



Parts Manual

Mfg. No: 5902011-P2000
P2000, Hurricane Series Ride-On Debris
Blower



5601318 - LED Headlight Kit.	
5109808 - Tire, Debris Blower Pavement Tire 20X8.00-8.	

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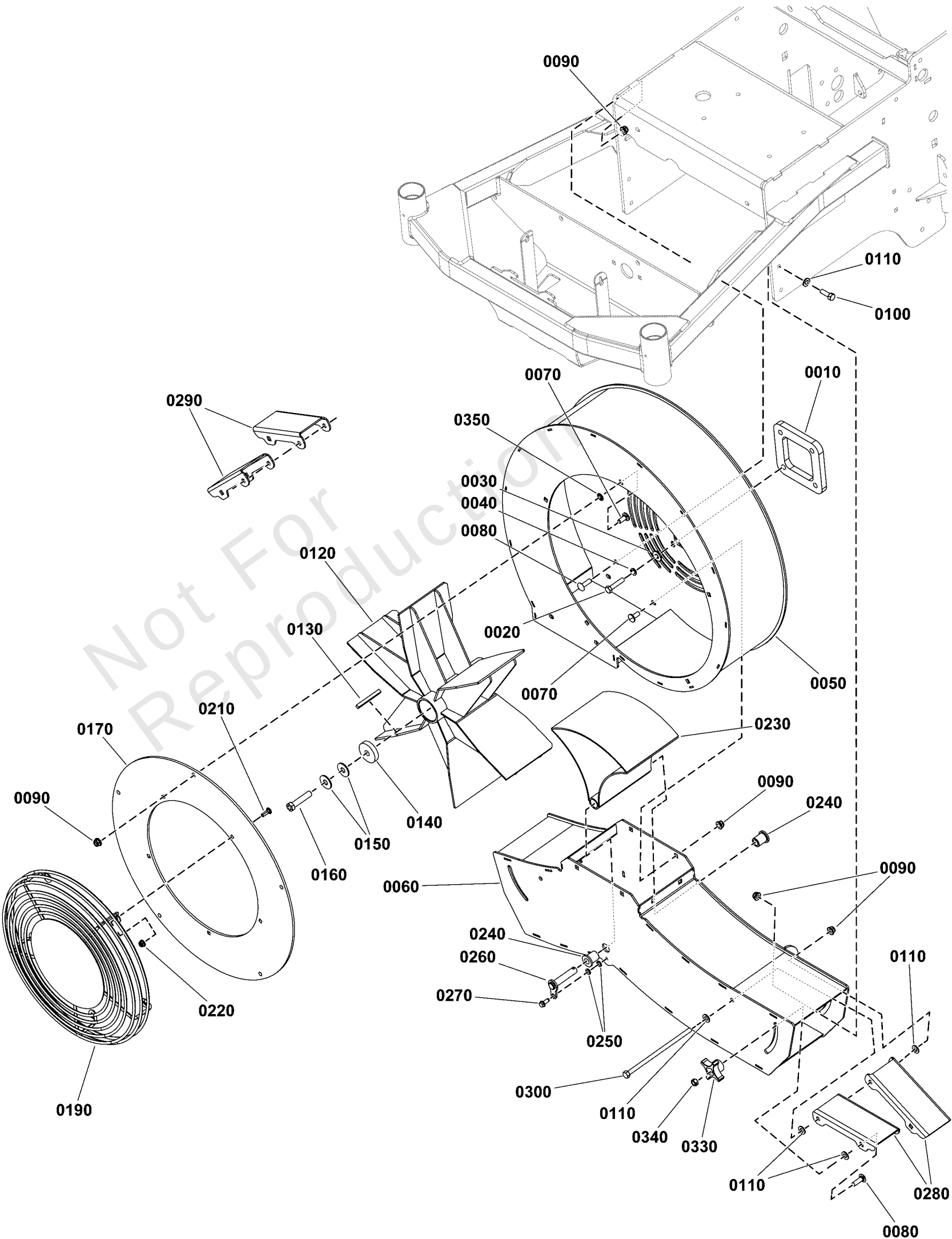
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Blower Group

Note: Unless noted otherwise, use the standard torque specifications

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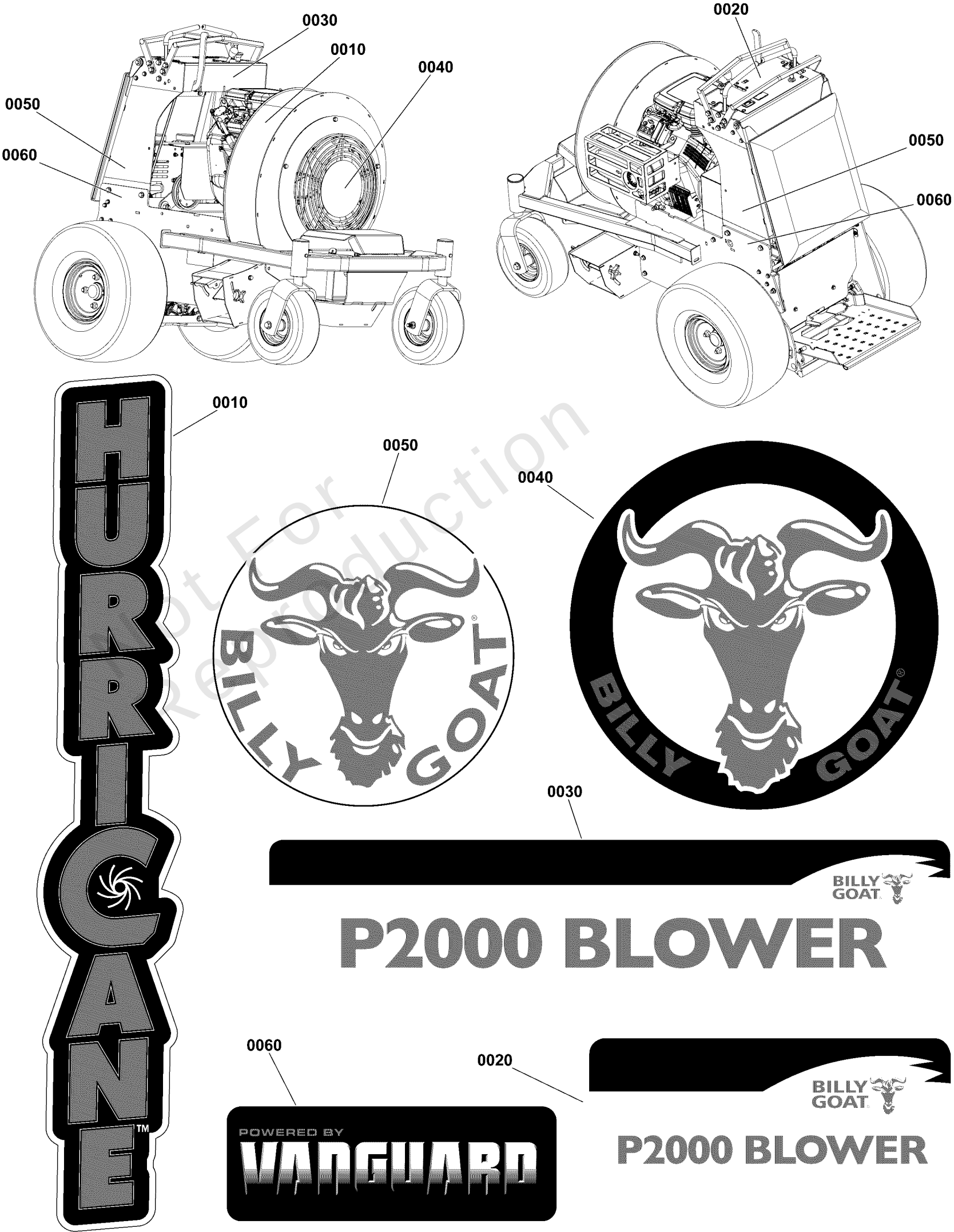
Blower Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5420587AA	1	SPACER, MOTOR PLATE, FB1000 - BLK
0020	5025025X12	4	BOLT-HEX, 5/16-24 X 1-1/2", GD8, PHOS
0030	5025337	4	WASHER, 5/16" USS
0040	5025170	4	WASHER, 5/16 LOCK YZ
0050	5420485AD	1	WELD, TOP, BLWR HSG, FB1000 - ORG
0060	5420480AD	1	WELD, BOTTOM, BLWR HSG, FB1000 - ORG
0070	-----	11	RHSSNB,5/16-18 X 3/4 GR5 ZINC/CLEAR
0080	80004565	6	BOLT,5/16-18X1.000,SHORT NECK CRRG,ZC/CL
0090	5025392	19	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0100	5025011X8	4	BOLT, 5/16-18 X 1" GRD5 YZ
0110	5025155	14	WASHER, 5/16" SAE
0120	5420582	1	WELD, IMPELLER, FB1000
0130	5050407X20	1	Key, 1/4" Sq. x 2-1/2"
0140	5106924	1	WASHER, IMPLR, 1-3/4OD X 7/16ID
0150	5025585	2	BELLEVILLE WASHER, 1.1875 X .442 X .098
0160	5025016X16	1	BOLT, 7/16-20 X 2
0170	5420490A	1	PLATE,FRONT COVER, BLWR, FB1000 - BLK
0190	440171A	1	GRILL WIRE FORCE - BLACK
0210	80003571	5	BOLT 1/4-20 X .75 GR2 CARRIAGE ZC
0220	5025391	5	NUT, 1/4-20 Hex Nylock Flange
0230	5420534AA	1	WELD, DEFLECTOR, FB1000 - BLK
0240	5106943	2	BUSHING, 1/2 X 3/4 X 1F (0117-081216)
0250	5025169	2	WASHER, 1/4" Lock
0260	5107337	1	WELD, FORWARD DEFLECTOR PIN, CZ
0270	80004190	1	SCREW, Hex Washer Head, Thread Roll, 1/4-20 x 5/8
0280	5420595AA	2	PLATE,LEFT DEFLECTOR, FB1000 - BLK
0290	5421429AA	2	PLATE,RIGHT DEFLECTOR, FB1000 - BLK
0300	5025011X56	2	BOLT, 5/16-18 x 7
0330	1670578	4	KNOB-INT THR .312-18 4-ARM 2.12WD 1.06LG
0340	80003675	4	NUT, 5/16-1/8, HEX, CNTR LK, ZINC PHOS/OIL
0350	-----	5	RETAINER,5/16X0.625,PUSHNUT,ZINC/CLEAR

Decal Group - Brand and Model

Note: Unless noted otherwise, use the standard torque specifications

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Decal Group - Brand and Model

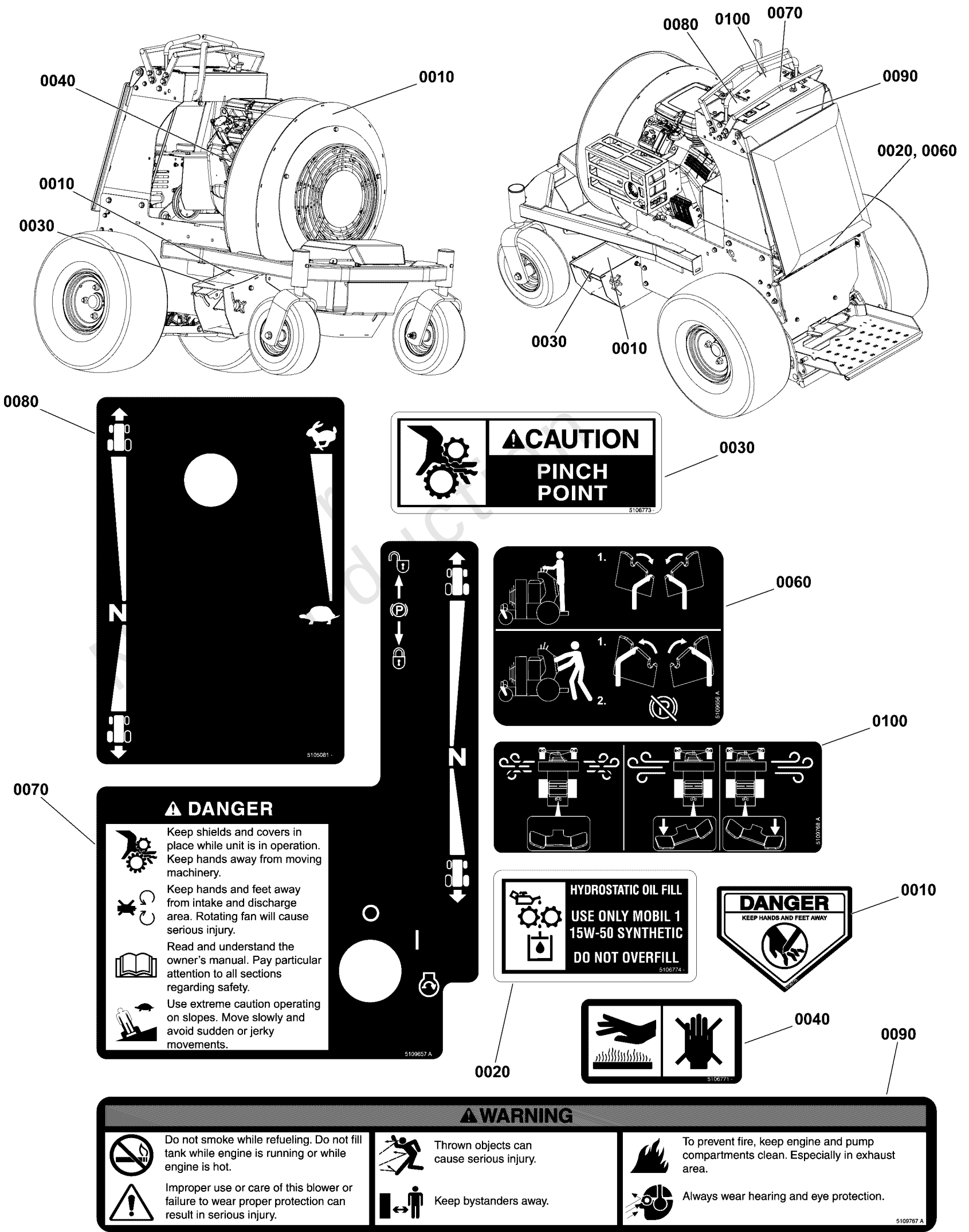
REF NO	PART NO	QTY	DESCRIPTION
0010	5109613	1	DECAL, P2 HURRICANE VERT
0020	5109615	1	DECAL, P2 CONSOLE
0030	5109614	1	DECAL, P2 BANNER
0040	5109616	1	DECAL, BILLY GOAT LOGO, 7.5
0050	5107557	2	LABEL, PRODUCT DECAL LG CIRCLE
0060	80082701	2	DECAL, POWERED BY VANGUARD

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Decal Group - Safety and Operation

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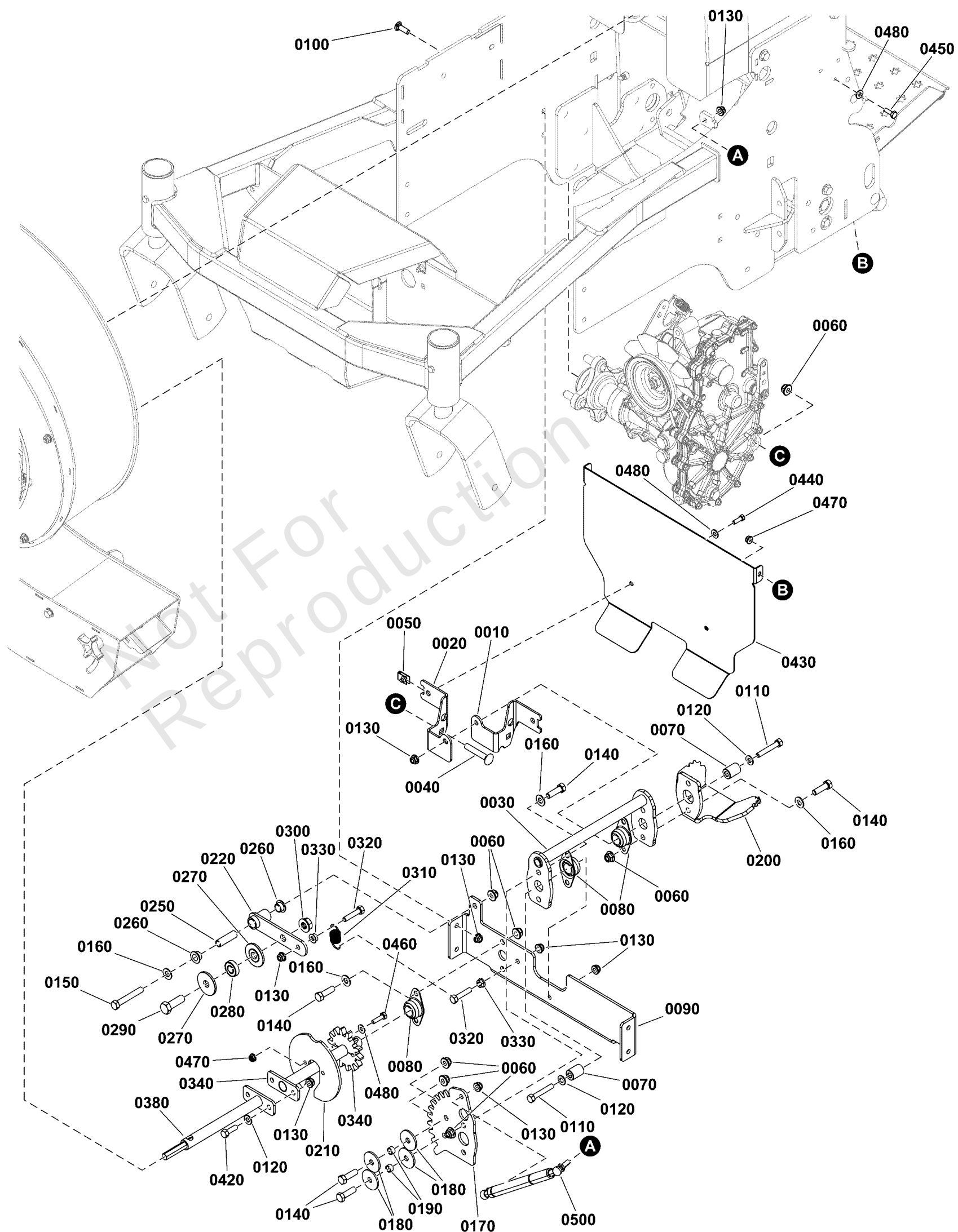
Decal Group - Safety and Operation

REF NO	PART NO	QTY	DESCRIPTION
0010	5106775	3	DECAL, DANGER
0020	5106774	1	DECAL, HYDRO -(Located on hydraulic tank mount beneath knee pad.)
0030	5106773	2	DECAL, PINCH
0040	5106771	1	DECAL, HOT -(Located on blower housing by engine manifold.)
0060	5109656	1	DECAL, TRANSAXLE BYPASS, P2 -(Located on hydraulic tank mount beneath knee pad.)
0070	5109657	1	DECAL, DASH PANEL, RH, WARNING/CONTROLS
0080	5105081	1	DECAL, DASH PANEL, LH, CONTROLS
0090	5109767	1	DECAL, WARNING, P2
0100	5109768	1	DECAL, DASH PANEL, FOOT CONTROL

Deflector Control Group

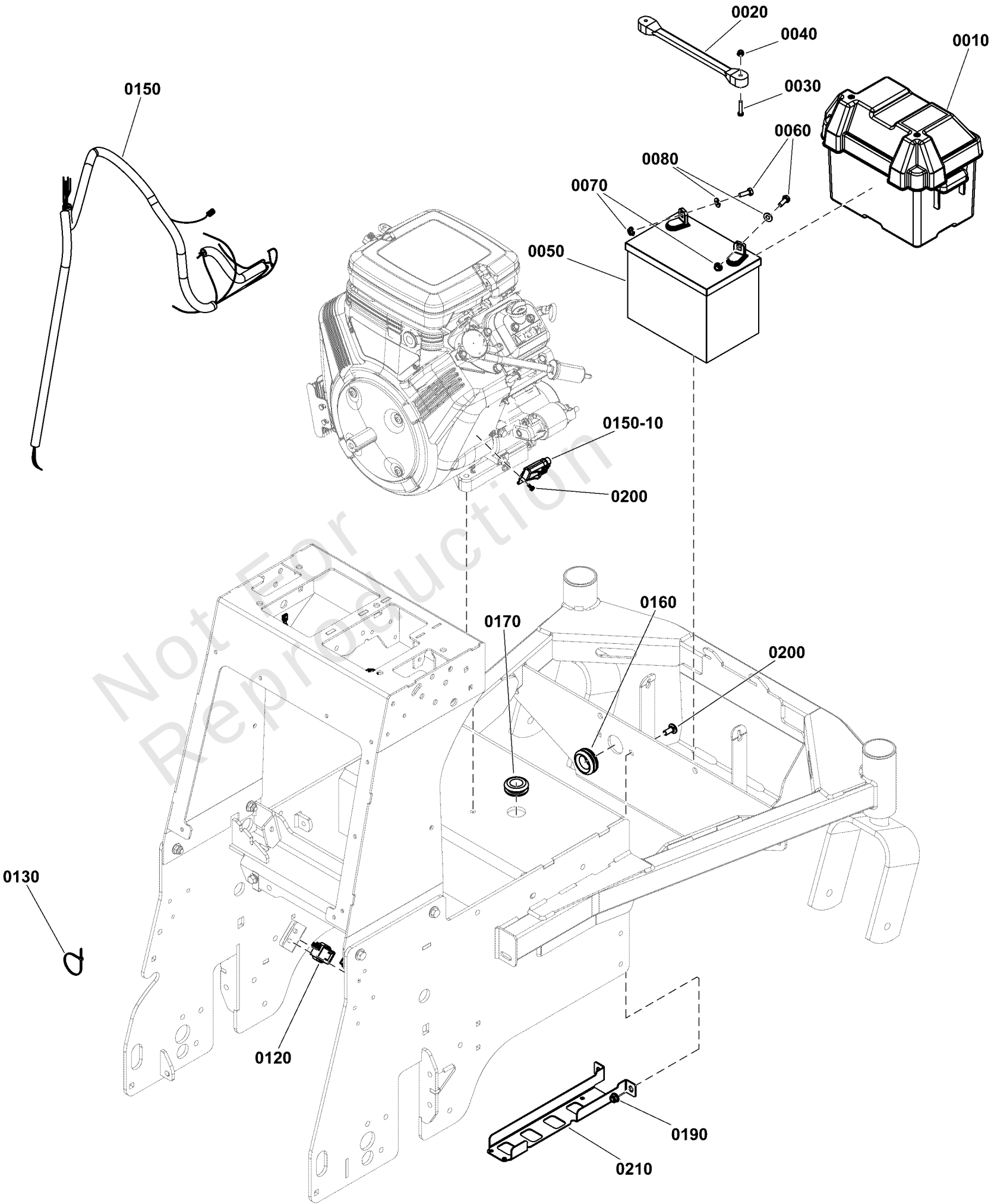
Note: Unless noted otherwise, use the standard torque specifications

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Deflector Control Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5421771AA	1	PLATE, TOE KICK MOUNT, LH ,FB1000 - BLK
0020	5421772AA	1	PLATE, TOE KICK MOUNT, RH, FB1000 - BLK
0030	5421775AA	1	WELD, FOOT DEFLECTOR SHAFT - BLK
0040	7900009	2	RHSSNB, 3/8-16 X 2-1/4, GR5
0050	5022665	2	BODY CLIP, 1/4-20 X 1/2" DEEP
0060	5025394	11	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0070	5042134	2	SPACER, .32 X .75 X 1.06, PM
0080	5021098	3	BEARING, BRONZE FLANGE, 3/4"
0090	5421674AA	1	PLATE, BRNG MOUNT, FB1000 - BLK
0100	5025145X8	4	BOLT, 5/16-18 X 1, CARRIAGE, GD5, CZ
0110	5025011X16	2	BOLT, 5/16-18 X 2" GD5 YZ
0120	5025155	4	WASHER, 5/16" SAE
0130	5025392	12	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0140	5025013X10	8	BOLT, 3/8-16 X 1-1/4" GD5 CZ
0150	5025013X20	1	BOLT, 3/8-16 X 2-1/2" GD5 CZ
0160	5025156	7	WASHER, 3/8 SAE
0170	5421533AA	1	PLATE, SPUR GEAR BIG, FB1000 - BLK
0180	5100548	4	WASHER, .390 X 1.50 X .109, YZ
0190	5041930	2	SPACER, .38 X .50 X .27, CZ
0200	5421774A	1	PLATE, FOOT PEDAL, FB1000 - BLK
0210	5421792AA	1	PLATE, GEAR & DETENT GUIDE, FB1000 - BLK
0220	5421658AA	1	WELD, FOOT DEFLECTOR ARM, FB1000 - BLK
0250	5107740	1	SPACER, .38 X .50 X 1.63, CZ
0260	5107741	2	BUSHING, IGUS, .50ID X .63OD X .38
0270	5103262	2	SPACER, IDLER ARM, 1/2, PM
0280	7078243	1	BEARING, BALL, AXLE
0290	5025017X12	1	BOLT, 1/2-13 X 1-1/2 GD5 CZ
0300	5025396	1	NUT, Hex Flange, Nylock, 1/2-13
0310	5010213	1	SPRING-EXT, .740 ODX2.025LGX.072WR, BLK
0320	5025011X12	2	BOLT, 5/16-18 X 1-1/2" GD5 YZ
0330	5025127	2	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
0340	5421791AA	1	WELD, DEFLECTOR CTRL, REAR,FB1000 - BLK
0380	5421790AA	1	WELD, DEFLECTOR CTRL, FRONT,FB1000 - BLK
0420	5025011X8	2	BOLT, 5/16-18 X 1" GRD5 YZ
0430	5420561A	1	PLATE, TOE KICK, FB1000 - BLK
0440	-----	2	HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR
0450	5025010X6	2	BOLT, 1/4"-20 X 3/4" GD5 YZ
0460	5025010X8	2	BOLT, 1/4-20 X 1" GD5 CZ
0470	5025391	4	NUT, 1/4-20 Hex Nylock Flange
0480	5025154	6	WASHER, 1/4 SAE
0500	5109913	1	DAMPENER, ANFAN, METAL ENDS



Electrical Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5100688	1	BATTERY BOX, W/ DRAIN HOLE
0020	5021670	1	STRAP, RUBBER
0030	5025270	2	MACHINE SCREW, Truss Head #10-24 x 1
0040	5025271	2	NUT, Hex, Nylon Lock, #10-24
0050	-----	1	BATTERY, 12 VOLT, 230 CCA
0060	5025010X6	2	BOLT, 1/4"-20 X 3/4" GD5 YZ
0070	5025126	2	NUT, Hex, Serrated Flange, 1/4-20
0080	5025154	2	WASHER, 1/4 SAE
0090	5105300	1	BATTERY CABLE, POS, 47, 1/4-5/16
0100	5050927X39	1	WIRE LOOM, 3/8 ID X 39 IN
0110	5045894	1	BATTERY CABLE, NEG, 35, 1/4-5/16
0120	5101589	1	SWITCH, PLUNGER, NO, SINGLE POLE, SNAP-IN
0130	5021030	9	TIE, SELF-LOCKING, 6"
0140	5025470	1	SCREW, SELF-TAP, #8-32 X 3/8. WASH HEX, CZ
0150	5109531	1	HARNESS, MAIN, FB1000/P2000
0150-10	5021603	1	FUSE, ATO-20 (20 AMP)(SV)
0160	5106788	1	GROMMET, RUBBER
0170	5103944	1	GROMMET, 7/8"ID, 1/4" THICK STK
0190	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0200	-----	2	RHSSNB,5/16-18 X 3/4 GR5 ZINC/CLEAR
0210	5421965A	1	PLATE, WIRE CHANNEL, FB1000 - BLK

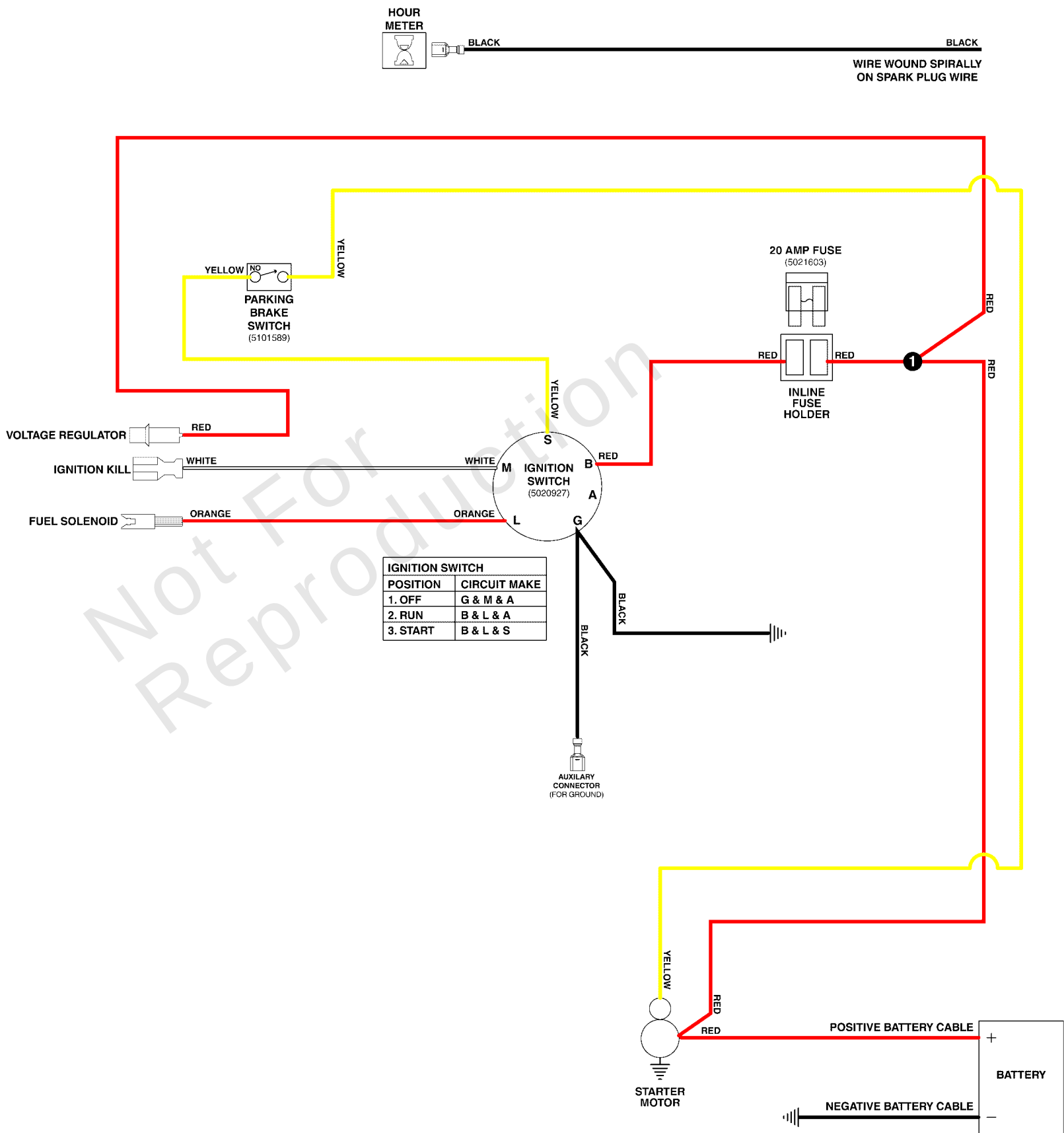
Electrical Schematic

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902011-P2000

5109531 MAIN WIRE HARNESS - BRIGGS & STRATTON 356447 ENGINES

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



Electrical Schematic

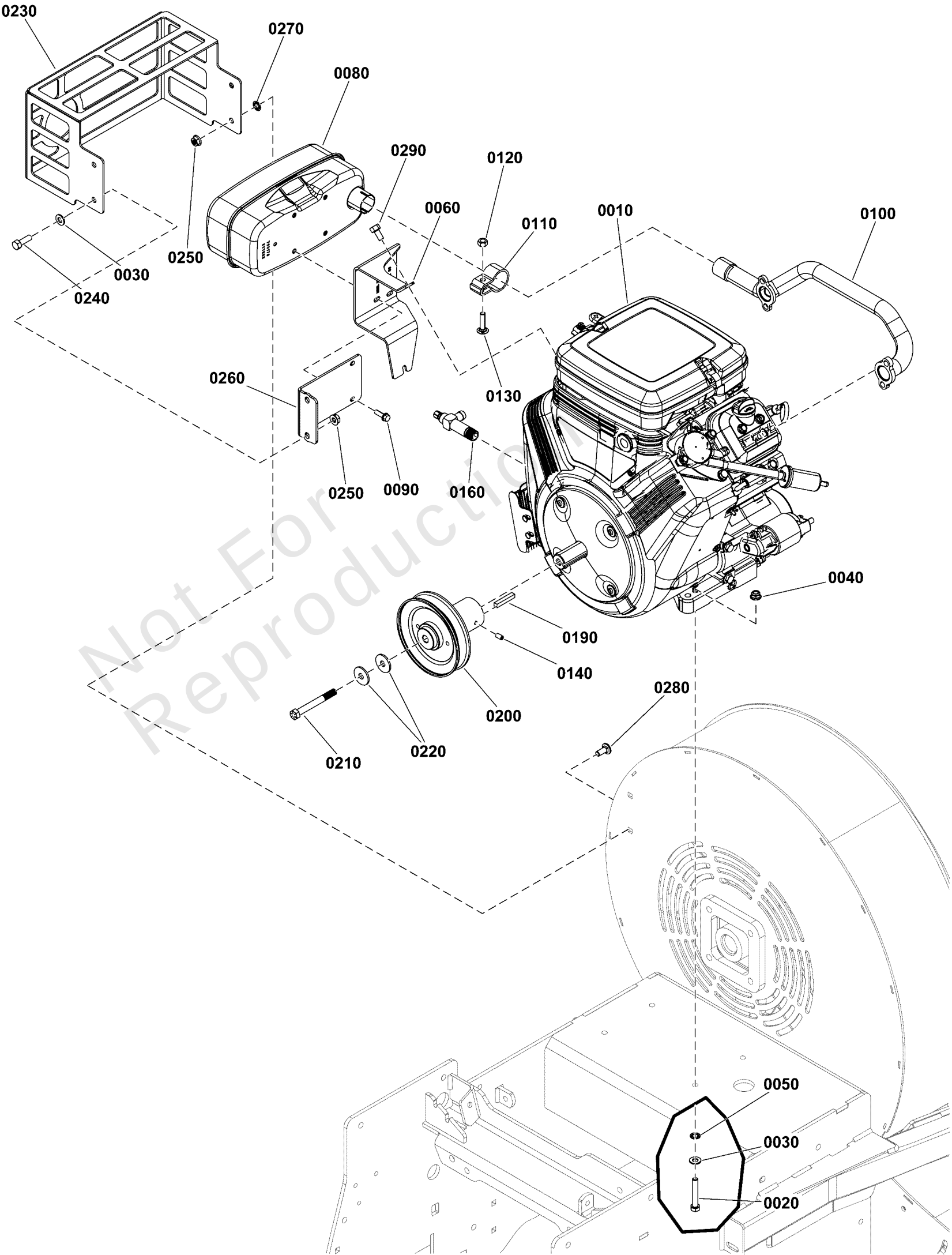
REF NO	PART NO	QTY	DESCRIPTION
5109531	5109531	1	HARNESS, MAIN, FB1000/P2000
5021603	5021603	1	FUSE, ATO-20 (20 AMP)(SV)
5101589	5101589	1	SWITCH, PLUNGER, NO, SINGLE POLE, SNAP-IN
5020927	5020927	1	SWITCH, IGNITION, 6 POST

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Engine Group

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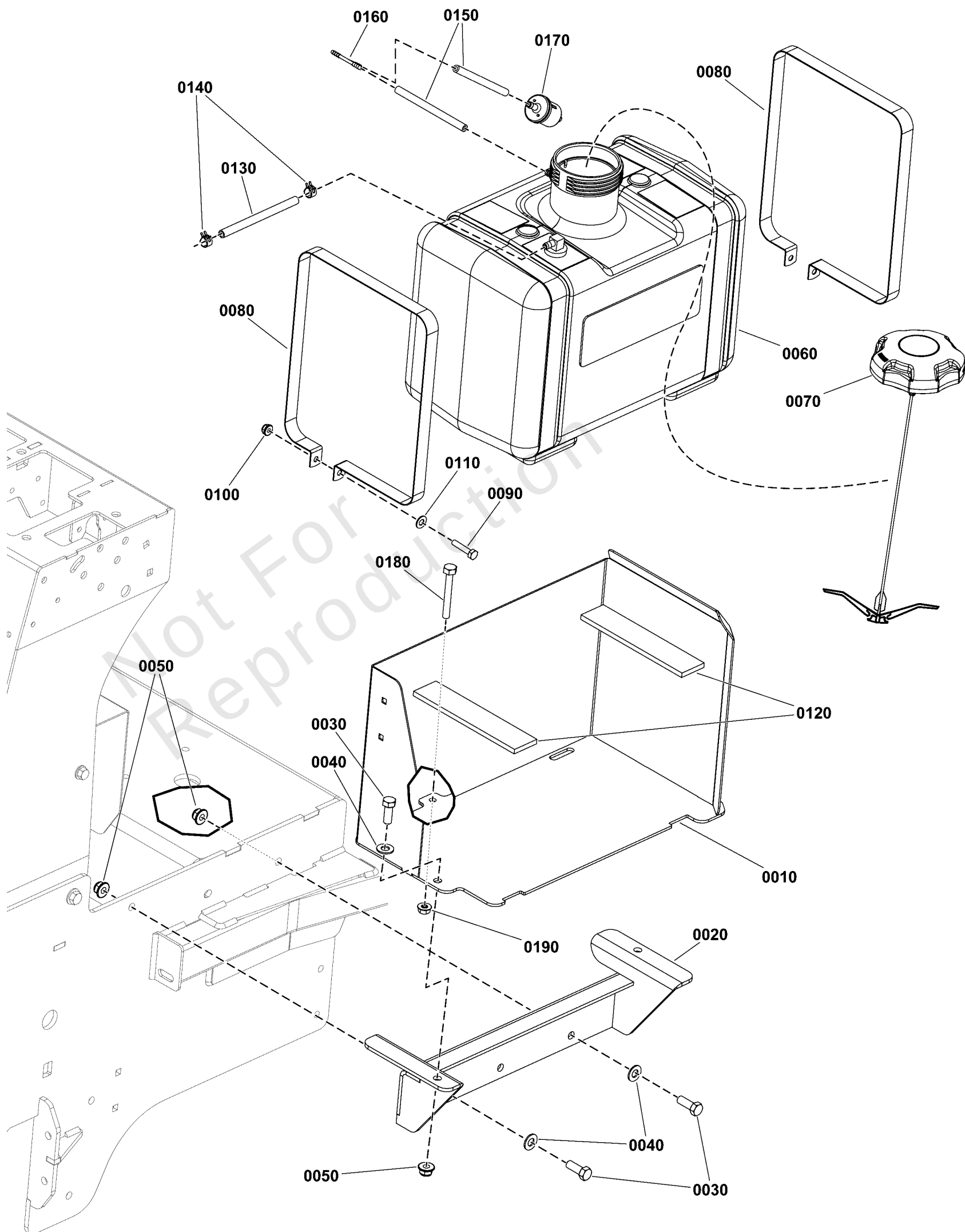
Engine Group

REF NO	PART NO	QTY	DESCRIPTION
0010	-----	1	ENGINE, 356447-3545-G1
0020	5025025X16	4	BOLT, 5/16-24 x 2" GD 8
0030	5025155	6	WASHER, 5/16" SAE
0040	5025616	4	NUT, 5/16-24, TOP LOCK FLANGE, GD8 PHOS
0050	5025188	4	WASHER, 5/16" Internal Tooth Lock
0060	-----	1	BRACKET, MUFFLER MTG
0080	-----	1	MUFFLER ASSY
0090	-----	2	SCREW, 1/4-20 X .750, Hex Washer Head TT, GR5, ZC/CL
0100	-----	1	MANIFOLD, EXHAUST
0110	-----	1	CLAMP, MUFFLER
0120	-----	1	NUT
0130	-----	1	BOLT, ROUND HEAD SQUARE NECK
0140	5107269	2	SET SCREW, 1/4-20 X 1/2, BLK
0160	5107284	1	VALVE, OIL DRAIN
0190	5022726	1	KEY 1/4 SQ X 1 1/2 LONG
0200	5109829	1	WELD, PULLEY, STUB SHAFT, FB1000
0210	5025694	1	BOLT, 3/8-24 X 3-1/4, GD8 PHOS
0220	5025693	2	WASHER, BELLEVILLE, 1.180 X .380 X .100
0230	5421920A	1	WELD, MUFFLER GUARD, FB1000 - BLK
0240	5025011X8	2	BOLT, 5/16-18 X 1" GRD5 YZ
0250	5025127	4	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
0260	5421452A	1	PLATE, MUFFLER GUARD MOUNT-BLK
0270	-----	2	RETAINER, 5/16X0.625, PUSHNUT, ZINC/CLEAR
0280	-----	2	RHSSNB, 5/16-18 X 3/4 GR5 ZINC/CLEAR
0290	5025494	1	BOLT, M8-1.25 X 16MM GD8.8

Fuel Tank and Mount Group

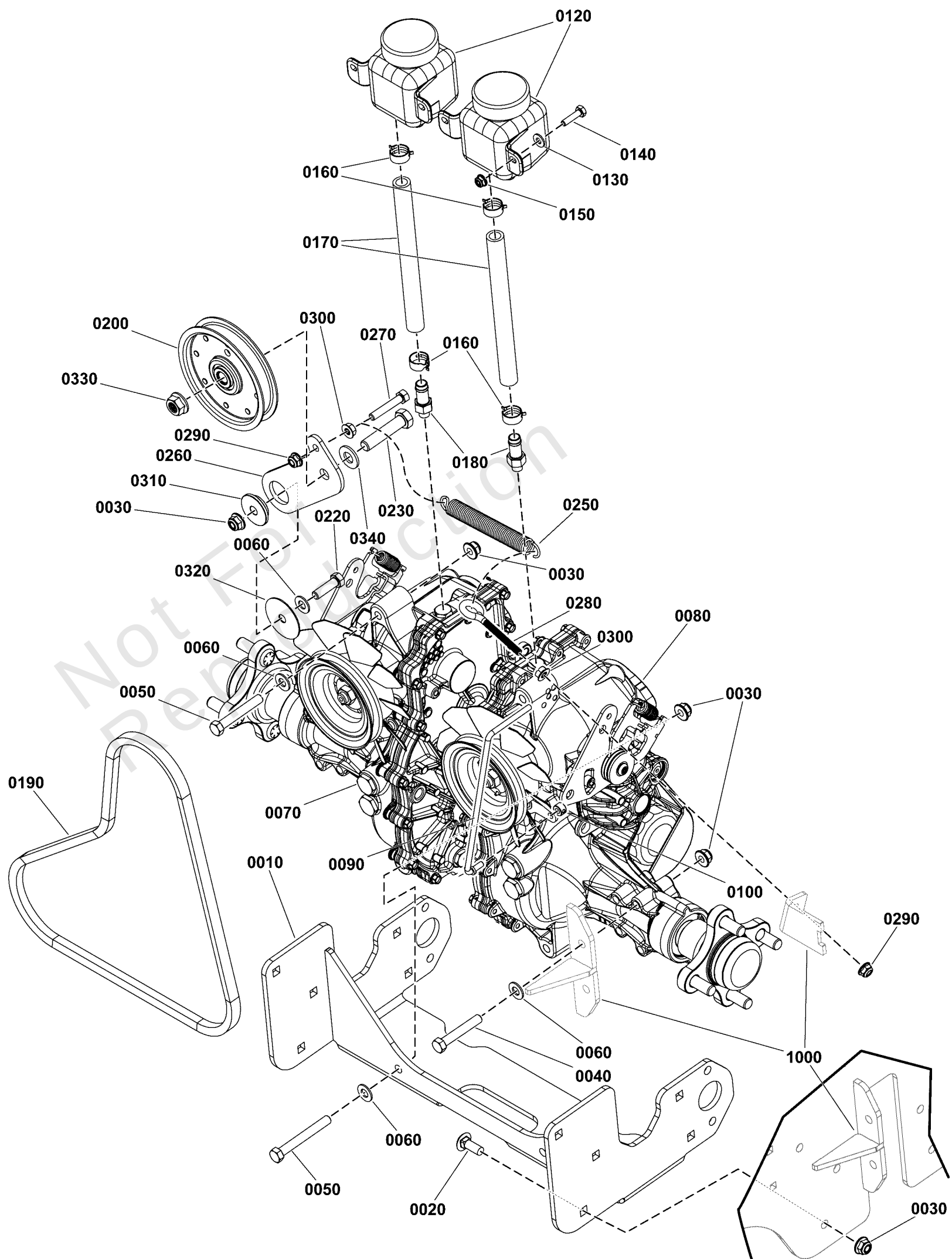
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Fuel Tank and Mount Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5420585A	1	WELD, TANK MOUNT, FB1000 - BLK
0020	5421231A	1	WELD, FUEL TANK MOUNT, LOWER, FB1000-BLK
0030	5025013X8	5	BOLT, 3/8-16 X 1" GD5 CZ
0040	5025156	5	WASHER, 3/8 SAE
0050	5025394	5	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0060	5102833	1	TANK, 4.625 GAL, W DROP TUBE/VENT
0060-10	5102833X1	1	GROMMET -(Grommet for fuel tank 5102833)
0070	5108752	1	FUEL CAP, 3.5", MANAGED VENT OUT, 12" RT
0080	5403445AA	2	STRAP, FUEL TANK
0090	5025010X10	2	BOLT, 1/4-20 X 1-1/4 GD5 CZ
0100	5025391	2	NUT, 1/4-20 Hex Nylock Flange
0110	5025154	2	WASHER, 1/4 SAE
0120	5100810	2	PAD, RUBBER MOUNT
0130	5050831X5	1	1/4" Fuel Line, 5" Long
0140	93807	2	CLAMP, Hose
0150	7700552X4P5	2	HOSE, VAPOR, 5MM ID, 4.50 LG
0160	5103062	1	FITTING, 3/16" TEE, BARB TYPE, HDPE
0170	80025019	1	FILTER, FUEL
0180	5025055X20	1	BOLT, 5/16-18 X 2-1/2 GD5 TFL, CZ
0190	5025127	1	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)



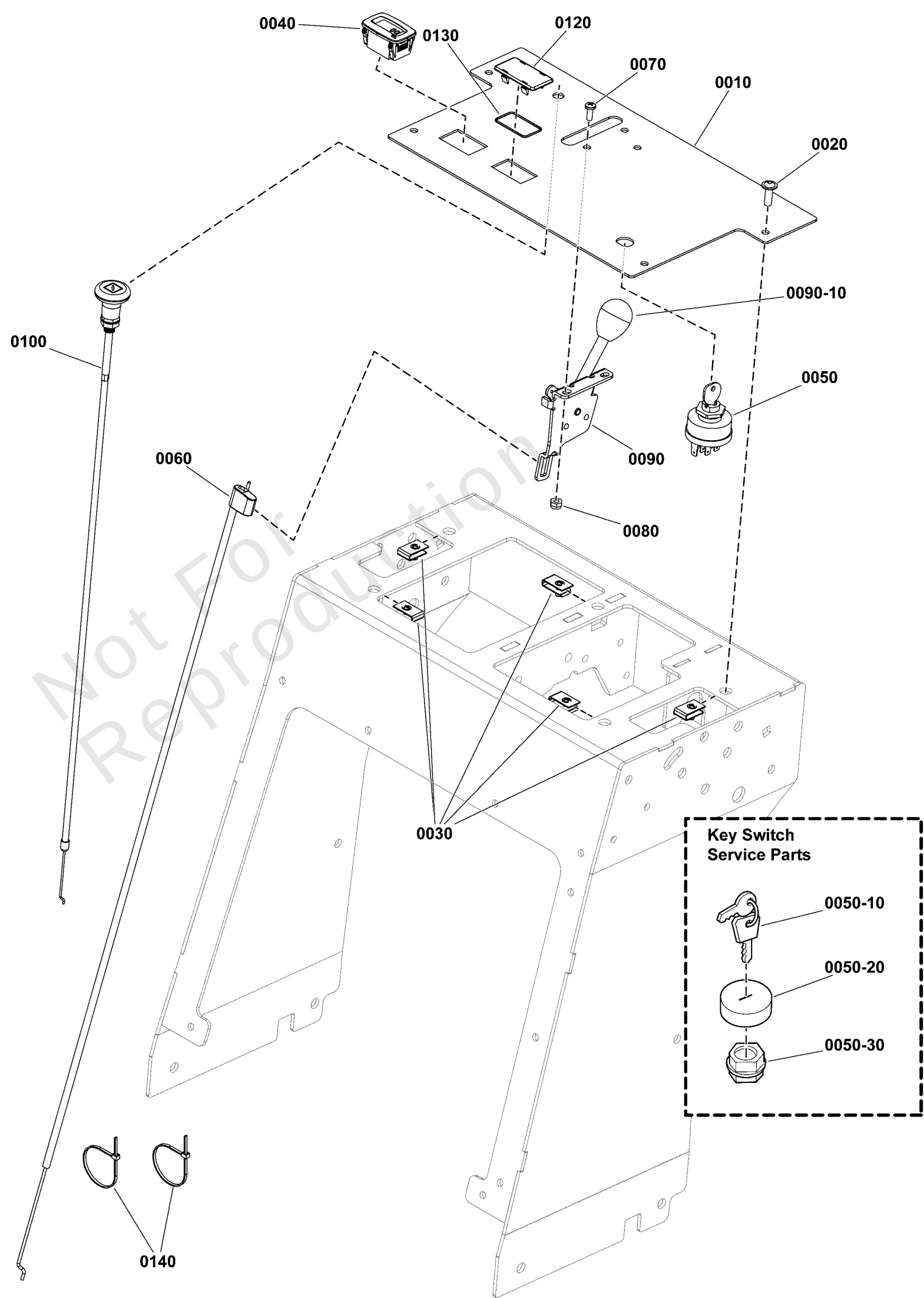
Hydraulic Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5421310A	1	WELD, LOWER TRANS MOUNT, FB1000 - BLK
0020	-----	10	BOLT,3/8-16X1.000,RND HD CRRG,ZINC/CLEAR
0030	5025394	19	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0040	5025013X24	4	BOLT, 3/8-16 X 3" GD5 CZ
0050	5025013X20	4	BOLT, 3/8-16 X 2-1/2" GD5 CZ
0060	5025156	9	WASHER, 3/8 SAE
0070	5109245	1	TRANSAXLE, ZT-3100, RH,ZJ-LCRP-SA7C-19XX
0080	5109246	1	TRANSAXLE, ZT-3100, LH,ZJ-HCRP-SA7B-19XX
0090	5109270	2	ROD, HYDRO RELEASE, FB1000,CZ
0100	5022481	2	COLLAR, Set, 1/4"
0120	5100473	2	RESERVOIR, HYDRO OIL, 350 ML
0120-10	5100778X1	2	RESERVOIR CAP (SV)
0130	5025154	4	WASHER, 1/4 SAE
0140	5025010X8	4	BOLT, 1/4-20 X 1" GD5 CZ
0150	5025391	4	NUT, 1/4-20 Hex Nylock Flange
0160	5025474	4	CLAMP, HOSE, .75 FREE DIA.
0170	5050857X8	2	HYDRAULIC HOSE, Filter To Pump
0180	5107224	2	FITTING, STRAIGHT 7/16-20 UNF (HU002)
0190	5109484	1	BELT, A-SEC, 46.50" EL, RAW EDGE, COG
0200	5109471	1	PULLEY, IDLER, 4.5 OD, .506 ID
0220	5025013X10	1	BOLT, 3/8-16 X 1-1/4" GD5 CZ
0230	5025017X18	1	BOLT, 1/2-13 X 2-1/4" GD5 CZ
0250	5109476	1	SPRING, IDLER, FB1000
0260	5421961AA	1	PLATE, IDLER ARM, FB1000 - BLK
0270	5025011X14	1	BOLT, 5/16-18 X 1-3/4" GD5 YZ
0280	5025141X26	1	EYE BOLT,5/16-18 X3.5,2.13THRD,.55EYE,CZ
0290	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0300	5025127	2	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
0310	1757738	1	SPACER IDLER 42
0320	5025695	1	WASHER, 0.406 X 2.00 X 0.0465, CZ
0330	5025396	1	NUT, Hex Flange, Nylock, 1/2-13
0340	5025158	1	WASHER, 1/2 SAE
1000	-----	1	Refer to: Main Frame Group

Instrument Control Panel Group

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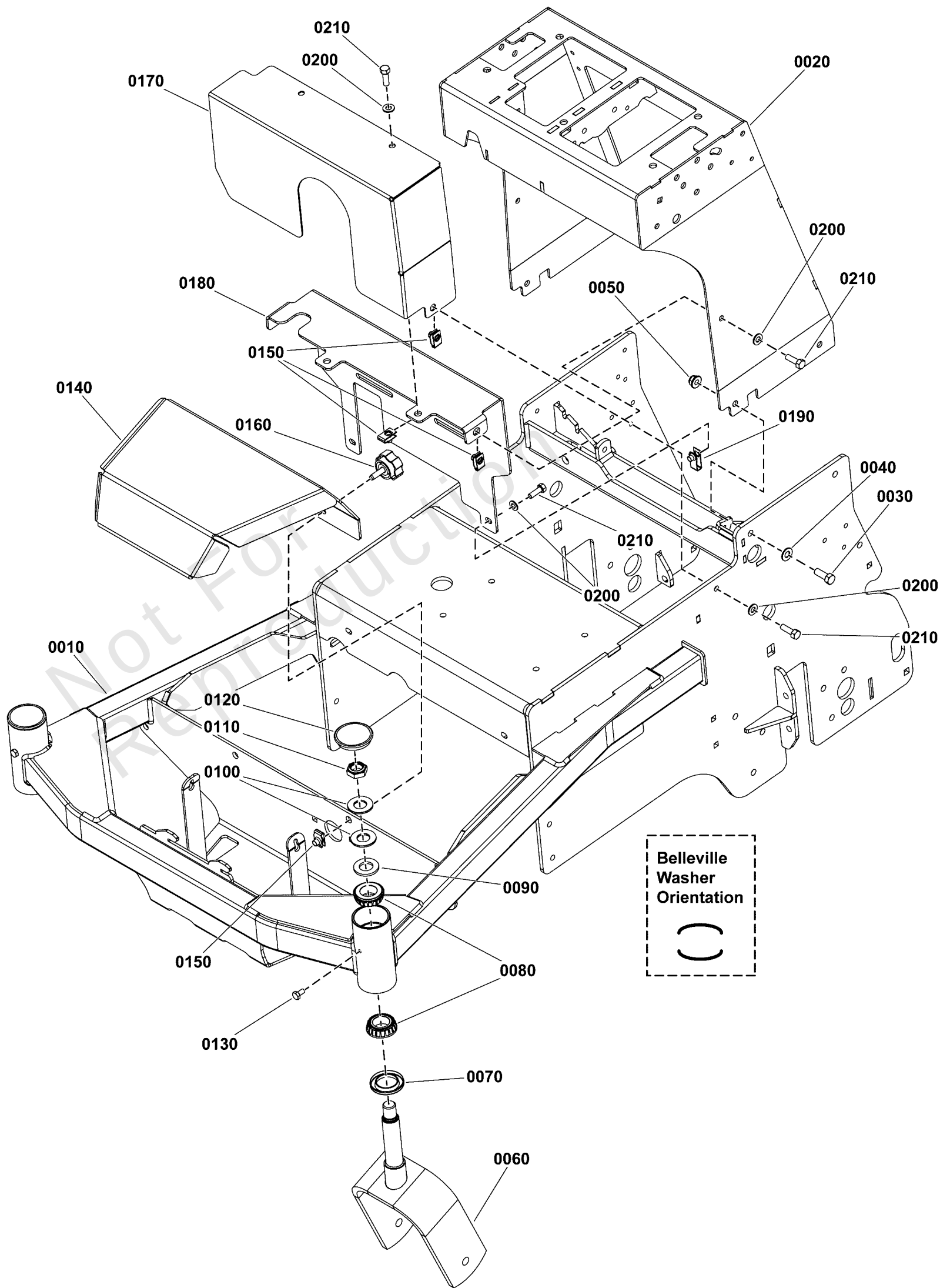
Instrument Control Panel Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5601334	1	DASH PANEL W/ DECALS, P2000 -(Includes decals).
0020	5106757	5	SCREW, FLANGE, ALLEN HD, 1/4-20 X .75 SS
0030	5022665	5	BODY CLIP, 1/4-20 X 1/2" DEEP
0040	5106789	1	HOUR, METER & TECH
0050	5020927	1	SWITCH, IGNITION, 6 POST
0050-10	5022789	1	KEY, IGNITION MOLDED SET -(SV)
0050-20	5022790	1	COVER, PLASTIC, SNAP ON -(SV)
0050-30	5022791	1	PLASTIC NUT -(SV)
0060	5109627	1	CABLE, THROTTLE, 27.75
0070	5025179X4	2	SCREW, #10-24 X 1/2" ROUND PHILLIPS
0080	5025271	2	NUT, Hex, Nylon Lock, #10-24
0090	5101995	1	LEVER, HEAVY DUTY, THROTTLE CONTROL
0090-10	5046360X1	1	THROTTLE CONTROL HANDLE/KNOB
0100	5109628	1	CABLE, CHOKE CONTROL, 21.75
0120	1722611	1	PLUG, Hole (Black Plastic)
0130	5022269	1	O-RING, 7/8" ID X 1/16" W
0140	5021030	2	TIE, SELF-LOCKING, 6"

Main Frame Group

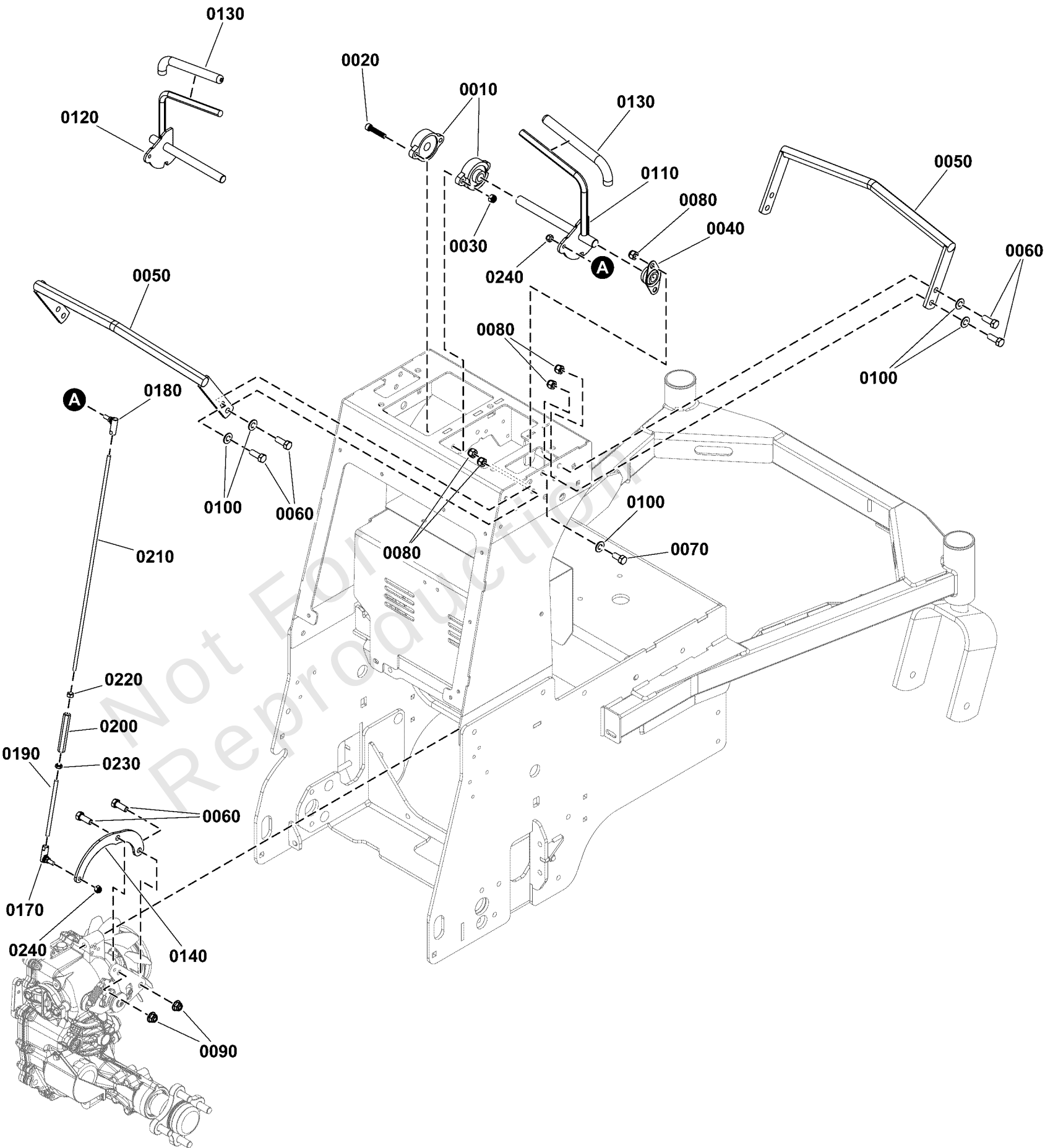
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Main Frame Group

REF NO	PART NO	QTY	DESCRIPTION
0010	-----	1	FRAME
0020	5420514AD	1	WELD, CONTROL TOWER, FB1000 - ORG
0030	5025013X8	4	BOLT, 3/8-16 X 1" GD5 CZ
0040	5025156	4	WASHER, 3/8 SAE
0050	5025394	4	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0060	5402539A	2	WELD, CASTER YOKE, IS500Z - BLK
0070	5021072	2	SEAL, Grease
0080	5020884	4	BEARING, TAPERED ROLLER, 1"
0090	5025160	2	WASHER, 3/4" SAE
0100	5025449	4	WASHER, BELLEVILLE - 1.500 X .755
0110	5025448	2	NUT, 3/4-16, HEX JAM NYLON LOCK
0120	5102929	2	CAP, LOW PROFILE, STEEL
0130	5025457	2	BOLT, 1/4-28 X 1/2, GD5 YZ
0140	5421743A	1	PLATE,BATTERY MOUNT COVER, FB1000 - BLK
0150	5022308	7	BODY CLIP, 5/16-18 7GA. MATERIAL
0160	5108141	2	KNOB, 5/16-18 X 1.00, ROSETTE, BLK
0170	5420565AD	1	PLATE, BELT GUARD, FB1000 - ORG
0180	5421529AA	1	PLATE, HYDRO TANK MOUNT, FB1000 - BLK
0190	5025452	2	BODY CLIP, 5/16-18 -1/4 MATERIAL
0200	5025155	7	WASHER, 5/16" SAE
0210	5025011X8	7	BOLT, 5/16-18 X 1" GRD5 YZ



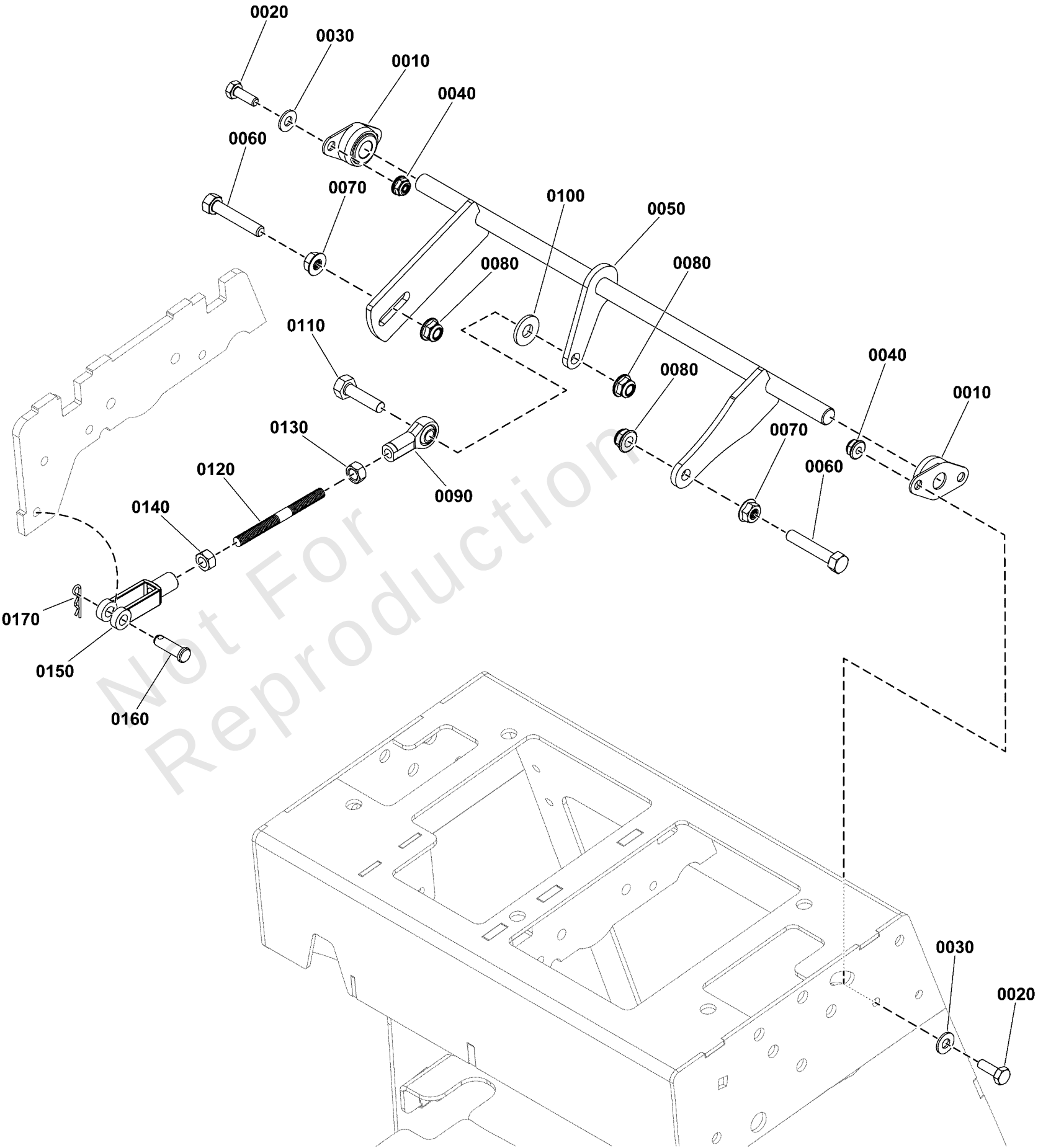
Motion Control Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5022846	2	BEARING-FLANGE, 5/8
0020	5025618X12	2	SCREW, SOC HD, 5/16-18 X 1-1/2, BLK
0030	5025057	2	NUT, Hex, Nylon Locking, 5/16-18
0040	5104885	2	BEARING, BRONZE, FLANGED, 5/8", FLB10
0050	5414243AA	2	WELD, REAR HANDLE, SRSZ1 - BLK
0060	5025013X8	12	BOLT, 3/8-16 X 1" GD5 CZ
0070	5025013X6	4	BOLT, 3/8-16 X 3/4" GD5 CZ
0080	5025096	12	NUT, Hex, Nylon Locking, 3/8-16
0090	5025394	4	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0100	5025156	12	WASHER, 3/8 SAE
0110	5420574AA	1	WELD, CONTROL HANDLE, RH, FB1000 - BLK
0120	5420575AA	1	WELD, CONTROL HANDLE, LH, FB1000 - BLK
0130	5100619	2	GRIP, FOAM, .475 X 7.75 X .095
0140	5421889AA	2	ARM, TRANSMISSION CONTROL, FB1000 - BLK
0170	5106802	2	BALL JOINT, 1/4"-28 THREAD LH
0180	5106803	2	BALL JOINT, 1/4-28 RH STUD
0190	5107303	2	ROD 1/4-28 X 4-1/2" YZ (ZP16054)
0200	5106971	2	TURNBUCKLE, 1/4-28 X 3 (103-17-4635)
0210	5107239	2	ROD, LINKAGE, 1/4-28X17.5
0220	5106858	2	NUT, 1/4-28, LH, YZ (15086)
0230	7090095	2	NUT, 1/4-28 Hex, GR 5
0240	5106892	4	NUT, 1/4-28, NYLOCK, GD2 CZ (15140)

Neutral Lock Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902011-P2000



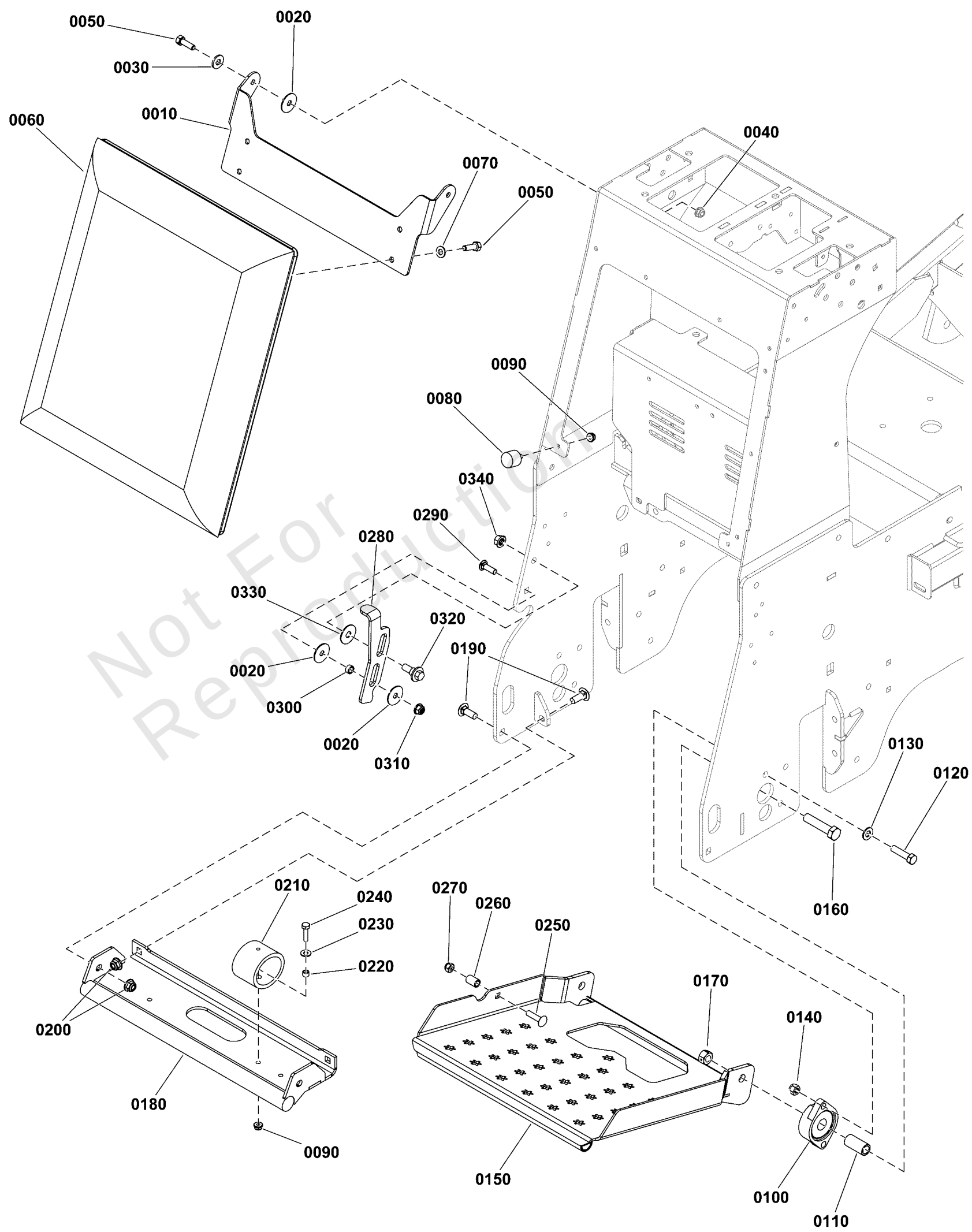
Neutral Lock Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5101123	2	BEARING, 1/2 FLANGED, PLASTIC BALL
0020	5025010X6	4	BOLT, 1/4"-20 X 3/4" GD5 YZ
0030	5025154	4	WASHER, 1/4 SAE
0040	5025391	4	NUT, 1/4-20 Hex Nylock Flange
0050	5420577AA	1	WELD, NEUTRAL LOCK SHAFT, FB1000 - BLK
0060	5025011X14	2	BOLT, 5/16-18 X 1-3/4" GD5 YZ
0070	5025127	2	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
0080	5025392	3	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0090	5104494	1	BALL JOINT 5/16-24 LH FEMALE BRONZE RACE
0100	5025337	1	WASHER, 5/16" USS
0110	5025055X10	1	BOLT, 5/16-18 x 1-1/4" TFL GD 5
0120	5104695	1	ROD, 5/16-24 X 3.25, CZ
0130	5023212	1	NUT, 5/16-24 HEX, LH
0140	5025033	1	NUT, Hex, 5/16-24
0150	5023323	1	CLEVIS, 5/16-24, STEEL, CLEAR ZINC
0160	5025213X8	1	PIN, CLEVIS, 5/16 X 1, PLATED
0170	5025211	1	PIN, HAIR, .0585 X 1-1/8, 1/4 EYE, YZ

Operator Area Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902011-P2000



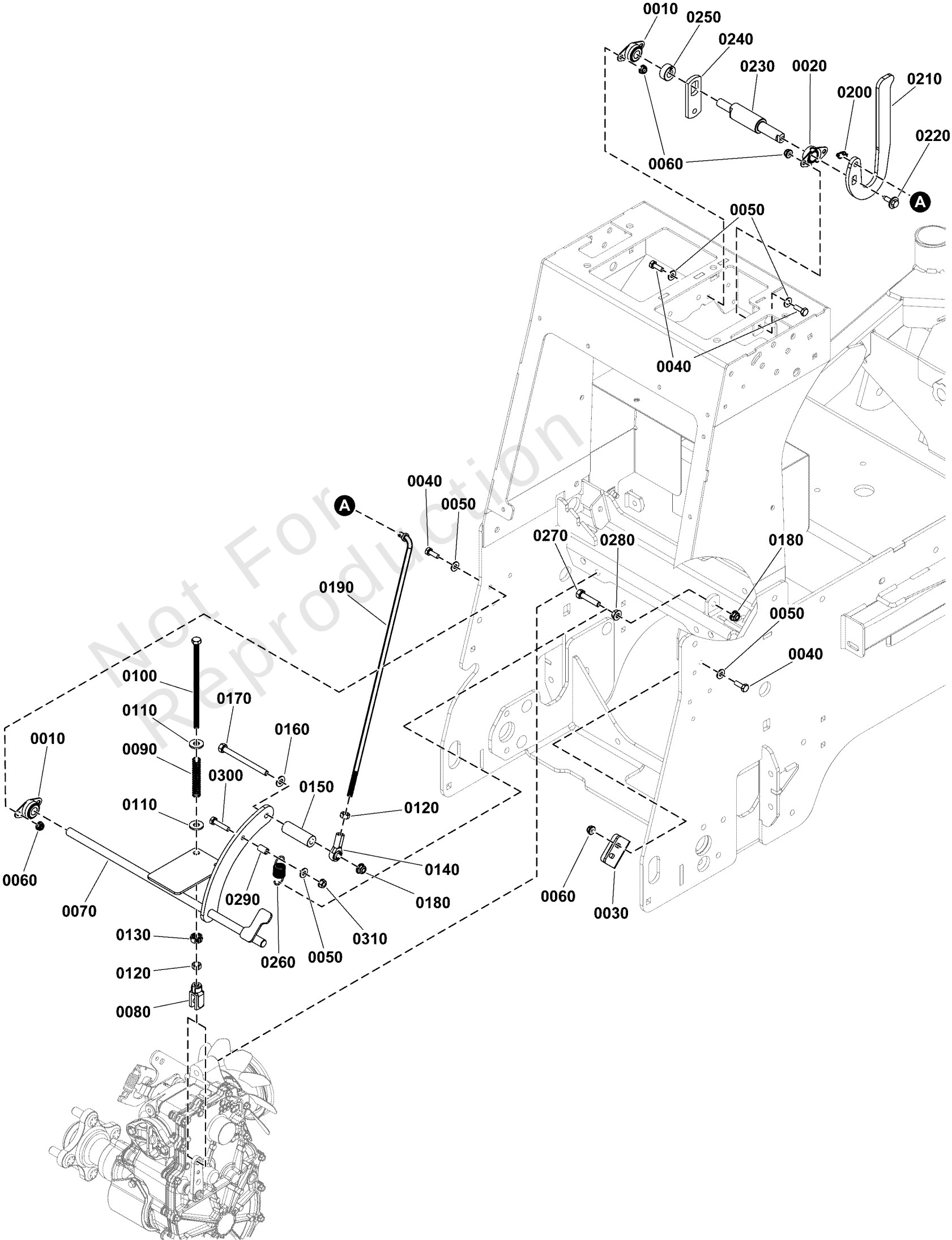
Operator Area Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5415658A	1	PLATE, PAD MOUNT, SRSZ1 - BLK
0020	5025164	4	WASHER, 5/16" Fender
0030	5025337	2	WASHER, 5/16" USS
0040	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0050	5025011X8	6	BOLT, 5/16-18 X 1" GRD5 YZ
0060	5109578	1	KNEE PAD, BLWR, FB1000/P2000
0070	5025155	4	WASHER, 5/16" SAE
0080	5022673	2	BUMPER, RUBBER, 1/4-20
0090	5025391	6	NUT, 1/4-20 Hex Nylock Flange
0100	5021499	2	BEARING, FLANGE
0110	5104658	2	SPACER, .52 X .74 X 1.50, CZ
0120	5025013X12	4	BOLT, 3/8-16 X 1-1/2" GD5 CZ
0130	5025156	4	WASHER, 3/8 SAE
0140	5025096	4	NUT, Hex, Nylon Locking, 3/8-16
0150	5421234A	1	WELD, PLATFORM, FB1000 - BLK
0160	5025017X18	2	BOLT, 1/2-13 X 2-1/4" GD5 CZ
0170	5025332	2	NUT, 1/2-13 Hex Side Lock
0180	5421242A	1	WELD, SPRING MOUNT, FB1000 - BLK
0190	-----	4	BOLT, 3/8-16X1.000,RND HD CRRG,ZINC/CLEAR
0200	5025394	4	NUT, 3/8 - 16 HEX NYLOCK FLANGE
0210	5105128	4	BUMPER, GBR-6, 200 IN-LBS
0220	5021878	4	SPACER, .25 X .37 X .25
0230	5025154	4	WASHER, 1/4 SAE
0240	5025010X8	4	BOLT, 1/4-20 X 1" GD5 CZ
0250	80004446	1	BOLT, 5/16-18X1 1/4, GR5, CRRG, ZINC/CLEAR
0260	5101352	1	SPACER, .33 X .50 X .75
0270	5025057	1	NUT, Hex, Nylon Locking, 5/16-18
0280	5421299A	1	PLATE, LATCH FB1000 - BLK
0290	5025145X8	1	BOLT, 5/16-18 X 1, CARRIAGE, GD5, CZ
0300	5102463	1	SPACER, .33 X .50 X .25, PM, CZ
0310	-----	1	NUT 5/16-18 HEX FLNG CNTR LCK ZC/CL
0320	720097	1	BOLT, 3/8-16 Shoulder, GR 2
0330	5025165	1	WASHER, 3/8" Fender
0340	5025666	1	NUT, 3/8-16, FLANGE, SERRATED UNDER HEAD

Parking Brake Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902011-P2000



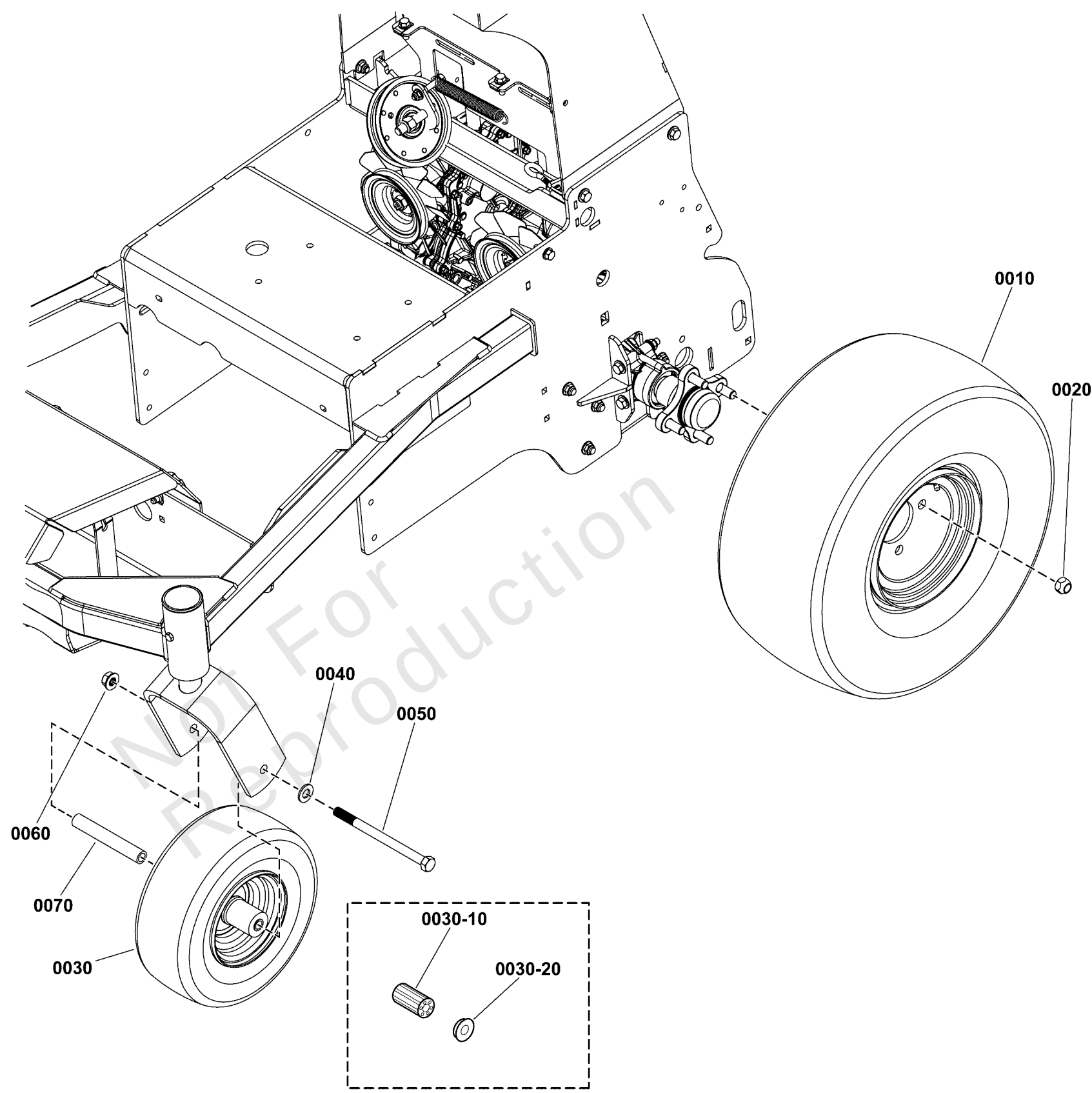
Parking Brake Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5101123	3	BEARING, 1/2 FLANGED, PLASTIC BALL
0020	5104270	1	BEARING, 5/8" FLANGED, PLASTIC BALL
0030	5415132AA	1	PLATE, PARKING BRAKE SWITCH - BLK
0040	5025010X6	10	BOLT, 1/4"-20 X 3/4" GD5 YZ
0050	5025154	11	WASHER, 1/4 SAE
0060	5025391	10	NUT, 1/4-20 Hex Nylock Flange
0070	5420562AA	1	WELD, BRAKE SHAFT PIVOT, FB1000 - BLK
0080	5025688	2	CLEVIS, 5/16-24, STEEL,W/PIN, CZ
0090	5020637	2	SPRING-COMP, .375IDX2.75LGX.054WR, SS
0100	5025012X52	2	BOLT, 5/16-24 X 6.50, GD8, CZ
0110	5025337	4	WASHER, 5/16" USS
0120	5025033	3	NUT, Hex, 5/16-24
0130	5102997	2	COLLAR, DOUBLE SPLIT, 5/16 CZ
0140	5104493	1	BALL JOINT 5/16-24 RH FEMALE BRONZE RACE
0150	5109600	1	SPACER, .34 X .75 X 2.25, CZ
0160	5025155	1	WASHER, 5/16" SAE
0170	5025011X30	1	BOLT, 5/16-18 X 3-3/4 GD5 YZ
0180	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0190	5109524	1	ROD, PARKING BRAKE, FB1000
0200	5025639	1	RUE - 10 RETAINING PIN, .047"X5/16 SHAFT
0210	5421092AA	1	PLATE, BRAKE LEVER, FB1000 -BLK
0220	2860664	1	SCREW-HEX SEMS WSHR 1/4-20 X.88 DOG PT
0230	5104953	1	SHAFT, UPPERBRAKE ROD SHORT, SRSZ1
0240	5106314	1	PLATE, BRAKE TAB, STAND-ON
0250	5010580	1	COLLAR, 1/2 SET (1/2 SPLIT COLLAR IN MODEL)
0260	5010213	1	SPRING-EXT, .740 ODX2.025LGX.072WR, BLK
0270	5025011X12	1	BOLT, 5/16-18 X 1-1/2" GD5 YZ
0280	5025127	1	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
0290	5041483	1	SPACER, .52 X .38 X .63, CZ
0300	5025010X10	1	BOLT, 1/4-20 X 1-1/4 GD5 CZ
0310	80003547	1	NUT 1/4-20 CNTR FLNG ZINC/CLEAR

Wheel and Tire Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5902011-P2000



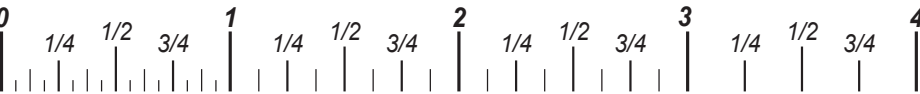
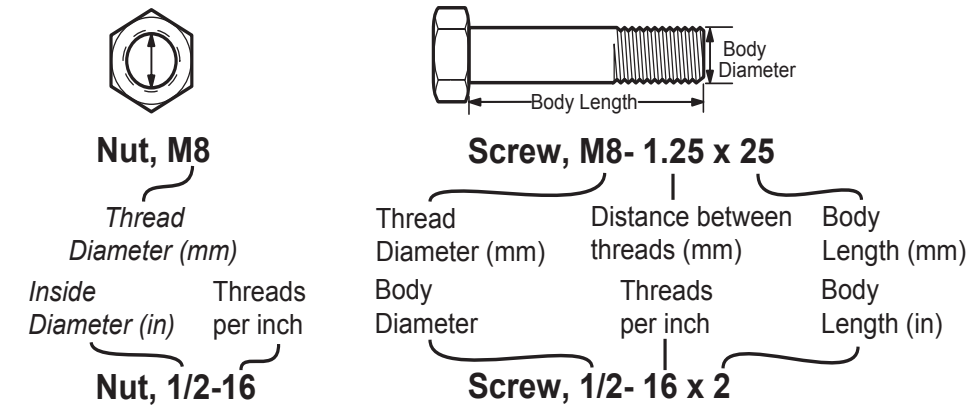
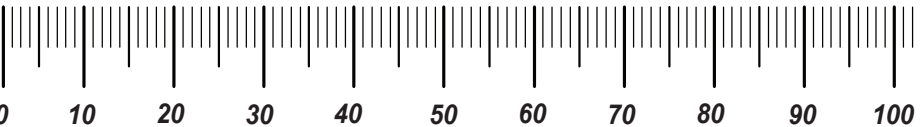
Wheel and Tire Group

REF NO	PART NO	QTY	DESCRIPTION
0010	5109292	2	TIRE/WHEEL , 20 X 8.00-8, TURF, P2000
0020	5020601	8	NUT, 1/2-20, FOR WHEEL BOLT SILVER
0030	5100715	2	TIRE/WHEEL ASSM 11/4.00-5 FLAT FREE
0030-10	5101418X1	4	BEARING, CASTER WHEEL, 11 X 4.0 - 5 BEAD LOCK (SV) -(2 per tire)
0030-20	5021043	4	RETAINER, BEARING (TWO PER TIRE)(SV) -(2 per tire)
0040	5025158	2	WASHER, 1/2 SAE
0050	5025017X56	2	BOLT, HEX, 1/2-13 X 7, GD 8, YZ
0060	5025396	2	NUT, Hex Flange, Nylock, 1/2-13
0070	5045996	2	AXLE, Front Caster

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).

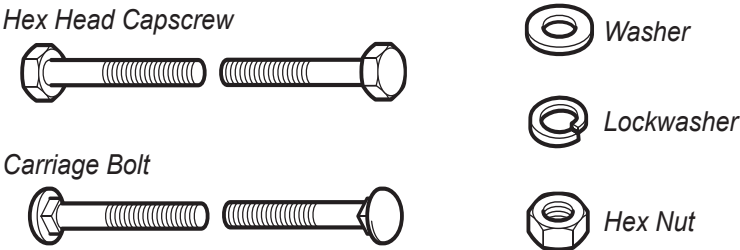
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

