Tires




**Inflate to 15 psi (1,03 bar)**

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## *Wheel and Tire Group*

| REF NO | PART NO | QTY | DESCRIPTION |
|---|---|---|---|
| 0010 | 5109044 | 2 | TIRE ASM, 20 X 8-10, TURF MASTER, BLK |
| 0010-10 | 5101293X1 | 2 | TIRE, 20 X 8.00-10 NHS, 4 PR TURF MASTER<br>-(One per tire) |
| 0010-20 | ----- | 2 | WHEEL RIM<br>-(One per tire) |
| 0020 | ----- | 10 | LUG NUT, Black<br>-(Originally Black Lug nut - Replacement 5020601SM is silver in color). |
| 0020 | 5020601SM | 10 | NUT, 1/2-20, FOR WHEEL BOLT SILVER<br>-(Replacement 5020601SM is silver in color). |
| 0030 | 5109032 | 2 | TIRE ASM, 11 X 4 -5, FF / CB, BLK |
| 0030-10 | 5101418X1 | 2 | BEARING, CASTER WHEEL, 11 X 4.0 - 5 BEAD LOCK (SV)<br>-(One per tire) |
| 0030-20 | 5021043 | 4 | RETAINER, BEARING (TWO PER TIRE)(SV)<br>-(Two per tire) |
| 0040 | 5025017X56 | 2 | BOLT, HEX, 1/2-13 X 7, GD 8, YZ |
| 0050 | 5025158 | 2 | WASHER, 1/2 SAE |
| 0060 | 5025396 | 2 | NUT, Hex Flange, Nylock, 1/2-13 |
| 0070 | 5045996 | 2 | AXLE, Front Caster |

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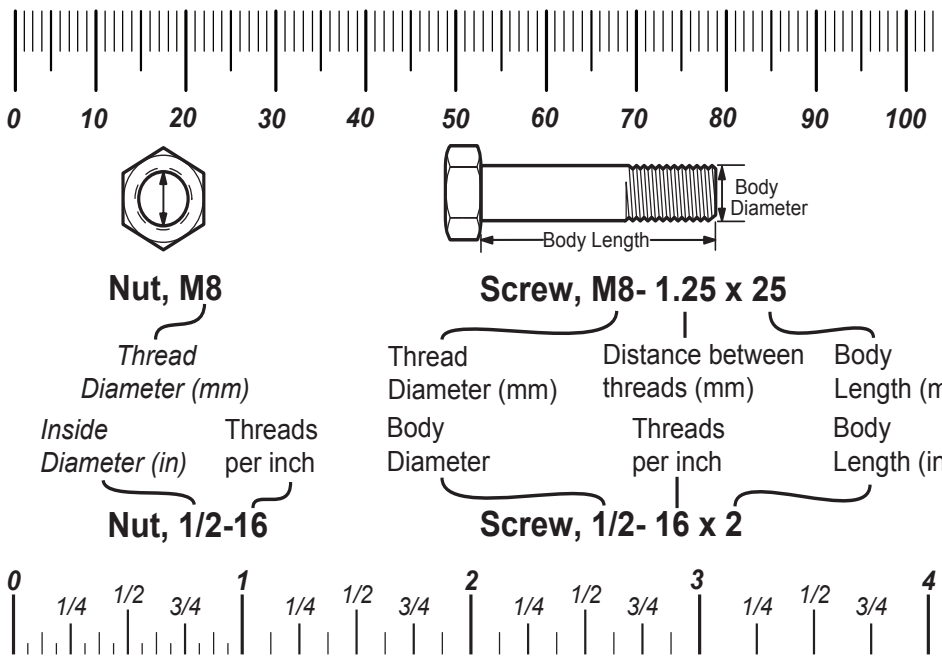
# Hardware Identification & Torque Specifications

## Torque Specification Chart

FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)

| Property Class | 5.6 Class 5.6 | | 8.8 Class 8.8 | | 10.9 Class 10.9 | | 12.9 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

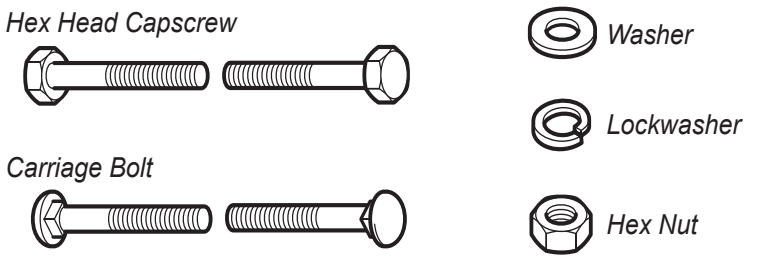
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)

| Hardware Grade | No Marks 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**

1. 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.
2. Recommended seating torque values for locknuts:
   a. for prevailing torque locknuts - use 65% of grade 5 torques.
   b. for flange whizlock nuts and screws - use 135% of grade 5 torques.
3. 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—22 mm

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