



Parts Manual

Mfg. No: 5901516

F160Z Series w/ 48" iCD Mower Deck
(F160ZBV2648)

5600031 - Kit, Trailer Hitch (IS600/IS700/IS2100/IS2600/IS5100/F160/F210).....	
5600609 - 48" iCD TURBO-Pro; 2-Bag Grass Collection System (50XT/150XT/F160).....	
5600779 - 48" iCD TURBO-Pro; 2-Bag Hard Top Grass Collection System.....	
5600582 - Mulch Kit for ZTR & WALK w/ 48" Deck - S/N: 2015355958 & Above.....	
5600891 - Roll Bar Mounted LED Headlight Kit.	

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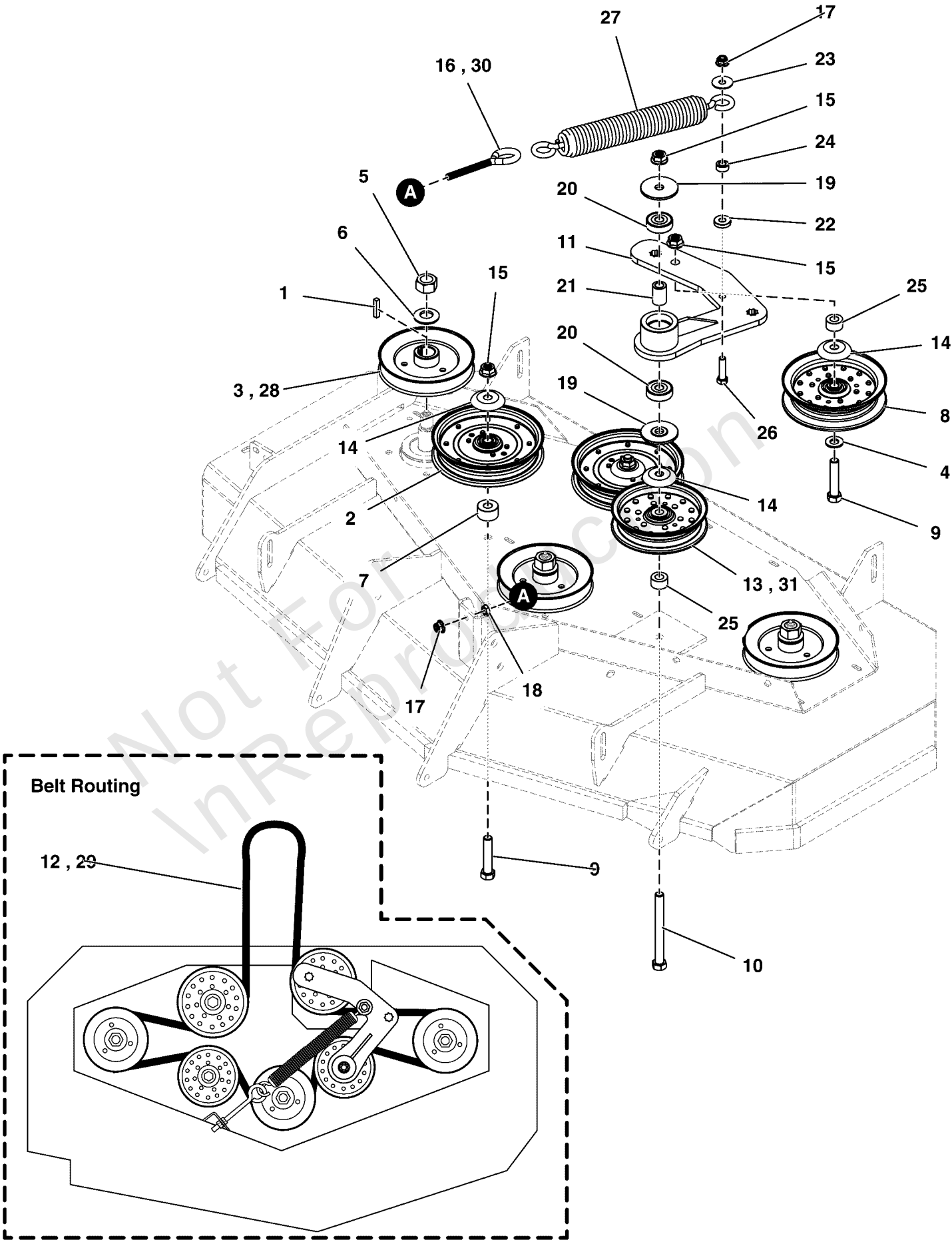
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48" & 52" Mower Deck - Pulleys, Belt, & Idler Arm S/N: 2017999044 & Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5303627A
5303628A



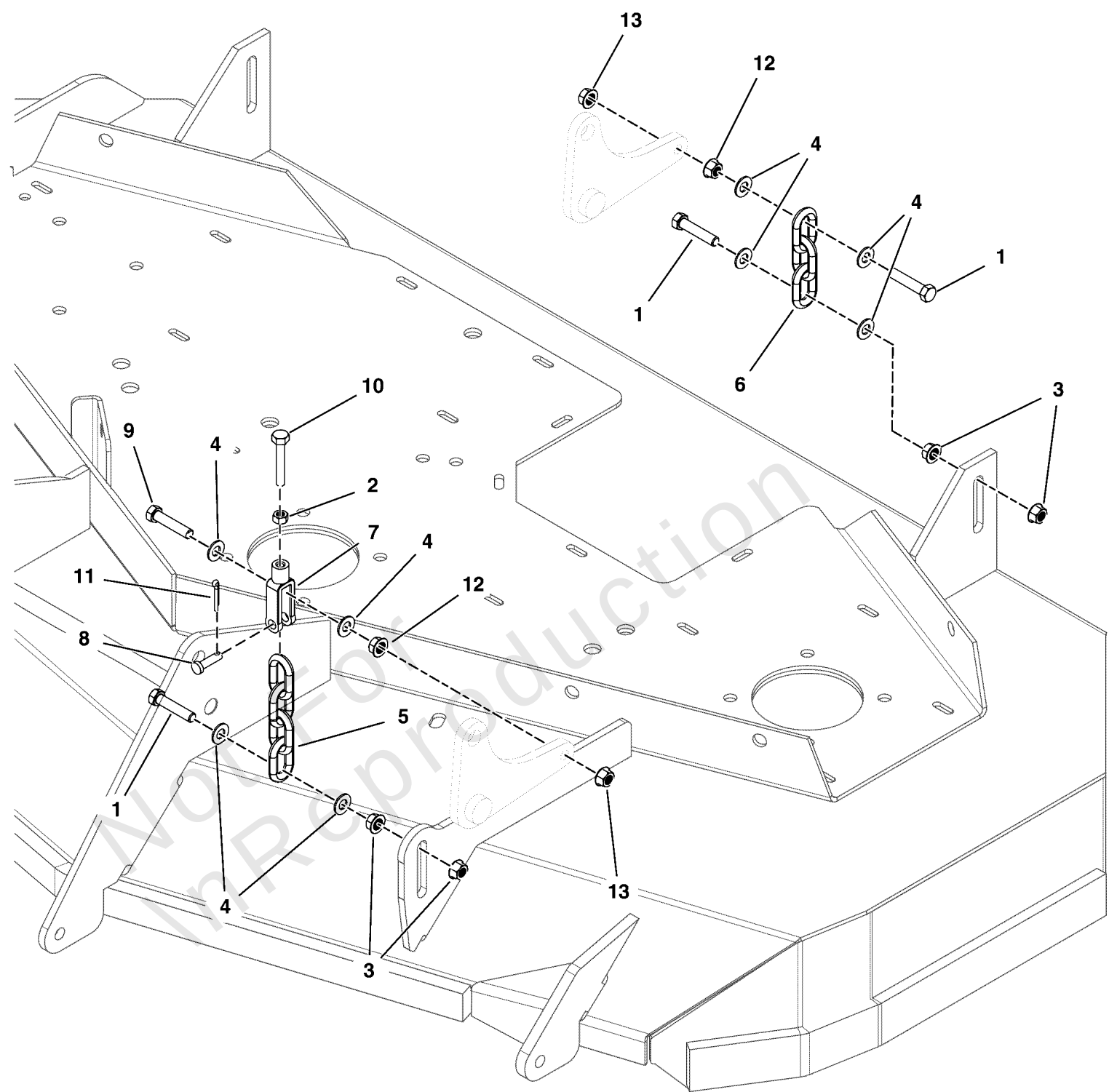
48" & 52" Mower Deck - Pulleys, Belt, & Idler Arm S/N: 2017999044 & Below

REF NO	PART NO	QTY	DESCRIPTION
1	5050407X10	3	KEY, 1/4 SQ X 1-1/4
2	-----	2	Replace with: Pulley #5104717 & Debris Shield #5105145
3	5023175	3	PULLEY, 5.540OB X .985ID, SINGLE B-SEC -(48" Mower Decks)
4	5025158	1	WASHER, 1/2 SAE
5	5025405	3	NUT, 3/4-16 HEX
6	5025406	3	WASHER, 3/4 BELLEVILLE
7	5047142	2	SPACER, .52 X 1.25 X .70, PM, CZ
8	-----	1	USE 5104716 PULLEY + 5105145 SHIELD
9	5025017X20	3	BOLT, 1/2-13 X 2-1/2" GD5 CZ
10	5025017X40	1	BOLT-1/2-13 X 5 GD5 CZ
11	5412572A	1	WELD, IDLER ARM - BLK
12	5103392	1	BELT, 5V, 147.40"EL, LRG ARAMID,WRPD, RC -(48" Mower Decks)
13	5101794	1	PULLEY, IDLER, 5" OD, 1"FACE, 5.75 FL -(48" Mower Decks)
14	5101103	4	SHIELD, PULLEY BEARING, CZ
15	5025396	4	NUT, Hex Flange, Nylock, 1/2-13
16	5023497	1	EYE BOLT, 3/8-16 X 5, 2.88THRD, 1EYE, CZ -(48" Mower Decks)
17	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
18	5025084	1	NUT, 3/8-16 HEX JAM
19	5104379	2	SPACER, IDLER ARM, 1/2 X 2.25
20	5104383	2	BEARING, 6203-1/2", SEALED
21	5104456	1	SPACER, .51 X .84 X 1.22, PM, CZ
22	5044960	1	SPACER, .39 X 1.00 X .25, PM, CZ
23	5025165	1	WASHER-3/8 FENDER
24	5044933	1	SPACER, .39 X .75 X .38, PM, CZ
25	5101162	2	SPACER, .52 X 1.00 X .56, PM, CZ
26	5025013X12	1	BOLT, 3/8-16 X 1-1/2" GD5 CZ
27	5104166	1	SPRING, EXT, 1.5ODX12.25X.234WIRE BLK
28	5101351	3	PULLEY, 5.926 OVER BALL -(52" Mower Decks)
29	5103872	1	BELT, 5V, 163.40"EL, LG ARAMID WRPD, RC -(52" Mower Decks)
30	5025441	1	EYE BOLT,3/8-16X4.13,2.33THRD,.75EYE,CZ -(52" Mower Decks)
31	-----	1	Replace with: Pulley #5104717 & Debris Shield #5105145 -(52" Mower Decks)

48" Mower Deck - Hanger Chains

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516



48" Mower Deck - Hanger Chains

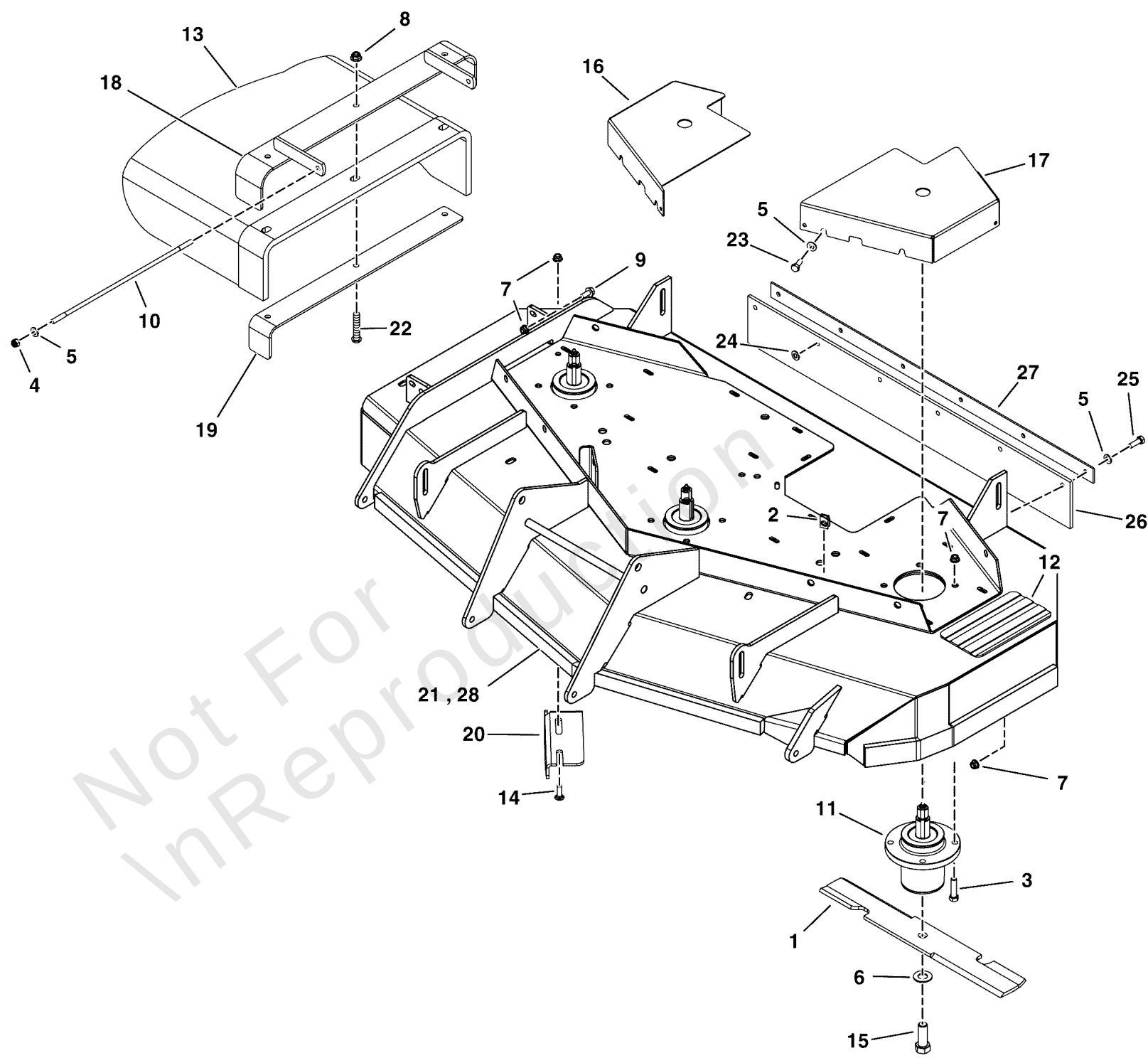
REF NO	PART NO	QTY	DESCRIPTION
1	5025013X14	6	BOLT, 3/8-16 X 1-3/4" GD5 CZ
2	5025388	2	NUT, 5/16-18 HEX JAM
3	5025128	10	NUT, 3/8-16 HEX SERRATED FLANGE
4	5025156	12	WASHER, 3/8 SAE
5	5050878X4	2	CHAIN, 5/16" GD30, 4 LINKS
6	5050878X3	2	CHAIN, 5/16 GD30, 3 LINKS
7	5100375	2	CLEVIS, 5/16-18, 3/8 PIN HOLE, CLR ZINC
8	5025214X9	2	PIN, CLEVIS, 3/8 X 1-1/8, PLATED
9	5025013X16	2	BOLT, 3/8-16 X 2, GD5, CZ
10	5025055X16	2	BOLT, 5/16-18 X 2 GD5 TFL
11	80002736	2	PIN, 3/32 X .750, COT, ZINC/CLEAR
12	5025084	4	NUT, 3/8-16 HEX JAM
13	5025394	4	NUT, 3/8-16 HEX NYLOCK FLANGE

48" Mower Deck - Housing, Covers, Spindles, & Blades S/N: 2017999044 & Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5303555A



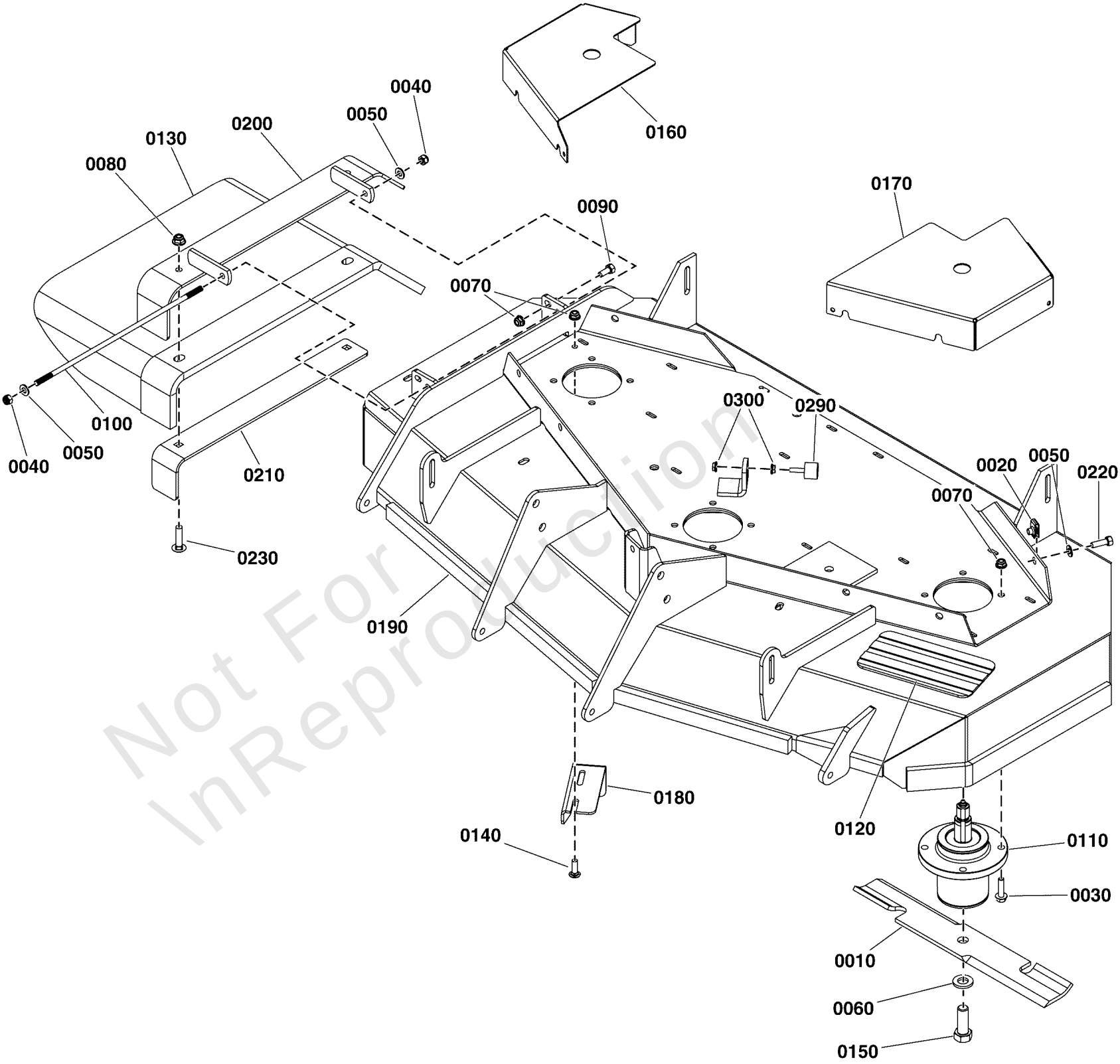
48" Mower Deck - Housing, Covers, Spindles, & Blades S/N: 2017999044 & Below

REF NO	PART NO	QTY	DESCRIPTION
1	5101986S	1	BLADES, SET OF THREE (3); 16.25 X.25 X 2.5, 1 X 3.5
2	5022308	6	BODY CLIP, 5/16-18-7GA MATERIAL
3	5023156	12	BOLT, 5/16-18 X 1 1/4 FLANGE
4	5025045	2	NUT, 5/16-24 HEX NYLON LOCK
5	5025155	14	WASHER, 5/16" SAE
6	5025477	3	WASHER, 5/8 GRADE 8, YZ
7	5025392	22	NUT, 5/16-18 HEX NYLOCK FLANGE
8	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
9	5025011X6	1	BOLT, 5/16-18 X 3/4 GD5
10	5042555	1	ROD, 5/16 X 13.75, TBE, CZ
11	5061095	3	ASSM, SPINDLE, LOW PROFILE
12	5101004	1	SAFETY WALK, 4.00 X 7.50
13	5413498	1	CHUTE, RUBBER DISCHARGE -(5104441)
14	5025145X6	3	BOLT, 5/16-18 X 3/4, CARRIAGE
15	5025320X14	3	BOLT, 5/8-11 X 1-3/4 GD8
16	5415939B	1	PLATE, DECK GUARD, RH - RED
17	5415940B	1	PLATE, DECK GUARD, LH - RED
18	5413403A	1	WELD, MOUNT, DISCHARGE CHUTE - BLK
19	5413401A	1	SUPPORT, DISCHARGE CHUTE - BLK
20	5401344A	1	PLATE, DEFLECTOR - BLK
21	5600917	1	DECK SHELL W/DECALS,48,F160Z,5413100B -(S/N: 2017360078 & Below)
22	5025146X12	2	BOLT, 3/8-16 X 1-1/2, CARRIAGE, GD5, CZ
23	5025011X8	6	BOLT, 5/16-18 X 1 GD5 YZ
24	5025498	6	5/16 PUSH-ON NUT RETAINER, STL, CZ
25	5025011X8	6	BOLT, 5/16-18 X 1 GD5 YZ
26	5102134	1	FLAP, RUBBER, 48"
27	5405520A	1	PLATE, SUPPORT, 48 - BLK
28	5600935	1	DECK SHELL W/DECALS,48,F160Z,5414848B -(S/N: 2017360079 & Above)

48" Mower Deck - Housing, Covers, Spindles, & Blades S/N: 2017999045 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516



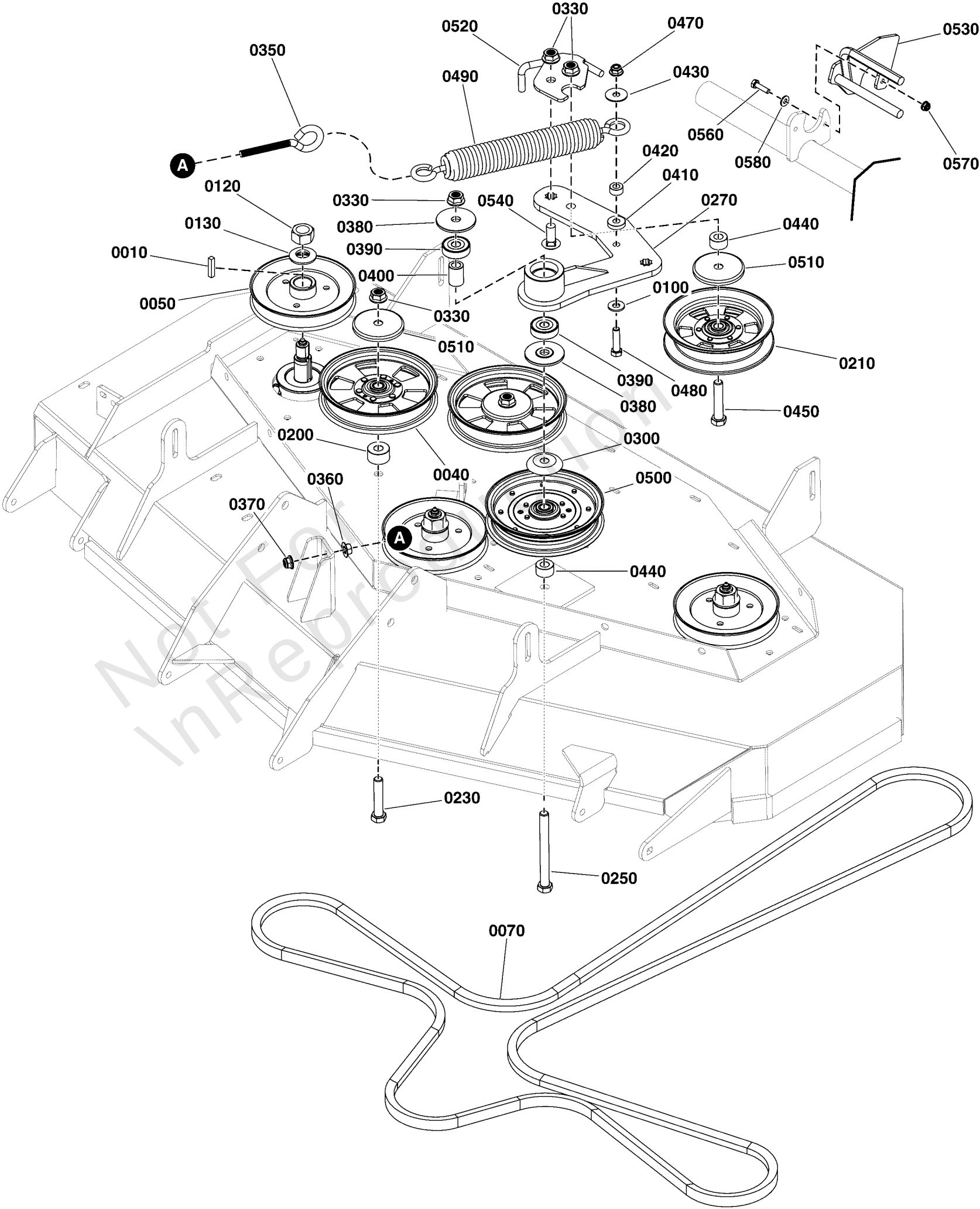
48" Mower Deck - Housing, Covers, Spindles, & Blades S/N: 2017999045 & Above

REF NO	PART NO	QTY	DESCRIPTION
0010	5101986S	3	BLADES, SET OF THREE (3); 16.25 X.25 X 2.5, 1 X 3.5 -(Set of 3 Blades)
0020	5022308	6	BODY CLIP, 5/16-18 7GA. MATERIAL
0030	5023156	12	BOLT, Flange Head, 5/16-18 x 1-1/4 -(Torque spindle mounting bolts to 17 ft-lbs (23 Nm))
0040	5025045	2	NUT, Hex, Nylon Lock, 5/16-24
0050	5025155	8	WASHER, 5/16" SAE
0060	5025477	3	WASHER, BLADE BOLT, 9/16" F436, CZ
0070	5025392	15	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0080	5025394	2	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0090	5025011X6	1	BOLT, 5/16-18 X 3/4 GD5
0100	5042555	1	ROD, 5/16 X 13.75, TBE, CZ
0110	5061095	3	SPINDLE, ASSM, ALUMINUM - 5.25
0120	5101004	1	SAFETY WALK, 4.00 X 7.50
0130	5413498	1	CHUTE, RUBBER DISCHARGE CHUTE (5104441)
0140	5025145X6	2	BOLT, 5/16-18 X 3/4, CARRIAGE, GD5, CZ
0150	5025320X14	3	BOLT, 5/8-11 X 1-3/4 GD8 -(Torque blade mounting bolts to 120 ft-lbs (163 Nm))
0160	5415939B	1	PLATE, DECK GUARD, RH - RED
0170	5415940B	1	PLATE, DECK GUARD, LH - RED
0180	5401344A	1	PLATE, DEFLECTOR - BLK
0190	5600935	1	DECK SHELL W/DECALS,48,F160Z,5414848B
0200	5413403A	1	WELD, MOUNT, DISCHARGE CHUTE - BLK
0210	5413401A	1	SUPPORT, DISCHARGE CHUTE - BLK
0220	5025011X8	6	BOLT, 5/16-18 X 1" GRD5 YZ
0230	5025146X12	2	BOLT, 3/8-16 X 1-1/2, CARRIAGE, GD5, CZ
0290	5105237	1	BUMPER, RUBBER, 1/4-20 X 7/8" STUD
0300	5025126	2	NUT, Hex, Serrated Flange, 1/4-20

48" Mower Deck - Pulleys, Belt, & Idler Arm S/N: 2017999045 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516



48" Mower Deck - Pulleys, Belt, & Idler Arm S/N: 2017999045 & Above

REF NO	PART NO	QTY	DESCRIPTION
0010	5050407X10	3	KEY, 1/4" SQ. X 1-1/4
0040	5104717	2	PULLEY, FLT IDLR, 6.0 X 1.0 X .50, CZ -(S/N: 2018095184 & Above)
0040	-----		Replace with: Pulley #5104717 & Debris Shield #5105145 -(S/N: 2018095183 & Below)(Refer to Note: *)
0050	5023175	3	PULLEY, 5.540OB X .985ID, SINGLE B-SEC
0070	5103392	1	BELT, 5V, 147.40"EL, LRG ARAMID,WRPD, RC
0100	5025156	1	WASHER, 3/8 SAE
0120	5025405	3	NUT, 3/4-16 Hex
0130	5025406	3	WASHER, 3/4 BELLEVILLE CL/ZC
0200	5047142	2	SPACER, .52 X 1.25 X .70, PM, CZ
0210	5104716	1	PULLEY,IDLER,BACKSIDE,NOSEAM 6.25ODX.5ID
0230	5025017X20	2	BOLT, 1/2-13 X 2-1/2" GD5 CZ
0250	5025017X40	1	BOLT, 1/2-13 X 5" GD5 YZ
0270	5415907A	1	WELD, IDLER ARM - BLK
0300	5101103	1	SHIELD, PULLEY BEARING, CZ
0330	5025396	5	NUT, Hex Flange, Nylock, 1/2-13
0350	5023497	1	EYE BOLT, 3/8-16 X 5, 2.88THRD, 1EYE, CZ
0360	5025394	1	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0370	5025084	1	NUT, 3/8-16 HEX JAM
0380	5104379	2	SPACER, IDLER ARM, 1/2 X 2.25
0390	5104383	2	BEARING, 6203-1/2", SEALED
0400	5104456	1	SPACER, .51 X .84 X 1.22, PM, CZ
0410	5044960	1	SPACER, .39 X 1.00 X .25, PM, CZ
0420	5044933	1	SPACER, .39 X .75 X .38, PM, CZ
0430	5025165	1	WASHER, 3/8" Fender
0440	5101162	2	SPACER, .52 X 1.00 X .56, PM, CZ
0450	5025017X20	1	BOLT, 1/2-13 X 2-1/2" GD5 CZ
0470	5025394	1	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0480	5025013X12	1	BOLT, 3/8-16 X 1-1/2" GD5 CZ
0490	5104166	1	SPRING, EXT, 1.5ODX12.25X.234WIRE BLK
0500	5101794	1	PULLEY, IDLER, 5" OD, 1" FACE, 5.75 FLANGE
0510	5105145	3	SHIELD, BEARING, 1/2 ID X 2-7/8 OD, CZ -(Refer to Note: **)
0520	5416230A	1	WELD, BELT GUIDE - BLK
0530	5416182A	1	WELD, CLUTCH BELT GUIDE
0540	5025324X10	1	BOLT, CARRIAGE 1/2-13 X 1-1/4 GD.5
0560	5025010X8	2	BOLT, 1/4-20 X 1" GD5 CZ
0570	5025391	2	NUT, 1/4-20 Hex Nylock Flange
0580	5025154	2	WASHER, 1/4 SAE

Footnotes:

Note: ** If replacing only the shield on the stationary pulleys on a machine in serial number range 2018095184 & Below that doesn't have updated pulleys; use shield # 5105145.

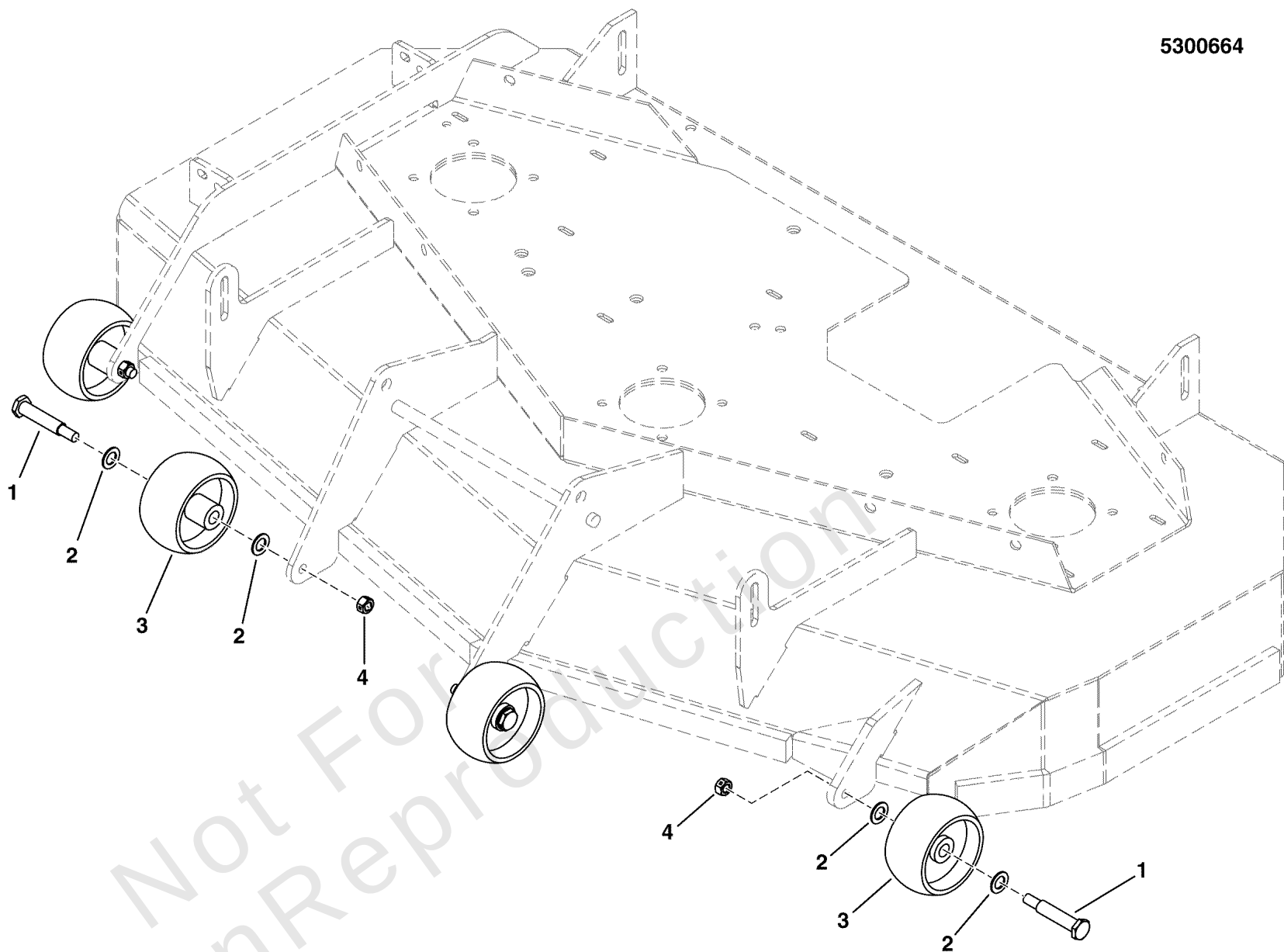
Note: * If replacing this pulley, use pulley #5104717 and shield # 5105145.

48" Mower Deck - Rollers

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5300664



48" Mower Deck - Rollers

REF NO	PART NO	QTY	DESCRIPTION
1	2108765	4	BOLT-WHEEL 3/8-16X2.781 .750 THRD
2	80003590	8	WASHER-0500(0.51IDX0.87ODX.06THK) BLK
3	1714760	4	WHEEL- 2.00 WIDE 3.88 DIA 0.531ID POLY
4	5025100	4	NUT, 3/8-16 HEX SIDE LOCK

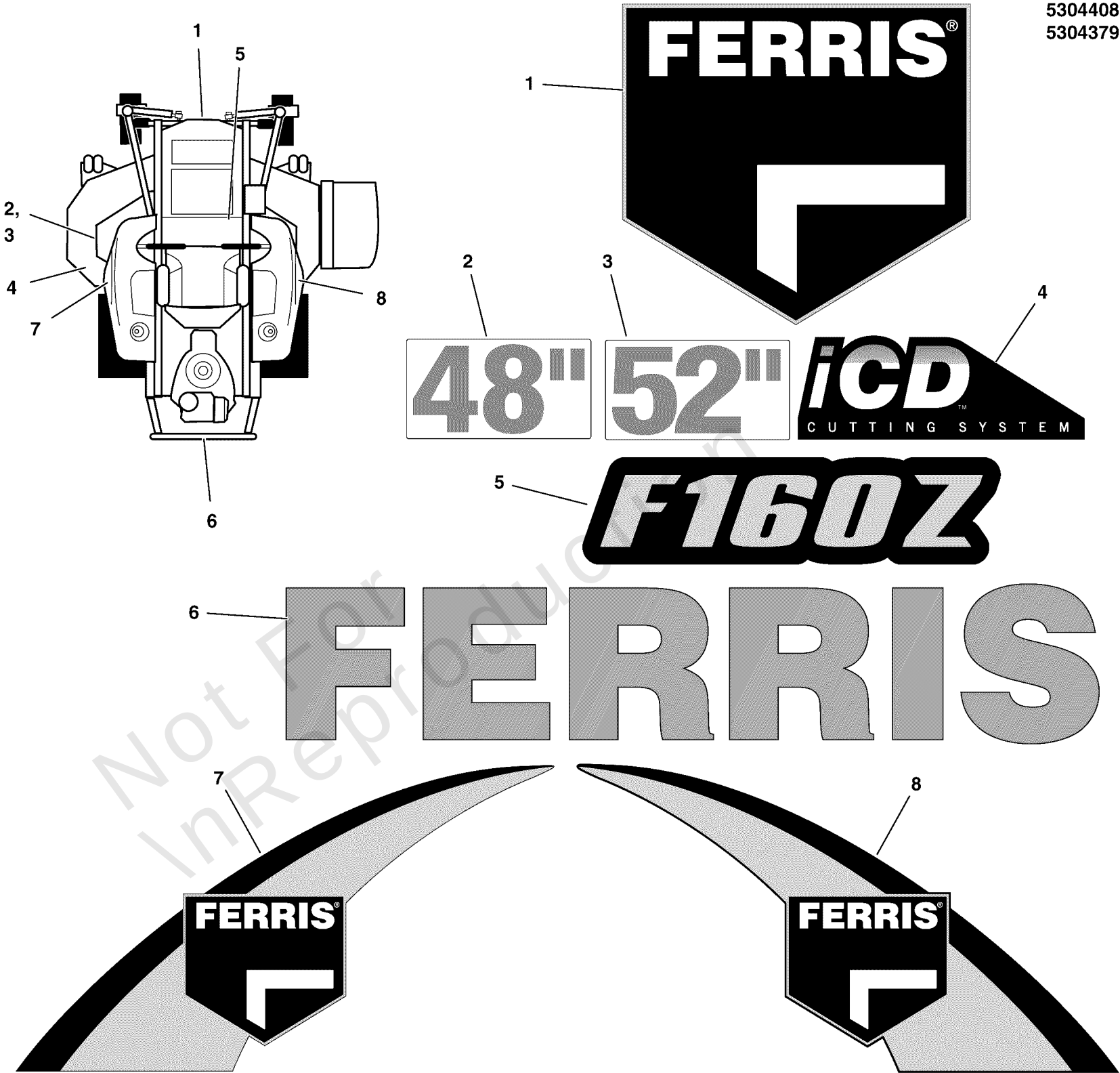
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Decal Group - Brand & Model

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5304408
5304379



Decal Group - Brand & Model

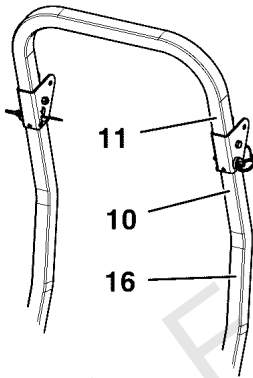
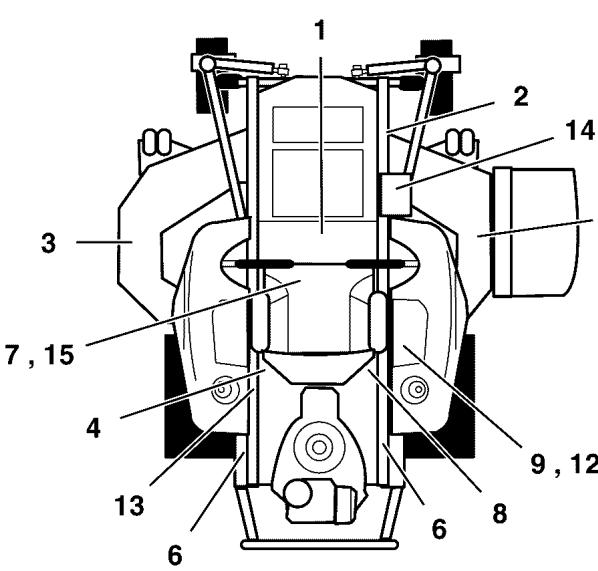
REF NO	PART NO	QTY	DESCRIPTION
1	5104724	1	DECAL, FERRIS LOGO, MEDIUM
2	5022811	1	DECAL, 48
3	5022812	1	DECAL, 52
4	5102210	1	DECAL, iCD CUTTING SYSTEM
5	5104777	1	DECAL, MODEL, F160Z
6	5103799	1	DECAL, FERRIS, 2.23" X 11.39"
7	5104753	1	DECAL, TANK, SML, LH, FERRIS
8	5104754	1	DECAL, TANK, SML, RH, FERRIS

Decal Group - Safety and Operation S/N: 4000906453 and Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5304289



WARNING

Avoid serious injury or death

- Read operator's manual before using this product.
- Do NOT operate this machine unless you are trained.
- Know the location and function of all controls.
- Keep safety devices (guards, shields, switches, etc.) in place and working.
- Remove objects that could be thrown by the blade.
- Be sure blades and engine are stopped before placing hands or feet near blades.
- When leaving machine, shut off, remove key and set parking brake.

Fire Hazard

Gasoline is flammable. Debris is combustible.

- Allow engine to cool for at least 3 minutes before refueling.
- Keep unit cleaned of debris.
- This equipment may create sparks that can start fires around dry vegetation. A spark arrester may be required. Contact local fire agencies for regulations relating to fire prevention requirements.

DANGER

Amputation hazard

Rotating blades cut off arms and legs.

- Stop the mower when children or others are near.
- Do not carry riders (especially children) even with the blades off. They may fall off or return for another ride when you are not expecting it.
- Look down, behind and to the side before changing directions.

Loss of control and roll-over hazard

Operating on slopes can be hazardous and cause loss of control and roll-overs.

- Avoid sudden turns or rapid speed changes.
- Reduce speed and use extreme caution on slopes.
- Go across slopes, NOT up and down.
- Do not operate on slopes over 15 degrees.
- If machine stops forward motion on a slope, stop the blades and drive slowly off the slope.

Water, retaining walls and drop-off hazards

Wheels dropping over edges may result in serious injury, death or drowning.

- Do NOT operate near water, retaining walls or drop-offs.
- Give yourself a minimum of two mower widths of clearance around these hazards.

Wet or soft slope hazard

Wet or soft slopes can cause sliding and loss of control.

- Do NOT operate on slopes when grass is wet.
- Do NOT operate on slopes when soil is soft (such as after heavy rains).

WARNING

PINCH POINT

To avoid injury from loaded spring, read operator's manual before removing spring.

DANGER

Amputation and thrown objects hazard

- Keep hands and feet away from deck.
- Do not operate mower unless discharge chute or entire grass catcher is in its proper place.

WARNING

Amputation and Pinch Point Hazard

To avoid injury from rotating parts, stay clear of parts and keep all shields and guards in place.

The operator's manual is available in Spanish. La manual del operador está disponible en Español.

WARNING

Avoid serious injury or death from rollover.

Do not operate without the rollbar installed and operational.

Ignition System (Gasoline Models)

This spark ignition system complies with Canadian standard ICES-002

HYDRAULIC OIL RESERVOIR

USE SAE 20W-50 MOTOR OIL

WARNING

AVOID SERIOUS INJURY OR DEATH FROM ROLL OVER:

Keep roll bar in the raised position and use seat belt.

THERE IS NO ROLL OVER PROTECTION WHEN THE ROLL BAR IS DOWN

Lower the roll bar only when necessary and NEVER remove it.

DO NOT use seat belt when the roll bar is down.

Raise the roll bar as soon as clearance permits.

DO NOT jump off if mower tips.

Read and follow all operating instructions and warnings in the operator's manual.

WARNING

LOW OVERHANGING OBSTACLES HAZARD

Check for overhead clearances before driving under any objects. Do NOT allow roll bar to contact low overhanging obstacles, such as tree branches and guide wires.

Belts & Blades

Tractor	
Pump Drive Belt	5102767

48" Mower	
Deck Drive Belt	5023297
Mower Blade	5101986

52" Mower	
Deck Drive Belt	5103395
Mower Blade	5101756

CAUTION

ROLL OVER PROTECTIVE STRUCTURE

To maintain operator protection and roll bar certification:

Replace a damaged roll bar, do NOT attempt to repair or modify.

Any alteration of the roll bar must be approved by the manufacturer.

DO NOT exceed the machine weight rating of the roll bar.

Decal Group - Safety and Operation S/N: 4000906453 and Below

REF NO	PART NO	QTY	DESCRIPTION
1	5103595	1	DECAL, MAIN SAFETY
2	5061245	1	DECAL, PINCH POINT
3	7101665	2	DECAL, DANGER DO NOT OPERATE W/O DEFLECT
4	5103184	2	DECAL, WARNING, HAND IN BELT, ENG ONLY -(Located Under the Seat)
5	5103619	1	DECAL, MANUAL AVAIL IN SPANISH
6	5100683	2	DECAL, WARNING, ROLL BAR
7	5104434	1	DECAL, TRANSAXLE RELEASE, ZT4400 -(Located Under the Seat)
8	5100342	1	DECAL, FUEL VALVE
9	5100280	1	DECAL, THROTTLE CONTROL
10	5104082	1	DECAL, WARNING, FLDG ROPS -(SV)
11	5100405	1	DECAL, WARNING OVERHANG, ROPS
12	5048970	1	DECAL, IGNITION SWITCH
13	5100957	1	DECAL, HYDRAULIC OIL, SAE 20W50 -(Located Under the Seat)
14	5103720	1	DECAL, CUT HEIGHT, S150XT
15	5103402	1	DECAL, BELT & BLADE, S150XT
16	5104083	1	DECAL, CAUTION, FLDG ROPS -(SV)

Decal Group - Safety and Operation S/N: 4000906454 and Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

WARNING

Avoid serious injury or death

- Read operator's manual before using this product.
- Do NOT operate this machine unless you are trained.
- Know the location and function of all controls.
- Keep safety devices (guards, shields, switches, etc.) in place and working.
- Remove objects that could be thrown by the blade.
- Be sure blades and engine are stopped before placing hands or feet near blades.
- When leaving machine, shut off, remove key and set parking brake.

Fire Hazard

Gasoline is flammable. Debris is combustible.

- Allow engine to cool for at least 3 minutes before refueling.
- Keep unit cleaned of debris.
- This equipment may create sparks that can start fires around dry vegetation. A spark arrester may be required. Contact local fire agencies for regulations relating to fire prevention requirements.

Amputation hazard

Rotating blades cut off arms and legs.

- Stop the mower when children or others are near.
- Do not carry riders (especially children) even with the blades off. They may fall off or return for another ride when you are not expecting it.
- Look down, behind and to the side before changing directions.

Loss of control and roll-over hazard

Operating on slopes can be hazardous and cause loss of control and roll-overs.

- Avoid sudden turns or rapid speed changes.
- Reduce speed and use extreme caution on slopes.
- Go across slopes, NOT up and down.
- Do not operate on slopes over 15 degrees.
- If machine stops forward motion on a slope, stop the blades and drive slowly off the slope.

Water, retaining walls and drop-off hazards

Wheels dropping over edges may result in serious injury, death or drowning.

- Do NOT operate near water, retaining walls or drop-offs.
- Give yourself a minimum of two mower widths of clearance around these hazards.

Wet or soft slope hazard

Wet or soft slopes can cause sliding and loss of control.

- Do NOT operate on slopes when grass is wet.
- Do NOT operate on slopes when soil is soft (such as after heavy rains).

WARNING

PINCH POINT

To avoid injury from loaded spring, read operator's manual before removing spring.

DANGER

Amputation and thrown objects hazard

- Keep hands and feet away from deck.
- Do not operate mower unless discharge chute or entire grass catcher is in its proper place.

WARNING

Amputation and Pinch Point Hazard

To avoid injury from rotating parts, stay clear of parts and keep all shields and guards in place.

The operator's manual is available in Spanish. La manual del operador está disponible en Español.

WARNING

Avoid serious injury or death from rollover.

Do not operate without the rollbar installed and operational.

Ignition System (Gasoline Models)

This spark ignition system complies with Canadian standard ICES-002.

HYDRAULIC OIL RESERVOIR

USE SAE 20W-50 MOTOR OIL

WARNING

AVOID SERIOUS INJURY OR DEATH FROM ROLL OVER:

Keep roll bar in the raised position and use seat belt.

THERE IS NO ROLL OVER PROTECTION WHEN THE ROLL BAR IS DOWN

Lower the roll bar only when necessary and NEVER remove it.

DO NOT use seat belt when the roll bar is down.

Raise the roll bar as soon as clearance permits.

DO NOT jump off if mower tips.

Read and follow all operating instructions and warnings in the operator's manual.

WARNING

LOW OVERHANGING OBSTACLES HAZARD

Check for overhead clearances before driving under any objects. Do NOT allow roll bar to contact low overhanging obstacles, such as tree branches and guide wires.

CAUTION

ROLL OVER PROTECTIVE STRUCTURE

To maintain operator protection and roll bar certification:

Replace a damaged roll bar, do NOT attempt to repair or modify.

Any alteration of the roll bar must be approved by the manufacturer.

DO NOT exceed the machine weight rating of the roll bar.

14

INCHES () = CM

5" (12.7)

+3/4" (1.9)

+1/2" (1.3)

+1/4" (0.6)

4" (10.2)

3" (7.6)

2" (5.1)

1-1/2" (3.8)

Belts & Blades

Tractor	
Pump Drive Belt	5102767

48" Mower	
Deck Drive Belt	5023297
Mower Blade	5101986

52" Mower	
Deck Drive Belt	5103395
Mower Blade	5101756

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28-May-2020

Decal Group - Safety and Operation S/N: 4000906454 and Above

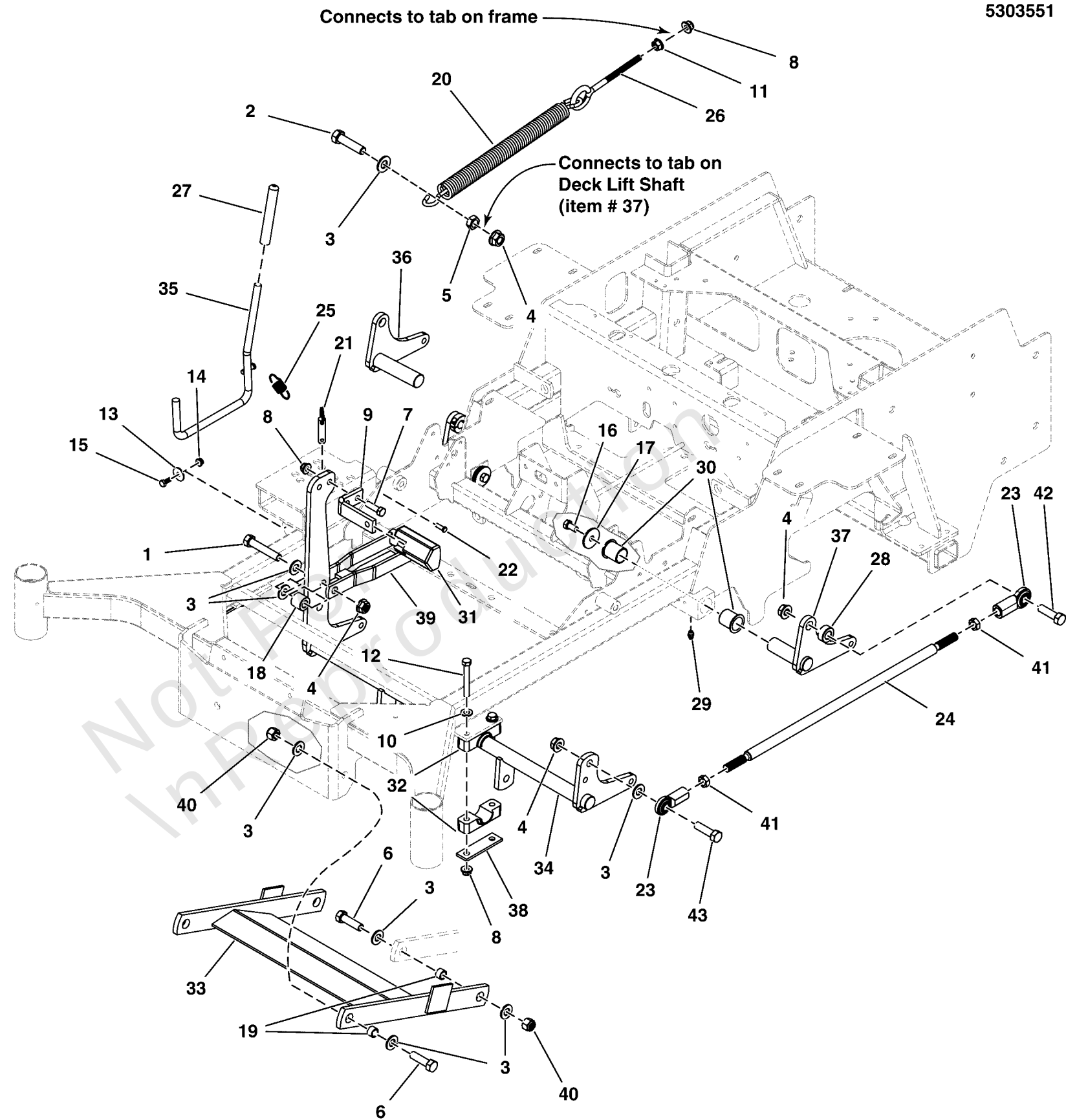
REF NO	PART NO	QTY	DESCRIPTION
1	5103595	1	DECAL, MAIN SAFETY
2	5061245	1	DECAL, PINCH POINT
3	7101665	2	DECAL, DANGER DO NOT OPERATE W/O DEFLECT
4	5103184	2	DECAL, WARNING, HAND IN BELT, ENG ONLY -(Located Under the Seat)
5	5103619	1	DECAL, MANUAL AVAIL IN SPANISH
6	5100683	2	DECAL, WARNING, ROLL BAR
7	5104434	1	DECAL, TRANSAXLE RELEASE, ZT4400 -(Located Under the Seat)
8	5100342	1	DECAL, FUEL VALVE
9	5100280	1	DECAL, THROTTLE CONTROL
10	5104082	1	DECAL, WARNING, FLDG ROPS -(SV)
11	5100405	1	DECAL, WARNING OVERHANG, ROPS
12	5048970	1	DECAL, IGNITION SWITCH
13	5100957	1	DECAL, HYDRAULIC OIL, SAE 20W50 -(Located Under the Seat)
14	5103720	1	DECAL, CUT HEIGHT, S150XT
15	5103402	1	DECAL, BELT & BLADE, S150XT
16	5104083	1	DECAL, CAUTION, FLDG ROPS -(SV)

Deck Lift Group S/N: 2017954955 & Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5303551



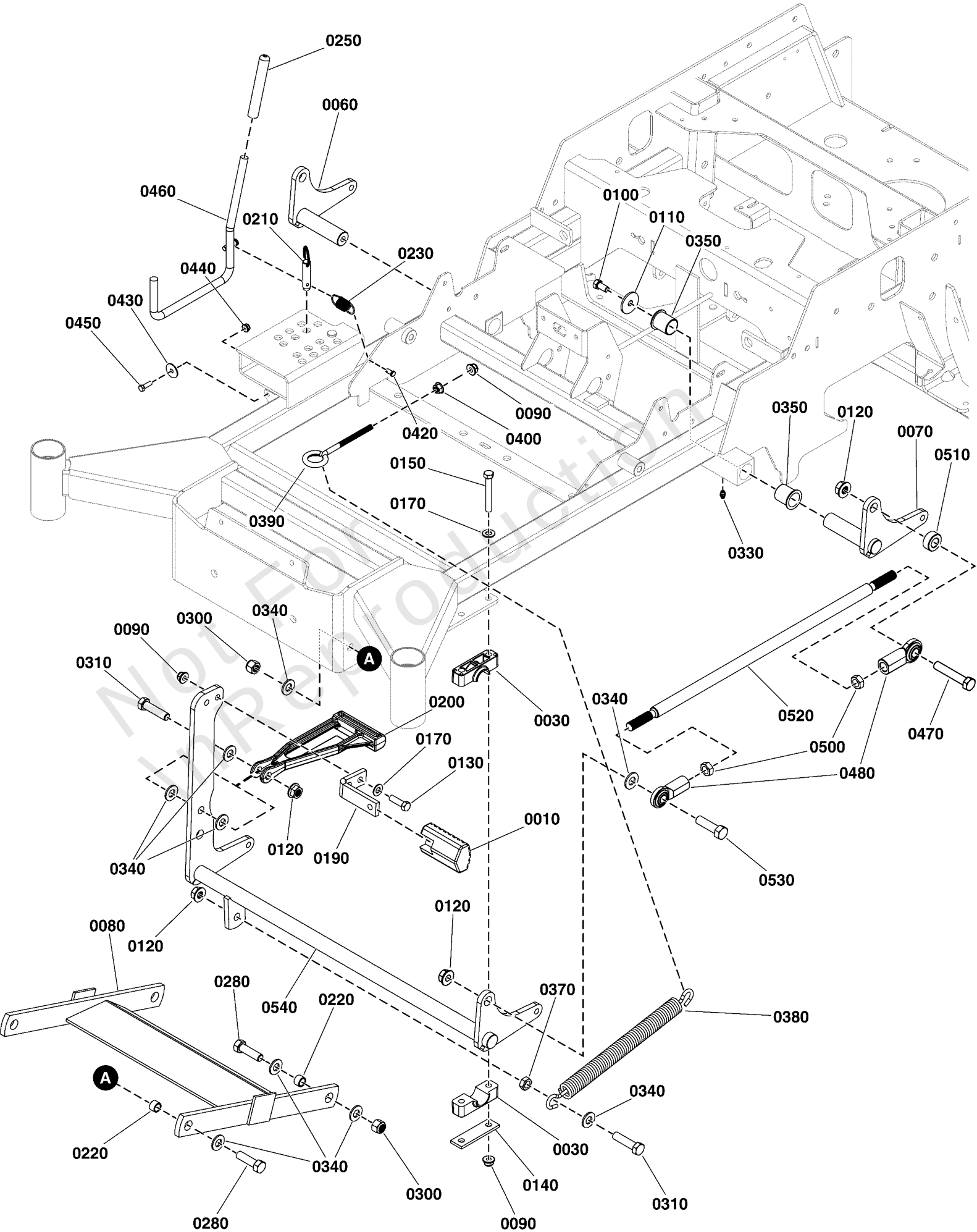
Deck Lift Group S/N: 2017954955 & Below

REF NO	PART NO	QTY	DESCRIPTION
1	5025017X22	1	BOLT, 1/2-13 X 2-3/4 GD5 CZ
2	5025017X16	1	BOLT, 1/2-13 X 2" GD5 CZ
3	5025158	15	WASHER, 1/2 SAE
4	5025396	6	NUT, Hex Flange, Nylock, 1/2-13
5	5025301	1	NUT, Hex, Jam, 1/2-13
6	5025018X14	4	BOLT, 1/2-20 X 1-3/4" GD8 CZ
7	5025013X10	2	BOLT, 3/8-16 X 1-1/4" GD5 CZ
8	5025394	7	NUT, 3/8 - 16 HEX NYLOCK FLANGE
9	5061569A	1	PEDAL, FOOT - BLK
10	5025156	4	WASHER, 3/8 SAE
11	5025128	1	NUT, 3/8-16 Hex Large Serrated Flange
12	5025013X22	4	BOLT, 3/8-16 X 2-3/4" GD5 CZ
13	5025288	2	WASHER, 1/4" Fender
14	5025391	2	NUT, 1/4-20 Hex Nylock Flange
15	-----	2	HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR
16	5025443	2	BOLT, 3/8-16 X 3/4, PLT W/PATCH
17	5100548	2	WASHER, .390 X 1.50 X .109, YZ
18	5044673	1	SPACER, .52 X 1.00 X .88, PM, CZ
19	5020870	4	INSERT, Bearing
20	5023355	1	SPRING-EXT, 1.00 ODX13.25LGX.177WR, BLK
21	5023498	1	PIN, HITCH, 1/2 X 2.00 OAL, YP
22	5025212X4	1	PIN, CLEVIS, 1/4 X 1/2, PLATED
23	1702779	4	JOINT-BALL .500-20 THD .500ID, CLR ZINC
24	5104054	2	ROD, DECK LIFT, 1/2-20 X 20.00, CZ
25	5010213	1	SPRING-EXT, .740 ODX2.025LGX.072WR, BLK
26	5021811	1	EYE BOLT, 3/8-16 X 8, 3THRD, 1EYE, CZ
27	5021880	1	GRIP, FOAM, .475 X 4.35 X .095
28	5045023	2	SPACER, .52 X 1.00 X .44, CZ
29	5020095	2	GREASE FITTING, 1/4-28 Straight
30	5023343	4	BUSHING, 1.00 X 1.13 X 1.38, Plastic
31	5104262	1	PEDAL, Rubber
32	5100634	4	PIVOT BLOCK, PLASTIC
33	5412008A	1	WELD, Deck Stabilizer - Blk
34	5410999B	1	WELD, DECK LIFT SHAFT, 150XT - RED
35	5410317A	1	WELD, Rod, Deck Lift - BLK
36	5401672A	1	WELD, DECK LIFT LEVER, RH - BLK
37	5401671A	1	WELD, DECK LIFT LEVER, LH - BLK
38	5403925A	2	PLATE, PIVOT BLOCK SUPPORT - BLK
39	5410315A	1	WELD, DECK HEIGHT LINK - BLK
40	5025098	4	NUT, Hex, Nylon Lock, 1/2-20
41	5025089	4	NUT, 1/2-20 Hex Jam
42	5025017X18	2	BOLT, 1/2-13 X 2-1/4" GD5 CZ
43	5025017X14	2	BOLT, 1/2-13 X 1-3/4 GD5 CZ

Deck Lift Group S/N: 2017954956 & Above

Note: Unless noted otherwise, use the standard torque specifications

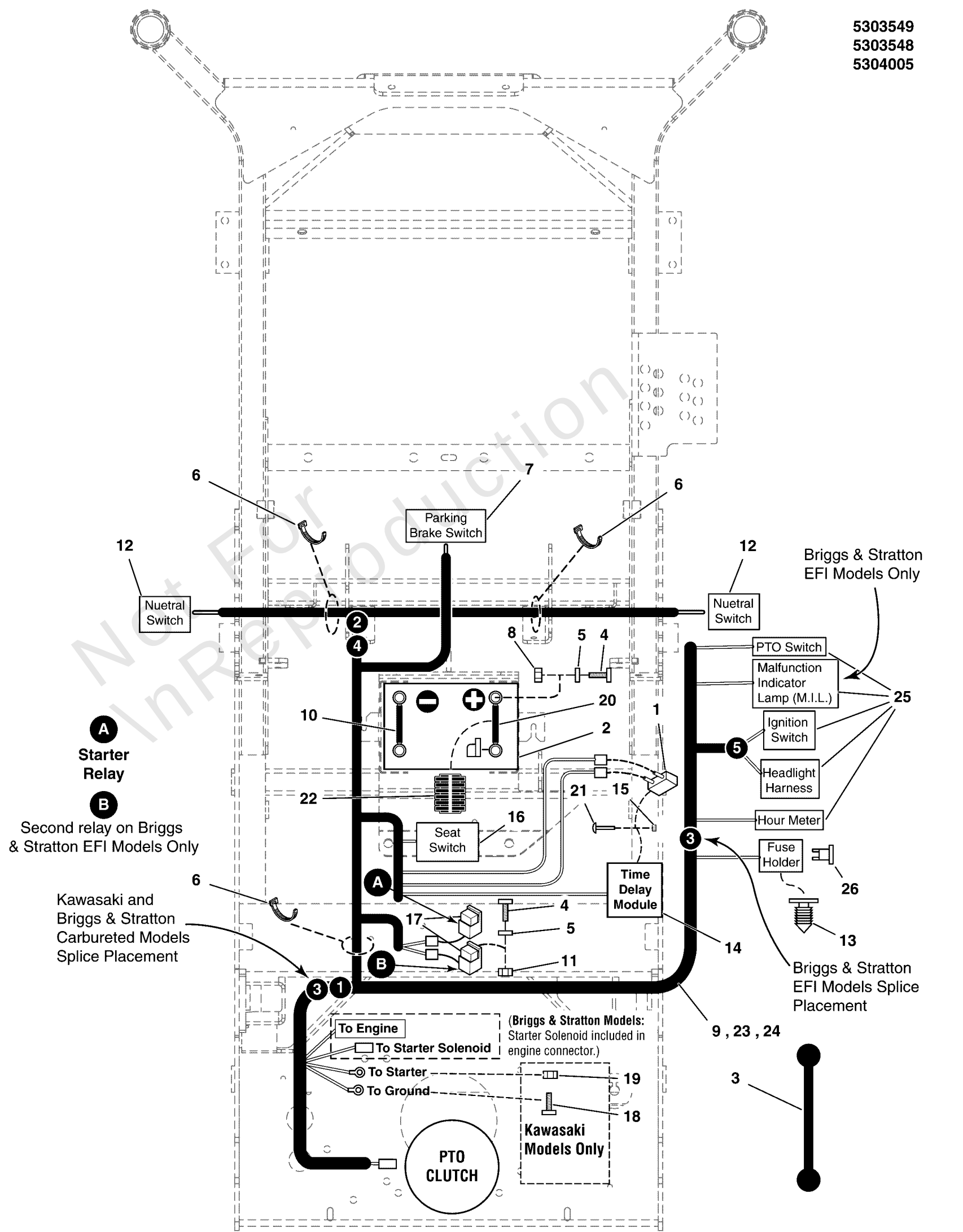
Mfg. No: 5901516



Deck Lift Group S/N: 2017954956 & Above

REF NO	PART NO	QTY	DESCRIPTION
0010	5104262	1	PEDAL, Rubber
0030	5100634	4	PIVOT BLOCK, PLASTIC
0060	5401672A	1	WELD, DECK LIFT LEVER, RH - BLK
0070	5401671A	1	WELD, DECK LIFT LEVER, LH - BLK
0080	5412008A	1	WELD, Deck Stabilizer - Blk
0090	5025394	7	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0100	5025443	2	BOLT, 3/8-16 X 3/4, PLT W/PATCH
0110	5100548	2	WASHER, .390 X 1.50 X .109, YZ
0120	5025396	6	NUT, Hex Flange, Nylock, 1/2-13
0130	5025013X10	2	BOLT, 3/8-16 X 1-1/4" GD5 CZ
0140	5403925A	2	PLATE, PIVOT BLOCK SUPPORT - BLK
0150	5025013X22	4	BOLT, 3/8-16 X 2-3/4" GD5 CZ
0170	5025156	6	WASHER, 3/8 SAE
0190	5061569A	1	PEDAL, FOOT - BLK
0200	5104133	1	LINK, DECK LIFT, CAST IRON
0210	5023498	1	PIN, HITCH, 1/2 X 2.00 OAL, YP
0220	5020870	4	INSERT, Bearing
0230	5010213	1	SPRING-EXT, .740 ODX2.025LGX.072WR, BLK
0250	5021880	1	GRIP, FOAM, .475 X 4.35 X .095
0280	5025018X14	4	BOLT, 1/2-20 X 1-3/4" GD8 CZ
0300	5025098	4	NUT, Hex, Nylon Lock, 1/2-20
0310	5025017X16	2	BOLT, 1/2-13 X 2" GD5 CZ
0330	5020095	2	GREASE FITTING, 1/4-28 Straight
0340	5025158	14	WASHER, 1/2 SAE
0350	5023343	4	BUSHING, 1.00 X 1.13 X 1.38, Plastic
0370	5025301	1	NUT, Hex, Jam, 1/2-13
0380	5023355	1	SPRING-EXT, 1.00 ODX13.25LGX.177WR, BLK
0390	5021811	1	EYE BOLT, 3/8-16 X 8, 3THRD, 1EYE, CZ
0400	5025128	1	NUT, 3/8-16 Hex Large Serrated Flange
0420	5025212X4	1	PIN, CLEVIS, 1/4 X 1/2, PLATED
0430	5025288	2	WASHER, 1/4" Fender
0440	5025391	2	NUT, 1/4-20 Hex Nylock Flange
0450	-----	2	HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR
0460	5410317A	1	WELD, Rod, Deck Lift - BLK
0470	5025017X18	2	BOLT, 1/2-13 X 2-1/4" GD5 CZ
0480	1702779	4	JOINT-BALL .500-20 THD .500ID, CLR ZINC
0500	5025089	4	NUT, 1/2-20 Hex Jam
0510	5045023	2	SPACER, .52 X 1.00 X .44, CZ
0520	5104054	2	ROD, DECK LIFT, 1/2-20 X 20.00, CZ
0530	5025017X14	2	BOLT, 1/2-13 X 1-3/4 GD5 CZ
0540	5410999B	1	WELD, DECK LIFT SHAFT, 150XT - RED

5303549
5303548
5304005



Electrical Group - S/N: 2017724860 & Below

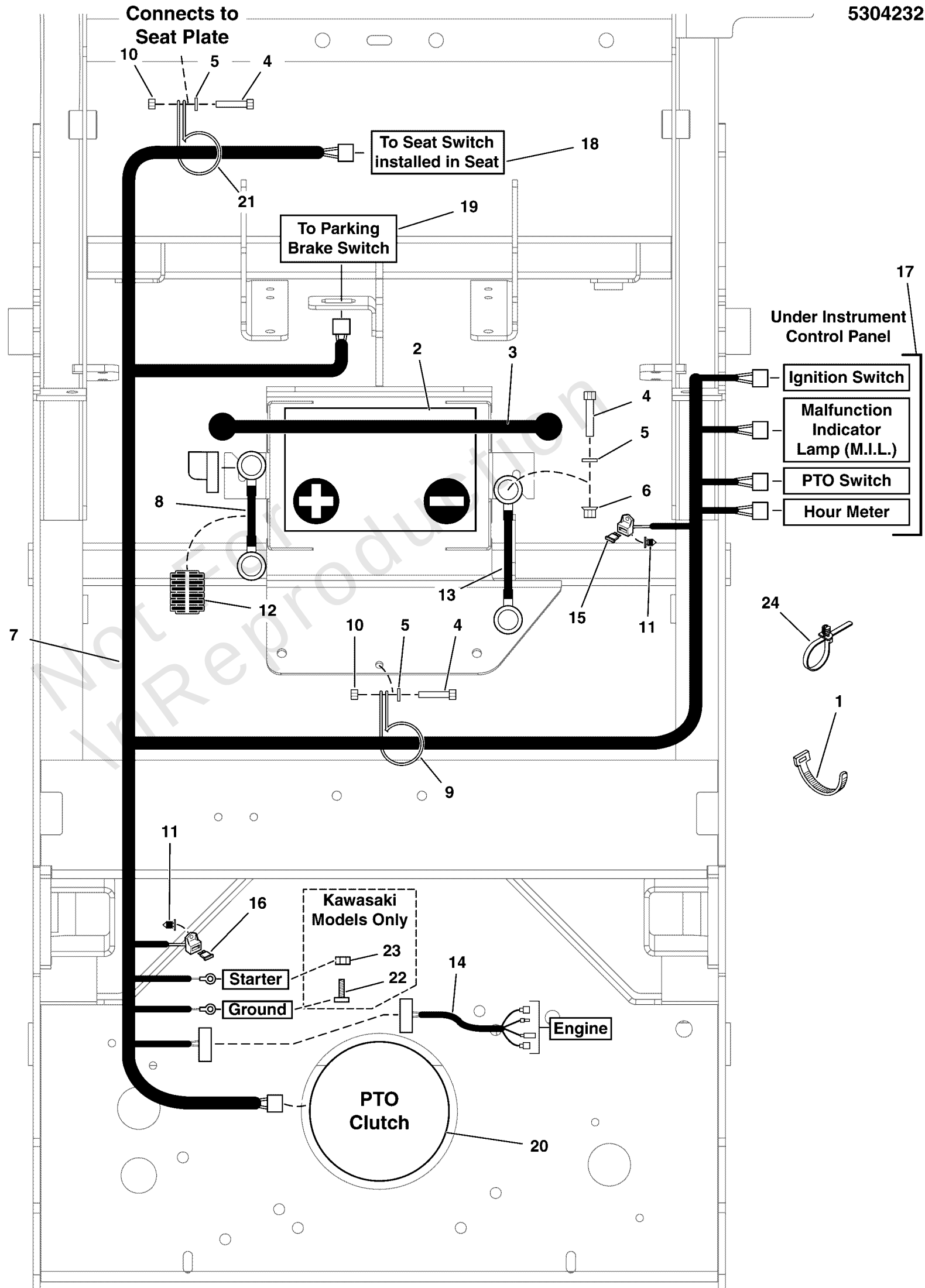
REF NO	PART NO	QTY	DESCRIPTION
1	1665238	1	BREAKER-CIRCUIT 12VOLT 20AMPS W/TAB
2	-----	1	BATTERY, WET (BCIU1, 350 CCA)
3	1722009	1	STRAP-BLACK RUBB
4	5025010X6	3	BOLT, 1/4-20 X 3/4 GD5 YZ
5	5025154	3	WASHER, 1/4 SAE
6	5021029	10	TIE, SELF-LOCKING, 12"
7	7022886	1	SWITCH, DP NO/NC SNAP-IN
8	5025126	2	NUT, 1/4-20 HEX SERR. FLANGE
9	5414201	1	WIRE HARNESS, S150XT, KAWI -(Kawasaki Engine Equipped Models Only)
10	5101396	1	BATTERY CABLE, NEG, 30, 1/4-5/16
11	5025391	1	NUT, 1/4-20 HEX NYLOCK FLANGE
12	5101280	2	SWITCH, LOW PROF, NC/NO
13	5103761	1	FIR TREE MOUNT, PACKARD
14	5023310	1	MODULE, TIME DELAY -(Kawasaki and Briggs & Stratton Carbureted Models Only)
15	5025271	3	NUT, #10-24 HEX NYLON LOCK -(Qty: 2 - EFI engines)
16	5101589	1	SWITCH, PLUNGER, NO, SINGLE POLE SNAP-IN
17	5021766	1	RELAY, 12V, 40A -(Qty: 2 - EFI engines)
18	5025249	1	BOLT, M8-1.25 X 20MM GD8.8 -(Kawasaki Engine Equipped Models Only)
19	5025536	1	NUT, HEX, M8-1.25, CZ, GD 8.8 -(Kawasaki Engine Equipped Models Only)
20	5044876	1	BATTERY CABLE, POS, 35, 1/4-5/16
21	5025179X6	3	SCREW, #10-24 X 3/4 ROUND PHILLIPS -(Qty: 2 - EFI engines)
22	5050927X30	1	WIRE LOOM, 3/8 ID X 30 IN
23	5414200	1	WIRE HARNESS, S150XT, B&S - VANG -(Briggs & Stratton Carbureted Engine Equipped Models Only)
24	5414199	1	WIRE HARNESS, S150XT, B&S - VANG EFI -(Briggs & Stratton EFI Engine Equipped Models Only)
25	-----	1	SEE INSTRUMENT CONTROL PANEL GROUP
26	5101935	1	FUSE, ATO-15 (15 AMP) -(SV)

Electrical Group - S/N: 2017724861 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5304232



Electrical Group - S/N: 2017724861 & Above

REF NO	PART NO	QTY	DESCRIPTION
1	5021029	10	TIE, SELF-LOCKING, 12"
2	-----	1	BATTERY, CE, 12 VOLT 340 CCA - 11U1L
3	1722009	1	STRAP, BATTERY, 14 LONG, Rubber
4	5025010X6	7	BOLT, 1/4"-20 X 3/4" GD5 YZ
5	5025154	7	WASHER, 1/4 SAE
6	5025126	6	NUT, Hex, Serrated Flange, 1/4-20
7	5416015	1	WIRE HARNESS, MAIN, LG, ZTR -(S/N: 2017954955 & Below)
7	5105535	1	HARNESS, Wiring, Large ZTR -(S/N: 2017954956 & Above)
8	5044876	1	BATTERY CABLE, POS, 35, 1/4-5/16
9	5021500	1	CLAMP, VINYL INSULATED, 1.00
10	5025391	1	NUT, 1/4-20 Hex Nylock Flange
11	5103761	2	FIR TREE MOUNT, PACKARD
12	5050927X30	1	WIRE LOOM, 3/8 ID X 30 IN
13	5101396	1	CABLE, BATTERY, NEG, 30, 1/4-5/16
14	5105303	1	WIRE HARNESS, JUMPER, KAWI - LARGE HARNE -(Kawasaki Models Only)
15	5102710	1	FUSE, ATO, 25 AMP -(SV)
16	5101935	2	FUSE, ATO-15 (15 AMP)(SV) -(SV)
17	-----	1	Refer to: Instrument Control Panel Group
18	-----	1	Refer to: Seat Mount & Floor Group
19	7022886	1	SWITCH, DP NO/NC SNAP-IN
20	-----	1	Refer to: Engine & PTO Group
21	5101932	3	CLAMP, VINYL INSULATED, .625
22	5025249	1	BOLT, M8-1.25 X 20 MM GD 8.8 -(Kawasaki Models Only)
23	5025536	1	NUT, HEX, M8-1.25, CZ, GD 8.8 -(Kawasaki Models Only)
24	5021199	2	TIE, SELF-LOCKING, 8", PUSH MOUNT

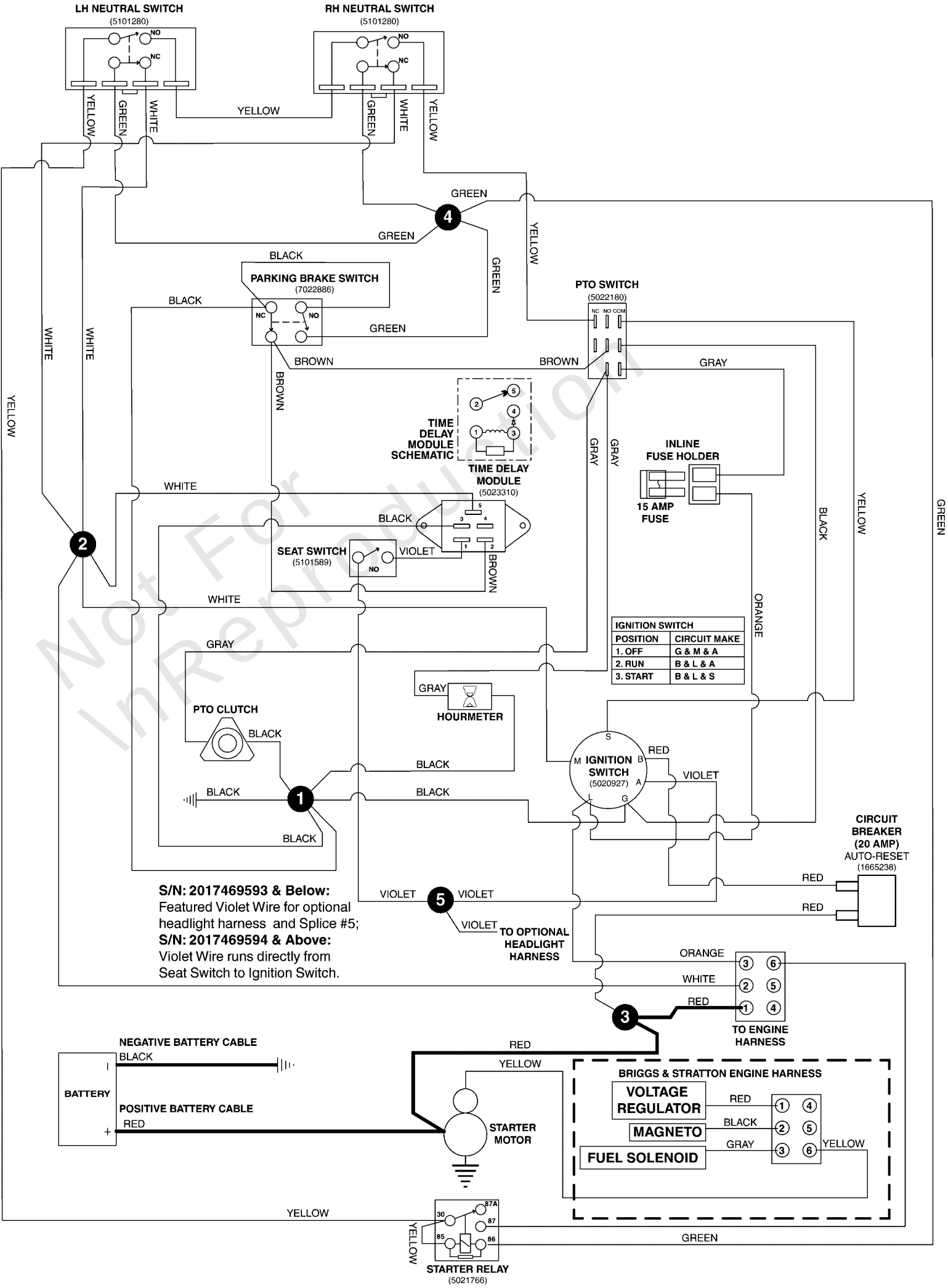
Electrical Schematic - Charging Circuit - B&S 49R977 S/N: 2017724860 & Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5414200 / S150XT MAIN WIRE HARNESS - BRIGGS & STRATTON VANGUARD ENGINES

(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.)



Electrical Schematic - Charging Circuit - B&S 49R977 S/N: 2017724860 & Below

REF NO	PART NO	QTY	DESCRIPTION
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Not For InReproduction

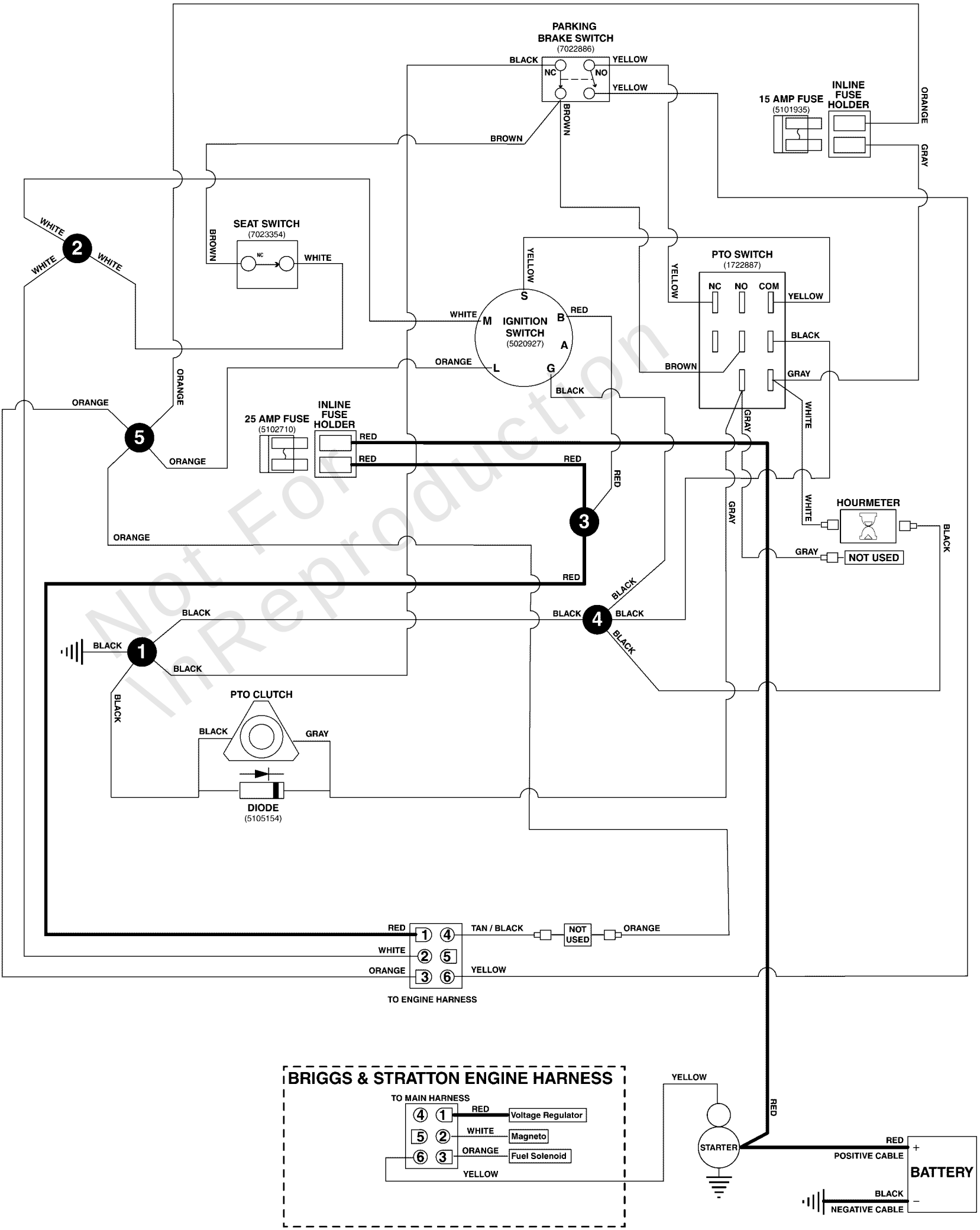
Electrical Schematic - Charging Circuit - B&S 49R977 S/N: 2017724861 - 2017954955

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5901516

5416015 (5415564) MAIN WIRE HARNESS - BRIGGS & STRATTON 49R977 ENGINES

5416015C

(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.)



REF NO	PART NO	QTY	DESCRIPTION
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Not For In Reproduction

Electrical Schematic - Charging Circuit - B&S 49R977 S/N: 2017954956 & Above

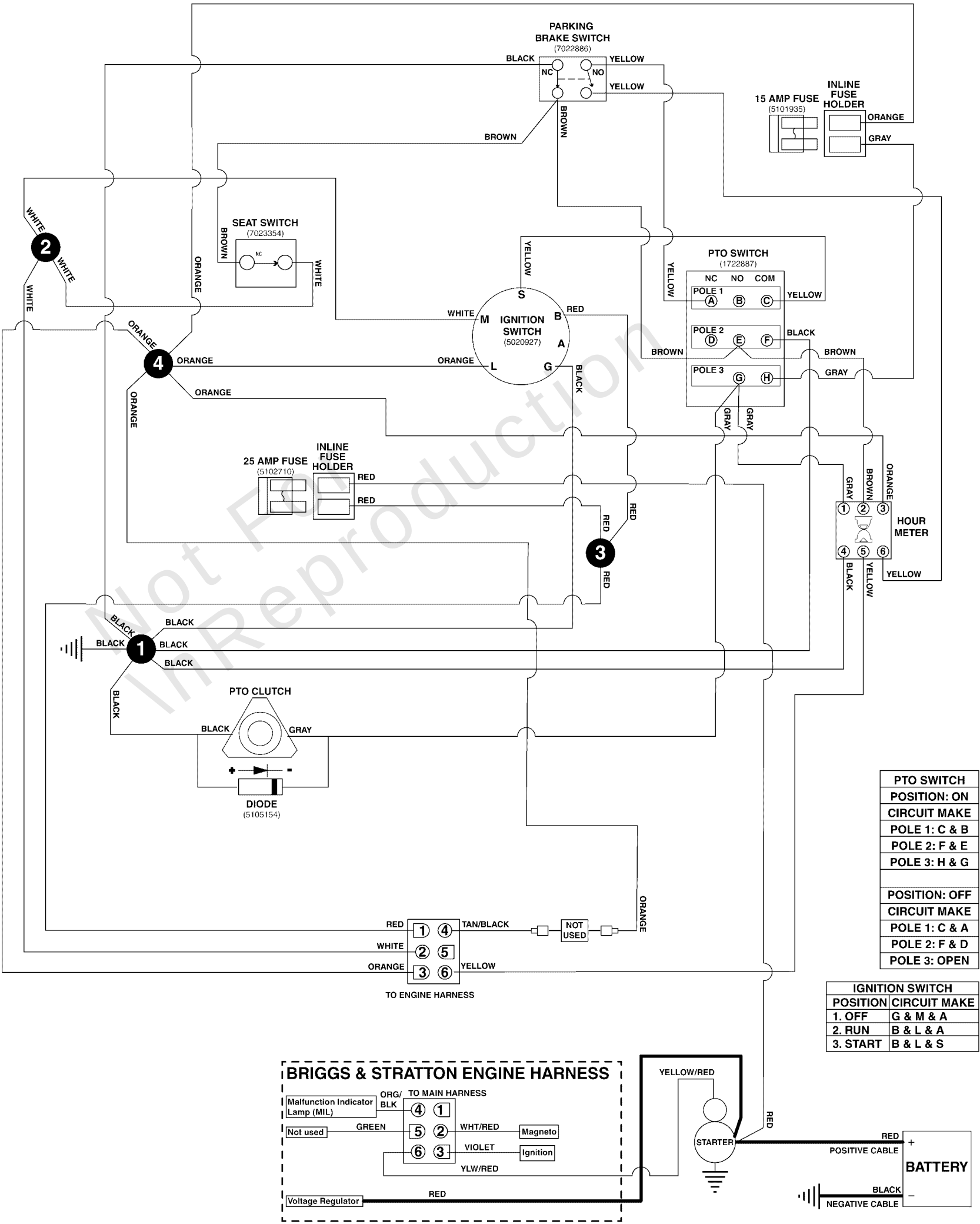
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5105535 MAIN WIRE HARNESS - BRIGGS & STRATTON 49R977 ENGINES

5105535D

(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.)



Electrical Schematic - Charging Circuit - B&S 49R977 S/N: 2017954956 & Above

REF NO	PART NO	QTY	DESCRIPTION
5105535	5105535	1	HARNESS, Wiring, Large ZTR

Not For In Reproduction

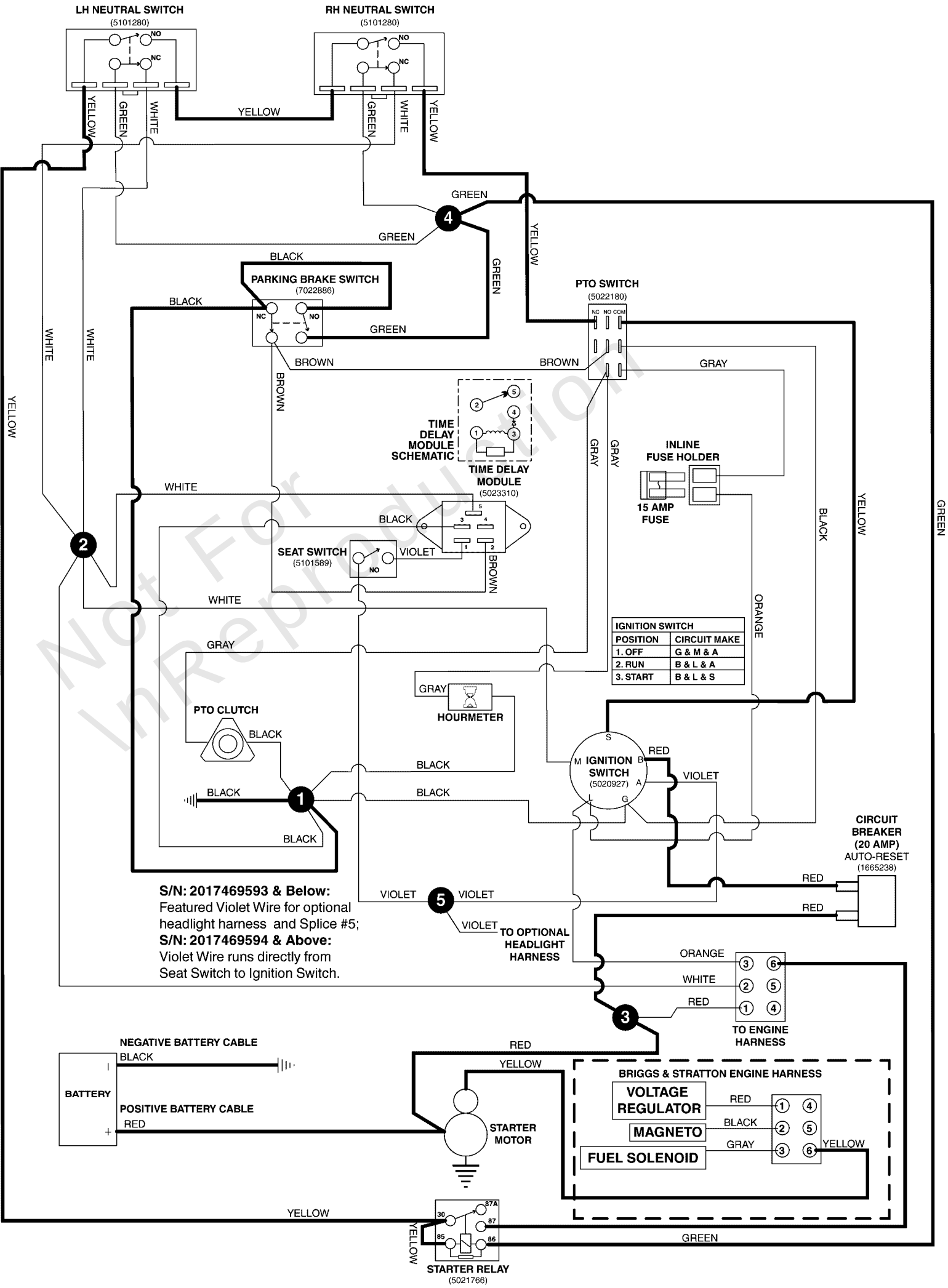
Electrical Schematic - Cranking Circuit - B&S 49R977 S/N: 2017724860 & Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5414200 / S150XT MAIN WIRE HARNESS - BRIGGS & STRATTON VANGUARD ENGINES

(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.)



Electrical Schematic - Cranking Circuit - B&S 49R977 S/N: 2017724860 & Below

REF NO	PART NO	QTY	DESCRIPTION
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Not For In Reproduction

Electrical Schematic - Cranking Circuit - B&S 49R977 S/N: 2017724861 - 2017954955

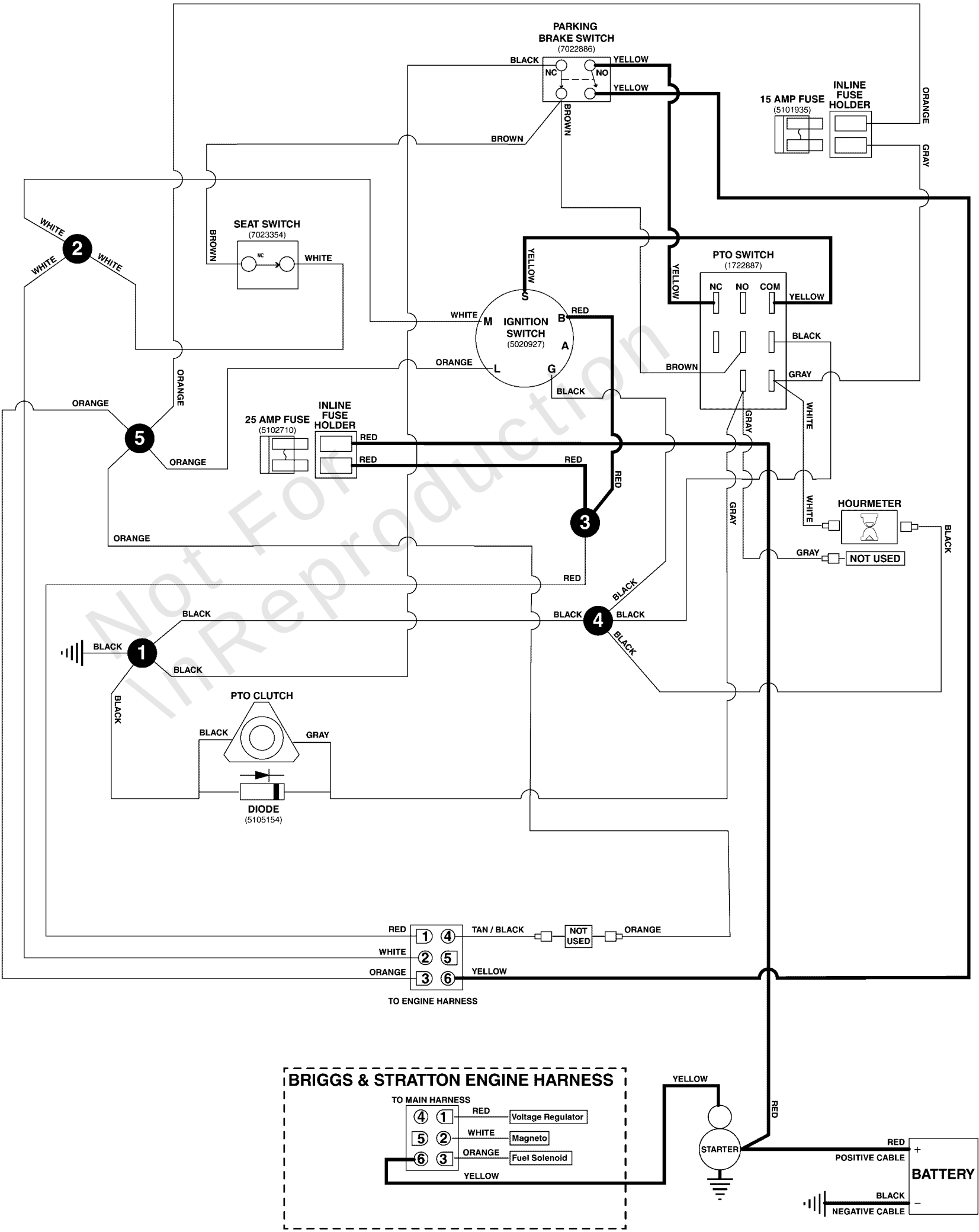
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5416015 (5415564) MAIN WIRE HARNESS - BRIGGS & STRATTON 49R977 ENGINES

5416015C

(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.)



REF NO	PART NO	QTY	DESCRIPTION
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Not For InReproduction

Electrical Schematic - Cranking Circuit - B&S 49R977 S/N: 2017954956 & Above

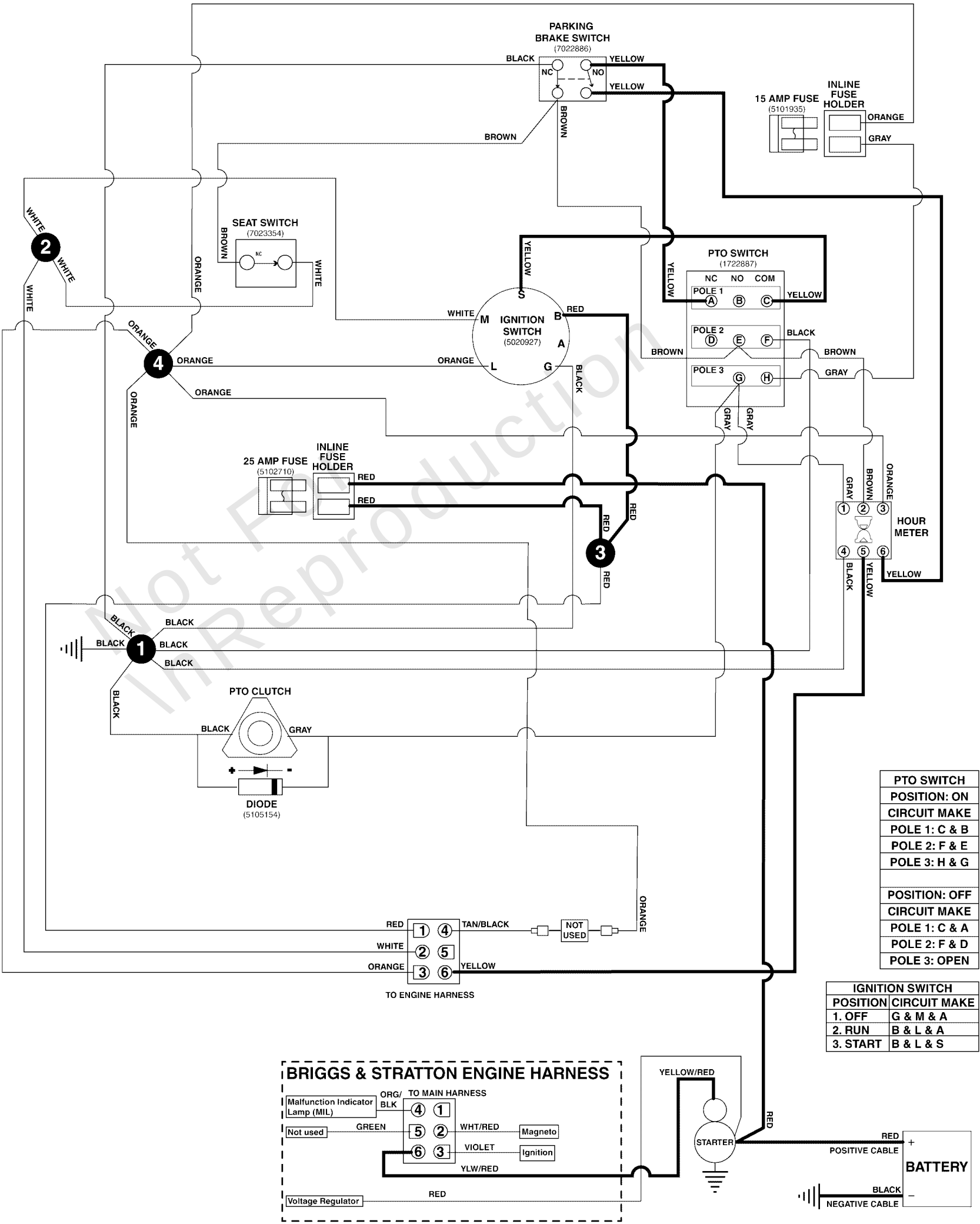
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5105535 MAIN WIRE HARNESS - BRIGGS & STRATTON 49R977 ENGINES

5105535D

(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.)



Electrical Schematic - Cranking Circuit - B&S 49R977 S/N: 2017954956 & Above

REF NO	PART NO	QTY	DESCRIPTION
5105535	5105535	1	HARNESS, Wiring, Large ZTR

Not For In Reproduction

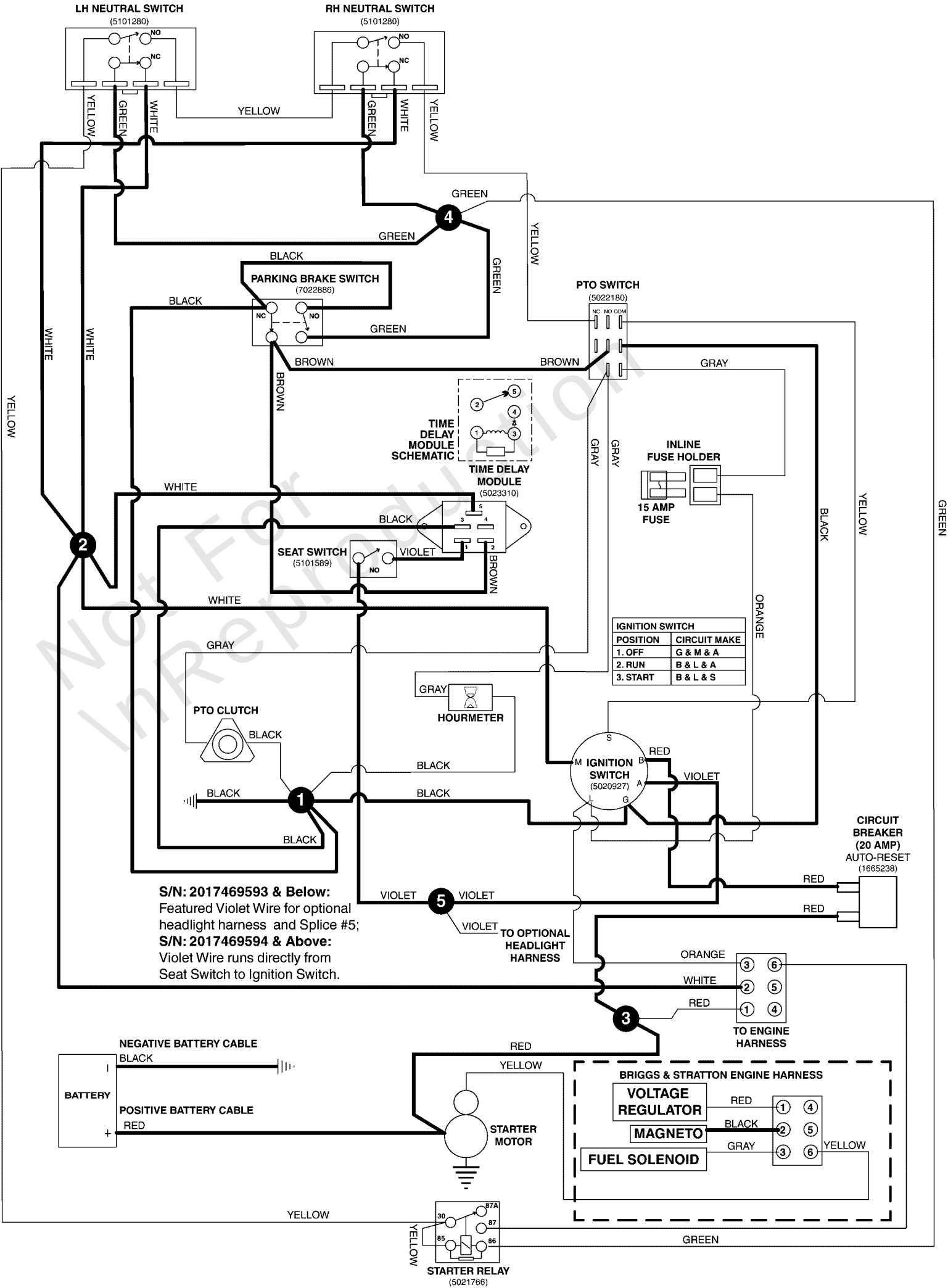
Electrical Schematic - Ign Grounding Circuit/Op. Pres - B&S 49R977 S/N: 2017724860 &

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5414200 / S150XT MAIN WIRE HARNESS - BRIGGS & STRATTON VANGUARD ENGINES

(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.)



REF NO	PART NO	QTY	DESCRIPTION
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Not For In Reproduction

Electrical Schematic - Ign. Ground Circuit/Op Pres. - B&S 49R977 S/N: 2017724861 -

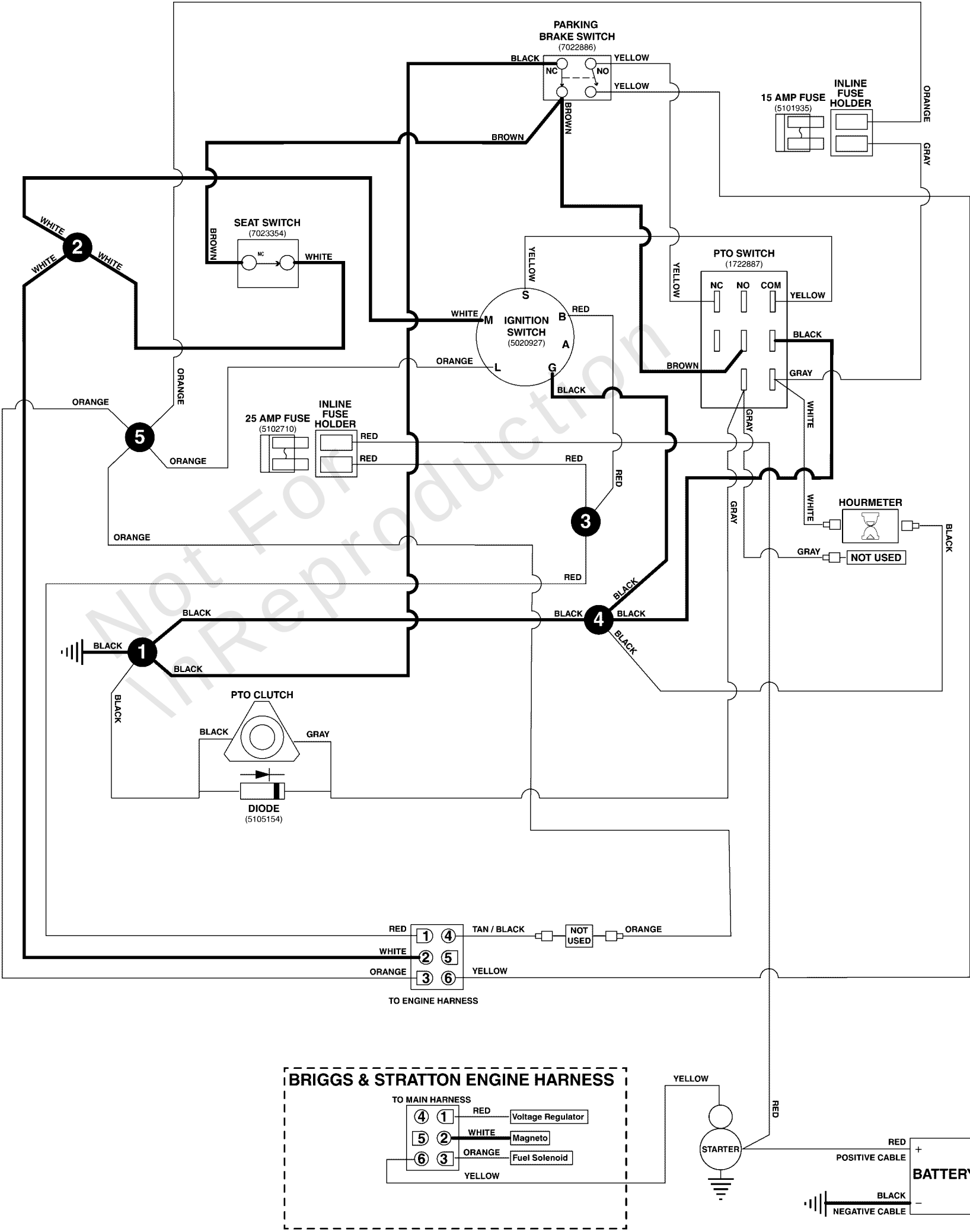
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5416015 (5415564) MAIN WIRE HARNESS - BRIGGS & STRATTON 49R977 ENGINES

5416015C

(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.)



REF NO	PART NO	QTY	DESCRIPTION
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Not For In Reproduction

Electrical Schematic - Ign. Ground Circuit/Op Pres. - B&S 49R977 S/N: 2017954956 &

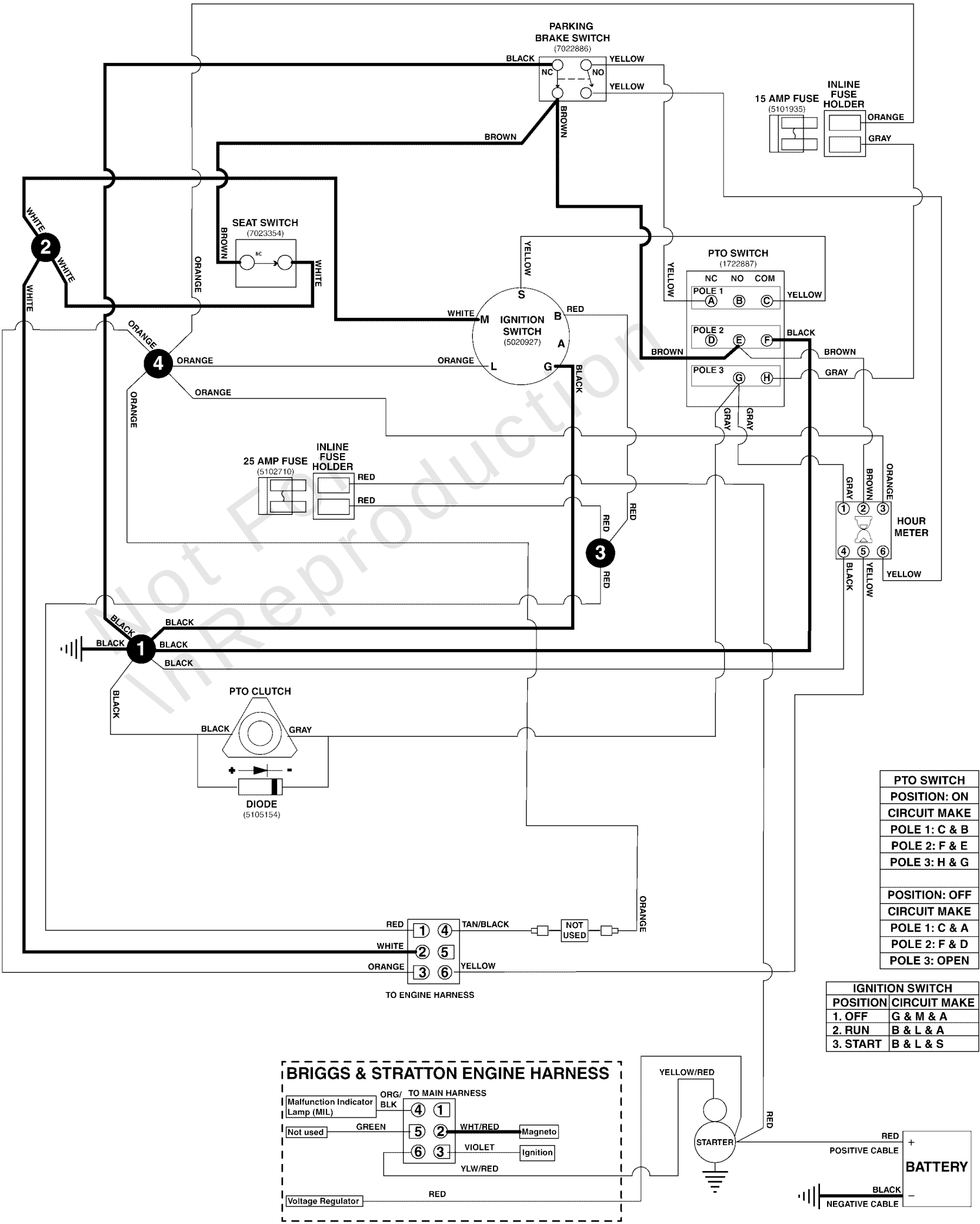
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5105535 MAIN WIRE HARNESS - BRIGGS & STRATTON 49R977 ENGINES

5105535D

(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.)



Electrical Schematic - Ign. Ground Circuit/Op Pres. - B&S 49R977 S/N: 2017954956 &

REF NO	PART NO	QTY	DESCRIPTION
5105535	5105535	1	HARNESS, Wiring, Large ZTR

Not For InReproduction

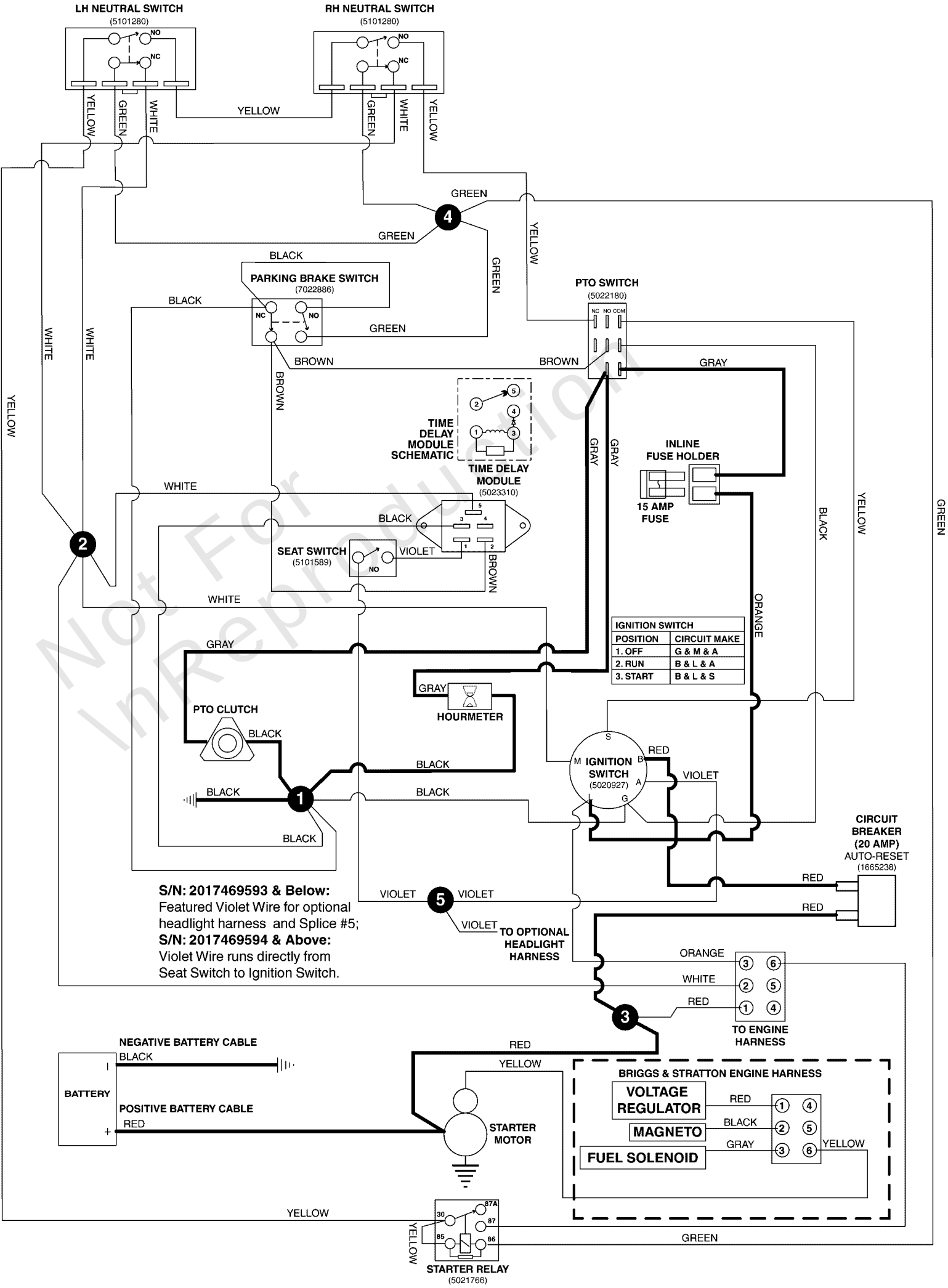
Electrical Schematic - PTO Clutch Circuit - B&S 49R977 S/N: 2017724860 & Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5414200 / S150XT MAIN WIRE HARNESS - BRIGGS & STRATTON VANGUARD ENGINES

(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.)



Electrical Schematic - PTO Clutch Circuit - B&S 49R977 S/N: 2017724860 & Below

REF NO	PART NO	QTY	DESCRIPTION
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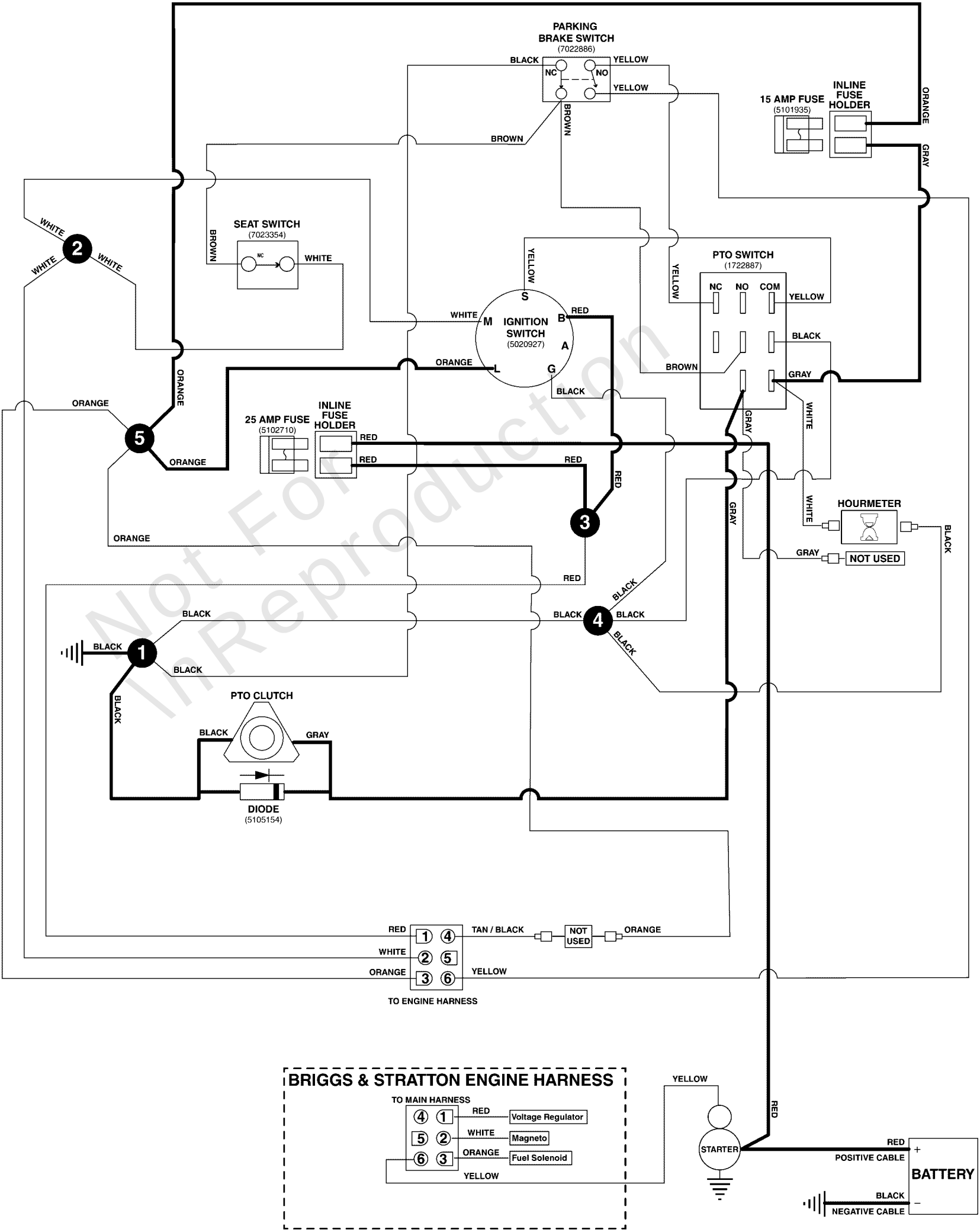
Not For In Reproduction

Electrical Schematic - PTO Clutch Circuit - B&S 49R977 S/N: 2017724861 - 2017954955

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5901516

5416015 (5415564) MAIN WIRE HARNESS - BRIGGS & STRATTON 49R977 ENGINES 5416015C

(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.)



Electrical Schematic - PTO Clutch Circuit - B&S 49R977 S/N: 2017724861 - 2017954955

REF NO	PART NO	QTY	DESCRIPTION
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Not For In Reproduction

Electrical Schematic - PTO Clutch Circuit - B&S 49R977 S/N: 2017954956 & Above

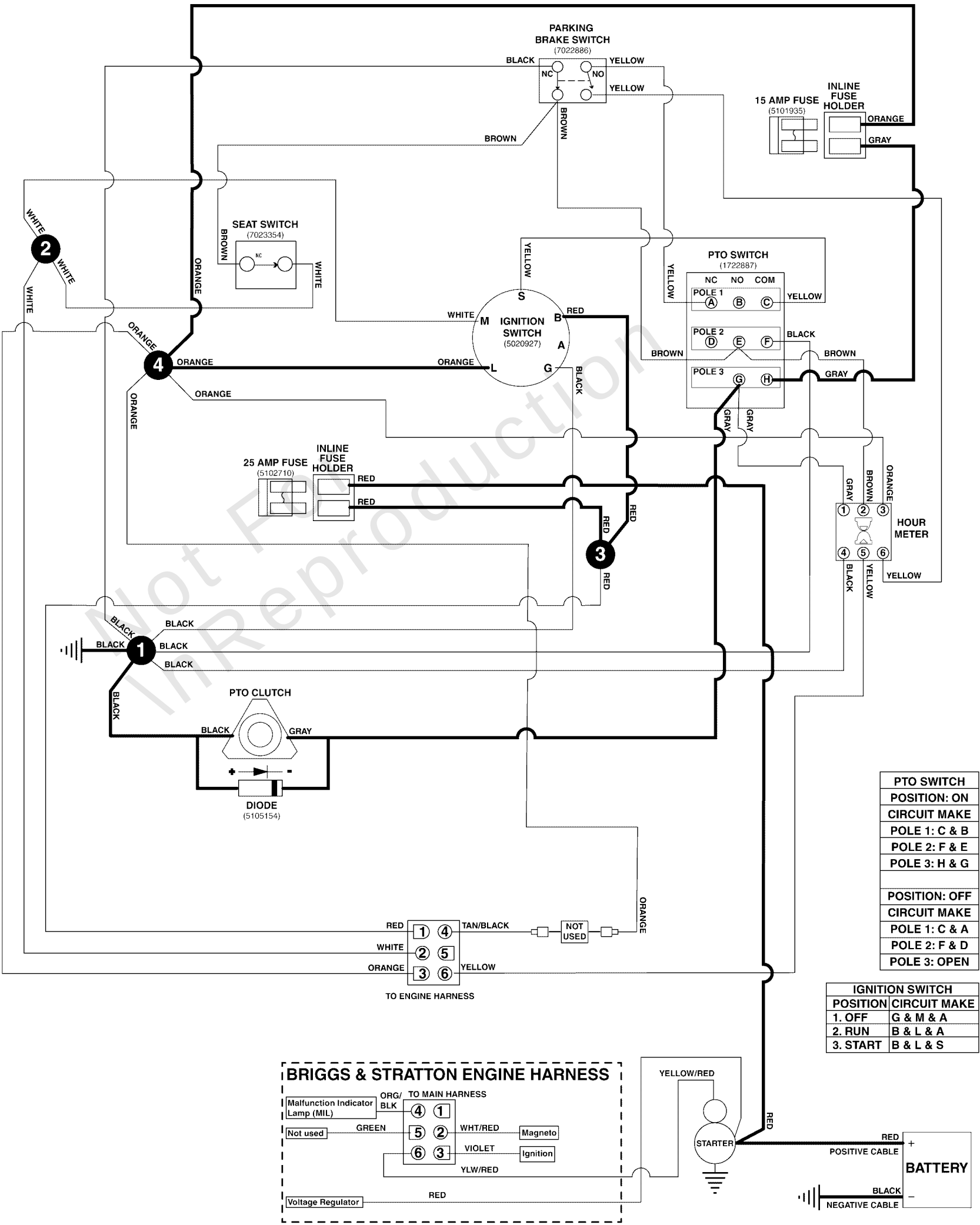
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5105535 MAIN WIRE HARNESS - BRIGGS & STRATTON 49R977 ENGINES

5105535D

(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.)



Electrical Schematic - PTO Clutch Circuit - B&S 49R977 S/N: 2017954956 & Above

REF NO	PART NO	QTY	DESCRIPTION
5105535	5105535	1	HARNESS, Wiring, Large ZTR

Not For In Reproduction

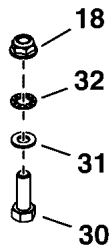
Engine & PTO Group S/N: 2017988618 & Below

Note: Unless noted otherwise, use the standard torque specifications

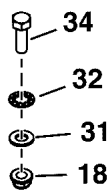
Mfg. No: 5901516

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5304246
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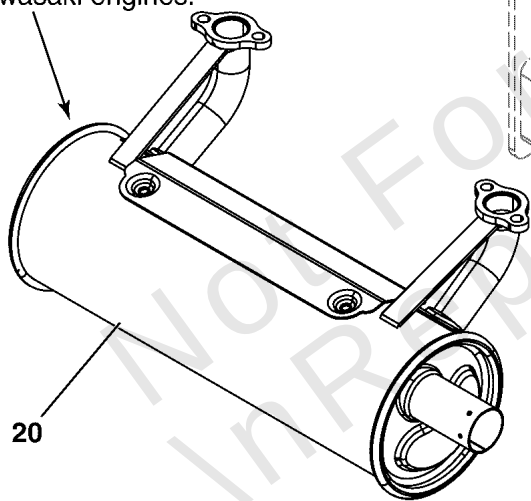
Hardware for
securing engine
to frame (Briggs
& Stratton
Models)



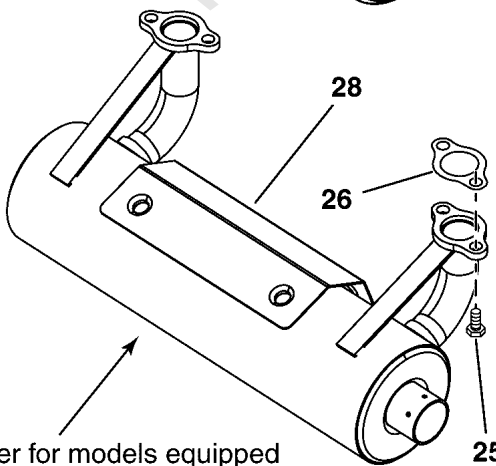
Hardware for
securing right
front of B&S EFI
engine to frame



Muffler for models
equipped with
Kawasaki engines.



Muffler for models equipped
with Briggs & Stratton carbureted
engines.



**Torque crankshaft bolt
to 65 Ft. Lbs (88 Nm)**
Apply Loctite 271 to threads
of crankbolt when assembling.

1, 2, 33

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21, 29, 38, 39

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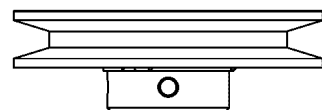
4

21, 29, 38, 39

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21, 29, 38, 39

Pulley Orientation



8A - Kit, Clutch Wire Repair
(For repairing wires
connecting to clutch)

Engine & PTO Group S/N: 2017988618 & Below

REF NO	PART NO	QTY	DESCRIPTION
1	FX730V-DS00-S	1	ENGINE, KAWASAKI -(Kawasaki Powered Models)
2	-----	1	ENGINE, BRIGGS & STRATTON, VANGUARD -(Briggs & Stratton Carbureted Models)
3	5025392	4	NUT, 5/16-18 HEX NYLOCK FLANGE
4	5025585	2	BELLEVILLE WASHER 1.1875 X .442 X .089
5	5048681	1	HOSE, OIL DRAIN
6	5043636	1	CLUTCH ANCHOR PAD
7	5025155	4	WASHER, 5/16" SAE
8	5105090	1	CLUTCH, 5218-221, WARNER
8A	5600575	1	KIT, CLUTCH WIRE REPAIR -(SV)
9	5046416A	1	ANCHOR, CLUTCH - BLK
10	5044617	4	WASHER, .34 X 1.25 X 10 GA
11	5025055X18	1	BOLT, 5/16-18 X 2-1/4 TFL, GD5 YZ
12	5050407X10	1	KEY, 1/4 SQ X 1-1/4
13	5021379	1	GROMMET, 7/8
14	5025127	1	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
15	5025011X8	4	BOLT, 5/16-18 X 1 GD5 YZ
16	5021682	1	PULLEY, 4.75 OD X 1-1/8 BORE, BC-48
17	5025531	2	SET SCREW, 5/16-18 X 3/8, KNUURL -(SV)
18	5025616	4	NUT, 5/16-24, TOP LOCK FLANGE, GD8 PHOS
19	5046845	1	SPACER, 1.13 X 1.75 X .97
20	5104326	1	MUFFLER, KAWI, HORIZONTAL, 5" CAN -(Kawasaki Powered Models)
21	5102865	1	BOLT, CRANKSHAFT, 7/16-20X2-3/4, GD8 -(Kawasaki Powered Models S/N: 2017360078 & Below)
22	5025532	4	BOLT, 3/8-16 X 1-1/4, SF, PLT W/PATCH -(Kawasaki Powered Models)
23	5021500	1	CLAMP, VINYL INSULATED
24	5046904	1	SPACER, 1.13 X 1.75 X .25 -(S/N: 2017360078 & Below)
25	94480	4	SCREW-HEX SEMS LOCK WSHR 5/16-18X0.875 -(Briggs & Stratton Powered Models)
26	273485	2	GASKET, EXHAUST -(Briggs & Stratton Powered Models)
27	5022234	1	ADAPTER-OIL DRAIN -(Kawasaki Powered Models)
28	593249	1	MUFFLER, RIGHT OUTLET ASSY -(Briggs & Stratton Carbureted Models)
29	5102864	1	BOLT, CRANKSHAFT, 7/16-20X2-1/2, GD8 -(Briggs & Stratton Powered Models S/N: 2017360078 & Below)
30	5025025X14	4	BOLT, 5/16-24 X 1-3/4, GD8, PHOS -(Briggs & Stratton Powered Models)
31	5025170	4	WASHER, 5/16 LOCK YZ -(Briggs & Stratton Powered Models)
32	5025188	4	WASHER, 5/16 INT. TOOTH LOCK -(Briggs & Stratton Powered Models)
33	49E877-0001-G1	1	ENGINE, BRIGGS & STRATTON, EFI -(Briggs & Stratton EFI Models)(Muffler available through engine manufacturer)
34	5025025X12	1	BOLT-HEX, 5/16-24 X 1-1/2", GD8, PHOS -(Briggs & Stratton EFI Models)
35	5025010X6	1	BOLT, 1/4-20 X 3/4 GD5 YZ
36	5025391	1	NUT, 1/4-20 HEX NYLOCK FLANGE
37	5044062	1	SPACER, 1.13 X 1.75 X .50 -(S/N: 2017360079 & Above)

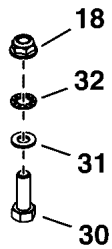
Engine & PTO Group S/N: 2017988618 & Below

Note: Unless noted otherwise, use the standard torque specifications

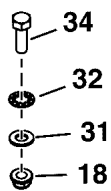
Mfg. No: 5901516

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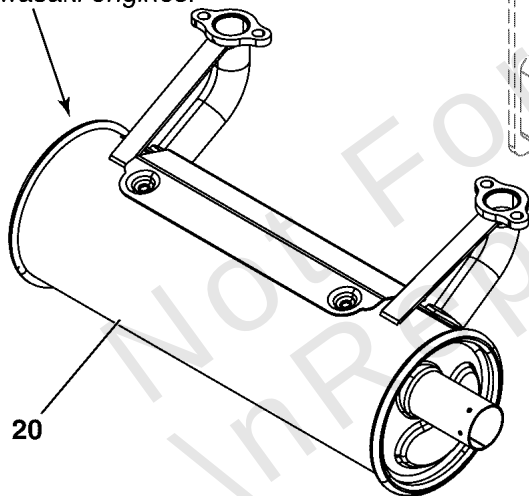
Hardware for
securing engine
to frame (Briggs
& Stratton
Models)



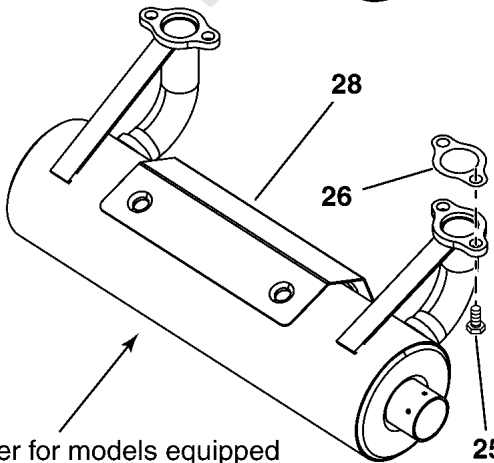
Hardware for
securing right
front of B&S EFI
engine to frame



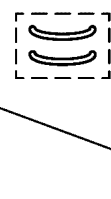
Muffler for models
equipped with
Kawasaki engines.



Muffler for models equipped
with Briggs & Stratton carbureted
engines.



**Torque crankshaft bolt
to 65 Ft. Lbs (88 Nm)**
Apply Loctite 271 to threads
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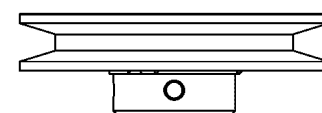
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Pulley Orientation



8A - Kit, Clutch Wire Repair
(For repairing wires
connecting to clutch)

Engine & PTO Group S/N: 2017988618 & Below

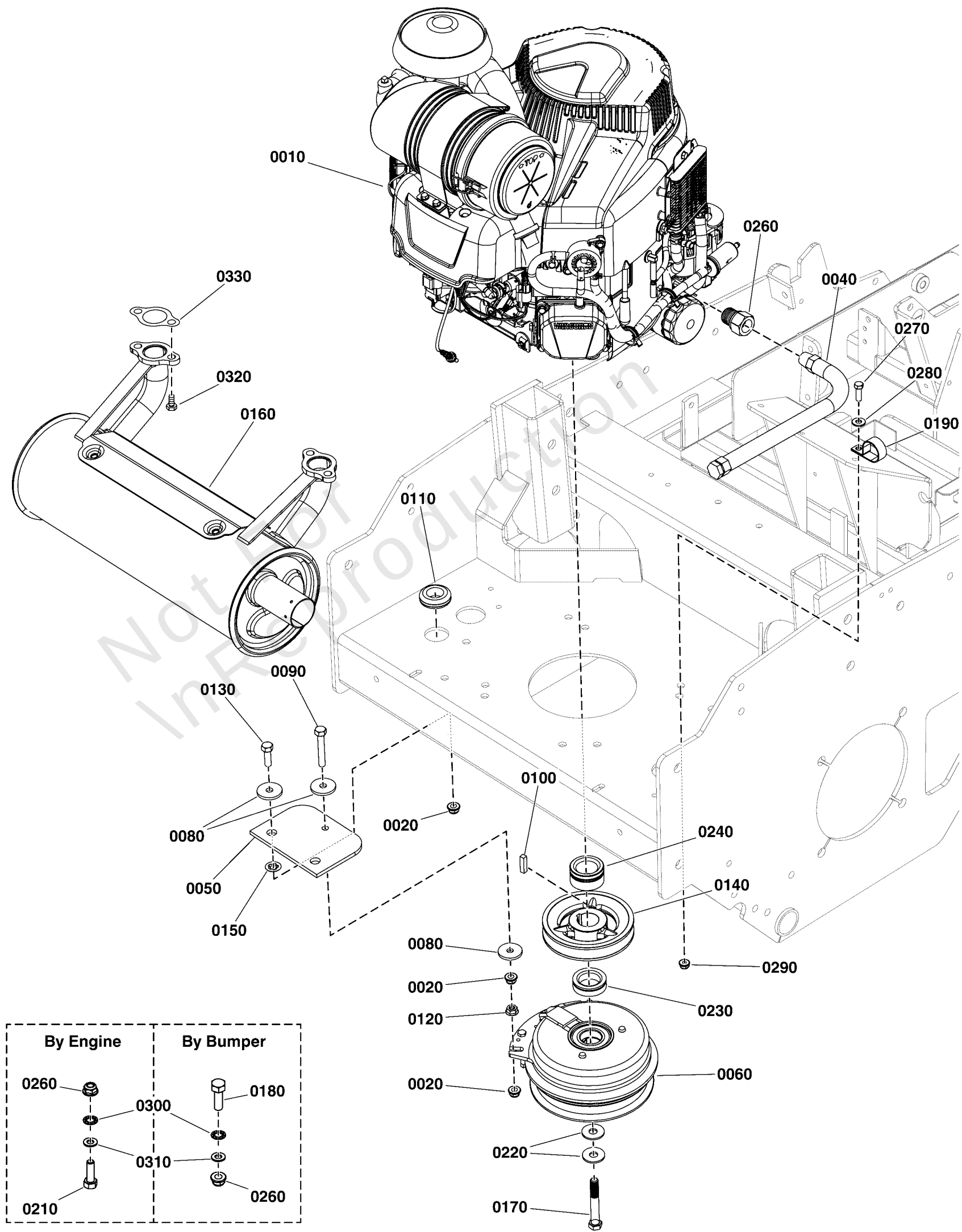
REF NO	PART NO	QTY	DESCRIPTION
38	5102866	1	BOLT, CRANKSHAFT, 7/16-20 X 3, GD9 -(Kawasaki Powered Models S/N: 2017360079 & Above)
39	5102865	1	BOLT, CRANKSHAFT, 7/16-20X2-3/4, GD8 -(Briggs & Stratton Powered Models S/N: 2017360079 & Above)

Not For InReproduction

Engine & PTO Group S/N: 2017988619 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516



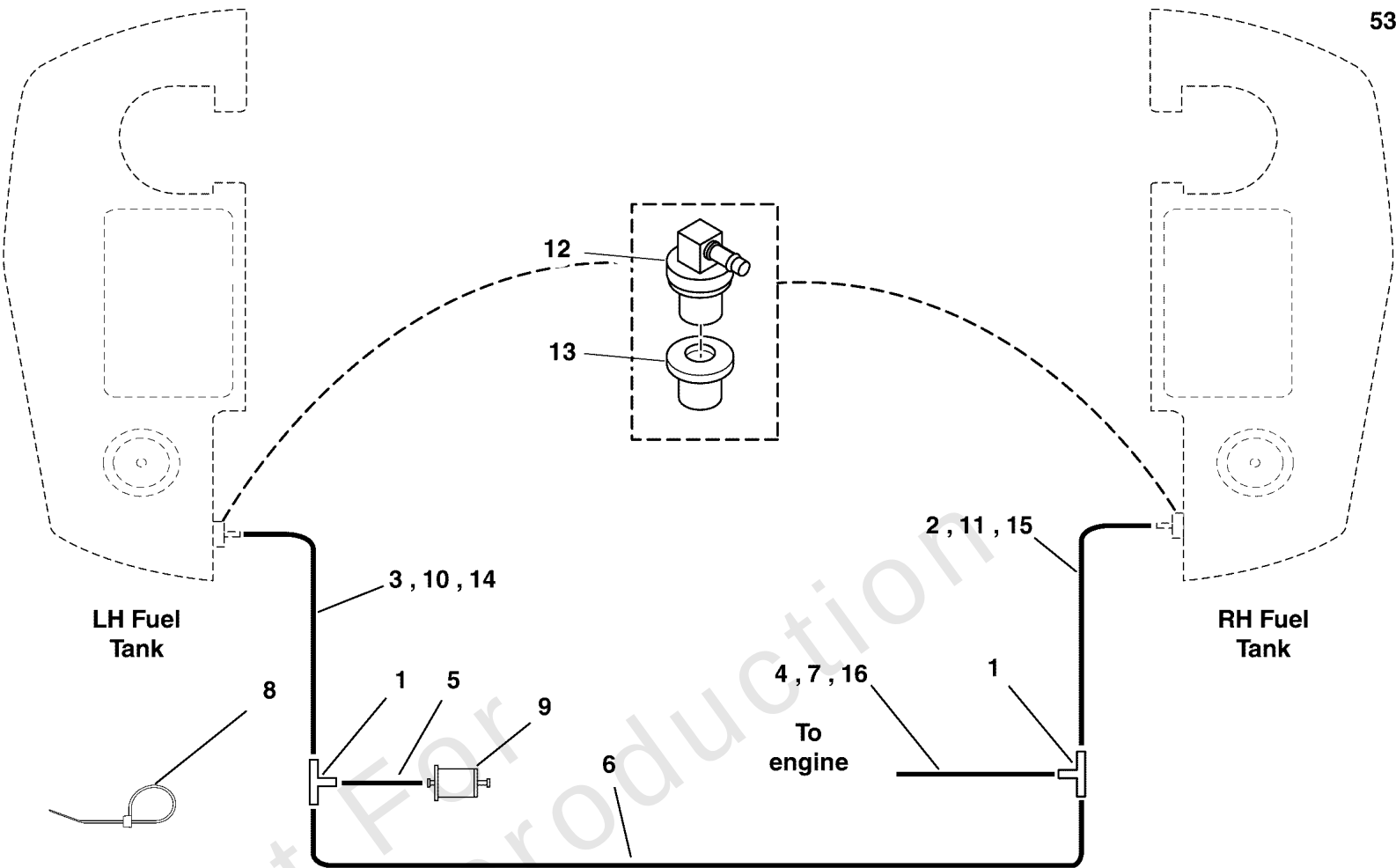
Engine & PTO Group S/N: 2017988619 & Above

REF NO	PART NO	QTY	DESCRIPTION
0010	-----	1	ENGINE, BRIGGS & STRATTON, VANGUARD -(Refer to Note: *)
0020	5025392	4	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0040	5048681	1	HOSE, OIL DRAIN
0050	5043636	1	CLUTCH ANCHOR PAD
0060	5105090	1	CLUTCH WARNER 200 FT-LB 1.13 X 6.323
0080	5044617	4	WASHER, .34 X 1.25 X 10 GA
0090	5025055X16	1	BOLT, 5/16-18 X 2 GD5 TFL, CZ
0100	5050407X10	1	KEY, 1/4" SQ. X 1-1/4
0110	5021379	1	GROMMET, 7/8"
0120	5025127	1	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
0130	5025011X8	2	BOLT, 5/16-18 X 1" GRD5 YZ
0140	5021682	1	PULLEY, 4.75 OD X 1-1/8 BORE, BC-48
0150	5025498	2	5/16" PUSH-ON NUT RETAINER, STL, CZ
0160	593249	1	MUFFLER, RIGHT OUTLET ASSY
0170	5102865	1	BOLT, CRANKSHAFT, 7/16 X 2-3/4, PATCH, CZ -(Torque clutch mounting bolt to 65 ft-lbs (88 Nm))
0180	5025025X14	3	BOLT, 5/16-24 X 1-3/4, GD8, PHOS -(Torque engine mounting bolts to 17 ft-lbs (23 Nm))
0190	5021500	1	CLAMP, VINYL INSULATED, 1.00
0210	5025025X12	1	BOLT-HEX, 5/16-24 X 1-1/2", GD8, PHOS -(Torque engine mounting bolts to 17 ft-lbs (23 Nm))
0220	5025585	2	BELLEVILLE WASHER, 1.1875 X .442 X .098
0230	5044062	1	SPACER, 1.13 X 1.75 X .50
0240	5046845	1	SPACER, 1.13 X 1.75 X .97
0260	5025616	4	NUT, 5/16-24, TOP LOCK FLANGE, GD8 PHOS
0270	-----	1	HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR
0280	5025154	1	WASHER, 1/4 SAE
0290	5025391	1	NUT, 1/4-20 Hex Nylock Flange
0300	5025188	4	WASHER, 5/16" Internal Tooth Lock
0310	5025155	4	WASHER, 5/16" SAE
0320	94480	4	SCREW
0330	273485	2	GASKET, EXHAUST

Footnotes:

Note:* Refer to your local Briggs & Stratton distributor for parts and service.

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Evap Group

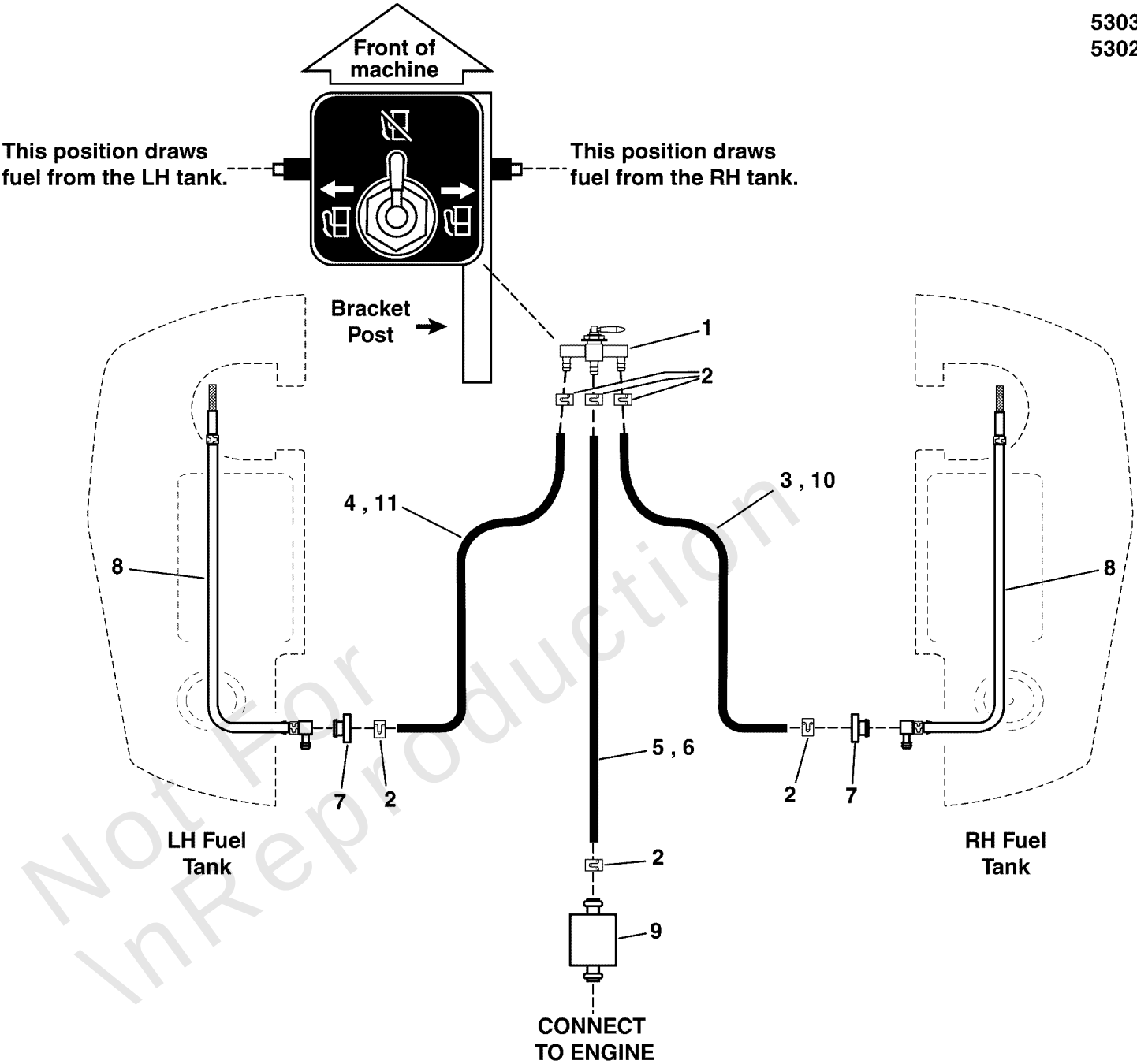
REF NO	PART NO	QTY	DESCRIPTION
1	5103062	2	FITTING, 3/16" TEE, BARB TYPE, HDPE
2	7700552X16P5	1	HOSE, VAPOR, 5MM ID, 16.50 LG -(Briggs & Stratton Powered Models)
3	7700552X33	1	HOSE, VAPOR, 5MM ID, 33.00 LG -(Briggs & Stratton Powered Models)
4	7700552X8	1	HOSE, VAPOR, 5MM ID, 8.00 LG -(Briggs & Stratton Powered Models)
5	7700552X2	1	HOSE, VAPOR, 5MM ID, 2.00 LG
6	7700552X15	1	HOSE, VAPOR, 5MM ID, 15.00 LG
7	7700552X18	1	HOSE, VAPOR, 5MM ID, 18.00 LG -(Kawasaki Powered Models)
8	5021030	3	TIE, SELF-LOCKING, 6" -(Qty: 5 - Kawasaki Model)
9	80025019	1	FILTER, FUEL
10	7700552X16P5	1	HOSE, VAPOR, 5MM ID, 16.50 LG -(Kawasaki Powered Models)
11	7700552X33	1	HOSE, VAPOR, 5MM ID, 33.00 LG -(Kawasaki Powered Models)
12	770046	2	REMOTE VENT ASSEMBLY -(SV)
13	209043	2	GROMMET (SV) -(SV)
14	7700552X34	1	HOSE, VAPOR, 5MM ID, 34.00 LG -(Export Models)
15	7700552X6YP	1	HOSE, VAPOR, 5MM ID, 6.00 LG
16	7700552X26	1	HOSE, VAPOR, 5MM ID, 26.00 LG -(Export Models)

Fuel Supply Hose & Tank Replacement Parts Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

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Fuel Supply Hose & Tank Replacement Parts Group

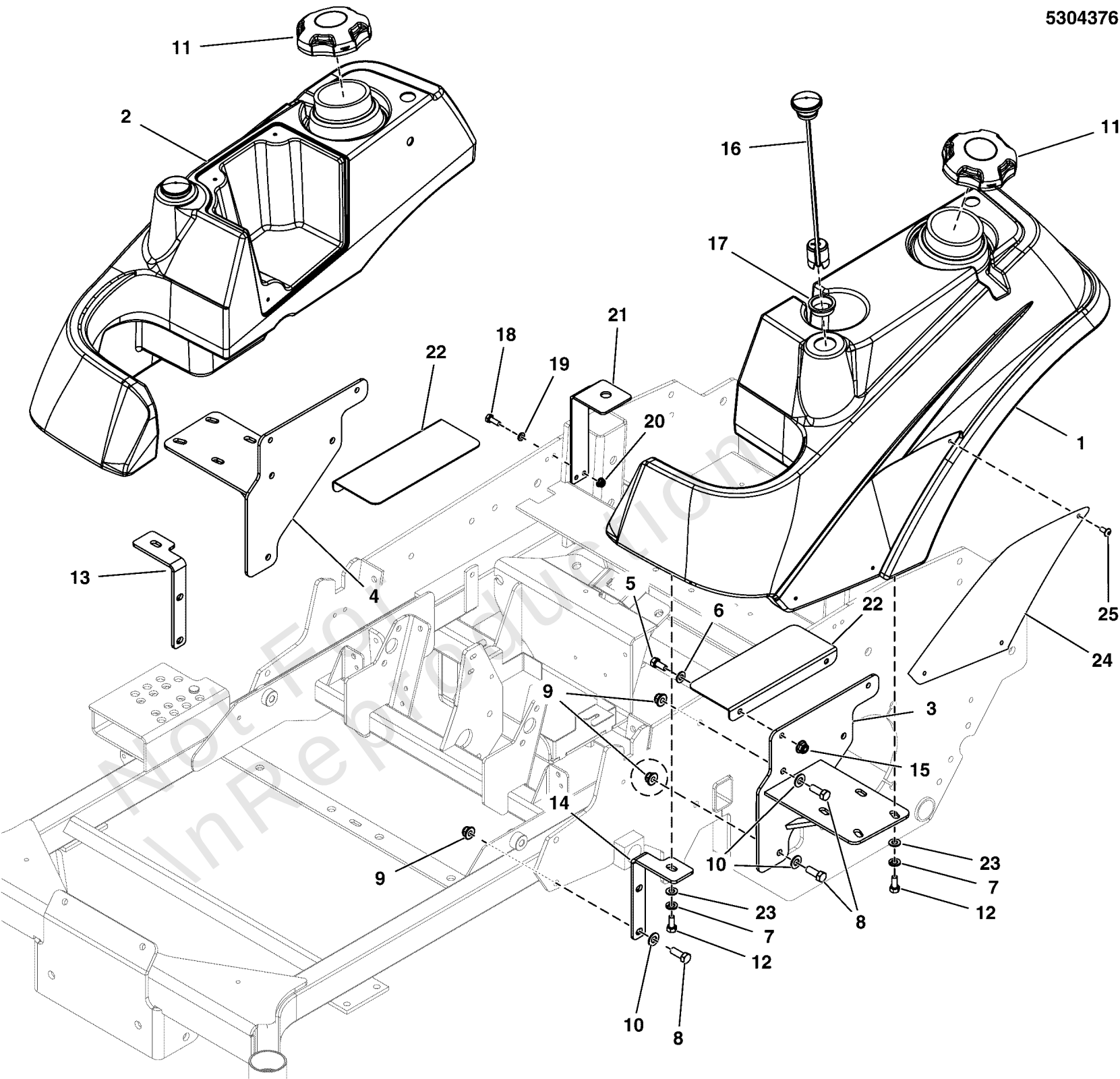
REF NO	PART NO	QTY	DESCRIPTION
1	5023358	1	VALVE, FUEL SHUT-OFF, 11772
2	93807	6	CLAMP, HOSE, EXTERNAL, 1/2 - RED
3	5050831X27	1	HOSE, 1/4" FUEL, 27.00" -(USA Models)
4	5050831X42	1	HOSE, 1/4" FUEL, 42.00" -(USA Models)
5	5050831X21	1	HOSE, 1/4" FUEL, 21.00" -(Kawasaki Powered Models)
6	5050831X13	1	HOSE, 1/4" FUEL, 13.00" -(Briggs & Stratton Powered Models)
7	1726400	2	BUSHING-FUEL TANK RED RUBBER (SV)
8	5101149	2	PICKUP TUBE ASM, FUEL TANK, 22"
9	5021178X3	1	FUEL FILTER (SV)
10	5050831X26	1	HOSE, 1/4" FUEL, 26.00" -(Export Models)
11	5050831X35	1	HOSE, 1/4" FUEL, 35.00" -(Export Models)

Fuel Tank & Mount Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

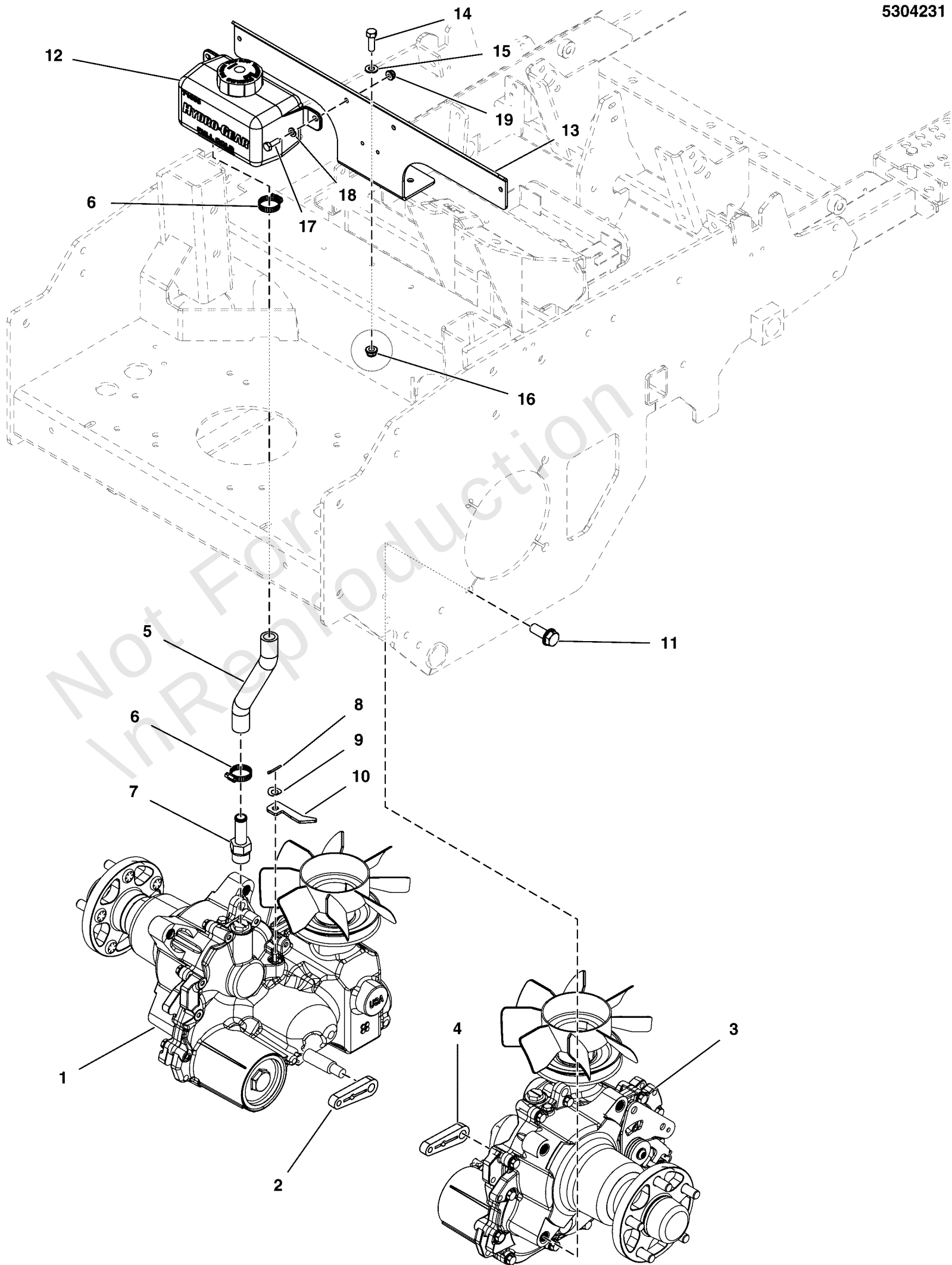
5304376



Fuel Tank & Mount Group

REF NO	PART NO	QTY	DESCRIPTION
1	5104726	1	TANK, FUEL, 5.75GAL, MED, Z-LH, LOW PERM
2	5104727	1	TANK, FUEL, 5.00GAL, MED, Z-RH, LOW PERM
3	5414596B	1	WELD, FUEL TANK MOUNT, F160Z LH - RED
4	5414597B	1	WELD, FUEL TANK MOUNT, F160Z RH - RED
5	5025011X8	4	BOLT, 5/16-18 X 1 GD5 CZ
6	5025155	4	WASHER, 5/16" SAE
7	5025170	10	WASHER, 5/16 LOCK CZ
8	5025013X8	10	BOLT, 3/8-16 X 1" GD5 CZ
9	5025394	10	NUT, 3/8-16 HEX NYLOCK FLANGE
10	5025156	10	WASHER, 3/8 SAE
11	5103005	2	FUEL CAP, 3-1/2", MANAGED VENT OUT, 12"
12	5025011X6	10	BOLT, 5/16-18 X 3/4 GD5
13	5414719B	1	PLATE, FRONT TANK MOUNT, F160Z, RH - RED
14	5414720B	1	PLATE, FRONT TANK MOUNT, F160Z, LH - RED
15	5025392	4	NUT, 5/16-18 HEX NYLOCK FLANGE
16	5022917	2	GAUGE, FUEL, 12 -(SV)
17	5022917X1	2	GROMMET, FUEL GAUGE -(SV)
18	5025010X6	2	BOLT, 1/4-20 X 3/4 GD5 CZ
19	5025154	2	WASHER, 1/4 SAE
20	5025391	2	NUT, 1/4-20 HEX NYLOCK FLANGE
21	5414668A	1	PLATE, FUEL SWITCH, F160Z - BLK
22	5411695A	2	GUARD, FAN - BLK
23	5025292	10	WASHER, 5/16 F436 FLAT
24	5400250B	2	PLATE, BADGE - IS1500 - RED
25	5025386	6	SCREW, #10-24 X 3/8 ALLEN BHBZ

5304231



Hydraulic Group

REF NO	PART NO	QTY	DESCRIPTION
1	5104389	1	TRANSAXLE, ZT4400, LH, 1710-1024L
2	5104647	1	BRAKE ARM, LH, STRAIGHT, ZT4400, 72682
3	5104388	1	TRANSAXLE, ZT4400, RH, 1710-1024R
4	5104648	1	BRAKE ARM, RH, STRAIGHT, ZT4400, 72681
5	5104119	2	HOSE, OFFSET FORMED, 7.25
6	5021164	4	CLAMP, #10 HOSE, STAINLESS
7	5101987X1	2	FITTING, BREATHER, ZT5400
8	80002736	2	PIN, 3/32 X 0.750, COT, ZINC/CLEAR
9	5023202	2	WASHER,WAVE,M10
10	5104436	2	ARM, TRANSAXLE RELEASE, ZT4400
11	5025535	8	BOLT, 1/2-13 X 1-1/4, SF, PLT W/PATCH
12	5101998	2	HYDRO TANK, HYDRO-GEAR 71938, 1 LITER
13	5411106A	1	PLATE, HYDRO BOTTLE MOUNT - BLK
14	5025011X8	2	BOLT, 5/16-18 X 1 GD5 CZ
15	5025155	2	WASHER, 5/16" SAE
16	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE
17	5025010X6	4	BOLT, 1/4-20 X 3/4 GD5 CZ
18	5025154	4	WASHER, 1/4 SAE
19	5025391	4	NUT, 1/4-20 HEX NYLOCK FLANGE

Instrument Control Panel Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

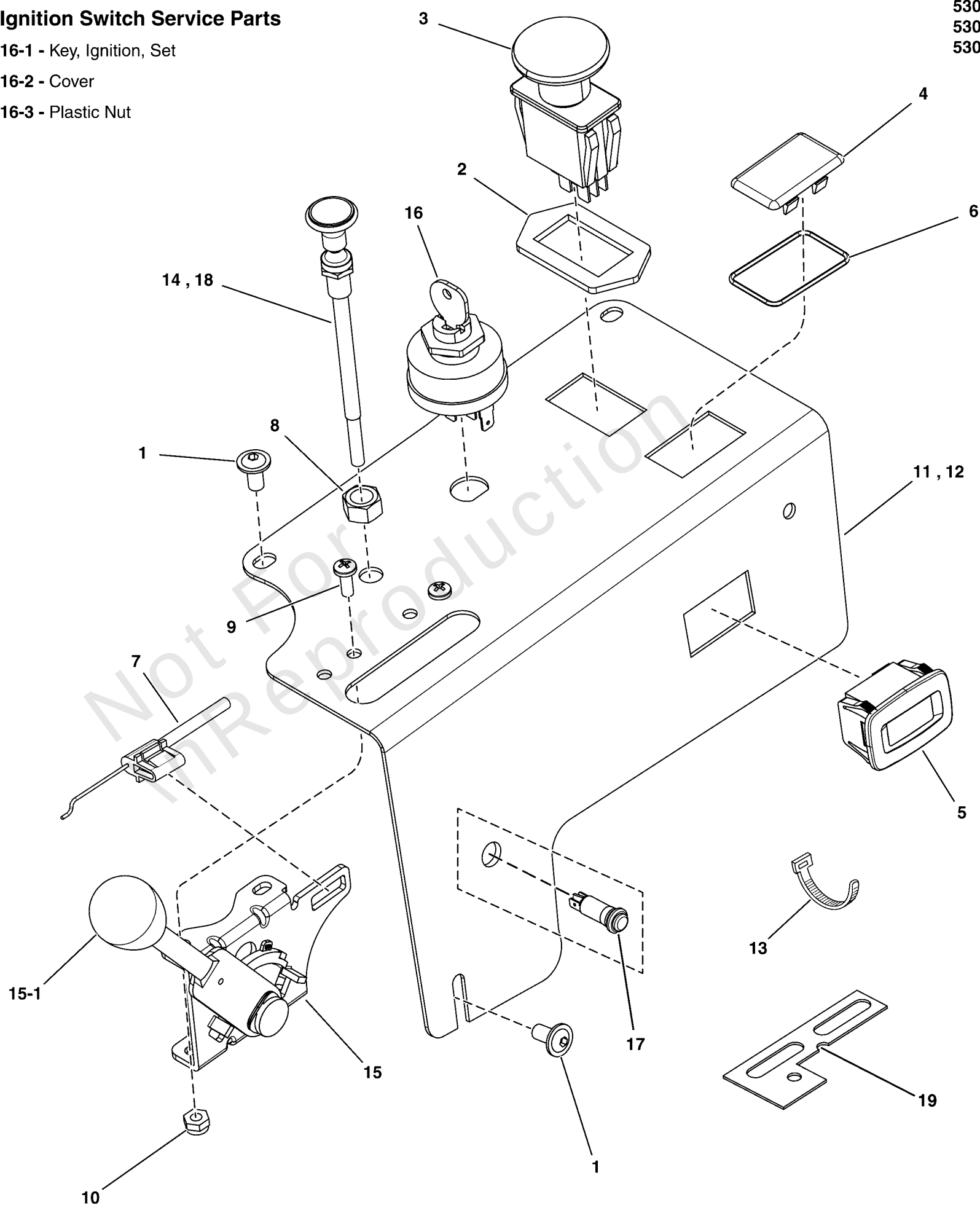
Ignition Switch Service Parts

16-1 - Key, Ignition, Set

16-2 - Cover

16-3 - Plastic Nut

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Instrument Control Panel Group

REF NO	PART NO	QTY	DESCRIPTION
1	5025299X4	3	SCREW, ALLEN HEAD 1/4-20X.500 ZINC PHOS
2	5022222	1	RING, SWITCH RETAINER
3	5022180	1	SWITCH, BLADE ENGAGEMENT
4	1709188	1	PLUG, .820X1.44 HOLE, BLACK PLASTIC
5	-----		HOUR METER, ASSEMBLE -(Refer to Note*)
6	5022269	1	O-RING, 7/8" ID X 1/16" W
7	5101073	1	CABLE, Throttle Control, 42"
8	5025035	1	NUT, 3/8-24 HEX (SV) -(Carbureted Models Only)
9	5025179X6	2	SCREW, #10-24 X 3/4" ROUND PHILLIPS
10	5025271	2	NUT, Hex, Nylon Lock, #10-24
11	5411620A	1	PLATE, CONTROL PANEL, S150XT - BLK -(Carbureted Models Only)
12	5413229A	1	PLATE, CONTROL PANEL, S150XT, EFI -BLK -(EFI Models)
13	5021030	1	TIE, SELF-LOCKING, 6"
14	5100184	1	CABLE, CHOKE CONTROL, 43.5" -(Kawasaki Models Only)
15	5101537	1	LEVER, THROTTLE CONTROL
15-1	5046360X1	1	THROTTLE CONTROL HANDLE/KNOB -(SV)
16	5020927	1	SWITCH, IGNITION, 6 POST
16-1	5022789	1	KEY, IGNITION MOLDED SET -(SV)
16-2	5022790	1	COVER, PLASTIC, SNAP ON -(SV)
16-3	5022791	1	PLASTIC NUT -(SV)
17	5103809	1	LIGHT, INDICATOR, PANEL, LED, RED -(EFI Models)
18	5046501	1	CABLE, Choke Control, 47" -(Briggs & Stratton Carbureted Models Only)
19	-----	1	PLATE, THROTTLE STOP (5412643) -(CE Models Only)

Footnotes:

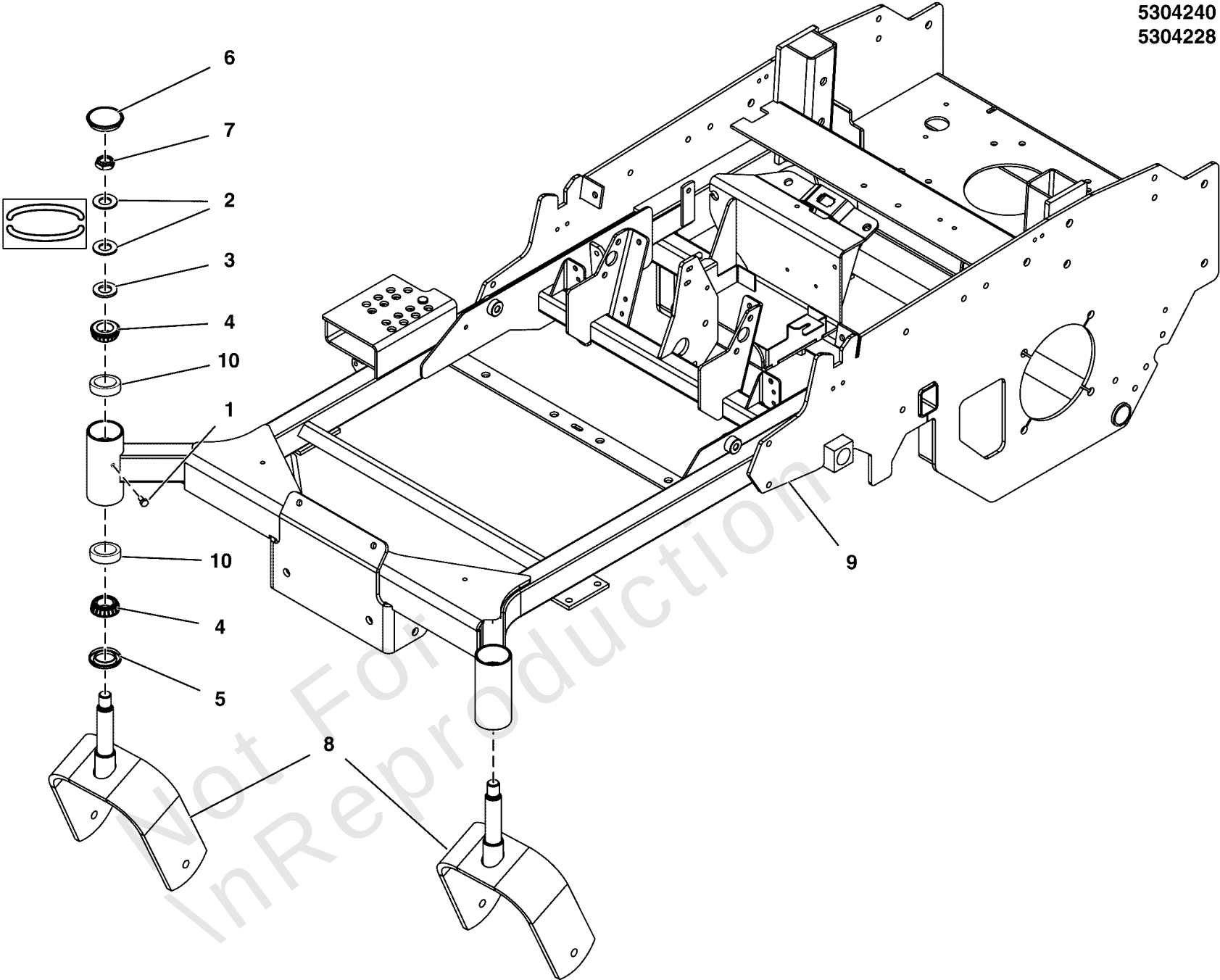
Note:* When replacing this hour meter, please call our service department at 1 (800) 933-6175

Main Frame & Front Casters

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5304240
5304228



Main Frame & Front Casters

REF NO	PART NO	QTY	DESCRIPTION
1	5025457	2	BOLT, 1/4-28 X 1/2, GD5 CZ
2	5025449	4	WASHER, BELLEVILLE - 1.500 X .755
3	5025160	2	WASHER, 3/4" SAE
4	5020884	4	BEARING, TAPERED ROLLER, 1
5	5021072	2	SEAL, GREASE
6	5102929	2	CAP, LOW PROFILE, STEEL
7	5025448	2	NUT, 3/4-16, HEX JAM NYLON LOCK
8	5419196B	2	WELD, CASTER YOKE - RED
9	-----	1	* WELD, MAIN FRAME, F160Z - RED
10	5020883	4	CUP, BEARING -(SV)

Not For
InReproduction

Footnotes:

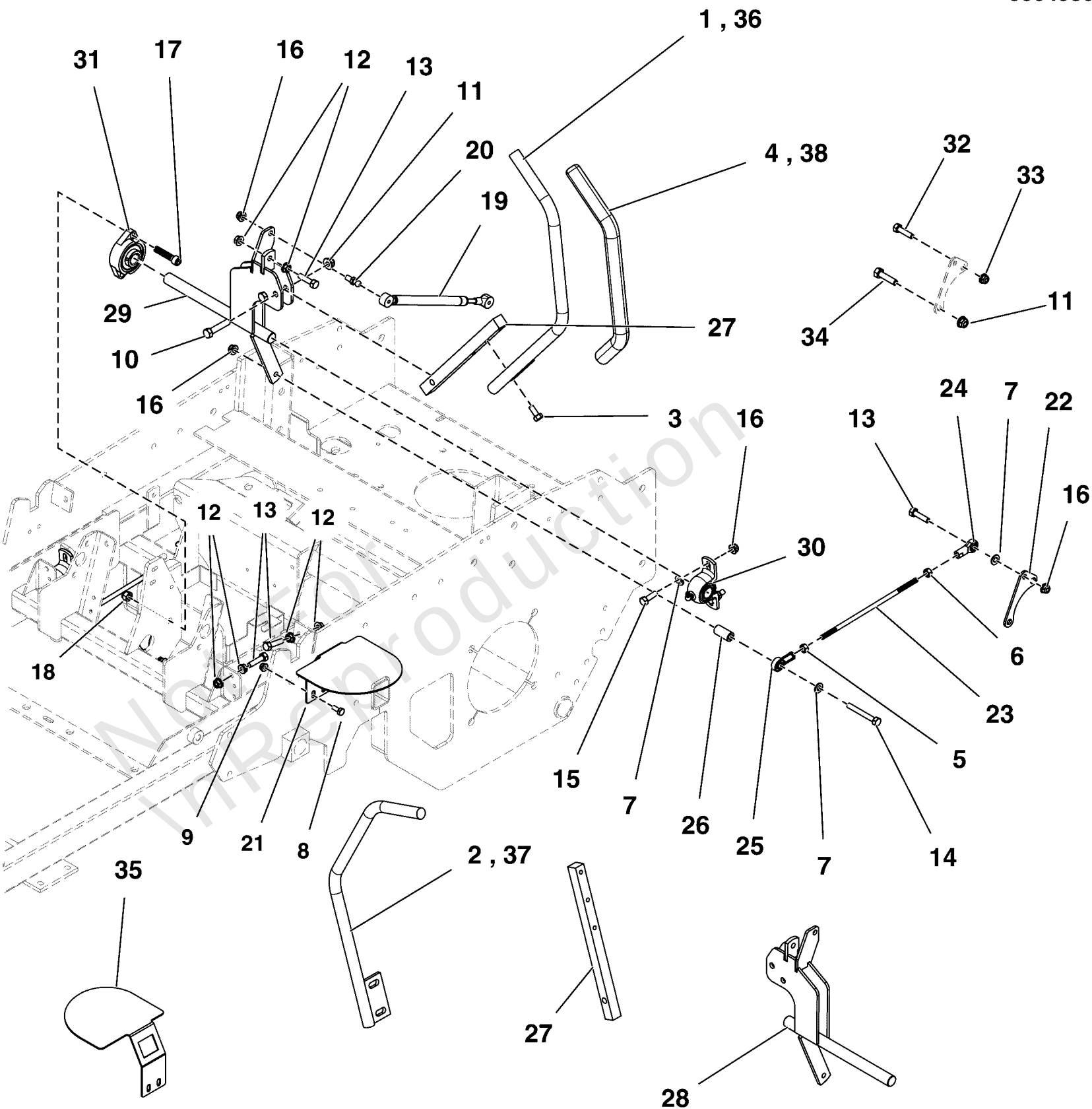
* If frame is damaged, call 1-800-933-6175 ext. 709

Motion Control Group - S/N: 2017724860 & Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5304386



Motion Control Group - S/N: 2017724860 & Below

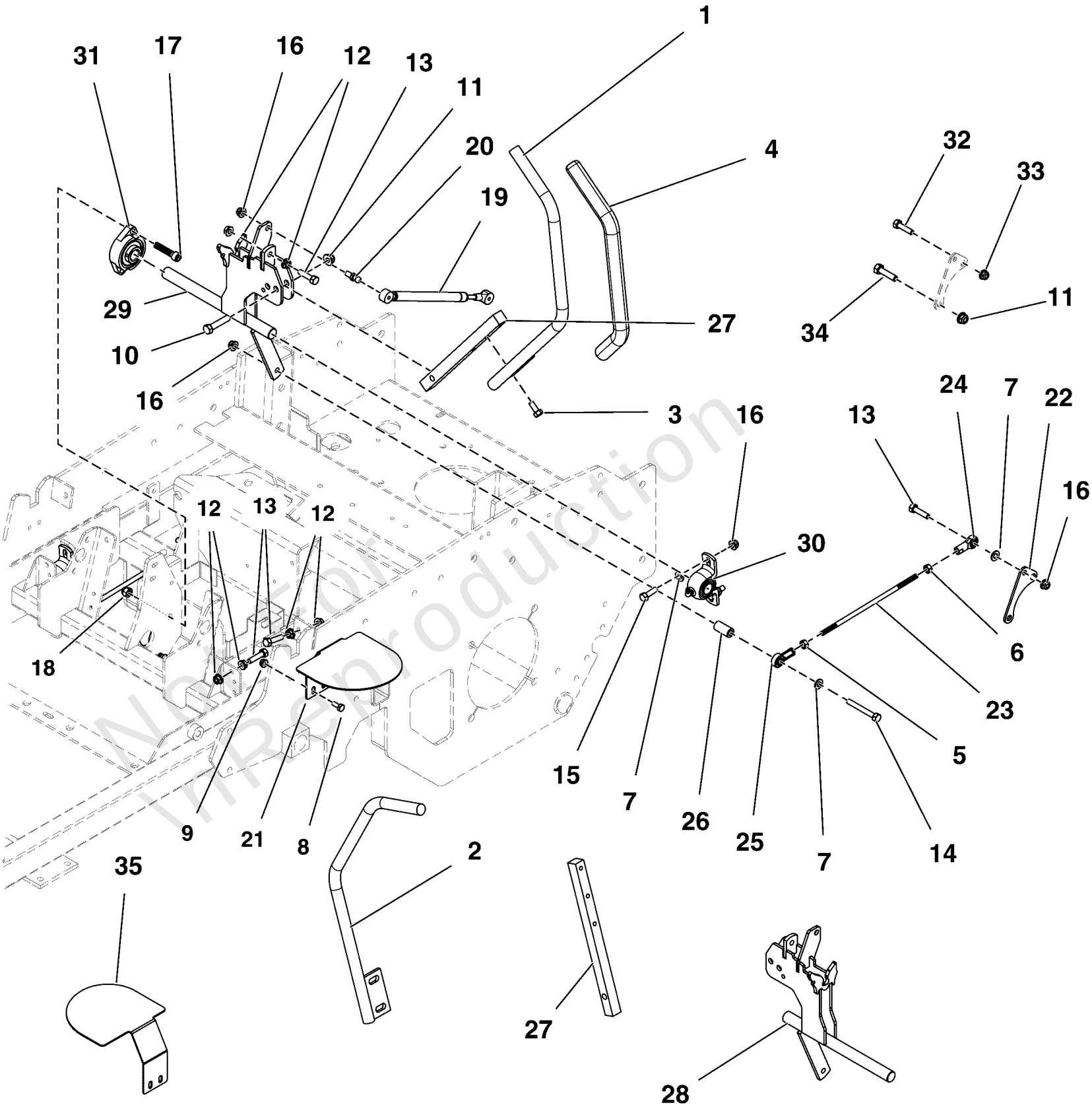
REF NO	PART NO	QTY	DESCRIPTION
1	5047055A	1	WELD, HANDLE MOTION CONTROL-LH - BLK -(S/N: 2017501538 & Below)
2	5047056A	1	WELD, HANDLE MOTION CONTROL-RH - BLK -(S/N: 2017501538 & Below)
3	80003531	4	SCREW, 5/16-18X0.750, GR5, WHIZ-LOCK, ZC
4	5022068	2	GRIP, FOAM, 3/4 ID, 16 LONG -(S/N: 2017501538 & Below)
5	5025033	2	NUT, 5/16-24 HEX
6	5023212	2	NUT, 5/16-24 HEX, LH
7	5025155	6	WASHER, 5/16" SAE
8	-----	4	HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR
9	5025391	4	NUT, 1/4-20 HEX NYLOCK FLANGE
10	5025013X14	4	BOLT, 3/8-16 X 1-3/4" GD5 CZ
11	5025394	6	NUT, 3/8-16 HEX NYLOCK FLANGE
12	5025127	14	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
13	5025011X10	8	BOLT, 5/16-18 X 1-1/4 GD5 YZ
14	5025011X20	2	BOLT, 5/16-18 X 2-1/2 GD5 YZ
15	5025011X8	6	BOLT, 5/16-18 X 1 GD5 YZ
16	5025392	12	NUT, 5/16-18 HEX NYLOCK FLANGE
17	5025478	2	BOLT, 3/8-16 X 1-3/4, SHCS, YZ
18	5025096	6	NUT, 3/8-16 HEX NYLON LOCK
19	5100940	2	DAMPENER, CONTROL, #(P6709/P3610)
20	5100941	4	BALL STUD, 5/16 X .50, # PC-477-2)
21	5414709A	1	PLATE, MOTION CONTROL SWITCH, F160Z LH - BLK
22	5405230A	2	PLATE, HYDRO CONNECTOR - BLK
23	5101135	2	ROD, HYDRO LINKAGE
24	5104578	2	BALL JOINT 5/16-24 RH FEMALE STAMPED STL
25	5104579	2	BALL JOINT 5/16-24 LH FEMALE STAMPED STL
26	5102599	2	SPACER, .33 X .63 X 1.25, CZ
27	5103106A	2	MOUNT, CONTROL ARM - BLK -(10.95" Total Length, 3 Adjustment Holes)
28	5411674A	1	WELD, CONTROL SHAFT, LH - BLK
29	5411675A	1	WELD, CONTROL SHAFT, RH - BLK
30	5101077	2	BEARING, 3/4" PILLOW BLOCK
31	5021499	2	BEARING, FLANGE
32	5025015X6	2	BOLT, 7/16-14 X 3/4, GD5 YZ
33	5025044	2	NUT, 7/16-14 HEX TOP LOCK
34	5025013X6	2	BOLT, 3/8-16 X 3/4" GD5 CZ
35	5414710A	1	PLATE, MOTION CONTROL SWITCH, F160Z RH - BLK
36	5414429A	1	WELD, HANDLE MOTION CNTRL, 17.0, 1.0, LH, BLK -(S/N: 2017501539 & Above)
37	5414430A	1	WELD, HANDLE MOTION CNTRL, 17.0, 1.0, RH, BLK -(S/N: 2017501539 & Above)
38	5104722	2	GRIP, FOAM, 1" ID, 16" LONG -(S/N: 2017501539 & Above)

Motion Control Group - S/N: 2017724861 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5304386A



Motion Control Group - S/N: 2017724861 & Above

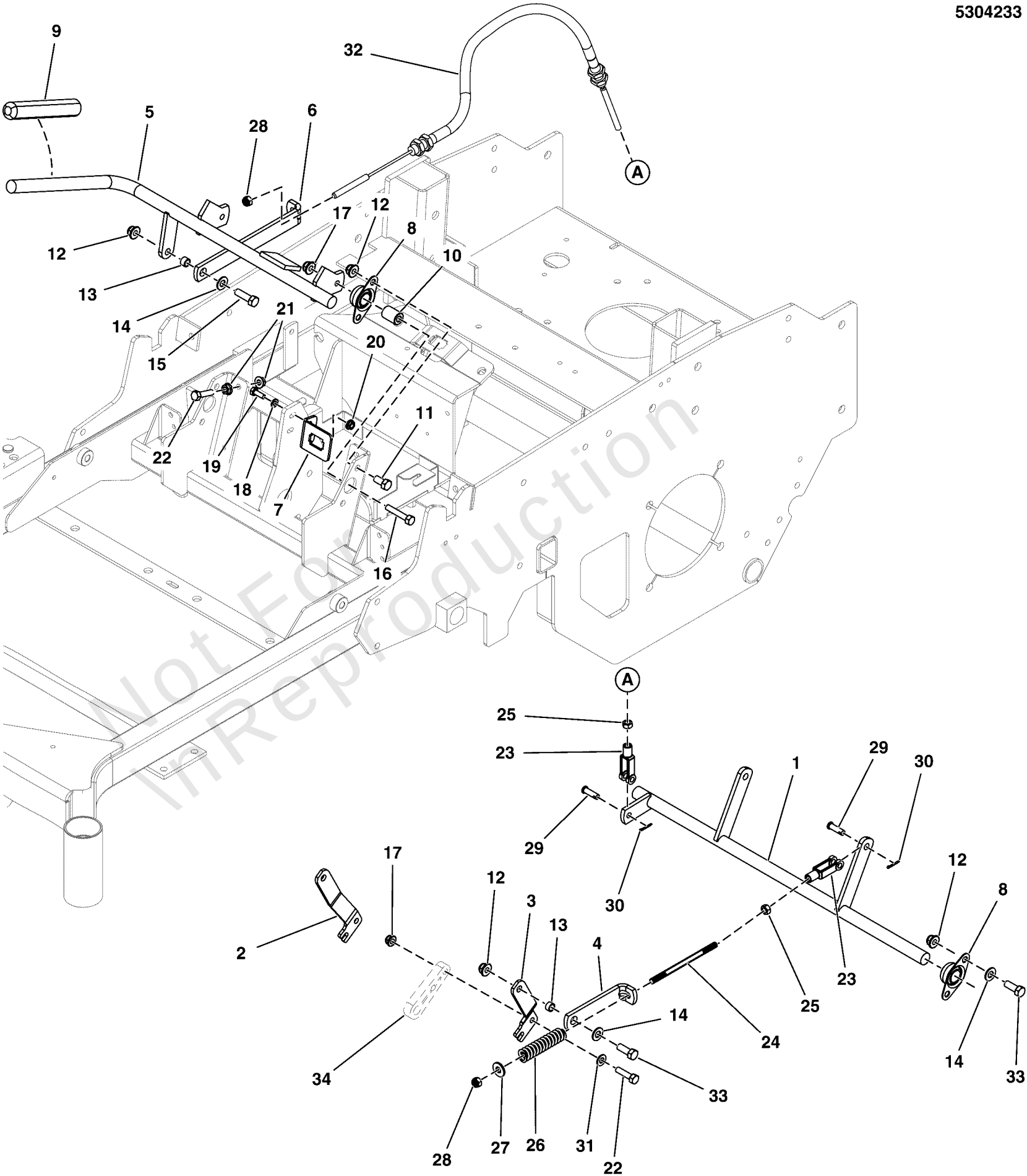
REF NO	PART NO	QTY	DESCRIPTION
1	5414429A	1	WELD,HANDLE MOTION CNTRL,17.0,1.0,LH,BLK
2	5414430A	1	WELD,HANDLE MOTION CNTRL,17.0,1.0,RH,BLK
3	80003531	4	SCREW, 5/16-18x0.750, GR5, WHIZ-LOCK, ZC
4	5104722	2	GRIP, FOAM, 1" ID, 16" LONG
5	5025033	2	NUT, 5/16-24 HEX
6	5023212	2	NUT, 5/16-24 HEX, LH
7	5025155	6	WASHER, 5/16" SAE
8	-----	4	HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR
9	5025391	4	NUT, 1/4-20 HEX NYLOCK FLANGE
10	5025013X14	4	BOLT, 3/8-16 X 1-3/4" GD5 CZ
11	5025394	6	NUT, 3/8-16 HEX NYLOCK FLANGE
12	5025127	14	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
13	5025011X10	8	BOLT, 5/16-18 X 1-1/4 GD5 CZ
14	5025011X20	2	BOLT, 5/16-18 X 2-1/2 GD5 CZ
15	5025011X8	6	BOLT, 5/16-18 X 1 GD5 CZ
16	5025392	12	NUT, 5/16-18 HEX NYLOCK FLANGE
17	5025478	2	BOLT, 3/8-16 X 1-3/4, SHCS, CZ
18	5025096	6	NUT, 3/8-16 HEX NYLON LOCK
19	5100940	2	DAMPENER, CONTROL,#(P6709/P3610)
20	5100941	4	BALL STUD, 5/16 X .50,# PC-477-2)
21	5416415A	1	PLATE, MOTION CONTROL VOID FILL, LH -BLK
22	5405230A	2	PLATE, HYDRO CONNECTOR - BLK
23	5101135	2	ROD, HYDRO LINKAGE
24	5104493	2	BALL JOINT 5/16-24 RH FEMALE BRONZE RACE
25	5104494	2	BALL JOINT 5/16-24 LH FEMALE BRONZE RACE
26	5102599	2	SPACER, .33 X .63 X 1.25, PM, CZ
27	5103106A	2	MOUNT, CONTROL ARM - BLK -(10.95" Total Length, 3 Adjustment Holes)
28	5415917A	1	WELD, CONTROL SHAFT, LH 150/160 - BLK
29	5415918A	1	WELD, CONTROL SHAFT, RH 150/160 - BLK
30	5101077	2	BEARING, 3/4" PILLOW BLOCK
31	5021499	2	BEARING, FLANGE
32	5025015X6	2	BOLT, 7/16-14 X 3/4, GD 5 CZ
33	5025044	2	NUT, 7/16-14 HEX TOP LOCK
34	5025013X6	2	BOLT, 3/8-16 X 3/4" GD5 CZ
35	5416414A	1	PLATE, MOTION CONTROL VOID FILL, RH -BLK

Parking Brake Group S/N: 2017612394 & Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5304233



Parking Brake Group S/N: 2017612394 & Below

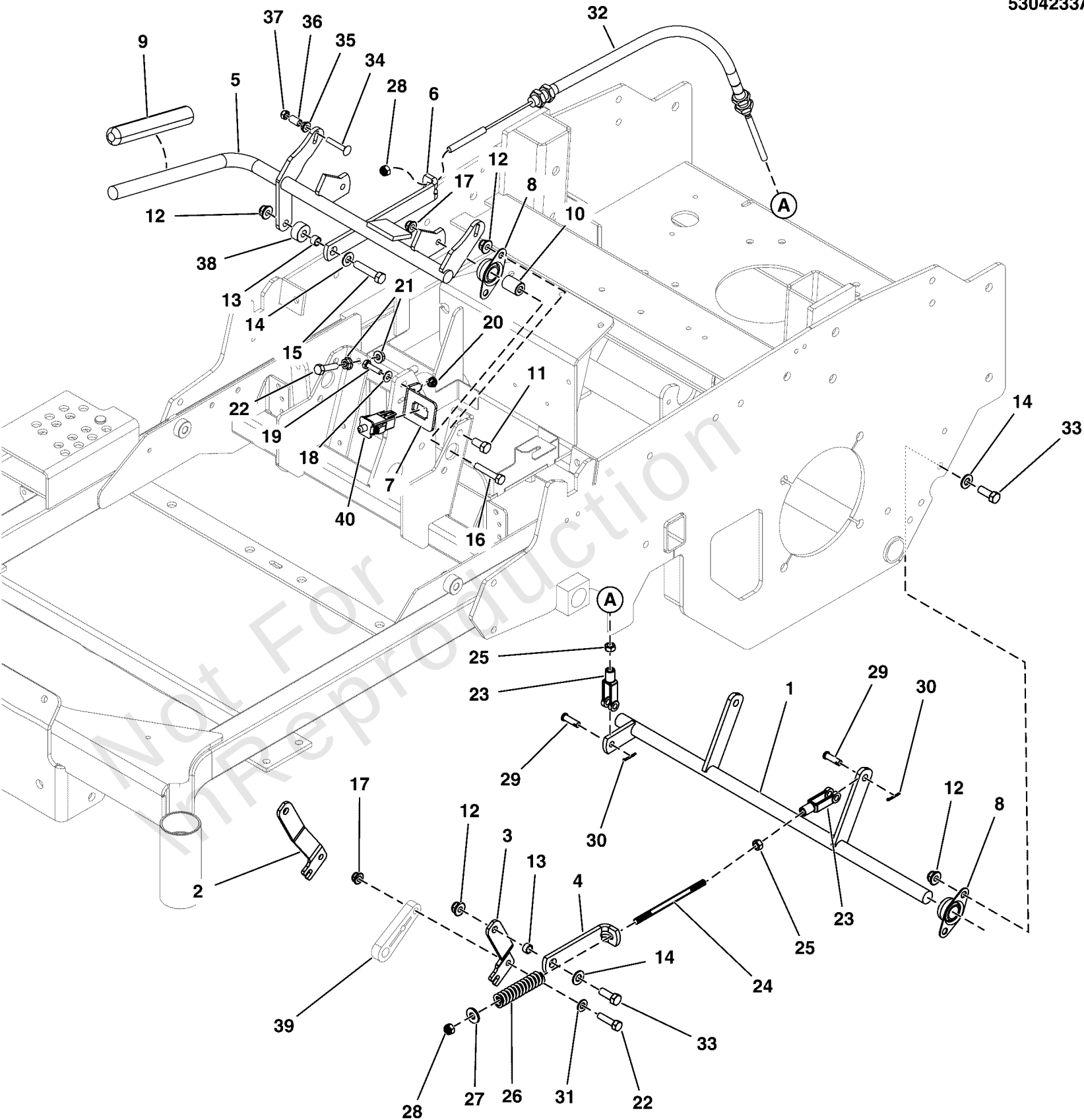
REF NO	PART NO	QTY	DESCRIPTION
1	5414107A	1	WELD, BRAKE SHAFT, 150XT - BLK
2	5414101A	1	PLATE, RIGHT BRAKE, 150XT - BLK
3	5414100A	1	PLATE, LEFT BRAKE, 150XT - BLK
4	5414099A	2	LINK, BRAKE LOCK, 150XT - BLK
5	5411649A	1	WELD, BRAKE SHAFT - BLK
6	5407401A	1	LINK, BRAKE LOCK - BLK
7	5407335A	1	BRACKET, SWITCH MOUNT - BLK
8	5021098	4	BEARING, BRONZE FLANGE, 3/4"
9	5101038	1	GRIP, FOAM, 3/4 ID X 6 X .187
10	5042134	2	SPACER, .32 X .75 X 1.06, PM
11	5025013X6	4	BOLT, 3/8-16 X 3/4" GD5 CZ
12	5025394	11	NUT, 3/8 - 16 HEX NYLOCK FLANGE
13	5102289	3	SPACER, .38 X .50 X .31, CZ
14	5025156	7	WASHER, 3/8 SAE
15	5025013X10	1	BOLT, 3/8-16 X 1-1/4" GD5 CZ
16	5025011X14	4	BOLT, 5/16-18 X 1-3/4" GD5 YZ
17	5025392	8	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
18	5025154	2	WASHER, 1/4 SAE
19	5025010X6	2	BOLT, 1/4"-20 X 3/4" GD5 YZ
20	5025126	2	NUT, Hex, Serrated Flange, 1/4-20
21	5025127	2	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
22	5025011X10	3	BOLT, 5/16-18 X 1-1/4" GD5 YZ
23	5023323	3	CLEVIS, 5/16-24, STEEL, CLEAR ZINC
24	5104622	2	ROD, BRAKE PULL, S150XT
25	5025033	3	NUT, Hex, 5/16-24
26	5100385	2	SPRING, COMP. 1/2 ID X .140 WIRE X 3.25
27	5025337	2	WASHER, 5/16" USS
28	5025045	3	NUT, Hex, Nylon Lock, 5/16-24
29	5025213X8	3	PIN, CLEVIS, 5/16 X 1, PLATED
30	80002736	3	PIN, 3/32 X 0.750, COT, ZINC/CLEAR
31	5025155	2	WASHER, 5/16" SAE
32	5100115	1	CABLE, PARKING BRAKE IS2000
33	5025013X8	6	BOLT, 3/8-16 X 1" GD5 CZ
34	-----	1	Refer to: Hydraulic Group

Parking Brake Group S/N: 2017612395 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5304233A



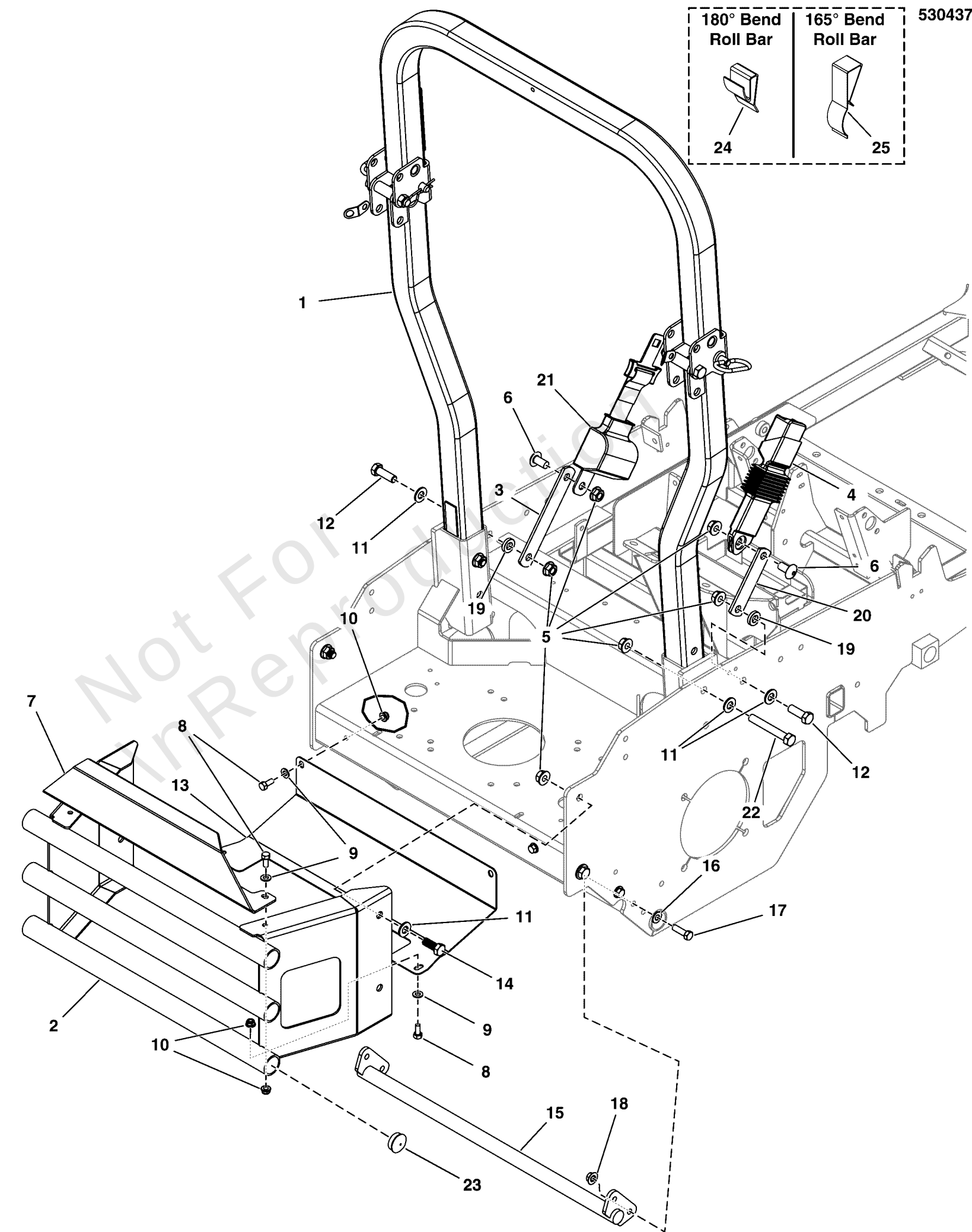
Parking Brake Group S/N: 2017612395 & Above

REF NO	PART NO	QTY	DESCRIPTION
1	5414107A	1	WELD, BRAKE SHAFT, 150XT - BLK
2	5414101A	1	PLATE, RIGHT BRAKE, 150XT - BLK
3	5414100A	1	PLATE, LEFT BRAKE, 150XT - BLK
4	5414099A	2	LINK, BRAKE LOCK, 150XT - BLK
5	5415941A	1	WELD, BRAKE SHAFT - BLK
6	5407401A	1	LINK, BRAKE LOCK - BLK
7	5407335A	1	BRACKET, SWITCH MOUNT - BLK
8	5021098	4	BEARING, BRONZE FLANGE, 3/4"
9	5101038	1	GRIP, FOAM, 3/4 ID X 6 X .187
10	5042134	2	SPACER, .32 X .75 X 1.06, PM
11	5025013X6	4	BOLT, 3/8-16 X 3/4" GD5 CZ
12	5025394	10	NUT, 3/8 - 16 HEX NYLOCK FLANGE
13	5102289	3	SPACER, .38 X .50 X .31, CZ
14	5025156	7	WASHER, 3/8 SAE
15	5025013X12	1	BOLT, 3/8-16 X 1-1/2" GD5 CZ
16	5025011X14	2	BOLT, 5/16-18 X 1-3/4" GD5 YZ
17	5025392	8	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
18	5025154	2	WASHER, 1/4 SAE
19	5025010X6	2	BOLT, 1/4"-20 X 3/4" GD5 YZ
20	5025126	2	NUT, Hex, Serrated Flange, 1/4-20
21	5025127	2	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
22	5025011X10	3	BOLT, 5/16-18 X 1-1/4" GD5 YZ
23	5023323	3	CLEVIS, 5/16-24, STEEL, CLEAR ZINC
24	5104622	2	ROD, BRAKE PULL, S150XT
25	5025033	3	NUT, Hex, 5/16-24
26	5100385	2	SPRING, COMP. 1/2 ID X .140 WIRE X 3.25
27	5025337	2	WASHER, 5/16" USS
28	5025045	3	NUT, Hex, Nylon Lock, 5/16-24
29	5025213X8	3	PIN, CLEVIS, 5/16 X 1, PLATED
30	80002736	3	PIN, 3/32 X 0.750, COT, ZINC/CLEAR
31	5025155	3	WASHER, 5/16" SAE
32	5100115	1	CABLE, PARKING BRAKE IS2000
33	5025013X8	6	BOLT, 3/8-16 X 1" GD5 CZ
34	80003564	2	BOLT, 1/4-20 X 1.500, GR5, SQ, ZINC/CLEAR
35	5025126	2	NUT, Hex, Serrated Flange, 1/4-20
36	5041483	2	SPACER, .52 X .38 X .63, CZ
37	5025095	2	HUT, HEX NYLON LOCK, 1/4x20"
38	5044960	1	SPACER, .39 X 1.00 X .25, PM, CZ
39	-----	1	Refer to: Hydraulic Group
40	-----	1	Refer to: Electrical Group

Rear Bumper & ROPS Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516



Rear Bumper & ROPS Group

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	ROLL BAR -(Refer to Note: *)
2	5414644B	1	WELD, BUMPER, F160Z - RED
3	5410295A	1	BAR, MOUNT, SEAT BELT, IS700Z - BLK -(S/N: 4000051453 and below)
4	5105137	1	SEAT BELT ASSM, RETRACTOR + SUP SLEEVE -(S/N: 4000051453 and below)
5	5025396	4	NUT, Hex Flange, Nylock, 1/2-13 -(Qty: 12 - S/N: 4000051453 and below)
6	5100267	2	SCREW, 1/2-13 X 1.00, SHCS -(S/N: 4000051453 and below)
7	5414688B	1	PLATE, CARB PROTECTOR, F160Z - RED
8	5025011X6	6	BOLT, 5/16-18 X 3/4 GD5
9	5025155	6	WASHER, 5/16" SAE
10	5025392	6	NUT, 5/16-18 HEX NYLOCK FLANGE
11	5025158	3	WASHER, 1/2 SAE -(Qty: 9 - S/N: 4000051453 and below)
12	5025017X12	2	BOLT, 1/2-13 X 1-1/2 GD5 CZ
13	5414689A	1	PLATE, HEAT SHIELD, F160Z - BLK
14	5025017X10	4	BOLT, 1/2-13 X 1-1/4 GD5 CZ
15	5411945B	1	WELD, BUMPER, REAR BRAKE - RED
16	5025156	4	WASHER, 3/8 SAE
17	5025013X10	4	BOLT, 3/8-16 X 1-1/4" GD5 CZ
18	5025128	4	NUT, 3/8-16 HEX SERRATED FLANGE
19	5100520	2	SPACER, .52 X 1.00 X .22, PM, CZ -(S/N: 4000051453 and below)
20	5401044A	1	EXTENSION, SEAT BELT - BLK -(S/N: 4000051453 and below)
21	-----	1	ORDER P/N 5105137 (CONTAINS BOTH SEAT BELT RETRACTOR & SUPER SLEEVE BUCKLE) -(S/N: 4000051453 and below)
22	5025017X28	4	BOLT, 1/2-13 X 3-1/2, HEX HD, GD5, CZ (SV)
23	5023484	6	PLUG, PANEL, 1.25 - BLACK
24	5103403X1	2	ANTI-RATTLE SPRING, FEMCO #230328972 (SV) -(180 Degree Bend Roll Bar)
25	5105140X1	2	ANTI-RATTLE SPRING, ROPS, 165 DEGREE (SV) -(165 Degree Bend Roll Bar)

Footnotes:

Note: *Contact the Service Department at 1-800-933-6175 for roll bar replacement parts. You must provide the serial number of the roll bar system.

Seat Mount and Floor Group S/N: 2017724860 and Below

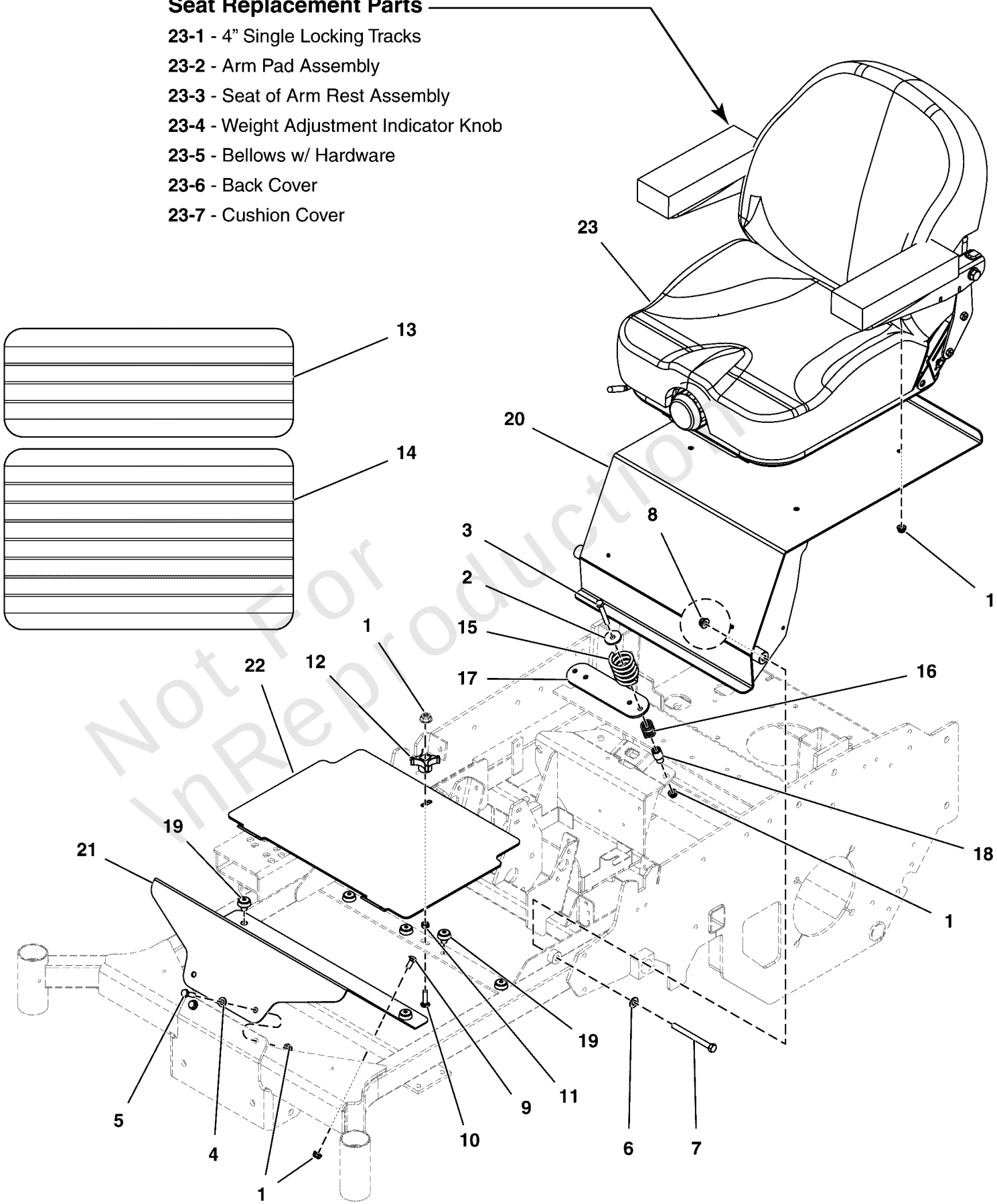
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5304375

Seat Replacement Parts

- 23-1 - 4" Single Locking Tracks
- 23-2 - Arm Pad Assembly
- 23-3 - Seat of Arm Rest Assembly
- 23-4 - Weight Adjustment Indicator Knob
- 23-5 - Bellows w/ Hardware
- 23-6 - Back Cover
- 23-7 - Cushion Cover



Seat Mount and Floor Group S/N: 2017724860 and Below

REF NO	PART NO	QTY	DESCRIPTION
1	5025392	11	NUT, 5/16-18 HEX NYLOCK FLANGE
2	5044617	2	WASHER, .34 X 1.25 X 10 GA
3	5025011X18	2	BOLT, 5/16-18 X 2-1/4 GD5 YZ
4	5025155	2	WASHER, 5/16" SAE
5	5025011X8	2	BOLT, 5/16-18 X 1 GD5 YZ
6	5025156	2	WASHER, 3/8 SAE
7	5025013X32	2	BOLT, 3/8-16 X 4" GD5 CZ
8	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
9	5025145X6	2	BOLT, 5/16-18 X 3/4, CARRIAGE
10	5025145X10	1	BOLT, 5/16-18 X 1-1/4, CARRIAGE YZ
11	80003675	1	NUT, 5/16-18, HEX, CNTR LK,ZINC PHOS/OIL
12	1670578	1	KNOB-INT THR .312-18 4-ARM 2.12WD 1.06LG
13	5101374	1	SAFETY WALK, FLOOR REST, 6.00 X 16.00
14	5101333	1	SAFETY WALK, FLOOR PLATE, S50X, 10X16
15	7078299	2	SPRING, SEAT SUPPORT
16	5102211	2	SPRING, COMP 720ID X 1.310LG X .118WIRE
17	5402732B	1	PLATE, SEAT SWITCH - RED
18	5102228	2	SPACER, .33 X .66 X 1.31 SHLDR, CZ
19	197546	6	MNT, VBRTN, RBBR
20	5600919	1	ASSM, SEAT PLATE W/DECALS, F160Z-DOM (5413405B)
21	5410774B	1	PLATE, FLOOR, NON REMOVABLE - RED
22	5410296B	1	PLATE, FLOOR, REMOVABLE, S125XT - RED
23	5104720	1	SEAT, MID BACK W/SUSPENSION, SEATS INC
23-1	5104720X1	1	4" SINGLE LOCKING TRACKS BASE -(SV)
23-2	5104719X1	1	ARM PAD ASSEMBLY BLK/CHAR CAR FIB/HARBR GRY RED WELT -(SV)
23-3	5104719X2	1	SET OF ARMREST ASSEMBLY BLK/CHAR CAR FIB/HARBR GRY RED WELT -(SV)
23-4	5104720X2	1	WEIGHT ADJUST INDICATOR KNOB ASSY BASE -(SV)
23-5	5104720X3	1	BELLOWS W/ HARDWARE BASE -(SV)
23-6	5104720X4	1	BACK COVER FOR FIXED BACK I3M BLK/CHAR CAR FIB/HARBR GRY RED WELT -(SV)
23-7	5104720X5	1	CUSHION COVER FOR I3M BLK/CHAR CAR FIB/HARBR GRY RED WELT -(SV)

Seat Mount and Floor Group S/N: 2017724861 to 4000906453

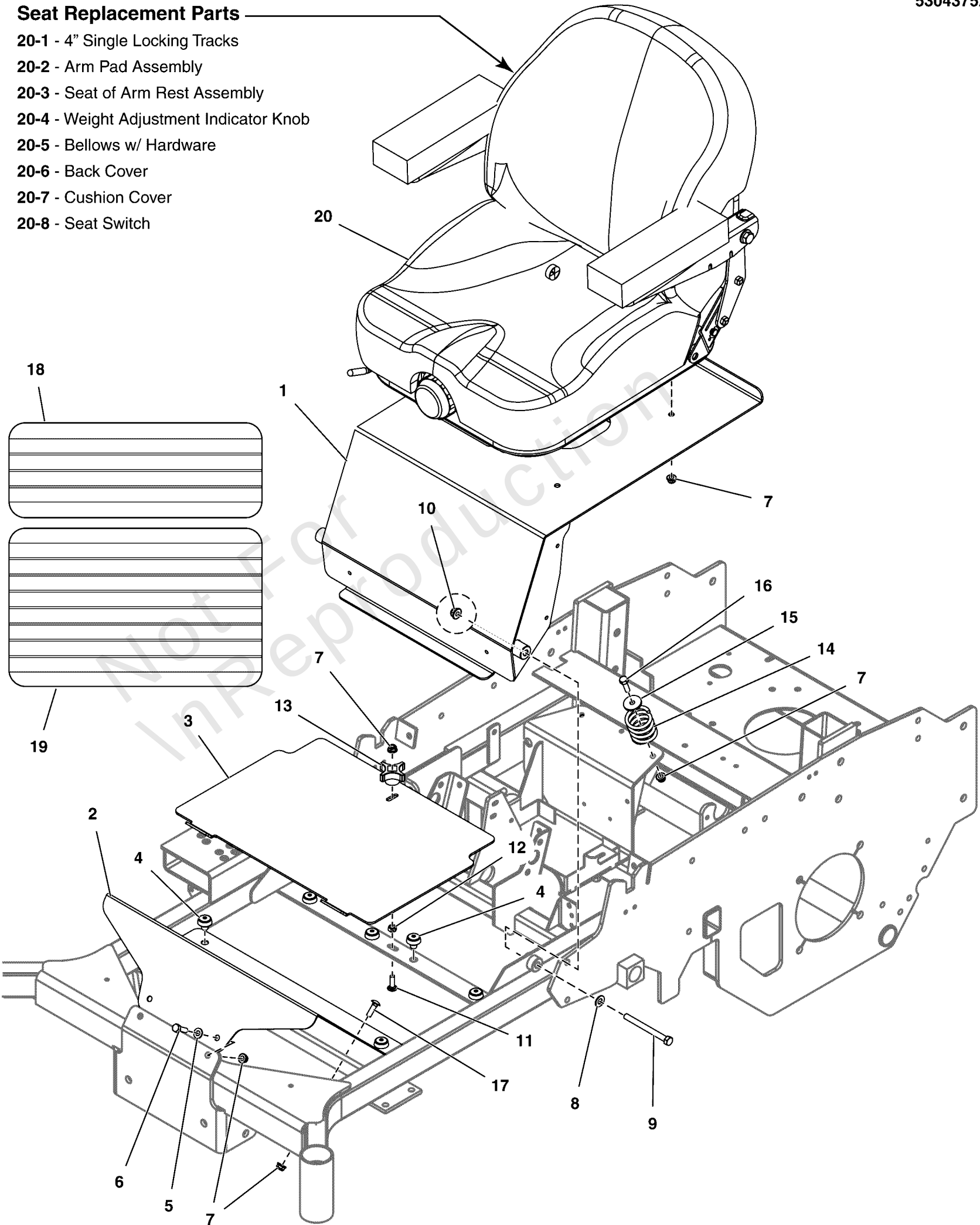
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

5304375A

Seat Replacement Parts

- 20-1 - 4" Single Locking Tracks
- 20-2 - Arm Pad Assembly
- 20-3 - Seat of Arm Rest Assembly
- 20-4 - Weight Adjustment Indicator Knob
- 20-5 - Bellows w/ Hardware
- 20-6 - Back Cover
- 20-7 - Cushion Cover
- 20-8 - Seat Switch



Seat Mount and Floor Group S/N: 2017724861 to 4000906453

REF NO	PART NO	QTY	DESCRIPTION
1	5601053	1	ASSM, SEAT PLATE W/DECALS, F160Z-CE -(5416276B)
2	5410774B	1	PLATE, FLOOR, NON REMOVABLE - RED
3	5410296B	1	PLATE, FLOOR, REMOVABLE, S125XT - RED
4	197546	8	MNT, VBRTN, RBBR
5	5025155	2	WASHER, 5/16" SAE
6	5025011X8	2	BOLT, 5/16-18 X 1" GRD5 YZ
7	5025392	7	NUT, 5/16-18 HEX NYLOCK FLANGE NUT -(Refer to Note: *)
8	5025156	2	WASHER, 3/8 SAE
9	5025013X32	2	BOLT, 3/8-16 X 4" GD5 CZ
10	5025394	2	NUT, 3/8 - 16 HEX NYLOCK FLANGE
11	5025145X10	1	BOLT, 5/16-18 X 1-1/4, CARRIAGE, GD5, CZ
12	80003675	1	NUT, 5/16-1/8, HEX, CNTR LK, ZINC PHOS/OIL
13	1670578	1	KNOB-INT THR .312-18 4-ARM 2.12WD 1.06LG
14	7078299	2	SPRING, SEAT SUPPORT
15	5044617	2	WASHER, .34 X 1.25 X 10 GA
16	5025011X12	2	BOLT, 5/16-18 X 1-1/2" GD5 YZ
17	5025145X6	2	BOLT, 5/16-18 X 3/4, CARRIAGE, GD5, CZ
18	5101374	1	SAFETY WALK, FLOOR REST, 16.00 X 6.00
19	5101333	1	SAFETY WALK, FLOOR PLATE, S50X, 10X17.13
20	5105096	1	SEAT, MID BACK, SUSP SEAT'SINC, W/SWITCH
20-1	5104720X1	1	4" SINGLE LOCKING TRACKS BASE -(SV)
20-2	5104719X1	1	ARM PAD ASSEMBLY BLK/CHAR CAR FIB/HARBR GRY RED WELT -(SV)
20-3	5104719X2	1	SET OF ARMREST ASSEMBLY BLK/CHAR CAR FIB/HARBR GRY RED WELT -(SV)
20-4	5104720X2	1	WEIGHT ADJUST INDICATOR KNOB ASSY BASE -(SV)
20-5	5104720X3	1	BELLOWS W/ HARDWARE BASE -(SV)
20-6	5104720X4	1	BACK COVER FOR FIXED BACK I3M BLK/CHAR CAR FIB/HARBR GRY RED WELT -(SV)
20-7	5104720X5	1	CUSHION COVER FOR I3M BLK/CHAR CAR FIB/HARBR GRY RED WELT -(SV)
20-8	7023354	1	SWITCH, SEAT -(SV)

Footnotes:

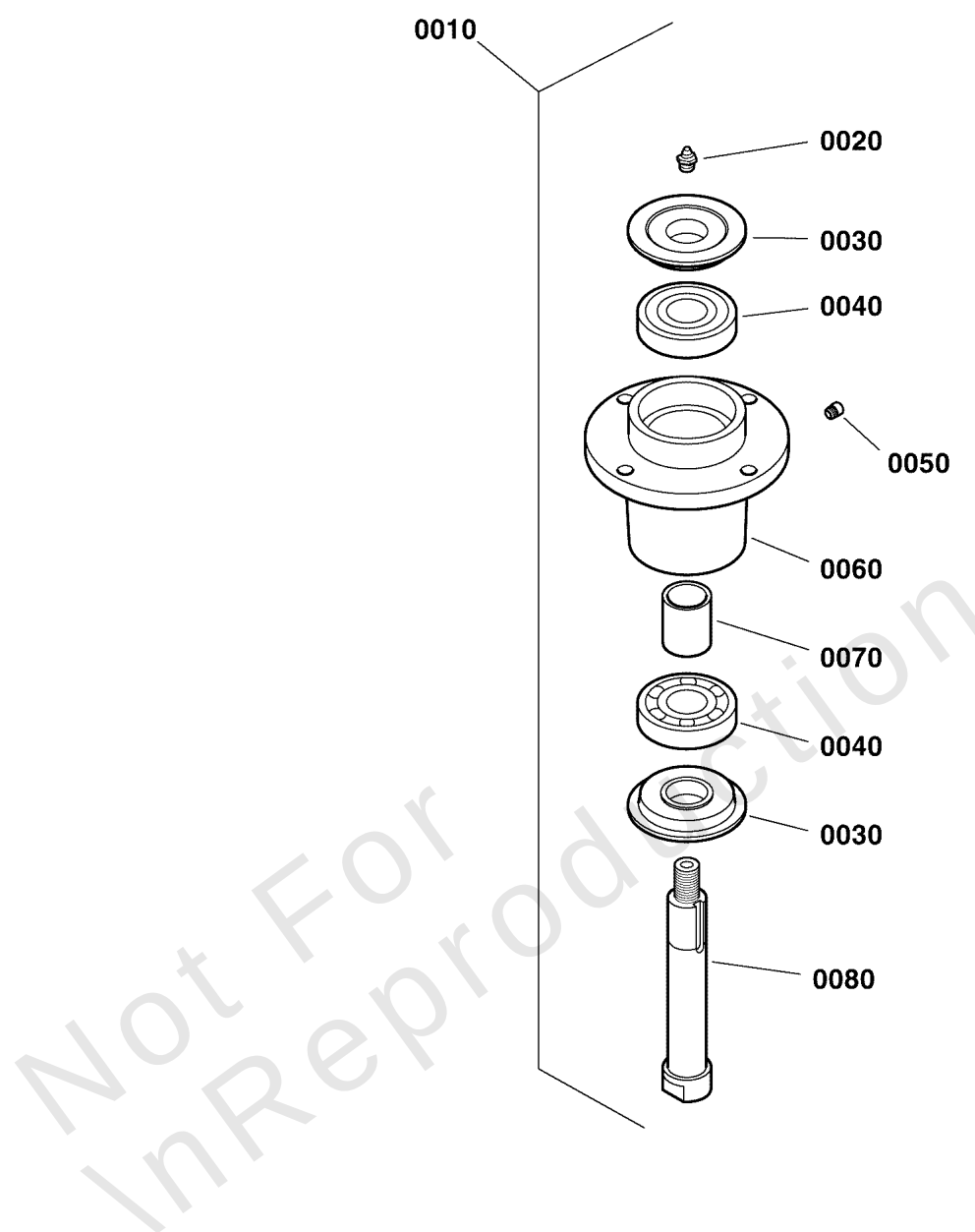
Note: *Older models featured a nut on top of the knob.

Spindle SERVICE PARTS - 5061095

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901516

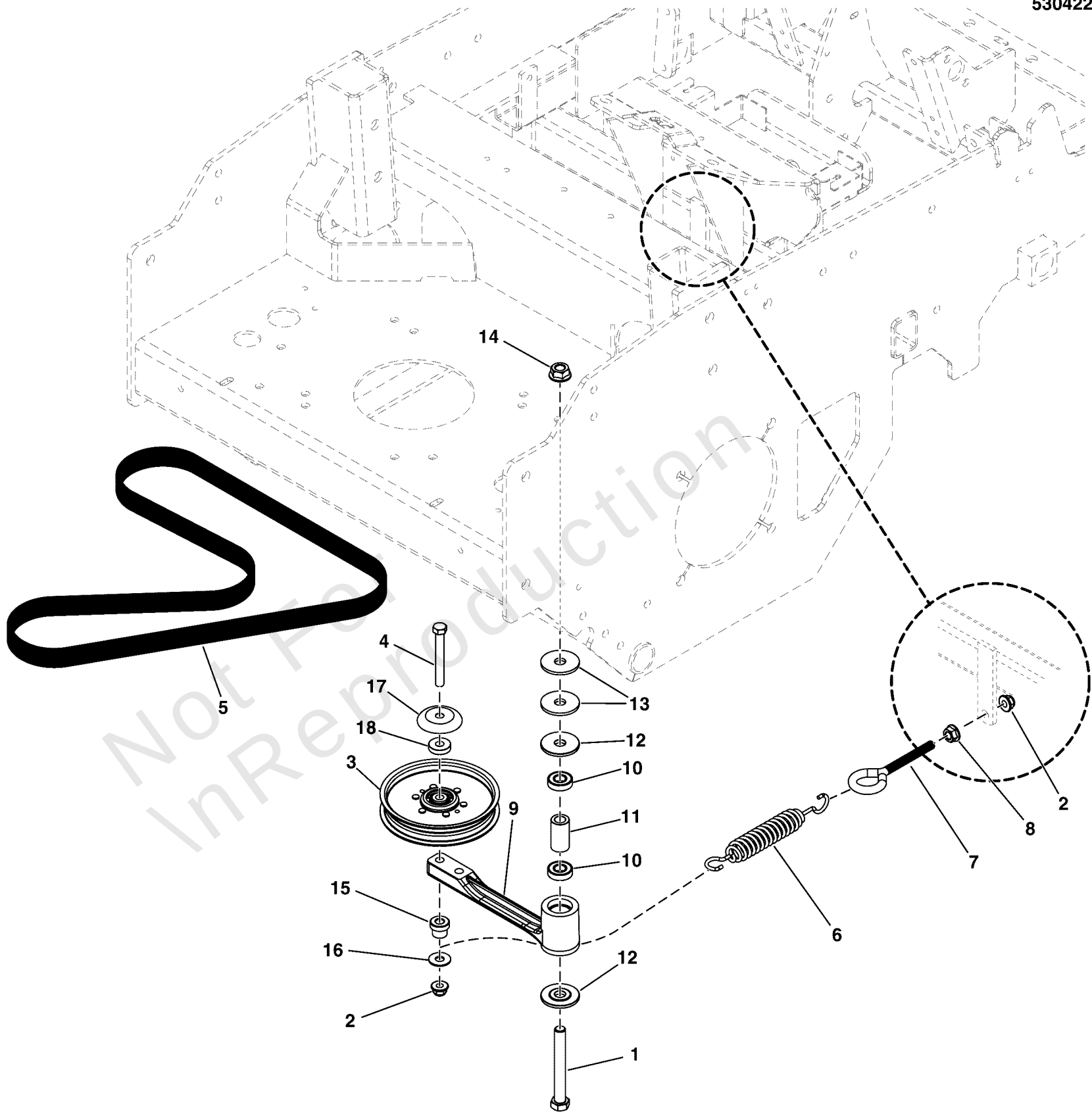
5061095



Spindle SERVICE PARTS - 5061095

REF NO	PART NO	QTY	DESCRIPTION
0010	5061095	1	SPINDLE, ASSM, ALUMINUM - 5.25 -(Nut and Washer Sold Separately) (Includes items #0020 - 0080)
0020	5023329	1	FITTING, 1/8 NPT STR, SHORT
0030	5049793	2	TRASH SHIELD
0040	5023330	2	BEARING, .98 X 2.44 X .67
0050	5023296	1	FITTING, RELIEF, 1-5 PSI
0060	5061097	1	HOUSING, SPINDLE
0070	5061099	1	SPACER, 1.00 X 1.25 X 1.75
0080	5061098	1	SPINDLE SHAFT

5304229



Transaxle Drive Group

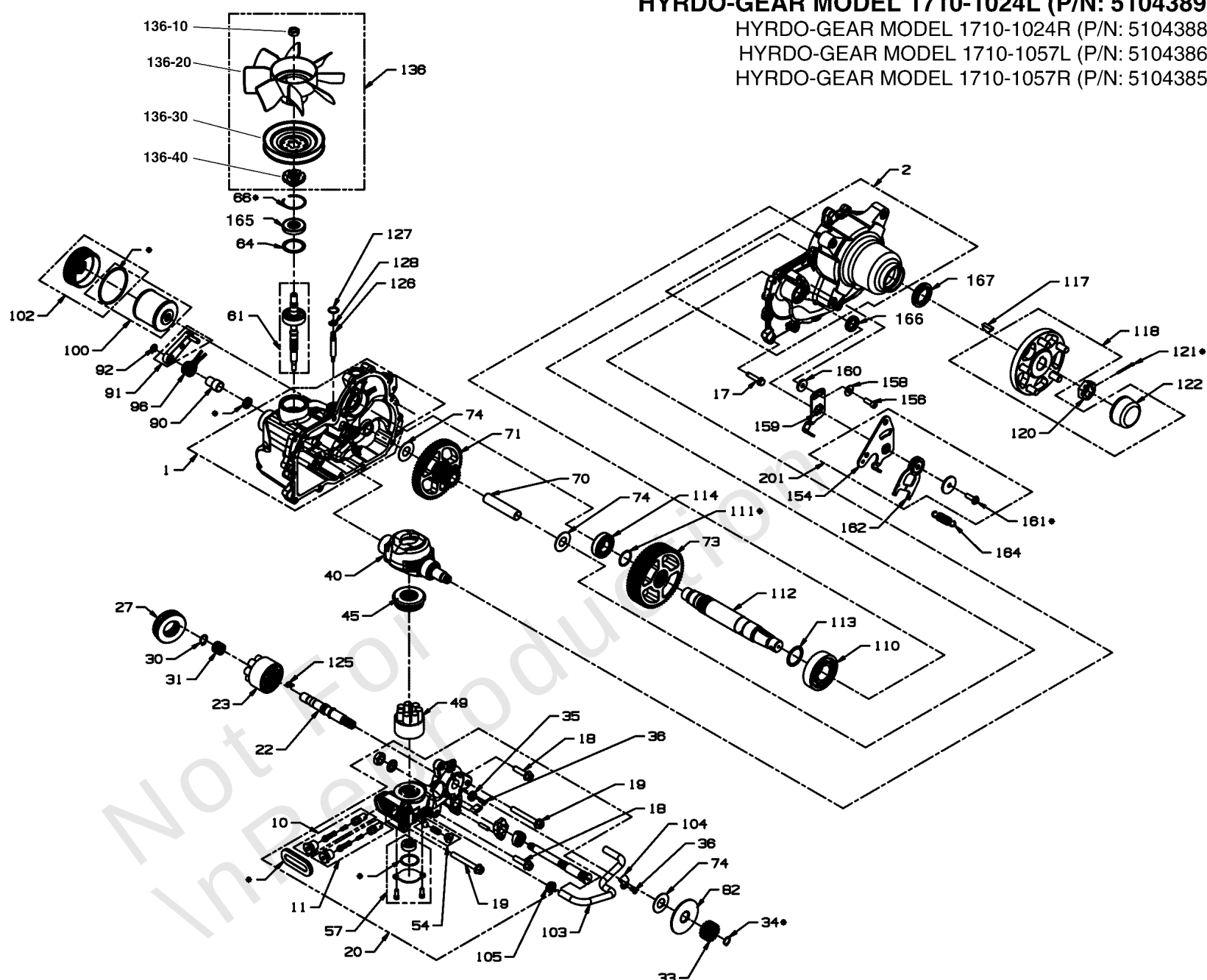
REF NO	PART NO	QTY	DESCRIPTION
1	5025017X32	1	BOLT, 1/2-13 X 4" GD5 CZ
2	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
3	5101193	1	PULLEY-IDLER, 5.00OD, .385ID, .75W, STL
4	5025013X28	1	BOLT, 3/8-16 X 3-1/2" GD5 CZ
5	5102767	1	BELT, HB, 65.1"EL
6	5022847	1	SPRING-EXT, 1.04 ODX6.935LGX.148WR, BLK
7	5023497	1	EYE BOLT, 3/8-16 X 5, 2.88THRD, 1EYE, CZ
8	5025128	1	NUT, 3/8-16 HEX SERRATED FLANGE
9	5411066	1	ASSM, IDLER ARM, PUMP DRIVE, 1/2ID, CAST (5101178A) -(Includes items #10 - 12)
10	7078243	2	BEARING, BALL, AXLE
11	5103812	1	SPACER, .52 X .84 X 1.53, PM
12	5103262	2	SPACER, IDLER ARM, 1/2, PM
13	5103282	2	WASHER, .52 X 1.75 X .14, CZ
14	5025396	1	NUT, Hex Flange, Nylock, 1/2-13
15	5023257	1	BUSHING, .38 X .88 X .73
16	5025401	1	WASHER, 3/8 USS
17	5103787	1	SHIELD, BEARING PULLEY, 3/8ID, CZ
18	5044960	1	SPACER, .39 X 1.00 X .25, PM, CZ

HYRDO-GEAR MODEL 1710-1024L (P/N: 5104389)

HYRDO-GEAR MODEL 1710-1024R (P/N: 5104388)

HYRDO-GEAR MODEL 1710-1057L (P/N: 5104386)

HYRDO-GEAR MODEL 1710-1057R (P/N: 5104385)



200 - SEAL KIT (*) PARTS INCLUDED IN SEAL KIT

Transaxle SERVICE PARTS - ZT4400

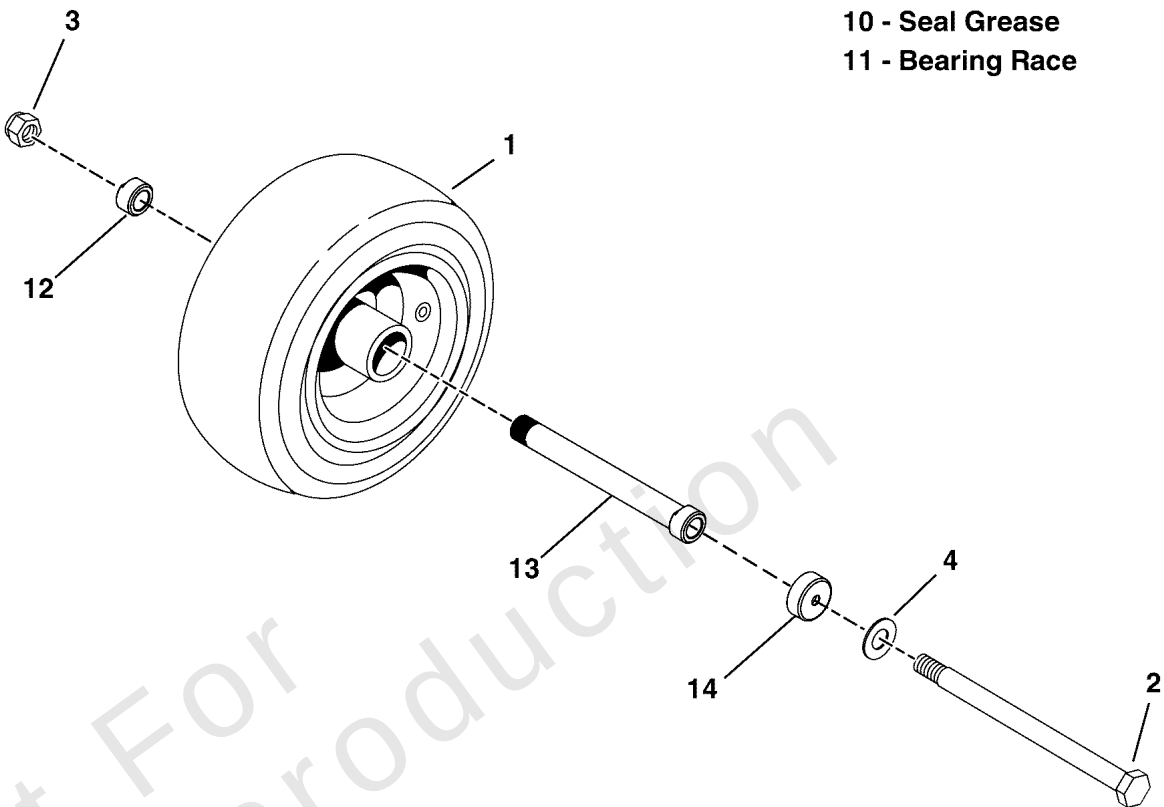
REF NO	PART NO	QTY	DESCRIPTION
61	5104385X3	1	KIT, INPUT SHAFT (BEARING & SHAFT ONLY) (SV) -(72523)
92	5104652	1	RETAINING RING, BRAKE ARM, ZT4400 (SV) -(53019)
100	5104385X1	1	KIT, FILTER (SV) -(72537)
118	5104385X7	1	KIT, HUB 5 BOLT (SV) -(72473)
122	5101987X5	1	AXLE CAP (SV) -(53724)
136	5104387	1	KIT, FAN/PULLEY (SV) -(72476)(Includes items 136-10, 136-20, 136-30, and 136-40)
136-10	5102916	1	NUT, ZT5400 -(44133)
136-20	5105330	1	FAN, ZT-4400, H/G#54084, SRSZ3 & IS2100 -(54084)
136-30	5105333	1	PULLEY, ZT-4400, H/G#54231, IS2100 -(54231)
136-40	5105332	1	HUB, ZT-4400, H/G#54087, SRSZ3 & IS2100 -(54087)
165	5104385X4	1	KIT, INPUT SEAL (SV) -(51092)
166	5104385X6	1	KIT, CONTROL ARM SEAL (SV) -(52989)
167	5104385X5	1	KIT, AXLE SEAL (SV) -(53008)
200	5104385X2	1	KIT, SEAL (SV) -(72523)

5304383

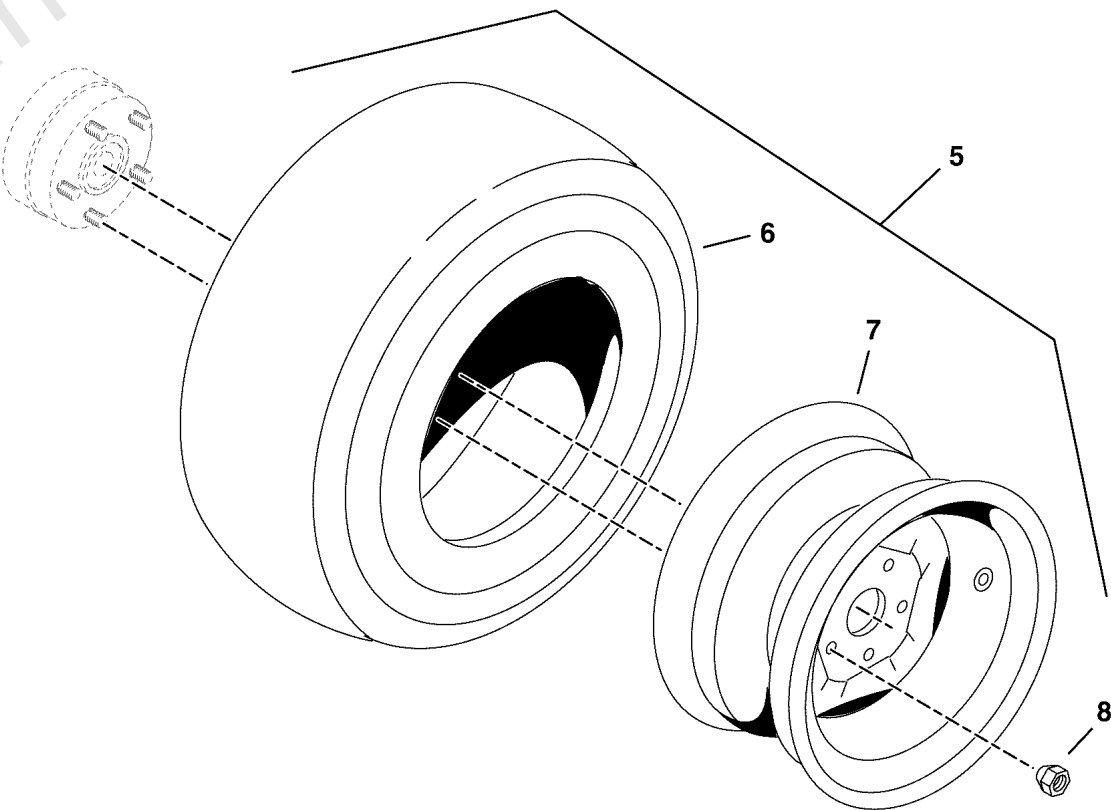
Front Wheels & Tires

Service Parts for 5023279:

- 9 - Bearing, Tapered Cone
- 10 - Seal Grease
- 11 - Bearing Race



Rear Wheels & Tires



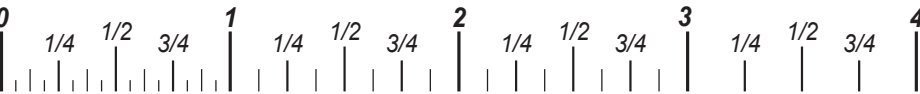
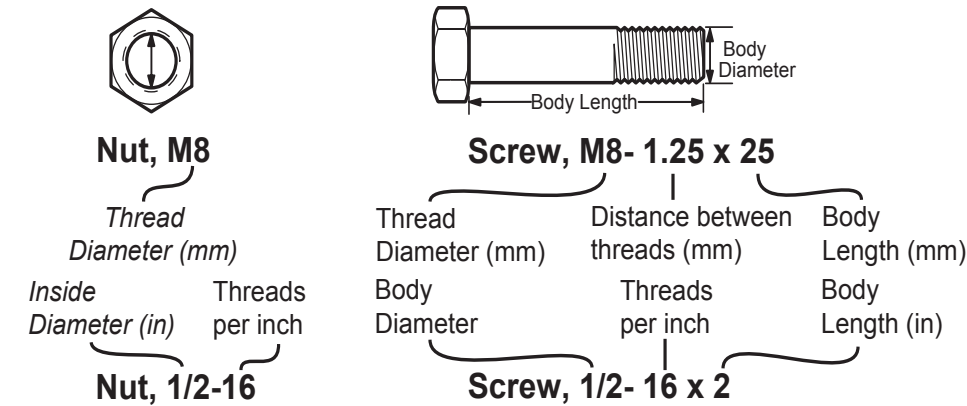
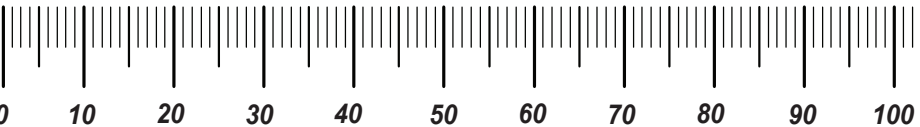
Wheel & Tire Group

REF NO	PART NO	QTY	DESCRIPTION
1	5023279	2	TIRE ASSM, 13 X 6.5 - 6, FF / TB
2	5025017X72	2	BOLT, 1/2-13 X 9" GD5 YZ
3	5025396	2	NUT, Hex Flange, Nylock, 1/2-13
4	5025158	2	WASHER, 1/2 SAE
5	5104412	2	TIRE/WHEEL ASM, 24X9.50-12, TURF SMART -(S/N: 4000798685 and below)
5	5108104	2	TIRE WHEEL ASM, 24X9.50-12 TURF MASTER -(S/N: 4000798686 and above)
6	5104412X1	2	TIRE, 24 X 9.50-12 PR TURF SMART (SV) -(SV - One per tire)(S/N: 4000798685 and below)
6	5108115X2	2	TIRE, 24 X 9.50-12, TURF MASTER -(SV - One per tire)(S/N: 4000798686 and above)
7	5103887X1	2	WHEEL, 12 X 7, 5/4.5, 1.13 OFFSET (SV) -(SV - One per tire)
8	5020601	10	NUT, 1/2-20, FOR WHEEL BOLT SILVER -(Torque tire lug nuts to 90 ft-lbs (122 Nm))
9	5022631SX2	4	BEARING, Tapered Roller -(SV - Two per tire)
10	5022631SX3	4	SEAL, GREASE -(SV - Two per tire)
11	5022631SX4	4	BEARING, RACE -(SV - Two per tire)
12	5103650	2	NUT, BEARING ADJUSTER, AXLE
13	5103649	2	BEARING ADJUSTER, SPACER, 7.062 LG
14	5103594	4	DEBRIS, COVER, CASTER WHEELS

Hardware Identification & Torque Specifications

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

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



Standard Hardware Sizing

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

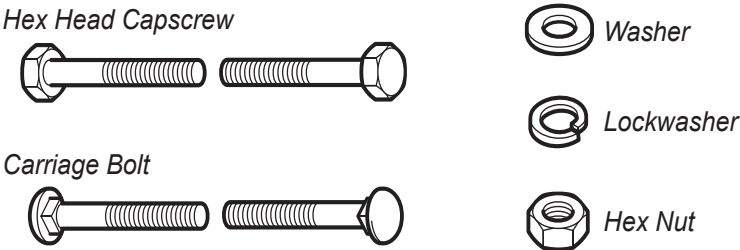
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

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

NOTES

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

Common Hardware Types



Wrench & Fastener Size Guide

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

