



Parts Manual

Mfg. No: 2691420-00
ZTX2246, 22 Gross HP B&S and 46"
Mower Deck

1695946YP - Grass Mulcher Kit, 46".....	
1696673-00 - Twin Grass Catcher & Front Weight.....	
1696671 - Bagging Boot, 46".....	
1687860 - Mesh Seat Kit.....	
1687855YP - Rhino Grip.....	
1687856YP - Rhino Grip, Ratcheting.....	
1696839-00 - Cargo Bed, Bed Only (Export).....	

Not For
Reproduction

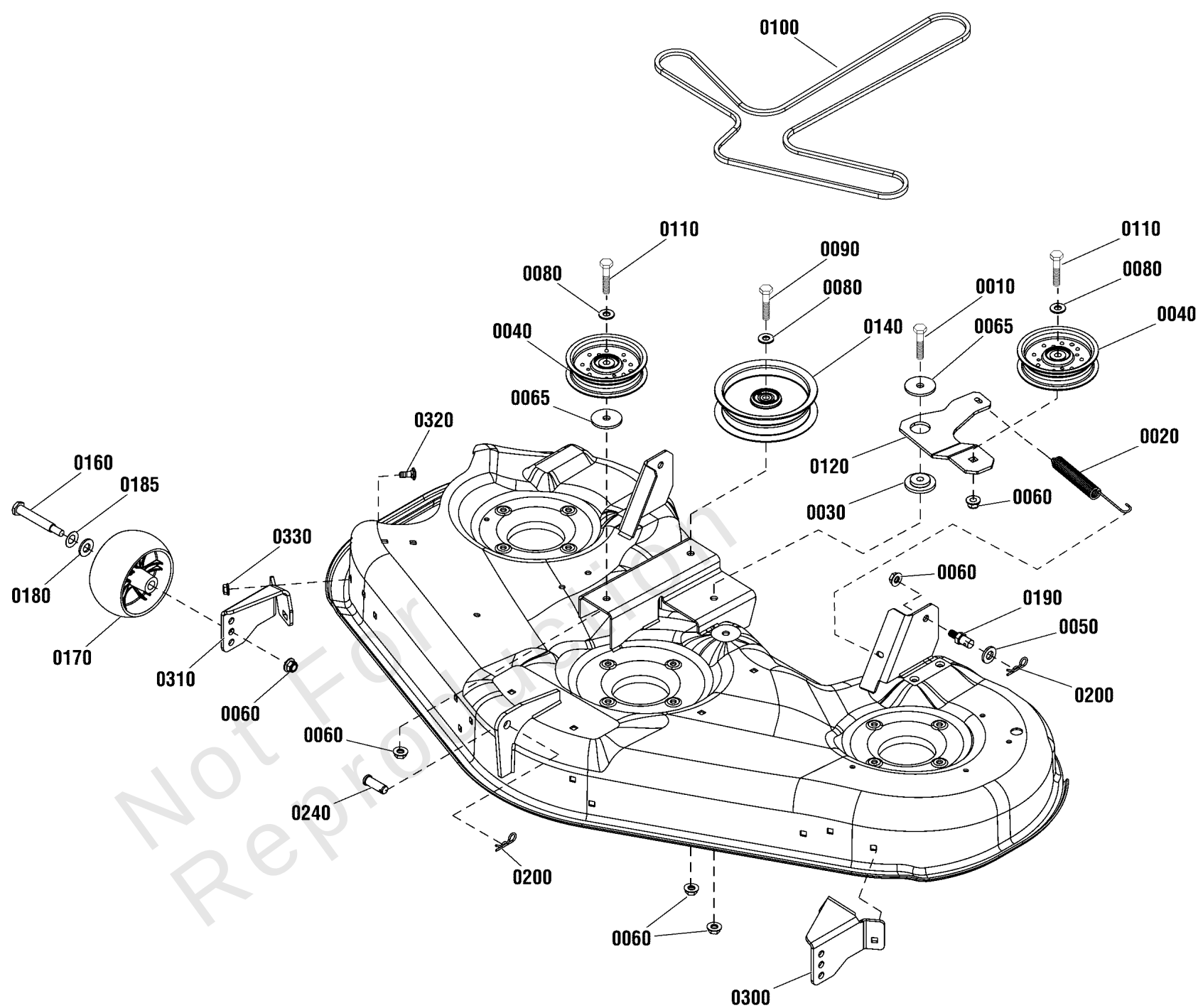
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Not For
Reproduction

46" Mower Deck - Clutch & Support Group (2991895)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691420-00



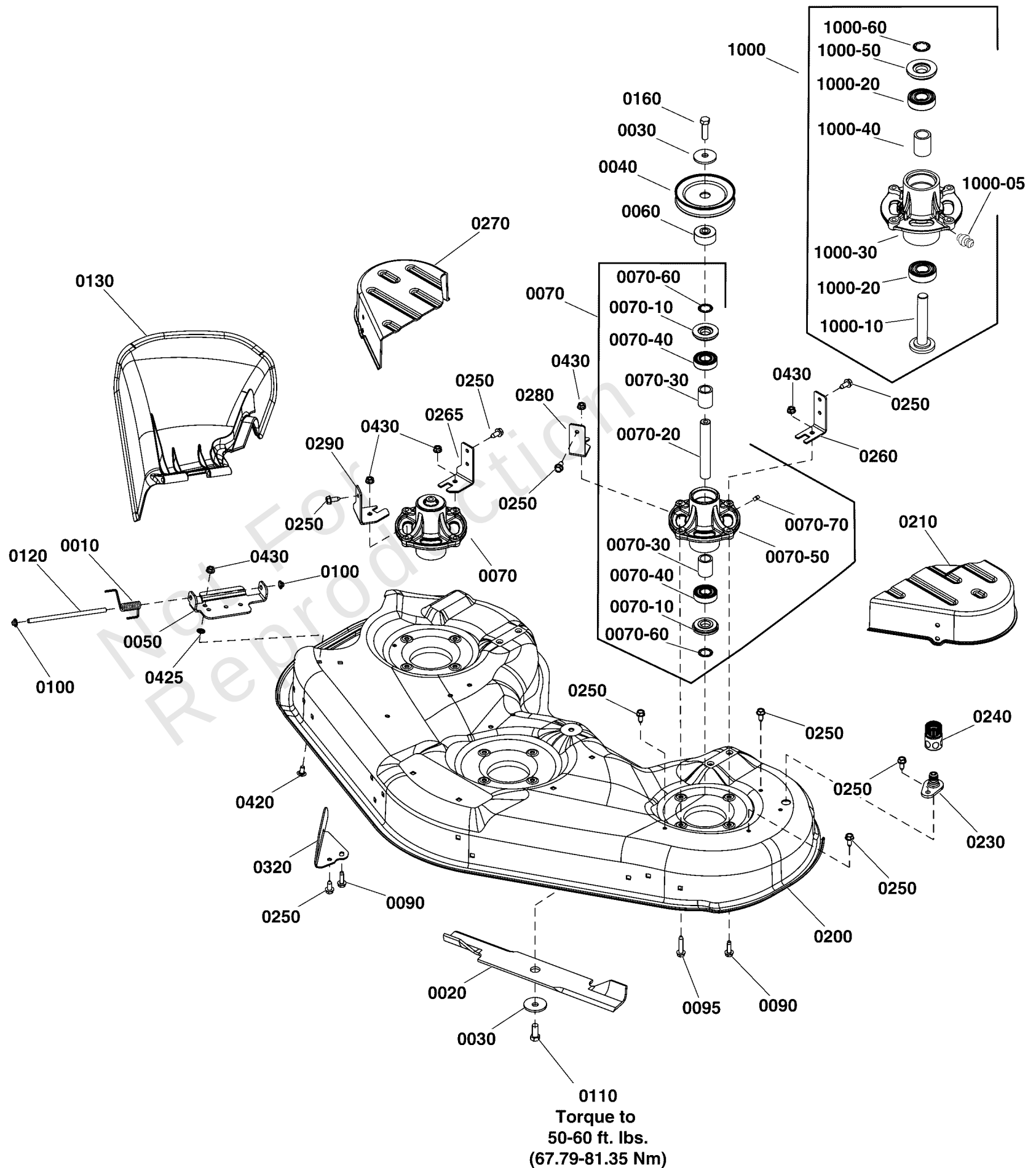
46" Mower Deck - Clutch & Support Group (2991895)

REF NO	PART NO	QTY	DESCRIPTION
0010	703589	1	CAPSCREW, 3/8-16X2
0020	1729620SM	1	SPRING, Extension 7-1/2"
0030	706128	1	SPACER, IDLER
0040	1757823YP	2	PULLEY-IDLER 4"
0050	703853	2	WASHER, 0.516IDX1OD
0060	703158	8	NUT, Flange Lock, 3/8-16
0065	5025305SM	2	WASHER, .41 X 1.75 X
0080	703878	3	WASHER, FLAT
0090	703872	1	SCREW
0100	1736516YP	1	V-BELT, HA 132"
0110	703589	2	CAPSCREW, 3/8-16X2
0120	1758486AYP	1	ARM, Idler, 46"
0140	7034422SM	1	(C) PULLEY, FLAT IDLE
0160	1736539YP	2	BOLT, SHOULDER
0170	1736896YP	2	WHEEL, GAUGE
0180	5025158SM	2	WASHER, 1/2" SAE
0185	0020X3MA	2	WASHER,SPRING .52X.99
0190	704054	2	PIN, 3/8-16
0200	703300	3	PIN, 3/32 X 1.6
0240	5025479YP	1	CLEVIS PIN, 1/2 X 1.3
0300	1736074BMYP	1	BRACKET, GAUGE WHEEL
0310	1736075BMYP	1	BRKT, GAUGE WHEEL, LH
0320	703185	4	BOLT, Round Head, Short Square Neck
0330	5025127SM	4	NUT, 5/16-18 HEX SERR

46" Mower Deck - Housing, Arbors & Blades Group (2991894)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691420-00



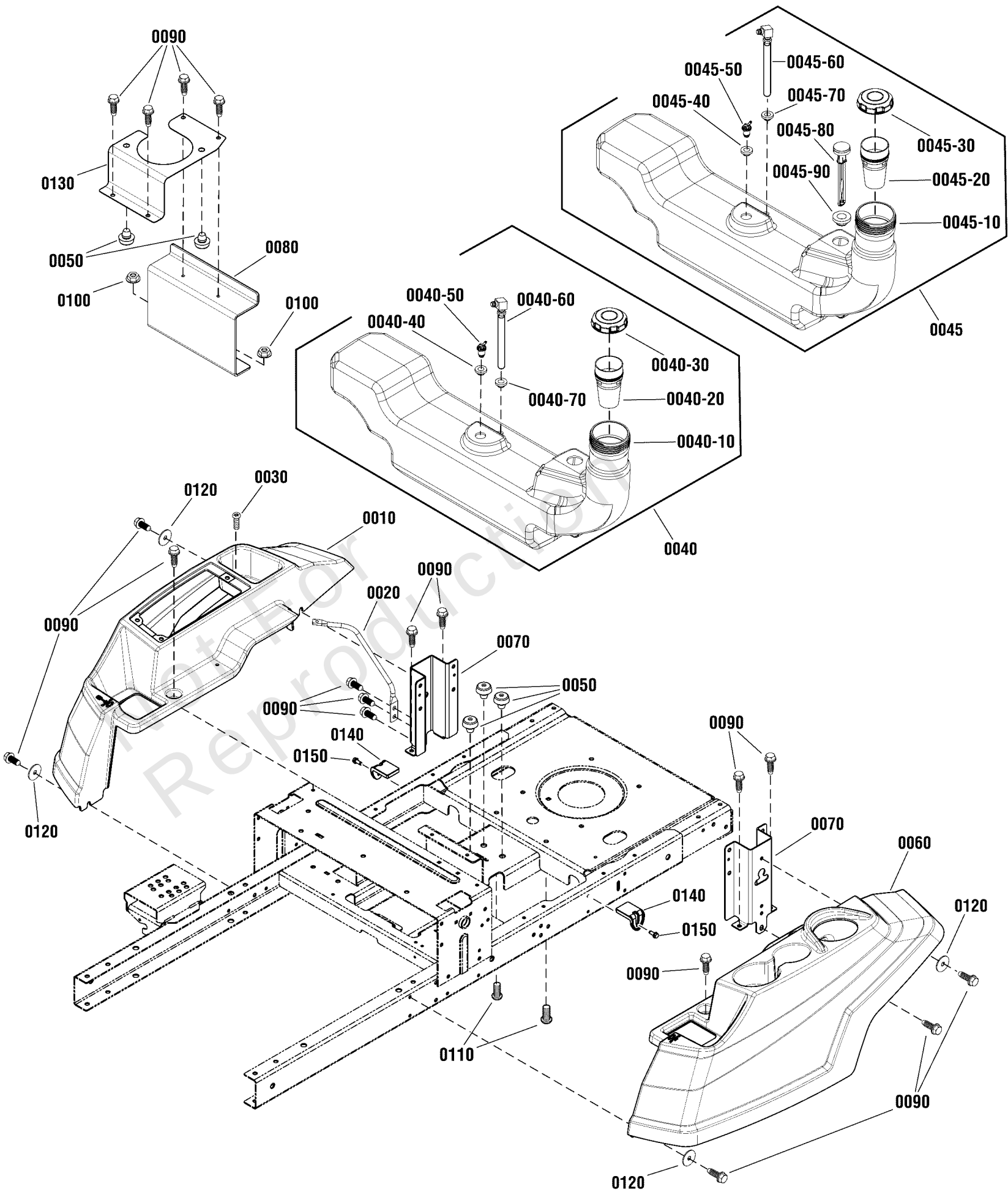
46" Mower Deck - Housing, Arbors & Blades Group (2991894)

REF NO	PART NO	QTY	DESCRIPTION
0010	1755412YP	1	SPRING, Torsion
0020	1737228BZYP	3	BLADE, Mower, 16.125 Long
0030	1656916SM	6	WASHER, SPRING 0.475I
0040	1735686YP	3	PULLEY, 4.6, Split
0050	1754868AYP	1	BRACKET, Hinge, Retro
0060	1737457YP	3	SPACER, Pulley
0070	7502226YP	3	ASSEMBLY-SPINDLE -(Replaced by Ref. Nos. 1000, this arbor assembly is an exact replacement)
0070-10	1735323YP	2	SHIELD, Arbor
0070-20	1735326YP	1	SHAFT, Spindle -(Replaced by Ref. Nos. 1000-10, this spindle shaft is an exact replacement for the shaft, shield and ring)
0070-30	1735328YP	2	SPACER, Bearing -(Replaced by Ref. Nos. 1000-40, this spacer is an exact replacement)
0070-40	1735399YP	2	BEARING, Ball, 20mm
0070-50	1735573YP	1	HOUSING, w/Lube Fitting
0070-60	1960766YP	2	RING, SELF LOCKING
0070-70	1704314SM	1	LUBE FITTING, .250 DR
1000	84003175	3	ARBOR ASSEMBLY
1000-05	1704314SM	1	LUBE FITTING, .250 DR
1000-10	84003170	1	SHAFT, SPINDLE
1000-20	1735399YP	2	BEARING, Ball, 20mm
1000-30	84003654	1	HOUSING ASSEMBLY
1000-40	84003167	1	SPACER, BEARING
1000-50	84003166	1	COVER, ARBOR
1000-60	1960766YP	1	RING, SELF LOCKING
0090	704146	8	SCREW, HEX, 5/16-18X1
0095	1930600SM	4	SCREW, Hex, Washer Head, Taptite, 5/16-18 x 1-1/2
0100	704028	2	PUSHNUT, CAP, 5/16
0110	1920676SM	3	CAPSCREW, Hex Head, 7/16-14 X 1
0120	1759064YP	1	ROD, Deflector
0130	1687750YP	1	DEFLECTOR, Discharge, 46/52
0160	1921212SM	3	CAPSCREW, Hex Head, 7/16-14 X 1 1/2
0200	1687848YP	1	HOUSING, Mower Deck, 46" ZT (Red)
0210	1759289YP	1	COVER, Spindle, 46"/ 52" Mower, LH
0230	1756247YP	1	ADAPTOR, Washout Port
0240	1756246YP	1	CONNECTOR, Washout Port
0250	1664847CAYP	11	SCREW, Washer Head, 5/16-18 X 3/4
0260	1759291AYP	1	BRACKET, Arbor Cover Mount, Rear, LH, BL
0265	1759461AYP	1	BRACKET, Arbor Cover Mount, Rear, RH, BL
0270	1759290YP	1	COVER, Spindle, 46"/52" Mower, RH
0280	1759292AYP	1	BRACKET, Arbor Cover Mount, Front, LH, BL
0290	1759293AYP	1	BRACKET, Arbor Cover Mount, Front, RH, BL
0320	1737279AYP	1	BAFFLE, Pinchoff
0420	703447	2	BOLT, 5/16-18X.625 G5
0425	703297	2	RETAINER, GR5, 5/16
0430	5025127SM	6	NUT, 5/16-18 HEX SERR

Body & Fuel Tank Group

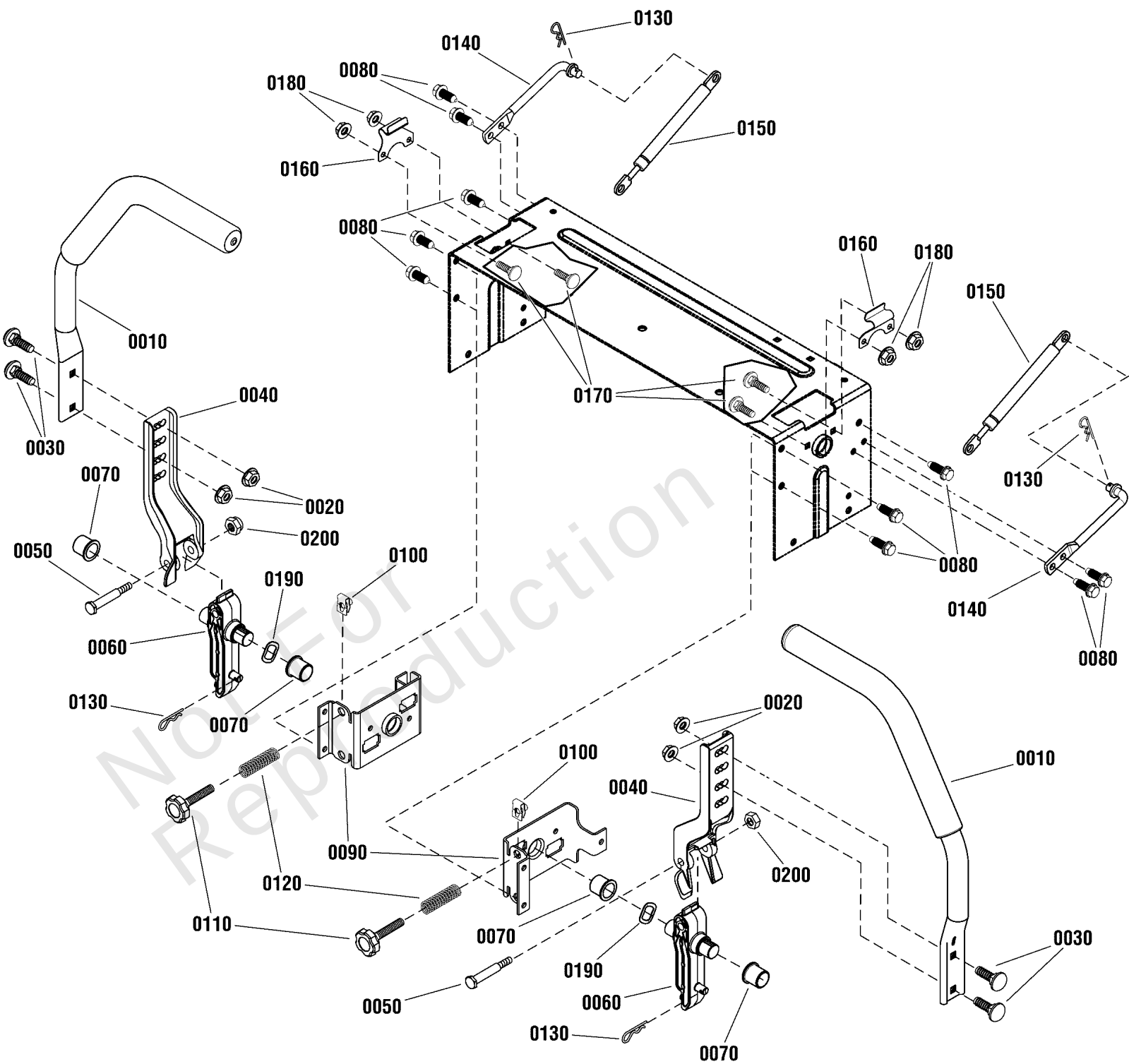
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Body & Fuel Tank Group

REF NO	PART NO	QTY	DESCRIPTION
0010	84008779	1	FENDER, Right
0020	1759369YP	1	ROD, Support
0030	7090999SM	1	SCREW, Phillips Head, 1/4-20 X 5/8
0040	1758202YP	1	FUEL TANK ASSEMBLY, No Fuel Gauge -(Includes item Nos. 0040-10 thru 0040-70)
0040-10	-----	1	TANK, Fuel -(Order item 0040)
0040-20	-----	1	NECK, Fuel Filter -(Order item 0040)
0040-30	1758314YP	1	CAP-FUEL TANK
0040-40	799624	1	GROMMET
0040-50	7104638YP	1	VENT, Remote
0040-60	1758927YP	1	TUBE-PICK UP
0040-70	1726400SM	1	BUSHING
0045	1758919YP	1	FUEL TANK ASSEMBLY. W / Fuel Gauge -(Includes item Nos. 0045-10 thru 0045-90)
0045-10	-----	1	TANK, Fuel -(Order item 0045)
0045-20	-----	1	NECK, Fuel Filter -(Order item 0045)
0045-30	1758314YP	1	CAP-FUEL TANK
0045-40	799624	1	GROMMET
0045-50	7104638YP	1	VENT, Remote
0045-60	1758927YP	1	TUBE-PICK UP
0045-70	1726400SM	1	BUSHING
0045-80	1758928YP	1	GAUGE-FUEL
0045-90	1722337SM	1	GROMMET
0050	197546GS	5	MOUNT-VIBRATION
0060	1758076YP	1	FENDER-LEFT
0070	1758239AYP	2	SUPPORT-FENDER
0080	84002196	1	BRACKET
0090	1664847SM	18	SCREW, Taptite, 5/16-18 x 3/4
0100	703158	2	NUT, Hex Flange, 3/8-16
0110	707790	2	SCREW, Button Head, 3/8-16 X .88
0120	1960044SM	4	WASHER-0.312(0.33IDX1
0130	1759140AYP	1	STRAP-FUEL TANK
0140	1760244YP	2	SUPPORT, Fuel Tank
0150	703054	2	SCREW, 1/4-20X0.625



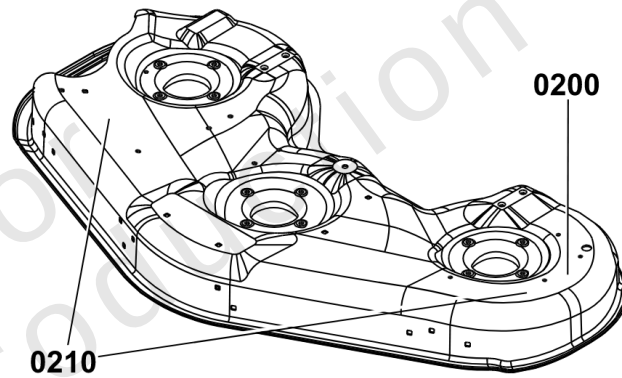
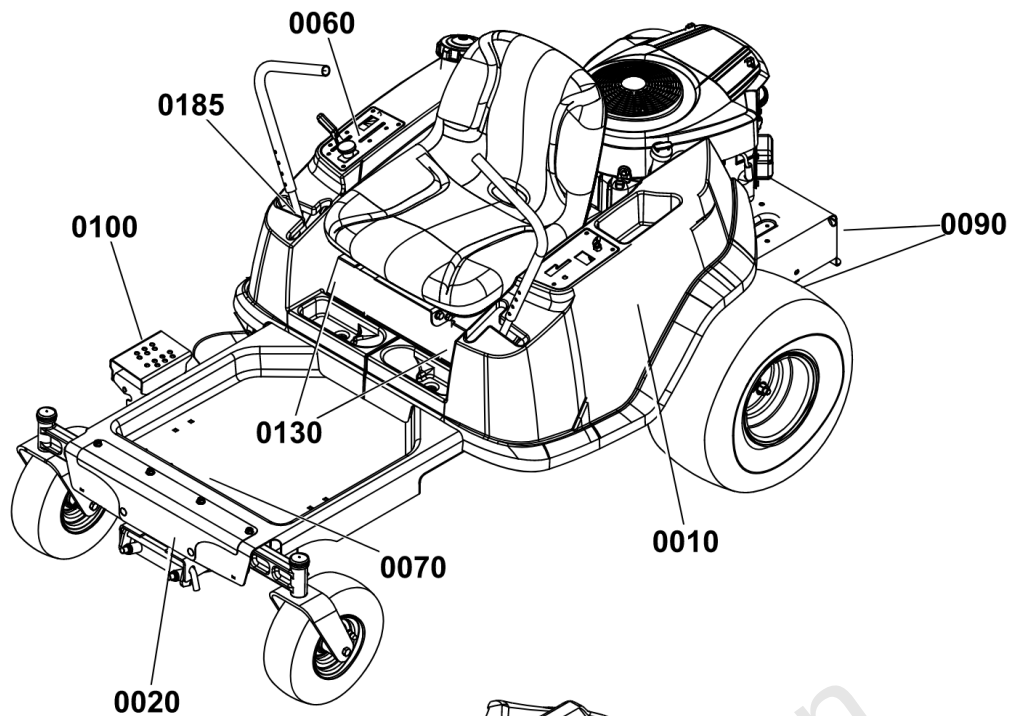
Controls Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1758372YP	2	HANDLE, CONTROL
0020	703115	4	NUT
0030	703483	4	BOLT,5/16-18X1.000,RO
0040	1757965YP	2	ARM, UPPER CONTROL
0050	707624	2	BOLT,SHLDR,5/16-18
0060	1757964YP	2	ARM, LOWER CONTROL
0070	2176440SM	4	BUSHING-0.765IDX
0080	703949	10	SCREW, 5/16-18.625
0090	1758087AYP	2	PIVOT, Inner Control
0100	5022308SM	2	BODY CLIP, 5/16-18 X
0110	1758373YP	2	KNOB, 5/16-18 X 2.5
0120	1650347SM	2	SPRING-COMP 0.50 IDX
0130	5025211SM	4	PIN, HAIR, .0585" X 1
0140	1758463YP	2	ROD, DAMPNER MNT
0150	84001625	2	DAMPENER
0160	1759182YP	2	LATCH, CONTROL ARM
0170	703101	4	BOLT,1/4-20X.75
0180	703463	4	NUT, GR5,1/4-20
0190	707625	2	WSHR, 3 WAVE, .750
0200	703902	2	NUT, HEX, 5/16-18

Decals Group (2992364)

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0010



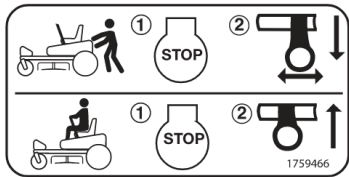
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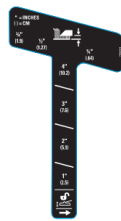
0070



0060



0090



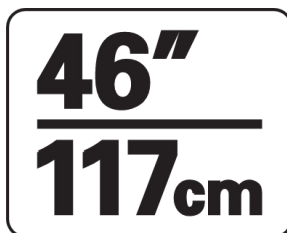
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0130



0185



0200



0210

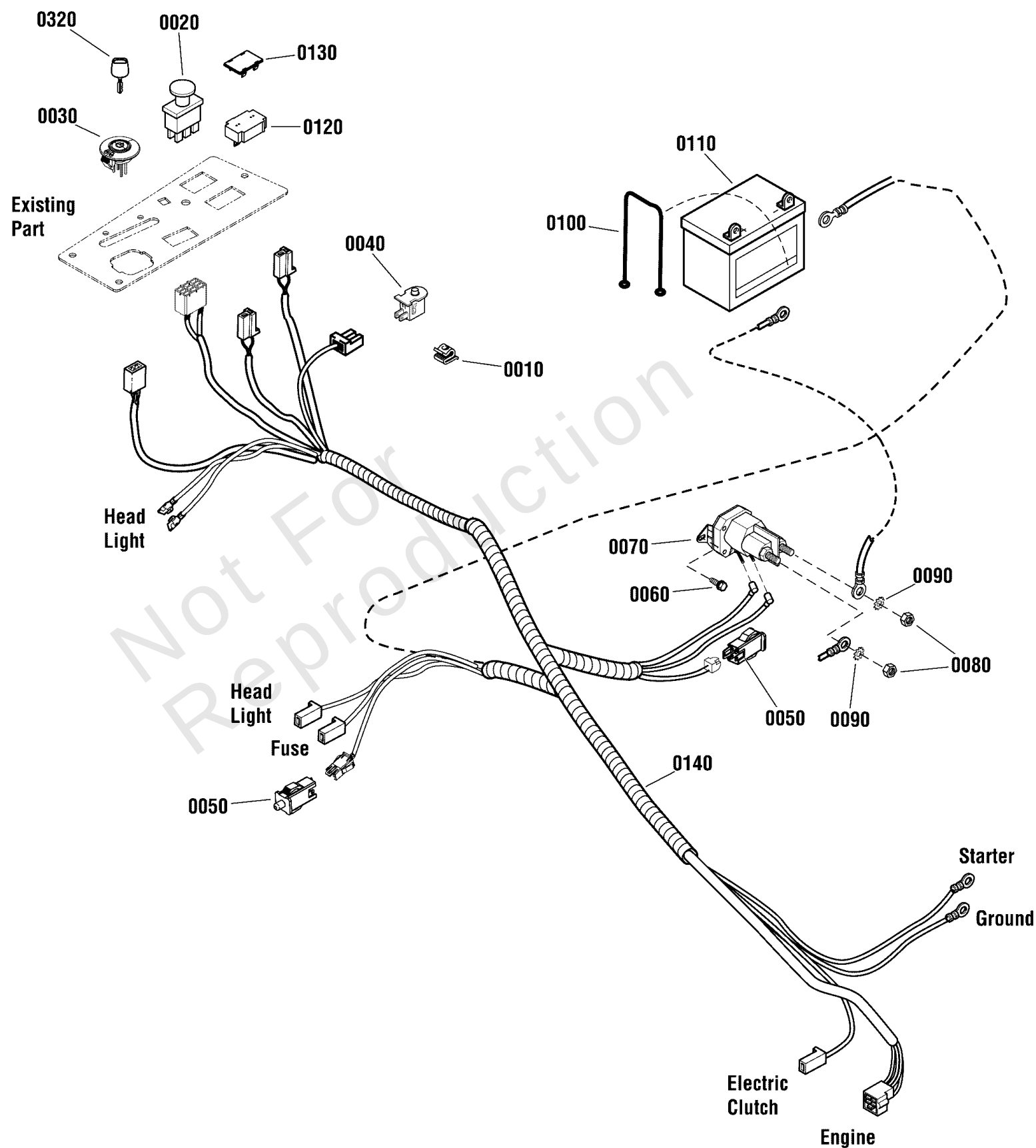
Decals Group (2992364)

REF NO	PART NO	QTY	DESCRIPTION
0010	1760487YP	2	DECAL, FENDER - VICTA ZTX
0020	1760486YP	1	DECAL, BRAND - VICTA
0060	7105868YP	1	DECAL, ENGINE SPEED
0070	1759648YP	1	DECAL, Main Safety
0090	1758366YP	2	DECAL, Tow Valve Release
0100	1759253YP	1	DECAL, HOC
0130	1759724YP	2	DECAL, Tracking Adjustment - ZT
0185	84011099	1	DECAL, Integrated Parking Brake
0200	1755718YP	1	DECAL, 46"/117cm
0210	706111	2	DECAL, DISCHARGE

Electrical Group (2992267)

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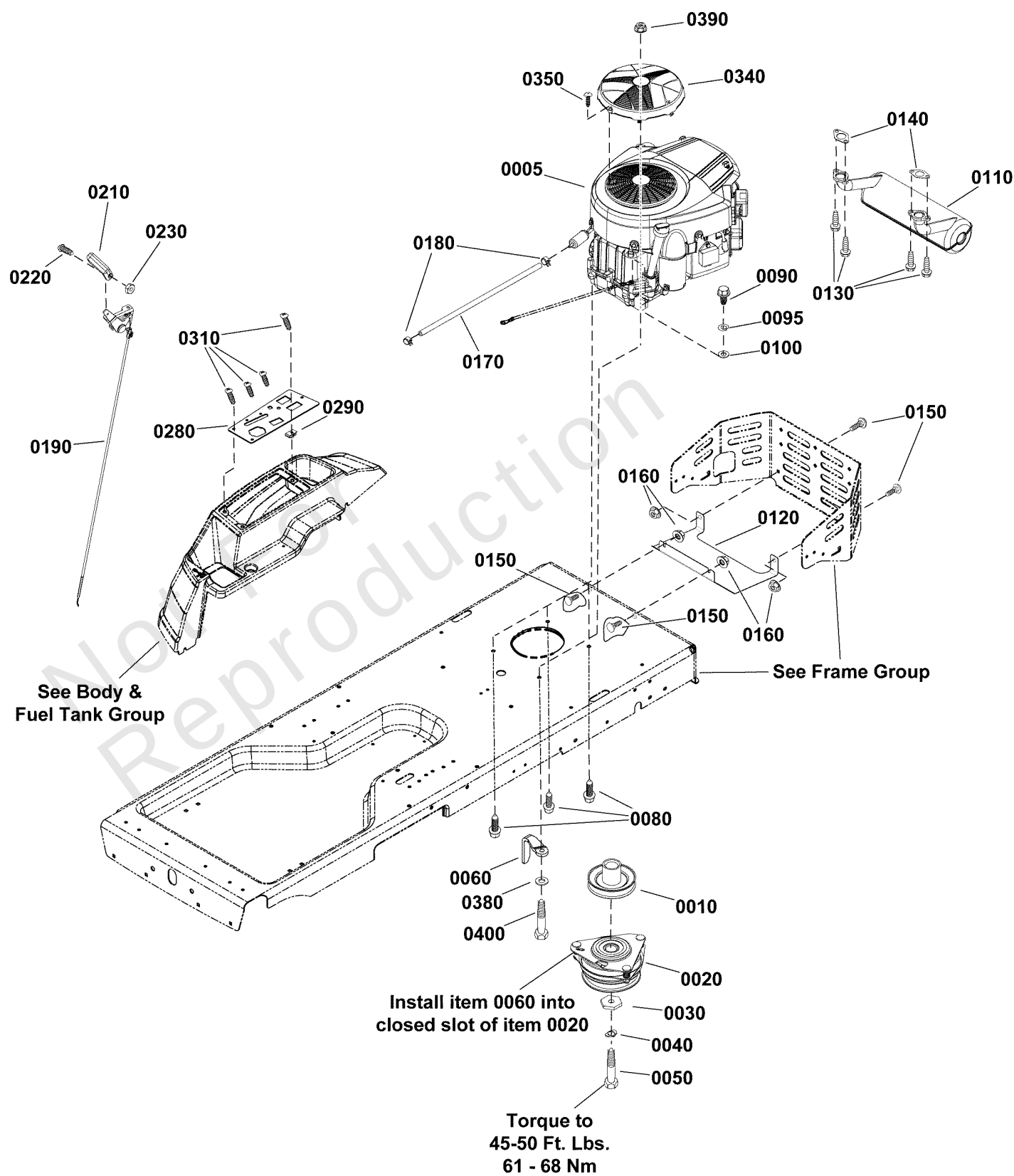
Electrical Group (2992267)

REF NO	PART NO	QTY	DESCRIPTION
0010	2172434SM	1	CLIP- WIRE DIA .390
0020	1722887SM	1	SWITCH-PTO PUSH
0030	7106169YP	1	SWITCH, IGNITION, DEL
0040	7023354YP	1	SWITCH, SEAT
0050	7022886YP	2	SWITCH, DP NO/NC SNAP
0060	1960252SM	2	BOLT-RD HD SH SQ NK 1
0070	1755382YP	1	SOLENOID
0080	703463	2	NUT, GR5,1/4-20
0090	703061	3	NUT, HEX KEPS, 1/4-20
0100	1722009SM	1	STRAP, Rubber, 13"
0320	7106172YP	1	KEY, Ignition Switch - Pack of 2, CE/CAN
0320	7106170YP	1	KEY, Ignition Switch, Pack of 2, NA/AU
0110	-----	1	BATTERY, 12 Volt, 230 CCA
0120	1731185SM	1	METER-HOUR DIGITAL NO
0130	1722611SM	1	PLUG-HOLE BLACK
0140	1758084YP	1	HARNESS, Main, ZTR

Engine Group

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Mfg. No: 2691420-00



Engine Group

REF NO	PART NO	QTY	DESCRIPTION
0005	44N677-0010-G1	1	* ENGINE, B&S Twin, 22GT Intek -Mod. 44N677-0010-G1
0005	40N877-0028-B1	1	* ENGINE, B&S 7220 Series, Twin Intek -Mod. 40N677-0028-B1
0005	40N777-0021-B1	1	* ENGINE, B&S 7220 Series, Twin Intek -Mod. 40N777-0021-B1
0010	1757995YP	1	ASSEMBLY-PULLEY
0020	1736105SM	1	CLUTCH, ELECTRIC
0025	703586	1	TIE, SELF LOCKING -(Not Shown)
0030	1708264SM	1	WASHER, HEX, 0.453ID
0040	704007	1	LCKWSHR, 7/16, SPLIT RE
0050	1960649SM	1	CAPSCREW, Hex Head, 7/16-20 X 3 1/2, G5
0060	1737421AYP	1	GUIDE, Belt
0080	2828635SM	3	SCREW-HEX WSHR HD TAP
0090	703054	1	SCREW, 1/4-20X0.625
0095	703332	1	WASHER
0100	1921880SM	1	LOCKWASHER-EXTERNALTO
0110	1758350YP	1	MUFFLER
0120	1759502AYP	1	SHIELD, Heat
0130	690341	4	SCREW
0140	690970	2	GASKET, Exhaust
0150	703185	4	BOLT, Round Head, Short Square Neck
0160	703115	4	NUT
0170	791766	1	LINE, Fuel
0180	93053B	2	CLAMP, Hose
0190	1759204YP	1	CONTROL, Throttle, 40"
0210	1739312YP	1	KNOB, THROTTLE
0220	797483	1	SCREW
0230	703460	1	NUT, Hex #8-32
0280	1759429AYP	1	PANEL, Control
0290	705876	3	NUT
0310	7090999SM	5	SCREW, Phillips Head, 1/4-20 X 5/8
0340	797420YP	1	GUARD, Debris Screen
0350	799359	1	SCREW
0380	5025155SM	1	WASHER, 5/16
0390	5025392SM	1	NUT, Ny Lock Flange, 5/16-18
0400	5025011X14SM	1	BOLT, 5/16-18 X 1-3/4

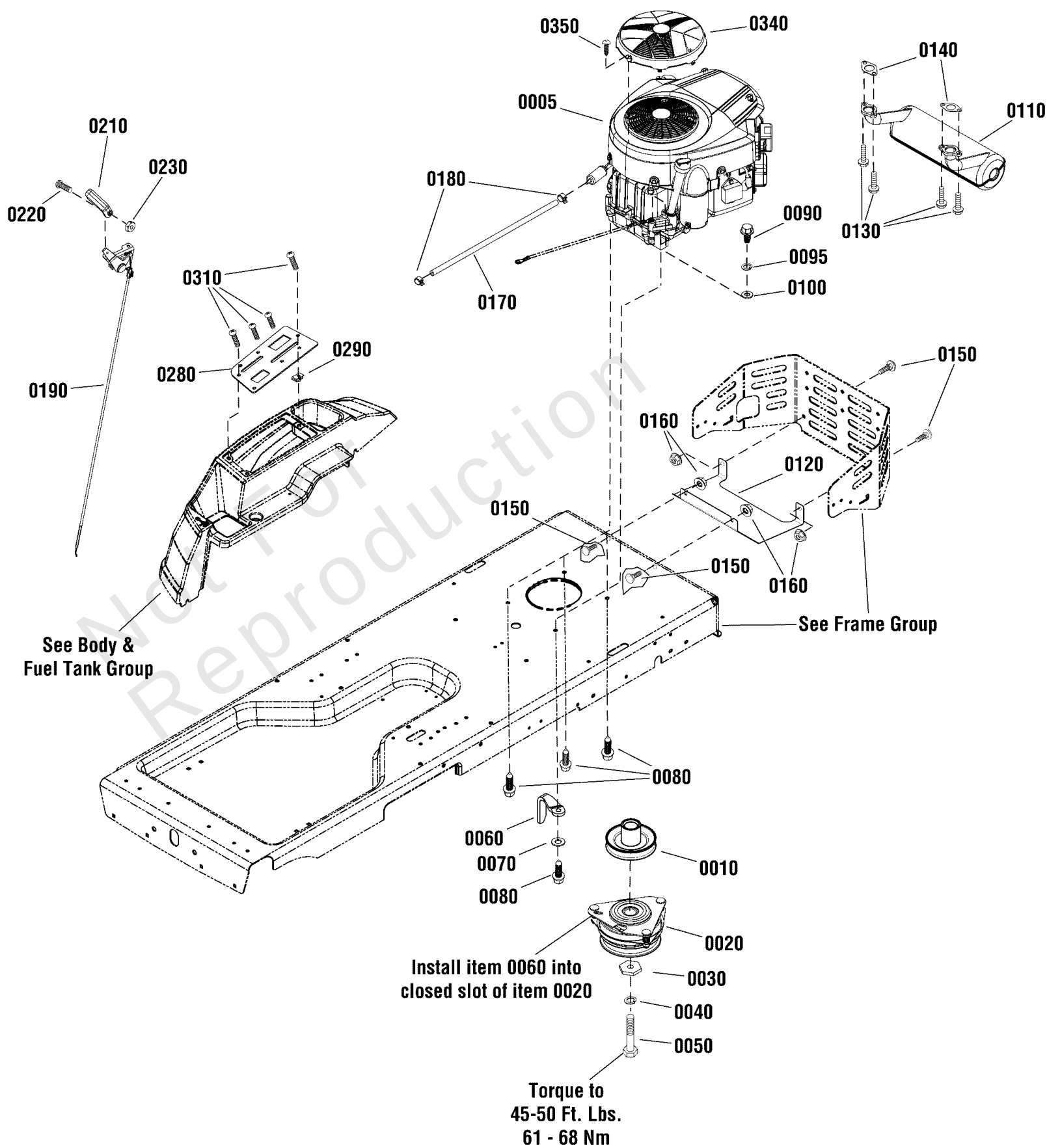
Footnotes:

Note:* See your local Briggs & Stratton distributor for parts & service.

Engine Group (2991628_2991974)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691420-00



Engine Group (2991628_2991974)

REF NO	PART NO	QTY	DESCRIPTION
0005	-----	1	* ENGINE, 23 Gross HP B&S PRO Series Twin -(Engine Model: 44S777-0017-G1)
0005	-----	1	* ENGINE, 25 Gross HP B&S PRO Series Twin -(Engine Model: 44S977-0022-G1)
0010	1757995YP	1	ASSEMBLY-PULLEY
0020	1736105SM	1	CLUTCH, ELECTRIC
0030	1708264SM	1	WASHER, HEX, 0.453ID
0040	704007	1	LCKWSHR,7/16,SPLIT RE
0050	1960649SM	1	CAPSCREW, Hex Head, 7/16-20 X 3 1/2, G5
0060	1737421AYP	1	GUIDE, Belt
0070	703878	1	WASHER, FLAT
0080	2828635SM	4	SCREW-HEX WSHR HD TAP
0090	703054	1	SCREW, 1/4-20X0.625
0095	703332	1	WASHER
0100	1921880SM	1	LOCKWASHER-EXTERNALTO
0110	1758350YP	1	MUFFLER
0120	1759502AYP	1	SHIELD, Heat
0130	690341	4	SCREW
0140	690970	2	GASKET, Exhaust
0150	703185	4	BOLT, Round Head, Short Square Neck
0160	703115	4	NUT
0170	327290MA	1	HOSE, Fuel
0180	93053B	2	CLAMP, Hose
0190	1759205YP	1	CONTROL-THROTTLE
0210	1739312YP	1	KNOB, THROTTLE
0220	797483	1	SCREW
0230	703460	1	NUT, Hex #8-32
0280	1759430AYP	1	PANEL, Control (Used on Push Button Start)
0280	1759429AYP	1	PANEL, Control (Used on Key Start)
0290	705876	3	NUT
0310	7090999SM	5	SCREW, Pan Head, 1/4-20 X 5/8
0340	797420YP	1	GUARD, Debris Screen
0350	799359	1	SCREW

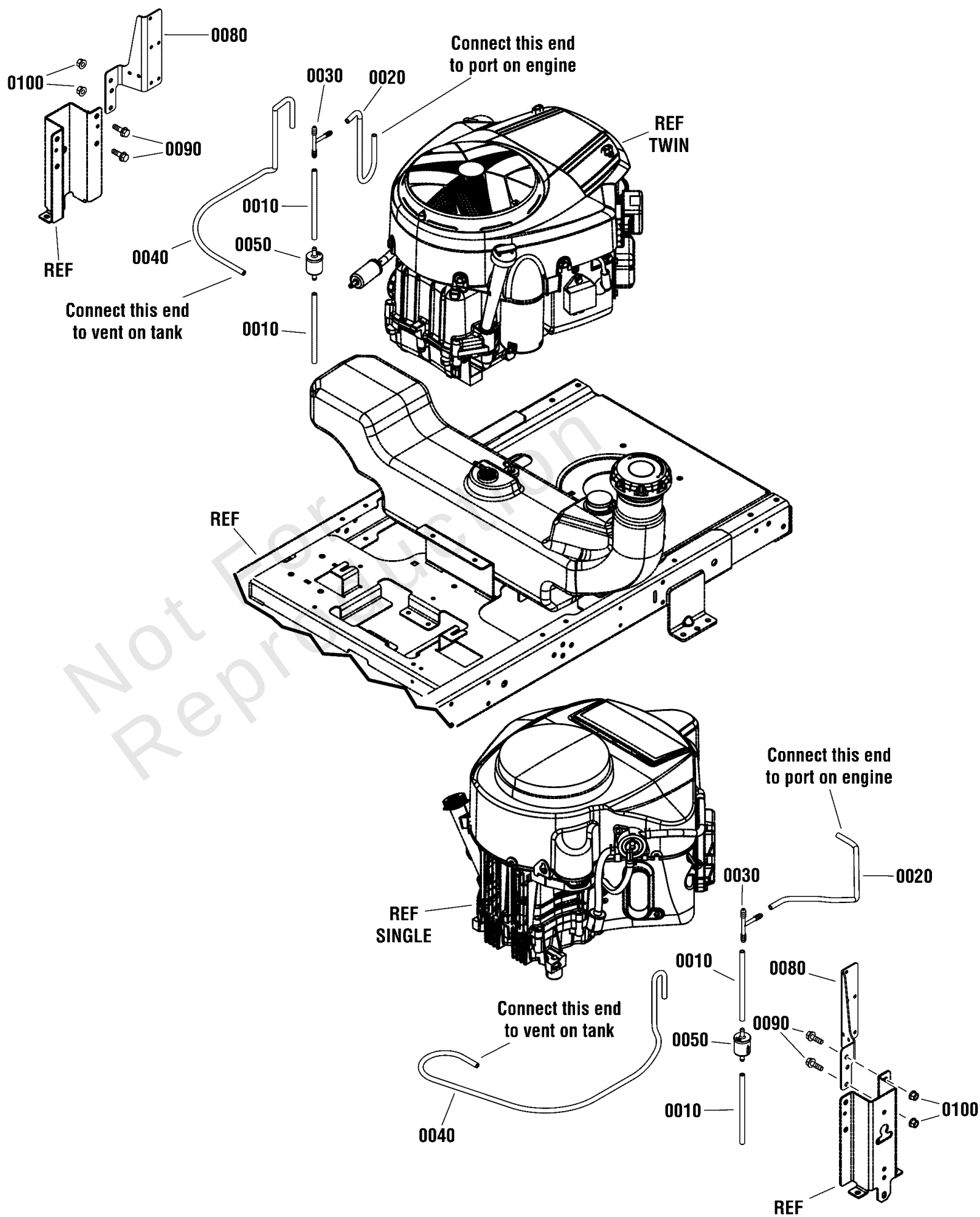
Footnotes:

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EVAP Group

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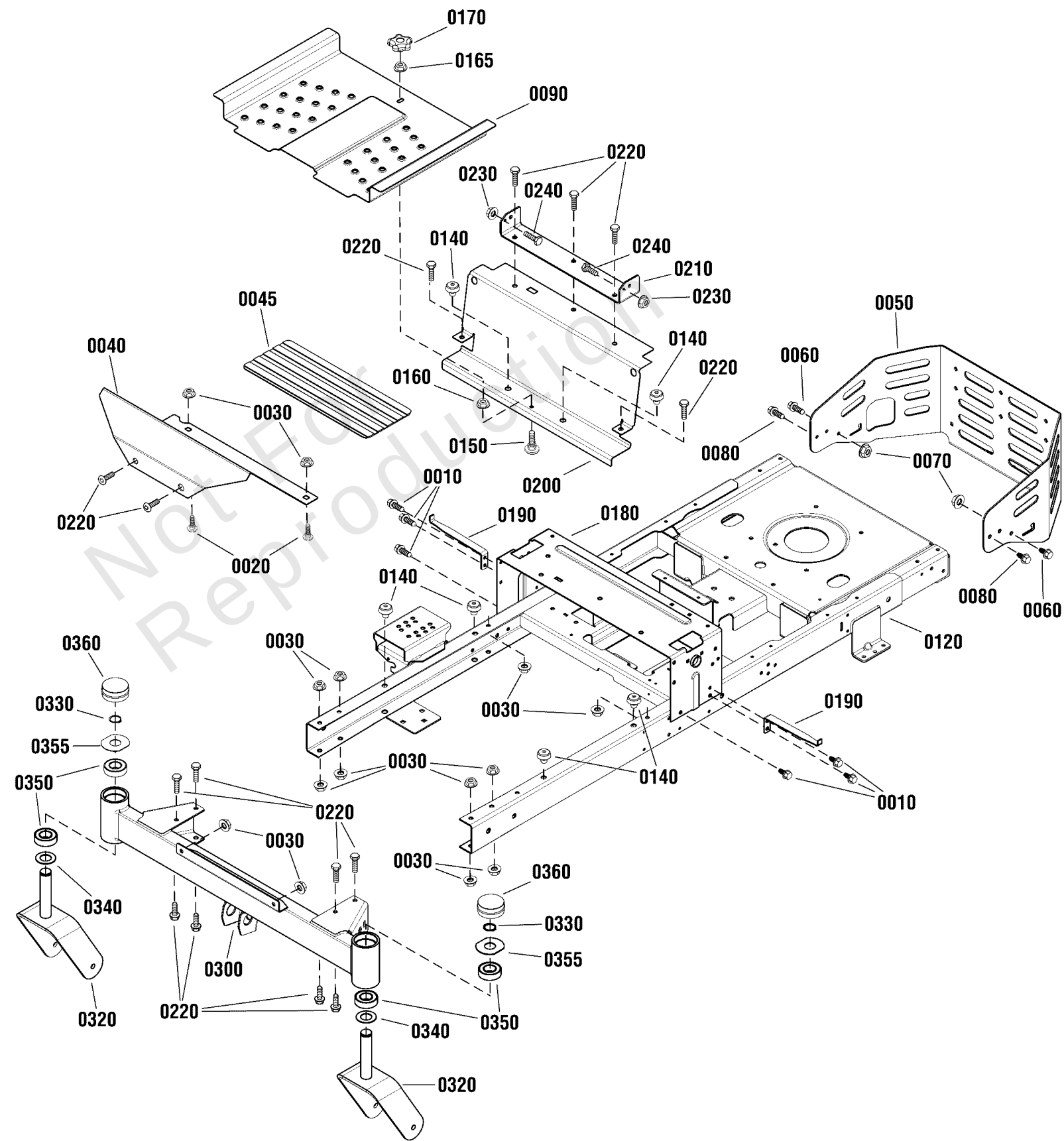
EVAP Group

REF NO	PART NO	QTY	DESCRIPTION
0010	7700552X6YP	2	HOSE-VAPOR
0020	7700552X12YP	1	HOSE, VAPOR,5MM ID,12
0030	5103062YP	1	FITTING, 3/16" TEE, B
0040	7700552X26YP	1	HOSE, Vapor, 5 MM ID, 26.00 LG
0050	84001895	1	FILTER, Fuel
0070	5021030SM	5	TIE WRAP, 5-1/2" LONG -(Not Shown)
0080	1760538AYP	1	BRACKET
0090	703410	2	BOLT,5/16-18X1
0100	703115	2	NUT

Frame Group (2991635)

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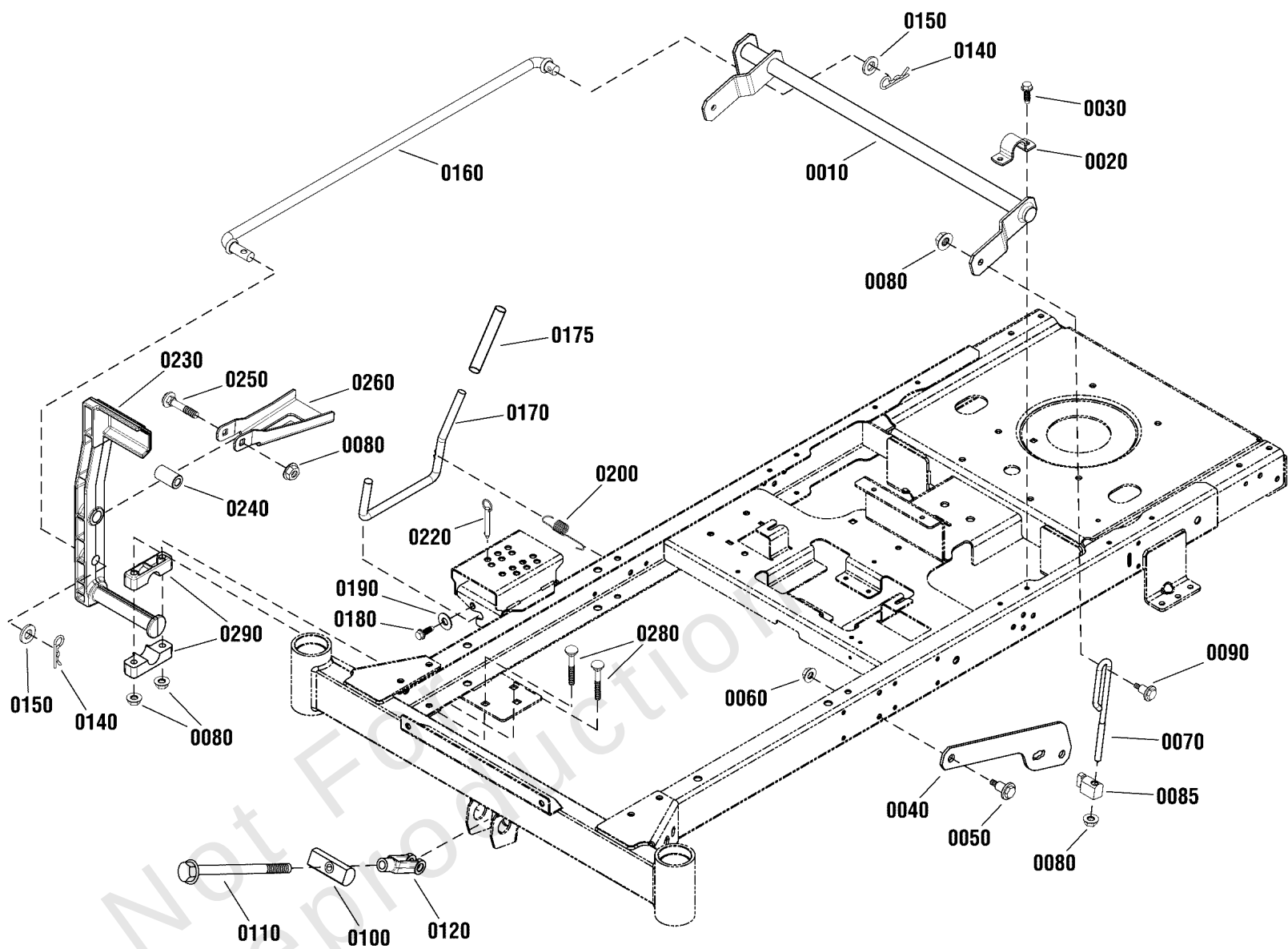
Frame Group (2991635)

REF NO	PART NO	QTY	DESCRIPTION
0010	703949	6	SCREW, 5/16-18.625
0020	703448	2	BOLT, 3/8-16X.75 G5
0030	5025394SM	17	NUT, 3/8-16 HEX NYLOCK
0040	1758894DYP	1	FOOTREST
0045	5101374YP	1	SAFETY WALK, FLOOR RE
0050	1759501DYP	1	BUMPER, Rear
0060	703410	2	BOLT,5/16-18X1
0070	703115	2	NUT
0080	1664847CAYP	2	SCREW, Washer Head, 5/16-18 X 3/4
0090	1757813DYP	1	PAN, Foot
0120	----	1	FRAME , Fixed
0140	197546GS	6	MOUNT-VIBRATION
0150	7090496YP	1	RHSSNB, 1/4C X1 GR5 Z
0160	703233	1	NUT, 1/4-20, GR5
0165	703954	1	NUT, Centerlock, 1/4-20, GR5
0170	707785	1	KNOB
0180	1758010DYP	1	BRACKET, Control
0190	1758240AYP	2	BRACKET, Fender
0200	1757796DYP	1	BRACKET, Brand
0210	1758835DYP	1	BRACKET, Seat
0220	707790	15	SCREW, Button Head, 3/8-16 X .88
0230	5025339YP	2	NUT
0240	707790	2	NUT, Hex NyLock, 8-32 x 1/2
0300	1757819DYP	1	AXLE, Front
0320	1757845DYP	2	CASTER, Front
0330	703993	2	RETAINER, EXT RING, 1
0340	703199	2	WASHER, 1
0350	1758354YP	4	BEARING
0355	1722726SM	2	WASHER
0360	1725651SM	2	COVER, Spindle

Lift Group (2991613)

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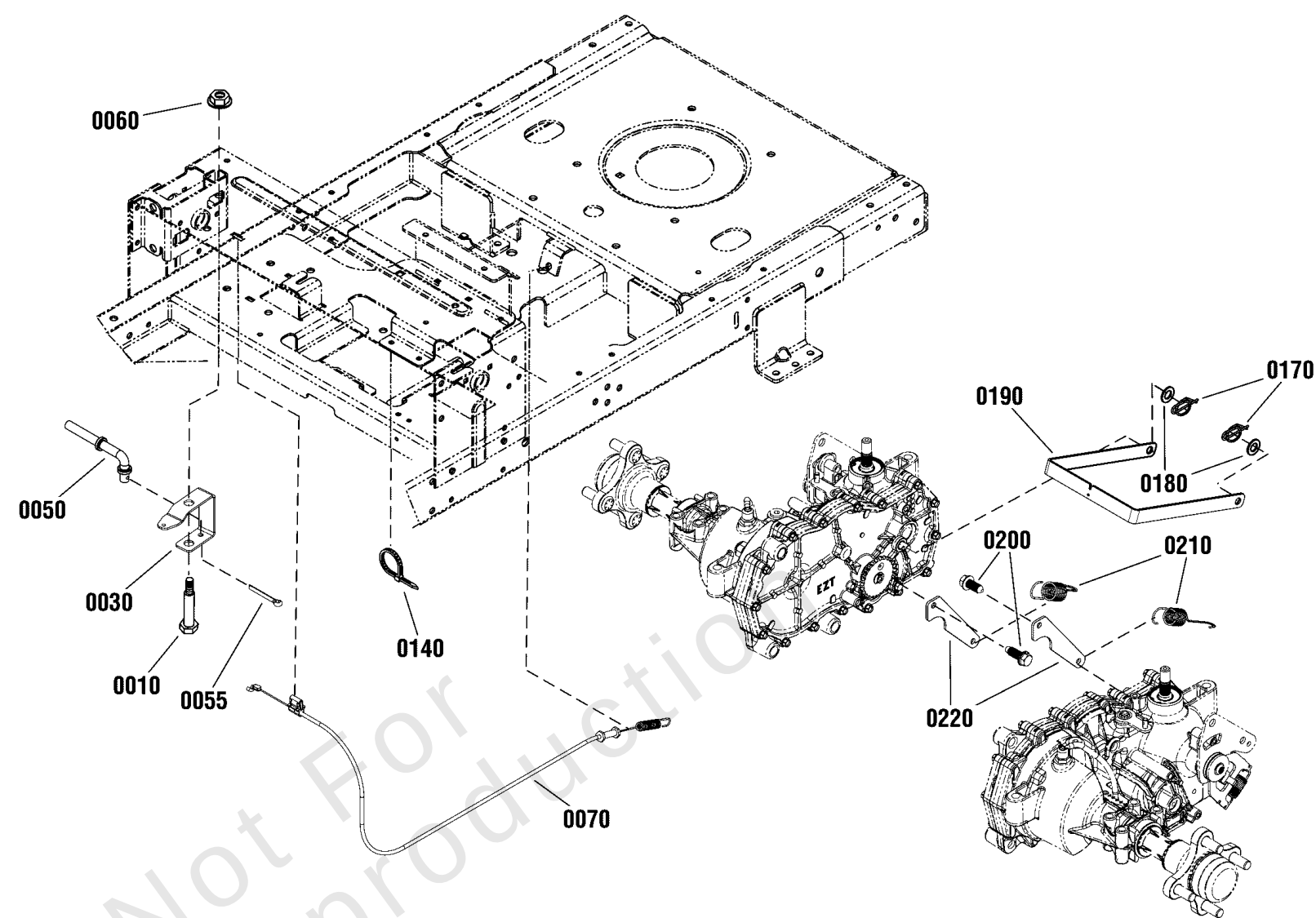
Lift Group (2991613)

REF NO	PART NO	QTY	DESCRIPTION
0010	1757958AYP	1	SHAFT
0020	1720147BZYP	2	STRAP, 1 IN. DIA
0030	703949	4	SCREW, 5/16-18.625
0040	1757953AYP	2	ARM, Lift
0050	1732426SM	2	BOLT-SHLDR 5/16-18 0.
0060	703115	2	NUT
0070	1757936YP	2	ROD, Lift
0080	703158	9	NUT, Hex Flange, 3/8-16
0085	1731894SM	2	TRUNNION
0090	009X51MA	2	BOLT-SHD.38-16X.499D
0100	1757955YP	1	PIVOT
0110	1757954YP	1	ROD
0120	5023174SM	1	CLEVIS, 1/2-20, STEEL
0140	703300	2	PIN, 3/32 X 1.6
0150	5025281SM	2	WASHER, 5/8" SAE
0160	1758121YP	1	ROD
0170	5105717YP	1	ROD
0175	5021880SM	1	GRIP, FOAM
0180	703054	2	SCREW, 1/4-20X0.625
0190	5025288YP	2	WASHER, 1/4 FENDER
0200	1758283YP	1	SPRING, EXTENSION
0220	5103021YP	1	HITCH PIN, 3/8 X 2-1/
0230	1758232YP	1	PEDAL
0240	1756612YP	1	BUSHING, DIFF. LOCK
0250	7900009SM	1	RHSSNB, 3/8-16 X 2-1/
0260	1758284AYP	1	BRACKET
0280	1960615SM	4	BOLT-RD HD SQ NK 3/8
0290	5100634SM	4	PIVOT BLOCK, PLASTIC

Parking Brake Group (2991641)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691420-00



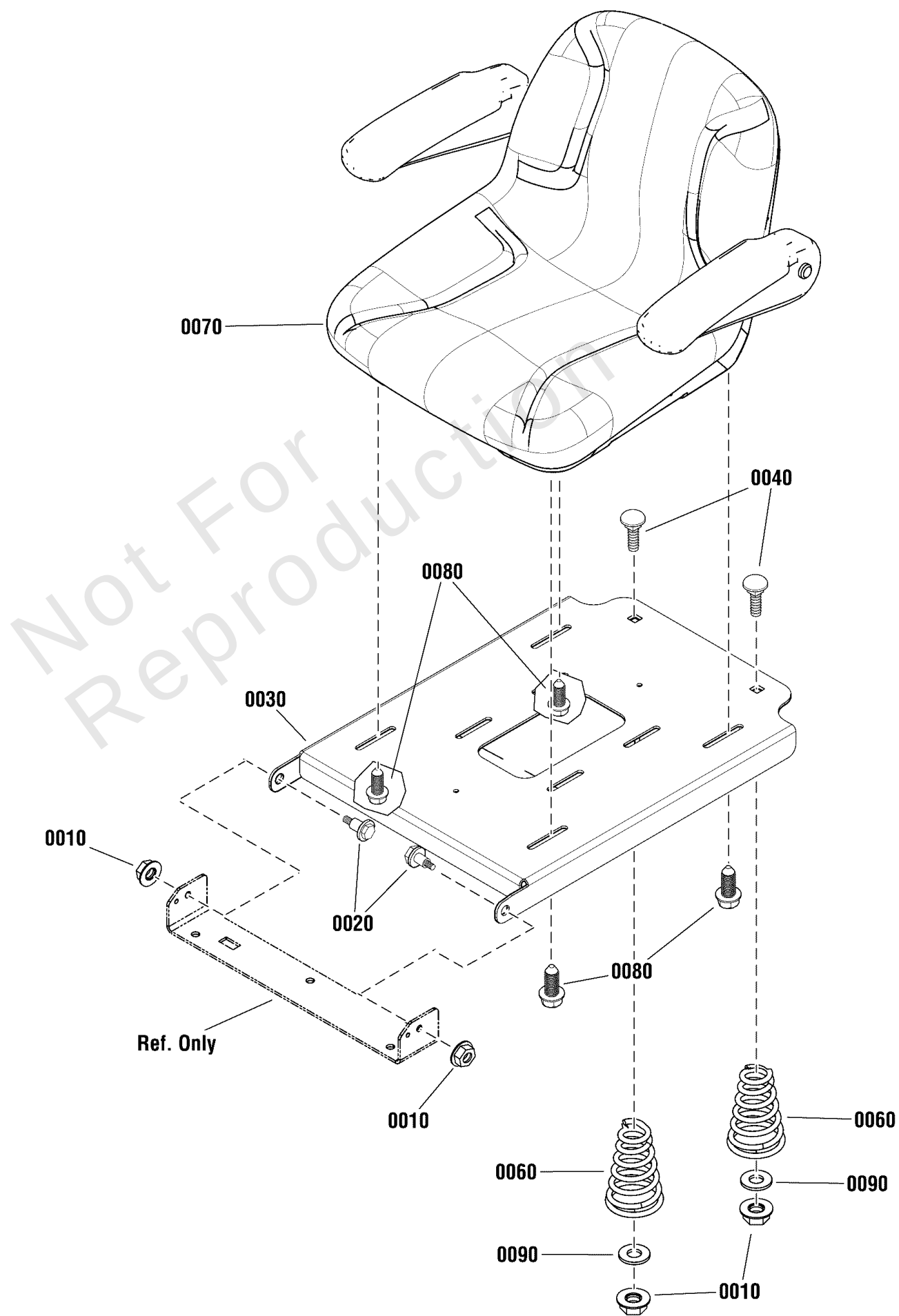
Parking Brake Group (2991641)

REF NO	PART NO	QTY	DESCRIPTION
0010	1736539YP	1	BOLT, SHOULDER
0030	1758091YP	1	BELLCRANK, Parking Brake
0050	1758088YP	1	ROD, Parking Brake
0055	703312	1	PIN, COTTER, 3/32X.75
0060	703158	1	NUT, Hex Flange, 3/8-16
0070	1759207YP	1	CABLE, PARKING BRAKE
0140	703586	1	TIE, SELF LOCKING
0170	7091594SM	2	COTTER PIN, 1/2 SELF,
0180	703946	2	WASHER, .39IDX.72OD
0190	1758126AYP	1	ARM, Parking Brake
0200	708964	2	SCREW
0210	1758283YP	2	SPRING, EXTENSION
0220	1759349YP	2	BRACKET, Spring

Seat Group (2992159)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691420-00



Seat Group (2992159)

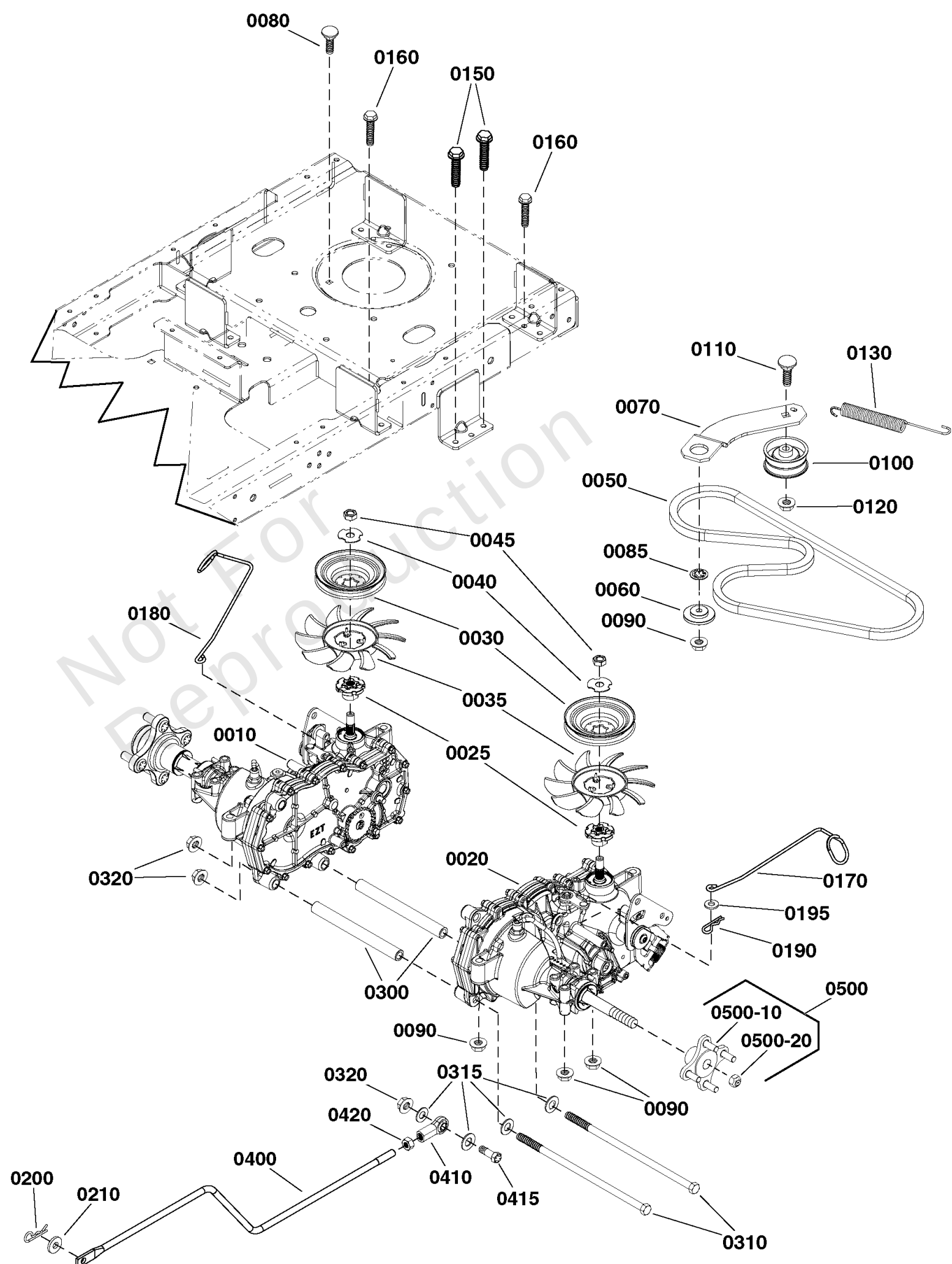
REF NO	PART NO	QTY	DESCRIPTION
0010	703115	4	NUT
0020	1752802YP	2	BOLT, SHLDR, 5/16-18
0030	1757799DYP	1	SLIDE, Seat (Red)
0040	703483	2	BOLT,5/16-18X1.000,RO
0060	1717051SM	2	SPRING, Seat Conical .94/1.76 MD, 2.95 LG, .177 Wire
0070	1687857	1	KIT, Seat, 15" , W/Armrests
0080	1960667SM	4	SCREW, 5/16-18X1.0, Hex Flanged Whiz Lock
0090	704128	2	WASHER

Not For Reproduction

Transmission Group (2991931)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691420-00



Transmission Group (2991931)

REF NO	PART NO	QTY	DESCRIPTION
0010	1759443YP	1	TRANSMISSION, Hydro Gear, RH -(Refer to Note: *) (Model No: ZD-DUBB-2A7C-2XPX)
0020	1759444YP	1	TRANSMISSION, Hydro Gear, LH -(Refer to Note: *) (Model No: ZD-AUBB-2A7B-3XPX)
0025	1759450YP	2	SPACER
0030	1759447YP	2	PULLEY, Transmission
0035	1759448YP	2	FAN, Input
0040	5102914YP	2	WASHER, ZT5400, SLOTT
0045	5102916YP	2	NUT, ZT5400
0050	1758100YP	1	BELT-TRANSMISSION
0060	1727935SM	1	SPACER-PIVOT 0.330ID
0070	1758044AYP	1	ARM, Idler
0080	703800	1	BOLT, CRRG, 5/16-18X1
0085	703297	1	RETAINER, GR5, 5/16
0090	703115	9	NUT
0100	1668477SM	1	PULLEY, Idler, 2.25" OD, .378 ID
0110	703879	1	BOLT, SQ, 3/8-16X1.75
0120	5025394SM	1	NUT, 3/8-16 HEX NYLOCK
0130	1758045YP	1	SPRING-EXTENSION
0150	707943	4	SCREW
0160	707944	4	SCREW, Washer Head, 5/16-18 X 2 1/4
0170	1759245YP	1	ROD, Release, LH
0180	1759246YP	1	ROD, Release, RH
0190	1722460SM	2	PIN, Hair
0195	703332	2	WASHER
0200	703300	2	PIN, 3/32 X 1.6
0210	704128	2	WASHER
0300	1759392YP	2	SPACER, Transmission
0310	707945	2	CAPSCREW, HexHead, 7/16-14 X 11 1/4
0315	703183	6	WASHER, 7/16 ID X.065
0320	1930650SM	4	NUT-HEX FLANGE 7/16-1
0400	1757966YP	2	ROD, Control
0410	1759799YP	2	ROD, 7/16-20 RH, Female
0415	703579	2	HHCS, 7/16-14X1.25
0420	7090460SM	2	NUT, 7/16F, GR5, Hex
0500	7600158YP	1	KIT, Hub Replacement -(Includes Ref. 0500-10 & 0500-20)
0500-10	-----	1	HUB, EZT Transmission
0500-20	-----	1	NUT, EZT Transmission

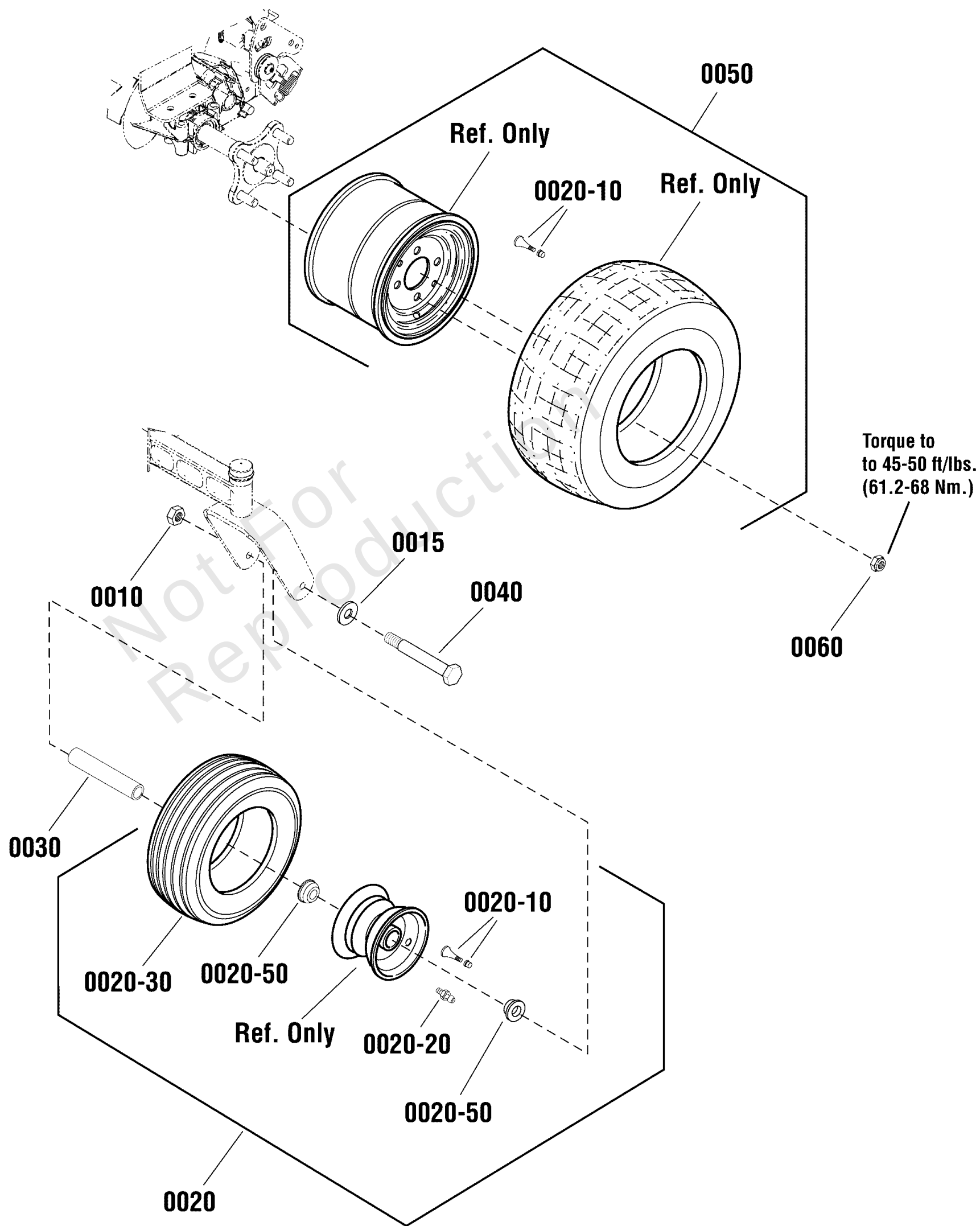
Footnotes:

Note *See your local Hydro Gear dealer for parts and service.

Wheel & Tire Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691420-00



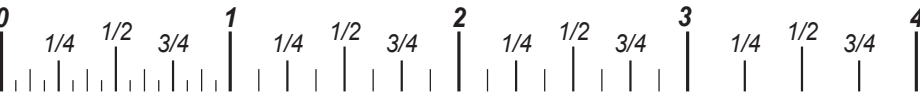
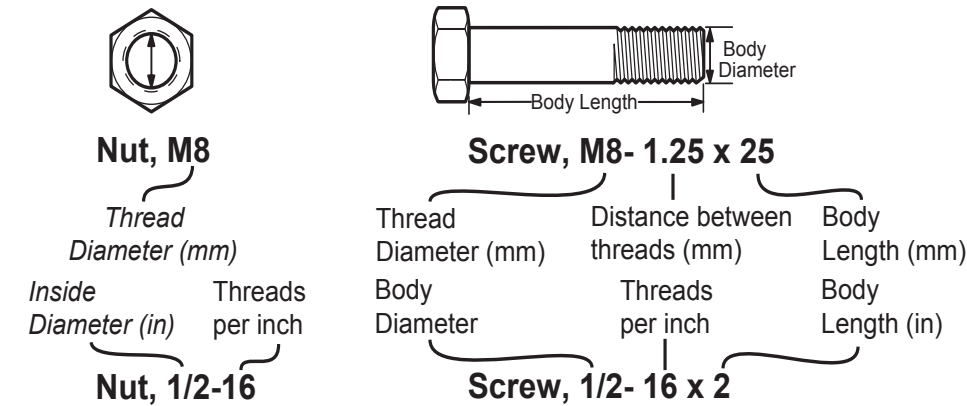
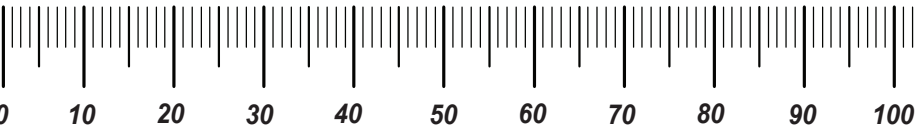
Wheel & Tire Group

REF NO	PART NO	QTY	DESCRIPTION
0010	7090839SM	2	NUT, Hex Center Lock, 7/16-14, GR 5 or B
0015	703183	2	WASHER, 7/16 ID X.065
0020	1734013SM	2	WHEEL & TIRE ASSY -(Includes Ref. Nos. 0020-10, 0020-20, 0020-30 & 0020-50)
0020-10	2172353SM	1	VALVE STEM & CAP
0020-20	7104428YP	1	ZERK, Grease
0020-30	1734875SM	1	TIRE, 11 X 4-5
0020-50	1739281YP	2	BUSHING, 0.632ID, 1.377OD, 0.62 LG
0030	1734841SM	2	SPACER - CASTER
0040	7091772SM	2	HHCS, 7/16C X6 GR5 YZ
0050	1758998YP	2	ASSEMBLY, Wheel & Tire, 18 X 8.5-8 (K505)
0060	7027192SM	8	LUG NUT, 1/2 - 20 Tapered Seat

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).

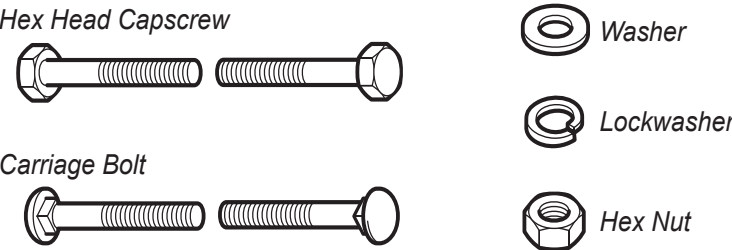
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

VICTA