



Parts Manual

Mfg. No: 5902078

ISX2200 Series w/ 60" iCD+ Mower Deck
& ROPS (ISX2200, 60, V28 E OG, NA)



5023279 - Flat Free Tire Assembly w/ Tapered Bearings (13 X 6.5 - 6).....

5600891 - Roll Bar Mounted LED Headlight Kit.

5601080 - Service Jack Kit.

5601235 - Service Jack Mount Kit (7.25") 2200/3300.

5106748S - Laser Edge Blade Set, 60"/61" Deck.

5106751X1 - Terra Trac Tire, 26 X 12 - 12.

5601441 - Mulch Kit for ZTR with 60" iCD Deck.

5601385 - Striping Kit, 60" iCD Deck.

5601412 - 60" iCD TURBO-Pro MAX; 3-Bag Soft Top Grass Collection System (ISX2200).

5601418 - 60" iCD TURBO-Pro MAX; Electric Dump from Seat Grass Collection System (ISX2200).

5601420 - 60" iCD TURBO-Pro MAX; EZ Dump 12 cu. ft. Hopper (ISX2200).

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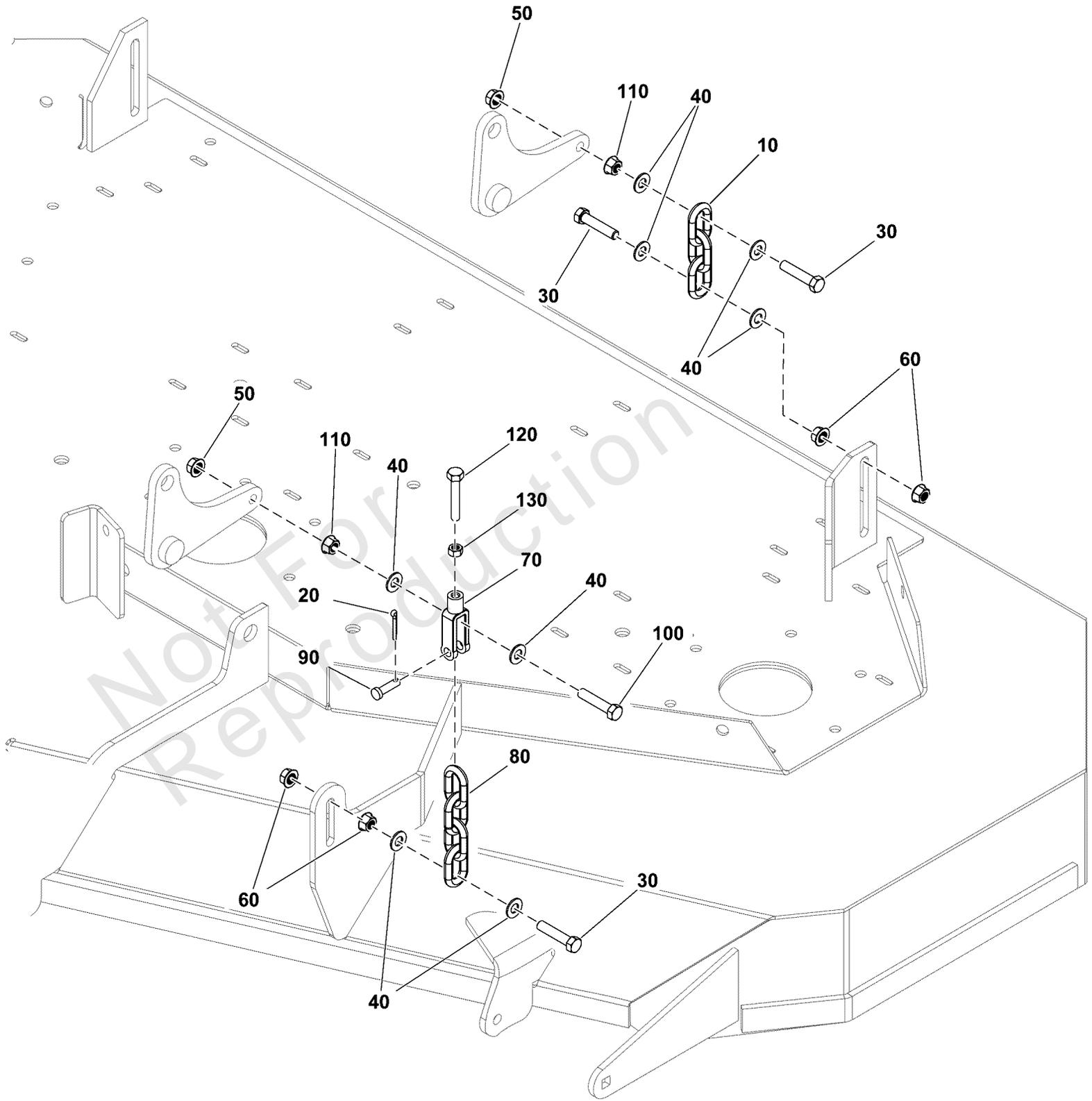
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60" iCD+ Mower Deck Group - Hanger Chains

Note: Unless noted otherwise, use the standard torque specifications

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Configuration for models with 60" mower decks.



60" iCD+ Mower Deck Group - Hanger Chains

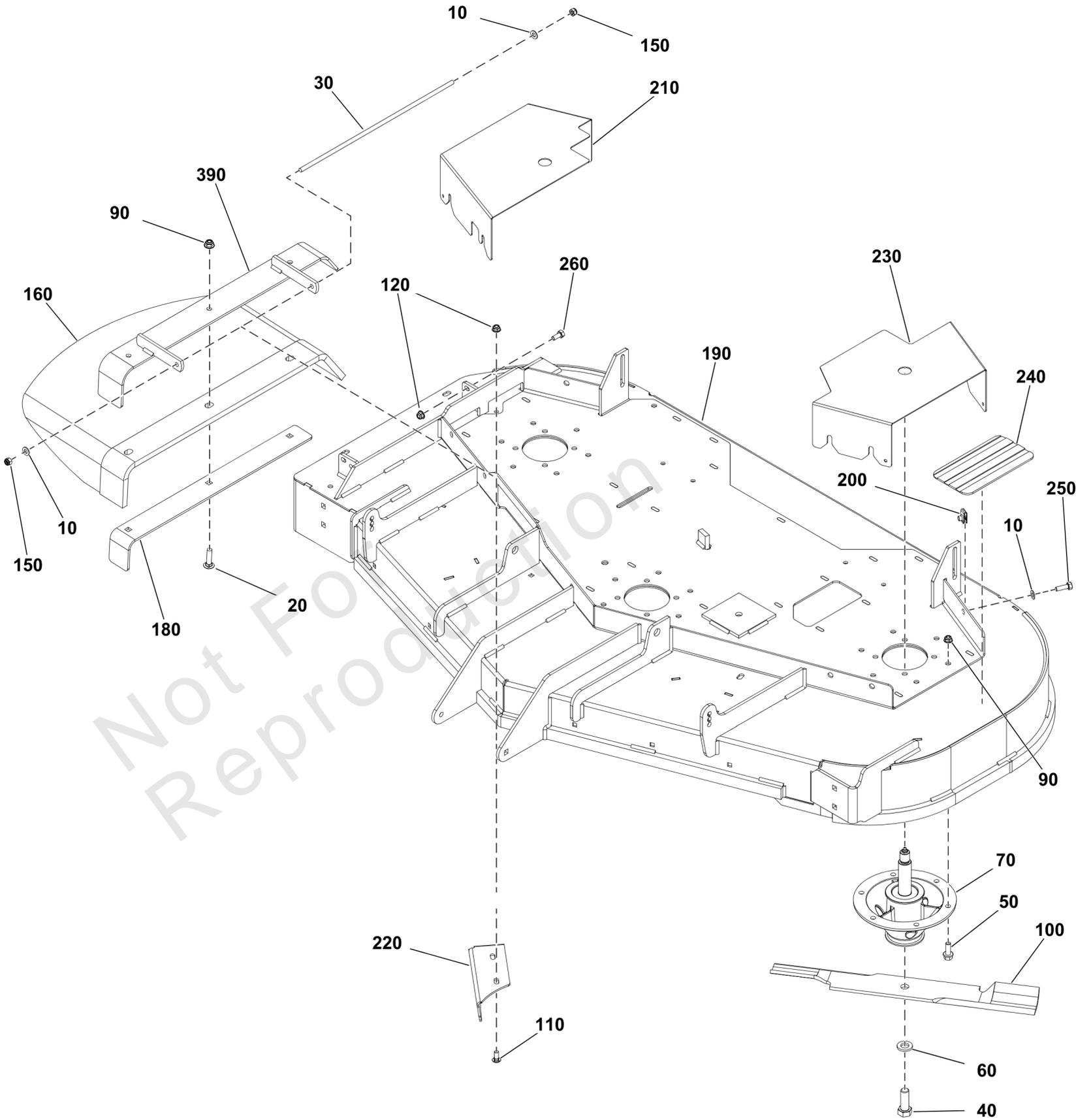
REF NO	PART NO	QTY	DESCRIPTION
10	5050878X3SM	2	CHAIN, 5/16" GD30, 3
20	703312	2	PIN, COTTER, 3/32X.75
30	5025013X14SM	6	BOLT, 3/8-16 X 1-3/4"
40	5025156FS	16	WASHER
50	5025394SM	4	NUT, 3/8-16 HEX NYLOCK
60	5025128SM	8	NUT, 3/8-16 HEX SERRA
70	5100375YP	2	CLEVIS, 5/16-18, 3/8
80	5050878X4YP	2	CHAIN, 5/16", 4 LINKS
90	5025214X9SM	2	PIN - CLEVIS
100	703589	2	CAPSCREW, 3/8-16X2
110	5025084SM	4	NUT, 3/8-16 HEX JAM
120	5025055X16SM	2	BOLT, 5/16-18X2
130	5025388YP	2	NUT, 5/16-18 HEX JAM

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60" iCD+ Mower Deck Group - Housing, Covers, Spindles, and Blades

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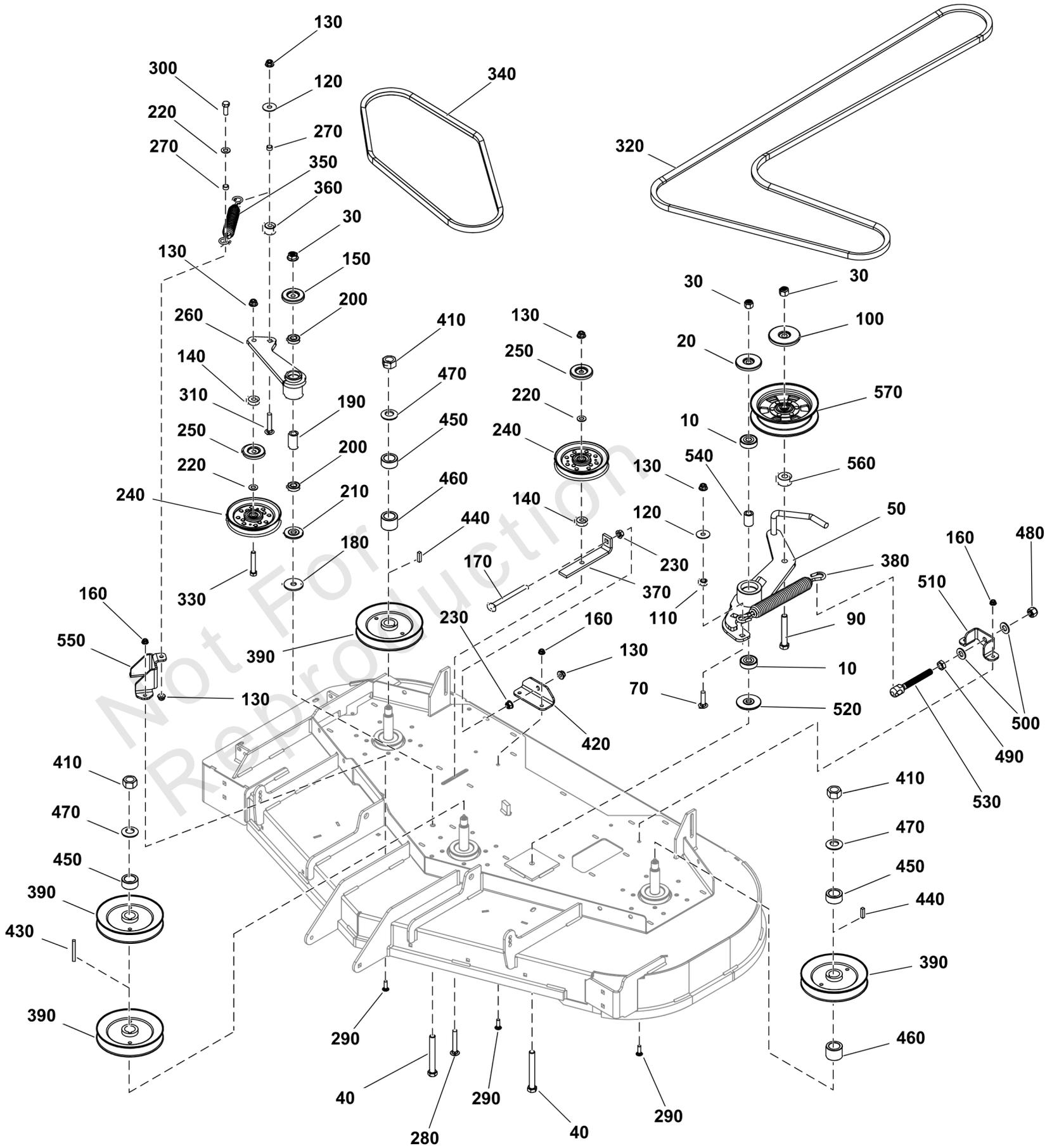
60" iCD+ Mower Deck Group - Housing, Covers, Spindles, and Blades

REF NO	PART NO	QTY	DESCRIPTION
10	703350	8	WASHER
20	5025146X12YP	3	BOLT, 3/8-16 X 1-1/2
30	5061300FS	1	ROD
40	770136	3	BOLT -(Torque blade mounting bolts to 120 ft-lbs (163 Nm))
50	5025390X8FS	18	BOLT -(Torque spindle mounting bolts to 30 ft-lbs (41 Nm))
60	5025477SM	3	WASHER, 5/8" YZ
70	5104744YP	3	ASSEMBLY-SPINDLE
90	5025394SM	21	NUT, 3/8-16 HEX NYLOCK
100	5101755S	3	BLADE SET, 61 DECK (3) -(SET OF 3 BLADES)
110	5025145X6SM	2	BOLT, 5/16-18 X 3/4",
120	5025392FS	3	NUT
150	5025045SM	2	NUT, 5/16-24 HEX NYLO
160	84011105	1	CHUTE, Discharge
180	84003245	1	PLATE, SUPPORT
190	84010923	1	DECK SHELL w/Decals -(ISX2200 60" NA Models - Includes safety decals and safety walk.)
190	84010924	1	DECK SHELL w/Decals -(ISX2200 60" AUS Models - Includes safety decals and safety walk.)
200	5022308SM	6	BODY CLIP, 5/16-18 X
210	84007769	1	GUARD, RH
220	84008169	1	DEFLECTOR
230	84007768	1	GUARD, LH
240	5101004SM	1	SAFETY WALK
250	5025011X8FS	6	BOLT
260	5025011X6SM	1	BOLT, 5/16-18 X 3/4"
390	84007973	1	FRAME, Chute

60" iCD+ Mower Deck Group - Pulleys, Belts, and Idler Arm

Note: Unless noted otherwise, use the standard torque specifications

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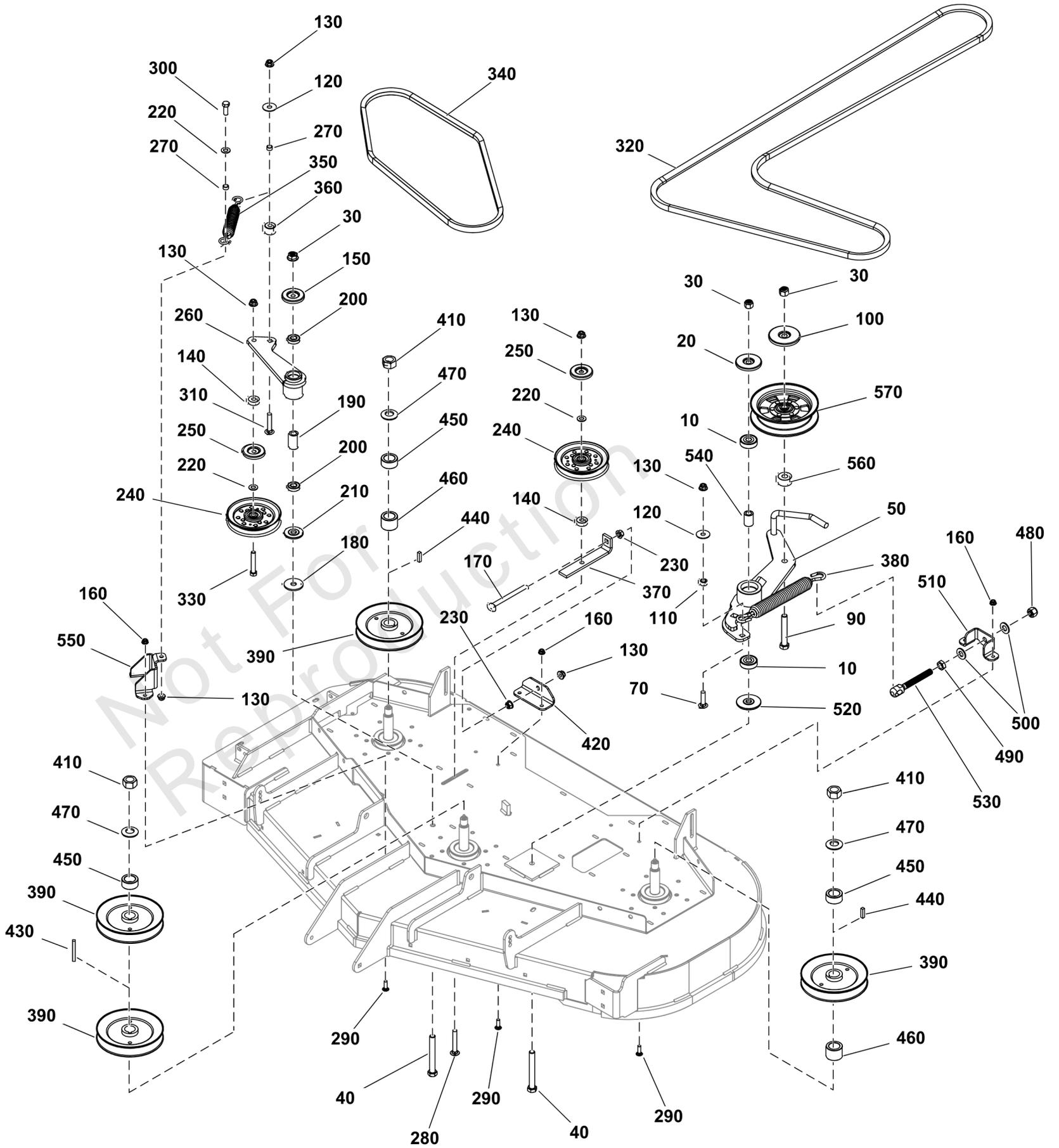
60" iCD+ Mower Deck Group - Pulleys, Belts, and Idler Arm

REF NO	PART NO	QTY	DESCRIPTION
10	5104383YP	2	BEARING
20	84007958	1	SHIELD, BEARING, 1/2" ID-2.5"
30	5025056FS	3	NUT
40	5025017X32YP	2	BOLT, 1/2-13 X 4 GD5
50	5415288AYP	1	ARM-IDLER
70	703130	1	BOLT
90	5025017X22SM	1	BOLT, 1/2-13 X 2-3/4"
100	5105041YP	1	SHIELD
110	5105297YP	1	SPACER
120	5025165SM	2	WASHER, 3/8" FENDER
130	5025394SM	6	NUT, 3/8-16 HEX NYLOCK
140	5105429YP	2	SPACER
150	84007959	1	SHIELD, BEARING, 1/2" ID-1.75"
160	5025392FS	6	NUT
170	5025146X36YP	1	BOLT
180	5103282YP	1	WASHER
190	5103812YP	1	SPACER, .52 X .84 X 1
200	7078243YP	2	BEARING, BALL, AXLE
210	5103262YP	1	SPACER, IDLER ARM
220	5025156FS	5	WASHER
230	5025128SM	2	NUT, 3/8-16 HEX SERRA
240	84004874	2	PULLEY
250	5105033YP	2	SHIELD
260	84007960	1	WELD, IDLER ARM, RH BELT - BLK
270	5041930SM	2	SPACER, .38 X .50 X .
280	5025146X22YP	1	BOLT, Carriage, 3/8-16 x 2-1/2
290	5025145X8SM	6	BOLT, 5/16-18 X 1", C
300	5025013X8SM	1	BOLT, 3/8-16 X 1" GD5
310	5025146X16SM	1	BOLT, 3/8-16 X 2", CA
320	5104982YP	1	BELT
330	5025013X18SM	1	BOLT, 3/8-16 X 2-1/4"
340	5104780YP	1	BELT
350	5022847SM	1	SPRING, EXTENSION, SW
360	5043815YP	1	SPACER
370	5415374AYP	1	PLATE
380	5105068YP	1	SPRING
390	5105004YP	4	PULLEY
410	5025405SM	3	NUT, 3/4-16 HEX
420	84007961	1	PLATE, PULLER MOUNT, SPRING-BLK
430	5050407X18SM	1	KEY - 1/4 SQX2 1/4
440	5050407X8SM	2	KEY, 1/4" SQ. X 1.00
450	5105047YP	3	SPACER
460	5105048YP	2	SPACER
470	5025406FS	3	WASHER, Beveled
480	5025098SM	1	NUT, 1/2-20 HEX NYLON
490	5025089SM	1	NUT, 1/2-20 HEX JAM
500	5025158SM	2	WASHER, 1/2" SAE
510	84007962	1	PLATE, IDLER BOLT, LONG-BLK
520	5104379YP	1	SPACER
530	5105844YP	1	ANCHOR, SPRING
540	5104456YP	1	SPACER, .51 X .84 X 1

60" iCD+ Mower Deck Group - Pulleys, Belts, and Idler Arm

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60" iCD+ Mower Deck Group - Pulleys, Belts, and Idler Arm

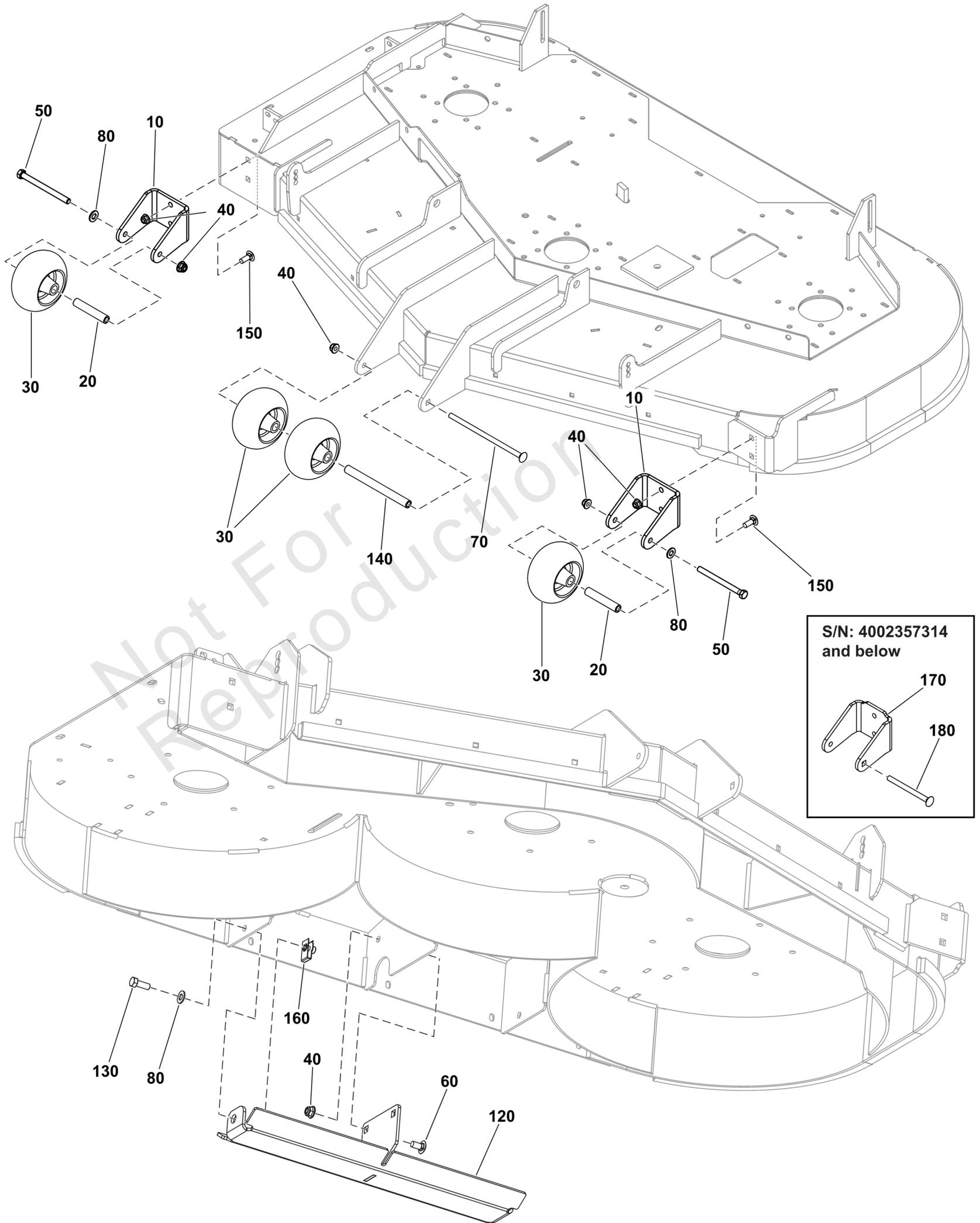
REF NO	PART NO	QTY	DESCRIPTION
550	84007963	1	PLATE, SPRING MOUNT - BLK
560	5045178SM	1	SPACER, .52 X 1.00 X
570	5104716YP	1	PULLEY, IDLER

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60" iCD+ Mower Deck Group - Rollers

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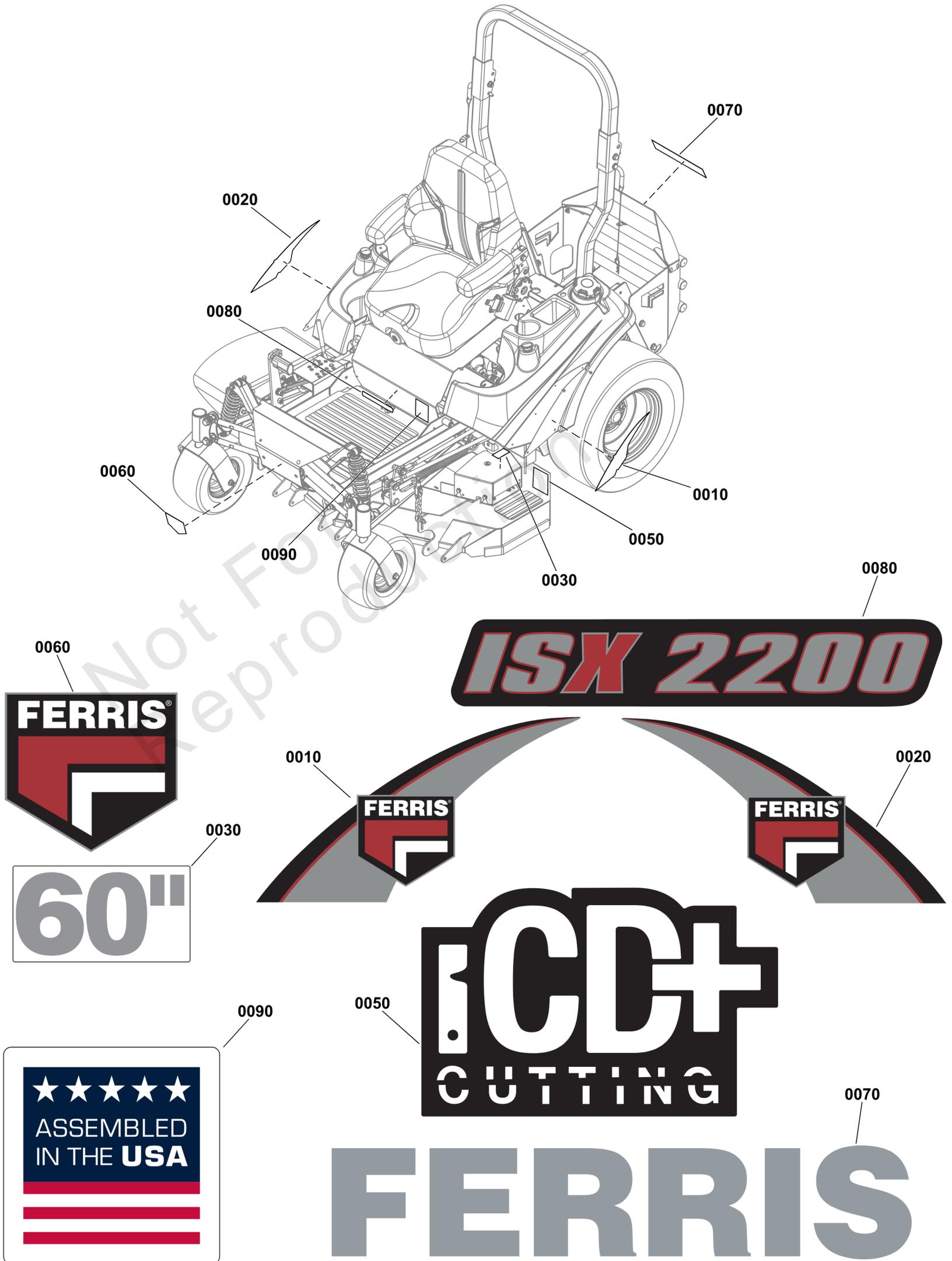
60" iCD+ Mower Deck Group - Rollers

REF NO	PART NO	QTY	DESCRIPTION
10	84010863	2	MOUNT, Roller -(S/N: 4002357315 and above)
20	5105554YP	2	SPACER
30	5105521FS	4	WHEEL
40	5025394SM	9	NUT, 3/8-16 HEX NYLOCK
50	5025013X36YP	2	BOLT, 3/8-16 X 4-1/2 -(S/N: 4002357315 and above)
60	703814	4	BOLT, RD HD, 3/8-16X1
70	84007856	1	BOLT, Carriage 3/8-16 X 8
80	5025156FS	4	WASHER -(Qty: 2 - S/N: 4002357314 and below)
120	84008092	1	PLATE, Skid
130	5025013X8SM	2	BOLT, 3/8-16 X 1" GD5
140	84007855	1	SPACER
150	703814	2	BOLT, RD HD, 3/8-16X1
160	5022649FS	2	CLIP
170	84007853	2	MOUNT, Roller -(S/N: 4002357314 and below)
180	5025146X36YP	2	BOLT -(S/N: 4002357314 and below)

Decal Group - Brand and Model

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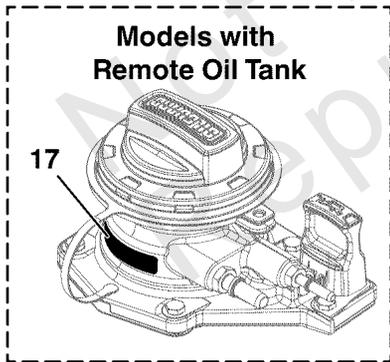
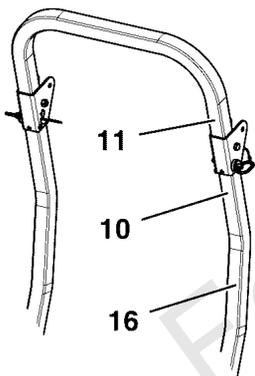
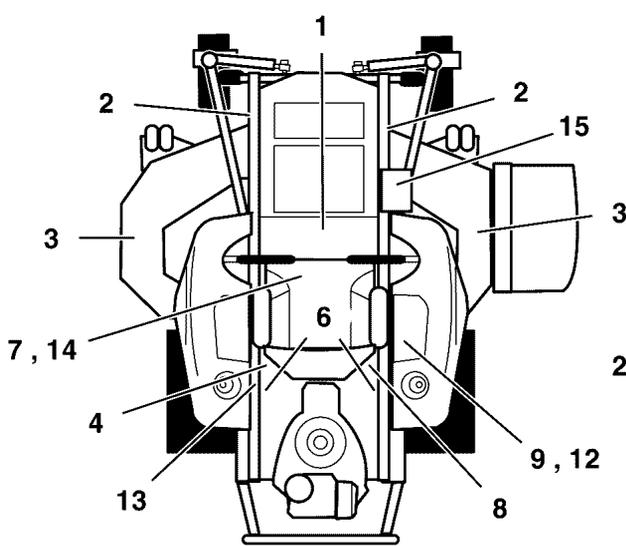


Decal Group - Brand and Model

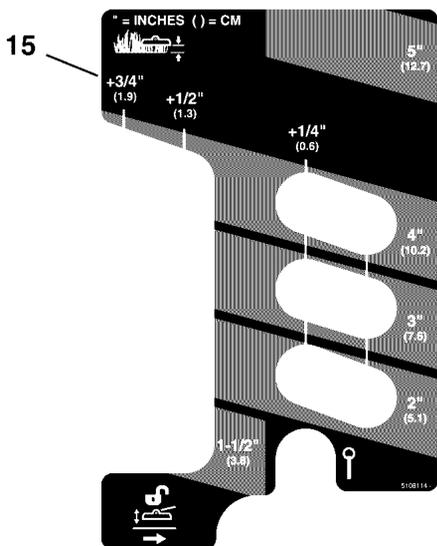
REF NO	PART NO	QTY	DESCRIPTION
0010	5108857FS	1	DECAL, Model, Left Hand
0020	5108858FS	1	DECAL, MODEL, RIGHT HAND
0030	84007767	1	DECAL, 60"
0050	-----	1	DECAL, iCD+ CUTTING SYSTEM
0060	5104756FS	1	DECAL, BRAND
0070	5103799FS	1	DECAL, BRAND
0080	5108271FS	1	DECAL, MODEL
0090	-----	1	DECAL, ASSEMBLED IN THE USA

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5304894
5304895



FACTORY-FILLED WITH
15W-50 Full-Synthetic
WIKOL OIL



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.

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.

WARNING

Ignition System (Gasoline Models)

This spark ignition system complies with Canadian standard ICES-002

HYDRAULIC OIL RESERVOIR

USE SAE 20W-50 MOTOR OIL

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.

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	5103907
52" Mower	
Deck Drive Belt - Long LH	5105029
Deck Drive Belt - Short RH	5105037
Mower Blade	5101756S
61" Mower	
Deck Drive Belt - Long LH	5104982
Deck Drive Belt - Short RH	5104780
Mower Blade	5101755S

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.

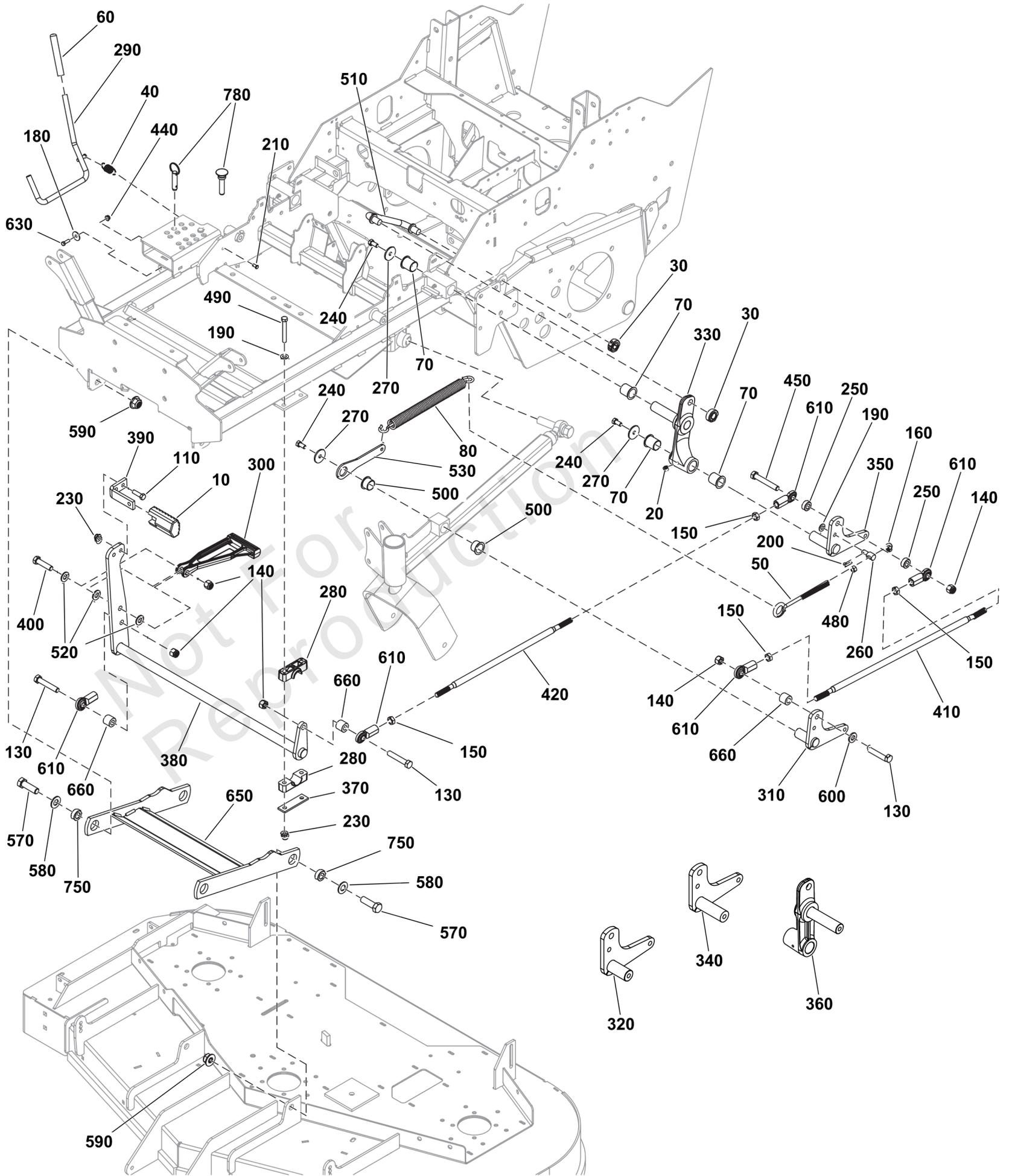
Decal Group - Safety & Operation USA Models

REF NO	PART NO	QTY	DESCRIPTION
1	84008252	1	DECAL, MAIN SAFETY
2	84008198	2	DECAL, Warning/Safety, Pinch Point -(Qty: 1 - 52" Models)
3	84007896	2	DECAL, Danger, Cut Hand/Foot
4	84008200	1	DECAL, Warning/Safety, Hand in Belt
5	84007903	1	DECAL, Manual
6	5100683SM	2	DECAL, WARNING -(Located on the front of the Roll bar pocket)
7	84008212	1	DECAL, Instructions
8	84008195	1	DECAL
9	84007897	1	DECAL, Throttle Control
10	5104082YP	1	DECAL, WARNING, ROPS
11	5100405YP	1	DECAL, WARNING, Overhead Obstacles
12	5048970SM	1	DECAL, Ignition Switch
13	84007908	1	DECAL, Oil
14	5105191YP	1	DECAL
15	84008213	1	DECAL, Cutting Height
16	5104083YP	1	DECAL, CAUTION, ROPS
17	84003293	1	LABEL -(Models w/ Remote Oil Tank)

Deck Lift Group

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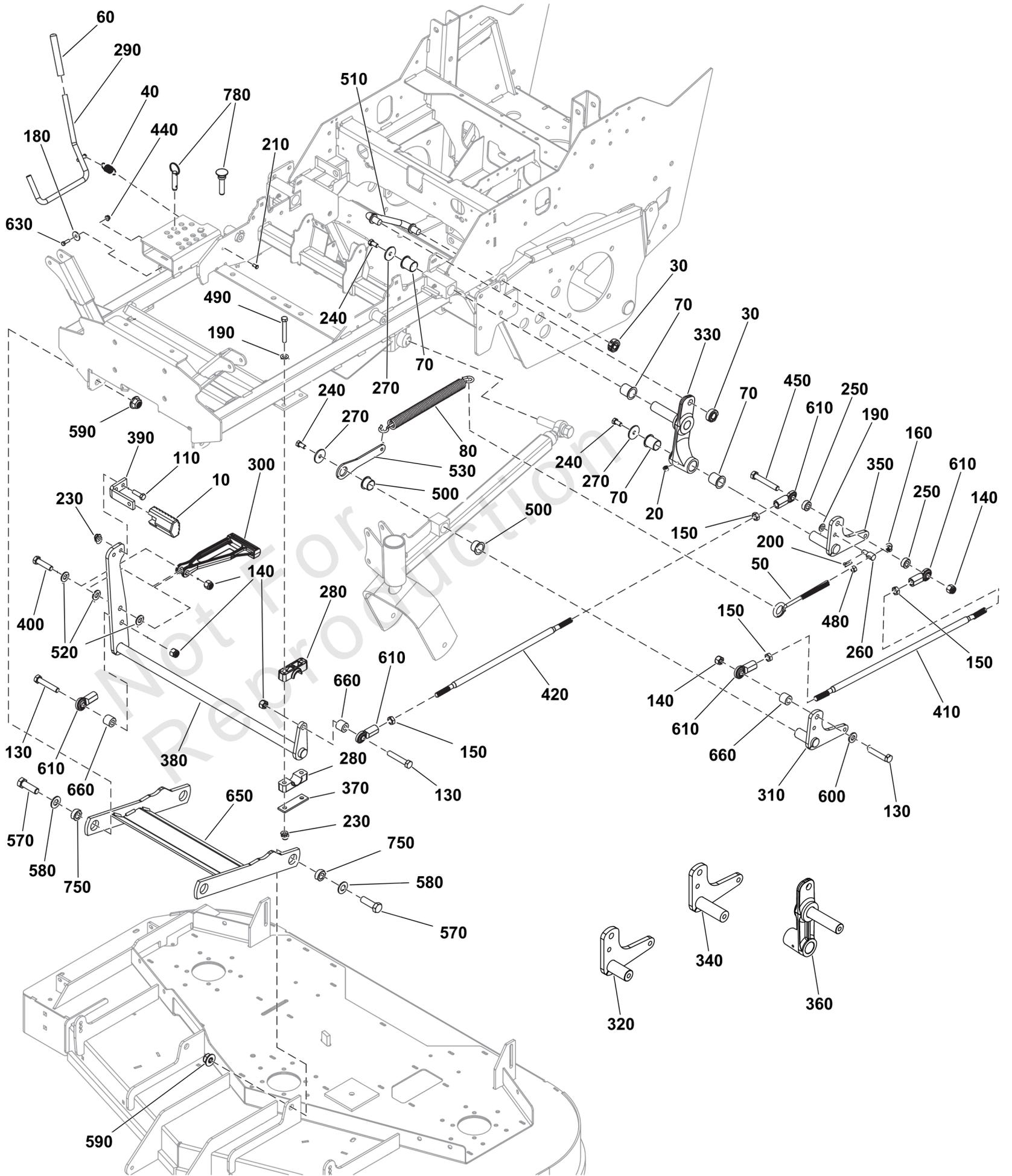
Deck Lift Group

REF NO	PART NO	QTY	DESCRIPTION
10	5104262YP	1	PEDAL, RUBBER
20	5020095SM	2	GREASE FITTING, 1/4-2
30	5020441SM	4	COLLAR, 5/8" SPLIT
40	5010213YP	1	SPRING-EXT, .740 ODX2
50	5021811SM	2	EYE BOLT, 3/8-16 X 8"
60	5021880SM	1	GRIP, FOAM
70	5023343SM	8	BUSHING, 1.00 X 1.13
80	5023355SM	2	SPRING, DECK LIFT ASS
110	5025013X10SM	2	BOLT, 3/8-16 X 1-1/4"
130	5025017X22SM	4	BOLT, 1/2-13 X 2-3/4"
140	5025056FS	7	NUT
150	5025089SM	8	NUT, 1/2-20 HEX JAM
160	5025096SM	2	NUT, 3/8-16 HEX NYLON
180	5025288YP	2	WASHER, 1/4 FENDER
190	5025156FS	8	WASHER
200	5025203X6SM	2	PIN - COTTER
210	5025212X4SM	1	PIN, CLEVIS, 1/4 X 1/
230	5025394SM	6	NUT, 3/8-16 HEX NYLOCK
240	5025443SM	6	BOLT - 3/8-16 X 3/4
250	5045023SM	4	SPACER, .52 X 1.00 X
260	5100380SM	2	ADJUSTER - DECK
270	5100548SM	6	WASHER - .39X1.50
280	5100634SM	4	PIVOT BLOCK, PLASTIC
290	84010944	1	KIT, Latch w/Grip
300	5104133YP	1	ARM-LINK
310	84002184	1	WELD, DECK LIFT LEVER, LH - BLK
320	84002185	1	WELD, DECK LIFT LEVER, RH - BLK
330	5105172YP	1	ARM, LINK
340	5105173YP	1	ARM, LINK
350	5401671AYP	1	DECK LIFT LEVER, LH
360	5401672AYP	1	DECK LIFT LEVER, RH
370	5403925AAFS	2	PLATE, Support
380	84002183	1	WELD, DECK LIFT SHAFT - BLK
390	5061569AYP	1	PEDAL, FOOT
400	5025017X16YP	1	BOLT, 1/2-13 X 2 GD5
410	5104004YP	2	ROD, 1/2-20 X 24.50
420	5103758YP	2	ROD, DECK LIFT, 19.25
440	5025391FS	2	NUT
450	5025017X26SM	2	BOLT, 1/2-13
480	5025034SM	2	NUT, 3/8-16 HEX
490	5025013X22SM	4	BOLT, 3/8-16 X 2-3/4"
500	5023356SM	4	BUSHING, 1.00X1.13X.7
510	5103703YP	2	ROD, SUSPENSION LINK
520	5025158SM	3	WASHER, 1/2" SAE
530	84002186	2	MOUNT, SPRING, DECK LIFT - BLK
570	5025019X16YP	4	BOLT, 5/8-11 X 2
580	5025281SM	4	WASHER, 5/8" SAE
590	5025403YP	4	NUT,5/8-11 HEX NYLON
600	5025440SM	2	WASHER, 1/2" YELLOW
610	1702779SM	8	JOINT-BALL .500-20 TH
630	703338	2	BOLT,1/4-20X5/8

Deck Lift Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078



Deck Lift Group

REF NO	PART NO	QTY	DESCRIPTION
650	84008118	1	BAR, Puller
660	5044673SM	4	SPACER, .52 X 1.00 X
750	84008136	4	BUSHING
780	5023498SM	1	PIN, HITCH, 1/2 X 2.0 -(Pin Style: Regular Deck Lift Pin)
780	84008180	1	PIN, Magnetic Deck Lift -(Pin Style: Magnetic Deck Lift Pin)

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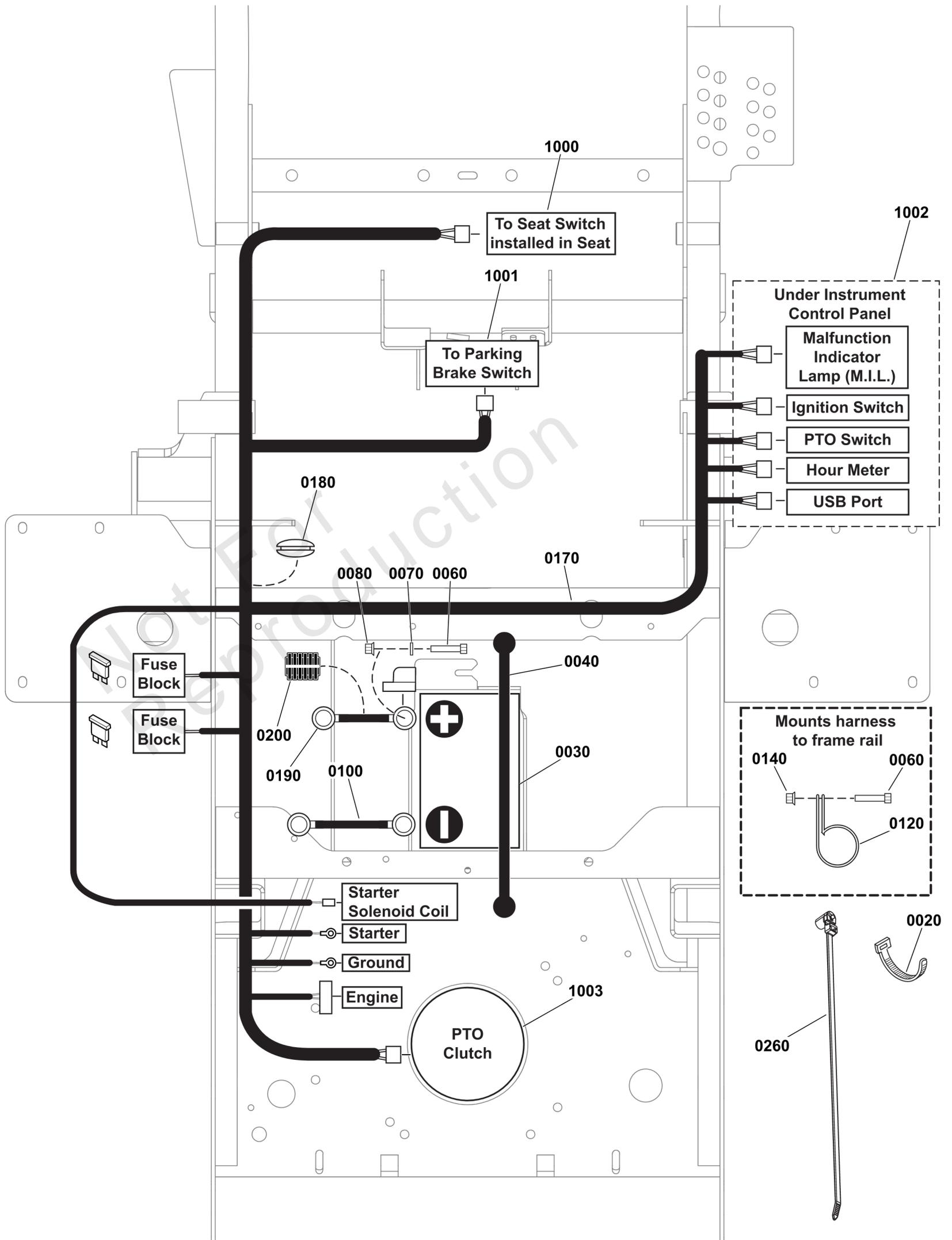
Electrical Group - Fuel Injected Models S/N: 4002328396 and Below

REF NO	PART NO	QTY	DESCRIPTION
0020	5021029	13	TIE, SELF-LOCKING, 12"
0030	-----	1	BATTERY, 11U1L, 350 CCA
0040	1722009	1	STRAP, BATTERY, 14 LONG, Rubber
0060	5025010X8	3	BOLT, 1/4-20 X 1" GD5 CZ
0070	5025154	5	WASHER, 1/4 SAE
0080	5025126	6	NUT, 1/4-20 HEX SERR. FLANGE
0100	5047690	1	BATTERY CABLE, NEG, 14, 5/16-13/32
0120	5021500	2	CLAMP, VINYL INSULATED, 1.00
0130	5025299X8	2	SCREW, 1/4-20 X 1, ALLEN BH, CZ
0140	5025391	2	NUT, 1/4-20 Hex Nylock Flange
0170	5105535	1	HARNESS, Wiring, Large ZTR
0170-10	5102710	1	FUSE, ATO, 25 AMP
0170-20	5101935	1	FUSE, ATO-15 (15 AMP)(SV)
0180	5102677	1	GROMMET, 1-1/2" ID FOR 1/4" METAL
0190	5021405	1	BATTERY CABLE, POS, 22, 1/4-5/16
0200	5050927X16	1	WIRE LOOM, 3/8 ID X 16 IN
0230	5104705	2	ROSEBUD LOOM CLIP
0240	5025179X4	2	SCREW, #10-24 X 1/2" ROUND PHILLIPS
0250	5025271	2	NUT, Hex, Nylon Lock, #10-24
1000	-----	1	Refer to: Seat Mount & Floor Group
1001	-----	1	Refer to: Parking Brake Group
1002	-----	1	Refer to: Instrument Control Panel Group
1003	-----	1	Refer to: Engine & PTO Group

Electrical Group - Fuel Injected Models S/N: 4002328397 and Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078



Electrical Group - Fuel Injected Models S/N: 4002328397 and Above

REF NO	PART NO	QTY	DESCRIPTION
0020	5021029SM	15	TIE, Cable 11" Long
0030	-----	1	BATTERY, 11U1L, 350 CCA
0040	1722009FS	1	STRAP
0060	5025010X8SM	3	BOLT, 1/4-20 X 1", GD
0070	84007033	2	WASHER
0080	5025126FS	2	NUT
0100	5047690SM	1	BATTERY CABLE
0120	5021500FS	1	CLAMP
0140	5025391FS	1	NUT
0170	84011123	1	HARNESS, Wiring
0180	5102677YP	1	GROMMET, 1-1/2" ID FOR 1/4" METAL
0190	5021405SM	1	BATTERY CABLE, POSITI
0200	5050927X16YP	1	WIRE LOOM
0260	84011125	1	CABLE, Tie (Sold as a bag of 5)
1000	-----	1	Refer to: Seat Mount & Floor Group
1001	-----	1	Refer to: Parking Brake Group
1002	-----	1	Refer to: Instrument Control Panel Group
1003	-----	1	Refer to: Engine & PTO Group

Electrical Schematic - Charging Circuit - B&S 49E877 EFI S/N: 2017954956 to

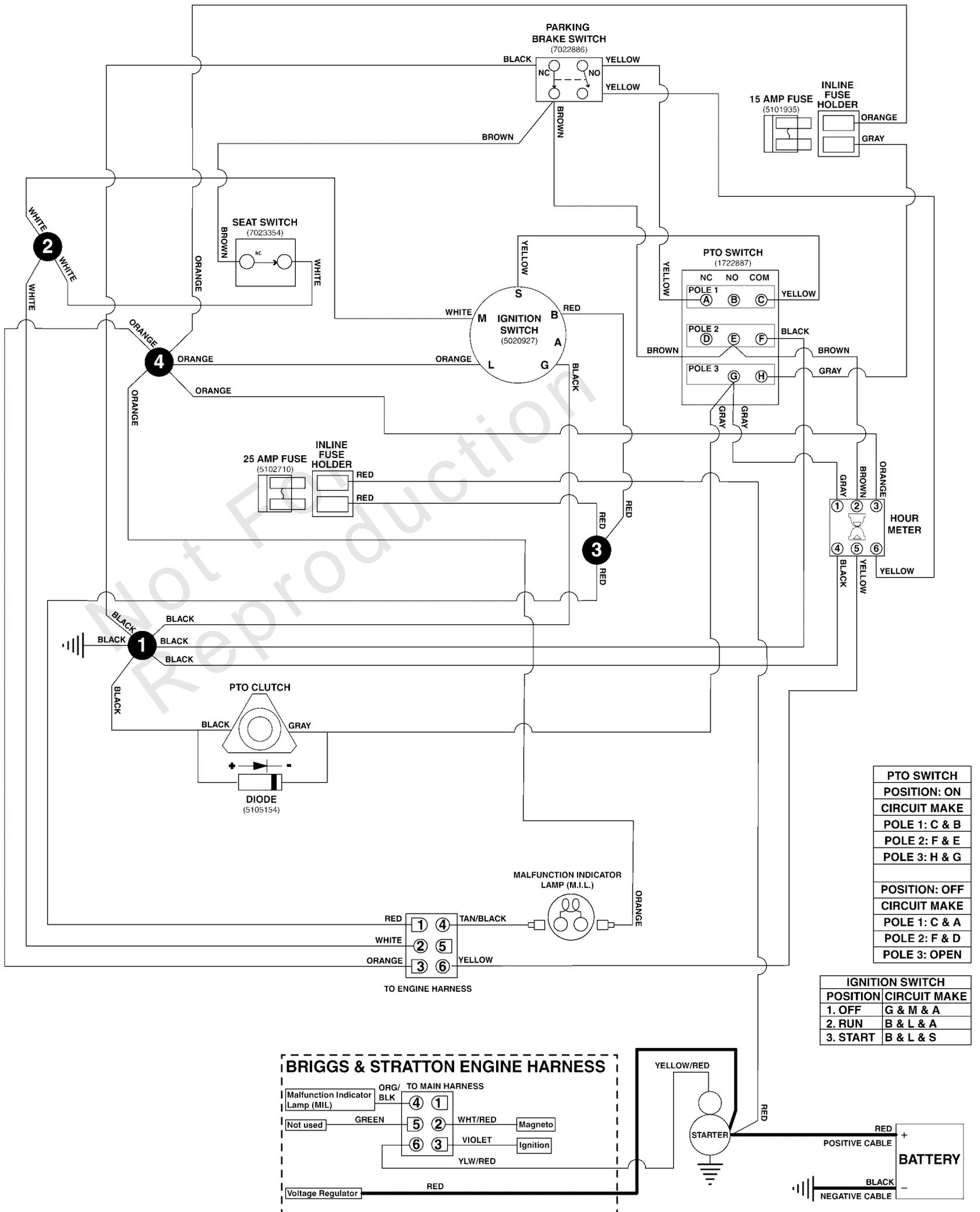
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

5105535 MAIN WIRE HARNESS - BRIGGS & STRATTON 49R977 ENGINES

5105535E

(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 49E877 EFI S/N: 2017954956 to

REF NO	PART NO	QTY	DESCRIPTION
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Not For Reproduction

Electrical Schematic - Charging Circuit - B&S 49E877 EFI S/N: 4002328397 and Above

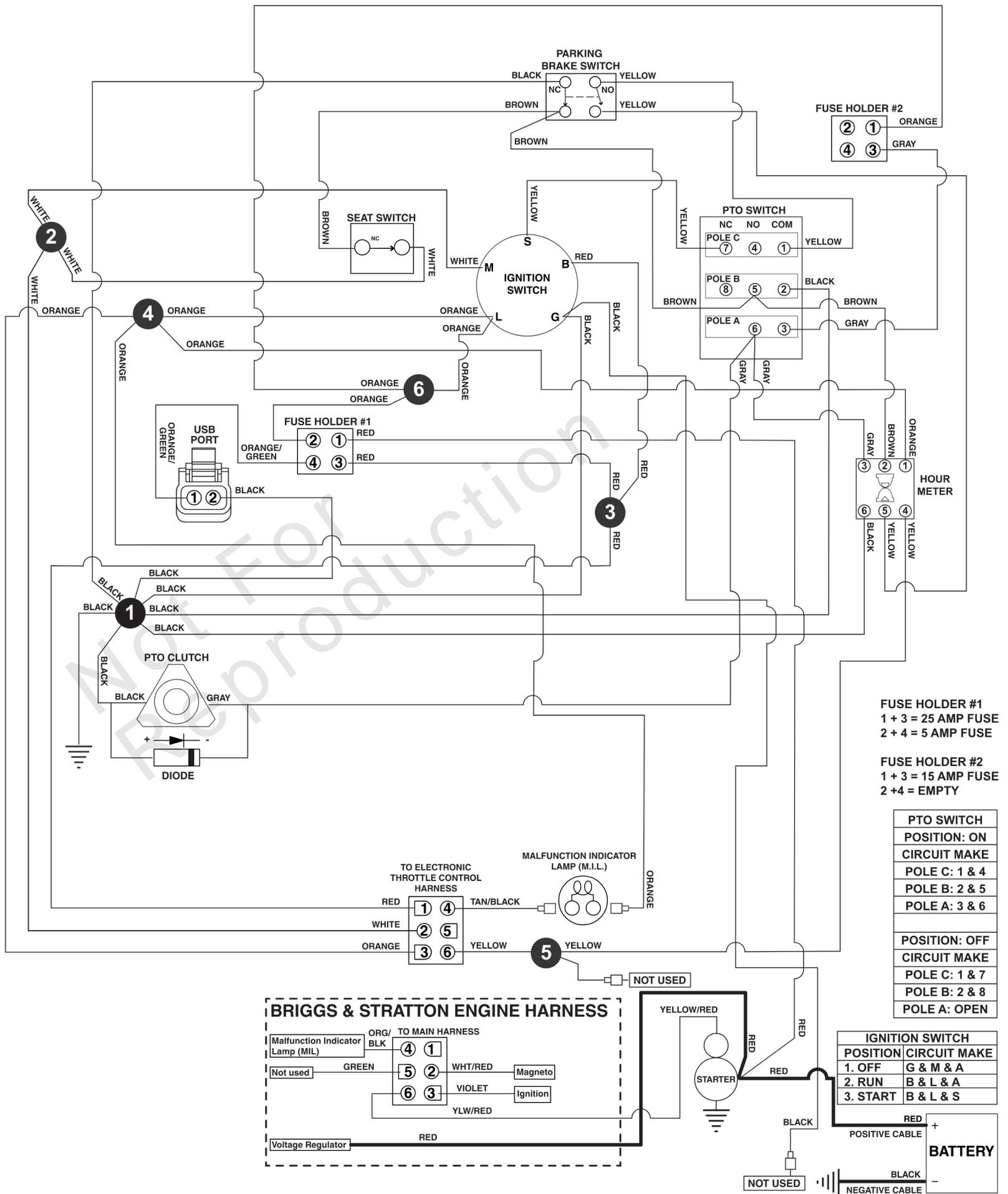
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

84011123 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49E877 EFI ENGINES

5111234C

(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 49E877 EFI S/N: 4002328397 and Above

REF NO	PART NO	QTY	DESCRIPTION
84011123	84011123	1	HARNESS, Wiring

Not For Reproduction

Electrical Schematic - Cranking Circuit - B&S 49E877 EFI S/N: 2017954956 to

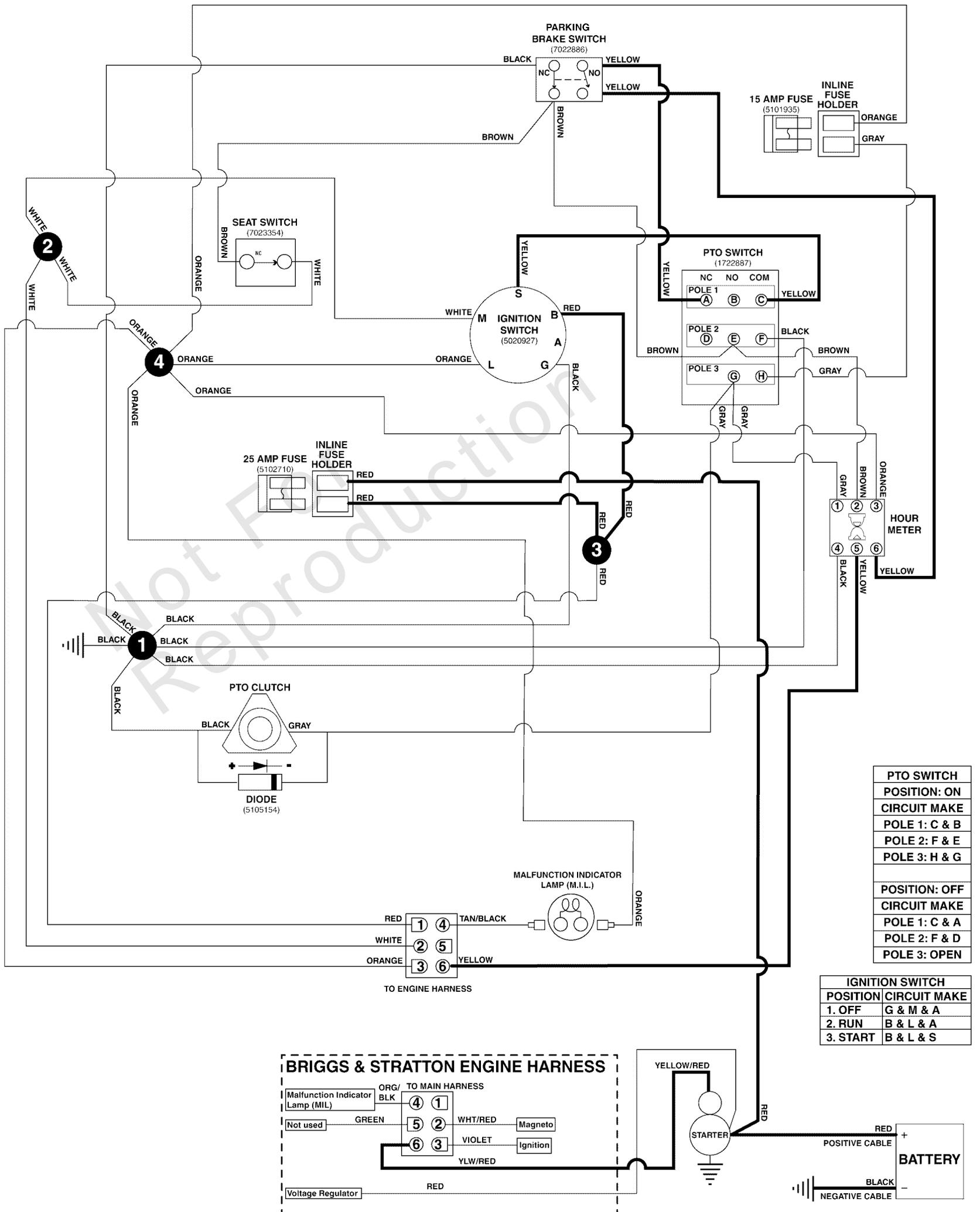
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

5105535 MAIN WIRE HARNESS - BRIGGS & STRATTON 49R977 ENGINES

5105535E

(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 49E877 EFI S/N: 2017954956 to

REF NO	PART NO	QTY	DESCRIPTION
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Not For Reproduction

Electrical Schematic - Cranking Circuit - B&S 49E877 EFI S/N: 4002328397 and Above

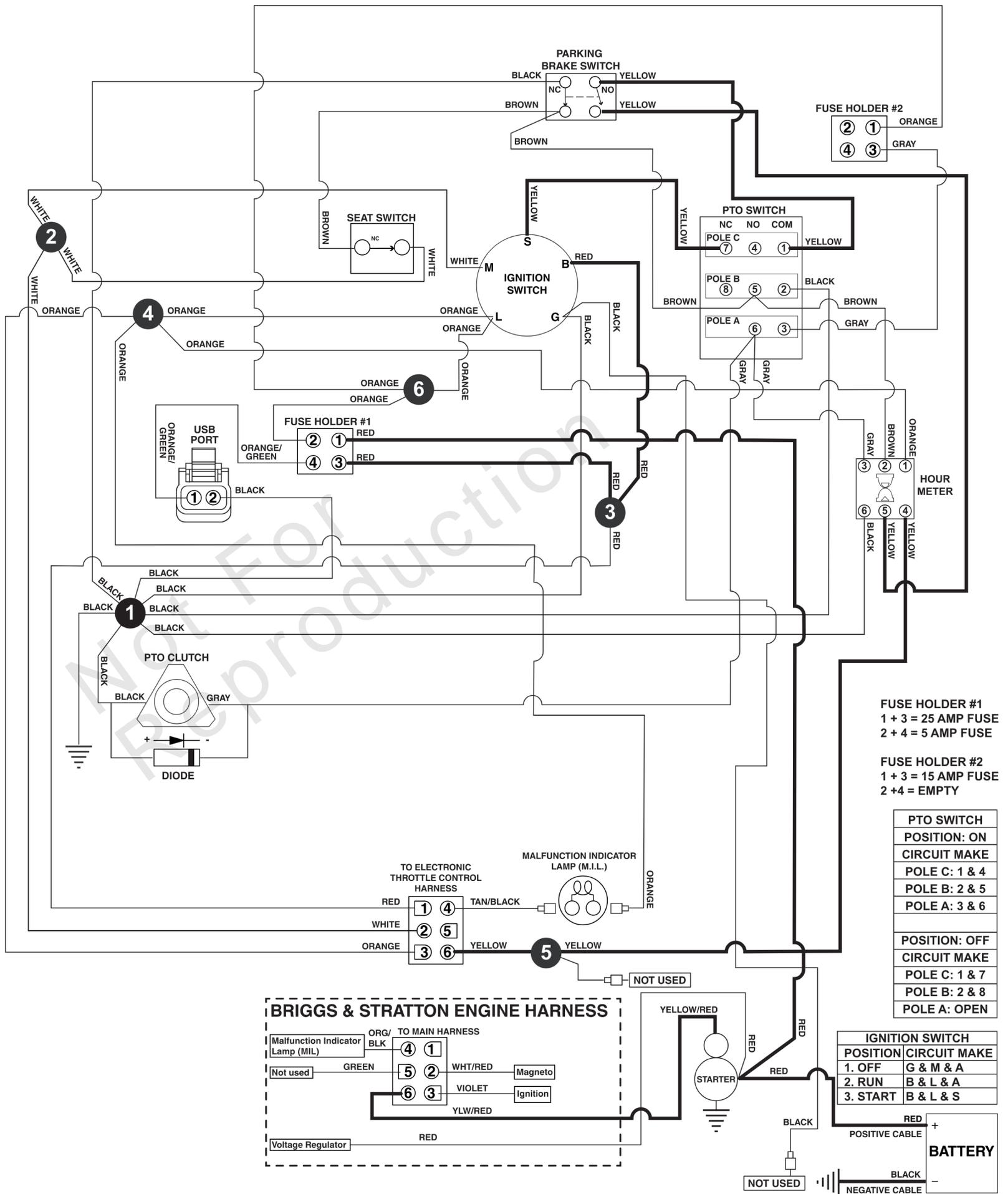
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

84011123 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49E877 EFI ENGINES

5111234C

(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 49E877 EFI S/N: 4002328397 and Above

REF NO	PART NO	QTY	DESCRIPTION
84011123	84011123	1	HARNESS, Wiring

Not For Reproduction

Electrical Schematic - Ign. Ground Circuit/Op Pres. - B&S 49E877 EFI S/N: 2017954956

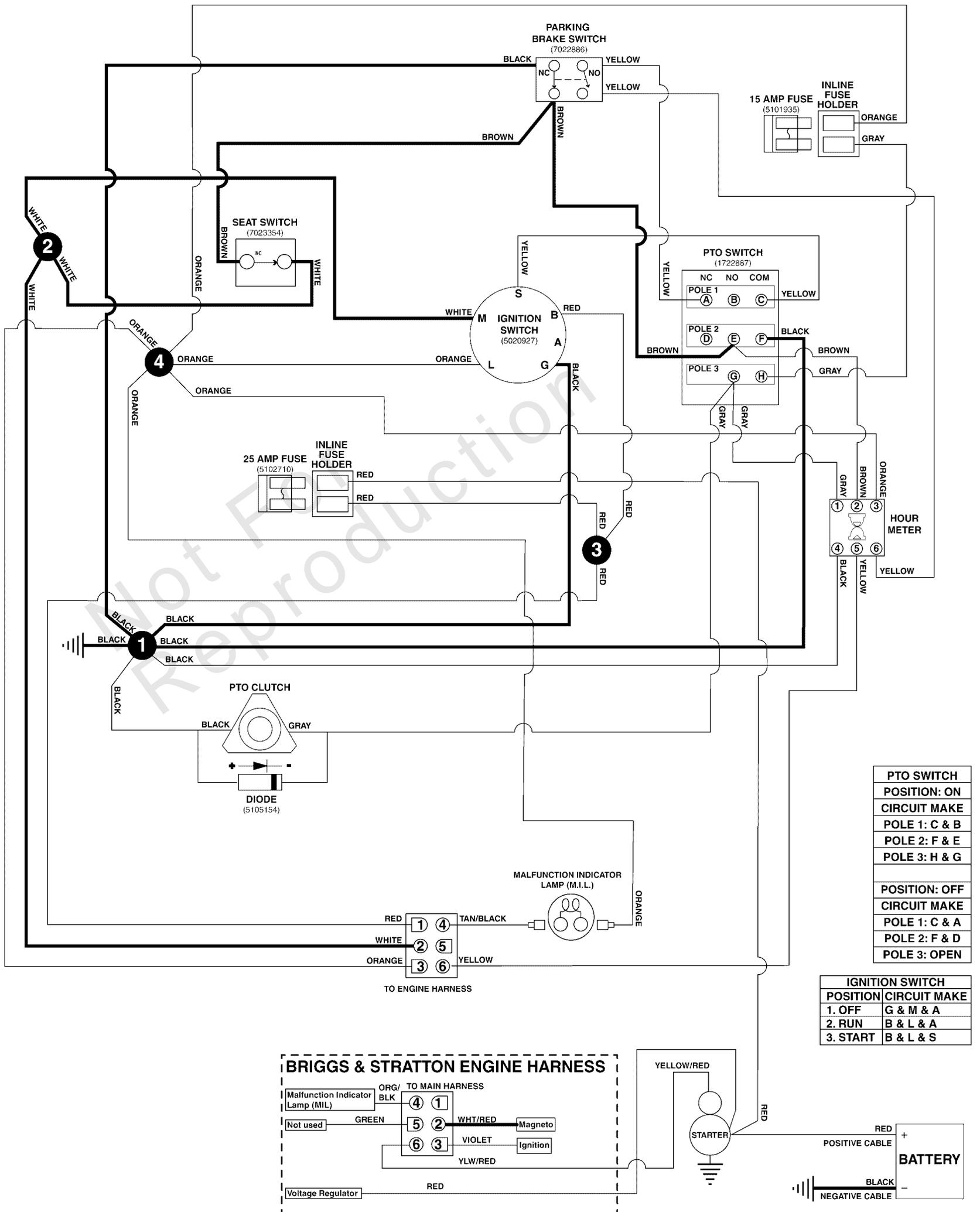
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

510535 MAIN WIRE HARNESS - BRIGGS & STRATTON 49R977 ENGINES

510535E

(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 49E877 EFI S/N: 2017954956

REF NO	PART NO	QTY	DESCRIPTION
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Not For Reproduction

Electrical Schematic - Ign. Ground Circuit/Op Pres. - B&S 49E877 EFI S/N: 4002328397

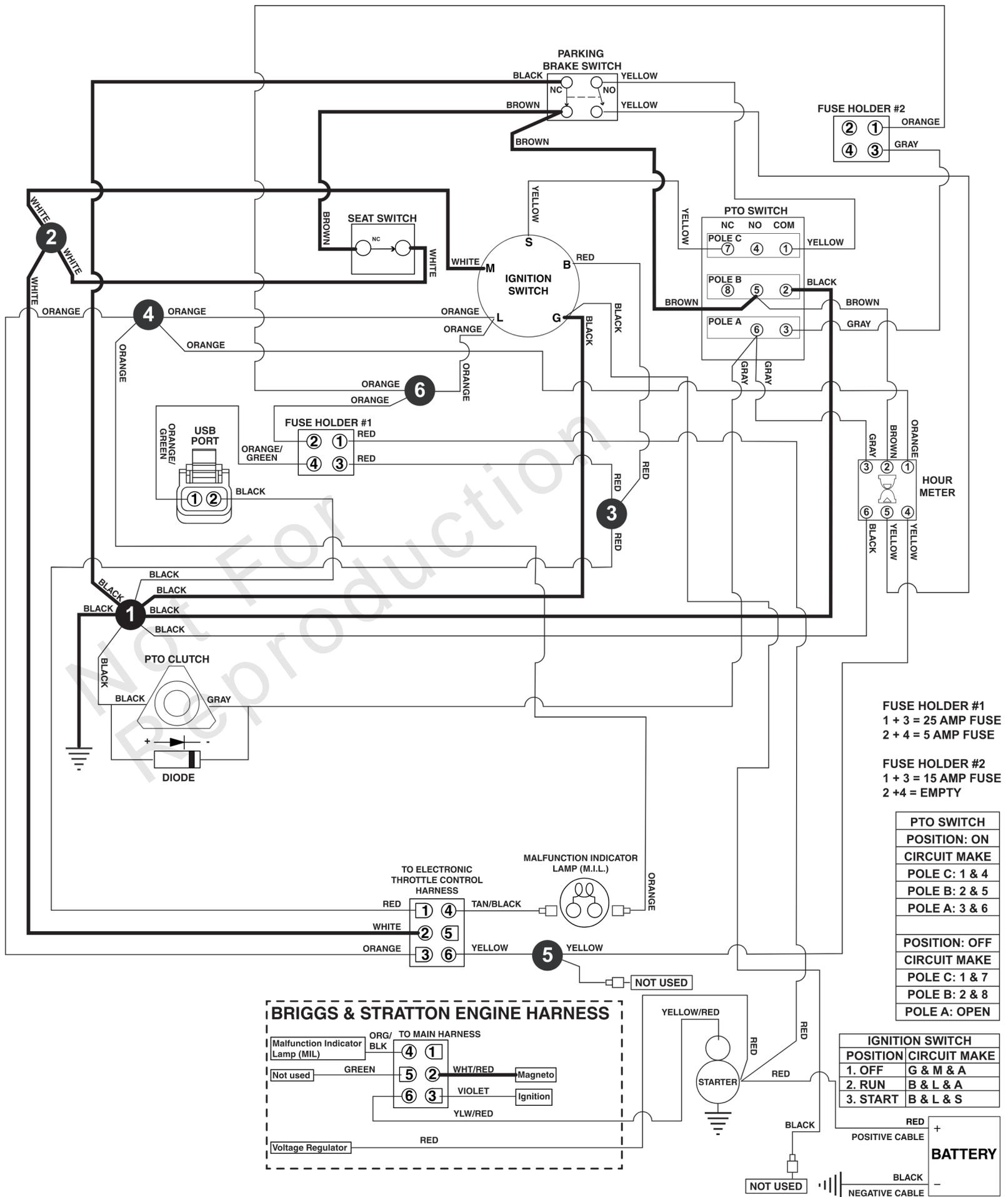
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

84011123 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49E877 EFI ENGINES

5111234C

(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 49E877 EFI S/N: 4002328397

REF NO	PART NO	QTY	DESCRIPTION
84011123	84011123	1	HARNESS, Wiring

Not For Reproduction

Electrical Schematic - PTO Clutch Circuit - B&S 49E877 EFI S/N: 2017954956 to

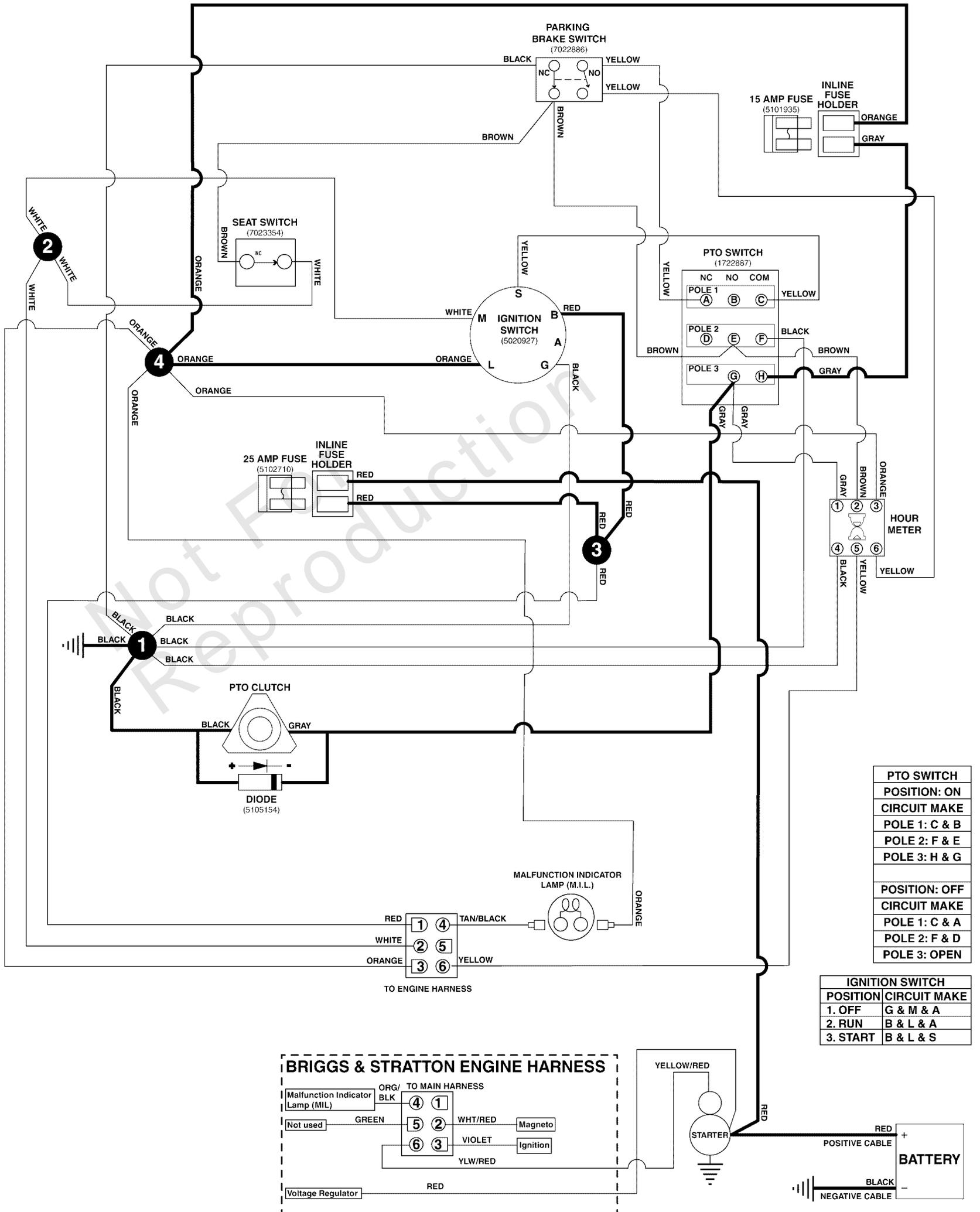
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

510535 MAIN WIRE HARNESS - BRIGGS & STRATTON 49R977 ENGINES

510535E

(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 49E877 EFI S/N: 2017954956 to

REF NO	PART NO	QTY	DESCRIPTION
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Not For Reproduction

Electrical Schematic - PTO Clutch Circuit - B&S 49E877 EFI S/N: 4002328397 and Above

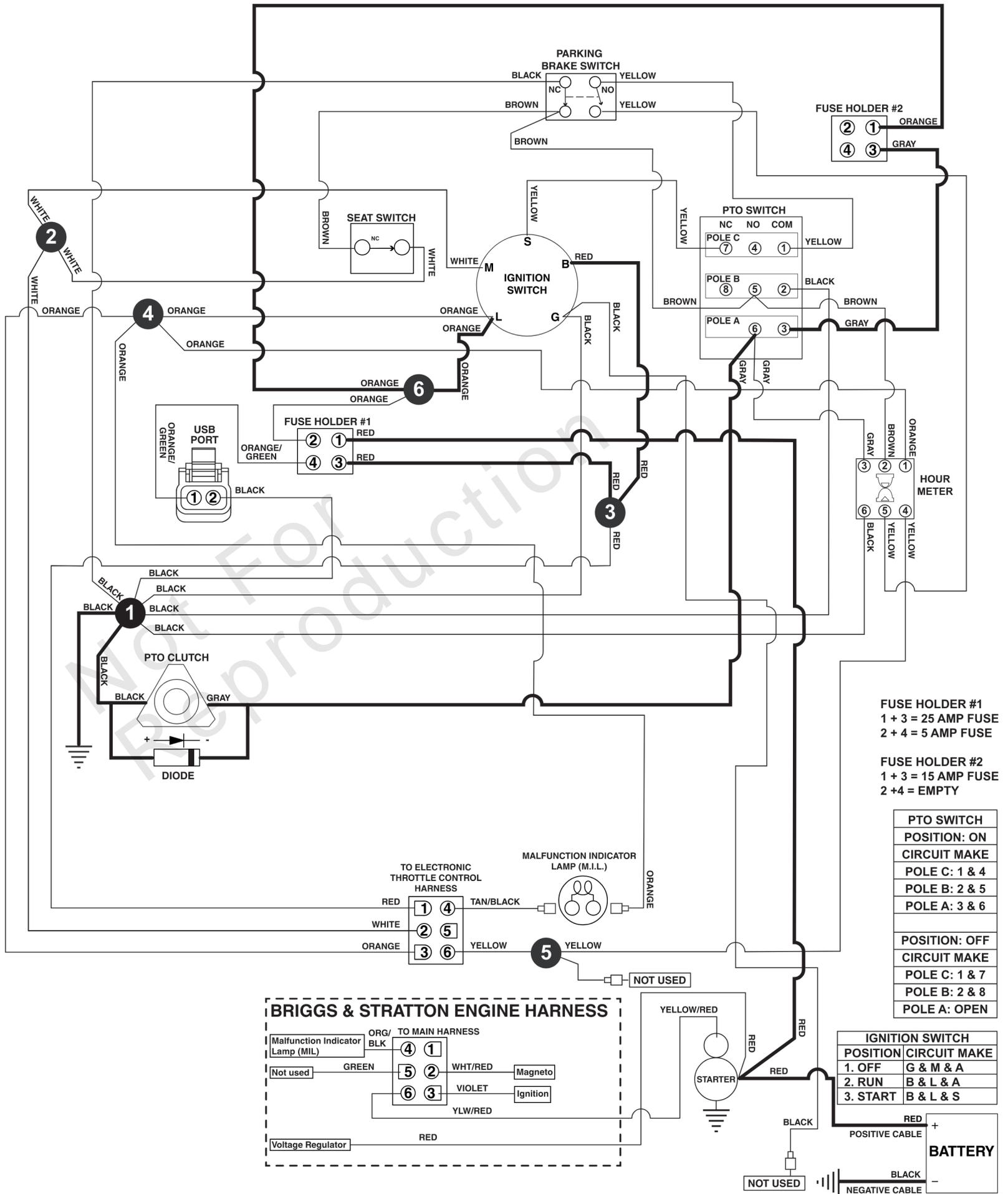
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

84011123 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49E877 EFI ENGINES

5111234C

(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 49E877 EFI S/N: 4002328397 and Above

REF NO	PART NO	QTY	DESCRIPTION
84011123	84011123	1	HARNESS, Wiring

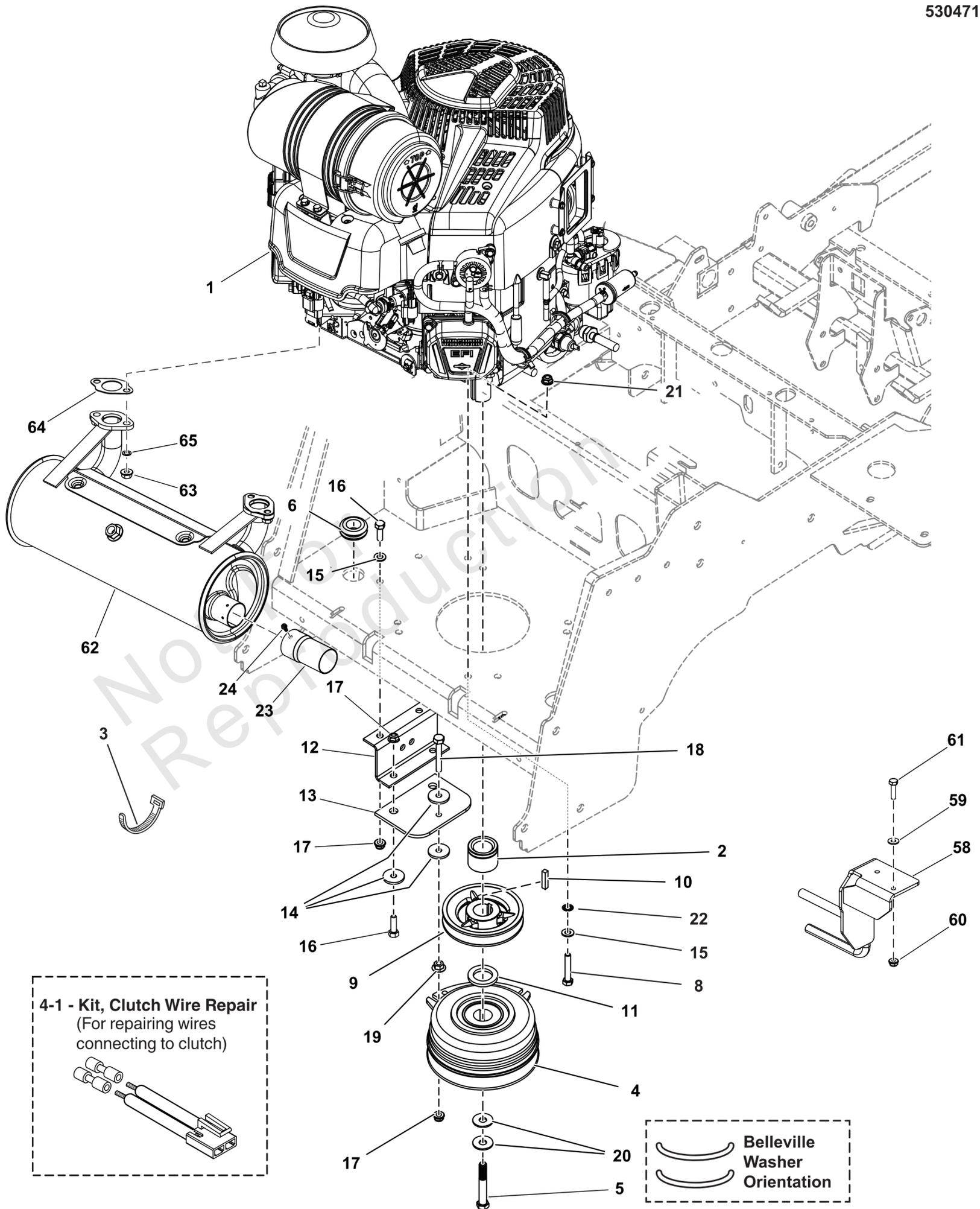
Not For Reproduction

Engine & PTO Group - Briggs & Stratton EFI (Remote Oil Tank)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

5304713E



Engine & PTO Group - Briggs & Stratton EFI (Remote Oil Tank)

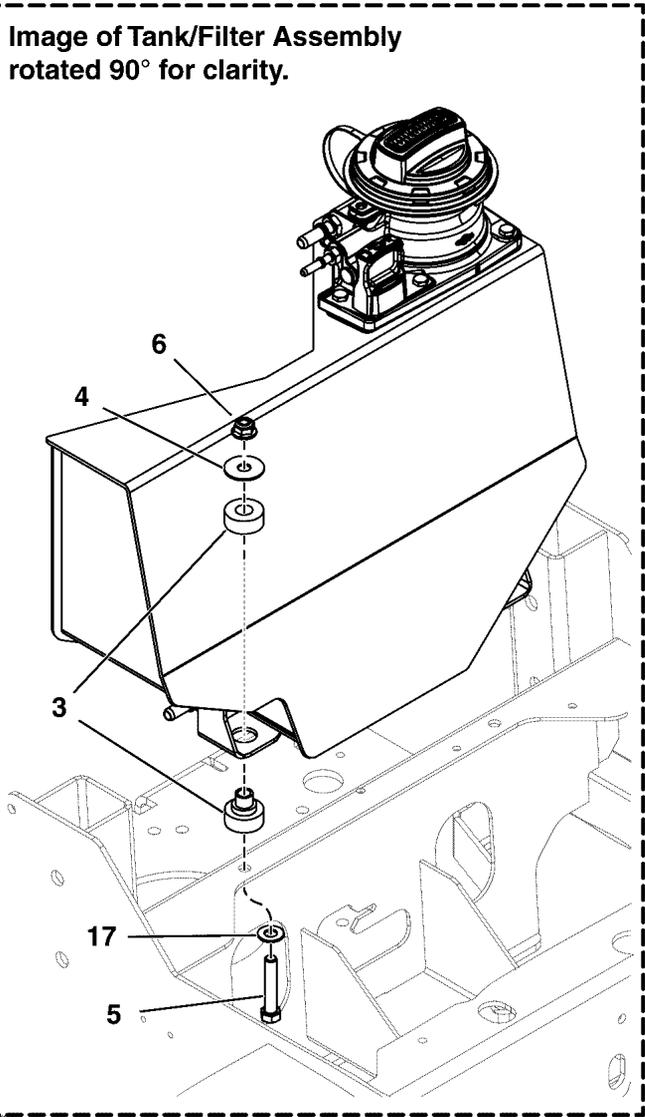
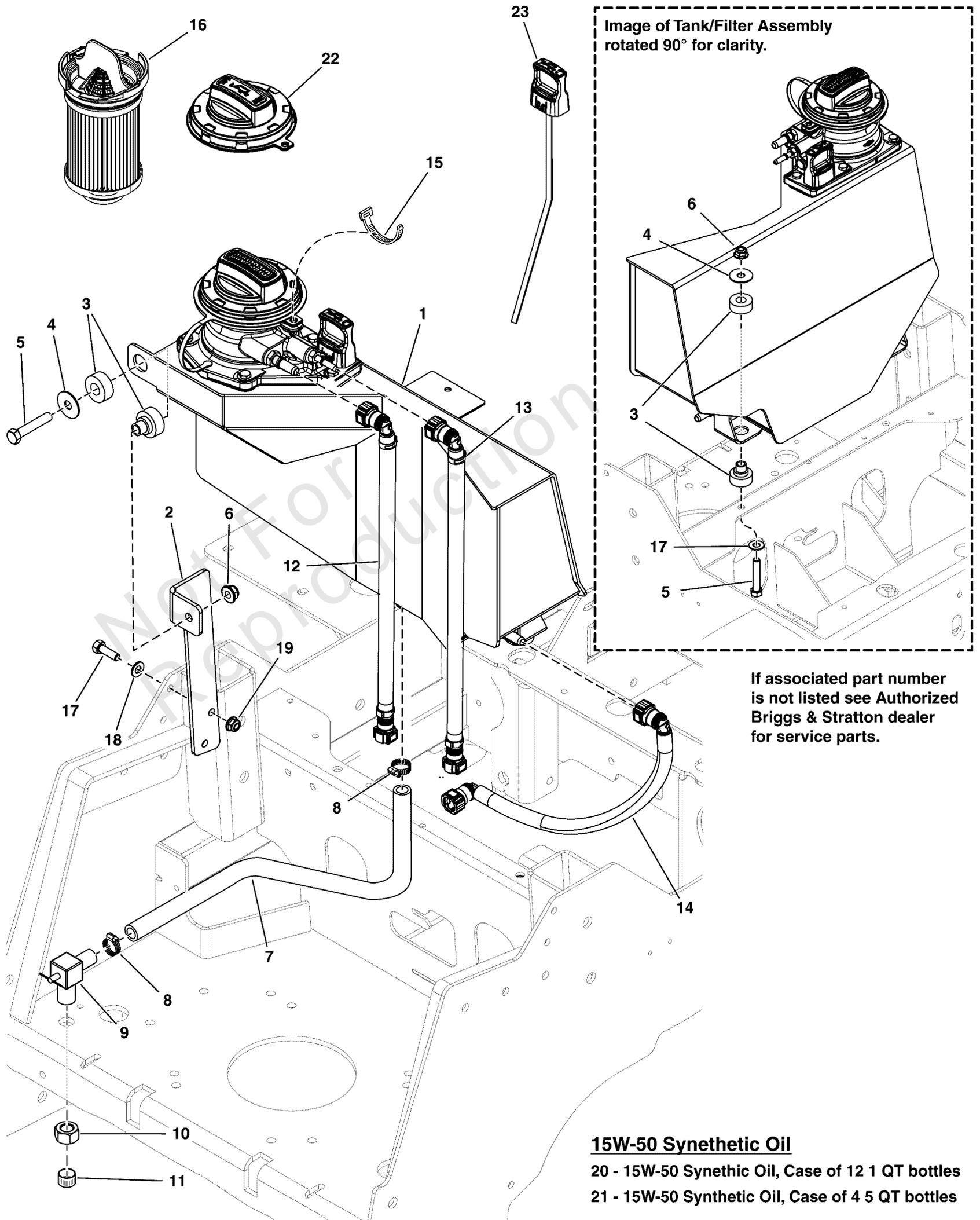
REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	BRIGGS & STRATTON ENGINE, 49E877-0009-G1 -(S/N: 4001858852 and below)
1	-----	1	BRIGGS & STRATTON ENGINE, 49E877-0021-G1 -(S/N: 4001858853 and above)
2	5100926YP	1	SPACER, 1.13 X 1.75 X
3	5101492YP	1	TIE, SELF-LOCKING, 24" -(Secures PTO Clutch wire to Clutch Anchor)
4	5105090YP	1	CLUTCH
4-1	5600575YP	1	KIT, CLUTCH WIRE REPAIR
5	5102866YP	1	BOLT, CRANKSHAFT, 7/1 -(Torque clutch mounting bolt to 65 ft-lbs (88 Nm))
6	5103944YP	1	GROMMET, 7/8"ID
8	5025025X14YP	4	BOLT -(Torque engine mounting bolts to 17 ft-lbs (23 Nm))
9	5021682YP	1	PULLEY, 4.75 OD X 1-1
10	5050407X10YP	1	KEY, 1/4 SQ X 1-1/4
11	5046904YP	1	SPACER, 1.13 X 1.75
12	5410367AYP	1	ANCHOR, CLUTCH
13	5043636SM	1	CLUTCH ANCHOR PAD
14	5044617SM	4	WASHER, .34 X 1.25 X
15	703350	4	WASHER
16	5025011X8FS	6	BOLT
17	703115	8	NUT
18	5025055X18YP	1	BOLT, 5/16-18 X 2-1/4
19	5025139SM	1	NUT, 5/16-18 HEX SERR
20	5025585YP	2	BELLEVILLE WASHER
21	5025616YP	4	NUT
22	5025188SM	4	WASHER, 5/16" INT. TO
23	5104348YP	1	EXTENSION, TAILPIPE
24	5025470YP	1	SCREW, SELF-TAP, #8-32
58	5415993AYP	1	GUIDE, Belt
59	703332	2	WASHER
60	5025391FS	2	NUT
61	5025010X8SM	2	BOLT, 1/4-20 X 1", GD
62	593876	1	MUFFLER -(Includes muffler gaskets)
63	690941	4	NUT
64	594365	2	GASKET, Exhaust
65	5023217SM	4	WASHER, 5/16 LIGHT LO

Engine Remote Oil Tank, Hoses, & Mount Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

53047130G



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

15W-50 Synthetic Oil
 20 - 15W-50 Synthetic Oil, Case of 12 1 QT bottles
 21 - 15W-50 Synthetic Oil, Case of 4 5 QT bottles

Engine Remote Oil Tank, Hoses, & Mount Group

REF NO	PART NO	QTY	DESCRIPTION
1	595944	1	TANK, Oil -(Refer to Note: *) (S/N: 4001858852 and below)
1	84008060	1	TANK/FILTER ASSY -(Refer to Note: *) (S/N: 4001858853 and above)
2	5415332A	1	MOUNT, TANK TOP, 2100 - BLK
3	5023131	3	MOUNT, ISO, BOTTOM, RAD 5000Z-DIESEL
4	5025165	3	WASHER, 3/8" Fender
5	5025013X16	3	BOLT, 3/8-16 X 2, GD5, CZ
6	5025394	3	NUT, 3/8 - 16 HEX NYLOCK FLANGE
7	5105525	1	HOSE, 1/2" X 7/8" OD X 22" LONG
8	5021392	2	CLAMP, #6 HOSE, STAINLESS
9	5105177	1	VALVE, OIL DRAIN, M16X1.5 TO 1/2"
10	5105318	1	NUT, HEX, M16-1.5, DAPCO 4071
11	5105317	1	OIL DRAIN CAP, OIL GUARD, DAPCO 4692
12	84006660	1	HOSE, Oil Scavenge -(Refer to Note: *)
13	595942	1	HOSE, Oil Vent -(Refer to Note: *)
14	84006652	1	HOSE, OIL SUPPLY -(Refer to Note: *) (S/N: 4001858852 and below)
14	84006651	1	HOSE, Oil Supply -(Refer to Note: *) (S/N: 4001858853 and above)
15	5021030SM	1	TIE WRAP, 5-1/2" LONG
16	84007094	1	FILTER, Oil
17	5025011X8	2	BOLT, 5/16-18 X 1" GRD5 YZ
18	5025155	2	WASHER, 5/16" SAE
19	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
20	100169	1	OIL-1QT VANGUARD (CASE) -(Case of twelve 1 QT bottles)
21	100170	1	OIL-5QT VANGUARD (CASE) -(Case of four 5 QT bottles)
22	595931	1	CAP, Oil Fill -(Yellow Cap)
22	84008058	1	CAP, Oil Fill -(Black Cap)
23	595933	1	DIPSTICK

Footnotes:

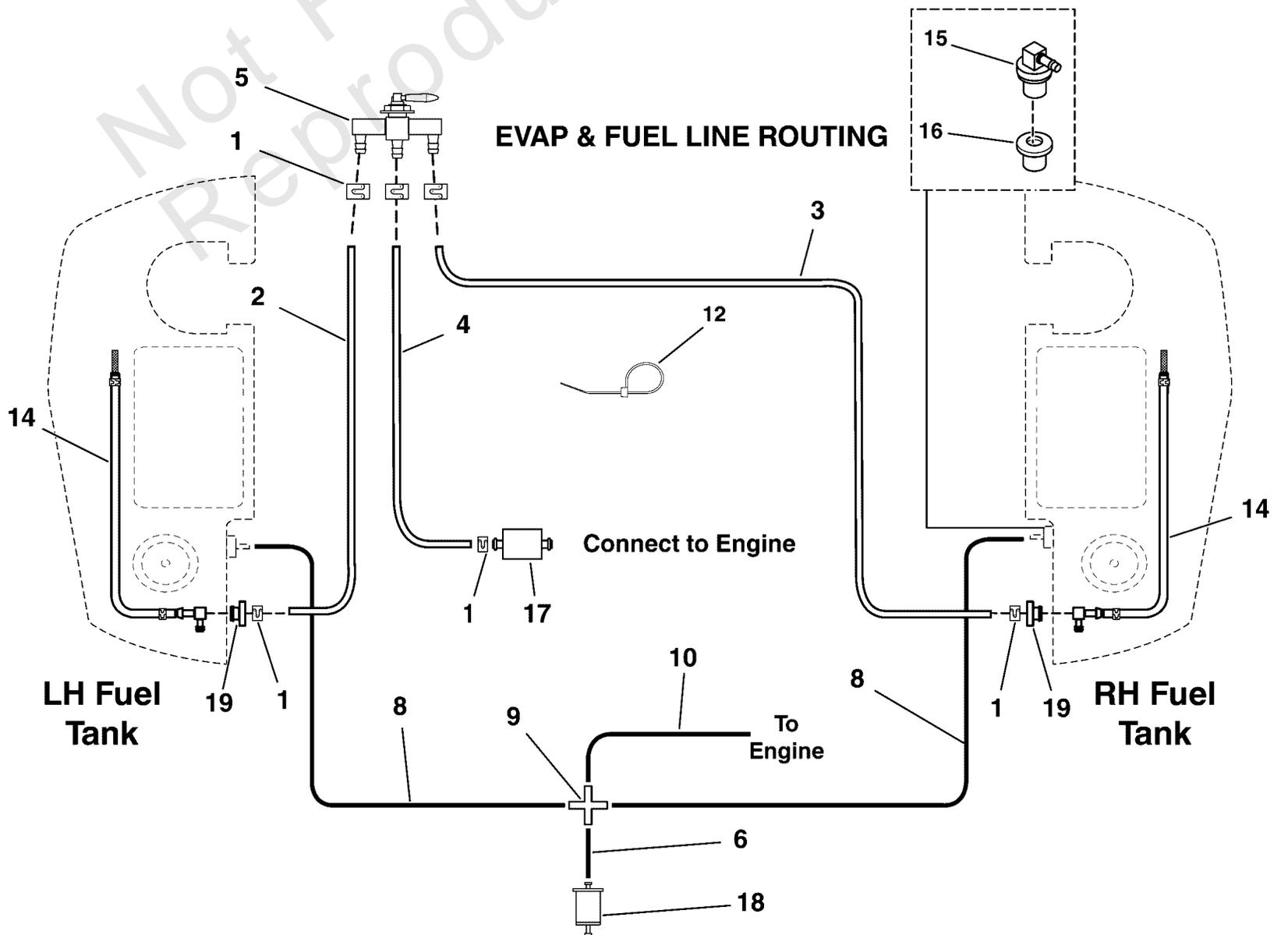
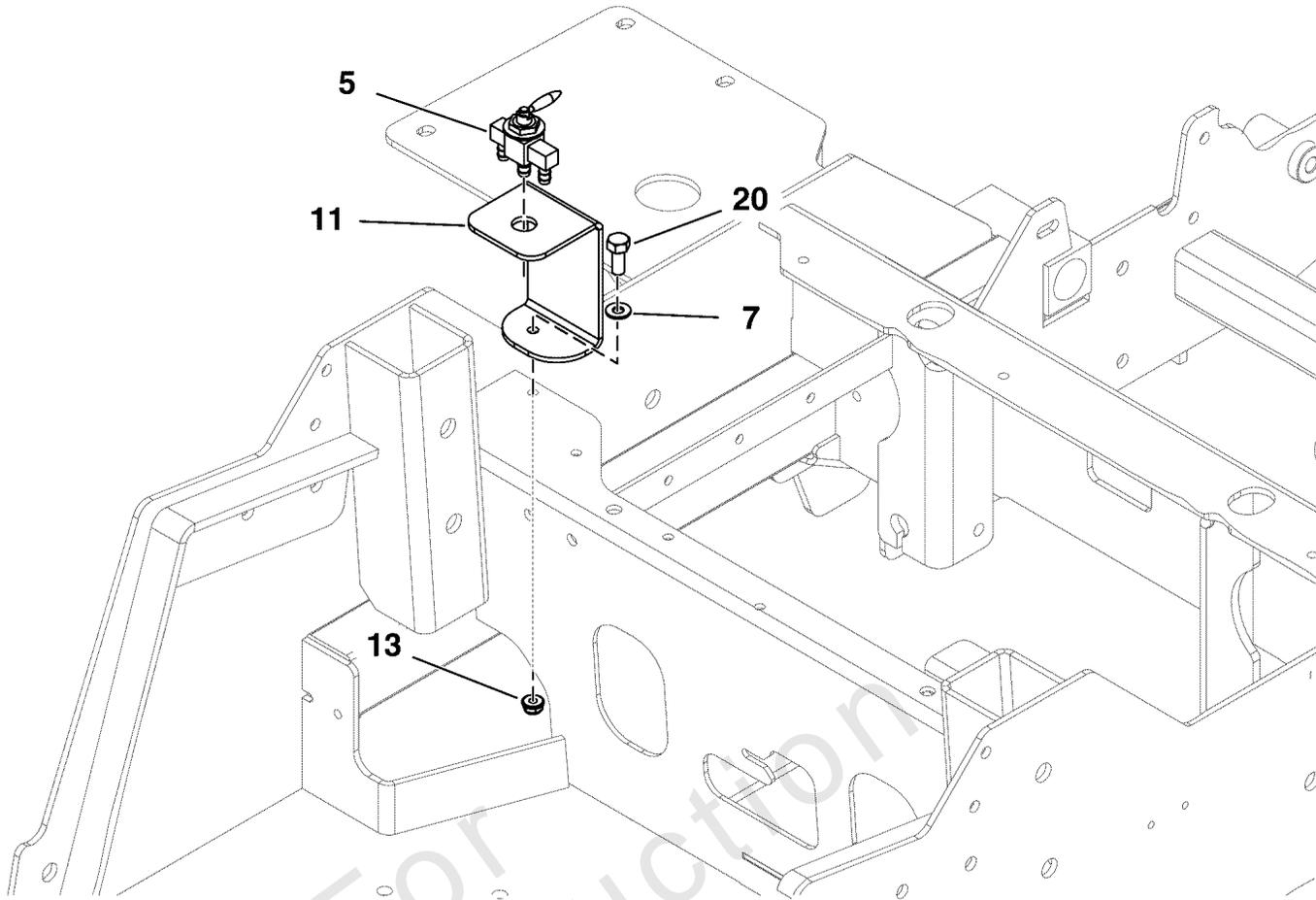
Note: *Order Oil Guard replacement parts from your Authorized Briggs & Stratton Engine Service Provider

Fuel Supply Hose, Tank Replacement Parts, and EVAP Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

5303527B 5303818B



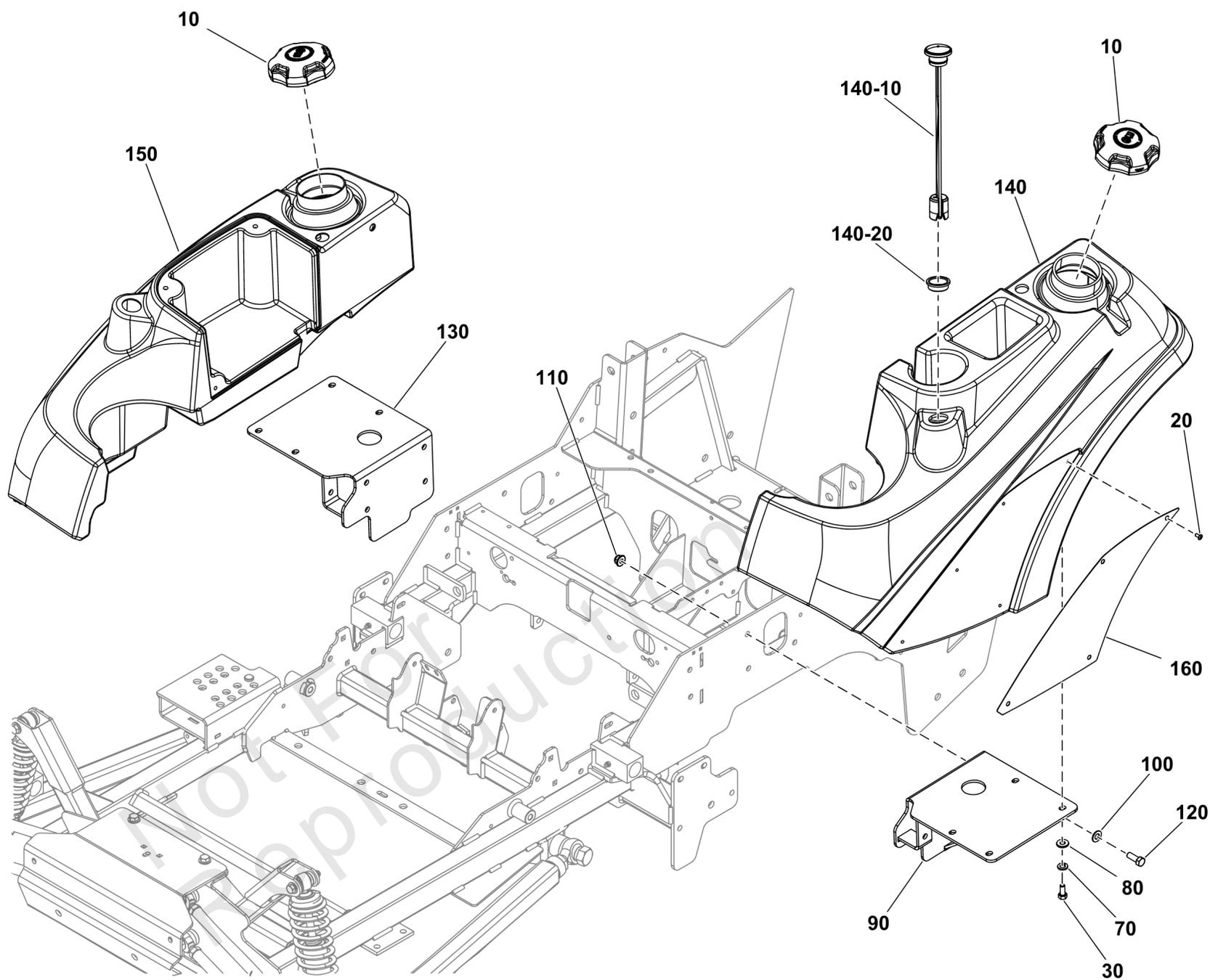
Fuel Supply Hose, Tank Replacement Parts, and EVAP Group

REF NO	PART NO	QTY	DESCRIPTION
1	93807	6	CLAMP, Hose
2	5050831X11	1	1/4" Fuel Line, 11" Long
3	5050831X27	1	HOSE, 1/4" FUEL, 27.00"
4	5050831X22	1	1/4" Fuel Line, 22" Long
5	5023358	1	VALVE, FUEL STRAIGHT, OUTLET
6	7700552X3	1	HOSE, VAPOR, 5MM ID, 3.00 LG
7	5025155	1	WASHER, 5/16" SAE
8	7700552X23	2	HOSE, VAPOR, 5MM ID, 23.00 LG
9	5105394	1	FITTING, BARBED CROSS, 3/16" BLK NYLON
10	7700552X17	1	HOSE, VAPOR, 5MM ID, 17.00 LG
11	5415357A	1	MOUNT, FUEL VALVE, 2100Z - BLK
12	5021030	4	TIE, SELF-LOCKING, 6"
13	5025392	1	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
14	5101144	2	PICKUP TUBE ASSEMBLY, FUEL LINE (SV)
15	770046	2	REMOTE VENT ASSEMBLY
16	209043	2	GROMMET (SV)
17	5021178X3	1	FUEL FILTER (SV)
18	80025019	1	FILTER, FUEL
19	1726400	2	BUSHING-FUEL TANK RED RUBBER
20	5025011X6	1	BOLT, 5/16-18 X 3/4 GD5

Fuel Tank and Mount Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078



Fuel Tank and Mount Group

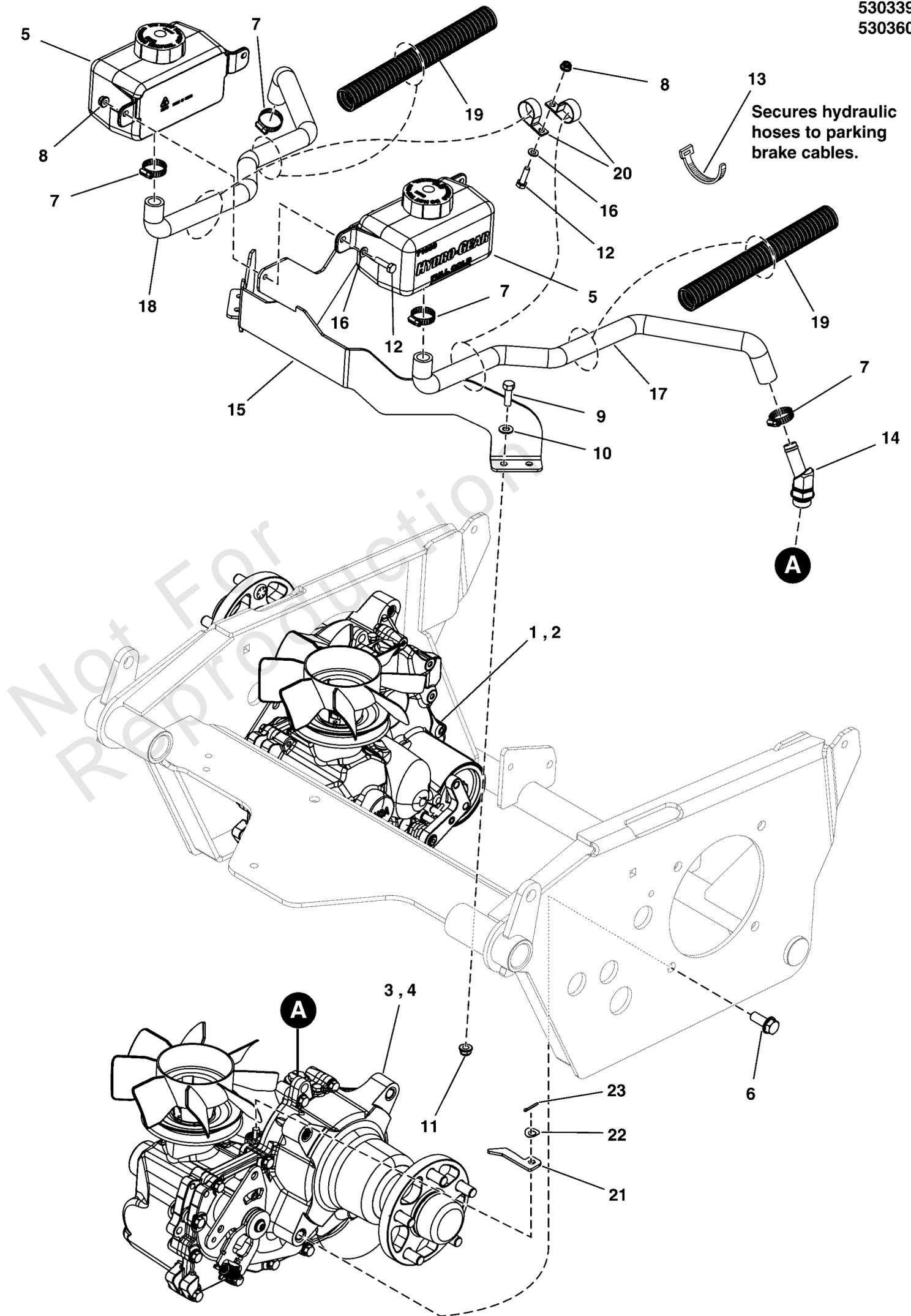
REF NO	PART NO	QTY	DESCRIPTION
10	84005958	2	CAP, FUEL TANK
20	5025386SM	8	SCREW, #10-24 X 3/8"
30	5025011X6SM	8	BOLT, 5/16-18 X 3/4"
70	5025170SM	8	WASHER, 5/16" LOCK
80	5025292SM	8	WASHER, 5/16" GD.9 FL
90	84008230	1	MOUNT, Tank
100	5025156FS	8	WASHER
110	5025394SM	8	NUT, 3/8-16 HEX NYLOCK
120	5025013X8SM	8	BOLT, 3/8-16 X 1" GD5
130	84008231	1	MOUNT, Tank
140	5108364FS	1	TANK, FUEL -(Includes items # 140-10 and 140-20.)
140-10	5022917FS	2	GAUGE, FUEL -(One per fuel tank)
140-20	5022917X1SM	2	GROMMET, FUEL GAUGE -(One per fuel tank)
150	5108363FS	1	TANK, FUEL
160	5401095BFS	2	BADGE

Hydraulic Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

5303399B
5303601B



Hydraulic Group

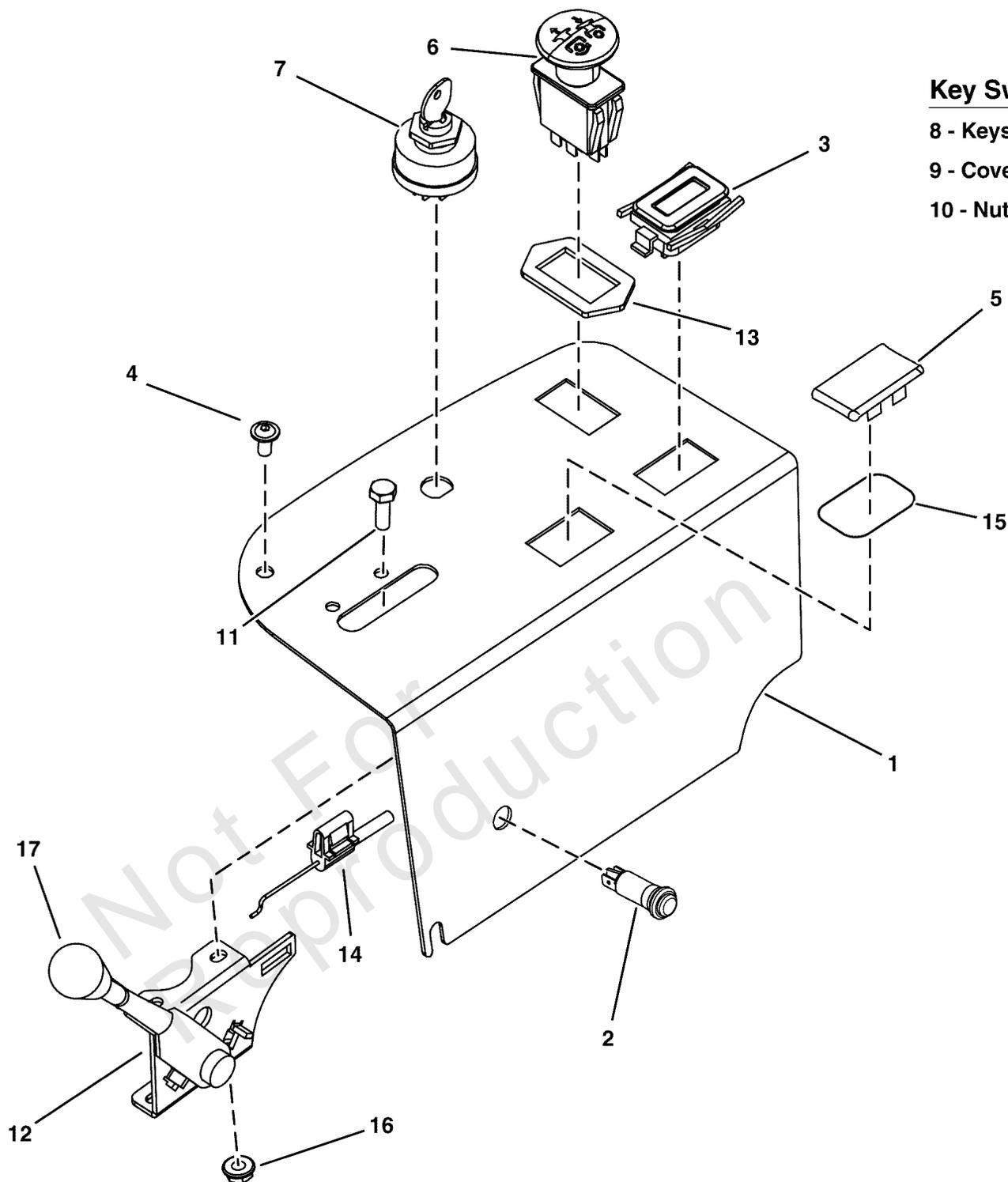
REF NO	PART NO	QTY	DESCRIPTION
1	84008006	1	TRANSAXLE -(Right side)(60"/61" Models Only)
2	84008007	1	TRANSAXLE -(Right side)(52" Models Only)
3	84007999	1	TRANSAXLE -(Left side)(60"/61" Models Only)
4	84008000	1	TRANSAXLE -(Left side)(52" Models Only)
5	5101998	2	HYDRO TANK, HYDRO-GEAR 71938, 1 LITER -(Includes item #5-1)
5-1	5100778X1	2	RESERVIOR CAP -(Not illustrated)
6	5025535	8	BOLT, 1/2-13 X 1-1/4, SF, PLT W/PATCH
7	5021164	4	CLAMP, #10 HOSE, STAINLESS
8	5025391	3	NUT, 1/4-20 HEX NYLOCK FLANGE
9	5025011X8	4	BOLT, 5/16-18 X 1 GD5 CZ
10	5025155	4	WASHER, 5/16" SAE
11	5025392	4	NUT, 5/16-18 HEX NYLOCK FLANGE
12	5025010X8	3	BOLT, 1/4-20 X 1" GD5 CZ
13	5021030	4	TIE, SELF-LOCKING, 6"
14	5104409	2	FITTING 22.5 ELBOW 5/8 TUBE-7/8-14 O-RING
15	84007971	1	MOUNT, Tank
16	5025154	3	WASHER, 1/4 SAE
17	5105178	1	HOSE, HYD RES, LH, IS2100Z
18	5105179	1	HOSE, HYD RES, RH, IS2100Z
19	5100384X13	2	LOOM, CONVOLUTED SPLIT, 1 ID - 13 LONG
20	5021500	2	CLAMP, VINYL INSULATED, 1.00
21	5104436	2	ARM, TRANSAXLE RELEASE, ZT4400
22	5023202	2	WASHER, WAVE, M10
23	80002736	2	PIN, 3/32 X 0.750, COT, ZINC/CLEAR

Instrument Control Panel Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

5303773B



Key Switch Service Parts

- 8 - Keys, Ignition, Molded, Set
- 9 - Cover, Plastic, Snap On
- 10 - Nut, Plastic

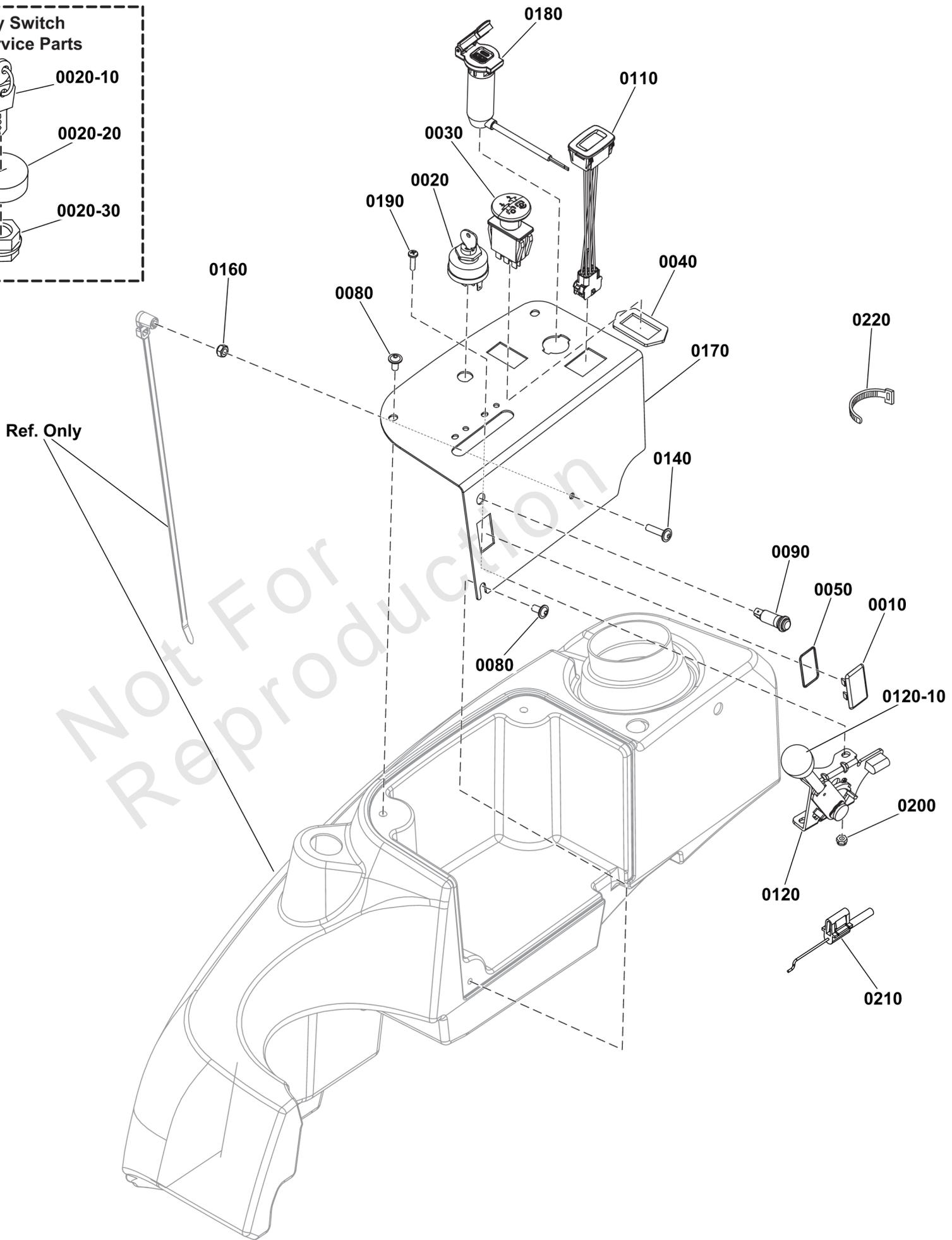
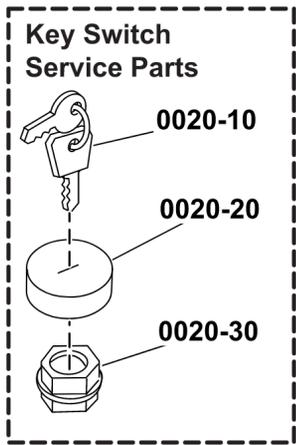
Instrument Control Panel Group

REF NO	PART NO	QTY	DESCRIPTION
1	5412044AYP	1	PANEL, Control
2	5103809	1	LIGHT, INDICATOR, PANEL, LED, RED
3	84008510	1	HOURMETER
4	5106469	1	SCREW, FLANGE, ALLEN HD, 1/4-20X.5 S/S
5	1709188	1	PLUG, .820X1.44 HOLE, BLACK PLASTIC
6	1722887	1	SWITCH-PTO PUSH
7	5020927	1	SWITCH, IGNITION, 6 POST
8	5022789	1	KEY, IGNITION MOLDED SET
9	5022790	1	COVER, PLASTIC, SNAP ON
10	5022791	1	PLASTIC NUT
11	5025179X6	2	SCREW, #10-24 X 3/4" ROUND PHILLIPS
12	5101537	1	LEVER, THROTTLE CONTROL, HEAVY-DUTY
13	5022222	1	RING, SWITCH RETAINER
14	5101073	1	CABLE, THROTTLE, 42"
15	5022269	1	O-RING, 7/8" ID X 1/16" W
16	5025271	2	NUT, Hex, Nylon Lock, #10-24
17	5046360X1	1	THROTTLE CONTROL HANDLE/KNOB

Instrument Control Panel Group - Models with USB Port S/N: 4002403853 and Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078



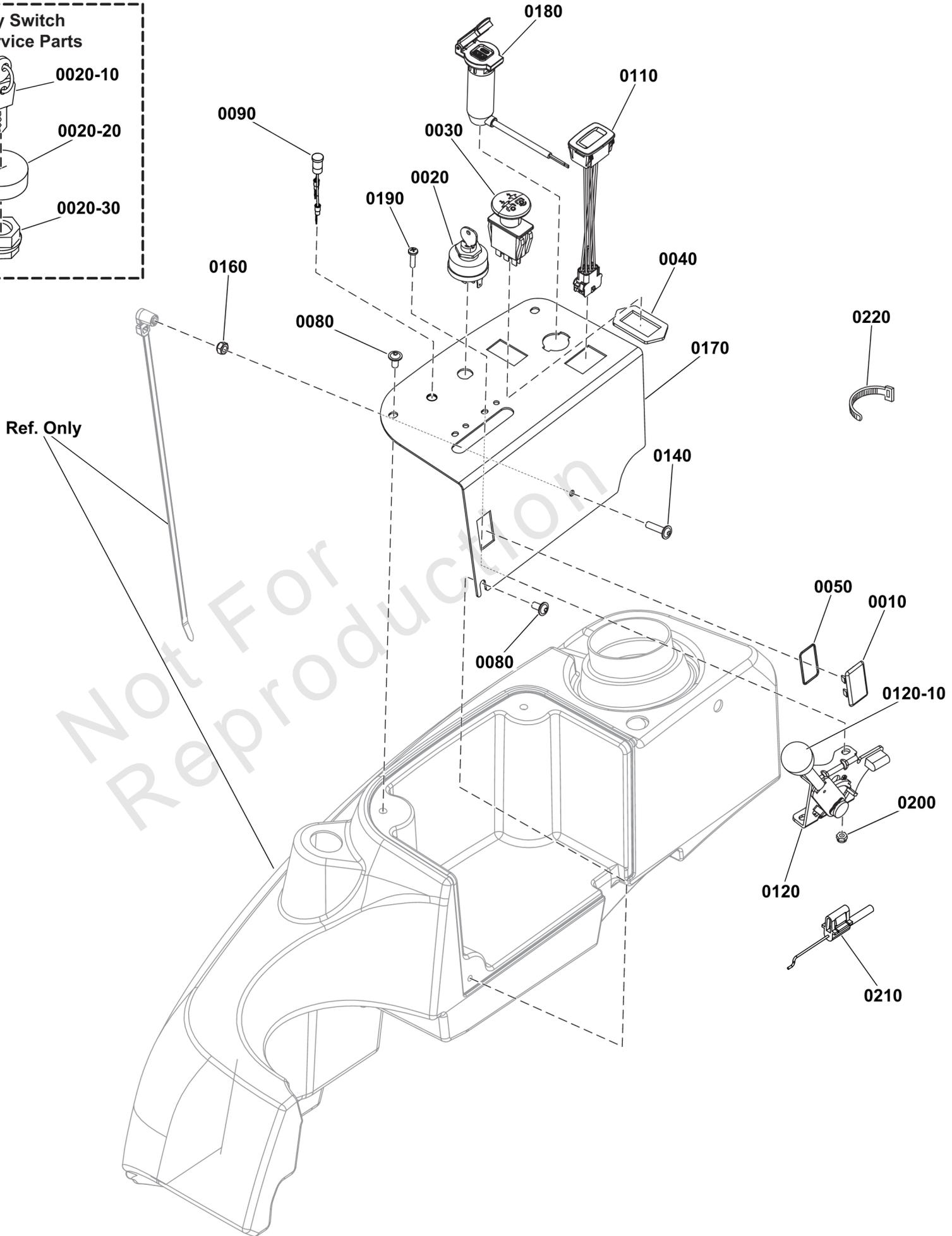
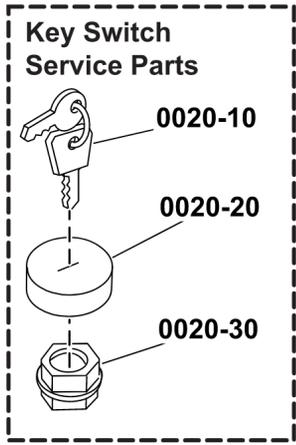
Instrument Control Panel Group - Models with USB Port S/N: 4002403853 and Below

REF NO	PART NO	QTY	DESCRIPTION
0010	1709188SM	1	PLUG, BLACK PLASTIC
0020	5020927FS	1	SWITCH, IGNITION -(Includes items # 0020-10, 0020-20, and 0020-30).
0020-10	5022789	1	KEY, IGNITION MOLDED SET
0020-20	5022790	1	COVER, PLASTIC, SNAP ON
0020-30	5022791SM	1	NUT, PLASTIC (SV)
0030	1722887SM	1	SWITCH-PTO PUSH
0040	5022222SM	1	RING, SWITCH RETAINER
0050	5022269SM	1	O-RING, 7/8" ID X 1/1
0080	84002228	2	SCREW, FLANGE
0090	5103809YP	1	LIGHT, Indicator
0110	84008510	1	HOURMETER -(Includes ref # 0110-10)
0110-10	84008688	1	CLIP -(Replacement clip for item #0110)
0120	5101537SM	1	LEVER, THROTTLE CONTR -(Includes item # 0120-10).
0120-10	5046360X1SM	1	KNOB, Throttle Control
0140	5025299X8YP	1	CAPSCREW
0160	5025095SM	1	NUT, 1/4-20 HEX NYLON
0170	84011147	1	PANEL, Control Panel
0180	84008798	1	USB Port
0190	5025179X6SM	2	SCREW - #10-24
0200	5025271FS	2	NUT
0210	5101073SM	1	CABLE, THROTTLE, 42
0220	5021029SM	1	TIE, Cable 11" Long

Instrument Control Panel Group - Models with USB Port S/N: 4002403854 and Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078



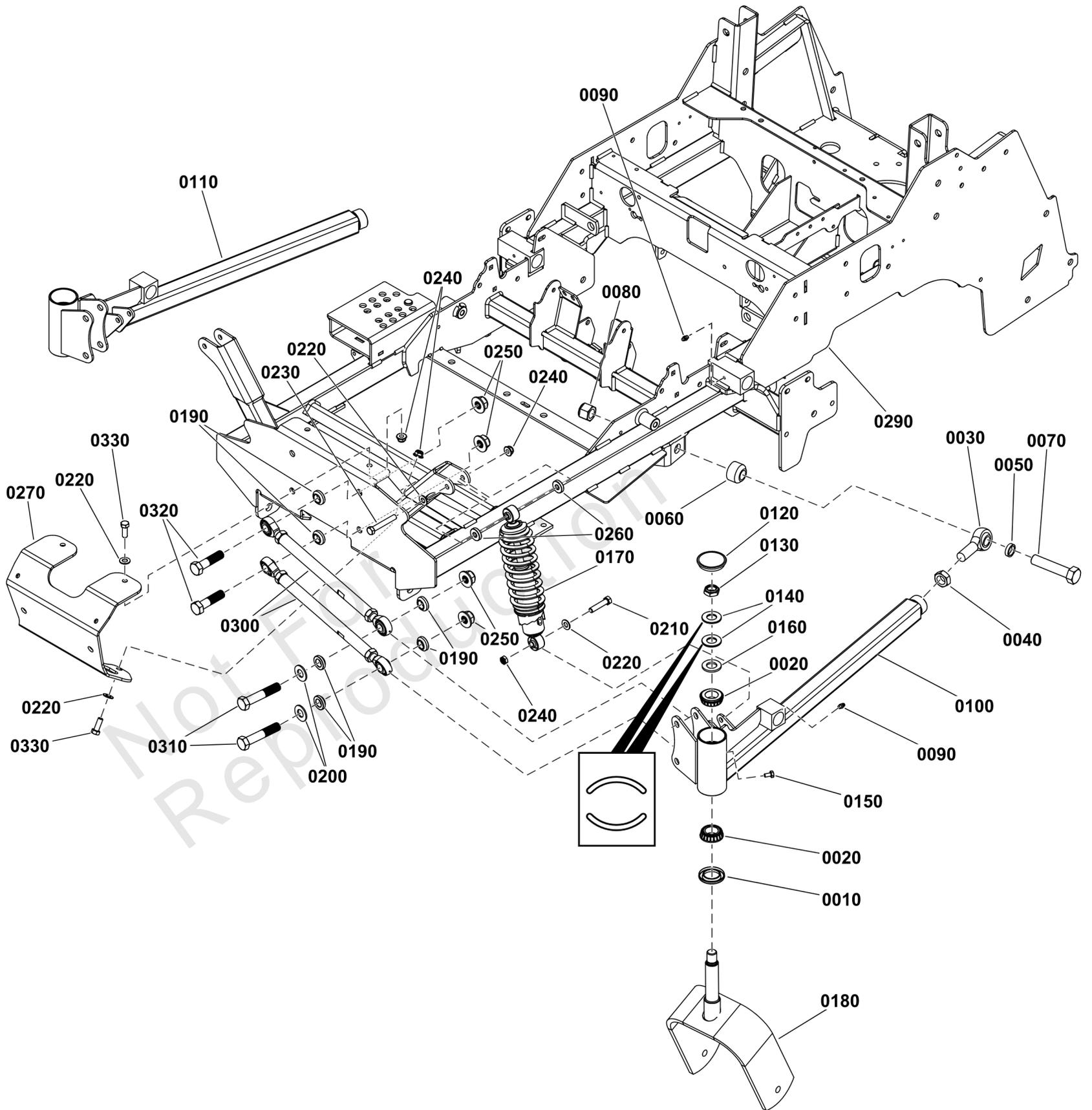
Instrument Control Panel Group - Models with USB Port S/N: 4002403854 and Above

REF NO	PART NO	QTY	DESCRIPTION
0010	1709188SM	1	PLUG, BLACK PLASTIC
0020	5020927FS	1	SWITCH, IGNITION
0020-10	1717163SM	1	KEY-IGNITION INDAK
0020-20	5022790	1	COVER, PLASTIC, SNAP ON
0020-30	5022791SM	1	NUT, PLASTIC (SV)
0030	1722887SM	1	SWITCH-PTO PUSH
0040	5022222SM	1	RING, SWITCH RETAINER
0050	5022269SM	1	O-RING, 7/8" ID X 1/1
0080	84002228	2	SCREW, FLANGE
0090	84012633	1	LIGHT, Indicator
0110	84008510	1	HOURMETER -(Includes ref # 0110-10)
0110-10	84008688	1	CLIP -(Replacement clip for item #0110)
0120	5101537SM	1	LEVER, THROTTLE CONTR -(Includes item # 0120-10).
0120-10	5046360X1SM	1	KNOB, Throttle Control
0140	5025299X8YP	1	CAPSCREW
0160	5025095SM	1	NUT, 1/4-20 HEX NYLON
0170	84011146	1	PANEL, Control Panel
0180	84008798	1	USB Port
0190	5025179X6SM	2	SCREW - #10-24
0200	5025271FS	2	NUT
0210	5101073SM	1	CABLE, THROTTLE, 42

Main Frame and Front Suspension Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078



Main Frame and Front Suspension Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5021072SM	2	SEAL, GREASE
0020	5020884SM	4	BEARING, TAPERED ROLL
0030	5022039SM	2	BALL JOINT, 3/4-16, M
0040	5025093SM	2	NUT, 3/4-16 HEX JAM
0050	5047461SM	2	SPACER, .76 X 1.00 X
0060	5046093SM	2	SPACER, .75 X 1.50 X
0070	5025265X28SM	2	BOLT, 3/4-16 X 3-1/2" -(Torque A-Arm Mount Bolts to 165-170 ft-lbs (224-230 Nm))
0080	5025284SM	2	NUT, 3/4-16 HEX NYLON
0090	5020095SM	4	GREASE FITTING, 1/4-2
0100	84008273	1	ARM, Suspension - LH
0110	84008274	1	ARM, Suspension - RH
0120	5109845FS	2	CAP
0130	5025448SM	2	NUT - 3/4-16 HEX JAM
0140	5025449SM	4	WASHER, BELLEVILLE
0150	5025457SM	2	BOLT - 1/4-28 X 1/2
0160	5025160SM	2	WASHER, 3/4" SAE
0170	5107851FS	2	ABSORBER, SHOCK
0180	5419196BFS	2	YOKE, CASTER
0190	84006987	12	SPACER
0200	5025158SM	4	WASHER, 1/2" SAE
0210	703589	2	CAPSCREW, 3/8-16X2
0220	5025156FS	8	WASHER
0230	84007037	2	BOLT
0240	5025394SM	8	NUT, 3/8-16 HEX NYLOCK
0250	84004661	8	LOCKNUT
0260	84006562	4	SPACER
0270	5419630BFS	1	PLATE
0290	-----	1	WELD, MAIN FRAME, ISX2200/800 - RED -(Refer to Note: *)
0300	84006986	4	ARM, CONTROL
0310	5025017X22SM	4	BOLT, 1/2-13 X 2-3/4"
0320	5025017X16YP	4	BOLT, 1/2-13 X 2 GD5
0330	5025013X8SM	4	BOLT, 3/8-16 X 1" GD5
1000	5020883SM	4	BEARING CUP -(Not illustrated) (Two races per caster hub.)

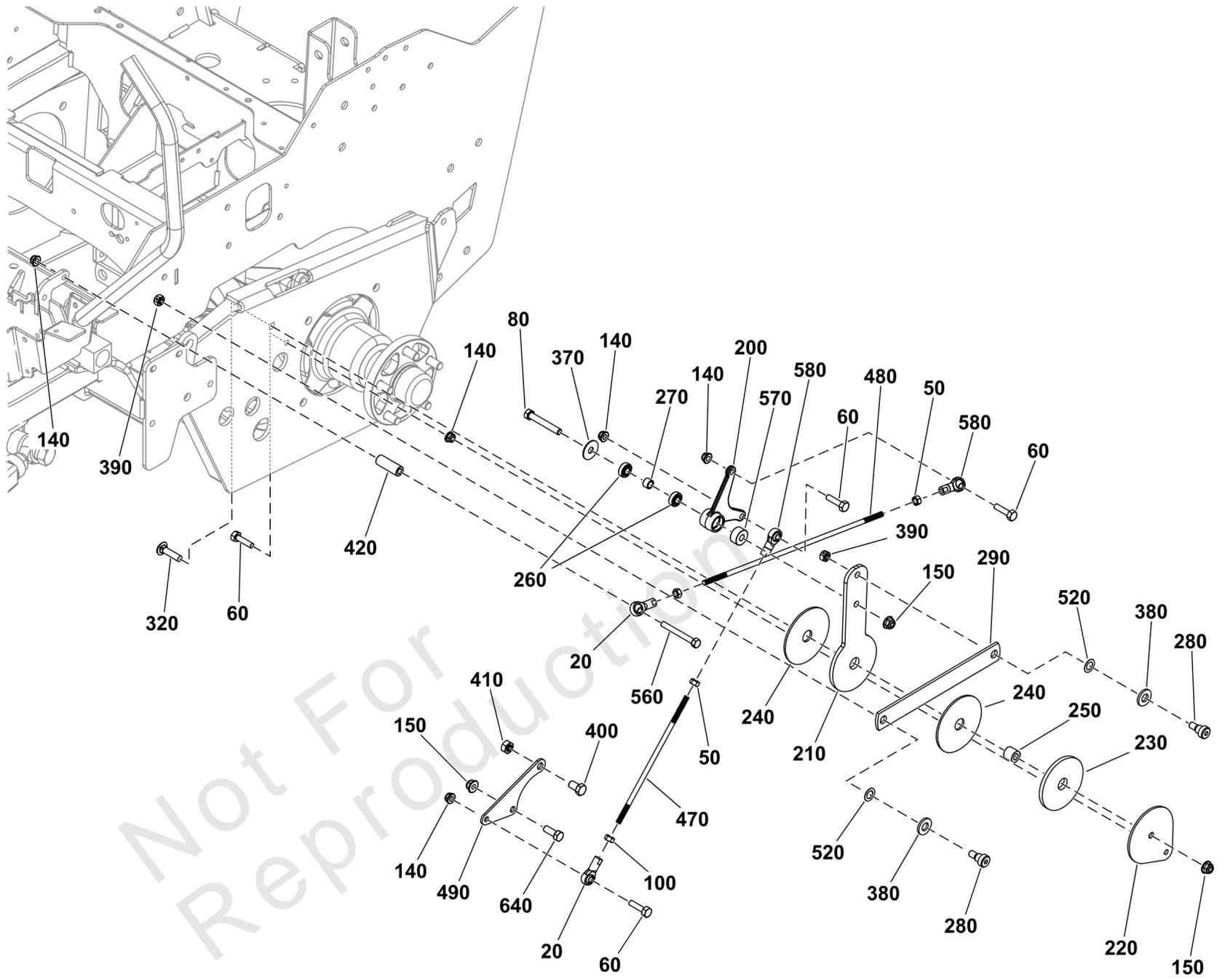
Footnotes:

Note: *If replacing contact the Service Department at 1-800-933-6175.

Motion Control Group - Control System S/N: 4002340028 and Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078



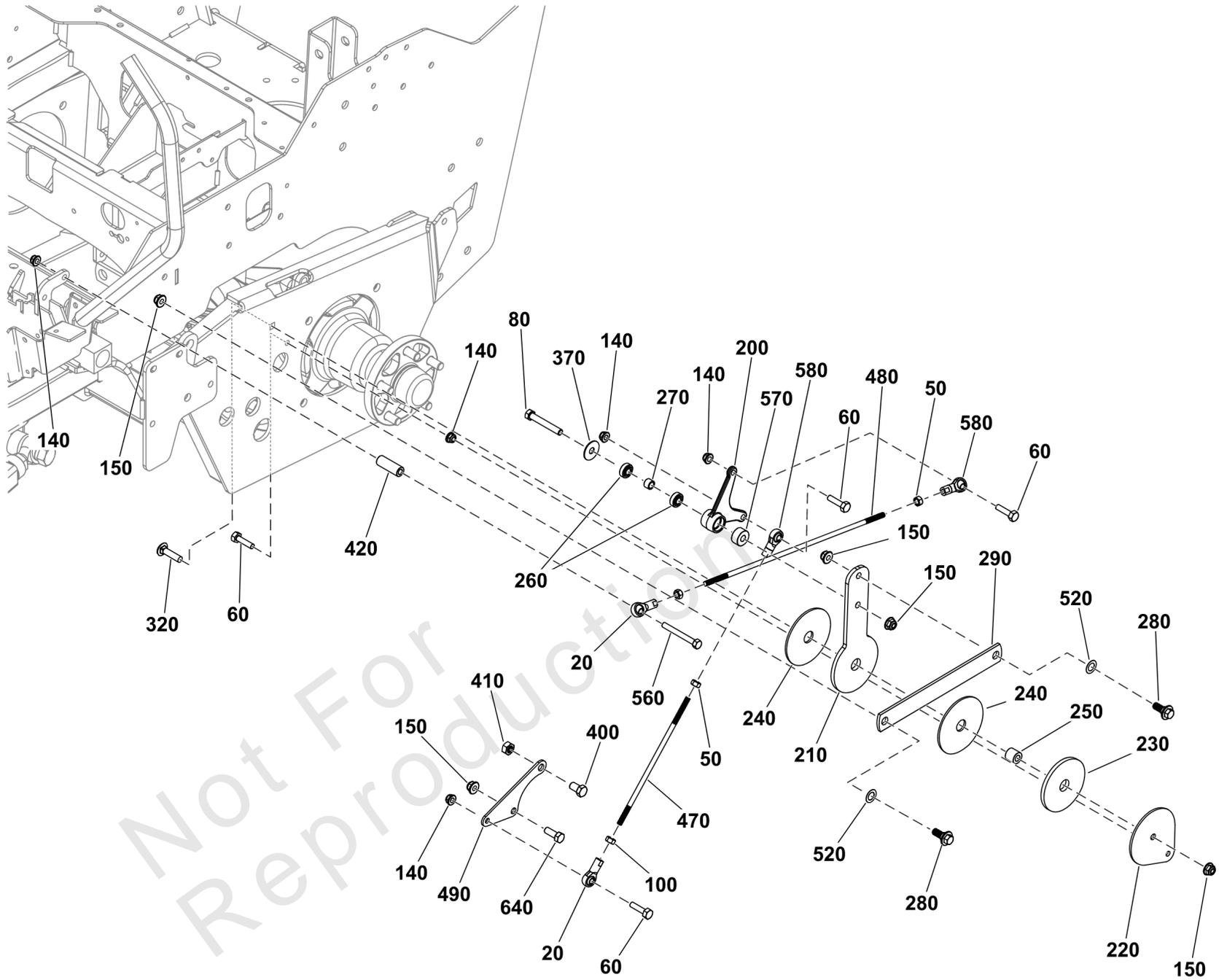
Motion Control Group - Control System S/N: 4002340028 and Below

REF NO	PART NO	QTY	DESCRIPTION
20	5104493YP	4	BALL JOINT 5/16-24 RH
50	5023212SM	4	NUT, 5/16-24 HEX, LH
60	5025055X10YP	12	BOLT, 5/16-18 X 1-1/4
80	84007037	2	BOLT
100	5025033FS	4	NUT
140	5025392FS	20	NUT
150	5025394SM	10	NUT, 3/8-16 HEX NYLOCK
200	5103718YP	2	PIVOT, CONTROL SYSTEM
210	5410268YP	2	PLATE, CTRL SYST ARM
220	5410271AYP	2	PLATE, CTRL SYSTEM LK
230	5103704YP	2	PAD, .77 X 3.50 X .25
240	5103672YP	4	PAD, CONTROL SYSTEM
250	5103705YP	2	SPACER, .39X.75X.69
260	5102003YP	4	BEARING, .375ID
270	5103676YP	2	SPACER, .39X.55X.38
280	5025356SM	4	BOLT, 3/8-16 X 3/8",
290	5411375AYP	2	LINK, Control
320	5025146X12YP	2	BOLT, 3/8-16 X 1-1/2
370	5025165SM	2	WASHER, 3/8" FENDER
380	5025440SM	4	WASHER, 1/2" YELLOW
390	5025100SM	4	NUT, 3/8-16 HEX SIDE
400	5025015X6SM	2	BOLT, 7/16-14
410	5025044SM	2	NUT, 7/16-14 HEX
420	84008020	2	SPACER
470	5104053YP	2	ROD, 5/16-24
480	5102255YP	2	ROD, HYDRO LINKAGE
490	5411301AYP	2	PLATE, CONTROL MOUNT
520	5103784YP	4	WAVE WASHER
560	5025011X22YP	2	BOLT, 5/16-18 X 2-3/4
570	5046860SM	2	SPACER
580	5104494YP	4	BALL JOINT 5/16-24 LH
640	5025013X8SM	2	BOLT, 3/8-16 X 1" GD5

Motion Control Group - Control System S/N: 4002340029 and Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078



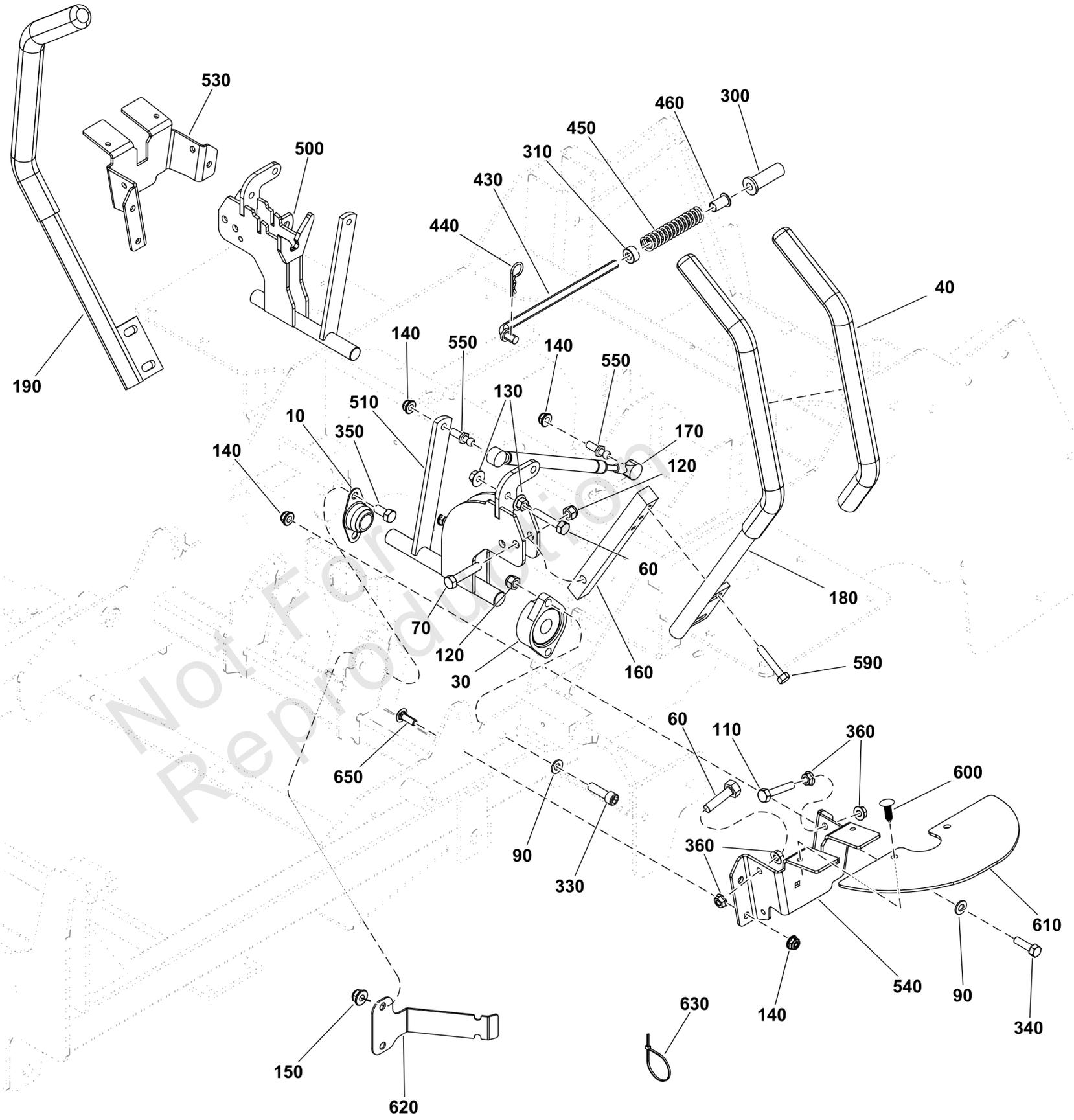
Motion Control Group - Control System S/N: 4002340029 and Above

REF NO	PART NO	QTY	DESCRIPTION
20	5104493YP	4	BALL JOINT 5/16-24 RH
50	5023212SM	4	NUT, 5/16-24 HEX, LH
60	5025055X10YP	12	BOLT, 5/16-18 X 1-1/4
80	84007037	2	BOLT
100	5025033FS	4	NUT
140	5025392FS	20	NUT
150	5025394SM	14	NUT, 3/8-16 HEX NYLOCK
200	5103718YP	2	PIVOT, CONTROL SYSTEM
210	5410268YP	2	PLATE, CTRL SYST ARM
220	5410271AYP	2	PLATE, CTRL SYSTEM LK
230	5103704YP	2	PAD, .77 X 3.50 X .25
240	5103672YP	4	PAD, CONTROL SYSTEM
250	5103705YP	2	SPACER, .39X.75X.69
260	5102003YP	4	BEARING, .375ID
270	5103676YP	2	SPACER, .39X.55X.38
280	84010948	4	BOLT, Washer
290	5411375AYP	2	LINK, Control
320	5025146X12YP	2	BOLT, 3/8-16 X 1-1/2
370	5025165SM	2	WASHER, 3/8" FENDER
400	5025015X6SM	2	BOLT, 7/16-14
410	5025044SM	2	NUT, 7/16-14 HEX
420	84008020	2	SPACER
470	5104053YP	2	ROD, 5/16-24
480	5102255YP	2	ROD, HYDRO LINKAGE
490	5411301AYP	2	PLATE, CONTROL MOUNT
520	5103784YP	4	WAVE WASHER
560	5025011X22YP	2	BOLT, 5/16-18 X 2-3/4
570	5046860SM	2	SPACER
580	5104494YP	4	BALL JOINT 5/16-24 LH
640	5025013X8SM	2	BOLT, 3/8-16 X 1" GD5

Motion Control Group - Handles and Dampeners

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078



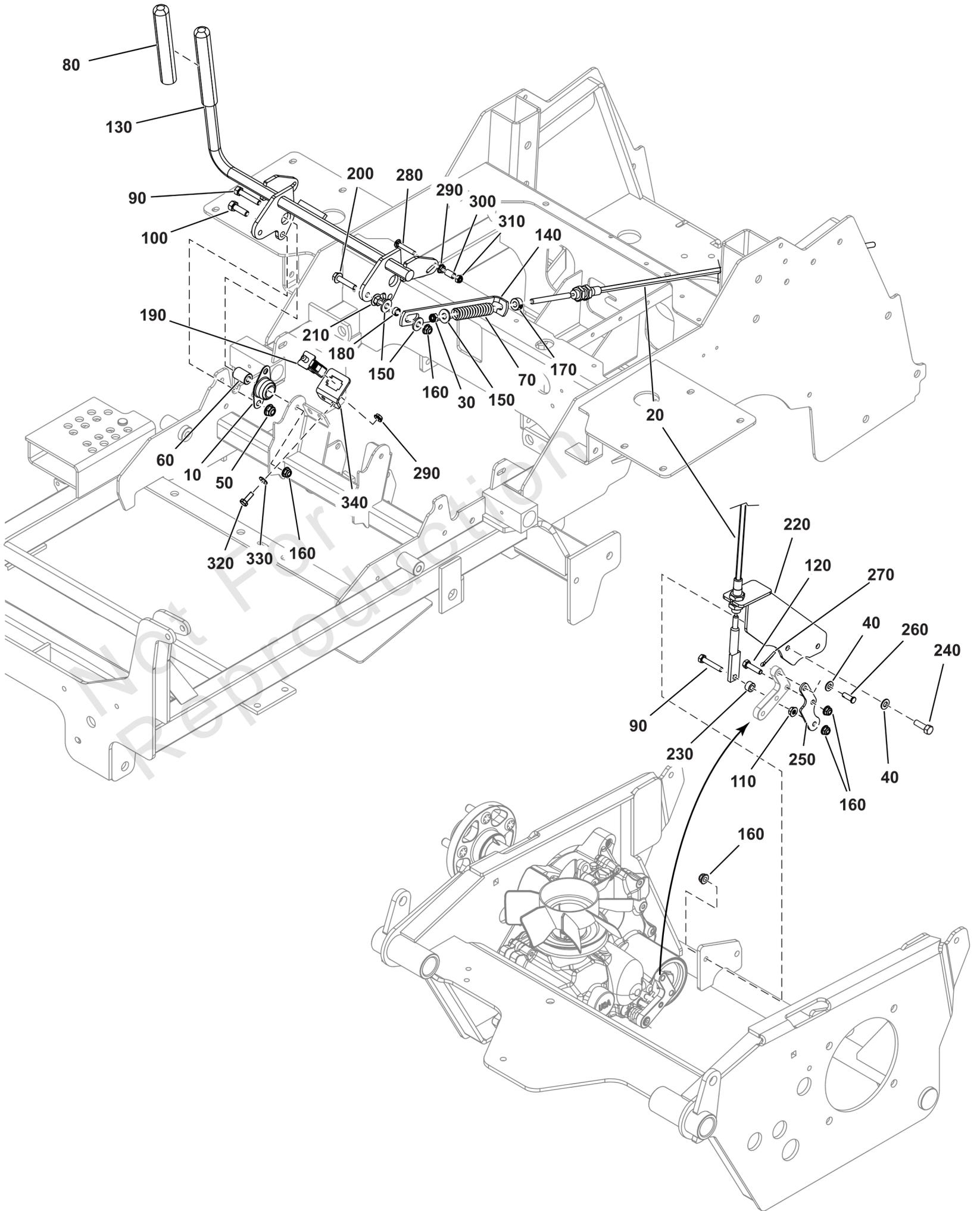
Motion Control Group - Handles and Dampeners

REF NO	PART NO	QTY	DESCRIPTION
10	5021098SM	2	BEARING, BRONZE FLANG
30	5021499SM	2	BEARING, FLANGE
40	5104722FS	2	GRIP
60	5025055X10YP	12	BOLT, 5/16-18 X 1-1/4
70	5025013X14SM	4	BOLT, 3/8-16 X 1-3/4"
90	703350	6	WASHER
110	5025055X14SM	2	BOLT, 5/16-18 X 1-3/4
120	5025096SM	8	NUT, 3/8-16 HEX NYLON
130	5025139SM	4	NUT, 5/16-18 HEX SERR
140	5025392FS	20	NUT
150	5025394SM	10	NUT, 3/8-16 HEX NYLOCK
160	5103106AYP	2	MOUNT, CONTROL ARM -
170	5100940SM	2	DAMPNER, CONTROL
180	84004629	1	CONTROL, HANDLE
190	84004630	1	CONTROL, HANDLE
300	5104375YP	2	BUSHING, FLANGED, 3/8
310	5010546SM	2	COLLAR, 3/8" SET
330	5025327SM	4	BOLT, 3/8-16 X 1-1/4
340	5025011X6SM	2	BOLT, 5/16-18 X 3/4"
350	5025013X6SM	4	BOLT, 3/8-16 X 3/4" G
360	5025127SM	8	NUT, 5/16-18 HEX SERR
430	5100947SM	2	ROD, NEUTRAL
440	5025210YP	2	PIN, HAIR, .0915 X 1-7/8
450	5022645SM	2	SPRING, REVERSE RETUR
460	5023260SM	2	BUSHING, NYLON
500	5416664AYP	1	SHAFT-CONTROL
510	5416663AYP	1	SHAFT-CONTROL
530	5416170AYP	1	PLATE
540	5416171AYP	1	PLATE
550	5101307SM	4	10MM BALL STUD, 5/16-
590	703354	4	SCREW, 5/16-18
600	5025431SM	4	PUSH RIVET (TREE TYPE
610	5401248SM	2	GUARD, RUBBER MOTION
620	5413137AYP	1	BRACKET, HARNESS MOUNT, 2100 - BLK
630	5021030SM	1	TIE WRAP, 5-1/2" LONG
650	5025145X6SM	4	BOLT, 5/16-18 X 3/4",

Parking Brake Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078



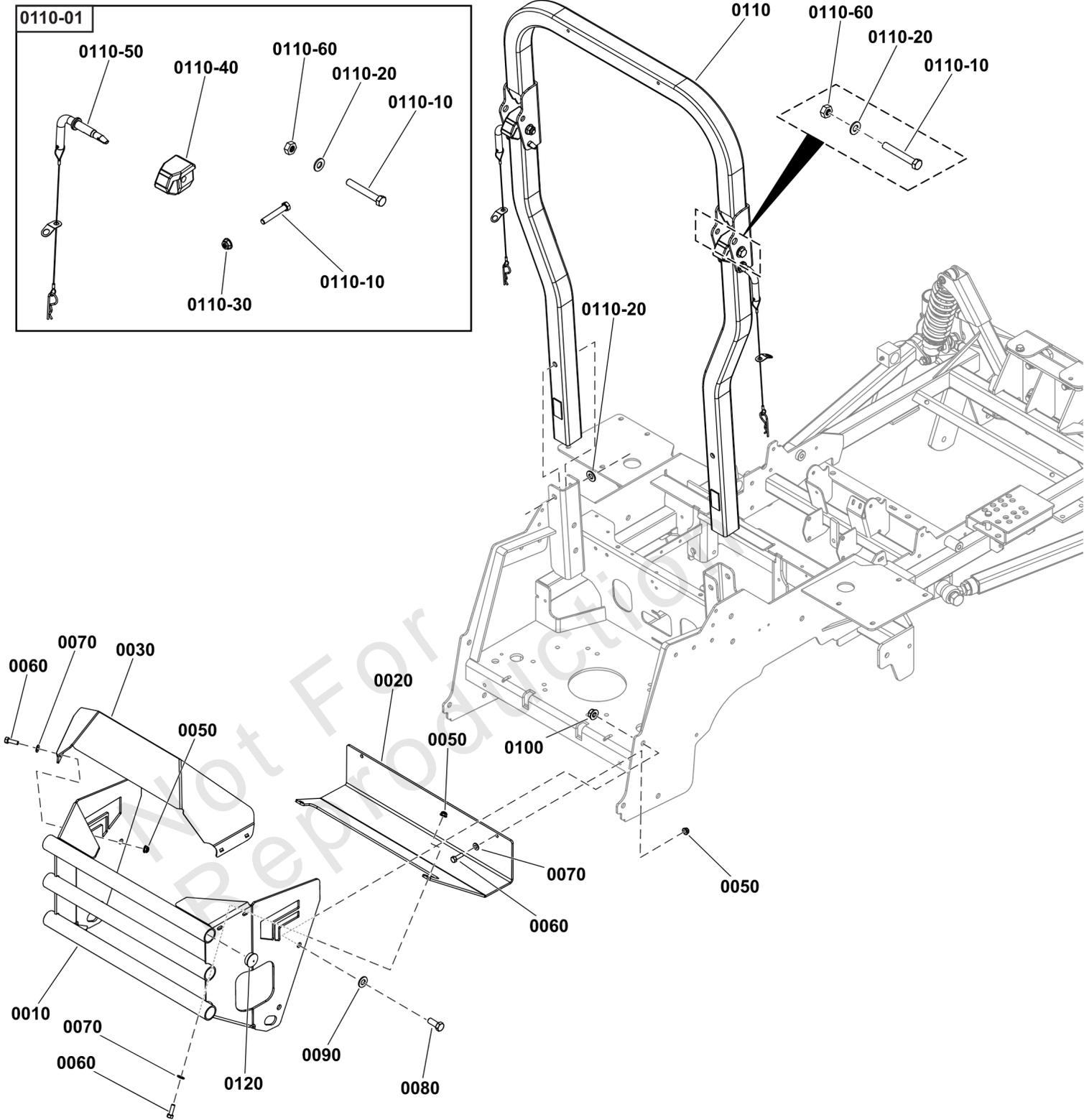
Parking Brake Group

REF NO	PART NO	QTY	DESCRIPTION
10	5021098SM	2	BEARING, BRONZE FLANG
20	5104235YP	2	CABLE, PARKING BRAKE
30	5025045SM	2	NUT, 5/16-24 HEX NYLO
40	703350	6	WASHER
50	5025394SM	4	NUT, 3/8-16 HEX NYLOCK
60	5042134SM	2	SPACER, .32 X .75 X 1
70	5100385YP	2	SPRING, COMP. 1/2 ID
80	5101038SM	1	GRIP, FOAM
90	5025011X14SM	4	BOLT, 5/16-18 X 1-3/4
100	5025013X6SM	4	BOLT, 3/8-16 X 3/4" G
110	5025127SM	2	NUT, 5/16-18 HEX SERR
120	5025055X10YP	2	BOLT, 5/16-18 X 1-1/4
130	5601396	1	WELD, BRAKE SHAFT, LOCKOUT, P1/P2 (w/ Grip)
140	5413063AYP	2	ARM, Link
150	5025337FS	6	WASHER
160	703115	12	NUT
170	5020047SM	2	COLLAR, 5/16" SET
180	5102463YP	2	SPACER, .33 X .50X.25
190	7022886YP	1	SWITCH, DP NO/NC SNAP
200	5023157SM	2	BOLT - 5/16-18
210	5025139SM	2	NUT, 5/16-18 HEX SERR
220	84008227	2	BRACKET, Brake
230	5103767YP	2	SPACER, .33X.625X.360
240	5025011X8FS	4	BOLT
250	5413575AYP	2	PLATE, BRAKE ARM
260	84003641	2	PIN, CLEVIS
270	5025203X6SM	2	PIN - COTTER
280	704214	2	BOLT, 1/4-20 X 1.5
290	5025126FS	4	NUT
300	5041483YP	2	SPACER
310	5025095SM	2	NUT, 1/4-20 HEX NYLON
320	5025010X6SM	2	BOLT, 1/4-20 X 3/4" G
330	703332	2	WASHER
340	5415932AYP	1	TAB

Rear Bumper and ROPS Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078



Rear Bumper and ROPS Group

REF NO	PART NO	QTY	DESCRIPTION
0010	-----	1	USE 5109537B - WELD, BUMPER -(S/N: 4001662490 & Below)(Refer to Note: ***)
0010	84008679	1	BUMPER, Rear -(S/N: 4001662491 & Above)
0020	-----	1	USE 84011143 - PLATE, HEAT SHIELD -(S/N: 4001662490 & Below)(Refer to Note: ***)
0020	84011143	1	SHIELD, Heat -(S/N: 4001662491 & Above)(Refer to Note: **)
0030	5108377BFS	1	PLATE, GUARD
0050	703115	8	NUT
0060	5025011X8FS	8	BOLT
0070	703350	8	WASHER
0080	5025017X10YP	4	BOLT, 1/2-13 X 1-1/4
0090	5025158SM	4	WASHER, 1/2" SAE
0100	770225	4	NUT
0110	-----	1	ROLL BAR -(Refer to Note: *)
0110-01	84013063	1	KIT, Hardware (Roll Bar) -(Includes items #0110-10 to 0110-60)
0110-10	-----	4	BOLT, 1/2-13 X 3" GD5 CZ
0110-20	-----	4	WASHER, 1/2 SAE
0110-30	-----	2	NUT, 1/2-13 Hex Side Lock
0110-40	-----	2	BLOCK, ROPS
0110-50	-----	2	HINGE PIN ASSEMBLY
0110-60	-----	2	NUT, 1/2-13 Hex Side Lock
0120	5023484SM	6	PLUG, PANEL, 1.25 - B

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.

Note: **New heat shield is installed on the outside of the

Note: ***For Kawasaki EFI models you must replace both the

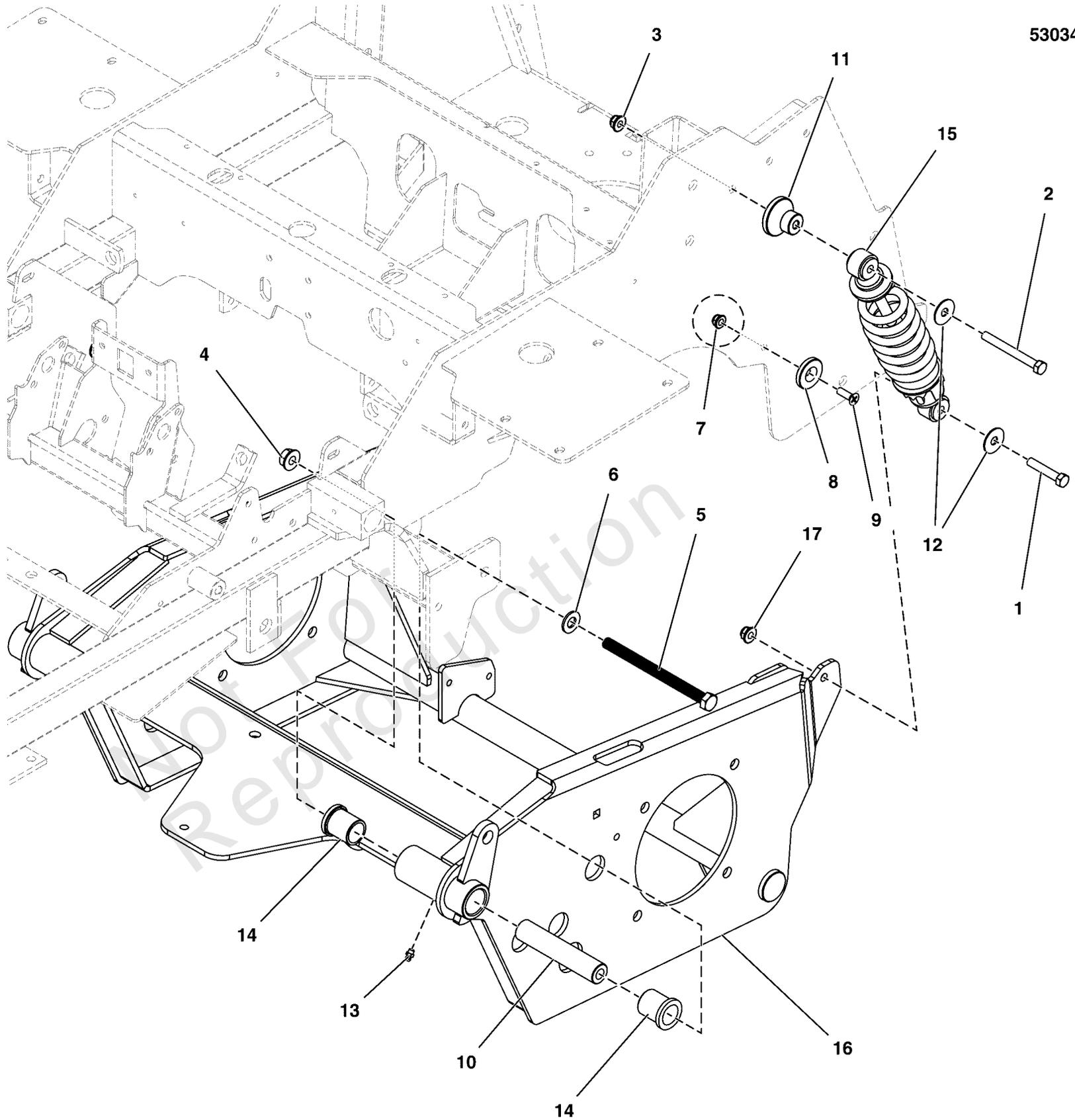
Note: ***For Kawasaki EFI models

Rear Suspension Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

5303403A



Rear Suspension Group

REF NO	PART NO	QTY	DESCRIPTION
1	80003522	2	HHCS, 3/8-16 X 2.00, GR5, ZINC/CLEAR
2	5025013X28	2	BOLT, 3/8-16 X 3-1/2" GD5 CZ
3	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
4	5025396	2	NUT, Hex Flange, Nylock, 1/2-13
5	5025488X52	2	BOLT, 1/2-13 X 6-1/2 GD8, YZ
6	5025158	2	WASHER, 1/2 SAE
7	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE
8	5102701	2	SPACER, .34 X 1.54 X .25, PL
9	5025594	2	SCREW, 5/16-18X1, PHILLIPS HD. BZ
10	5100194	2	SPACER, .52 X 1.00 X 5.00
11	5104704	2	SPACER, .39 X 2.00 X 1.35, PM
12	5025165	4	WASHER-3/8 FENDER
13	5020095	2	GREASE FITTING, 1/4-28 STRAIGHT
14	5021541	4	BUSHING, FLANGE
15	5104060	2	SHOCK / SPRING ASSEMBLY, OE22376
16	84007760	1	CRADLE, Suspension
17	5025394	2	NUT, 3/8 - 16 HEX NYLOCK FLANGE

Seat Mount and Floor Group S/N: 4002328396 and below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

Seat (P/N 5108194) Service Parts:

0070-10 - Lumbar/Recline Lever

0070-15 - Track Kit, Seat

0070-20 - Set of Arm Kits

0070-25 - Set of Arm Pads

0070-30 - Weight Adjust/Indicator Knob

0070-35 - Bellows w/ Hardware Base

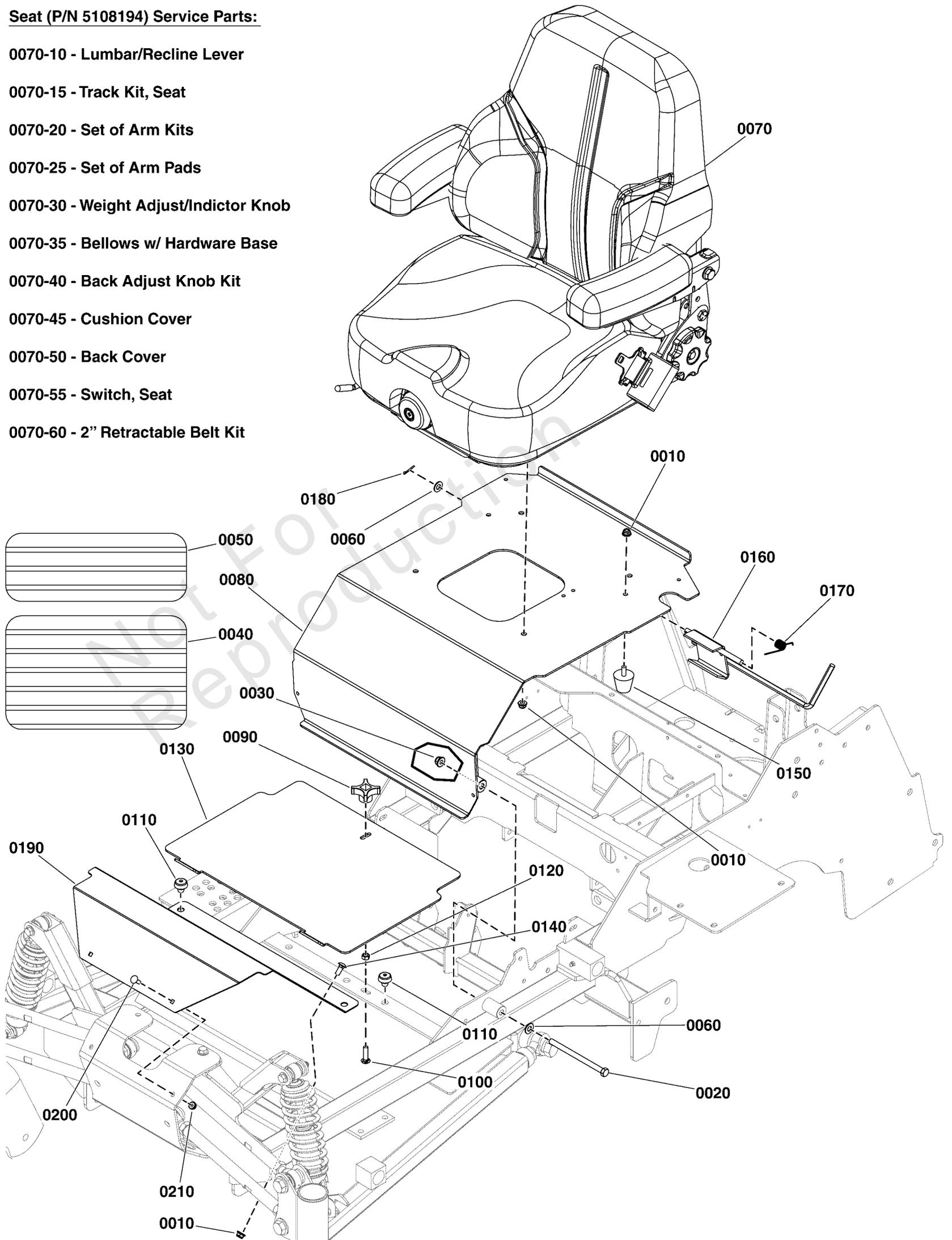
0070-40 - Back Adjust Knob Kit

0070-45 - Cushion Cover

0070-50 - Back Cover

0070-55 - Switch, Seat

0070-60 - 2" Retractable Belt Kit



Seat Mount and Floor Group S/N: 4002328396 and below

REF NO	PART NO	QTY	DESCRIPTION
0010	5025392	8	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0020	5025013X44	2	BOLT, 3/8-16 X 5-1/2" GD5 CZ
0030	5025394	2	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0040	5101333	1	SAFETY WALK, FLOOR PLATE, S50X, 10X17.13
0050	5101374	1	SAFETY WALK, FLOOR REST, 16.00 X 6.00
0060	5025156	3	WASHER, 3/8 SAE
0070	5108194	1	SEAT, HIGH BACK,SUSP,SWITCH & SEAT BELTS
0070-10	5105099X2	1	LUMBAR/RECLINE/ISO LVR W/ RLL PIN BS -(SV)
0070-15	5104720X1	1	4" SINGLE LOCKING TRACKS BASE -(SV)
0070-20	5106325X2	1	SET OF ARM KITS -(SV)
0070-25	5106325X3	1	SET OF ARM PADS -(SV)
0070-30	5104720X2	1	WEIGHT ADJUST INDICATOR KNOB ASSY BASE -(SV)
0070-35	5104720X3	1	BELLOWS W/ HARDWARE BASE -(SV)
0070-40	5106325X4	1	BACK ADJUSTMENT KNOB KIT -(SV)
0070-45	5108194X1	1	CUSHION COVER -(SV)
0070-50	5108194X2	1	SEAT BACK COVER -(SV)
0070-55	7023354	1	SWITCH, SEAT -(SV)
0070-60	5106325X5	1	2" RETRACTABLE BELT KIT -(SV)
0080	5601210	1	SEAT PLATE W/ DECALS, IS2100Z, ST LTCH -(USA Models)
0080	5601212	1	SEAT PLATE W/ DECALS, 2100, ST LTCH, CE -(Export Models)
0090	1670578	1	KNOB-INT THR .312-18 4-ARM 2.12WD 1.06LG
0100	5025145X10	1	BOLT, 5/16-18 X 1-1/4, CARRIAGE, GD5, CZ
0110	197546	6	MNT, VBRTN, RBBR
0120	80003675	1	NUT, 5/16-1/8, HEX, CNTR LK, ZINC PHOS/OIL
0130	5410296B	1	PLATE, FLOOR, REMOVABLE, IS700 - RED
0140	5025145X6	2	BOLT, 5/16-18 X 3/4, CARRIAGE, GD5, CZ
0150	5106763	2	BUMPER, RUBBER, 5/16-18, 60 DURO
0160	5418223A	1	WELD, SEAT LATCH HOOK - BLACK
0170	5106644	1	SPRING, TORSION, LH, .0625OD
0180	80002736	1	PIN, 3/32 X 0.750, COT, ZINC/CLEAR
0190	5419452B	1	PLATE, FRONT FLOOR, ISX2000 - RED
0200	1960252	2	BOLT-RD HD SH SQ NK 1/4-20X0.625 G5 BLK
0210	5025391	2	NUT, 1/4-20 Hex Nylock Flange

Seat Mount and Floor Group S/N: 4002328397 to 4002411631

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

Seat Service Parts:

0070-10 - Lumbar/Recline Lever

0070-15 - Track Kit, Seat

0070-20 - Arm Pad

0070-25 - Set of Arm Rests

0070-30 - Weight Adjust/Indicator Knob

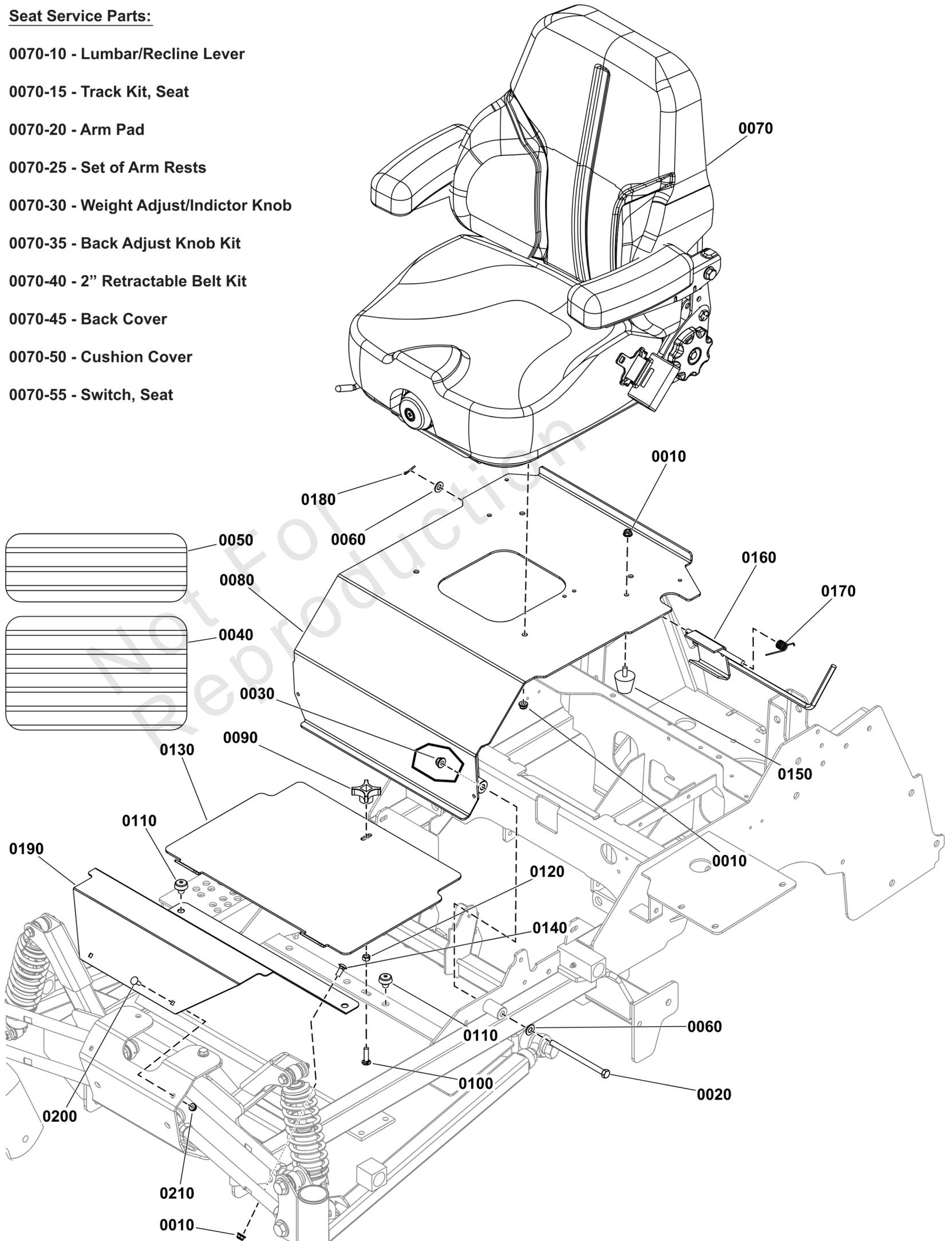
0070-35 - Back Adjust Knob Kit

0070-40 - 2" Retractable Belt Kit

0070-45 - Back Cover

0070-50 - Cushion Cover

0070-55 - Switch, Seat



Seat Mount and Floor Group S/N: 4002328397 to 4002411631

REF NO	PART NO	QTY	DESCRIPTION
0010	703115	8	NUT
0020	5025013X44SM	2	BOLT, 3/8-16 X 5-1/2"
0030	5025394SM	2	NUT, 3/8-16 HEX NYLOCK
0040	5101333YP	1	SAFETY WALK, FLOOR PL
0050	5101374YP	1	SAFETY WALK, FLOOR RE
0060	5025156FS	3	WASHER
0070	84010952	1	SEAT ASSEMBLY
0070-10	84003205	1	LUMBAR/RECLINE/ISO LVR W/ RLL PIN BS -(SV)
0070-15	84011185	1	TRACKS, Seat Adjustment -(SV)
0070-20	5104741X2	1	ARM PAD -(SV)
0070-25	5102760X3YP	1	ARM REST, COMPANION -(SV)
0070-30	84003209	1	KNOB, Adjuster -(SV)
0070-35	84009805	1	KNOB, ADJUSTER -(SV)
0070-40	84003214	1	BELT, Seat -(SV)
0070-45	84011186	1	COVER, Seat Back -(SV)
0070-50	84011187	1	CUSHION, Seat -(SV)
0070-55	7023354YP	1	SWITCH, SEAT -(SV)
0080	5601210	1	SEAT PLATE W/ DECALS, IS2100Z, ST LTCH -(USA Models)
0080	5601212	1	SEAT PLATE W/ DECALS, 2100, ST LTCH, CE -(Export Models)
0090	1670578SM	1	KNOB-INT THR .312-18
0100	5025145X10YP	1	BOLT, 5/16-18 X 1-1/4
0110	197546GS	6	MOUNT-VIBRATION
0120	703164	1	NUT
0130	5410296BFS	1	PLATE, FLOOR
0140	5025145X6SM	2	BOLT, 5/16-18 X 3/4",
0150	84003201	2	SUPPORT, RUBBER
0160	84002142	1	WELD, SEAT LATCH HOOK - BLK
0170	84003202	1	SPRING, TORSION
0180	703312	1	PIN, COTTER, 3/32X.75
0190	5419452BFS	1	PLATE, FLOOR
0200	1960252SM	2	BOLT-RD HD SH SQ NK 1
0210	5025391FS	2	NUT

Seat Mount and Floor Group S/N: 4002411632 and Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

Seat Service Parts:

0070-10 - Lumbar/Recline Lever

0070-15 - Track Kit, Seat

0070-20 - Arm Pad

0070-25 - Set of Arm Rests

0070-30 - Weight Adjust/Indicator Knob

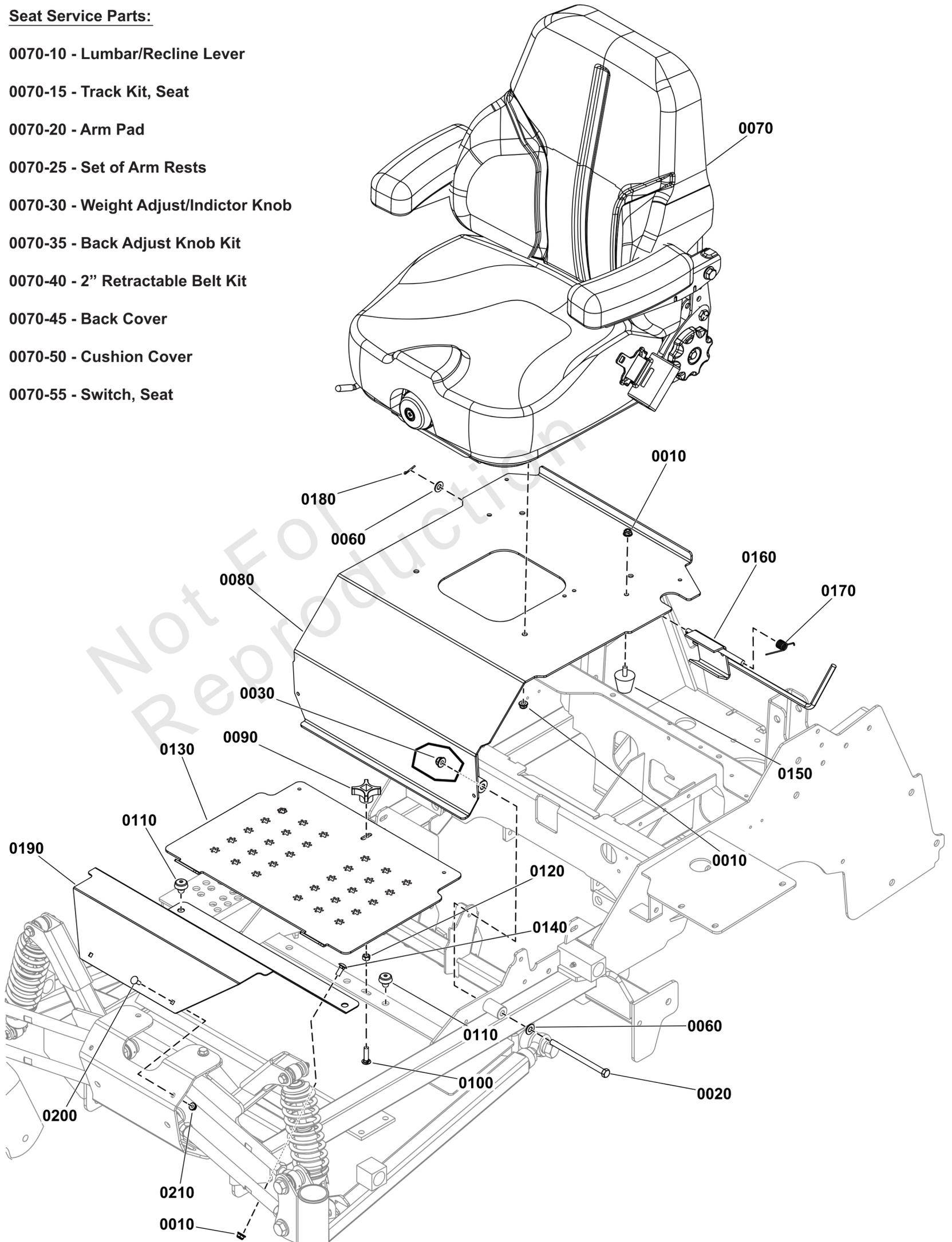
0070-35 - Back Adjust Knob Kit

0070-40 - 2" Retractable Belt Kit

0070-45 - Back Cover

0070-50 - Cushion Cover

0070-55 - Switch, Seat



Seat Mount and Floor Group S/N: 4002411632 and Above

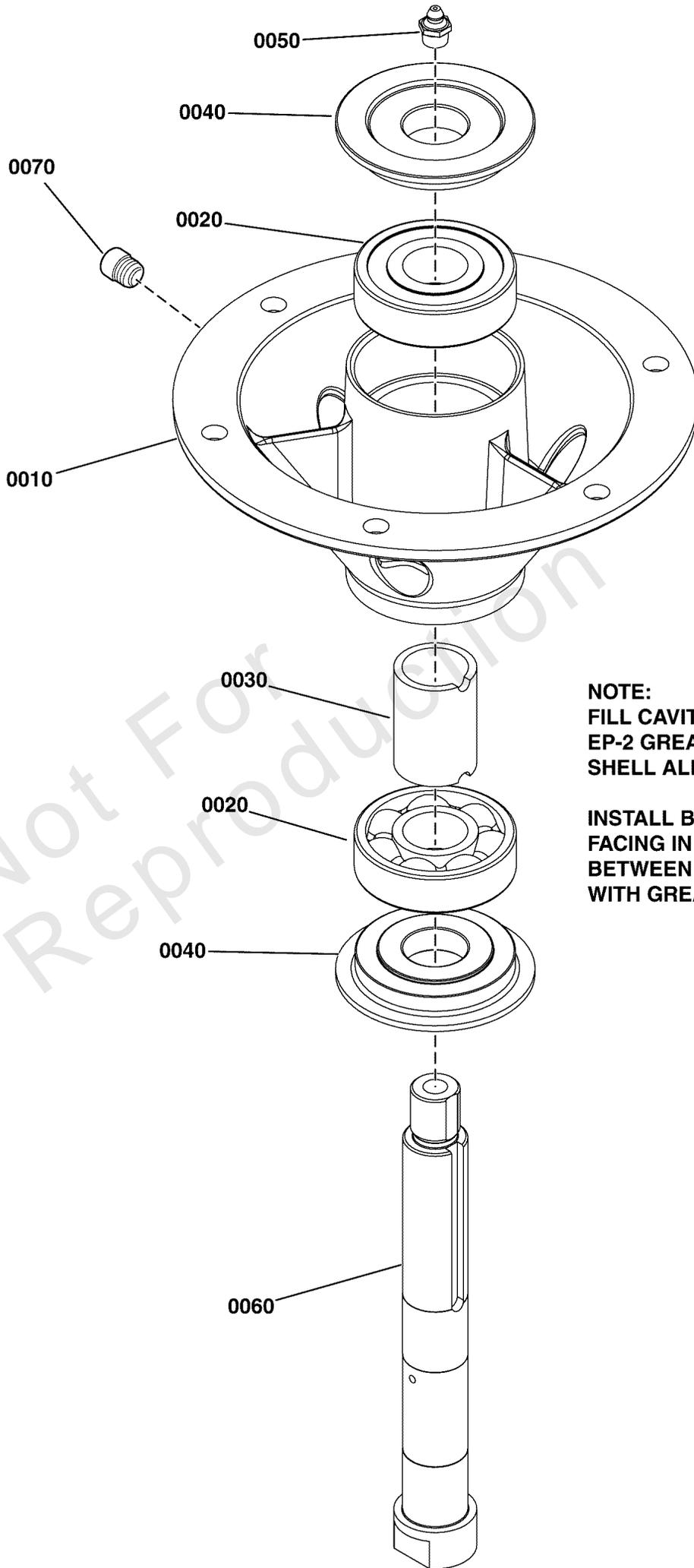
REF NO	PART NO	QTY	DESCRIPTION
0010	703115	8	NUT
0020	5025013X44SM	2	BOLT, 3/8-16 X 5-1/2"
0030	5025394SM	2	NUT, 3/8-16 HEX NYLOCK
0060	5025156FS	3	WASHER
0070	84010952	1	SEAT ASSEMBLY
0070-10	84003205	1	LUMBAR/RECLINE/ISO LVR W/ RLL PIN BS -(SV)
0070-15	84011185	1	TRACKS, Seat Adjustment -(SV)
0070-20	5104741X2	1	ARM PAD -(SV)
0070-25	5102760X3YP	1	ARM REST, COMPANION -(SV)
0070-30	84003209	1	KNOB, Adjuster -(SV)
0070-35	84009805	1	KNOB, ADJUSTER -(SV)
0070-40	84003214	1	BELT, Seat -(SV)
0070-45	84011186	1	COVER, Seat Back -(SV)
0070-50	84011187	1	CUSHION, Seat -(SV)
0070-55	7023354YP	1	SWITCH, SEAT -(SV)
0080	5601210	1	SEAT PLATE W/ DECALS, IS2100Z, ST LTCH -(USA Models)
0080	5601212	1	SEAT PLATE W/ DECALS, 2100, ST LTCH, CE -(Export Models)
0090	1670578SM	1	KNOB-INT THR .312-18
0100	5025145X10YP	1	BOLT, 5/16-18 X 1-1/4
0110	197546GS	6	MOUNT-VIBRATION
0120	703164	1	NUT
0130	84012846	1	PLATE, Floor, Removable
0140	5025145X6SM	2	BOLT, 5/16-18 X 3/4",
0150	84003201	2	SUPPORT, RUBBER
0160	84002142	1	WELD, SEAT LATCH HOOK - BLK
0170	84003202	1	SPRING, TORSION
0180	703312	1	PIN, COTTER, 3/32X.75
0190	84012845	1	PLATE, Floor, Fixed
0200	1960252SM	2	BOLT-RD HD SH SQ NK 1
0210	5025391FS	2	NUT

Spindle Service Parts - 5104744

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

5104744



NOTE:
FILL CAVITY WITH NLGI, GRADE 2,
EP-2 GREASE (SUPERPLEX EP-2,
SHELL ALBIDA LCW, BP ENERGREASE LC)

**INSTALL BEARINGS WITH OPEN SIDE
FACING IN TOWARDS SPACER. FILL AREA
BETWEEN BEARING AND TRASH SHIELD
WITH GREASE DURING ASSEMBLY.**

Spindle Service Parts - 5104744

REF NO	PART NO	QTY	DESCRIPTION
0010	-----	1	NLA - SPINDLE HOUSING -(Refer to Note: *)
0020	5023330	2	BEARING, .98 X 2.44 X .67
0030	5061099	1	SPACER, 1.00 X 1.25 X 1.75
0040	5049793	2	TRASH SHIELD
0050	5023329	1	FITTING, 1/8 NPT STR, SHORT
0060	5061100	1	SHAFT, SPINDLE
0070	5023296	1	FITTING, RELIEF, 1-5 PSI

Not For
Reproduction

Footnotes:

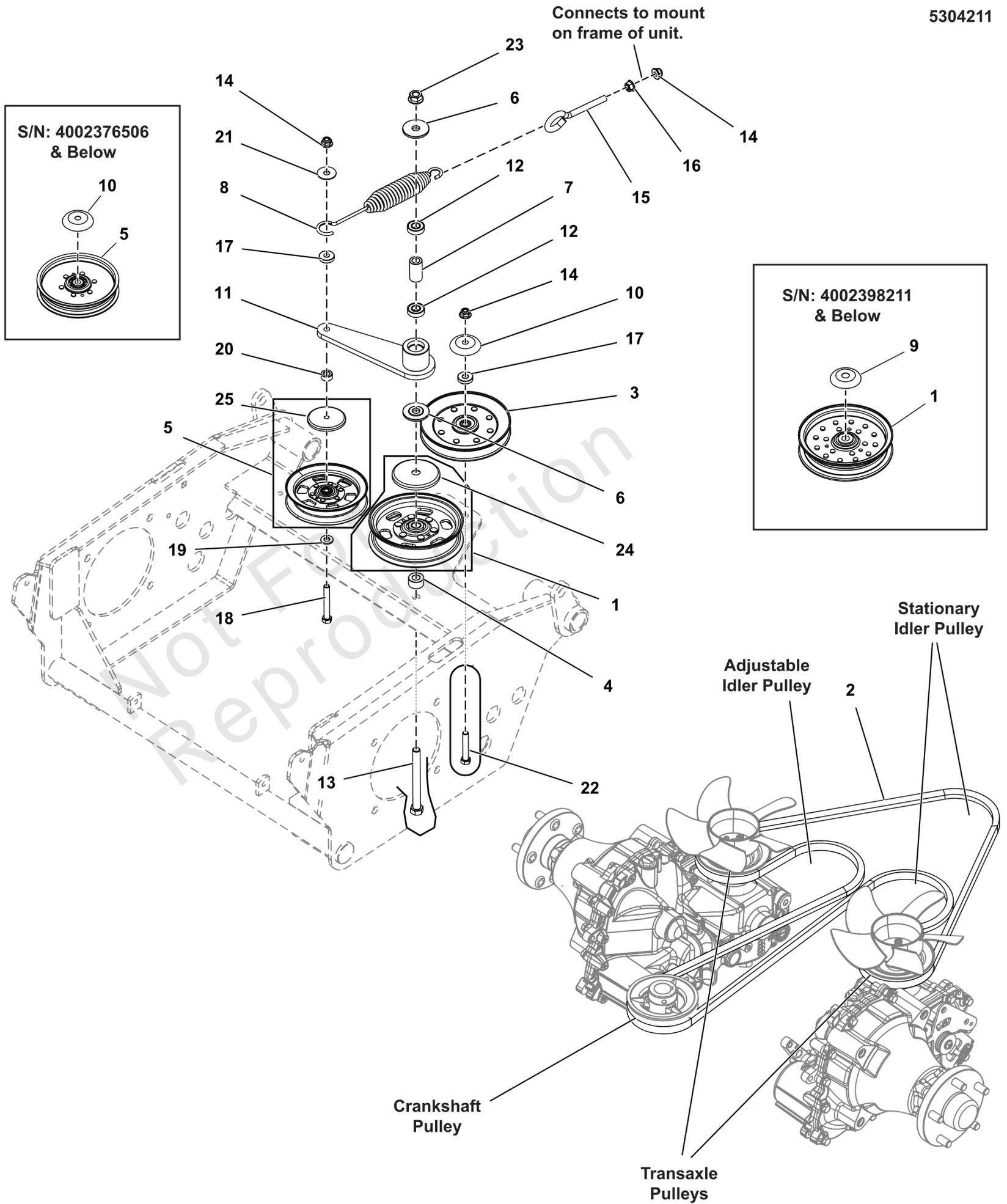
Note: *This is no longer available. If the spindle housing needs to be replaced order a complete new spindle assembly.

Transaxle Drive Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078

5304211



Transaxle Drive Group

REF NO	PART NO	QTY	DESCRIPTION
1	5101794YP	1	PULLEY, IDLER, 5" OD -(S/N: 4002376506 and below)
1	84012672	1	PULLEY w/Shield -(S/N: 4002376506 and above)
2	5103907YP	1	BELT, B-SEC, 123"EL
3	5102093YP	1	PULLEY-IDLER-V
4	5101162YP	1	SPACER
5	5103789YP	1	PULLEY, C-SEC,V-IDLER -(S/N: 4002398211 and below)
5	84012665	1	PULLEY w/ Shield -(S/N: 4002398212 and above)
6	5103262YP	2	SPACER, IDLER ARM
7	5103812YP	1	SPACER, .52 X .84 X 1
8	5100632YP	1	SPRING, EXTENSION -(Coil-to-coil measurement: 6-3/4")
9	5101103SM	1	SHIELD, PULLEY -(S/N: 4002376506 and below)
10	5103787YP	1	SHIELD, BRNG PULLEY -(Qty: 2 - S/N: 4002376506 and below)
11	5412787AYP	1	ARM, PUMP DRIVE IDLER
12	7078243YP	2	BEARING, BALL, AXLE
13	5025017X40SM	1	BOLT, 1/2-13 X 5" GD5
14	5025394SM	3	NUT, 3/8-16 HEX NYLOCK
15	5023497SM	1	EYE BOLT, 3/8-16 X 5"
16	5025128SM	1	NUT, 3/8-16 HEX SERRA
17	5044960SM	2	SPACER, .39 X 1.00 X
18	5025013X22SM	1	BOLT, 3/8-16 X 2-3/4"
19	5025293SM	1	WASHER, 3/8"
20	5046860SM	1	SPACER
21	5025165SM	1	WASHER, 3/8" FENDER
22	5025013X18SM	1	BOLT, 3/8-16 X 2-1/4"
23	770225	1	NUT
24	5105145YP	1	SHIELD -(S/N: 4002376506 and above)
25	5105146YP	1	SHIELD -(S/N: 4002398212 and above)

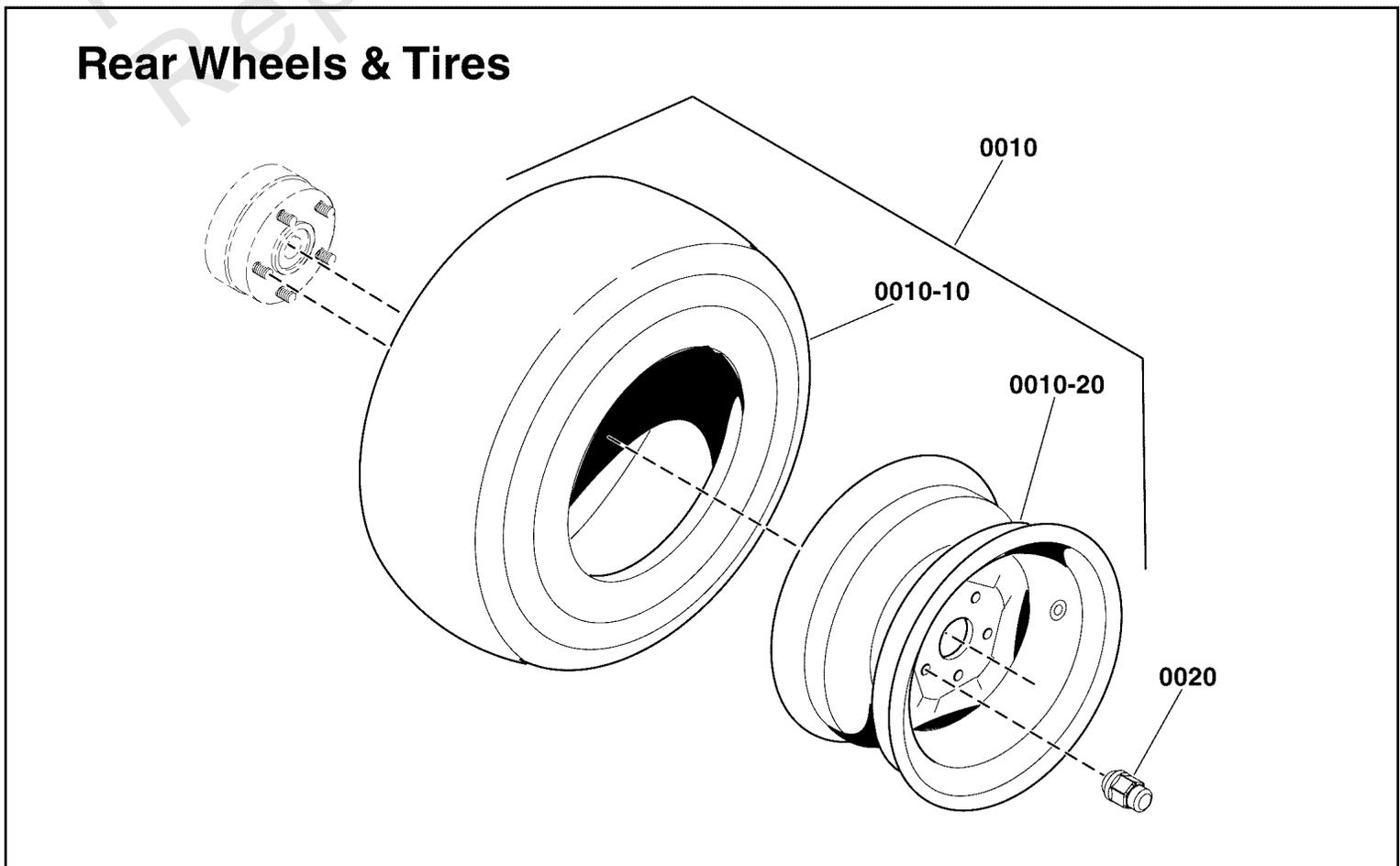
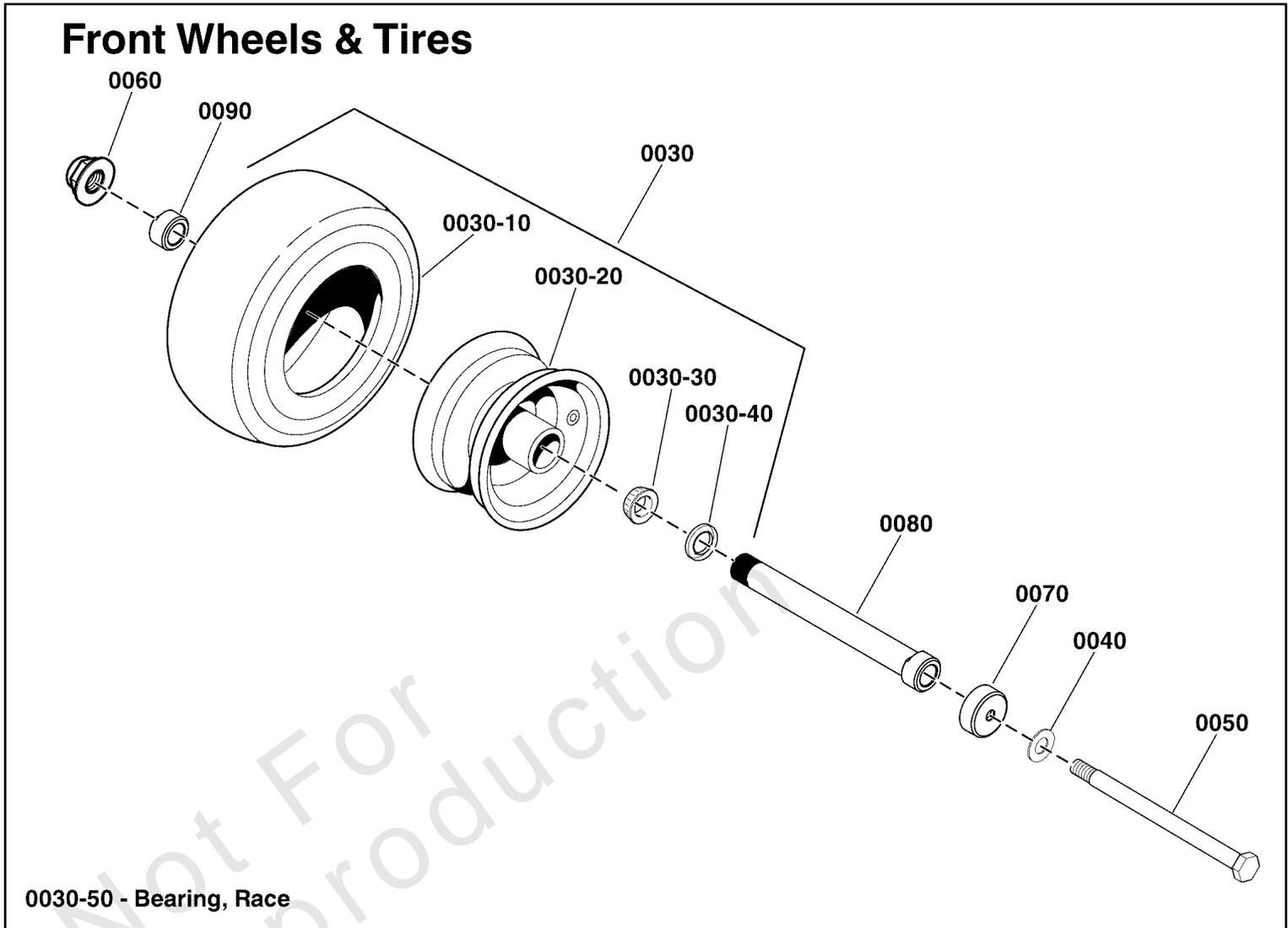
Transaxle SERVICE PARTS - ZT4400

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, HG# 55526 -(52989)
167	5104385X5	1	KIT, AXLE SEAL (SV) -(53008)
199	5109995	1	BRAKE SHAFT SEAL, 55523, ZT4400 & ZT5400 -(55523)
200	5104385X2	1	KIT, SEAL (SV) -(72523)

Wheel and Tire Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902078



Wheel and Tire Group

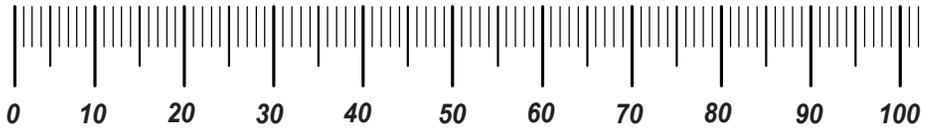
REF NO	PART NO	QTY	DESCRIPTION
0010	5109043	2	TIRE ASM, 24X12.00-12, TURF MASTER, BLK
0010-10	5023240X1	2	TIRE, 24 X 12 X 12 -(One per tire)
0010-20	-----	2	WHEEL RIM -(One per tire)
0020	-----	10	LUG NUT, Black -(Originally Black Lug nut - Replacement 5020601SM is silver in color).
0020	5020601SM	10	NUT, 1/2-20, FOR WHEEL BOLT SILVER -(Replacement 5020601SM is silver in color).
0030	5109035	2	TIRE ASM, 13 X 6.5 - 6, PNE / TB, BLK
0030-10	5022577	2	TIRE, RUBBER ONLY -(One per tire)
0030-20	-----	2	WHEEL RIM -(One per tire)
0030-30	5022631SX2	4	BEARING, Tapered Roller -(Two per tire)
0030-40	5022631SX3	4	SEAL, GREASE -(Two per tire)
0030-50	5022631SX4	2	BEARING, RACE -(One per tire)
0040	5025158	2	WASHER, 1/2 SAE
0050	5025017X72	2	BOLT, 1/2-13 X 9" GD5 YZ
0060	5025396	2	NUT, Hex Flange, Nylock, 1/2-13
0070	5108803	4	DUST CAP, CASTER TIRE, BLACK
0080	5103649	2	BEARING ADJUSTER, SPACER, 7.062 LG
0090	5103650	2	NUT, BEARING ADJUSTER, AXLE

Hardware Identification & Torque Specifications

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

Torque Specification Chart						
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)						
Hardware Grade	No Marks		SAE Grade 5		SAE Grade 8	
	SAE Grade 2		SAE Grade 5		SAE Grade 8	
Size Of Hardware	in/lbs	Nm.	in/lbs	Nm.	in/lbs	Nm.
	ft/lbs		ft/lbs		ft/lbs	
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

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

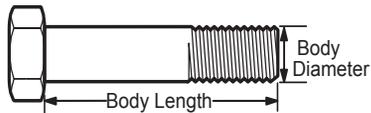


Nut, M8

Thread Diameter (mm)

Inside Diameter (in) Threads per inch

Nut, 1/2-16

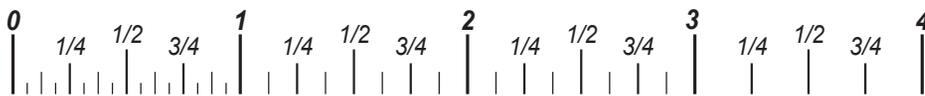


Screw, M8- 1.25 x 25

Thread Diameter (mm) Distance between threads (mm) Body Length (mm)

Body Diameter Threads per inch Body Length (in)

Screw, 1/2- 16 x 2



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).

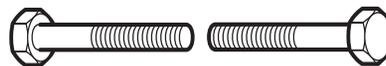
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

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

Hex Head Capscrew



Washer



Carriage Bolt



Hex Nut

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

