



Parts Manual

Mfg. No: 5902075

ISX800 Series w/ 60" iCD+ Mower Deck
(ISX800, 60, B27, NA)



5600031 - Kit, Trailer Hitch (IS600/IS700/IS2100/IS2600/IS5100/F160/F210).....	
5600891 - Roll Bar Mounted LED Headlight Kit.	
5601080 - Service Jack Kit.	
5601235 - Service Jack Mount Kit (7.25") 2200/3300.	
5107346 - SEAT, MID BACK, SWITCH, NO BELT.	
5108068 - Terra Trac Tire, 23 X 10.5 - 12.	
5601441 - Mulch Kit for ZTR with 60" iCD Deck.	
5601385 - Striping Kit, 60" iCD Deck.	
5601413 - 60" TURBO-Pro; 2 Bag Hard Top Grass Collection System (IS700).	

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Reproduction

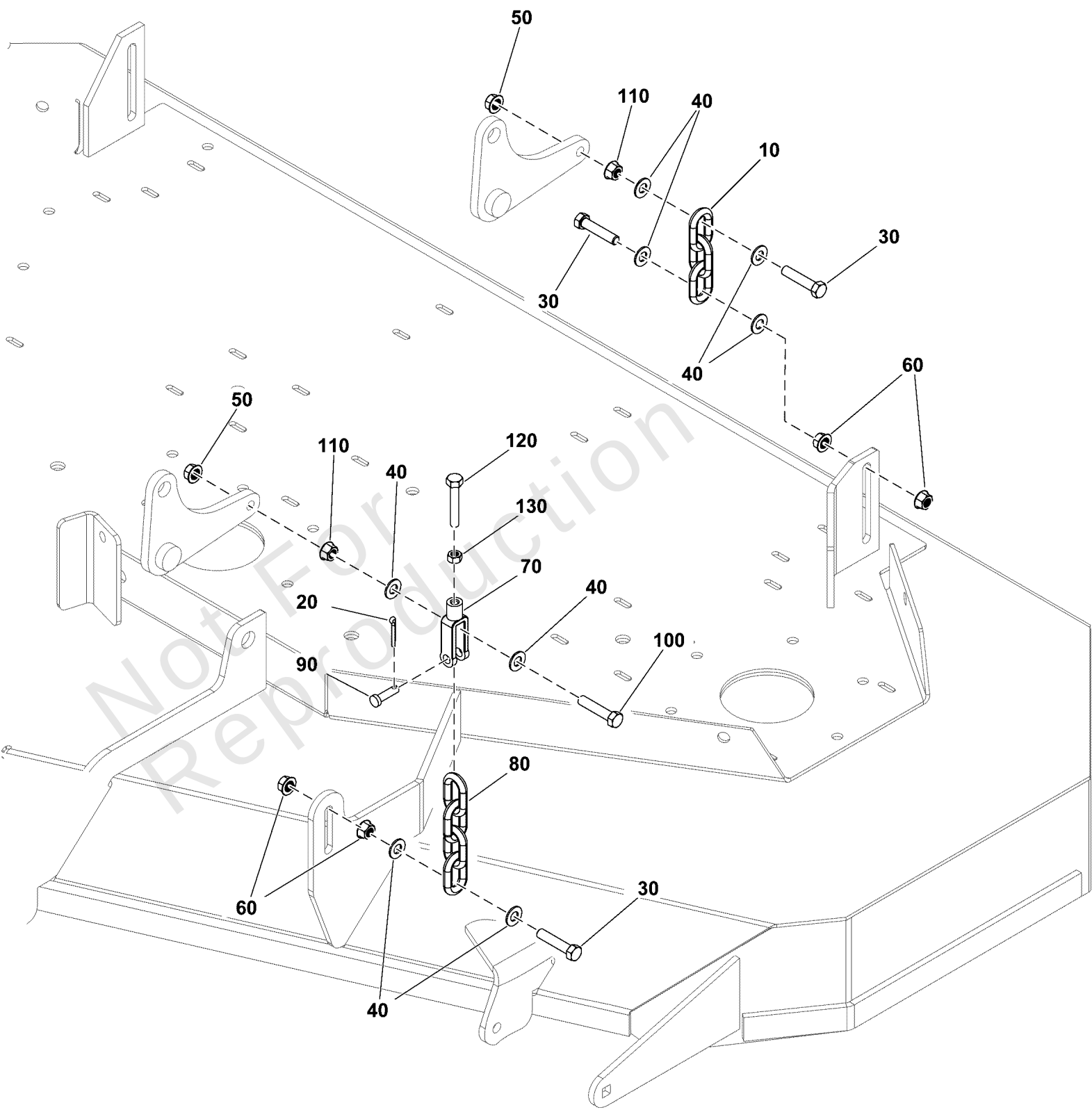
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60" iCD+ Mower Deck Group - Hanger Chains

Note: Unless noted otherwise, use the standard torque specifications

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Configuration for models with 60" mower decks.



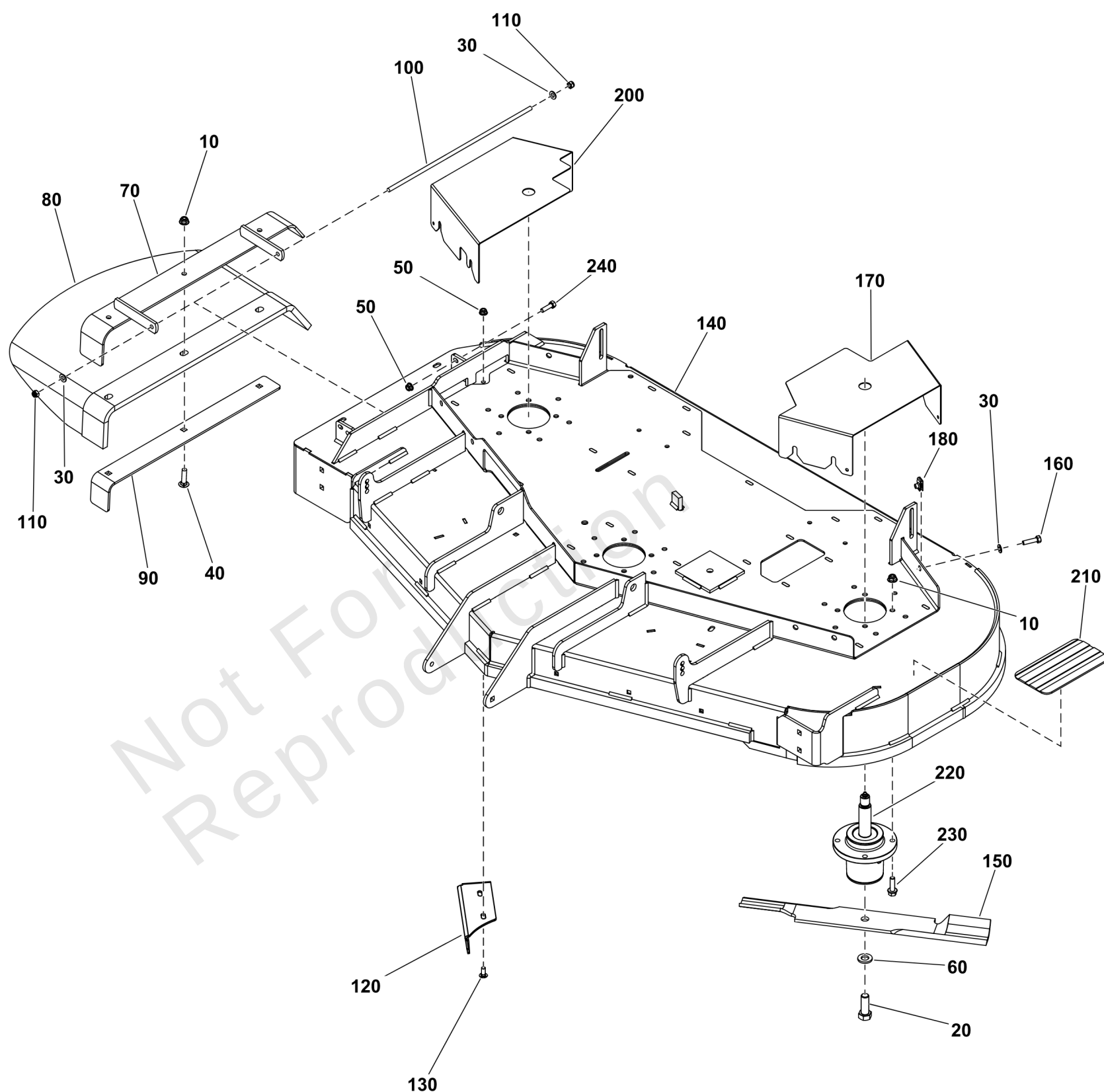
60" iCD+ Mower Deck Group - Hanger Chains

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

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

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075



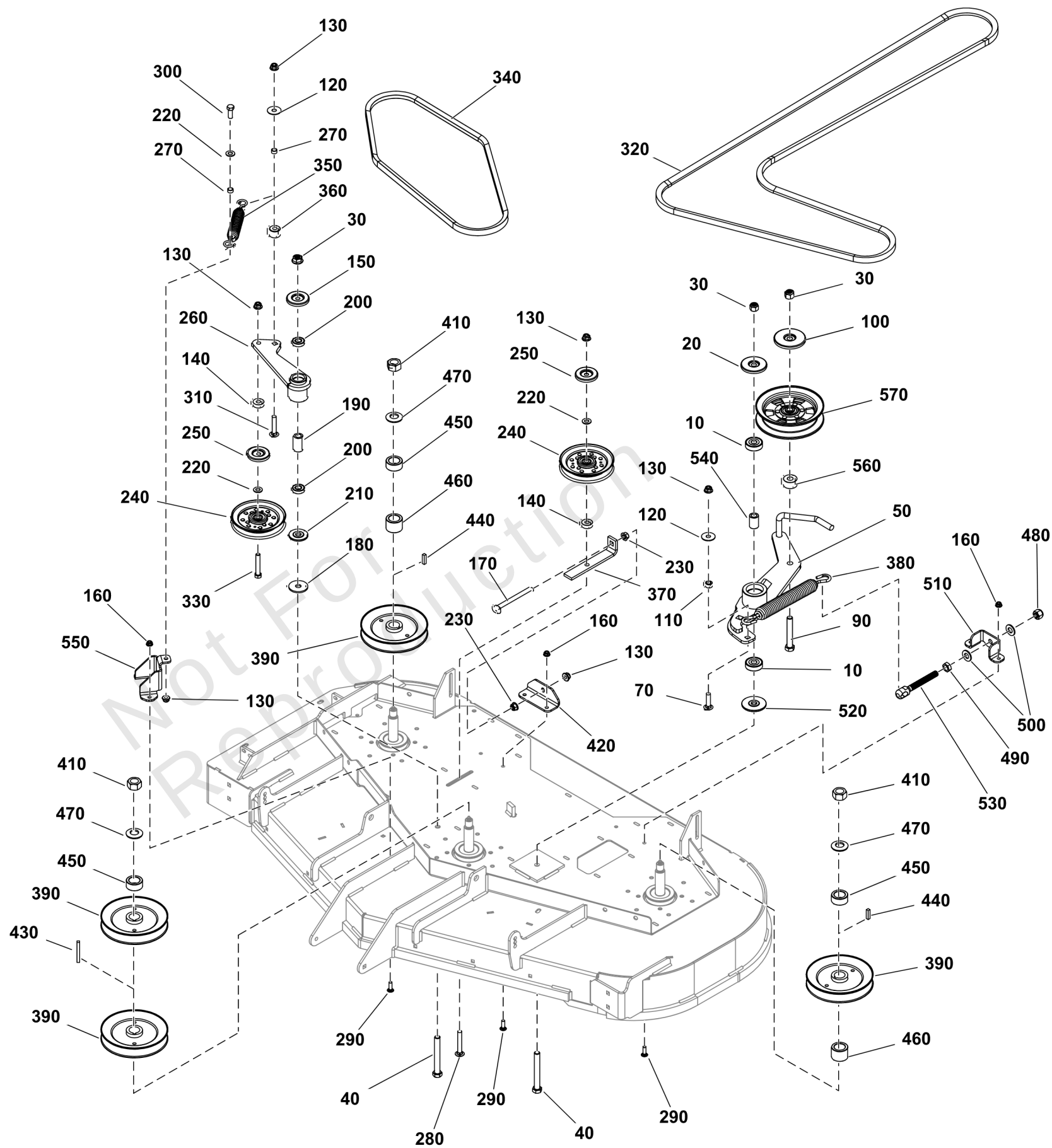
60" iCD+ Mower Deck Group - Housing, Covers, Spindles, and Blades

REF NO	PART NO	QTY	DESCRIPTION
10	5025394SM	15	NUT, 3/8-16 HEX NYLOCK
20	770136	3	BOLT
30	703350	8	WASHER
40	5025146X12YP	3	BOLT, 3/8-16 X 1-1/2
50	5025392FS	3	NUT
60	5025477SM	3	WASHER, 5/8" YZ
70	84007973	1	FRAME, Chute
80	84011105	1	CHUTE, Discharge
90	84003245	1	PLATE, SUPPORT
100	5061300FS	1	ROD
110	5025045SM	2	NUT, 5/16-24 HEX NYLO
120	84008169	1	DEFLECTOR
130	5025145X6SM	2	BOLT, 5/16-18 X 3/4",
140	84010923	1	DECK SHELL w/Decals -(ISX800 60" NA Models - Includes safety decals and safety walk.)
140	84010924	1	DECK SHELL w/Decals -(ISX800 60" AUS Models - Includes safety decals and safety walk.)
150	5101755S	1	BLADE SET, 61 DECK (3) -(Set of 3 blades)
160	5025011X8FS	6	BOLT
170	84007768	1	GUARD, LH
180	5022308SM	6	BODY CLIP, 5/16-18 X
200	84007769	1	GUARD, RH
210	5101004SM	1	SAFETY WALK
220	5061096SM	3	ASSM, SPINDLE, LONG S
230	5025390X10FS	12	BOLT
240	5025011X6SM	1	BOLT, 5/16-18 X 3/4"

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

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075



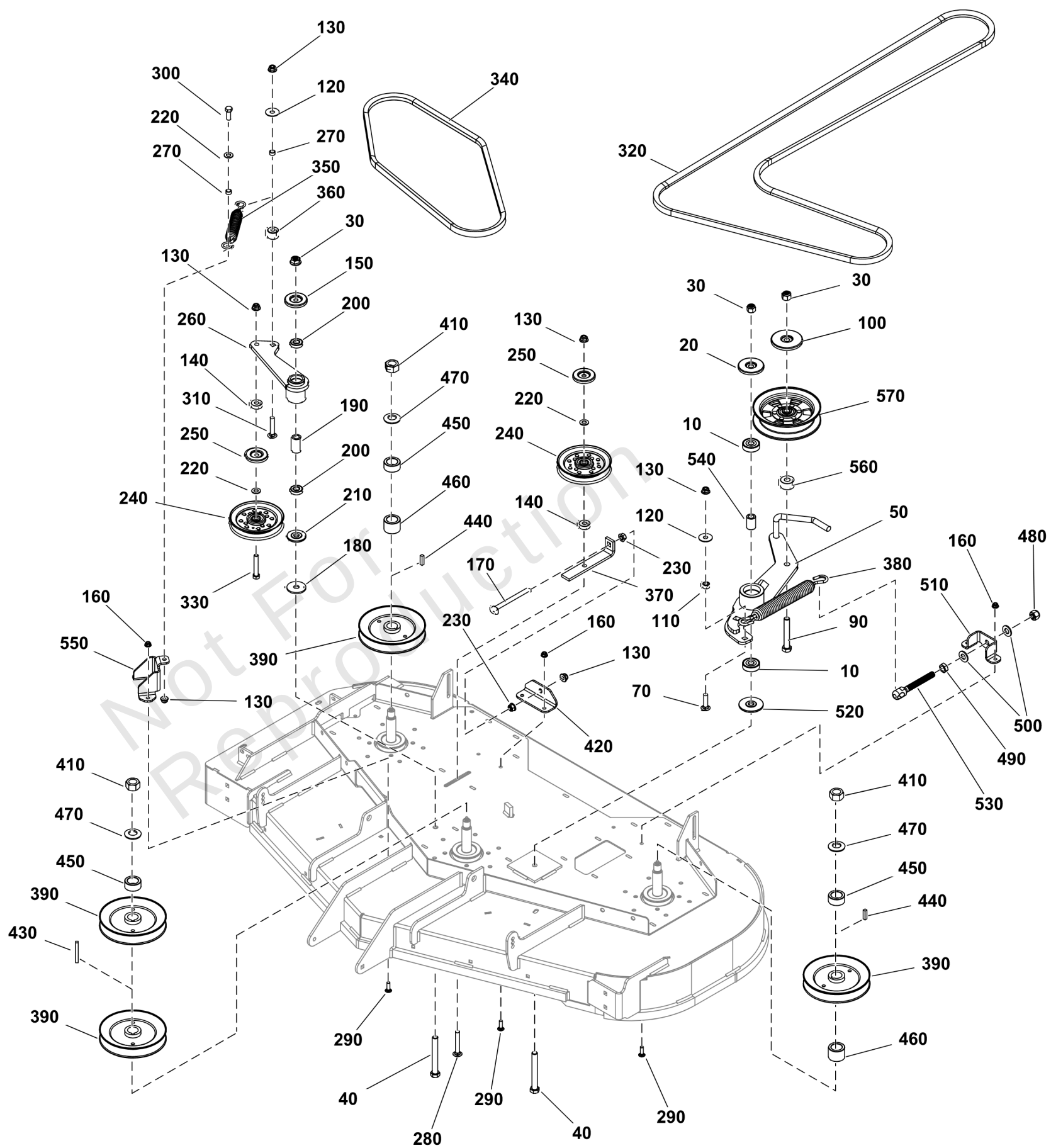
60" iCD+ Mower Deck Group - Pulleys, Belts, and Idler Arm

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

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075



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

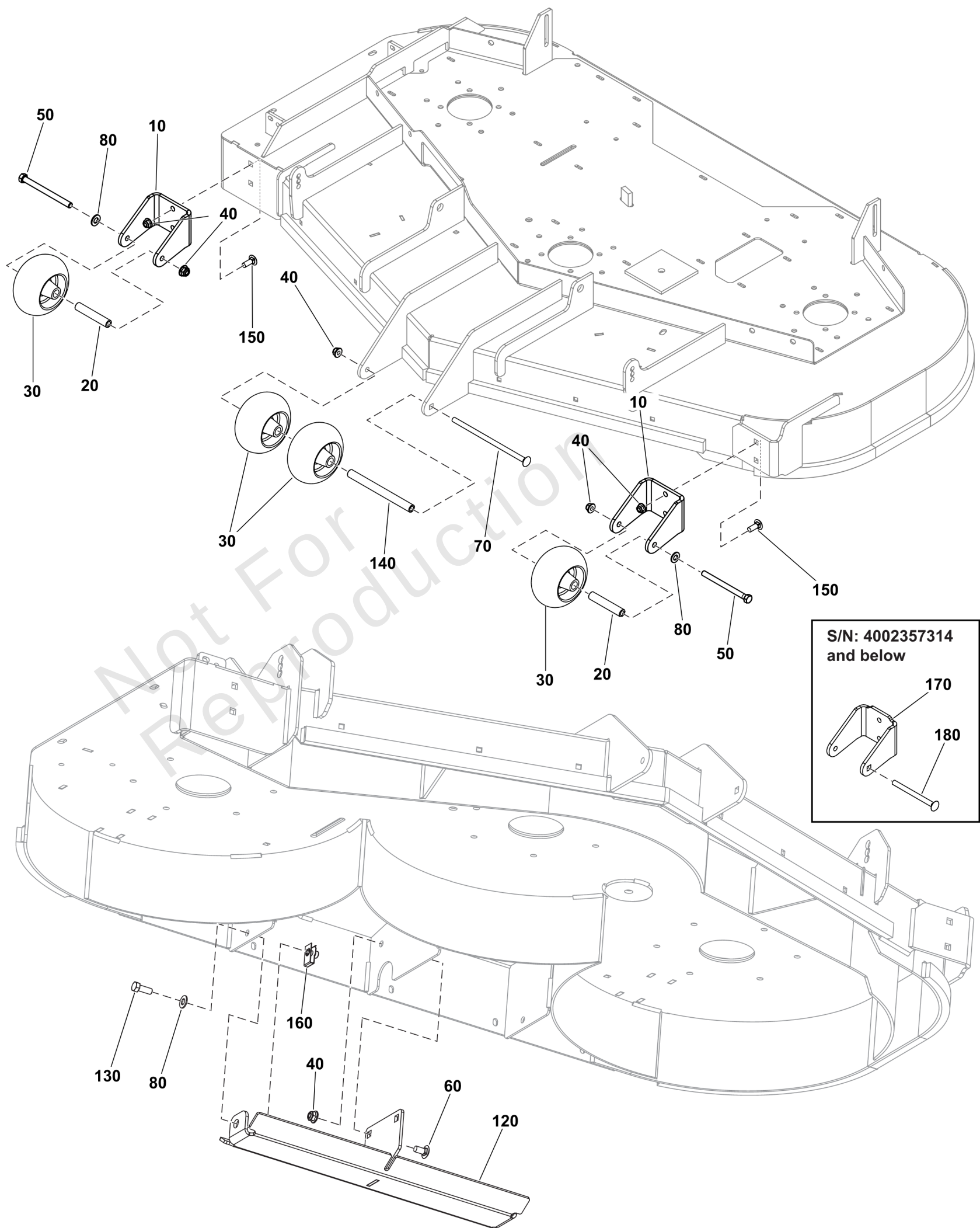
REF NO	PART NO	QTY	DESCRIPTION
550	84007963	1	PLATE, SPRING MOUNT - BLK
560	5045178SM	1	SPACER, .52 X 1.00 X
570	5104716YP	1	PULLEY, IDLER

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60" iCD+ Mower Deck Group - Rollers

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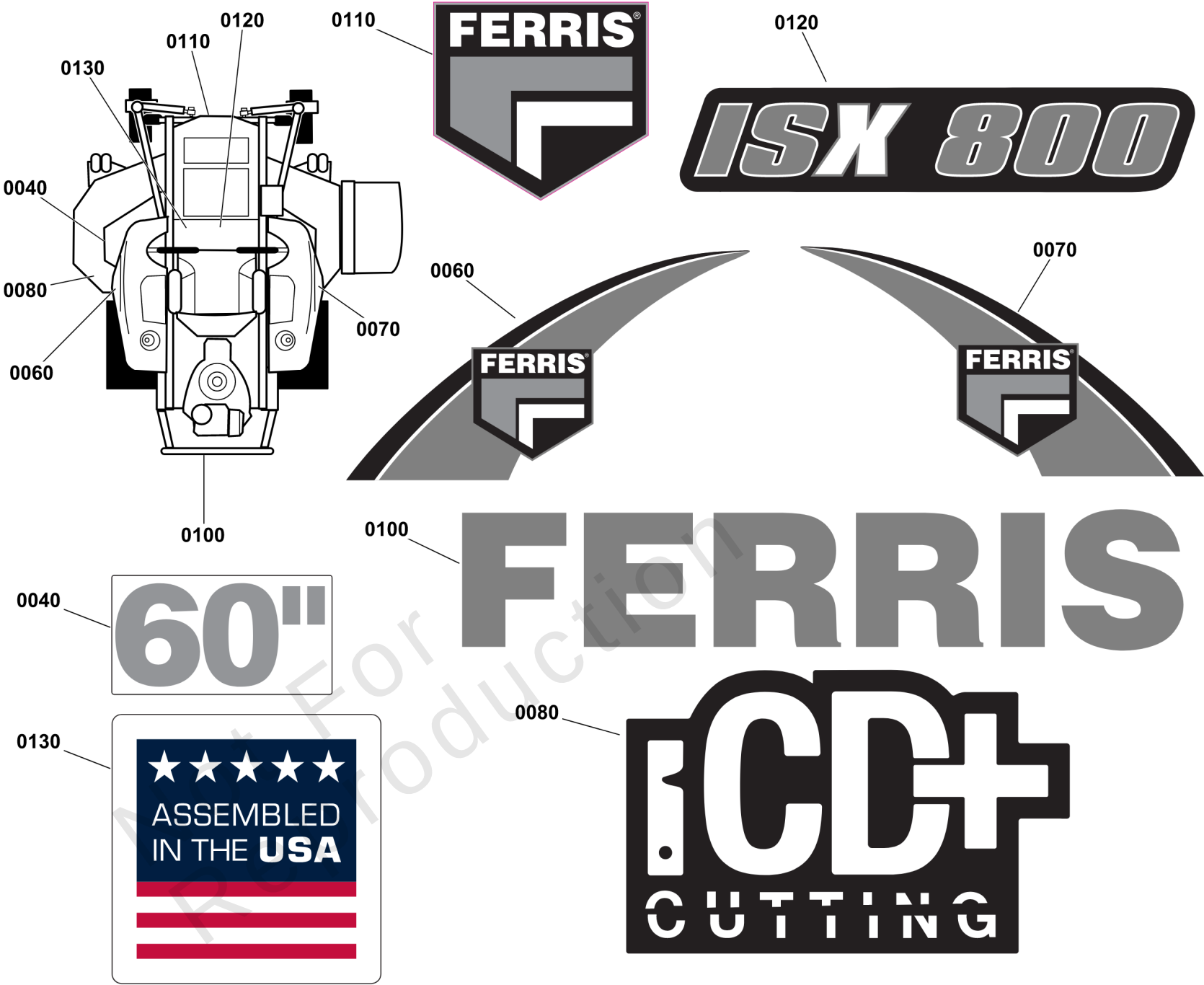


60" iCD+ Mower Deck Group - Rollers

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

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5902075



Decal Group - Brand and Model

REF NO	PART NO	QTY	DESCRIPTION
0040	84007767	1	DECAL, 60"
0060	5109091FS	1	DECAL, MODEL, LEFT HAND
0070	5109092FS	1	DECAL, MODEL, RIGHT HAND
0080	-----	1	DECAL, iCD+ CUTTING SYSTEM
0100	5103799FS	1	DECAL, BRAND
0110	5104756FS	1	DECAL, BRAND
0120	5106730FS	1	DECAL, MODEL
0130	-----	1	DECAL, ASSEMBLED IN THE USA

Decal Group - Safety and Operation

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5902075

1, 13, 11, 3, 6, 7, 9, 8, 15, 4, 12, 10, 2, 5, 13, 14

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. Wear eye and ear protection.
- 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. Yard debris is combustible.

- Allow engine to cool for at least 3 minutes before refueling.
- Keep unit cleaned of yard 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. Keep bystanders away.
- 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 and while backing.

Water, retaining walls, and drop-off hazards

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

- Do NOT operate down slopes towards or 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 rain).

WARNING

Amputation and Pinch Point Hazard

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

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

Avoid serious injury or death from rollover.

Do not operate without the rollbar installed and operational.

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.

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.

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.

HYDRAULIC OIL

USE SAE 20W-50 MOTOR OIL

Belts & Blades	
Tractor	
Pump Drive Belt	5103885YP
52" Mower	
Deck Drive Belt - Long LH	5105029FS
Deck Drive Belt - Short RH	84001675
Mower Blade (Set of 3)	5101756S
60" Mower	
Deck Drive Belt - Long LH	5104982YP
Deck Drive Belt - Short RH	5104780YP
Mower Blade (Set of 3)	5101755S

WARNING

PINCH POINT

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

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

Transaxle Release Lever Location

CAN ICES-2/NMB-2

1" = INCHES () = CM

+3/4" (1.9) +1/2" (1.3) +1/4" (0.6) 5" (12.7) 4" (10.2) 3" (7.6) 2" (5.1) 1-1/2" (3.8)

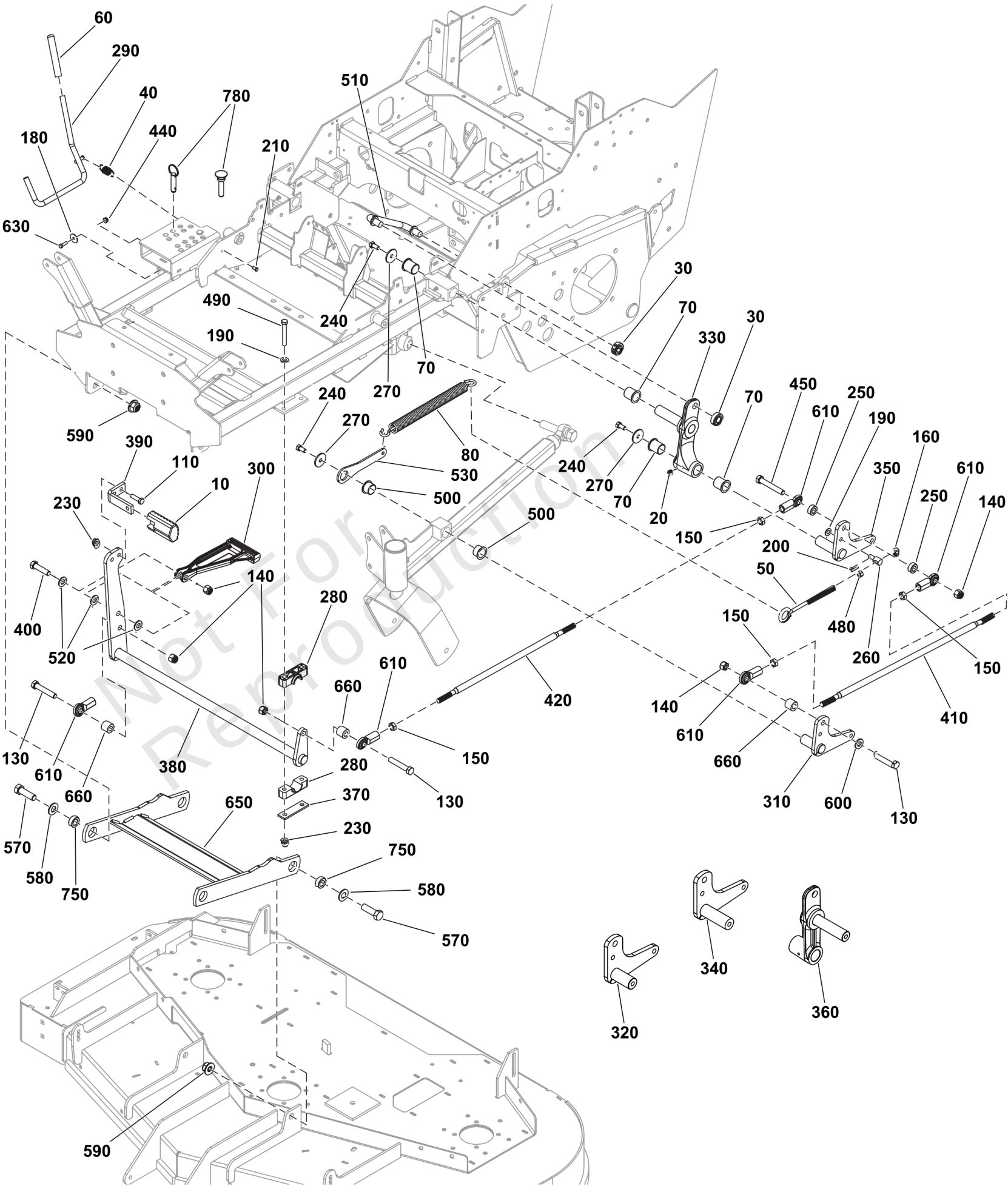
Decal Group - Safety and Operation

REF NO	PART NO	QTY	DESCRIPTION
1	84008252	1	DECAL, MAIN SAFETY
2	84008200	1	DECAL, Warning/Safety, Hand in Belt
3	84007896	2	DECAL, Danger, Cut Hand/Foot
4	84008155	1	DECAL, Transaxle Release
5	84008199	2	DECAL, Warning/Safety, Roll Bar
6	5048970SM	1	DECAL, Ignition Switch
7	84007897	1	DECAL, Throttle Control
8	5104082YP	1	DECAL, WARNING, ROPS
9	5100405YP	1	DECAL, WARNING, Overhead Obstacles
10	84002270	1	DECAL, Oil
11	84008213	1	DECAL, Cutting Height
12	84008284	1	DECAL, Belt & Blade
13	84008198	2	DECAL, Warning/Safety, Pinch Point
14	84007903	1	DECAL, Manual
15	5104083YP	1	DECAL, CAUTION, ROPS

Deck Lift Group

Note: Unless noted otherwise, use the standard torque specifications

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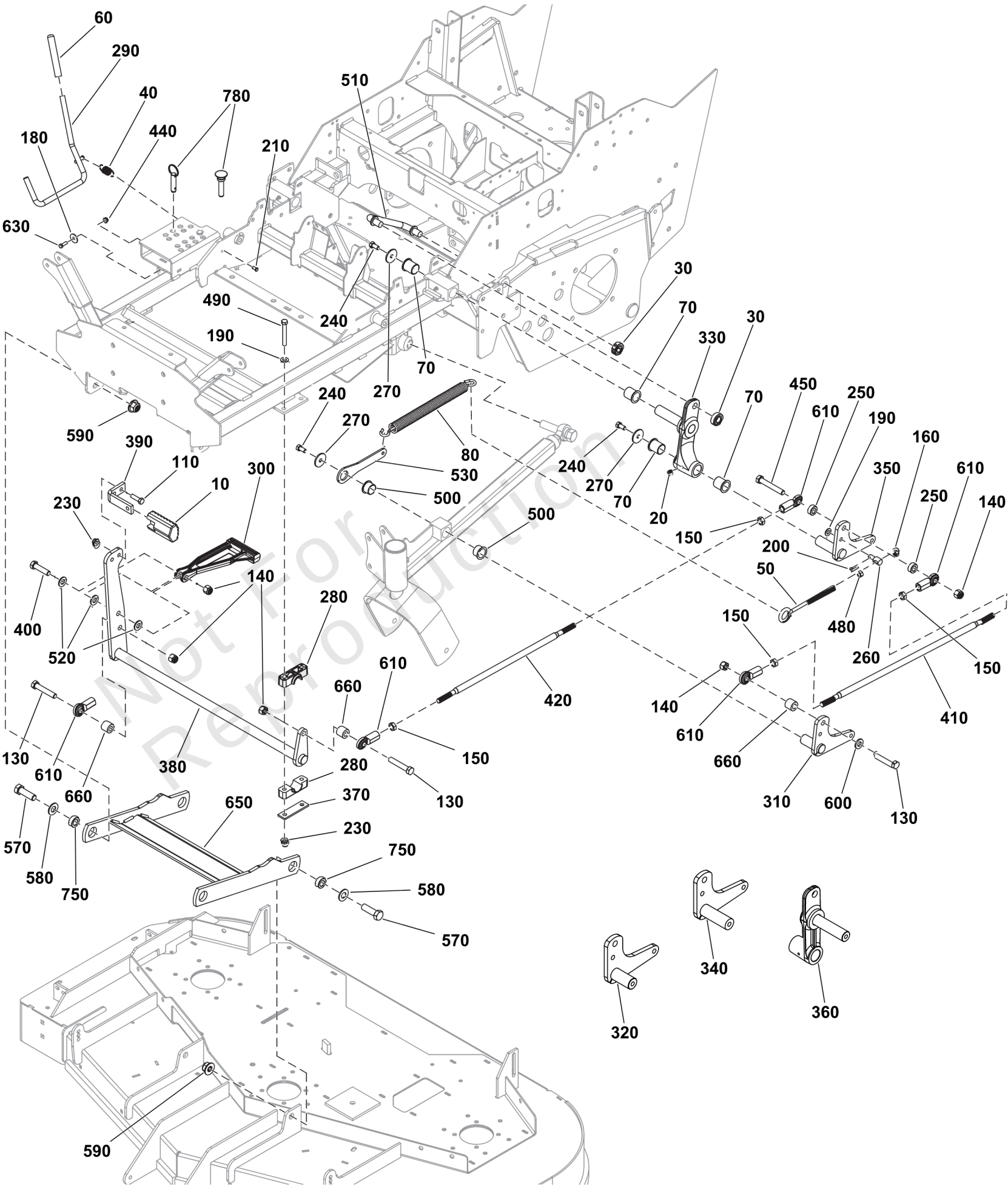
Deck Lift Group

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

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Deck Lift Group

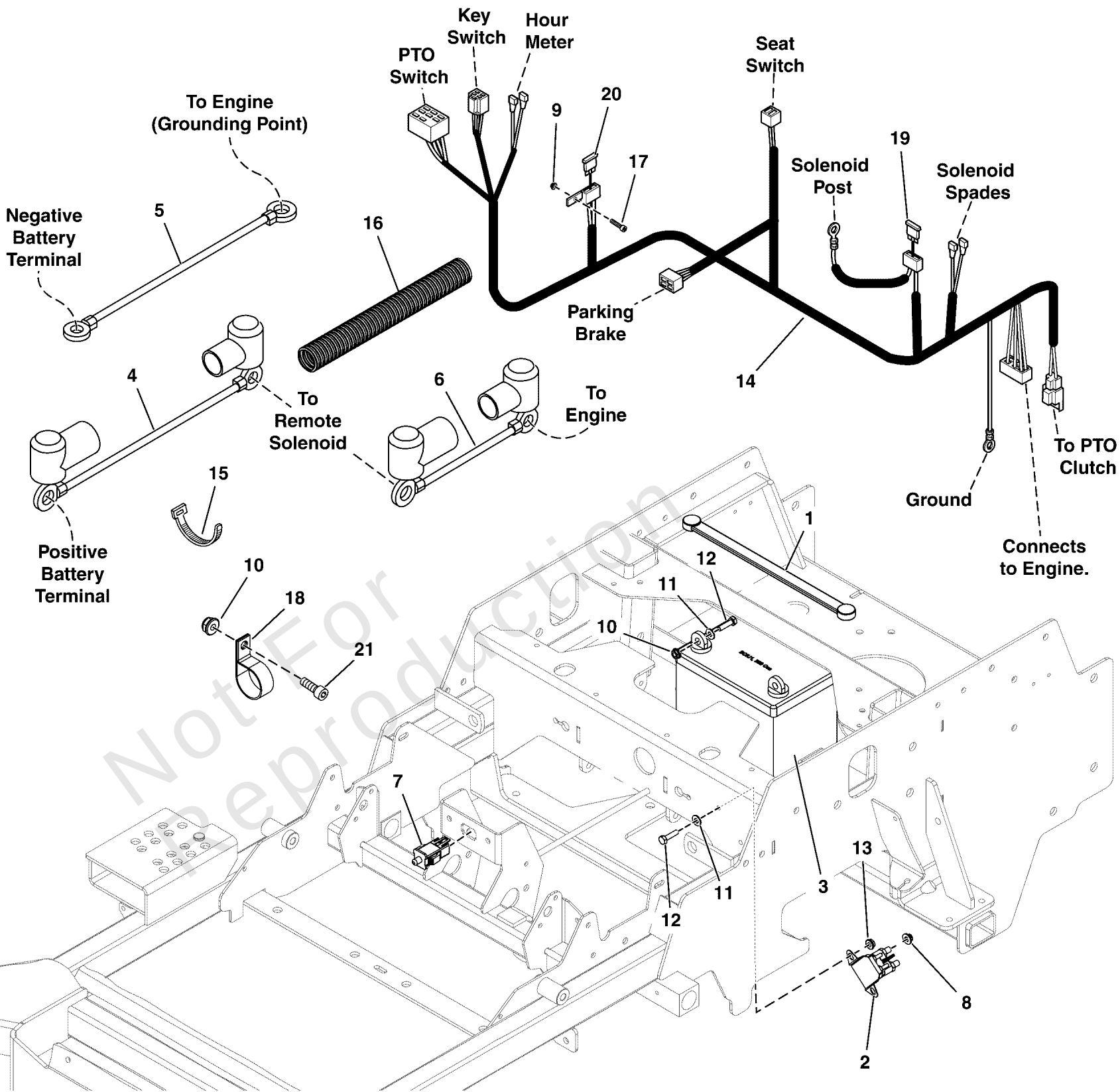
REF NO	PART NO	QTY	DESCRIPTION
650	84008118	1	BAR, Puller
660	5044673SM	4	SPACER, .52 X 1.00 X
750	84008136	4	BUSHING
780	5023498SM	1	PIN, HITCH, 1/2 X 2.0 -(Pin Style: Regular Deck Lift Pin)
780	84008180	1	PIN, Magnetic Deck Lift -(Pin Style: Magnetic Deck Lift Pin)

Not For Reproduction

Electrical Group S/N: 4002328396 and below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075



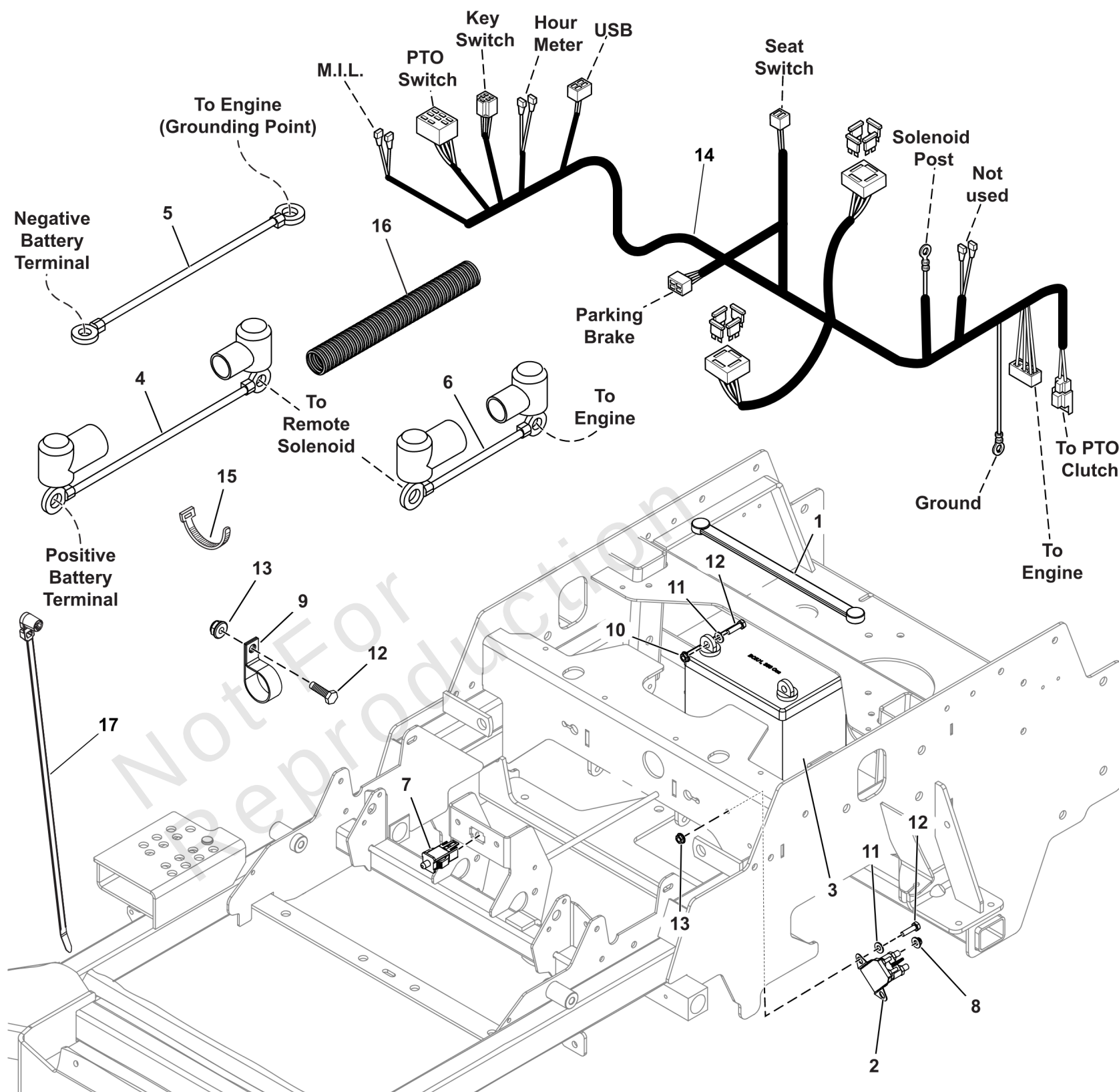
Electrical Group S/N: 4002328396 and below

REF NO	PART NO	QTY	DESCRIPTION
1	1722009	1	STRAP, BATTERY, 14 LONG, Rubber
2	1755382	1	SOLENOID, STD-BRACKET, 2-SPADE
3	-----	1	BATTERY, 11U1L, 350 CCA
4	5021405	1	BATTERY CABLE, POS, 22, 1/4-5/16
5	5047690	1	BATTERY CABLE, NEG, 14, 5/16-13/32
6	5023488	1	BATTERY CABLE, POS, 22, 1/4-5/16
7	7022886	1	SWITCH, DP NO/NC SNAP-IN
8	80003921	2	NUT,1/4-20,KEPS,CONICAL WSHR,ZC/CL
9	5025271	2	NUT, Hex, Nylon Lock, #10-24
10	5025126	5	NUT, 1/4-20 HEX SERR. FLANGE
11	5025154	4	WASHER, 1/4 SAE
12	5025010X6	4	BOLT, 1/4"-20 X 3/4" GD5 YZ
13	5025391	5	NUT, 1/4-20 Hex Nylock Flange
14	5105536	1	HARNESS, Wiring, Small ZTR
15	5021029	9	TIE, SELF-LOCKING, 12"
16	5050927X18	2	WIRE LOOM, 3/8 ID X 18 IN
17	5025179X6	2	SCREW, #10-24 X 3/4" ROUND PHILLIPS
18	5021500	3	CLAMP, VINYL INSULATED, 1.00
19	5021603	1	FUSE, ATO-20 (20 AMP)(SV)
20	5101935	1	FUSE, ATO-15 (15 AMP)(SV)
21	5025299X6	2	USE 5106757 - SCREW,1/4-20X3/4, ZINC

Electrical Group S/N: 4002328397 and above

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Electrical Group S/N: 4002328397 and above

REF NO	PART NO	QTY	DESCRIPTION
1	1722009SM	1	STRAP, Rubber, 13"
2	1755382YP	1	SOLENOID
3	-----	1	BATTERY, 12 VOLT, 350 CCA, 11U1LOE
4	5021405SM	1	BATTERY CABLE, POSITI
5	5047690SM	1	BATTERY CABLE
6	5023488SM	1	BATTERY CABLE
7	7022886YP	1	SWITCH, DP NO/NC SNAP
8	703061	2	NUT, HEX KEPS, 1/4-20
9	5021500FS	1	CLAMP
10	5025126FS	2	NUT
11	703332	4	WASHER
12	5025010X6SM	5	BOLT, 1/4-20 X 3/4" G
13	5025391FS	3	NUT
14	84011123	1	HARNESS, Wiring
15	5021029SM	14	TIE, Cable 11" Long
16	84008224	2	WIRE, LOOM
17	84011125	1	CABLE, Tie (Sold as a bag of 5)

Electrical Schematic - Charging Circuit B&S 44T977, 49T877 S/N: 4002328396 and

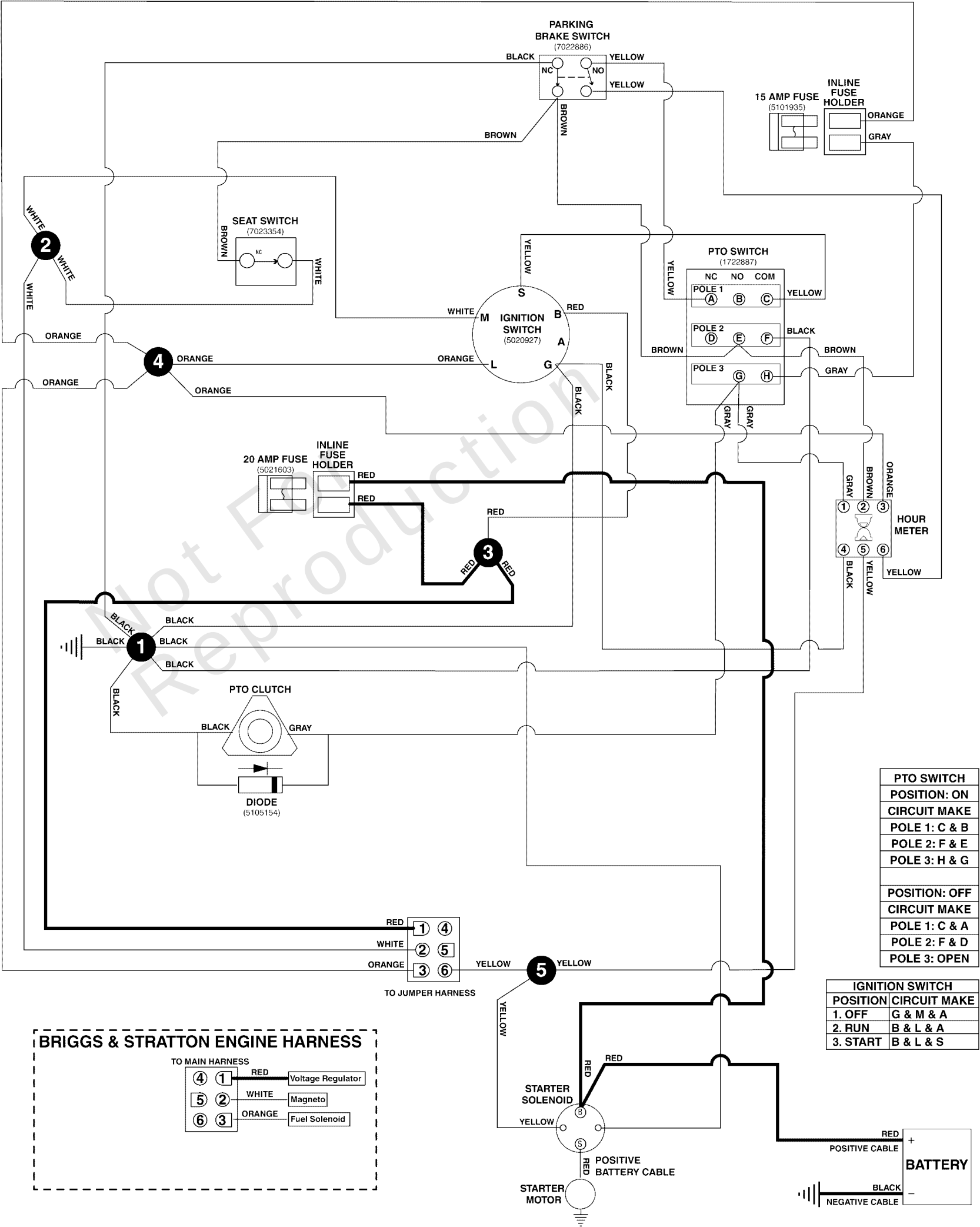
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075

5105536 MAIN WIRE HARNESS - BRIGGS & STRATTON 44T977, 49T877 ENGINES

5105536A

(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 44T977, 49T877 S/N: 4002328396 and

REF NO	PART NO	QTY	DESCRIPTION
5105536	5105536	1	HARNESS, Wiring, Small ZTR

Not For Reproduction

Electrical Schematic - Charging Circuit B&S 44T977, 49T877 S/N: 4002328397 and

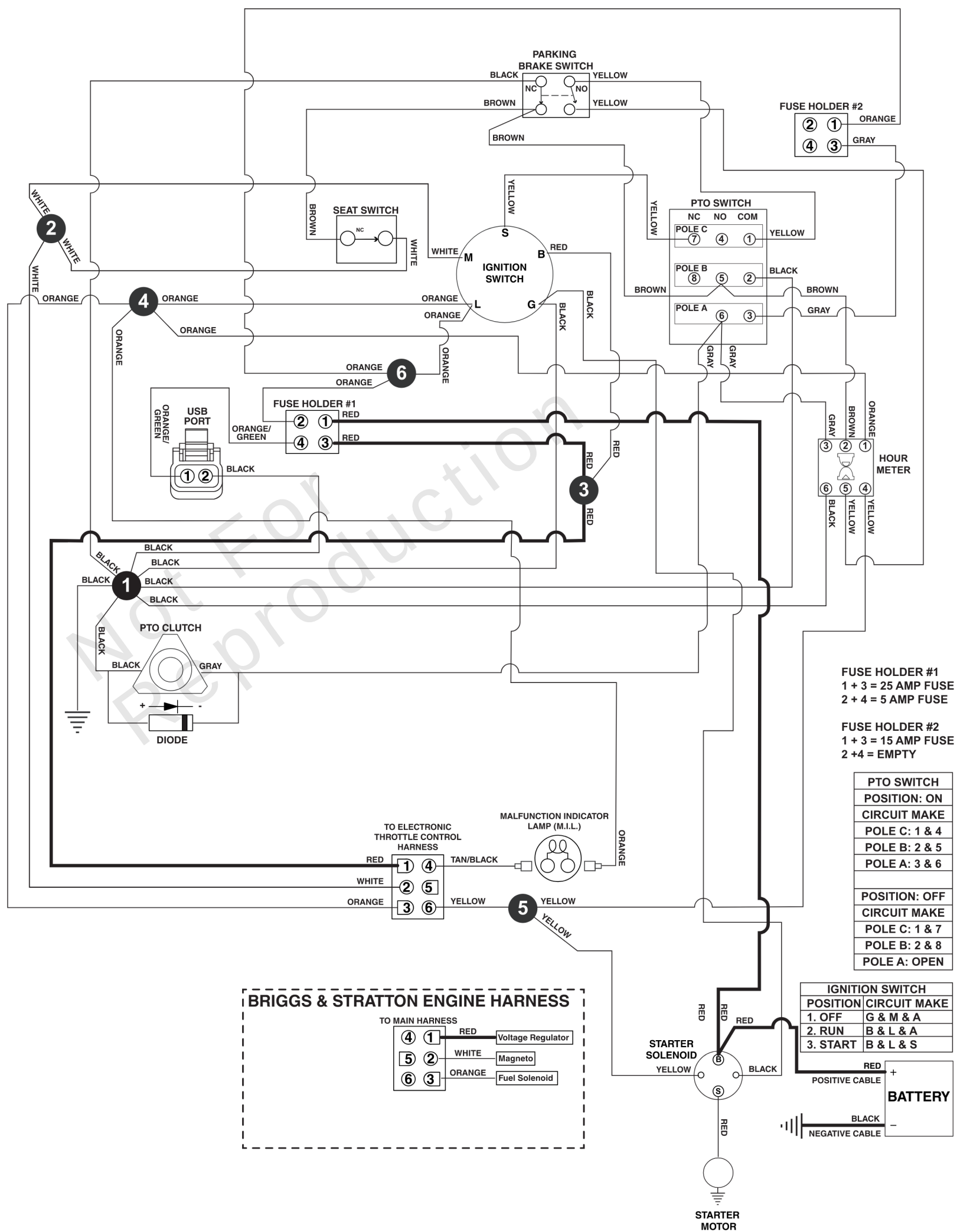
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075

84011123 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49X977 EFI ENGINES

5111234D

(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 44T977, 49T877 S/N: 4002328397 and

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

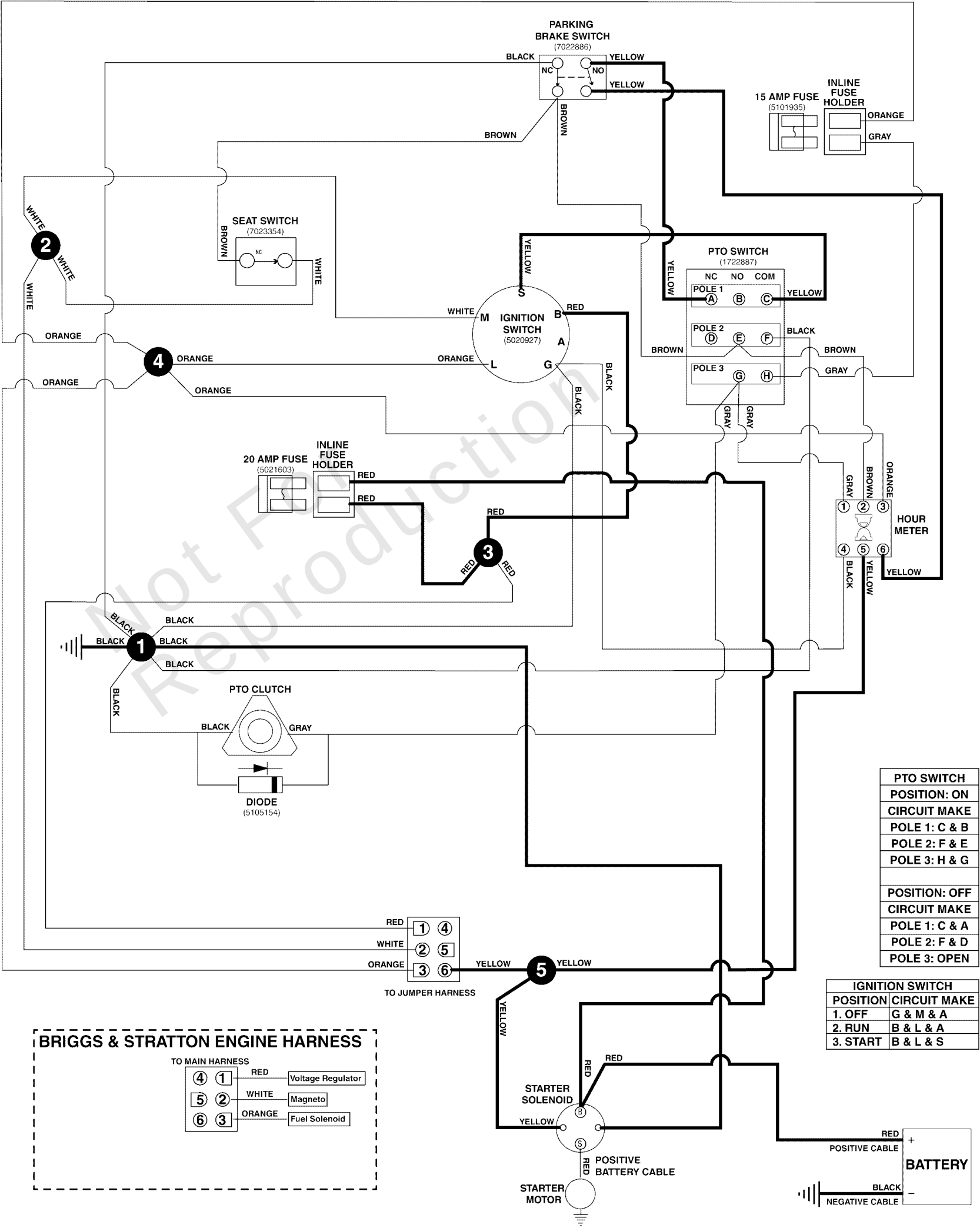
Not For Reproduction

Electrical Schematic - Cranking Circuit B&S 44T977, 49T877 S/N: 4002328396 and below

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5902075

5105536 MAIN WIRE HARNESS - BRIGGS & STRATTON 44T977, 49T877 ENGINES 5105536A

(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 44T977, 49T877 S/N: 4002328396 and below

REF NO	PART NO	QTY	DESCRIPTION
5105536	5105536	1	HARNESS, Wiring, Small ZTR

Not For Reproduction

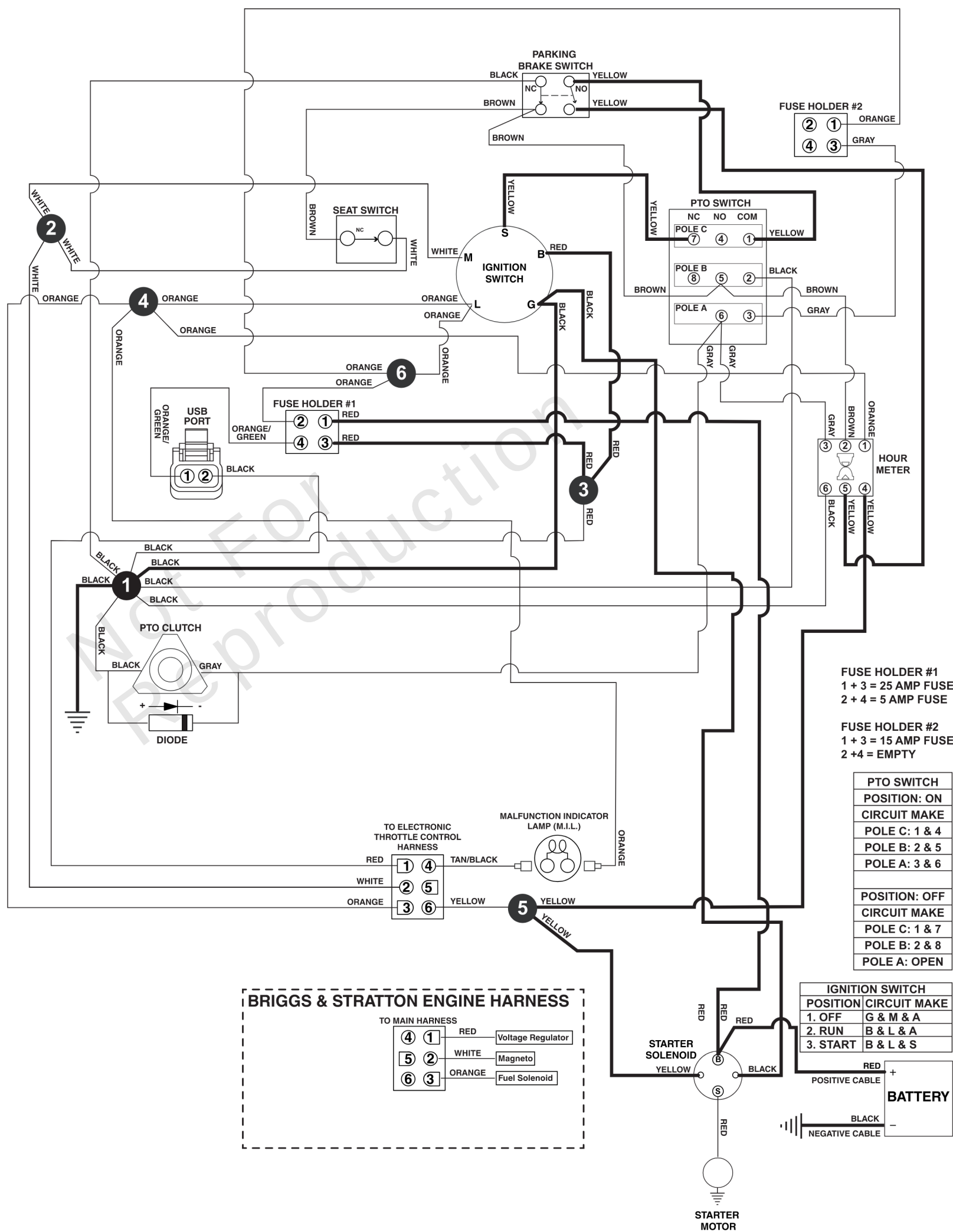
Electrical Schematic - Cranking Circuit B&S 44T977, 49T877 S/N: 4002328397 and above

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5902075

84011123 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49X977 EFI ENGINES

5111234D

(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 44T977, 49T877 S/N: 4002328397 and above

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

Not For Reproduction

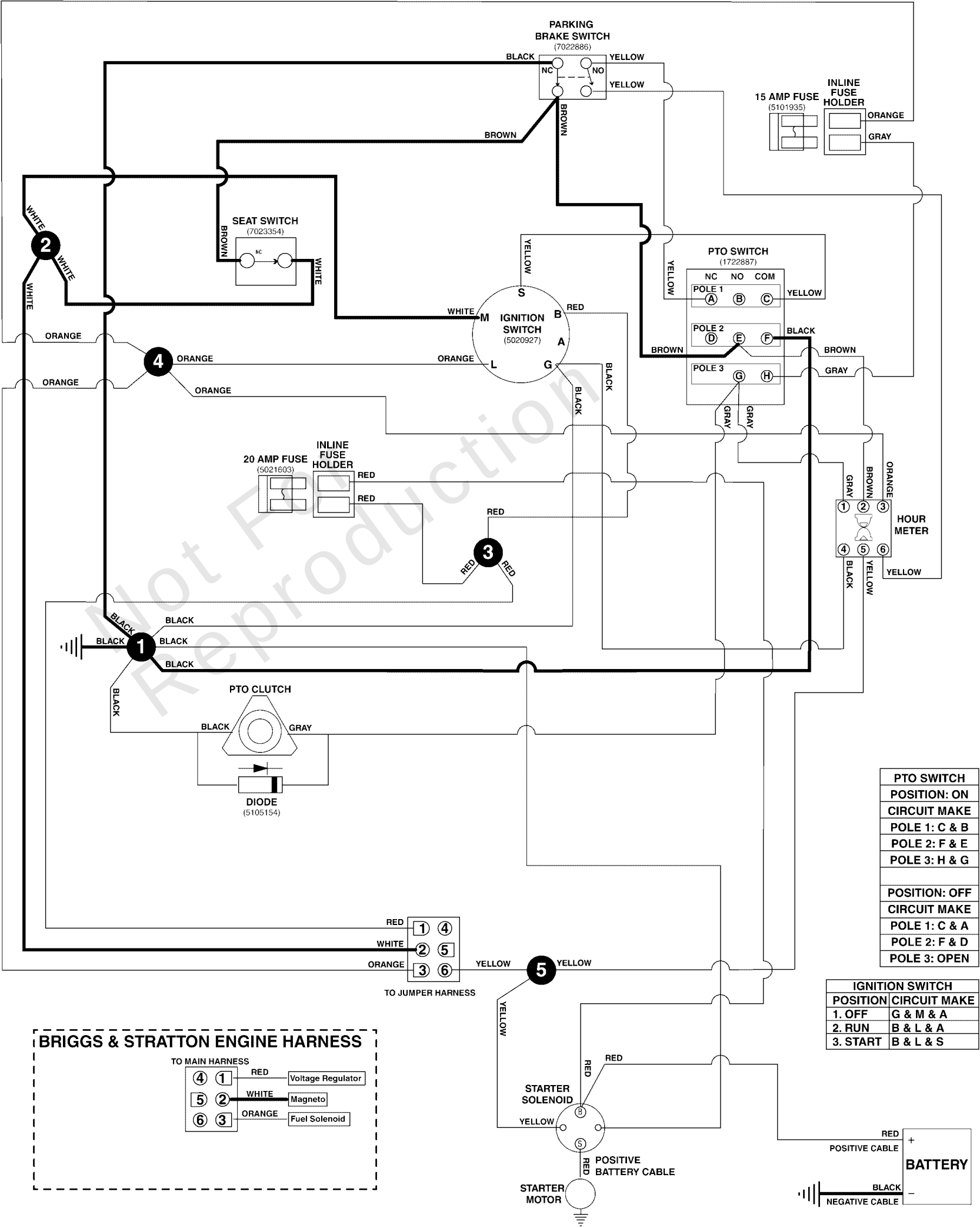
Electrical Schematic - Ign. Grounding Circuit/Op. Pres. B&S 44T977, 49T877 S/N:

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5902075

5105536 MAIN WIRE HARNESS - BRIGGS & STRATTON 44T977, 49T877 ENGINES

5105536A

(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. Grounding Circuit/Op. Pres. B&S 44T977, 49T877 S/N:

REF NO	PART NO	QTY	DESCRIPTION
5105536	5105536	1	HARNESS, Wiring, Small ZTR

Not For Reproduction

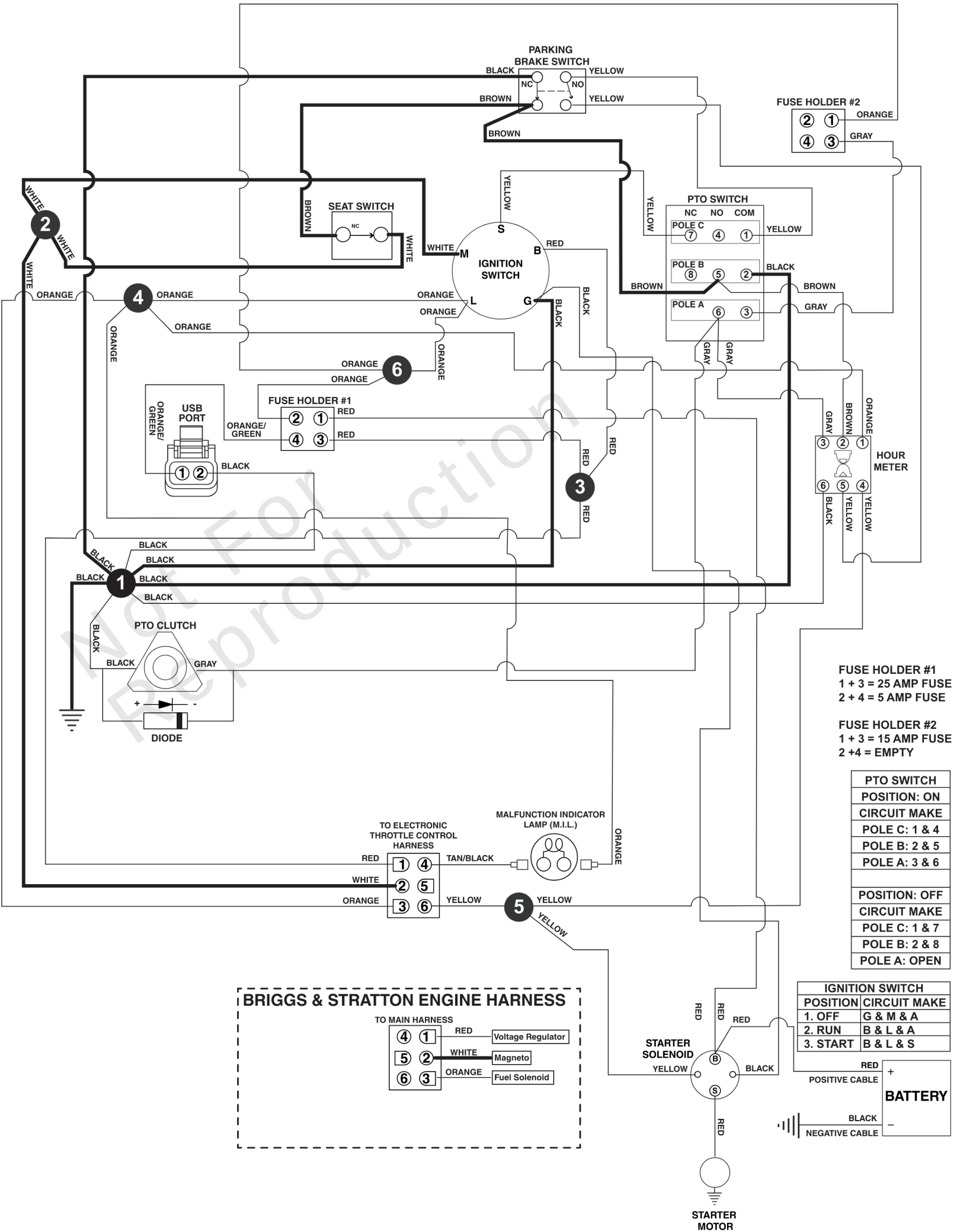
Electrical Schematic - Ign. Grounding Circuit/Op. Pres. B&S 44T977, 49T877 S/N:

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5902075

84011123 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49X977 EFI ENGINES

5111234D

(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. Grounding Circuit/Op. Pres. B&S 44T977, 49T877 S/N:

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

Not For Reproduction

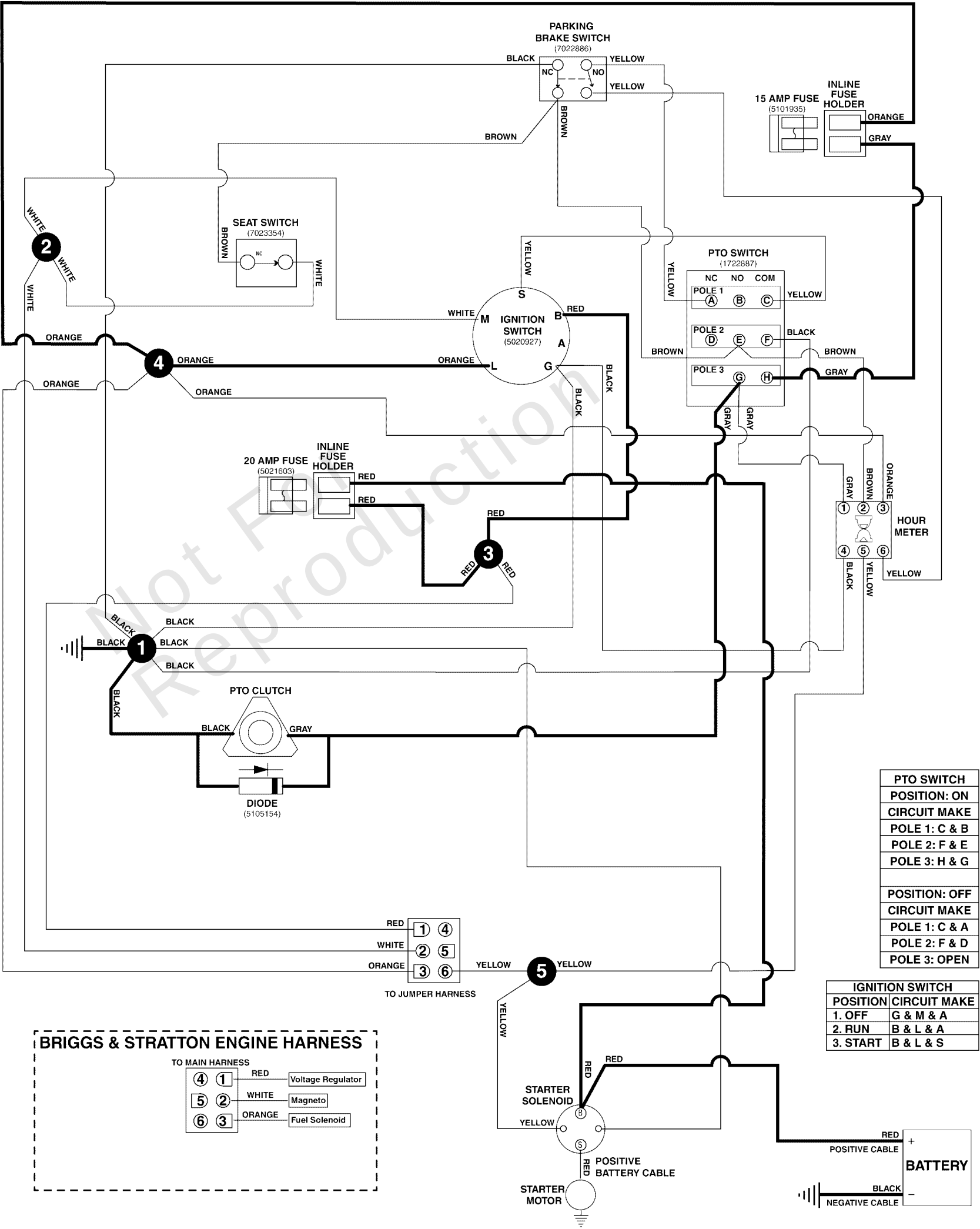
Electrical Schematic - PTO Clutch Circuit B&S 44T977, 49T877 S/N: 4002328396 and

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5902075

5105536 MAIN WIRE HARNESS - BRIGGS & STRATTON 44T977, 49T877 ENGINES

5105536A

(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 44T977, 49T877 S/N: 4002328396 and

REF NO	PART NO	QTY	DESCRIPTION
5105536	5105536	1	HARNESS, Wiring, Small ZTR

Not For Reproduction

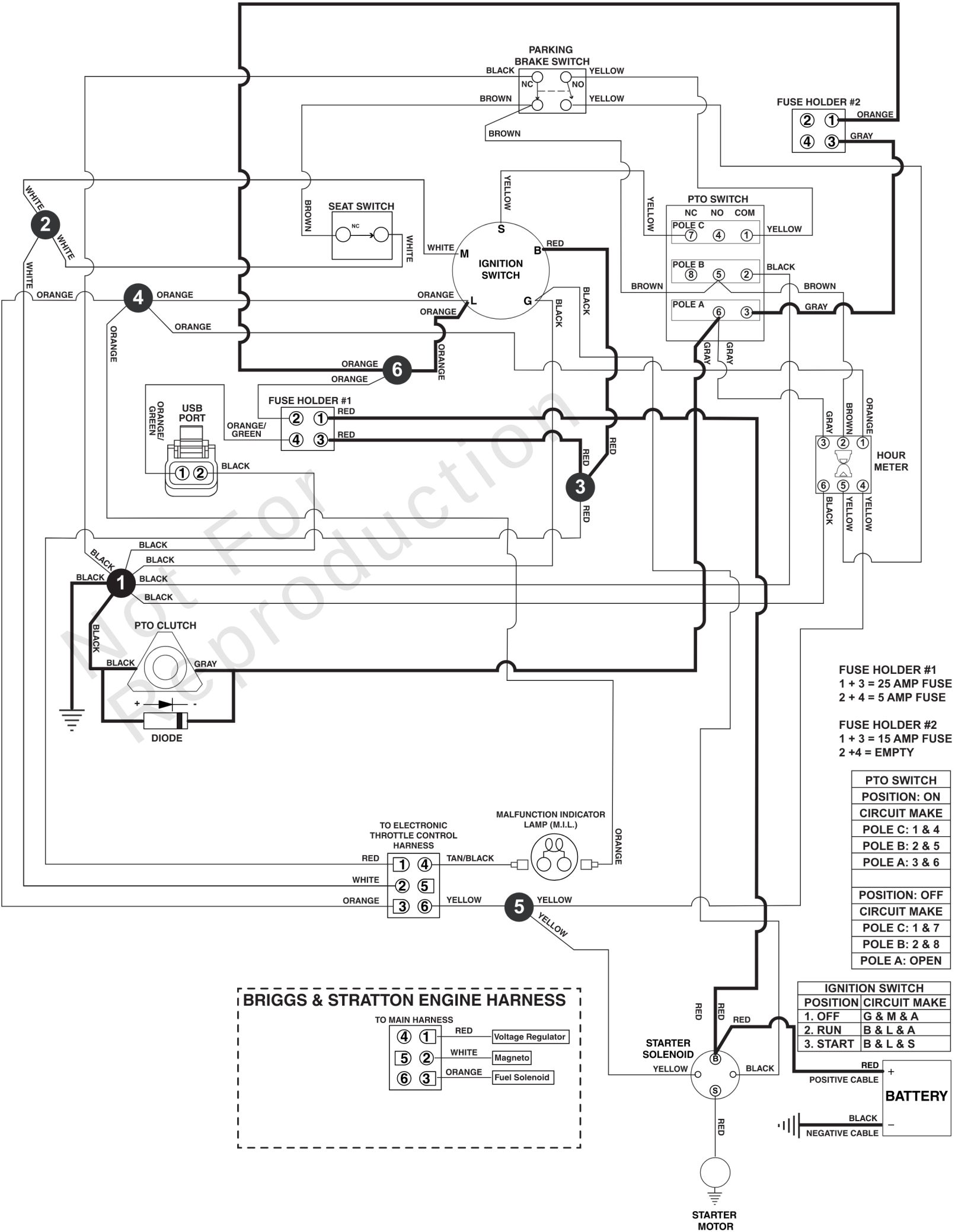
Electrical Schematic - PTO Clutch Circuit B&S 44T977, 49T877 S/N: 4002328397 and

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5902075

84011123 / MAIN WIRE HARNESS - BRIGGS & STRATTON 49X977 EFI ENGINES

5111234D

(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 44T977, 49T877 S/N: 4002328397 and

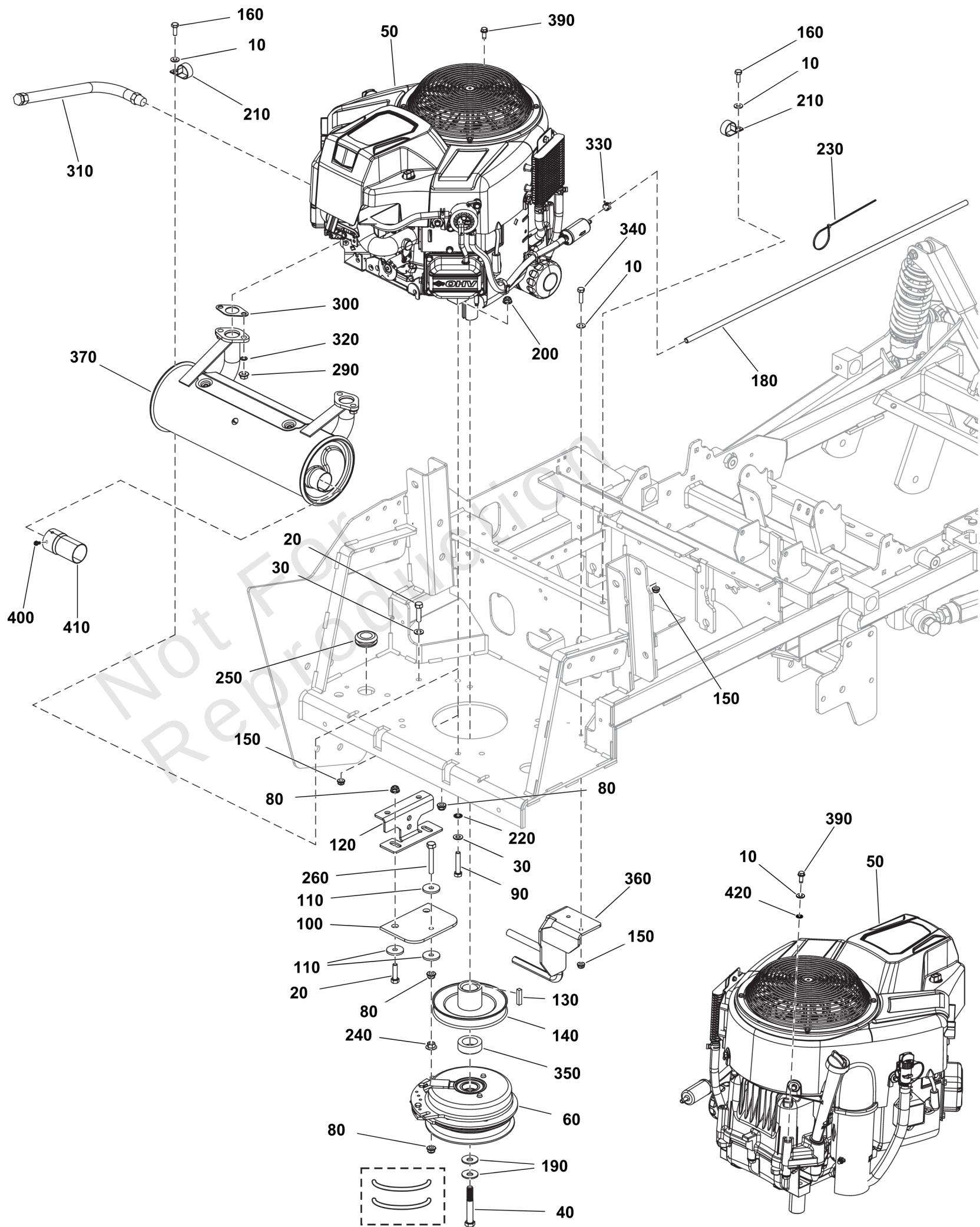
REF NO	PART NO	QTY	DESCRIPTION
84011123	84011123	1	HARNESS, Wiring

Not For Reproduction

Engine and PTO Group - Briggs & Stratton CXi

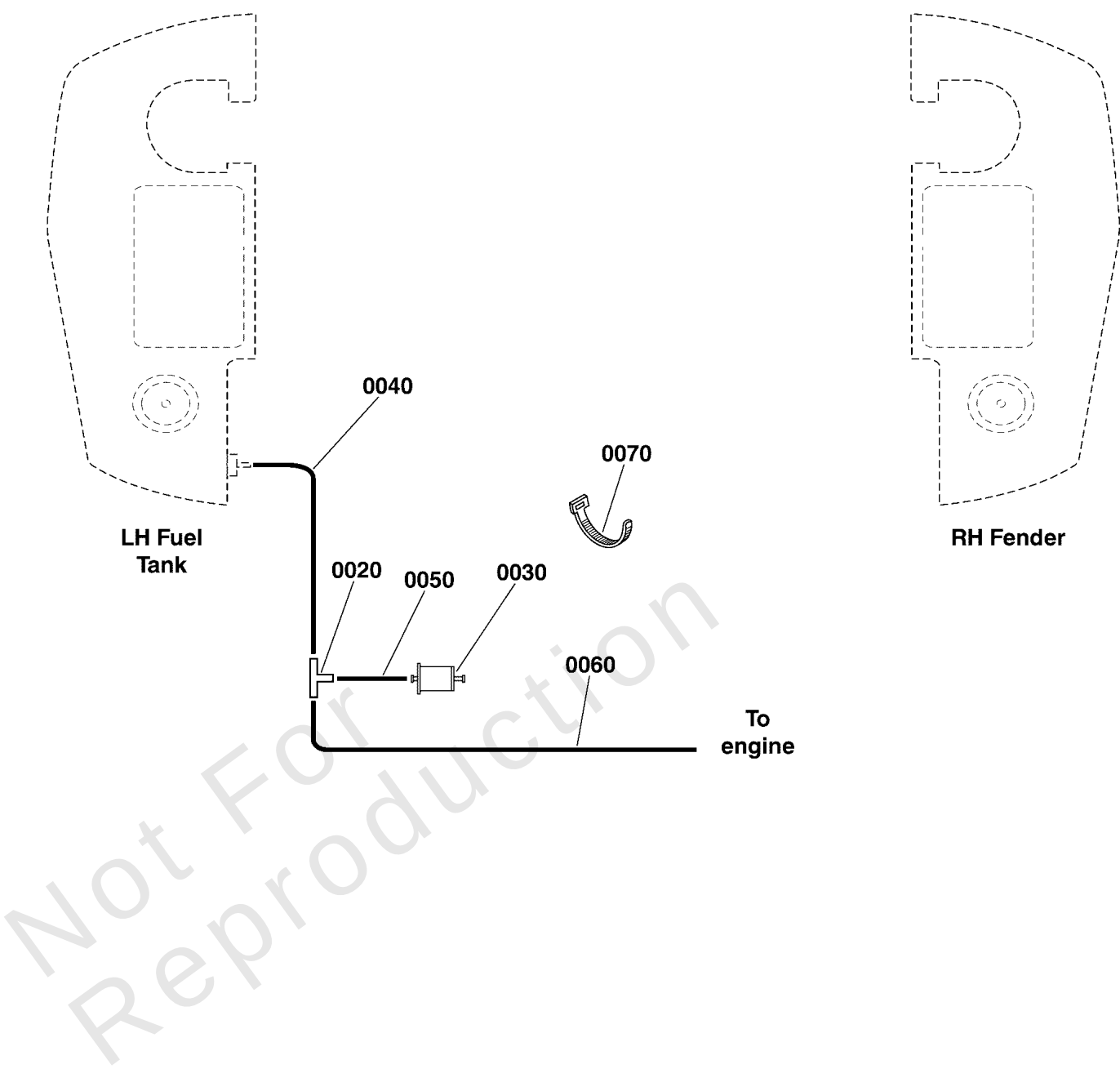
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075



Engine and PTO Group - Briggs & Stratton CXi

REF NO	PART NO	QTY	DESCRIPTION
10	84007033	6	WASHER
20	5025011X8FS	4	BOLT
30	703350	6	WASHER
40	5102866YP	1	BOLT, CRANKSHAFT, 7/1 -(Torque clutch mounting bolt to 65 ft-lbs (88 Nm); Apply Loctite 271 to threads of crankshaft bolt when assembling.)
50	-----	1	ENGINE, Briggs & Stratton CXi, 49T877-0046-G1 -(See engine manufacturer for engine service parts.)
60	5105090YP	1	CLUTCH
80	5025392FS	6	NUT
90	5025025X14YP	4	BOLT -(Torque engine mounting bolt to 50 ft-lbs (68 Nm))
100	5043636SM	1	CLUTCH ANCHOR PAD
110	5044617SM	4	WASHER, .34 X 1.25 X
120	5410367AYP	1	ANCHOR, CLUTCH
130	5050407X10YP	1	KEY, 1/4 SQ X 1-1/4
140	84008127	1	PULLEY, Crankshaft
150	5025391FS	5	NUT
160	5025010X6SM	3	BOLT, 1/4-20 X 3/4" G
180	5050831X29SM	1	HOSE, 1/4" FUEL, 29.00"
190	5025585YP	2	BELLEVILLE WASHER
200	5025616YP	4	NUT
210	5021500FS	3	CLAMP
220	5025188SM	4	WASHER, 5/16" INT. TO
230	5101492YP	1	TIE,SELF-LOCKING, 24"
240	5025139SM	1	NUT, 5/16-18 HEX SERR
250	5103944YP	1	GROMMET, 7/8"ID
260	5025055X18YP	1	BOLT, 5/16-18 X 2-1/4
290	690941	4	NUT
300	690970	2	GASKET, Exhaust
310	5048681SM	1	HOSE, OIL DRAIN
320	5023217SM	4	WASHER, 5/16 LIGHT LO
330	691038	2	CLAMP, Hose
340	5025010X8SM	2	BOLT, 1/4-20 X 1", GD
350	84008137	1	SPACER
360	5415993AYP	1	GUIDE, Belt
370	706900	1	MUFFLER, RIGHT OUTLET
390	703054	1	SCREW, 1/4-20X0.625
400	5025470YP	2	SCREW,SELF-TAP,#8-32
410	5104348YP	1	EXTENSION, TAILPIPE
420	1921880SM	1	LOCKWASHER-EXTERNALTO



Evap Group

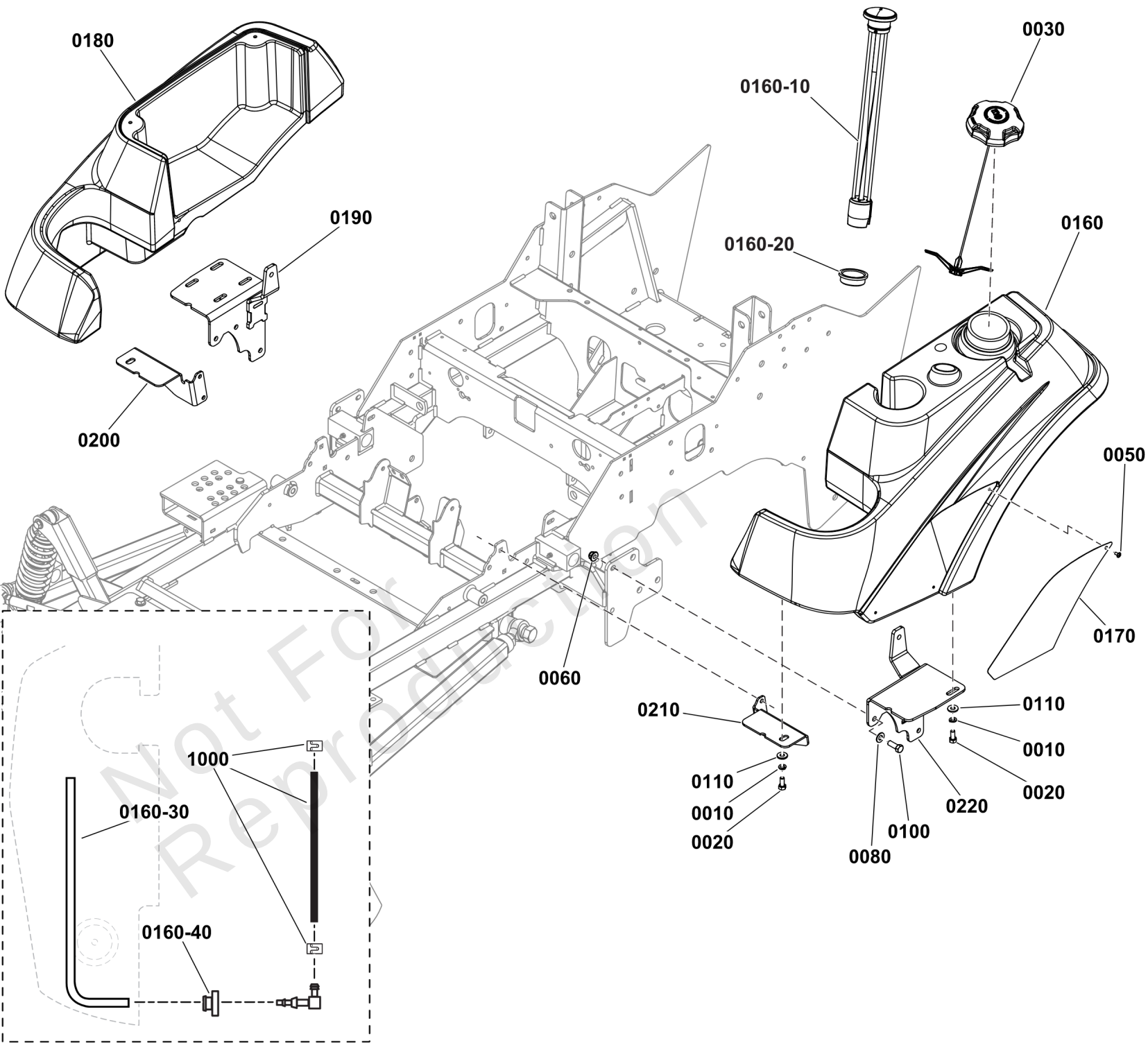
REF NO	PART NO	QTY	DESCRIPTION
0020	5103062YP	1	FITTING, 3/16" TEE, B
0030	84001895	1	FILTER, Fuel
0040	7700552X32YP	1	HOSE, VAPOR
0050	7700552X12YP	1	HOSE, VAPOR,5MM ID,12
0060	7700552X2YP	1	HOSE, VAPOR
0070	5021030SM	2	TIE WRAP, 5-1/2" LONG

Not For Reproduction

Fuel Tank and Mount Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075



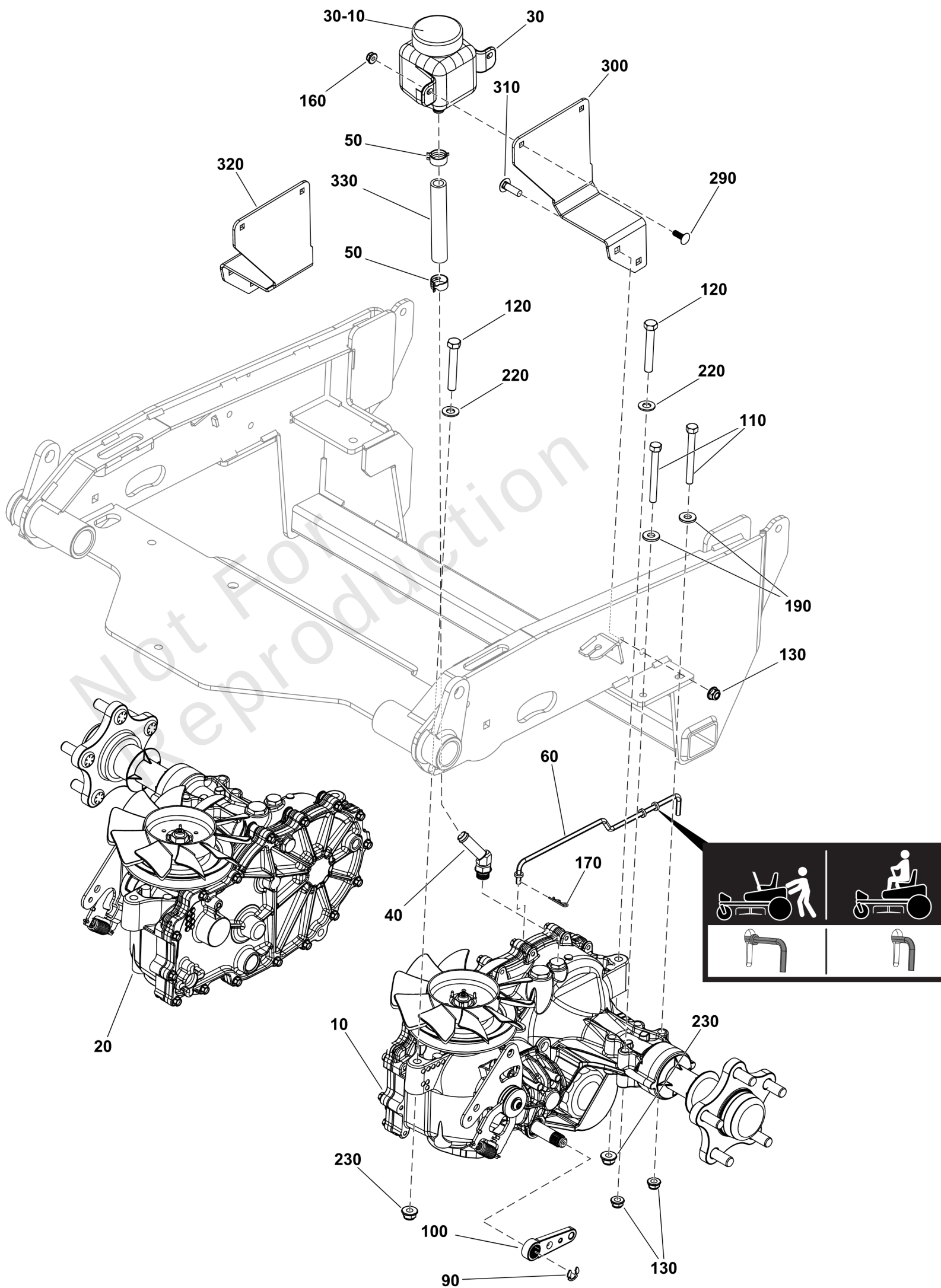
Fuel Tank and Mount Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5025170SM	10	WASHER, 5/16" LOCK
0020	5025011X6SM	10	BOLT, 5/16-18 X 3/4"
0030	84005958	1	CAP, FUEL TANK
0050	5025386SM	6	SCREW, #10-24 X 3/8"
0060	5025394SM	6	NUT, 3/8-16 HEX NYLOCK
0080	5025156FS	6	WASHER
0100	5025013X8SM	6	BOLT, 3/8-16 X 1" GD5
0110	5025292SM	10	WASHER, 5/16" GD.9 FL
0160	5103176YP	1	TANK, FUEL, LH
0160-10	5022917FS	1	GAUGE, FUEL
0160-20	5022917X1SM	1	GROMMET, FUEL GAUGE
0160-30	5101149	1	PICKUP TUBE ASM, FUEL TANK, 22" -(SV)
0160-40	1726400FS	1	BUSHING -(SV)
0170	5400250BFS	2	PLATE
0180	5049948SM	1	TANK, FUEL, 1500Z - R
0190	84008278	1	MOUNT, Tank
0200	84008279	1	MOUNT, Tank
0210	84008280	1	MOUNT, Tank
0220	84008281	1	MOUNT, Tank
1000	-----	1	Refer to: Engine & PTO Group

Hydraulic Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075



Hydraulic Group

REF NO	PART NO	QTY	DESCRIPTION
10	84008005	1	TRANSAXLE -(S/N: 4002279219 and below)
10	84008696	1	TRANSAXLE -(S/N: 4002279220 and above)
20	84007998	1	TRANSAXLE -(S/N: 4002279219 and below)
20	84008697	1	TRANSAXLE -(S/N: 4002279220 and above)
30	5100473SM	2	RESERVOIR
30-10	5100778X1YP	2	RESERVIOR CAP (SV) -(One per tank)
40	5102054FS	2	FITTING
50	5025474SM	4	CLAMP - HOSE
60	84012840	2	ROD, Bypass
90	5104055YP	2	E-CLIP
100	5103750YP	2	BRAKE ARM, ZT-3400
110	5025011X24SM	4	BOLT, 5/16-18
120	84007037	4	BOLT
130	703115	8	NUT
160	5025391FS	6	NUT
170	5025211SM	2	PIN, HAIR, .0585" X 1
190	5025292SM	4	WASHER, 5/16" GD.9 FL
220	5025156FS	4	WASHER
230	5025394SM	4	NUT, 3/8-16 HEX NYLOCK
290	703575	4	BOLT, 1/4-20X.750, SQ
300	84008123	1	MOUNT, LH
310	703800	4	BOLT, CRRG, 5/16-18X1
320	84008124	1	MOUNT, RH
330	84008112	2	HOSE -(Cut to length.)

Instrument Control Panel Group

Note: Unless noted otherwise, use the standard torque specifications

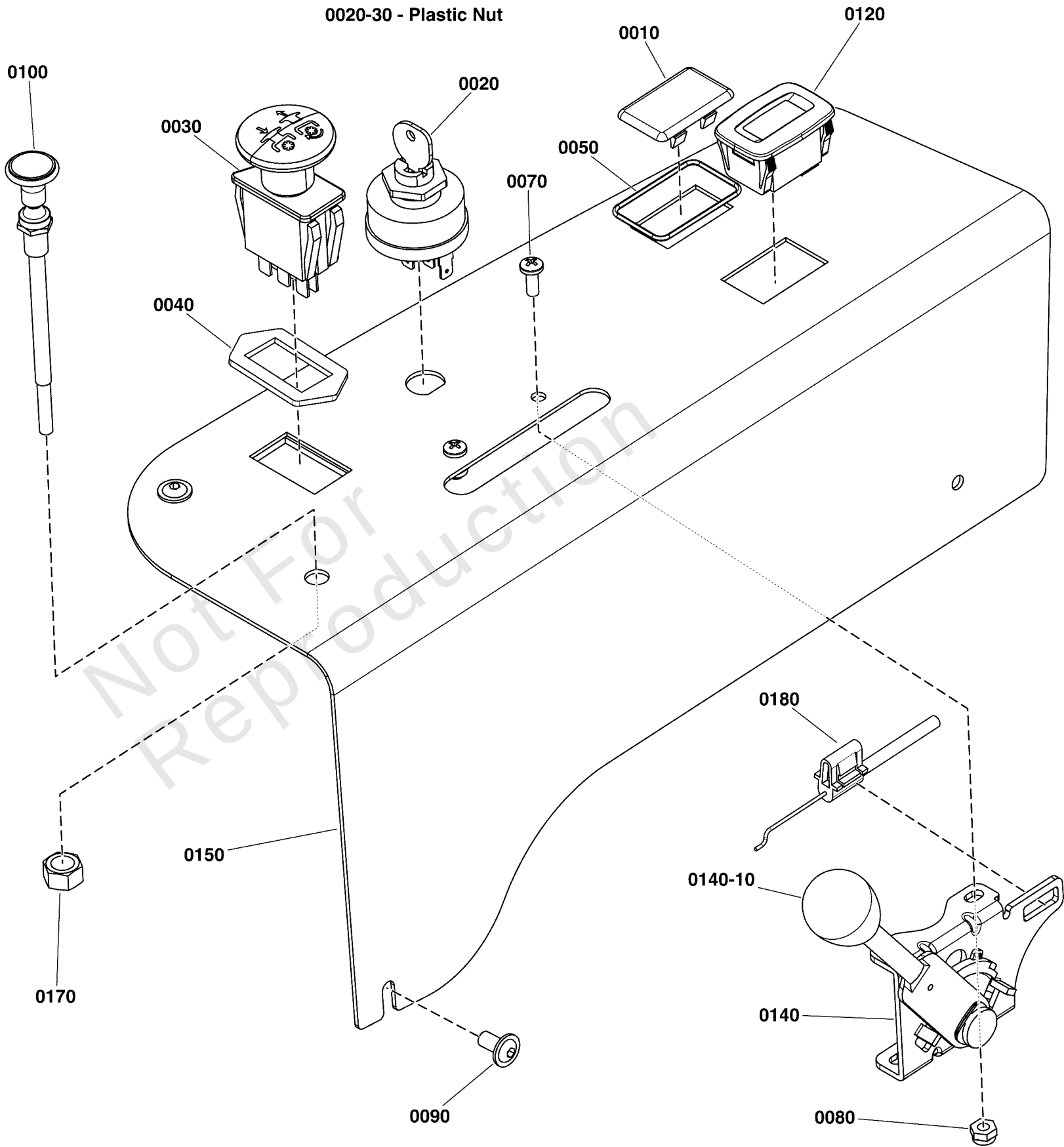
Mfg. No: 5902075

Ignition Switch Service Parts

0020-10 - Key, Ignition, Set

0020-20 - Cover

0020-30 - Plastic Nut



Instrument Control Panel Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1709188	1	PLUG, .820X1.44 HOLE, BLACK PLASTIC
0020	5020927	1	SWITCH, IGNITION, 6 POST
0020-10	5022789	1	KEY, IGNITION MOLDED SET
0020-20	5022790	1	COVER, PLASTIC, SNAP ON
0020-30	5022791	1	PLASTIC NUT
0030	1722887	1	SWITCH-PTO PUSH
0040	5022222	1	RING, SWITCH RETAINER
0050	5022269	1	O-RING, 7/8" ID X 1/16" W
0070	5025179X6	2	SCREW, #10-24 X 3/4" ROUND PHILLIPS
0080	5025271	2	NUT, Hex, Nylon Lock, #10-24
0090	5106469	3	SCREW, FLANGE, ALLEN HD, 1/4-20X.5 S/S
0100	5047779	1	CABLE, CHOKE CONTROL, 51" (Z)
0120	84008510	1	HOURMETER
0140	5101537	1	LEVER, THROTTLE CONTROL, HEAVY-DUTY
0140-10	5046360X1	1	THROTTLE CONTROL HANDLE/KNOB
0150	5410303A	1	PLATE, CONTROL PANEL, IS600Z - BLK
0150	5410303AA	1	PLATE, CONTROL PANEL, IS600Z - BLK
0170	5025035SM	1	NUT (3/8-24 HEX)
0180	5101073	1	CABLE, THROTTLE, 42"

Instrument Control Panel Group - Models with USB Port

Note: Unless noted otherwise, use the standard torque specifications

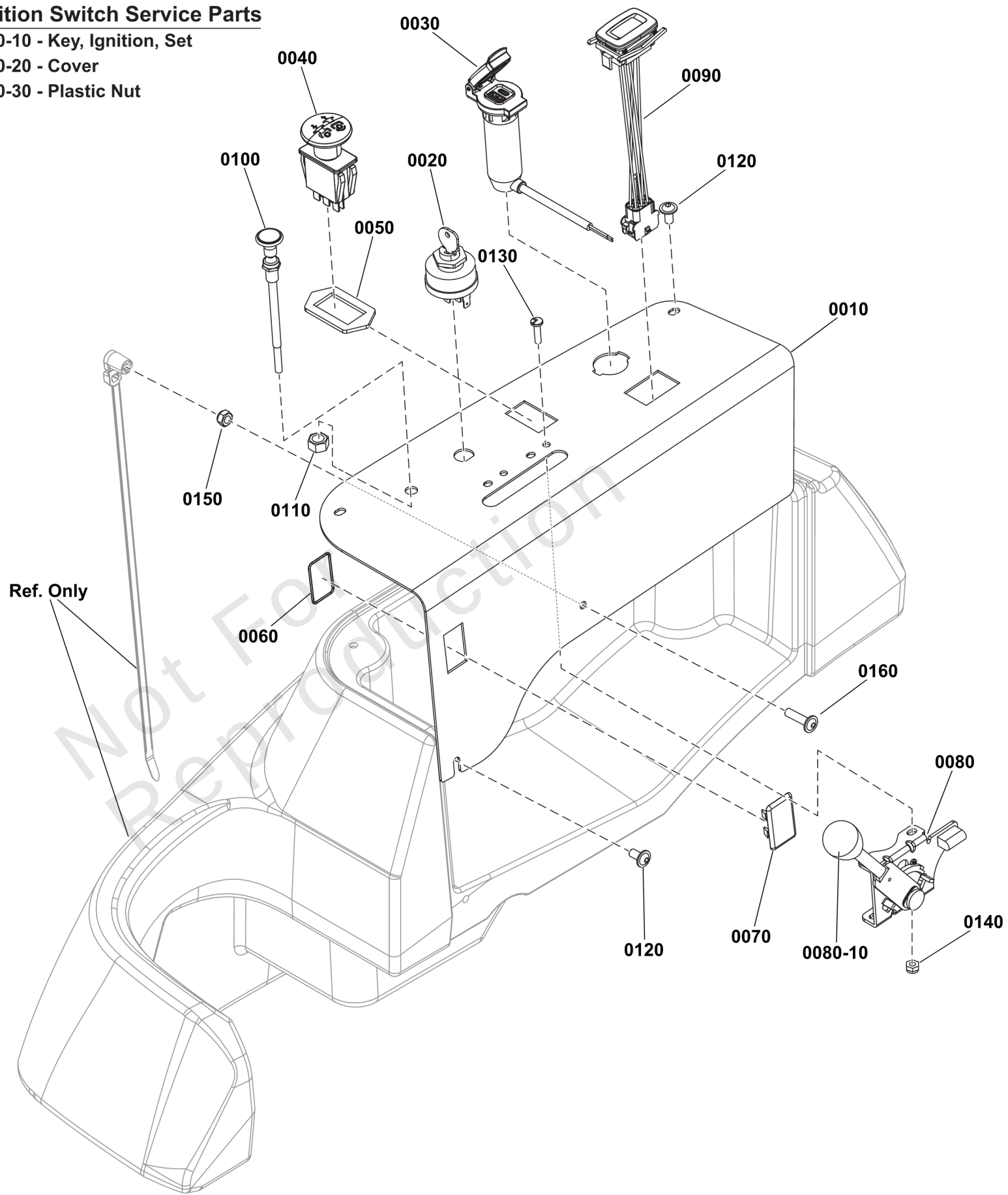
Mfg. No: 5902075

Ignition Switch Service Parts

0020-10 - Key, Ignition, Set

0020-20 - Cover

0020-30 - Plastic Nut



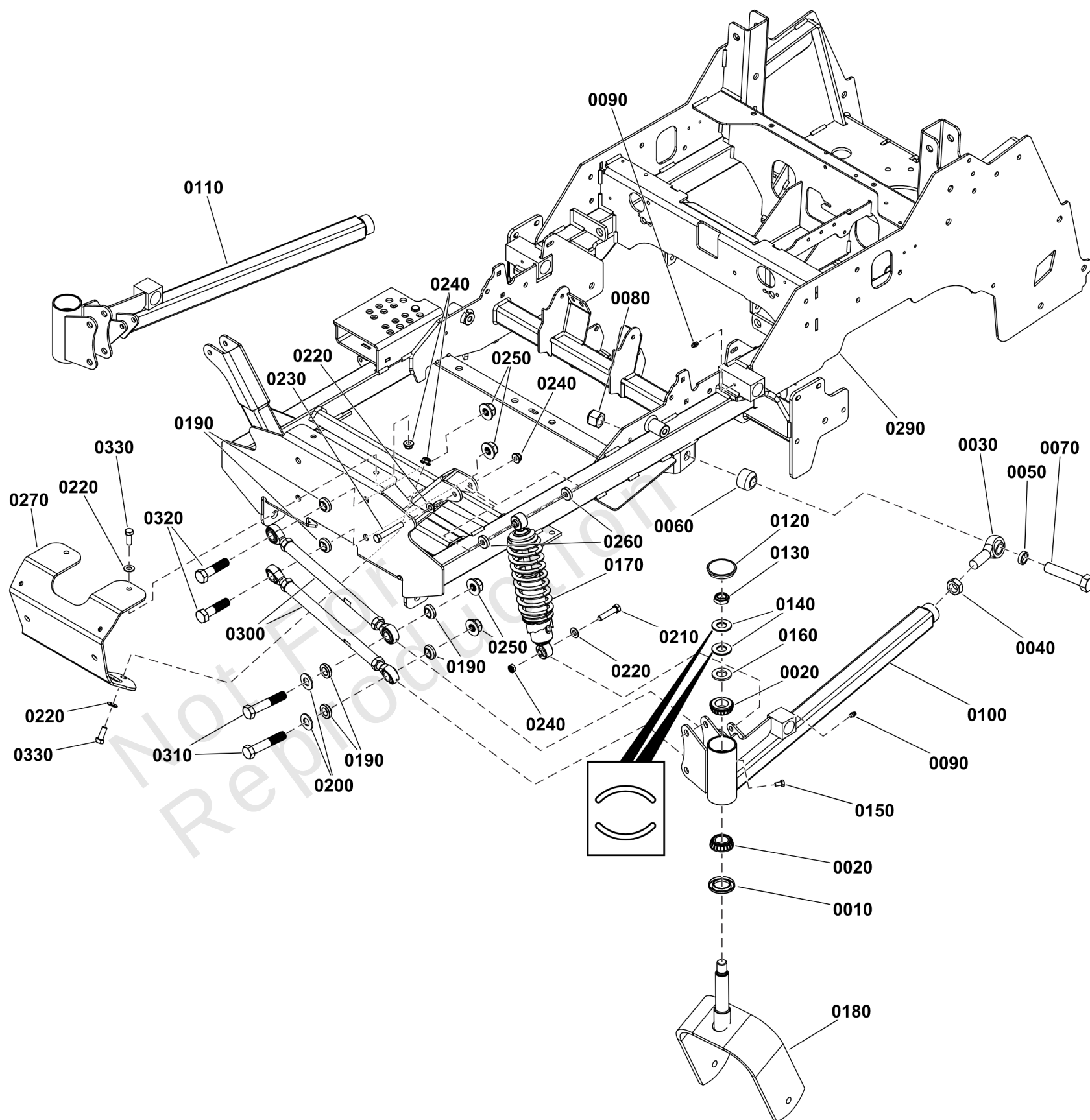
Instrument Control Panel Group - Models with USB Port

REF NO	PART NO	QTY	DESCRIPTION
0010	84011145	1	PLATE, Control Panel
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	84008798	1	USB Port
0040	1722887SM	1	SWITCH-PTO PUSH
0050	5022222SM	1	RING, SWITCH RETAINER
0060	5022269SM	1	O-RING, 7/8" ID X 1/1
0070	1709188SM	1	PLUG, BLACK PLASTIC
0080	5101537SM	1	LEVER, THROTTLE CONTR
0080-10	5046360X1SM	1	KNOB, Throttle Control
0090	84008510	1	HOURLMETER
0100	5047779SM	1	CABLE, CHOKE CTRL
0110	5025035SM	1	NUT (3/8-24 HEX)
0120	84002228	3	SCREW, FLANGE
0130	5025179X6SM	2	SCREW - #10-24
0140	5025271FS	2	NUT
0150	5025095SM	1	NUT, 1/4-20 HEX NYLON
0160	5025299X8YP	1	CAPSCREW

Main Frame and Front Suspension Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075



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	84008275	1	ARM, Suspension - LH
0110	84008276	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	84001896	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.)

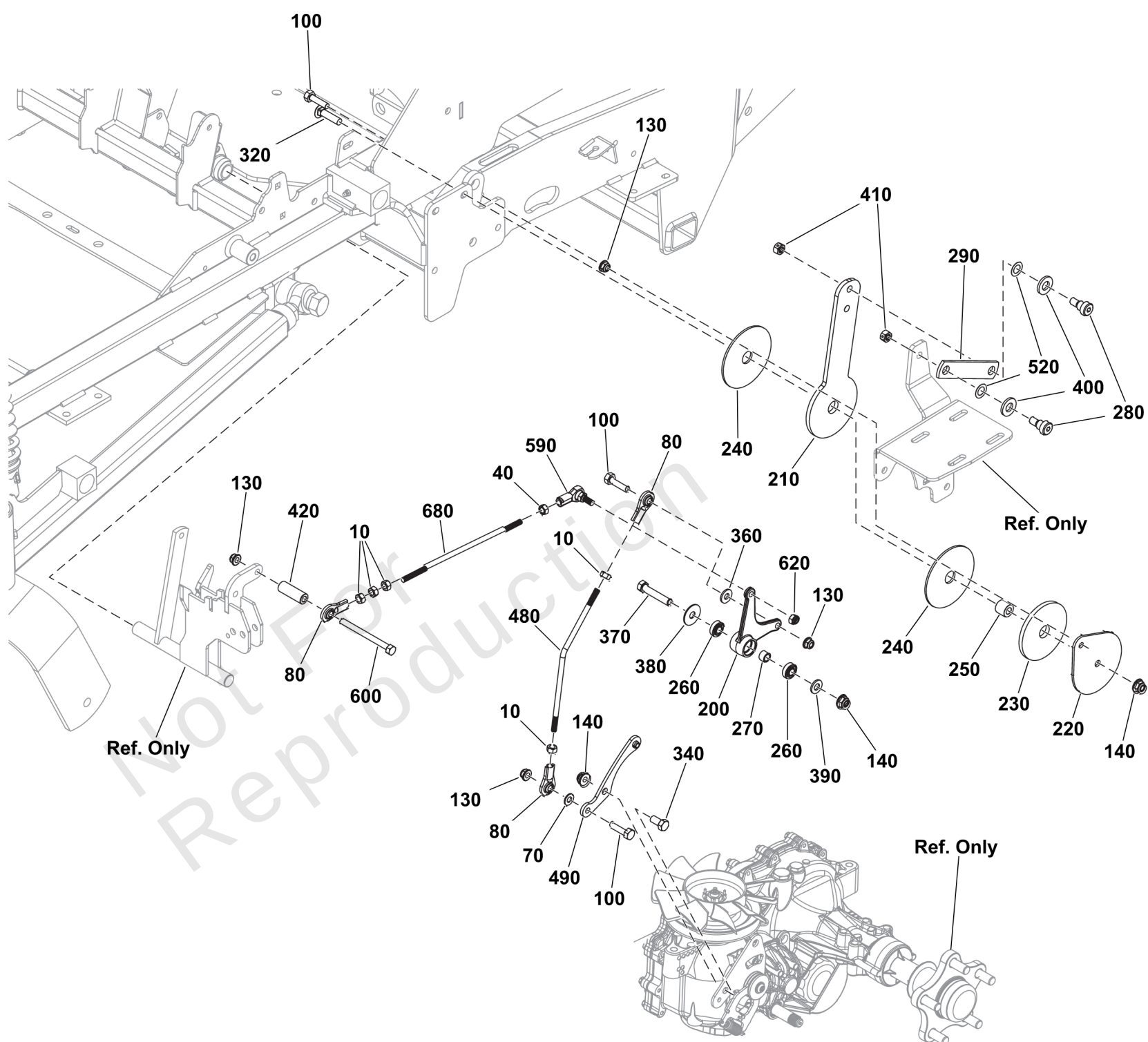
Footnotes:

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

Motion Control Group - Control System S/N: 4002400693 and Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075



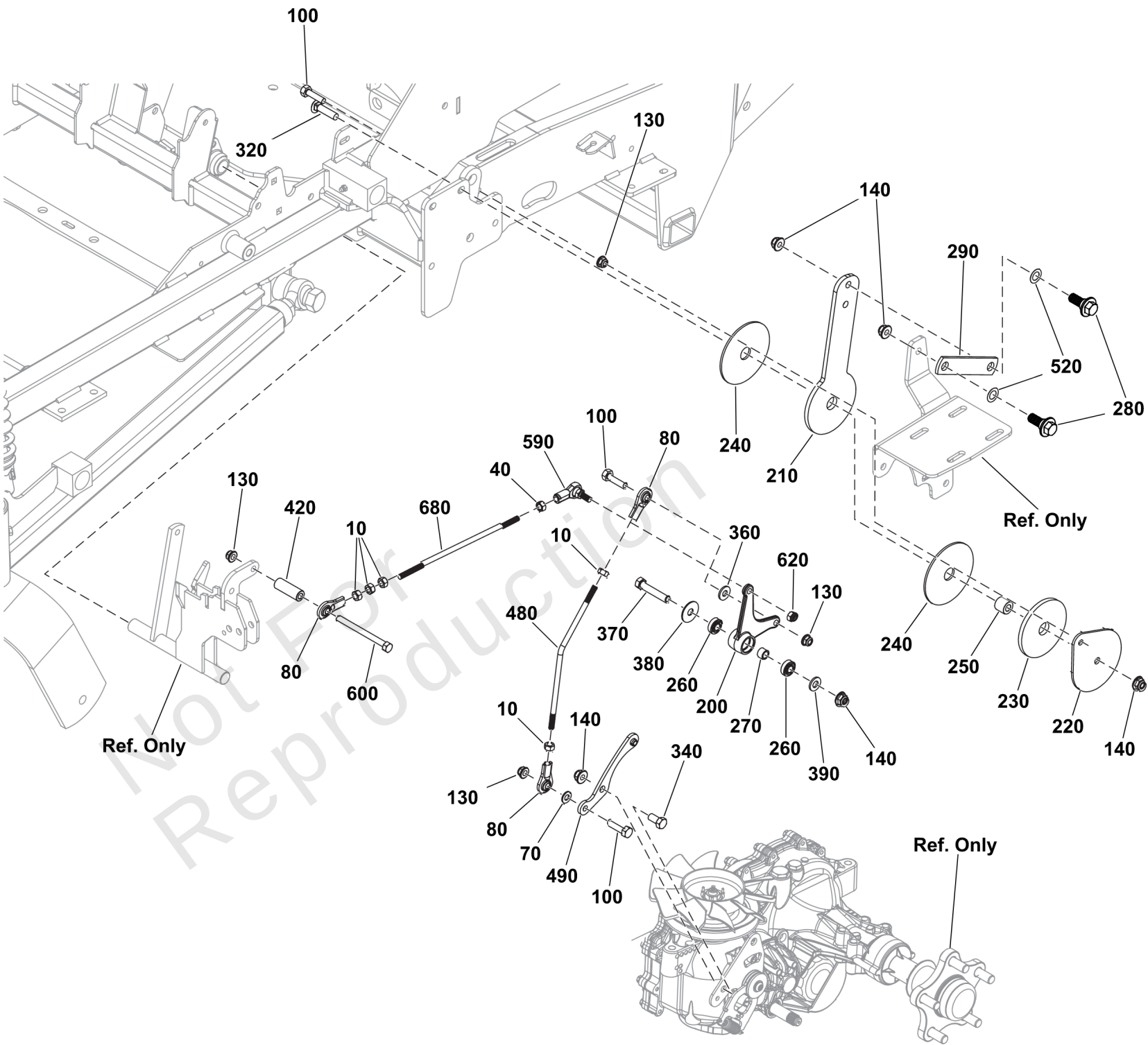
Motion Control Group - Control System S/N: 4002400693 and Below

REF NO	PART NO	QTY	DESCRIPTION
10	5025033FS	10	NUT
40	5023212SM	2	NUT, 5/16-24 HEX, LH
70	703350	4	WASHER
80	5104578YP	6	JOINT-BALL
100	5025055X10YP	10	BOLT, 5/16-18 X 1-1/4
130	703115	18	NUT
140	5025394SM	10	NUT, 3/8-16 HEX NYLOCK
200	5103718YP	2	PIVOT, CONTROL SYSTEM
210	84008022	2	PLATE, CONTROL SYSTEM ARM - HT
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	84008023	2	LINK, CONTROL SYSTEM, 800/P1 - BLK
320	5025146X12YP	2	BOLT, 3/8-16 X 1-1/2
340	5025013X6SM	6	BOLT, 3/8-16 X 3/4" G
360	5025292SM	2	WASHER, 5/16" GD.9 FL
370	703589	2	CAPSCREW, 3/8-16X2
380	5025165SM	2	WASHER, 3/8" FENDER
390	5025293SM	2	WASHER, 3/8"
400	5025440SM	4	WASHER, 1/2" YELLOW
410	5025100SM	4	NUT, 3/8-16 HEX SIDE
420	84008020	2	SPACER
480	84008024	2	ROD, LOWER CONTROL, 800/P1 CONSOL
490	5105030YP	2	ARM-CONTROL
520	5103784YP	4	WAVE WASHER
590	5104495YP	2	JOINT-BALL
600	5025011X24SM	2	BOLT, 5/16-18
620	5025045SM	2	NUT, 5/16-24 HEX NYLO
680	84008025	2	ROD, 5/16-24 RH & LH, BZ

Motion Control Group - Control System S/N: 4002400694 and Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075



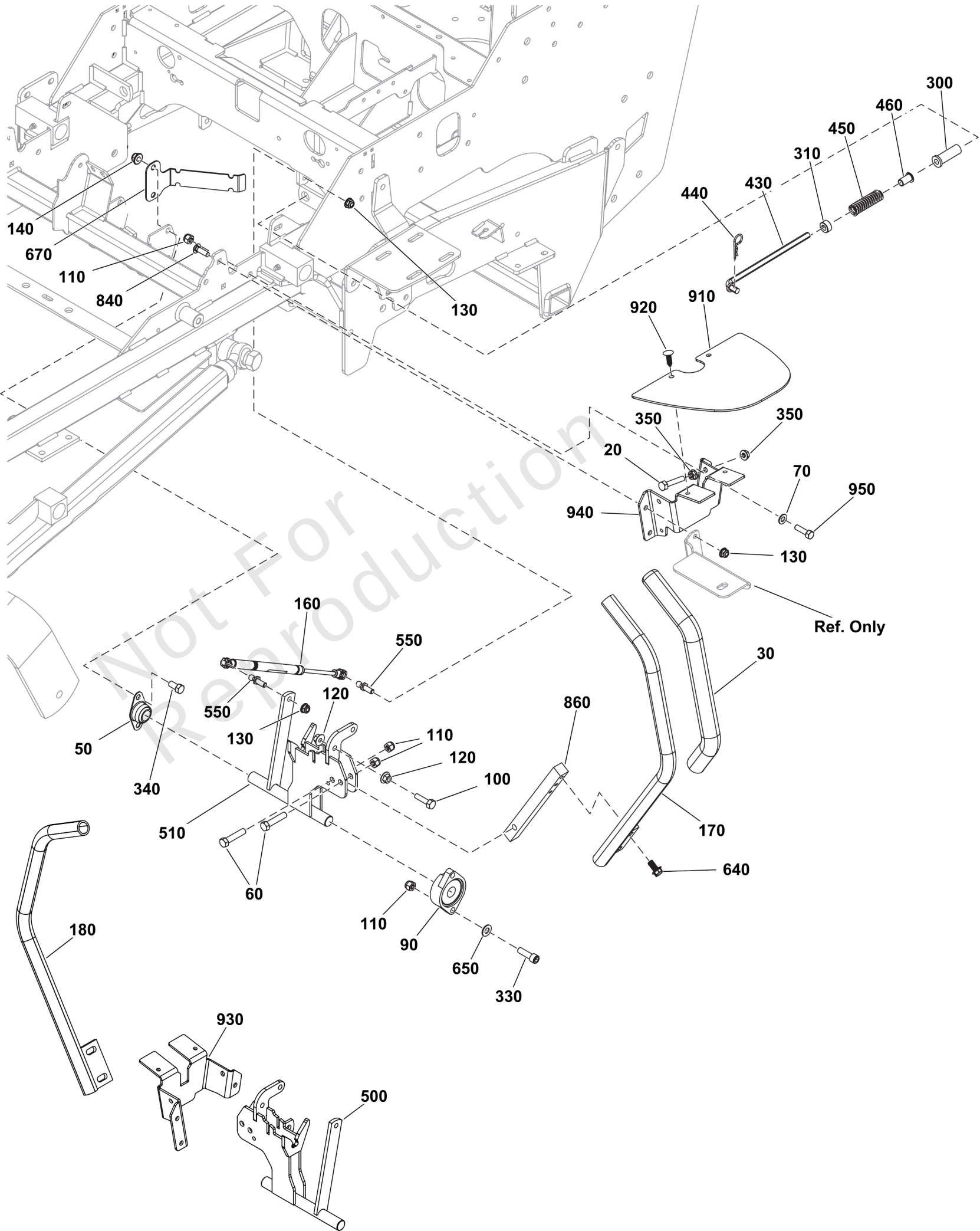
Motion Control Group - Control System S/N: 4002400694 and Above

REF NO	PART NO	QTY	DESCRIPTION
10	5025033FS	10	NUT
40	5023212SM	2	NUT, 5/16-24 HEX, LH
70	703350	4	WASHER
80	5104578YP	6	JOINT-BALL
100	5025055X10YP	10	BOLT, 5/16-18 X 1-1/4
130	5025392FS	18	NUT
140	5025394SM	14	NUT, 3/8-16 HEX NYLOCK
200	5103718YP	2	PIVOT, CONTROL SYSTEM
210	84008022	2	PLATE, CONTROL SYSTEM ARM - HT
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	2	BOLT, Washer
290	84008023	2	LINK, CONTROL SYSTEM, 800/P1 - BLK
320	5025146X12YP	2	BOLT, 3/8-16 X 1-1/2
340	5025013X6SM	6	BOLT, 3/8-16 X 3/4" G
360	5025292SM	2	WASHER, 5/16" GD.9 FL
370	703589	2	CAPSCREW, 3/8-16X2
380	5025165SM	2	WASHER, 3/8" FENDER
390	5025293SM	2	WASHER, 3/8"
420	84008020	2	SPACER
480	84008024	2	ROD, LOWER CONTROL, 800/P1 CONSOL
490	5105030YP	2	ARM-CONTROL
520	5103784YP	4	WAVE WASHER
590	5104495YP	2	JOINT-BALL
600	5025011X24SM	2	BOLT, 5/16-18
620	5025045SM	2	NUT, 5/16-24 HEX NYLO
680	84008025	2	ROD, 5/16-24 RH & LH, BZ

Motion Control Group - Handles and Dampeners

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075



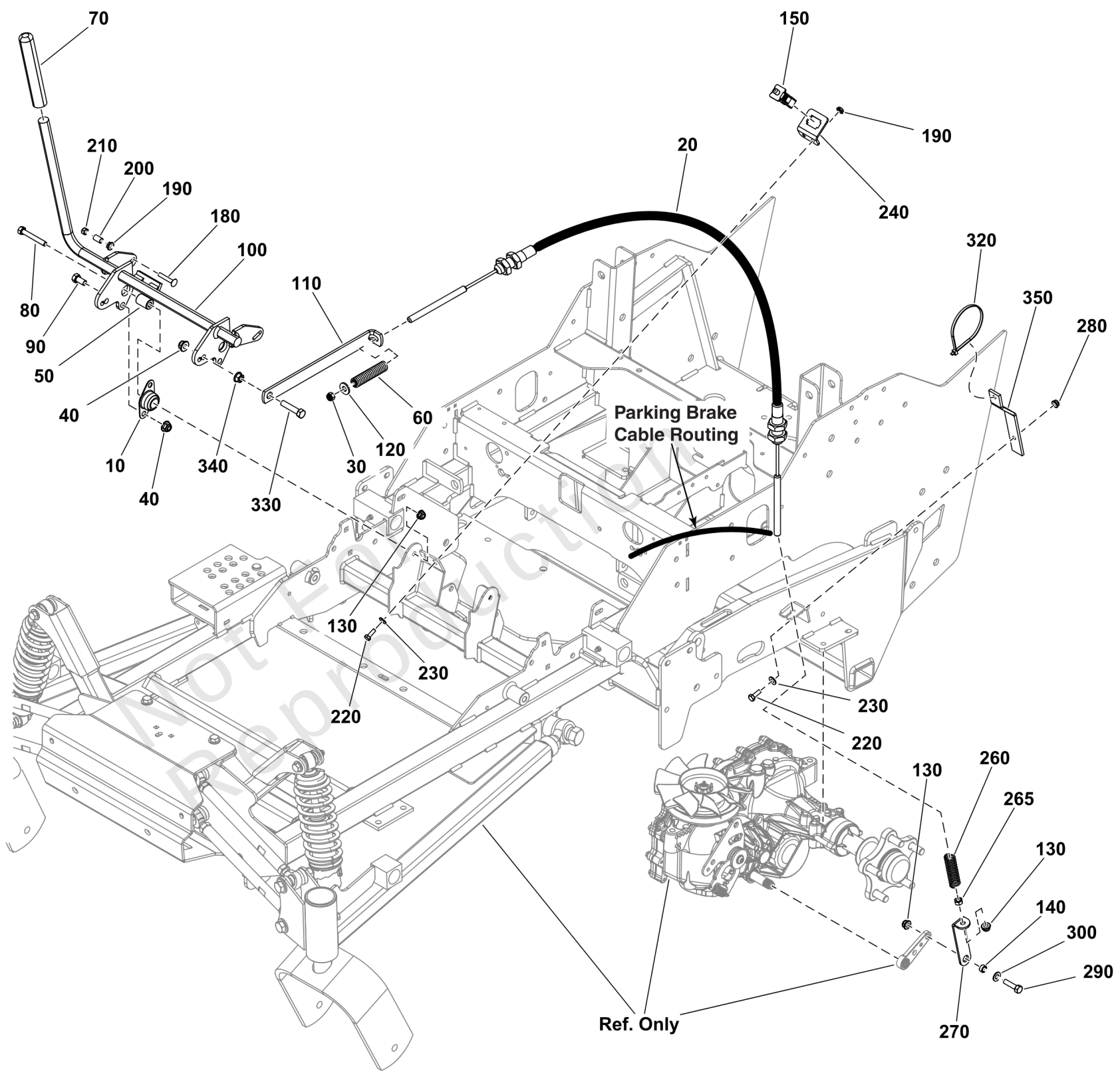
Motion Control Group - Handles and Dampeners

REF NO	PART NO	QTY	DESCRIPTION
20	5025055X14SM	2	BOLT, 5/16-18 X 1-3/4
30	5104722FS	2	GRIP
50	5021098SM	2	BEARING, BRONZE FLANG
60	5025013X14SM	4	BOLT, 3/8-16 X 1-3/4"
70	703350	4	WASHER
90	5021499SM	2	BEARING, FLANGE
100	5025055X10YP	10	BOLT, 5/16-18 X 1-1/4
110	5025096SM	8	NUT, 3/8-16 HEX NYLON
120	5025139SM	4	NUT, 5/16-18 HEX SERR
130	5025392FS	18	NUT
140	5025394SM	10	NUT, 3/8-16 HEX NYLOCK
160	5100940SM	2	DAMPNER, CONTROL
170	84004629	1	CONTROL, HANDLE
180	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	5025013X6SM	6	BOLT, 3/8-16 X 3/4" G
350	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
550	5101307SM	4	10MM BALL STUD, 5/16-
640	703354	4	SCREW, 5/16-18
650	5025156FS	4	WASHER
670	5413137AYP	1	BRACKET, HARNESS MOUNT, 2100 - BLK
840	5025145X8SM	4	BOLT, 5/16-18 X 1", C
860	5103106AYP	2	MOUNT, CONTROL ARM -
910	84008218	2	GUARD, RUBBER MOTION CONTROL
920	5025431SM	4	PUSH RIVET (TREE TYPE
930	5416170AYP	1	PLATE
940	5416171AYP	1	PLATE
950	5025011X6SM	2	BOLT, 5/16-18 X 3/4"

Parking Brake Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075



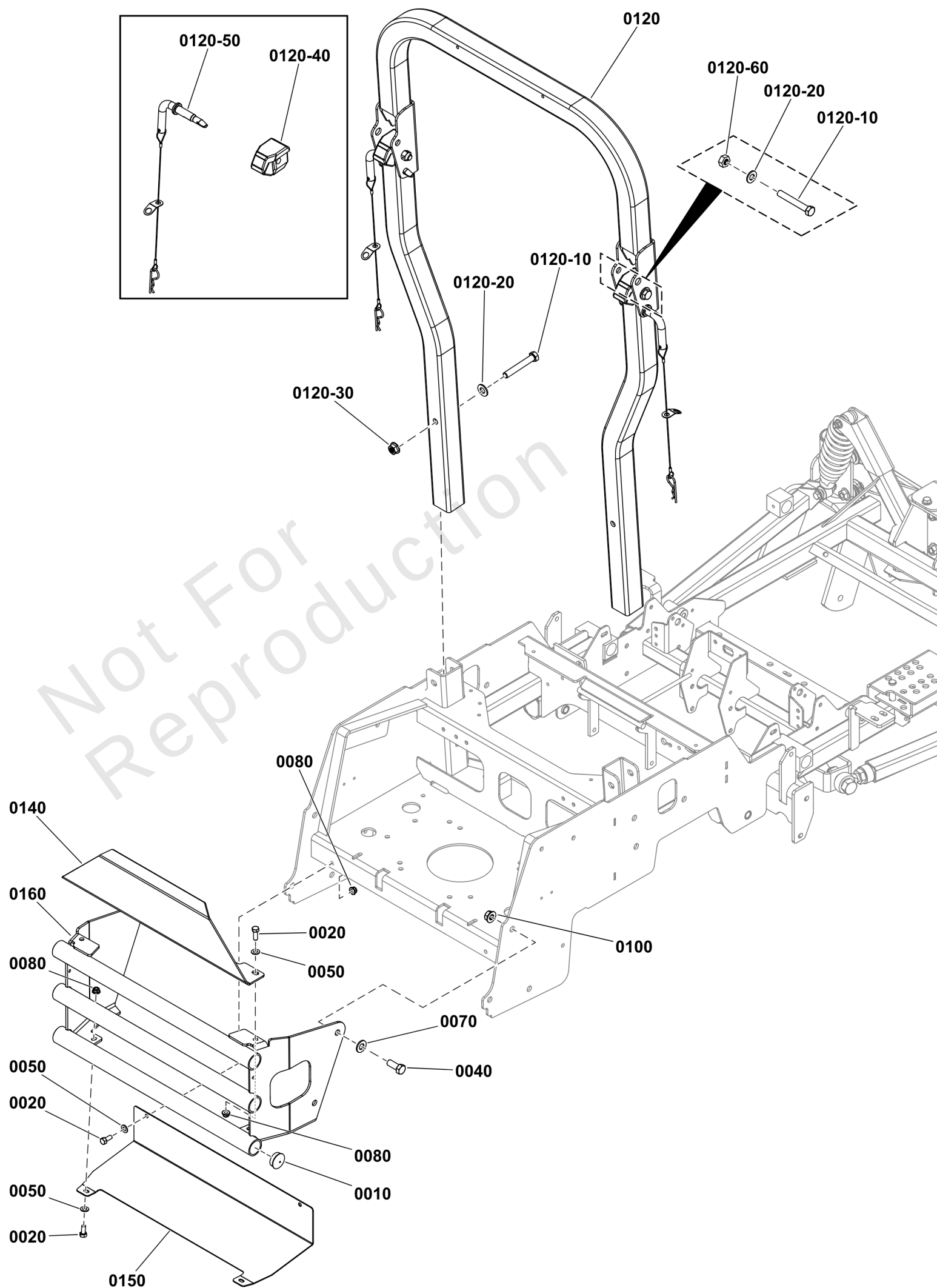
Parking Brake Group

REF NO	PART NO	QTY	DESCRIPTION
10	5021098SM	2	BEARING, BRONZE FLANG
20	5104276YP	2	CABLE,PARKING BRAKE
30	5025045SM	2	NUT, 5/16-24 HEX NYLO
40	5025394SM	6	NUT, 3/8-16 HEX NYLOCK
50	5042134SM	2	SPACER, .32 X .75 X 1
60	5023242SM	2	SPRING, CONTROL ROD
70	5101038SM	1	GRIP, FOAM
80	5025011X14SM	2	BOLT, 5/16-18 X 1-3/4
90	5025013X6SM	4	BOLT, 3/8-16 X 3/4" G
100	84008232	1	LINK, Lockout
110	84008138	2	LATCH, Parking Brake
120	5025337FS	2	WASHER
130	5025392FS	6	NUT
140	5102463YP	2	SPACER, .33 X .50X.25
150	7022886YP	1	SWITCH, DP NO/NC SNAP
180	704214	2	BOLT, 1/4-20 X 1.5
190	5025126FS	4	NUT
200	5041483YP	2	SPACER
210	5025095SM	2	NUT, 1/4-20 HEX NYLON
220	5025010X6SM	4	BOLT, 1/4-20 X 3/4" G
230	84007033	4	WASHER
240	5415932AYP	1	TAB
260	5021494SM	2	SPRING, COMPRESSION,
265	5025032SM	2	NUT, 5/16-18 HEX
270	5410294AYP	2	LINK, LOWER BRAKE
280	5025391FS	2	NUT
290	5025011X8FS	2	BOLT
300	703350	2	WASHER
320	5021029SM	2	TIE, Cable 11" Long
330	5025013X14SM	2	BOLT, 3/8-16 X 1-3/4"
340	5025128SM	2	NUT, 3/8-16 HEX SERRA
350	84008120	2	BRACKET

Rear Bumper and ROPS Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075



Rear Bumper and ROPS Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5023484SM	6	PLUG, PANEL, 1.25 - B
0020	5025011X8FS	6	BOLT
0040	5025017X10YP	4	BOLT, 1/2-13 X 1-1/4
0050	703350	6	WASHER
0070	5025158SM	4	WASHER, 1/2" SAE
0080	703115	6	NUT
0100	770225	4	NUT
0120	-----	1	ROLL BAR -(Refer to Note: *)
0120-10	5025017X24SM	4	BOLT, 1/2-13 X 3" GD5
0120-20	5025158SM	4	WASHER, 1/2" SAE
0120-30	5025332SM	2	NUT - SIDE LOCK
0120-40	5108027FS	2	STOP, BLOCK
0120-50	5108350FS	2	PIN
0120-60	5025332SM	2	NUT - SIDE LOCK
0140	5410486BFS	1	PLATE, CARBURETOR COVER
0150	5410485AYP	1	PLATE, HEAT SHIELD
0160	5410483BFS	1	BUMPER

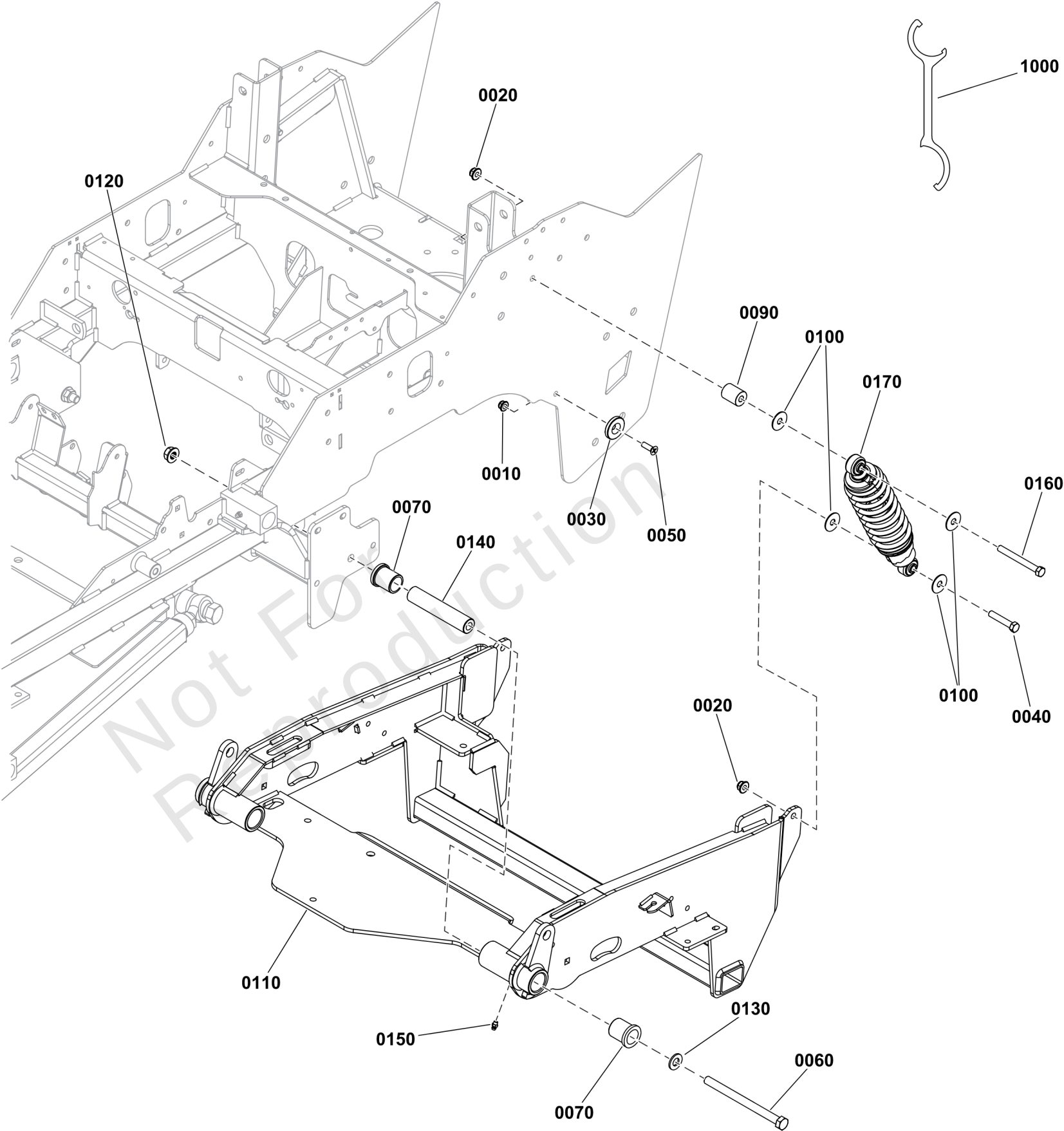
Footnotes:

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.

Rear Suspension Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075



Rear Suspension Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5025392FS	2	NUT
0020	5025394SM	4	NUT, 3/8-16 HEX NYLOCK
0030	5102701YP	2	SPACER
0040	703589	2	CAPSCREW, 3/8-16X2
0050	5025594YP	2	SCREW, 5/16-18 X 1
0060	5025488X52YP	2	BOLT
0070	5021541SM	4	BUSHING, FLANGE
0090	5103427YP	2	SPACER
0100	5025165SM	8	WASHER, 3/8" FENDER
0110	84008283	1	CRADLE, Suspension
0120	770225	2	NUT
0130	5025158SM	2	WASHER, 1/2" SAE
0140	5100194SM	2	SPACER, .52 X 1.00 X
0150	5020095SM	2	GREASE FITTING, 1/4-2
0160	5025013X28SM	2	BOLT, 3/8-16 X 3-1/2"
0170	84001902	2	ABSORBER, SHOCK
1000	84001903	1	WRENCH

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

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075

Seat Service Parts:

0070-10 - Back Cover, Seat

0070-15 - Cushion Cover, Seat

0070-20 - Set of Non-Adjust Arms

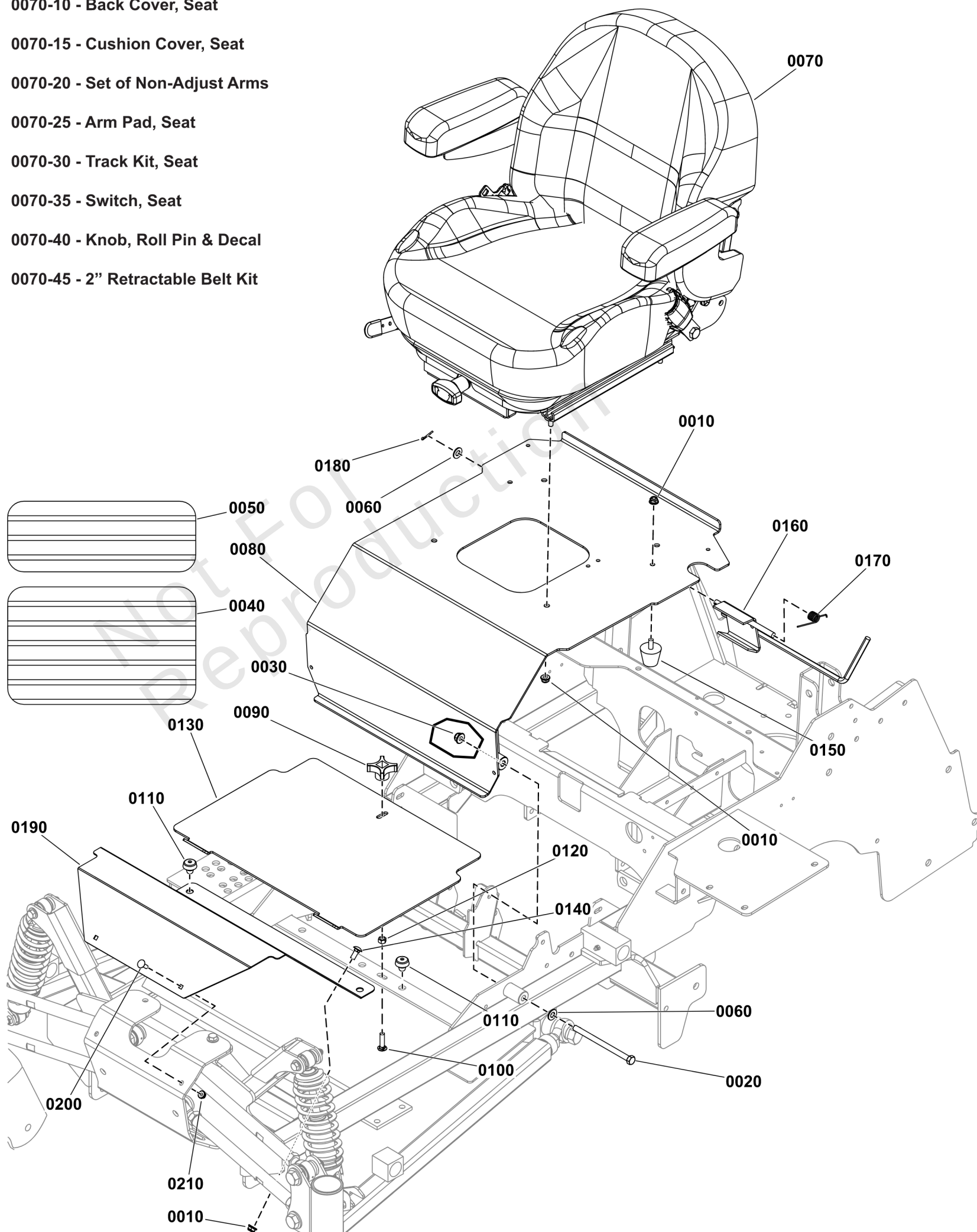
0070-25 - Arm Pad, Seat

0070-30 - Track Kit, Seat

0070-35 - Switch, Seat

0070-40 - Knob, Roll Pin & Decal

0070-45 - 2" Retractable Belt Kit



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

REF NO	PART NO	QTY	DESCRIPTION
0010	5025392FS	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	84006403	1	SEAT
0070-10	84005183	1	COVER, Back -(SV)
0070-15	84005184	1	CUSHION, Seat -(SV)
0070-20	5108520X5	1	SET OF NON-ADJUST ARMS -(SV)
0070-25	5106325X3	1	SET OF ARM PADS -(SV)
0070-30	5108520X1	1	TRACK KIT, SEAT -(SV)
0070-35	7023354YP	1	SWITCH, SEAT -(SV)
0070-40	84005187	1	KNOB, Adjuster -(SV)
0070-45	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	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

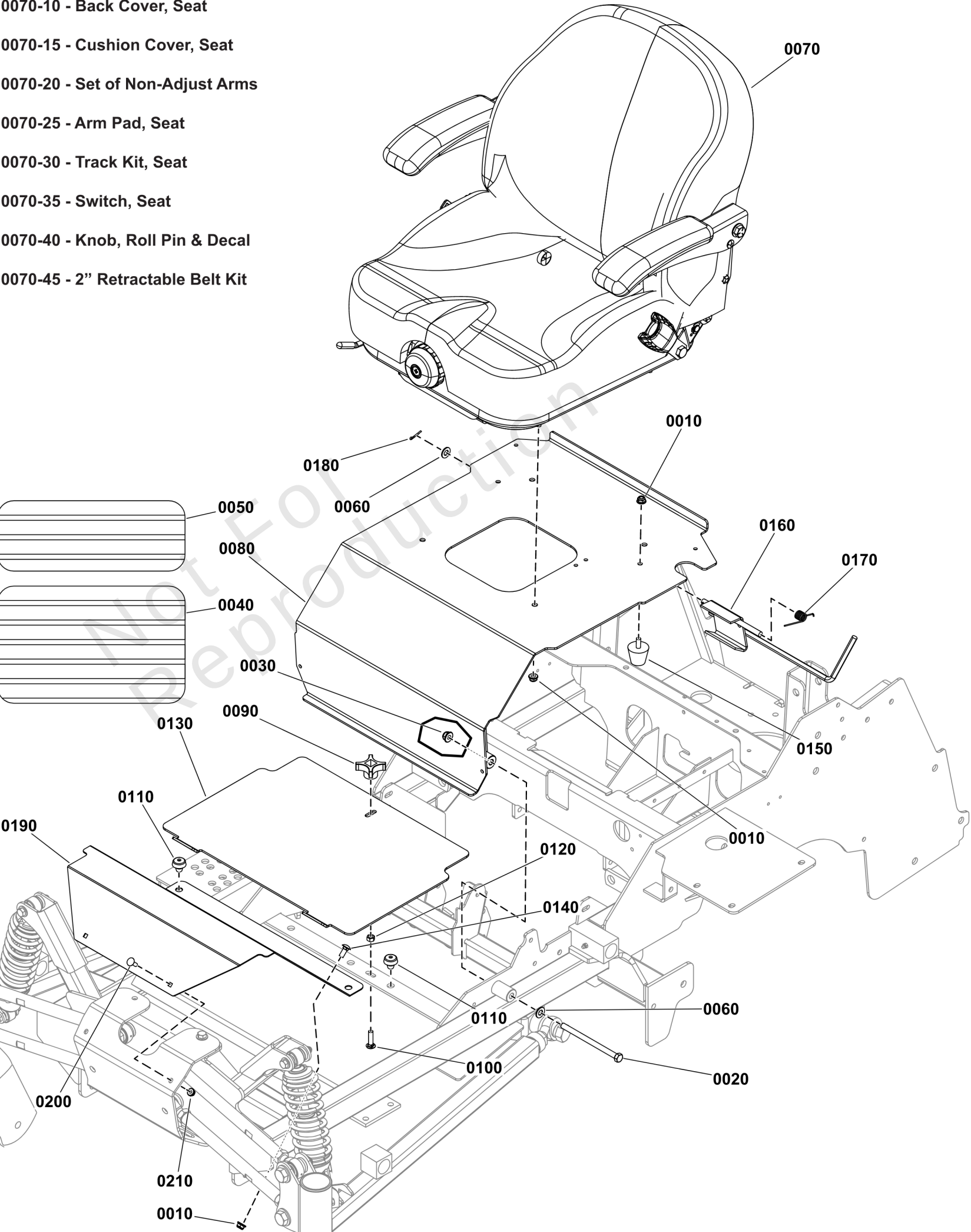
Seat Mount and Floor Group S/N: 4002328397 to 4002411631

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075

Seat Service Parts:

- 0070-10 - Back Cover, Seat
- 0070-15 - Cushion Cover, Seat
- 0070-20 - Set of Non-Adjust Arms
- 0070-25 - Arm Pad, Seat
- 0070-30 - Track Kit, Seat
- 0070-35 - Switch, Seat
- 0070-40 - Knob, Roll Pin & Decal
- 0070-45 - 2" Retractable Belt Kit



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

REF NO	PART NO	QTY	DESCRIPTION
0010	5025392FS	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	4	WASHER
0070	84010951	1	SEAT
0070-10	84011189	1	COVER, Seat Back
0070-15	84011187	1	CUSHION, Seat
0070-20	5102760X3YP	1	ARM REST, COMPANION
0070-25	5104741X2YP	1	PAD
0070-30	84003206	1	4" SINGLE LOCKING TRACKS BASE
0070-35	7023354YP	1	SWITCH, SEAT
0070-40	84003209	1	KNOB, Adjuster
0070-45	84003214	1	BELT, Seat
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: 5902075

Seat Service Parts:

0070-10 - Back Cover, Seat

0070-15 - Cushion Cover, Seat

0070-20 - Set of Non-Adjust Arms

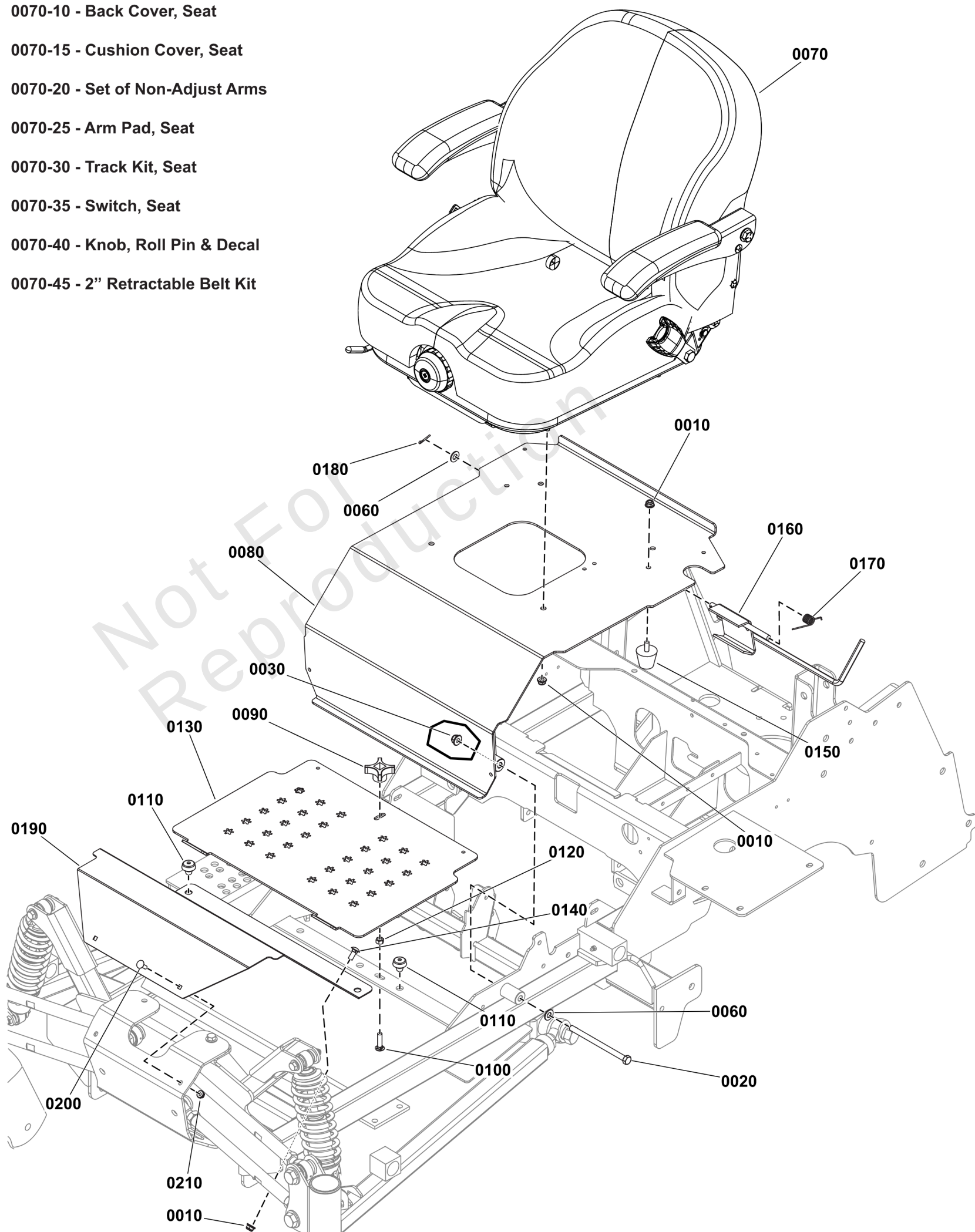
0070-25 - Arm Pad, Seat

0070-30 - Track Kit, Seat

0070-35 - Switch, Seat

0070-40 - Knob, Roll Pin & Decal

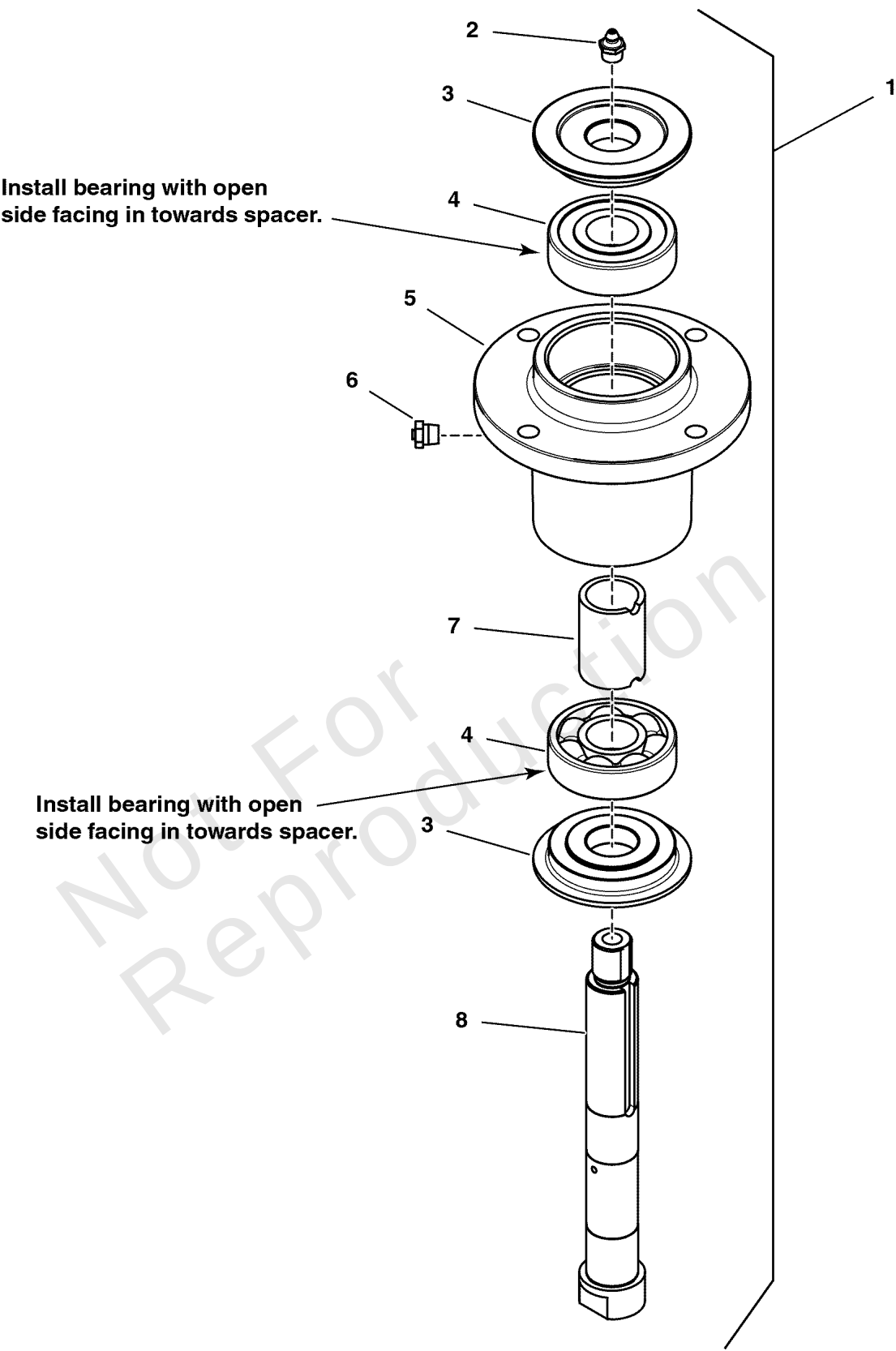
0070-45 - 2" Retractable Belt Kit



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	84010951	1	SEAT
0070-10	84011189	1	COVER, Seat Back
0070-15	84011187	1	CUSHION, Seat
0070-20	5102760X3YP	1	ARM REST, COMPANION
0070-25	5104741X2YP	1	PAD
0070-30	84003206	1	4" SINGLE LOCKING TRACKS BASE
0070-35	7023354YP	1	SWITCH, SEAT
0070-40	84003209	1	KNOB, Adjuster
0070-45	84003214	1	BELT, Seat
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

5061096



Spindle Service Parts - 5061096

REF NO	PART NO	QTY	DESCRIPTION
1	5061096	1	SPINDLE ASSM, ALUMINUM, LONG SHAFT -(*See Footnote)
2	5023329	1	FITTING, 1/8 NPT STR, SHORT -(SV)
3	5049793	2	TRASH SHIELD -(SV)
4	5023330	2	BEARING, .98 X 2.44 X .67 -(SV)
5	5061097	1	HOUSING, SPINDLE -(SV)
6	5023296	1	FITTING, RELIEF, 1-5 PSI -(SV)
7	5061099	1	SPACER, 1.00 X 1.25 X 1.75 -(SV)
8	5061100	1	SHAFT, SPINDLE -(SV)

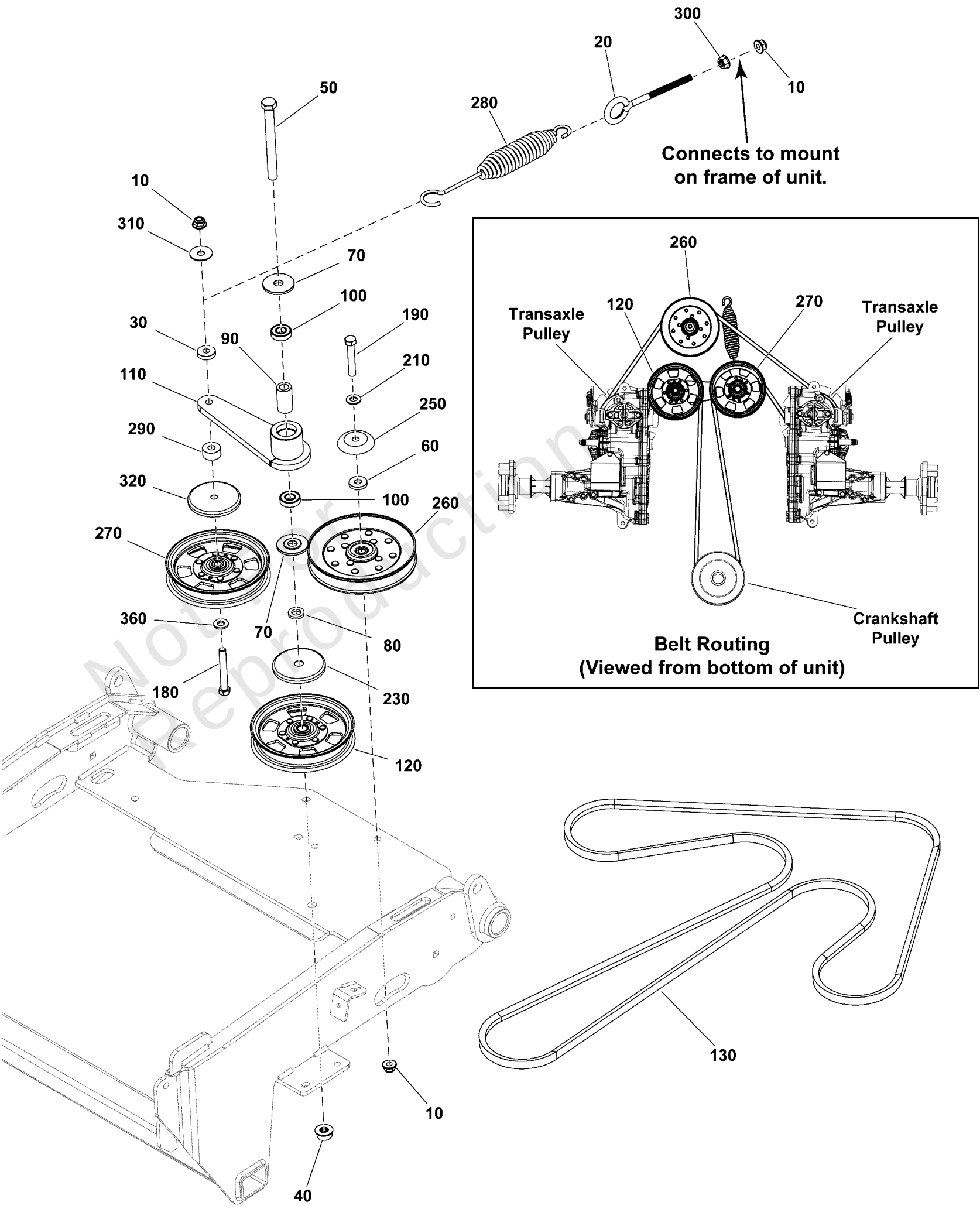
Not For
Reproduction

Footnotes:
(* Includes Items # 2 - 8)

Transaxle Drive Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075



Transaxle Drive Group

REF NO	PART NO	QTY	DESCRIPTION
10	5025394SM	3	NUT, 3/8-16 HEX NYLOCK
20	5021812SM	1	EYE BOLT, 3/8-16 X 4-
30	5044960SM	1	SPACER, .39 X 1.00 X
40	770225	1	NUT
50	5025017X40SM	1	BOLT, 1/2-13 X 5" GD5
60	5101965YP	1	SPACER
70	5103262YP	2	SPACER, IDLER ARM
80	5104239YP	1	SPACER
90	5103812YP	1	SPACER, .52 X .84 X 1
100	7078243YP	2	BEARING, BALL, AXLE
110	5412787AYP	1	ARM, PUMP DRIVE IDLER
120	5105101YP	1	PULLEY, IDLER
130	5103885YP	1	BELT, A-SEC, 117.24"
180	5025013X22SM	1	BOLT, 3/8-16 X 2-3/4"
190	5025013X18SM	1	BOLT, 3/8-16 X 2-1/4"
210	5025156FS	1	WASHER
230	5105145YP	1	SHIELD
250	5103787YP	1	SHIELD, BRNG PULLEY
260	5103792YP	1	PULLEY, IDLER-V
270	5105098YP	1	PULLEY, IDLER
280	5100632YP	1	SPRING, EXTENSION
290	5046860SM	1	SPACER
300	5025128SM	1	NUT, 3/8-16 HEX SERRA
310	5025165SM	1	WASHER, 3/8" FENDER
320	5105146YP	1	SHIELD
360	5025293SM	1	WASHER, 3/8"

Service Parts Schematic for Hydro-Gear® Transaxles:

ZY-GKEF-9T7B-11RX (84008697)

ZY-KKEF-9T7C-11RX (84008696)

For components not listed see your authorized Hydro-Gear® service provider.

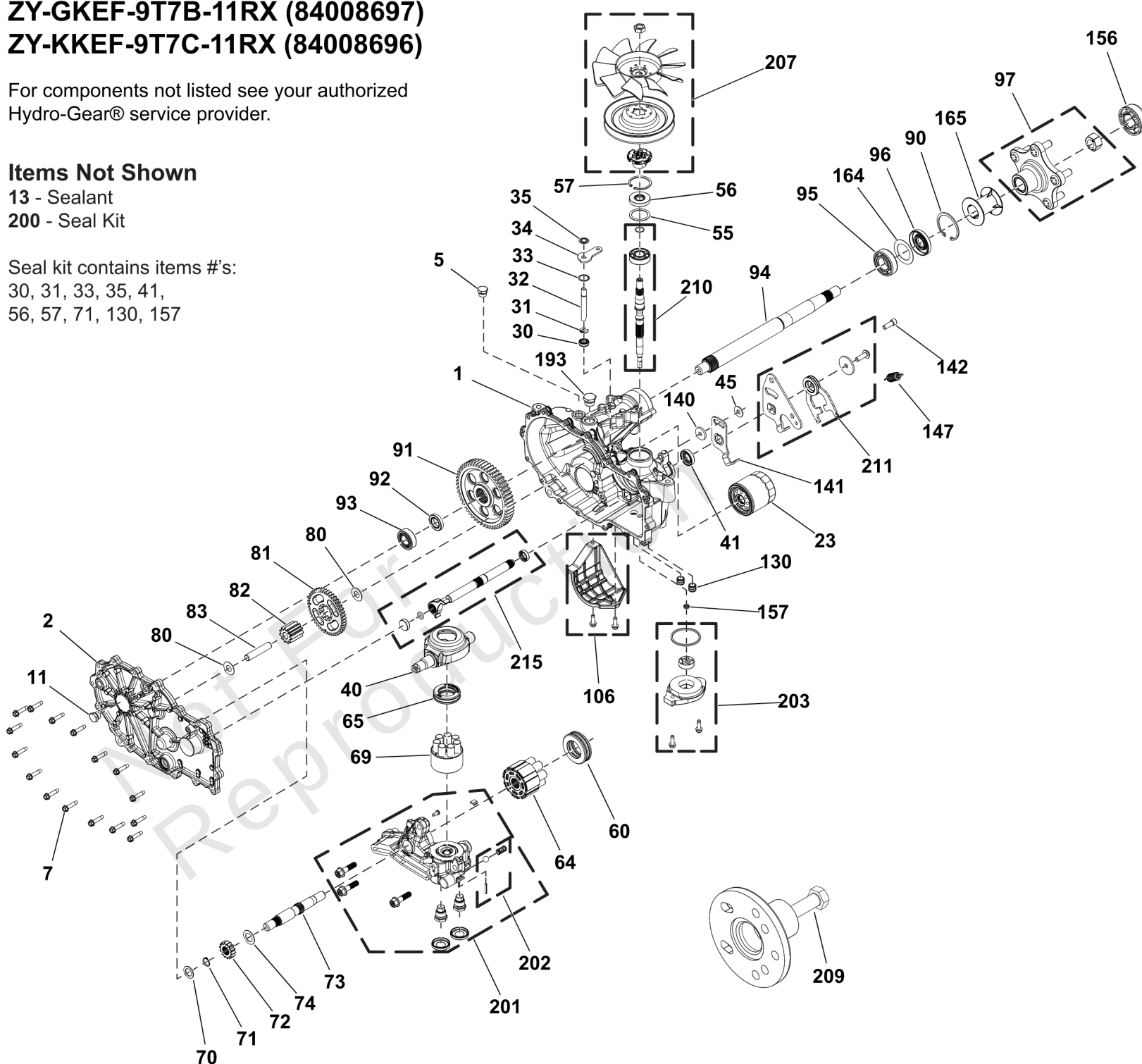
Items Not Shown

13 - Sealant

200 - Seal Kit

Seal kit contains items #'s:

30, 31, 33, 35, 41,
56, 57, 71, 130, 157



Transaxle Service Parts - 84008697 & 84008696

REF NO	PART NO	QTY	DESCRIPTION
84008697	84008697	1	TRANSAXLE
84008696	84008696	1	TRANSAXLE
1	-----	1	KIT, MAIN HOUSING LH, CHARGE, CONTROL
2	HG73257	1	KIT, COVER, SIDE LH
5	-----	1	PLUG EXTERNAL HEX VENT 9/16-18
7	-----	16	SCREW, HEX WASHER
11	-----	1	PLUG EXTERNAL HEX VENT 9/16-18
13	-----	1	TUBE, SEALANT
23	5101026X1SM	1	FILTER, OIL,
30	-----	1	SEAL, LIP .375 X .75 X .25
31	-----	1	BYPASS RETAINING RING 1
32	-----	1	ROD, BYPASS .375 X 2.88
33	-----	1	BYPASS RETAINING RING 2
34	-----	1	ARM, BYPASS
35	-----	1	RING, RETAINING .375 EXTERNAL
40	-----	1	SWASHPLATE, TRUNNION
41	5101026X2SM	1	SEAL, LIP
45	-----	1	WASHER, .34X.88X.06
55	1730272	1	SPACER (50951)
56	-----	1	SEAL, LIP 17 40 7 HNBR
57	5023415	1	Spacer
60	-----	1	BEARING, THRUST 35 x 62 x 18
64	-----	1	KIT, 16cc CYLINDER BLOCK ASSEMBLY STEAM TREAT
65	-----	1	BEARING, THRUST PLASTIC CAGE
69	-----	1	KIT, CYLINDER BLOCK (12cc)
70	-----	1	WASHER, .63 X 1.00 X .05 FLAT
71	1706130	1	RING-SNAP (44145)
72	-----	1	GEAR, 14T (STEEL)
73	-----	1	SHAFT, MOTOR
74	-----	1	WASHER, .71 X 1.16 X .04 FLAT
80	-----	2	WASHER, .51 X 1.00 X .03 FLAT
81	-----	1	GEAR, 45T
82	-----	1	GEAR, 11T (STEEL)
83	-----	1	PIN, JACKSHAFT
90	-----	1	RING, RETAINING 2.25 INTERNAL
91	-----	1	GEAR, 54T FORGED
92	-----	1	SPACER, .750 X 1.320 X .257
93	84009678	1	KIT, BEARING
94	HG56052	1	SHAFT, AXLE
95	5101026X5SM	1	BEARING, BALL, 1.0 X 52 X 15 OPEN 6205M
96	5103589X1YP	1	KIT, SEAL, LIP -
97	84003138	1	HUB
106	-----	1	KIT, FILTER GUARD
130	-----	2	TUBE, CHARGE TRIPLE O-RING
140	-----	1	SPACER, .320X1.005X.179
141	-----	1	ARM, NEUTRAL, LH
142	-----	1	SHCS, 5/16-24 X .875 (PATCH)
147	1735483SM	1	SPRING, Extension
156	5103589X7YP	1	AXLE CAP,
157	-----	1	KIT, GEROTOR SEAL
164	-----	1	WASHER, 1.355 x 2.035 x .021 FLAT

Service Parts Schematic for Hydro-Gear® Transaxles:

ZY-GKEF-9T7B-11RX (84008697)

ZY-KKEF-9T7C-11RX (84008696)

For components not listed see your authorized Hydro-Gear® service provider.

Items Not Shown

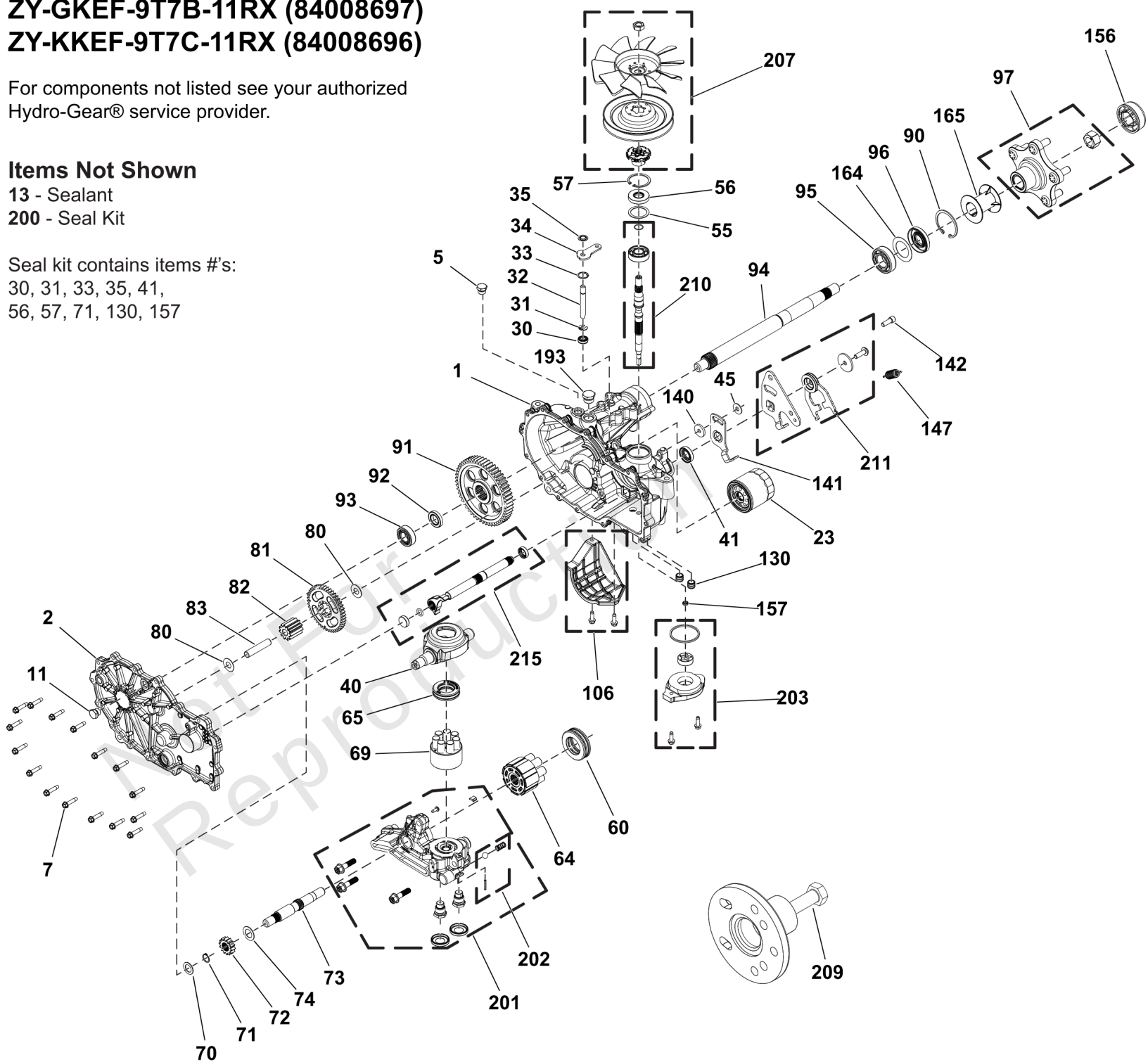
13 - Sealant

200 - Seal Kit

Seal kit contains items #'s:

30, 31, 33, 35, 41,

56, 57, 71, 130, 157



Transaxle Service Parts - 84008697 & 84008696

REF NO	PART NO	QTY	DESCRIPTION
165	5103589X9YP	1	DEBRIS GUARD HG #53496
193	-----	1	PLUG, 3/4-16
200	5103589X2YP	1	KIT, SEAL -
201	HG73301	1	KIT, CENTER SECTION, LH CHARGE
202	-----	1	KIT, CHARGE RELIEF
203	HG71977	1	KIT, CHARGE PUMP
207	5103589X3YP	1	KIT, FAN & PULLEY -
209	-----	1	KIT, HUB PULLER
210	5101026X9SM	1	KIT, INPUT SHAFT
211	1735490SM	1	ARM, Control Kit L.H.
215	-----	1	KIT, OUTBOARD, RH ROT B / LH ROT A

Service Parts Schematic for Hydro-Gear® Transaxles: ZS-GKEF-8T7B-11RX (5106647) ZS-KKEF-8T7C-11RX (5106646)

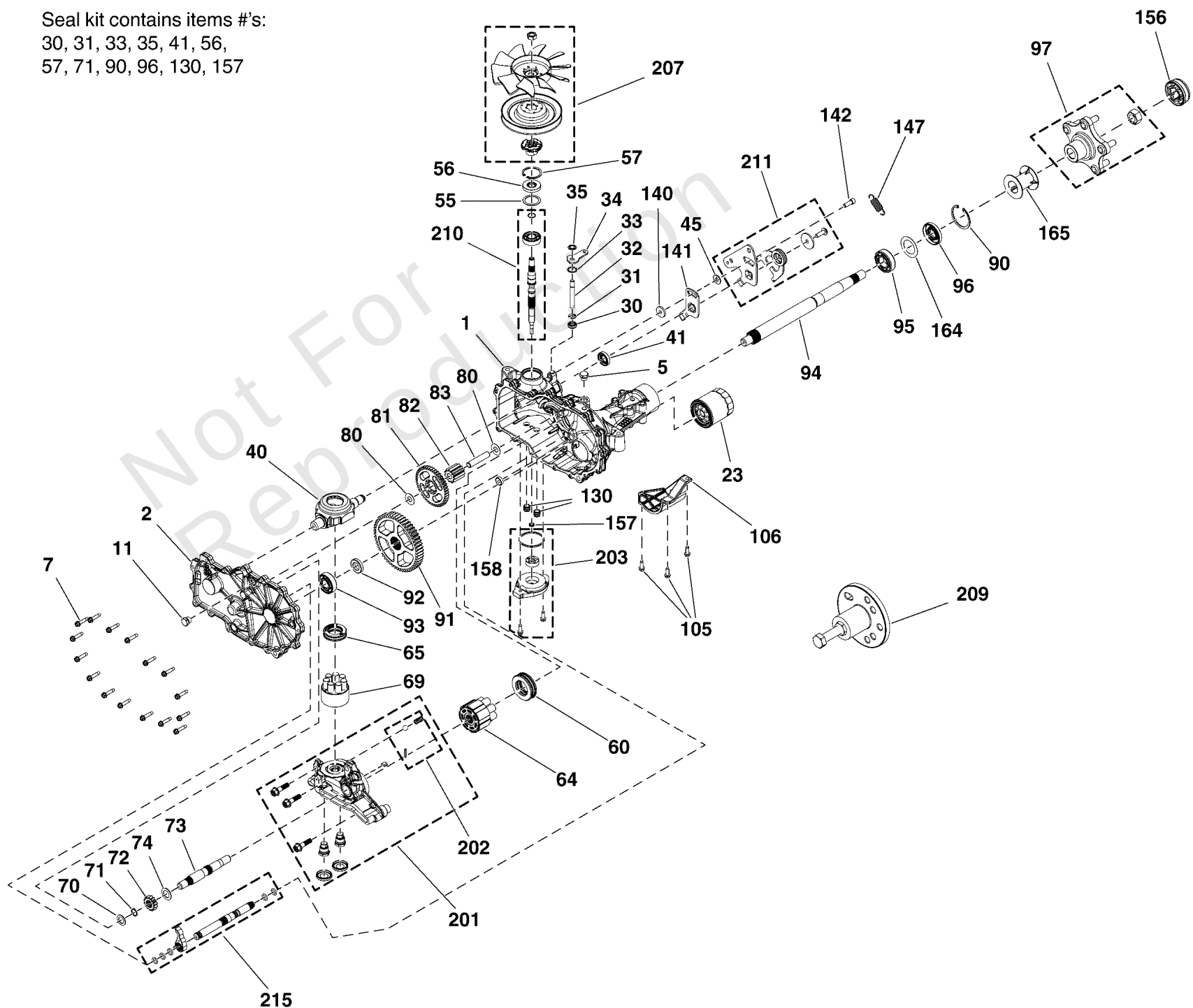
For components not listed see your authorized
Hydro-Gear® service provider.

Items Not Shown

- 13 - Sealant
- 14 - Oil, 20W50, 70.3 OZ
- 200 - Seal Kit

Seal kit contains items #'s:

- 30, 31, 33, 35, 41, 56,
- 57, 71, 90, 96, 130, 157



Transaxle SERVICE Parts - Hydro-Gear ZT3400 (84008005_84007998)

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	KIT, MAIN HOUSING, RH, CHARGE, CONTROL
2	-----	1	KIT, SIDE COVER RH
5	-----	1	PLUG EXTERNAL HEX VENT 9/16-18
7	-----	16	SCREW, HEX WASHER
11	-----	1	PLUG EXTERNAL HEX VENT 9/16-18
23	5101026X1	1	FILTER, OIL, ZT2800
30	5104471X1	1	SEAL, .375 X .750 X .25 LIP, H/G 51626
31	-----	1	BYPASS RETAINING RING 1
32	-----	1	ROD, BYPASS .375 X 2.88
33	-----	1	BYPASS RETAINING RING 2
34	-----	1	ARM, BYPASS
35	-----	1	RING, RETAINING .375 EXTERNAL
40	-----	1	SWASHPLATE, TRUNNION
41	5101026X2	1	SEAL, CONTROL ARM, 18X32X7, #51140
45	-----	1	WASHER, .34X.88X.06
55	1730272	1	SPACER (50951)
56	5022905X16	1	SEAL, Lip, .67 x 1.58 x .276
57	5101026X4	1	RING, RET 2.06 INT,
60	-----	1	BEARING, THRUST 35 x 62 x 18
64	-----	1	KIT, 16cc CYLINDER BLOCK ASSEMBLY STEAM TREAT
65	-----	1	BEARING, THRUST PLASTIC CAGE
69	-----	1	KIT, CYLINDER BLOCK (12cc)
70	-----	1	WASHER, .63 X 1.00 X .05 FLAT
71	1706130	1	RING-SNAP (44145)
72	-----	1	GEAR, 14T (STEEL)
73	-----	1	SHAFT, MOTOR
74	-----	1	WASHER, .71 X 1.16 X .04 FLAT
80	-----	2	WASHER, .51 X 1.00 X .03 FLAT
81	-----	1	GEAR, 45T
82	-----	1	GEAR, 11T (STEEL)
83	-----	1	PIN, JACKSHAFT
90	5101026X17	1	RING, RETAINING 2.25 INTERNAL (50859)
91	-----	1	GEAR, 54T
92	-----	1	SPACER, .750 X 1.320 X .257
93	5101026X18	1	KIT, BEARING (72749)
94	-----	1	SHAFT, AXLE
95	5101026X5	1	BEARING BALL, 1.0 X 52 X 15 OPEN 6205M
96	5103589X1	1	KIT, SEAL, AXLE - HG# 53699
97	5104580X6	1	HUB, ZT3400, 71691
105	-----	3	SCREW, HEX WASHER 1/4-20 X .75
106	-----	1	GUARD, FILTER, RH
130	-----	2	TUBE, CHARGE TRIPLE O-RING
140	-----	1	SPACER, .320X1.005X.179
141	-----	1	ARM, NEUTRAL RIGHT
142	-----	1	SHCS, 5/16-24 X .875 (PATCH)
147	1735483	1	SPRING, Extension (Used on Hydro-Gear P/N ZC-AHBB-2A7B-1DPX and ZC-AHBB-2A7B-1DPX)
156	5103589X7	1	AXLE CAP,
157	-----	1	KIT, GEROTOR SEAL
158	-----	1	MAGNET
164	-----	1	WASHER, 1.355 x 2.035 x .021 FLAT

Service Parts Schematic for Hydro-Gear® Transaxles: ZS-GKEF-8T7B-11RX (5106647) ZS-KKEF-8T7C-11RX (5106646)

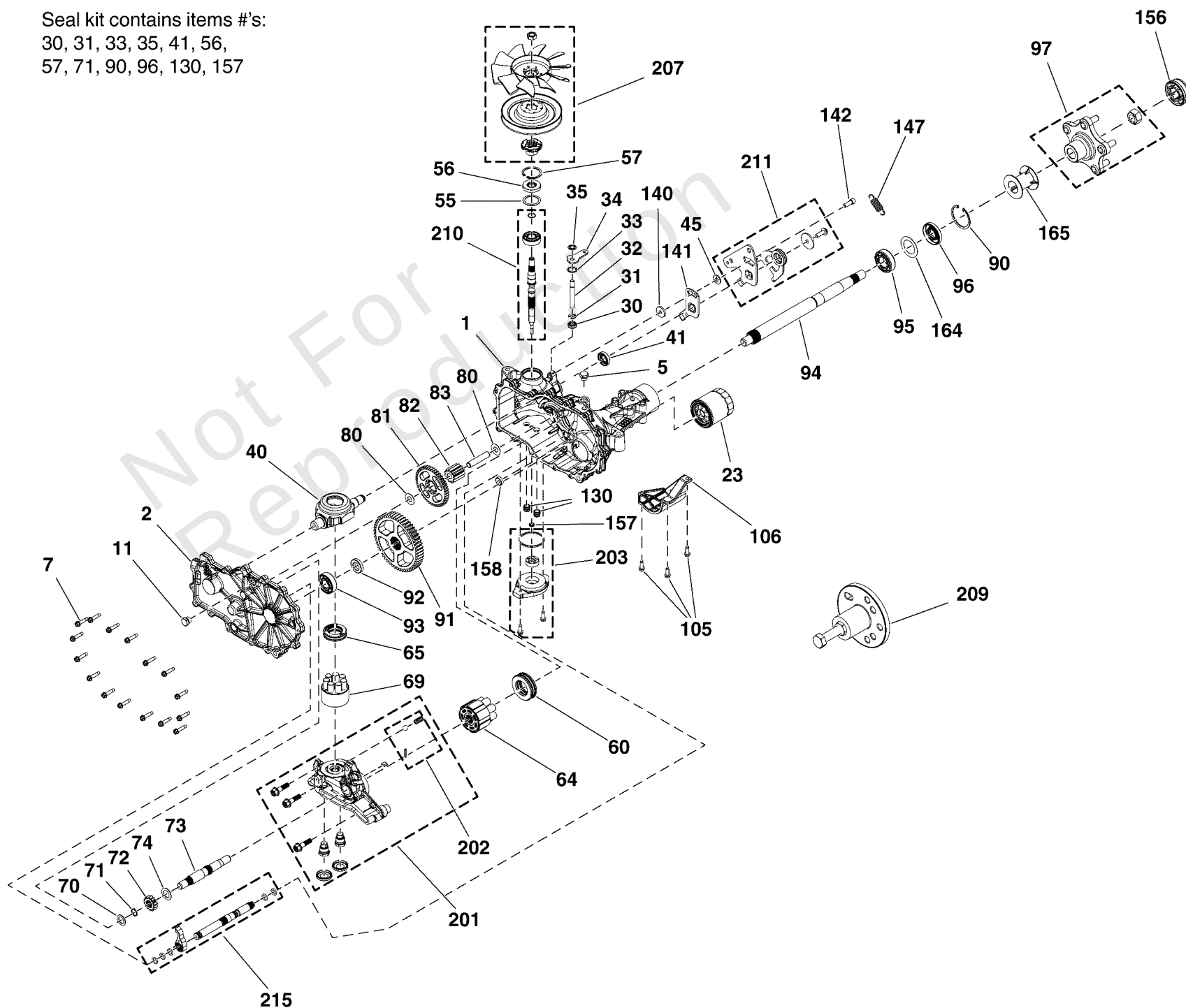
For components not listed see your authorized
Hydro-Gear® service provider.

Items Not Shown

- 13 - Sealant
- 14 - Oil, 20W50, 70.3 OZ
- 200 - Seal Kit

Seal kit contains items #'s:

- 30, 31, 33, 35, 41, 56,
- 57, 71, 90, 96, 130, 157



Transaxle SERVICE Parts - Hydro-Gear ZT3400 (84008005_84007998)

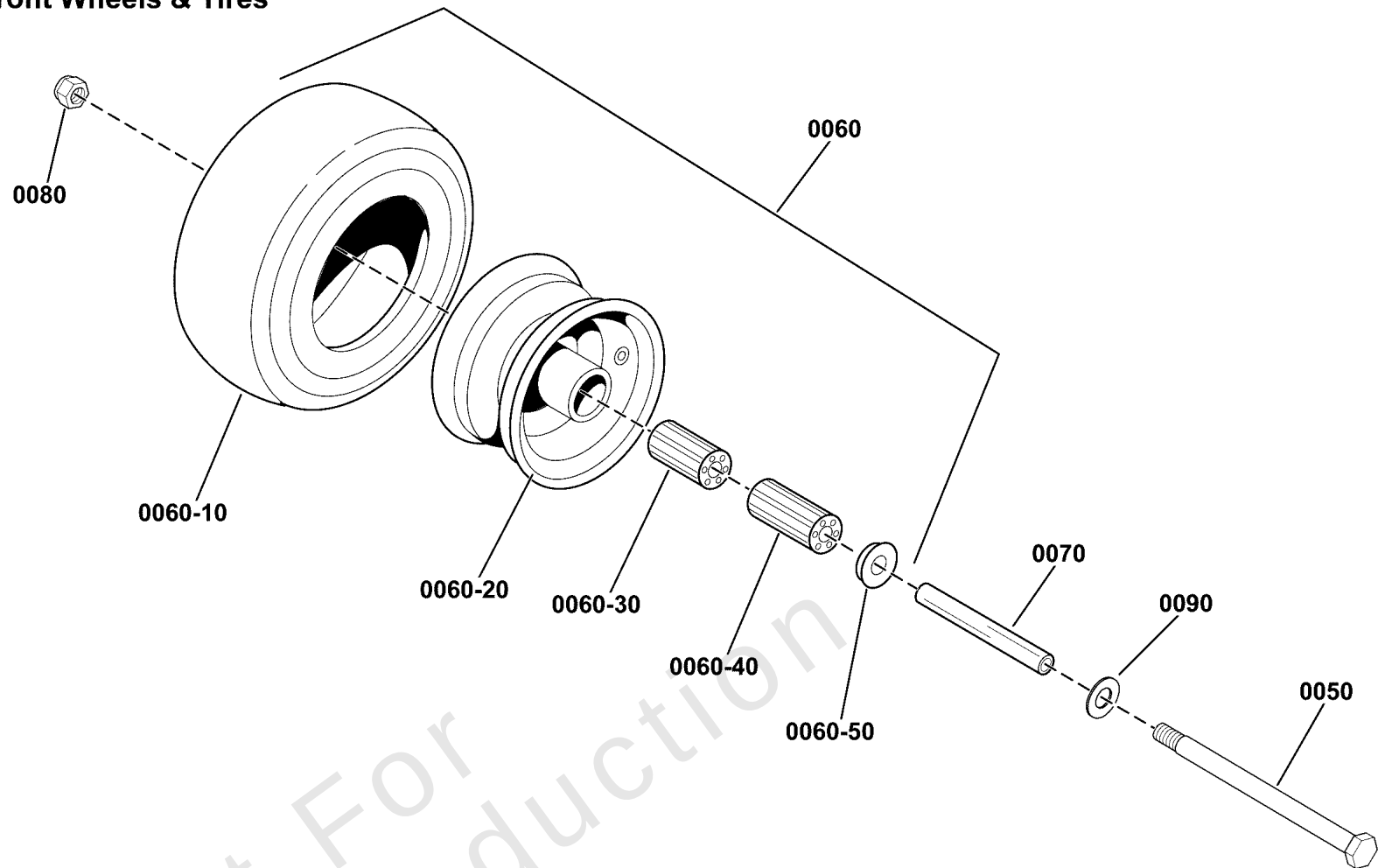
REF NO	PART NO	QTY	DESCRIPTION
165	5103589X9	1	DEBRIS GUARD HG #53496
200	5103589X2	1	KIT, SEAL - HG# 73239
201	-----	1	KIT, CENTER SECTION, RH CHARGE
202	-----	1	KIT, CHARGE RELIEF
203	5101026X12	1	KIT, CHARGE PUMP, ZT2800, ZT3100
207	5103589X3	1	KIT, FAN & PULLEY -
209	-----	1	KIT, HUB PULLER
210	5103589X4	1	KIT, INPUT SHAFT (BEARING AND SHAFT ONLY)
211	-----	1	KIT, RTN BIDIRECTIONAL
215	5104580X2	1	SEAL KIT BRAKE SHAFT ZT3400 LH 72753 NET

Wheel and Tire Group

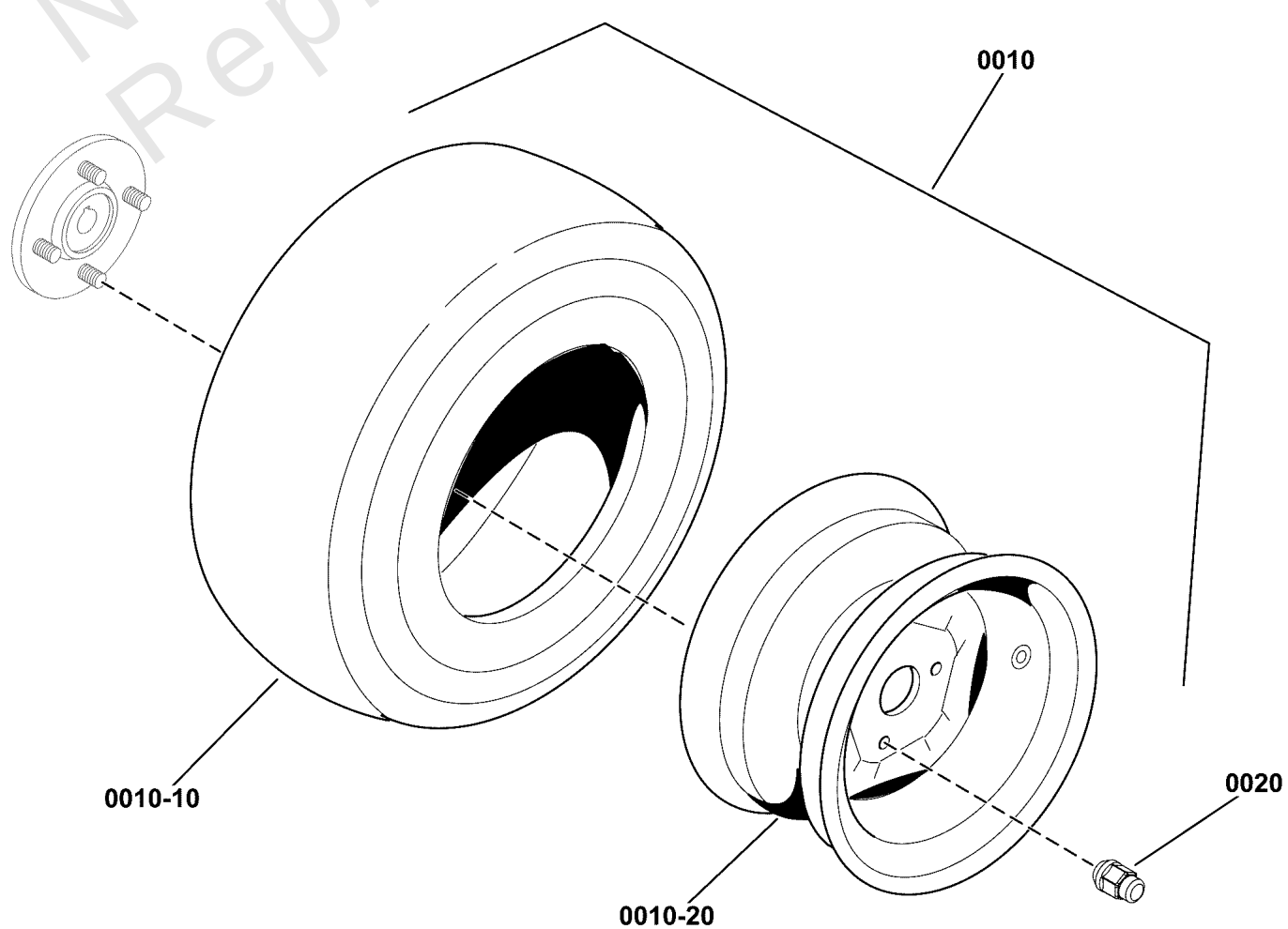
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902075

Front Wheels & Tires



Rear Wheels & Tires



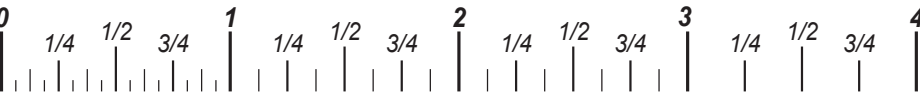
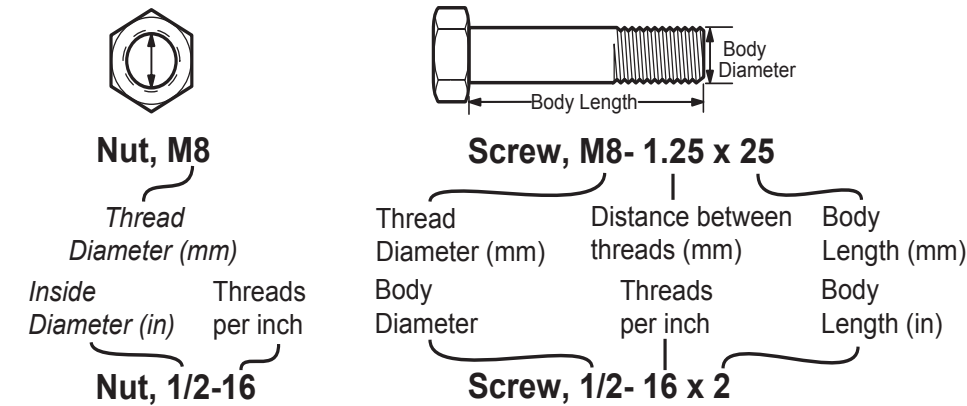
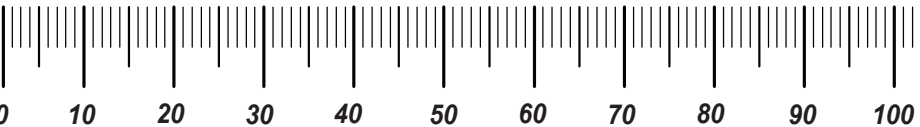
Wheel and Tire Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5109038FS	2	TIRE ASSEMBLY (23 x 10.5 - 12, TURF MASTER, Black Rim) -(S/N: 4002328396 and Below)
0010	84008799	2	TIRE ASSEMBLY (23 x 10.5 - 12 (K3012) Black Rim) -(S/N: 4002328397 and Above)
0010-10	84003895	2	TIRE (23 X 10.5 - 12) -(One per tire)(Tire only replacement for 5109038FS.)
0010-10	84003895	2	TIRE (23 X 10.5 - 12) -(One per tire)(Tire only replacement for 84008799.)
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).
0050	5025017X72YP	2	BOLT, 1/2-13 X 9 GD5
0060	5109055FS	2	TIRE ASSEMBLY
0060-10	5022577	2	TIRE, RUBBER ONLY -(One per tire)
0060-20	-----	2	WHEEL RIM
0060-30	84008029	2	BEARING -(One per tire)
0060-40	5021182	2	BEARING, ROLLER 3/4" ID X 3.25" (ONE PER TIRE)(SV) -(One per tire)
0060-50	5021043	4	RETAINER, BEARING (TWO PER TIRE)(SV)
0070	5106587	2	CASTER AXLE SHAFT, .51"ID X .75"OD X7.16
0080	5025396	2	NUT, Hex Flange, Nylock, 1/2-13
0090	5025158	2	WASHER, 1/2 SAE

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).

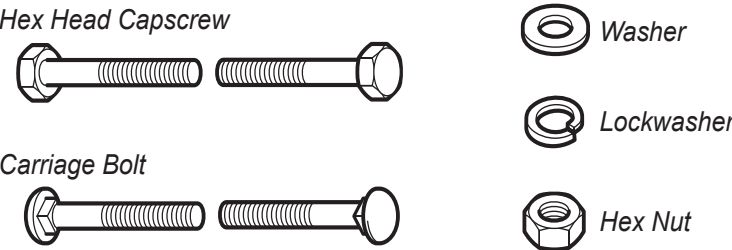
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

