



Parts Manual

Mfg. No: 2691926-00

SLT175, 7220 Lawn Tractor and 107cm
Mower Deck (CE/Export)

1697447-00 - 42" (107cm) Mower Deck - Rear Eject Configuration Kit.	
1697446-00 - 42" (107cm) Mower Deck - Side Discharge Configuration Kit.	
1697537-00 - Group, Roller HOZ, CC 42", 48".	

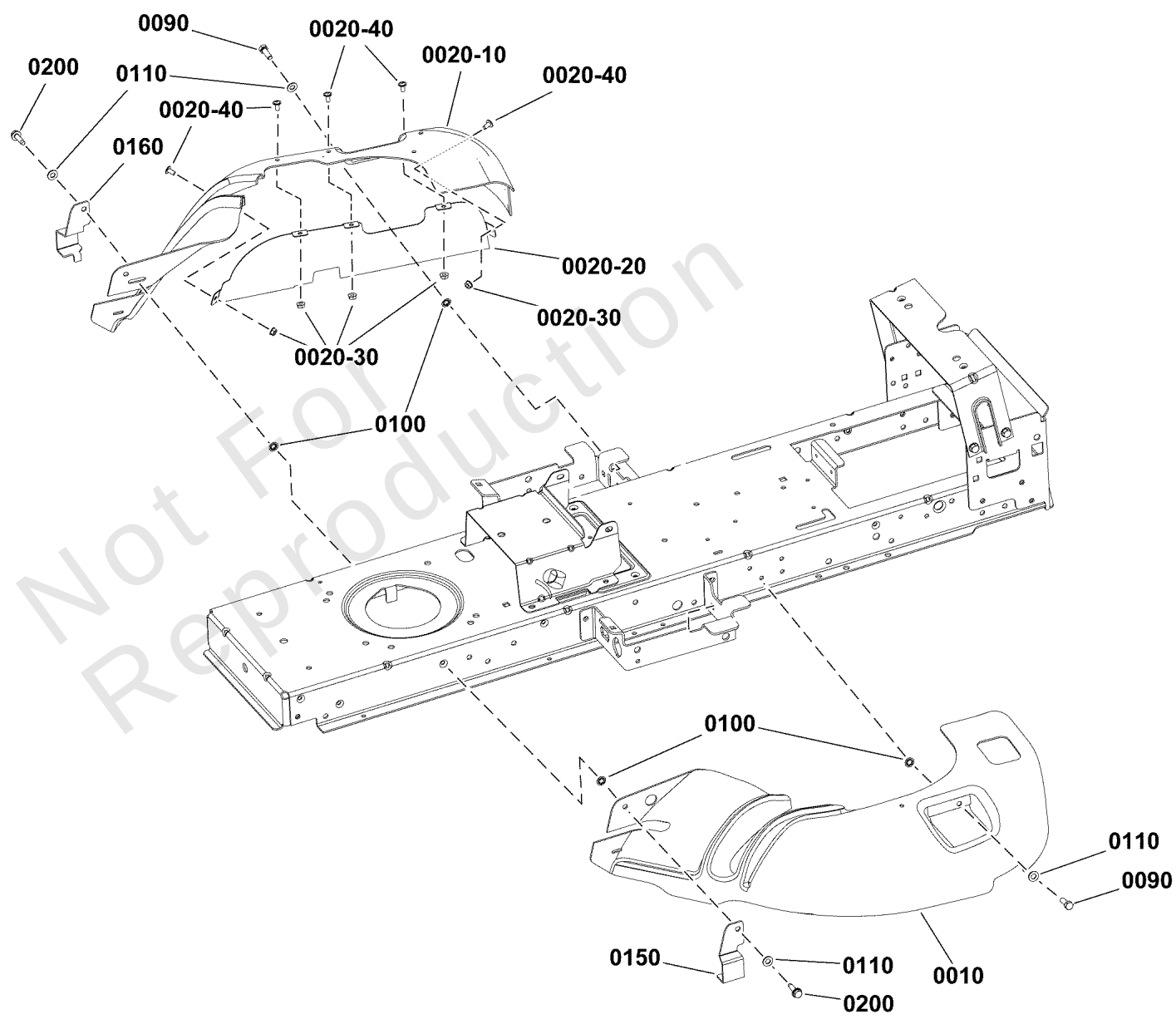
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42" (107cm) Mower Deck - Bubble Guarding Group

Note: Unless noted otherwise, use the standard torque specifications

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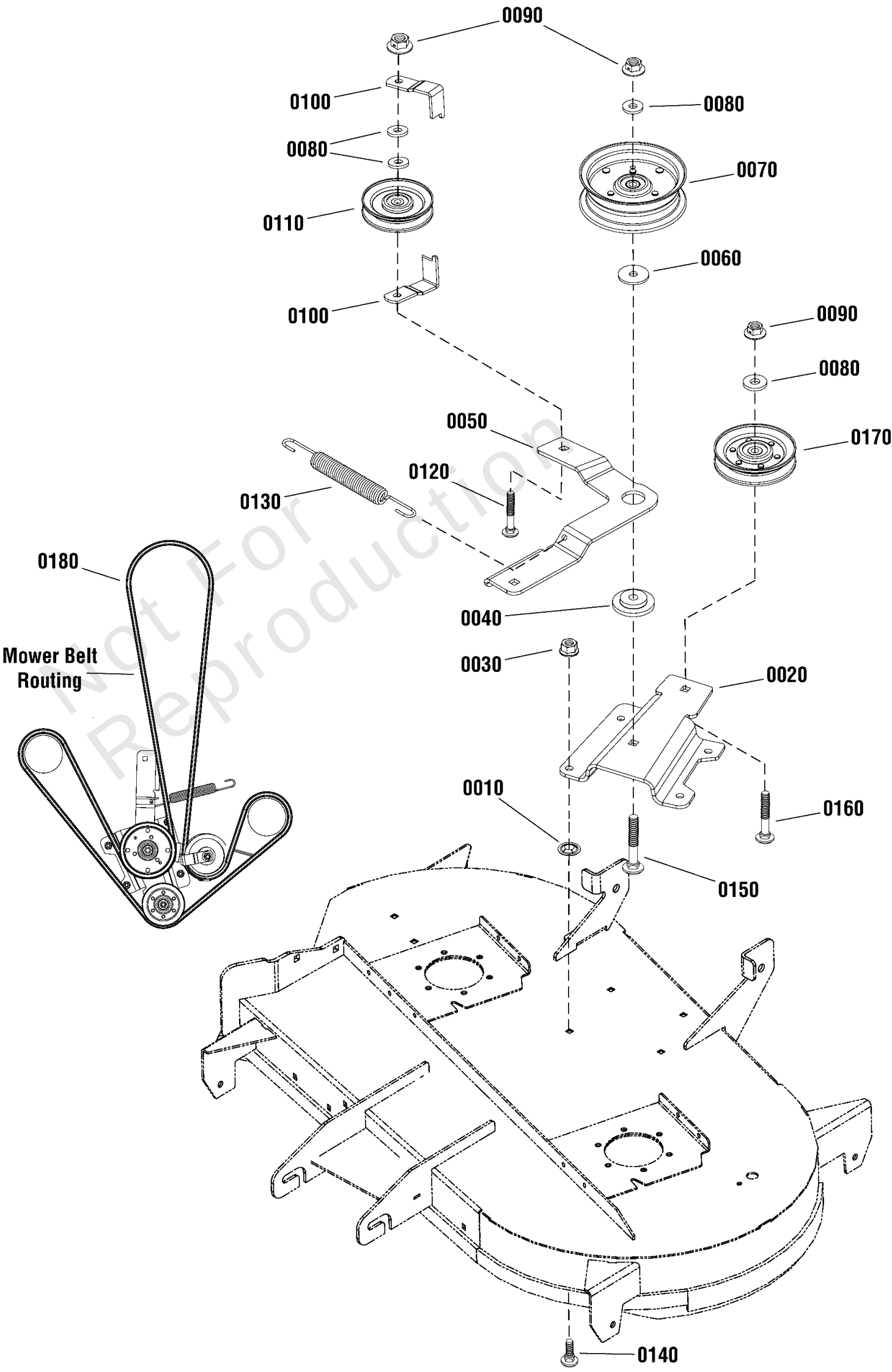
42" (107cm) Mower Deck - Bubble Guarding Group

REF NO	PART NO	QTY	DESCRIPTION
0010	84004032	1	GUARD, LH
0020-10	84004030	1	GUARD, RH
0020-20	84004033	1	PLATE, GUARD, RIGHT
0020-30	15X143MA	5	NUT,25-20 HEX FLG CTR
0020-40	5025299X4SM	5	SCREW, ALLEN HEAD 1/4-20 X .500 ZINC PHOS
0090	703408	2	CAPSCREW, 5/16-18
0100	703297	4	RETAINER, GR5, 5/16
0110	703350	4	WASHER
0150	1759985BMYP	1	SUPPORT, Guarding, L.H.
0160	1759989BMYP	1	SUPPORT, Guarding, R.H.
0200	704146	2	SCREW, HEX, 5/16-18X1

42" (107cm) Mower Deck - Clutch Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691926-00



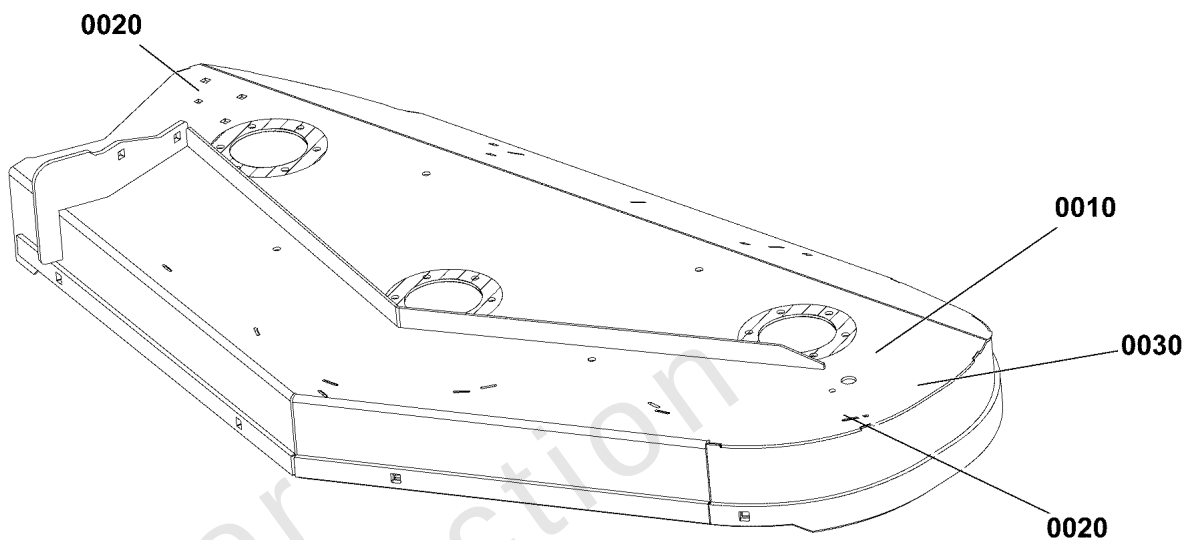
42" (107cm) Mower Deck - Clutch Group

REF NO	PART NO	QTY	DESCRIPTION
0010	703297	4	RETAINER, GR5, 5/16
0020	1758542BMYP	1	BRACKET, Idler
0030	703115	4	NUT
0040	706128	1	SPACER, IDLER
0050	1759359BMYP	1	ARM, Idler
0060	703591	1	WASHER, .406X1.5X.12
0070	1757894YP	1	PULLEY, Flat Idler, 4.5"
0080	704128	4	WASHER
0090	1960339SM	3	NUT, Hex Flange, 3/8-16
0100	706131	2	GUARD, Spring
0110	7018574SM	1	IDLER, Flat, 4 1/8
0120	7900009SM	1	RHSSNB, 3/8-16 X 2-1/
0130	1734316SM	1	SPRING, Extension, 7.88 LG
0140	703225	4	BOLT
0150	1960615SM	1	BOLT-RD HD SQ NK 3/8
0160	703858	1	BOLT, 3/8-16X1.75
0170	885937YP	1	PULLEY, Idler 4.00
0180	1758984YP	1	BELT, Aramid

42" (107cm) Mower Deck - Decals Group

Note: Unless noted otherwise, use the standard torque specifications

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0010



0020



0030

42" (107cm) Mower Deck - Decals Group

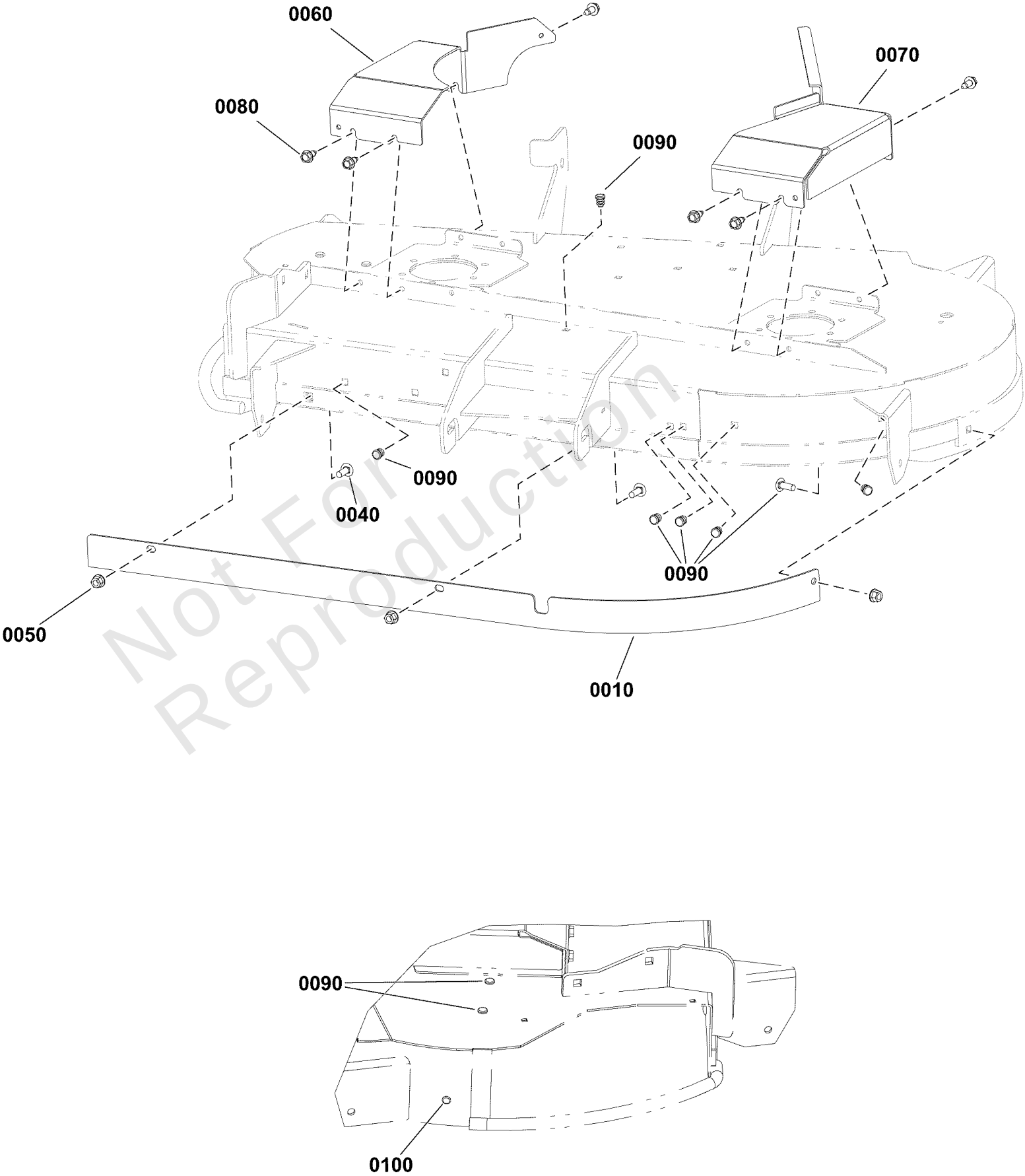
REF NO	PART NO	QTY	DESCRIPTION
0010	1755716YP	1	DECAL, 42"/107cm
0020	706111	2	DECAL, DISCHARGE
0030	84005432	1	DECAL, Centrecut

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42" (107cm) Mower Deck - Guard Group

Note: Unless noted otherwise, use the standard torque specifications

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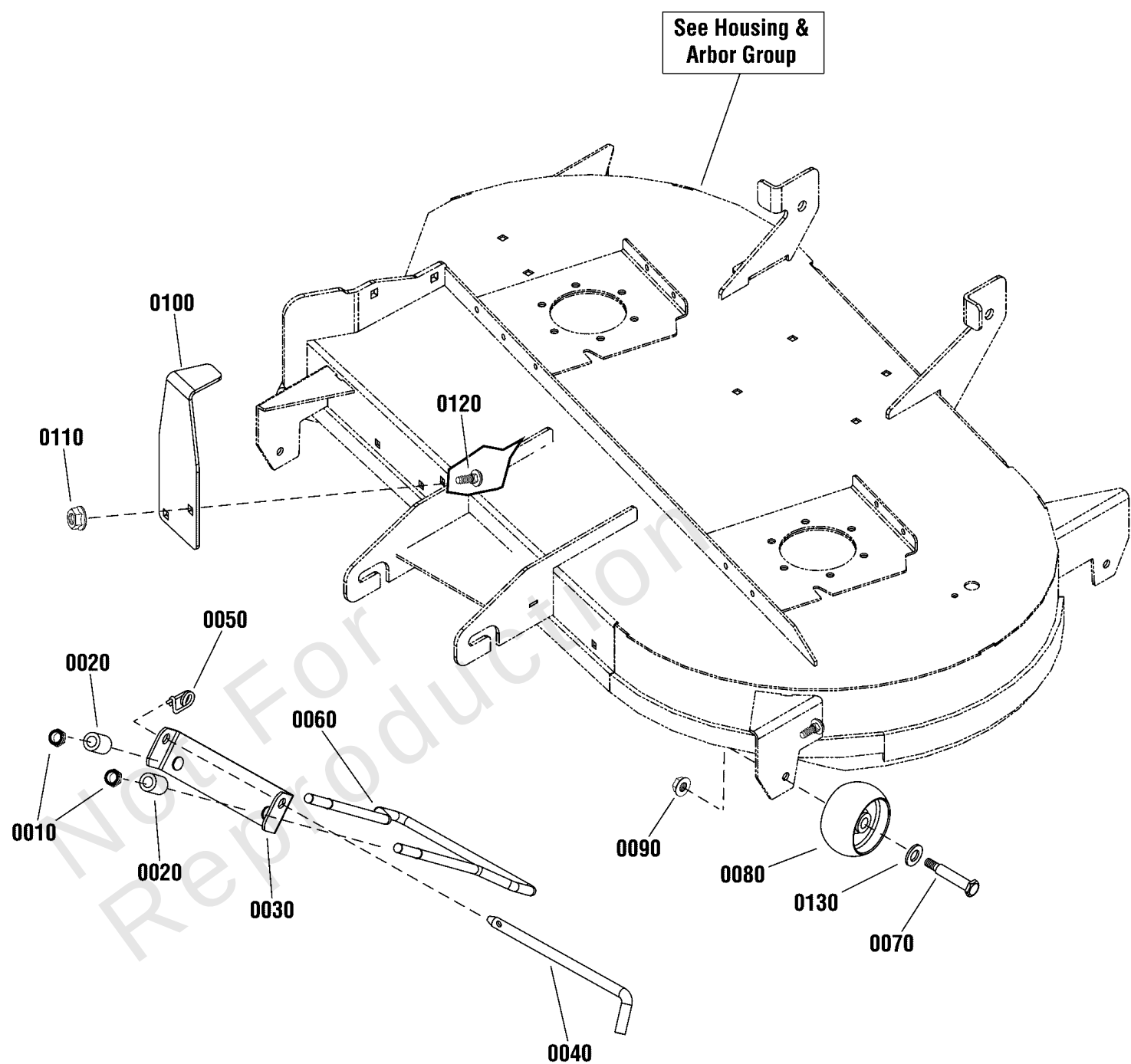
42" (107cm) Mower Deck - Guard Group

REF NO	PART NO	QTY	DESCRIPTION
0010	84007259	1	BAFFLE, Blowout
0040	704065	3	BOLT, 5/16-18X.875
0050	703115	3	NUT
0060	84004035	1	GUARD, Belt
0070	84004036	1	GUARD, Belt
0080	703228	6	SCREW, 5/16-18 X .75
0090	7046780SM	8	PLUG, Hole, .44" OD
0100	7073293YP	1	PLUG, Hole, .30 OD

42" (107cm) Mower Deck - Height Adjustment & Roller Bar Group

Note: Unless noted otherwise, use the standard torque specifications

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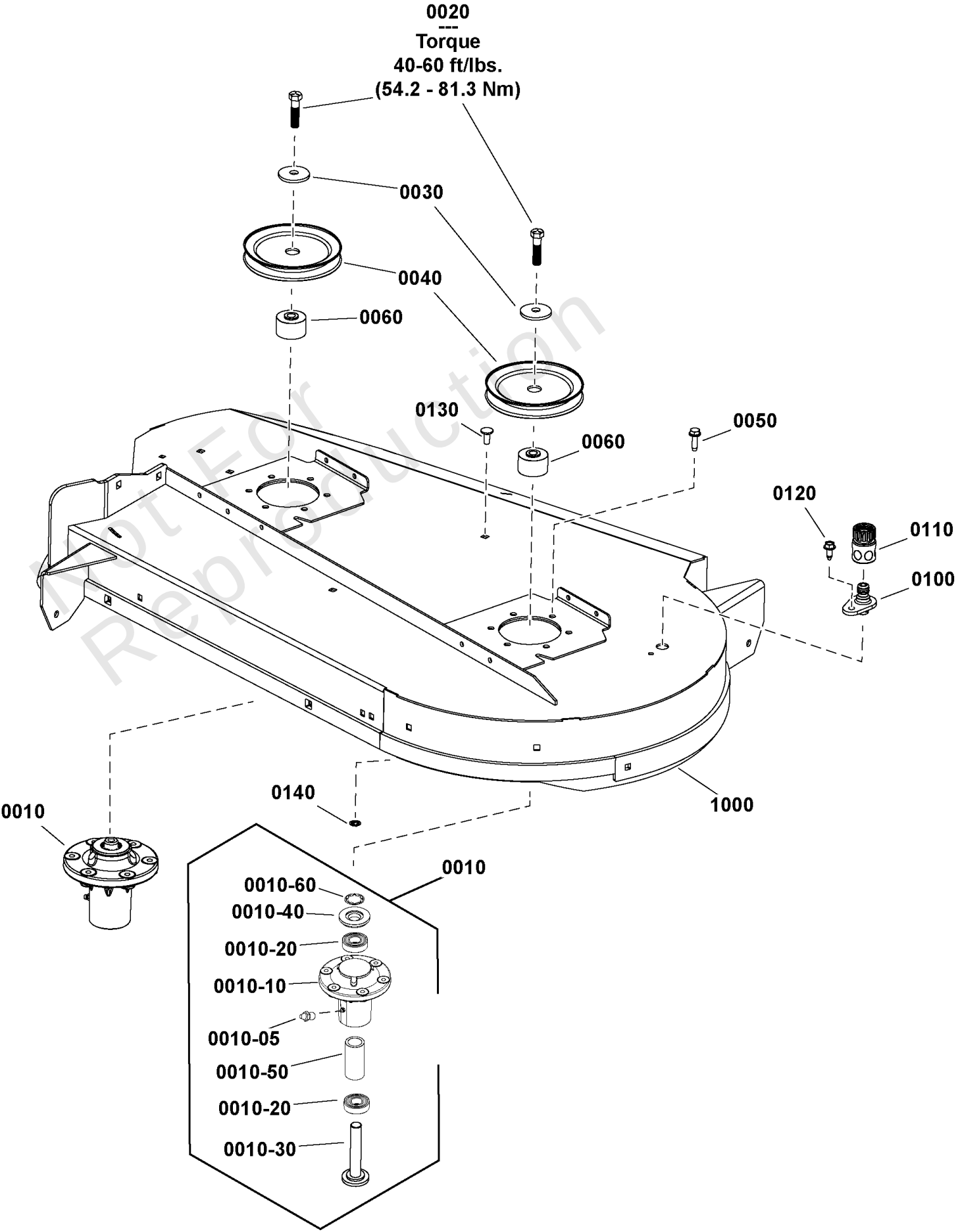
42" (107cm) Mower Deck - Height Adjustment & Roller Bar Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1960379SM	2	NUT, Hex Lock, 1/2-13
0020	1679166SM	2	SPACER, 1/2 x 7/8 x 1 3/16
0030	1730221ASM	1	HANGER, Front
0040	1731414SM	1	ROD, Latch
0050	703852	1	PIN, 5/16 X 0.375
0060	1730097SM	1	ROD, Bail
0070	2108765SM	4	BOLT-WHEEL 3/8-16X2.7
0080	1714760SM	4	GAUGE WHEEL
0090	703158	4	NUT, Hex Flange, ESNA, 3/8-16
0100	1758555BMYP	1	UPSTOP
0110	703409	2	NUT, 5/16-18, GR5
0120	703185	2	BOLT, Round Head, Short Square Neck
0130	703853	4	WASHER, 0.516IDX1OD

42" (107cm) Mower Deck - Housing, Arbors & Blades Group

Note: Unless noted otherwise, use the standard torque specifications

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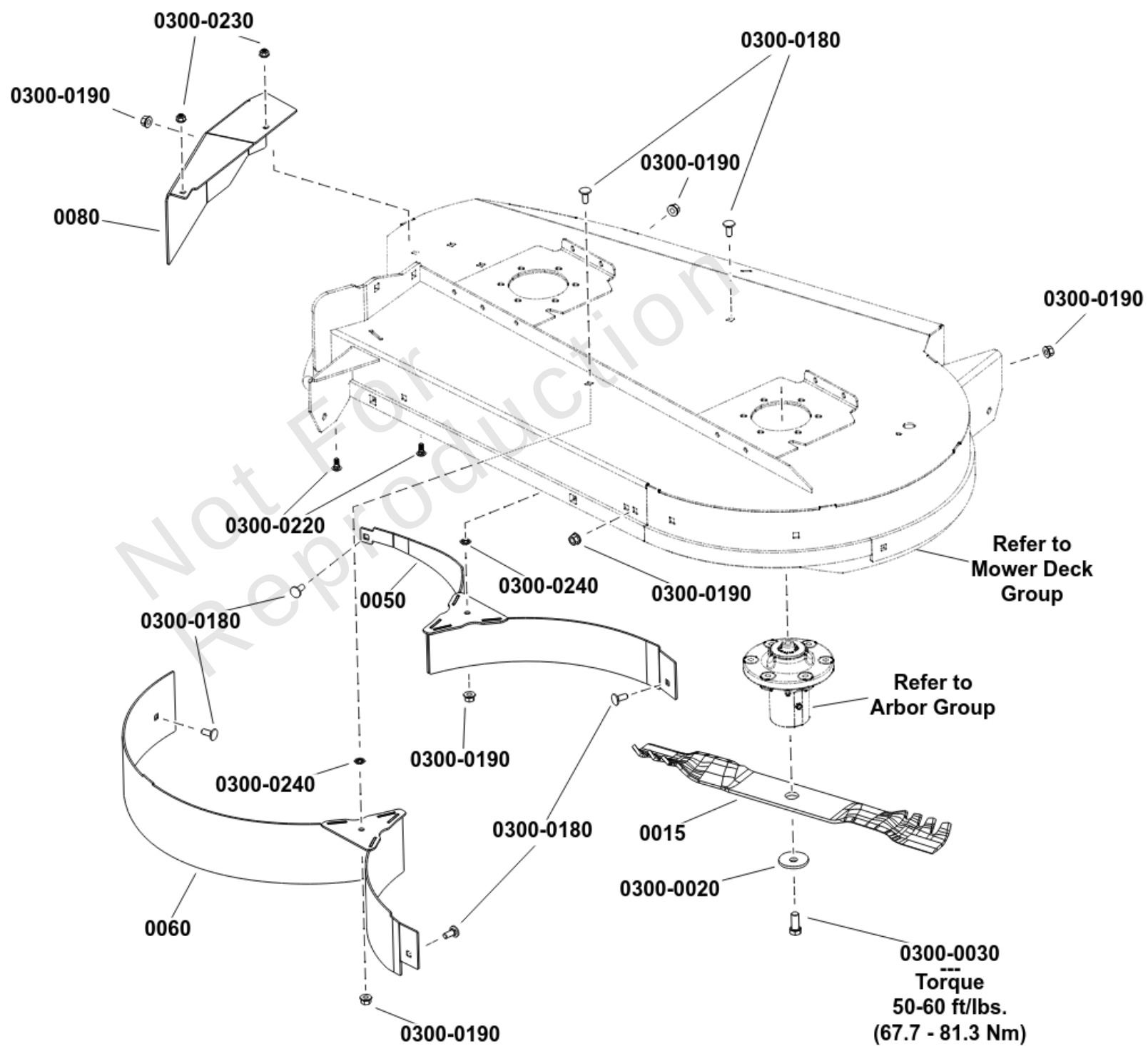
42" (107cm) Mower Deck - Housing, Arbors & Blades Group

REF NO	PART NO	QTY	DESCRIPTION
0010	84003173	3	ARBOR ASSEMBLY -(Incl. Ref. Nos. 0010-05, 0010-10, 0010-20, 0010-30, 0010-40, 0010-50 & 0010-60)
0010-05	1704314SM	1	LUBE FITTING, .250 DR -(Included with Ref. No. 0010)
0010-10	84003653	1	HOUSING ASSEMBLY -(Included with Ref. No. 0010)
0010-20	1735399YP	2	BEARING, Ball, 20mm -(Included with Ref. No. 0010)
0010-30	84003170	1	SHAFT, SPINDLE -(Included with Ref. No. 0010)
0010-40	84003166	1	COVER, ARBOR -(Included with Ref. No. 0010)
0010-50	84003167	1	SPACER, BEARING -(Included with Ref. No. 0010)
0010-60	1960766YP	1	RING, SELF LOCKING -(Included with Ref. No. 0010)
0020	703171	2	HHCS
0030	1656916SM	2	WASHER, SPRING 0.475I
0040	1737835YP	2	PULLEY, 4.50
0050	704146	12	SCREW, HEX, 5/16-18X1
0060	1736445YP	2	SPACER, Pulley
0100	1756247YP	1	ADAPTER, Washout Port
0120	703228	1	SCREW, 5/16-18 X .75
0130	703185	1	BOLT, Round Head, Short Square Neck
0140	703297	1	RETAINER, GR5, 5/16
1000	84007556	1	KIT, Mower Deck w/Decals, 42"

42" (107cm) Mower Deck - Rear Eject Configuration Kit

Note: Unless noted otherwise, use the standard torque specifications

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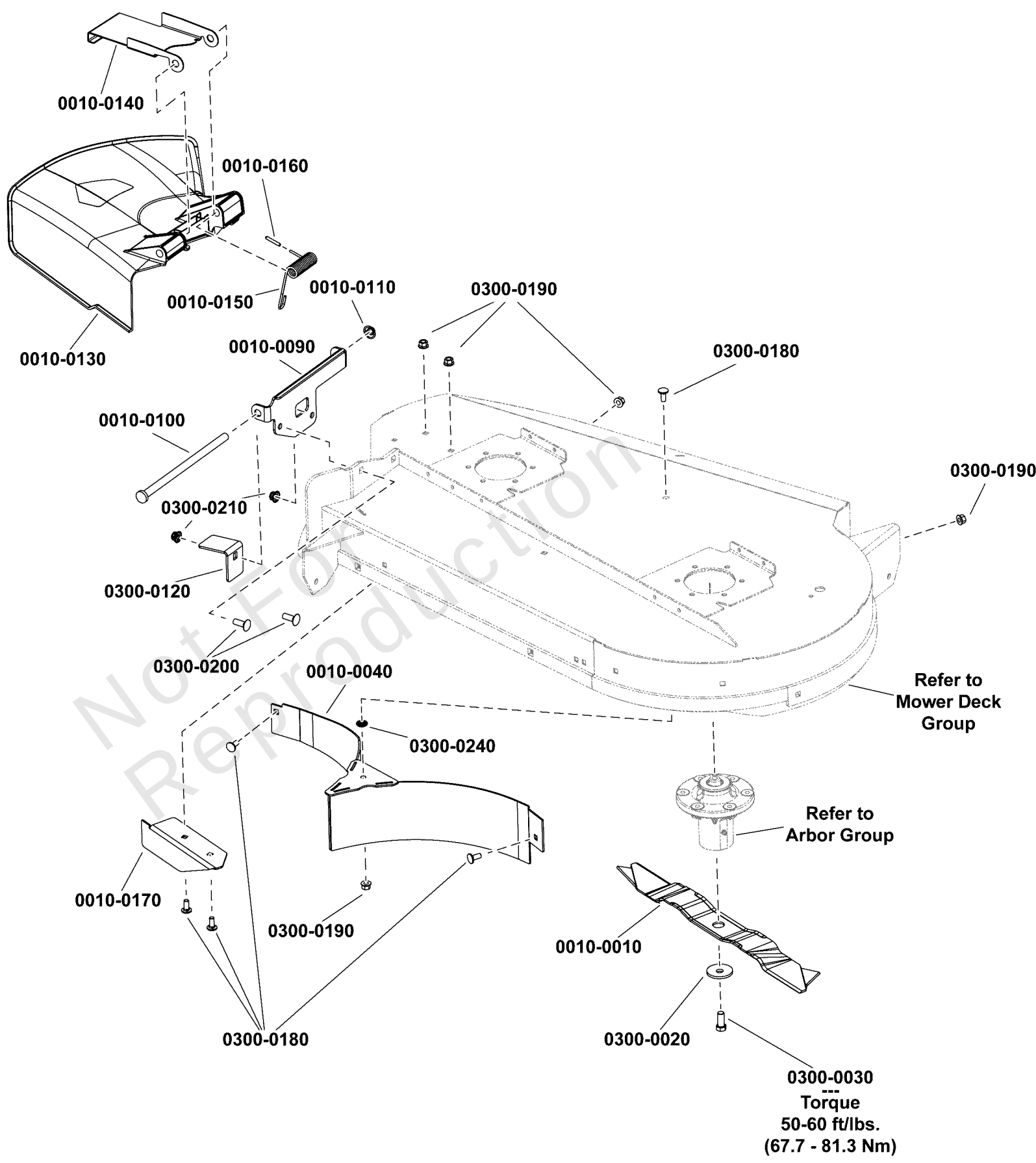
42" (107cm) Mower Deck - Rear Eject Configuration Kit

REF NO	PART NO	QTY	DESCRIPTION
0015	1760645YP	2	BLADE-MULCHING
0050	84007257	1	BAFFLE, Rear, Low 42CC
0060	84007256	1	BAFLE, Front
0080	84007260	1	PLATE, 42CC
0300-0020	1656916SM	2	WASHER, SPRING 0.475I
0300-0030	2820676SM	2	CAPSCREW-HEX HD 7/16-
0300-0180	703185	6	BOLT, Round Head, Short Square Neck
0300-0190	703115	6	NUT
0300-0220	1960252SM	2	BOLT-RD HD SH SQ NK 1
0300-0230	703463	2	NUT, GR5,1/4-20
0300-0240	703297	2	RETAINER, GR5, 5/16

42" (107cm) Mower Deck - Side Discharge Configuration Kit

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691926-00



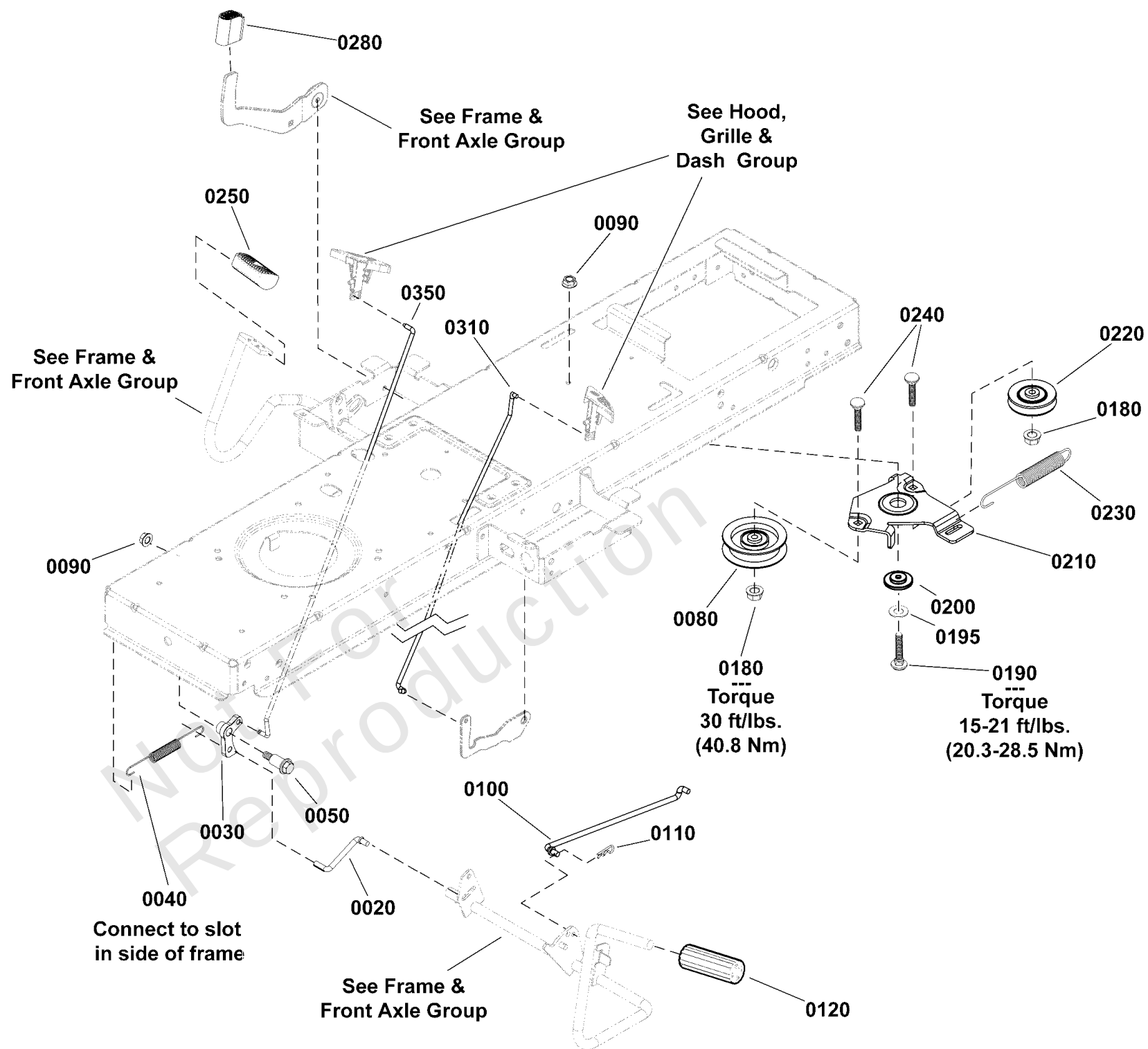
42" (107cm) Mower Deck - Side Discharge Configuration Kit

REF NO	PART NO	QTY	DESCRIPTION
0010-0010	1752100AYP	2	BLADE, 42" Mower
0010-0040	84007258	1	BAFFLE, Rear, High 42CC
0010-0090	1758982AYP	1	BRACKET, DEFLECTOR
0010-0100	7104640YP	1	ROD, Deflector
0010-0110	703179	1	PUSHNUT, CAP TYPE
0010-0130	7104733YP	1	CHUTE, SIDE DISCHARGE
0010-0140	1759986BMYP	1	SUPPORT, Deflector
0010-0150	7035813SM	1	SPRING, TORSION, SIDE
0010-0160	5023489SM	1	CAP, PROTECTOR, .120
0010-0170	1758581BMYP	1	BAFFLE, Pinchoff
0300-0020	1656916SM	2	WASHER, SPRING 0.475I
0300-0030	2820676SM	2	CAPSCREW-HEX HD 7/16-
0300-0120	1758593BMYP	1	PROP, DEFLECTOR
0300-0180	703185	5	BOLT, Round Head, Short Square Neck
0300-0190	703115	5	NUT
0300-0200	703815	2	BOLT, RD SQ 3/8-16X1
0300-0210	5025394SM	2	NUT, 3/8-16 HEX NYLOCK
0300-0240	703297	1	RETAINER, GR5, 5/16

Controls Group

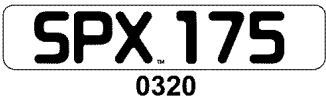
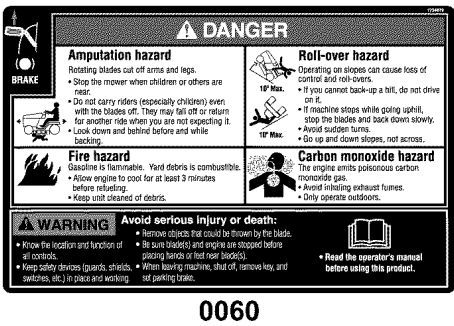
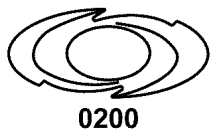
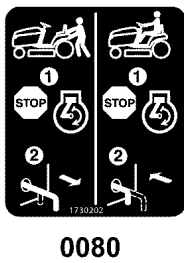
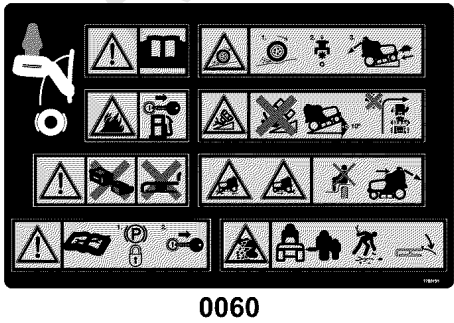
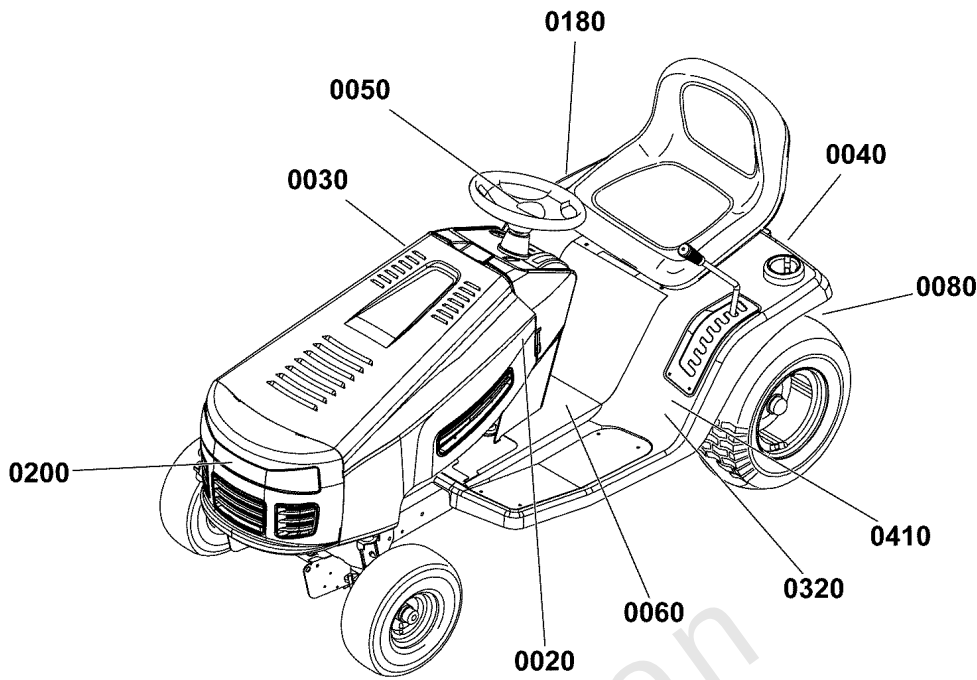
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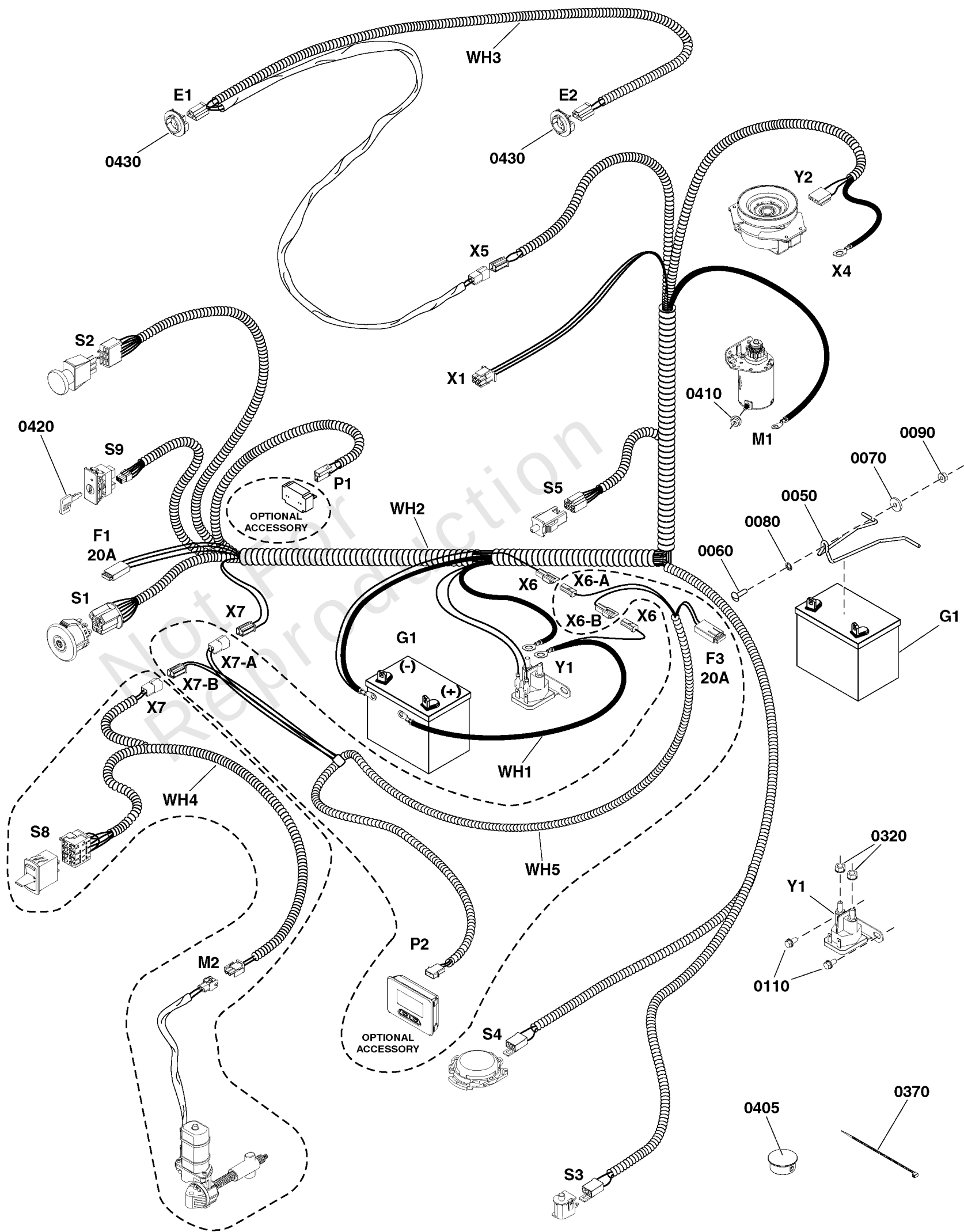
Controls Group

REF NO	PART NO	QTY	DESCRIPTION
0020	1727899SM	1	ROD, Cruise Latch, 5/16 Dia. x 2-13/16 Long
0030	1727897SM	1	LATCH, Cruise
0040	2159181SM	1	SPRING, Extension, 9/16 OD x 7-3/4
0050	1728976SM	1	BOLT, Shoulder, 5/16-18 x 1-5/8
0080	1728000SM	1	PULLEY, Idler, 3-1/8 OD, 3/8 ID
0090	703115	2	NUT
0100	1727254SM	1	ROD, Brake Return, 5/16 Dia. x 12-5/8 Long
0110	1722460SM	1	PIN, Quick, 1-3/16 Long
0120	1727261SM	1	PEDAL-BRAKE BLACK RUB
0180	1960687SM	2	NUT, Hex Flange, ESNA, 3/8-16
0190	703570	1	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
0195	1919326SM	1	WASHER, 5/16
0200	1727935SM	1	SPACER-PIVOT 0.330ID
0210	1727894ASM	1	BRACKET, Idler
0220	1728001SM	1	PULLEY, 3 OD, 3/8 ID
0230	1729620SM	1	SPRING, Extension, 1 OD x 7-1/2
0240	1931352SM	2	BOLT, Carriage, Short Neck, 3/8-16 x 1-1/2
0250	1721675SM	1	PAD, Foot Pedal, Forward
0280	1727259SM	1	PAD, Foot Pedal, Reverse
0310	1739876YP	1	ROD, Parking Brake, 1/4 Dia. x 16-3/8 Long
0350	1739877YP	1	ROD, Cruise Latch, 1/4 Dia. x 17



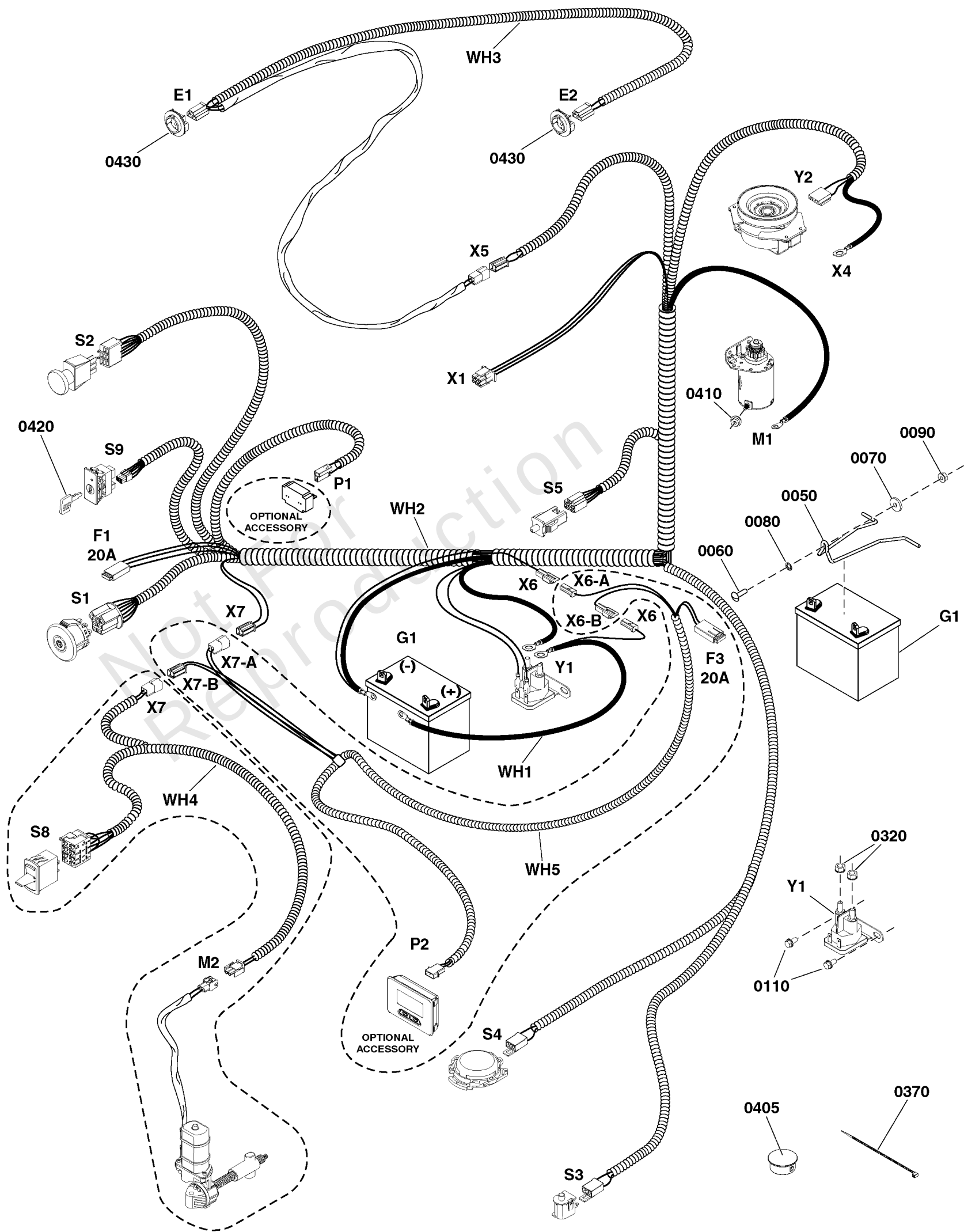
Decals Group

REF NO	PART NO	QTY	DESCRIPTION
0020	1755900YP	1	DECAL, Simplicity Letters, LH
0030	1755901YP	1	DECAL, Simplicity Letters, RH
0040	1757673YP	1	DECAL, SMI LOGO 10.47
0050	1755843YP	1	DECAL, Logo, Steering Wheel
0060	1750191YP	1	DECAL, Tunnel, Export
0080	1730202SM	1	DECAL, Transmission Tow / Release Lever
0180	771742	1	DECAL
0200	1755798YP	1	DECAL, 3D, Logo, Simplicity
0320	84007264	1	DECAL, Simplicity SLT175
0410	1754246YP	1	DECAL, Powered by Briggs



Electrical Group

REF NO	PART NO	QTY	DESCRIPTION
E1	-----	1	HEADLIGHT, Left
E2	-----	1	HEADLIGHT, Right
F1	1731957SM	1	FUSE, Wiring Harness
F3	1731957SM	1	FUSE, Wiring Harness
G1	-----	1	CE BATTERY - 7U1L -(7U1L, 12V, 195CCA)
M1	592599	1	MOTOR, Starter
M2	1761788YP	1	MOTOR, Electric -(Optional Accessory)
P1	1731185SM	1	METER-HOUR DIGITAL NO -(Optional Accessory)
P2	1758654YP	1	DISPLAY, Mini Meter -(Optional Accessory)
S1	1761507YP	1	SWITCH, Ignition
S2	1722887YP	1	SWITCH, PTO Push/Pull, Yel Knob w/Symbols, 8 Terminal
S3	1720411SM	1	SWITCH, NO, Black, Push Button W/Boot -(Reverse Switch)
S4	1714771SM	1	SWITCH, Seat, Gray Switch, Gray Retainer
S5	7022886YP	1	SWITCH, DP NO/NC SNAP -(Brake Pedal Switch)
S8	1761475YP	1	SWITCH, Height of Cut -(Optional Accessory)
S9	1761897YP	1	SWITCH, Reverse Mow Option
WH1	1759779YP	1	HARNESS, Battery, Solenoid
WH2	84003000	1	HARNESS
WH3	1761298YP	1	HARNESS, Headlight
WH4	1761347YP	1	HARNESS, Height of Cut -(Optional Accessory)
WH5	84003001	1	HARNESS, Mini Meter with Height of Cut Harness -(Optional Accessory)
X1	-----	1	CONNECTOR, Engine
X4	-----	1	CHASSIS GROUND POINT
X5	-----	1	CONNECTOR, Main Harness to Headlight Harness
X6	-----	1	CONNECTOR, Battery Solenoid Harness to Main Harness
X6-A	-----	1	CONNECTOR, Mini Meter with Height of Cut Harness to Main Harness
X6-B	-----	1	CONNECTOR, Mini Meter with Height of Cut Harness to Battery Solenoid Harness
X7	-----	1	CONNECTOR, Main Harness to Height of Cut Harness
X7-A	-----	1	CONNECTOR, Mini Meter with Height of Cut Harness to Main Harness
X7-B	-----	1	CONNECTOR, Mini Meter with Height of Cut Harness to Height of Cut Harness
Y1	1755381YP	1	SOLENOID, L-BRACKET -(Starter Solenoid)
Y2	1760986YP	1	OGURA CLUTCH -(PTO Clutch)
0050	1730007SM	1	HOLD DOWN, Battery, 1/4 Dia.
0060	1931318SM	1	BOLT, Carriage, Short Neck, 1/4-20 x 7/8 G5
0070	703229	1	WASHER, 1/4
0080	703826	1	BOLT, PUSHNUT 1/4
0090	703463	1	NUT, GR5, 1/4-20
0110	704130	2	SCREW, HEX, 1/4-20X.5
0320	2860750SM	2	NUT-HEX KEPS 5/16-24
0370	703586	3	TIE, SELF LOCKING
0405	1732007SM	1	PLUG, Hole, 7/8 Dia.
0410	703061	1	NUT, HEX KEPS, 1/4-20
0420	1726557SM	2	KEY, No Mow Module (Yellow)



Electrical Group

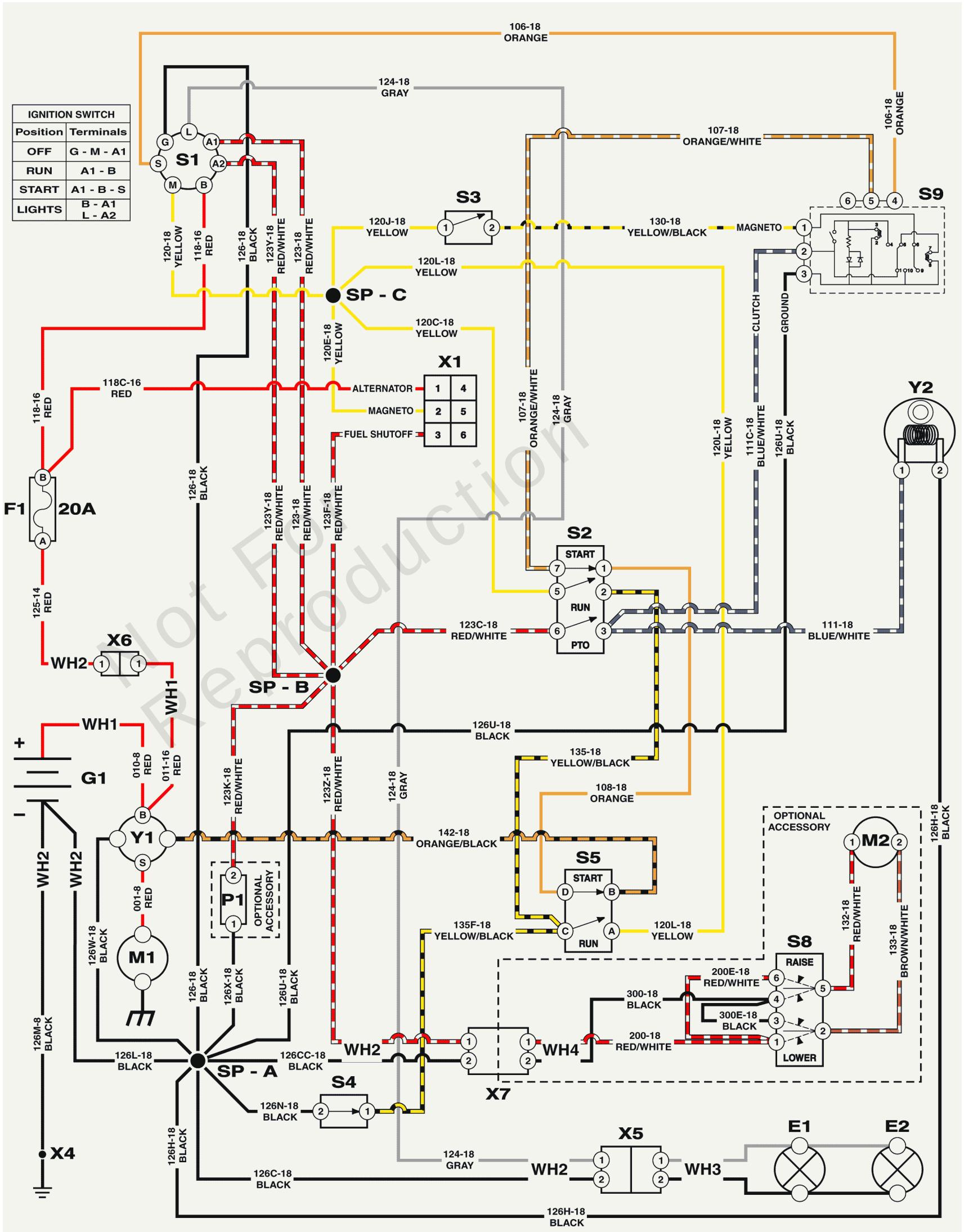
REF NO	PART NO	QTY	DESCRIPTION
0430	1760239YP	2	LED HEADLIGHT AND SOCKET ASSEMBLY

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Electrical Schematic -

Note: Unless noted otherwise, use the standard torque specifications

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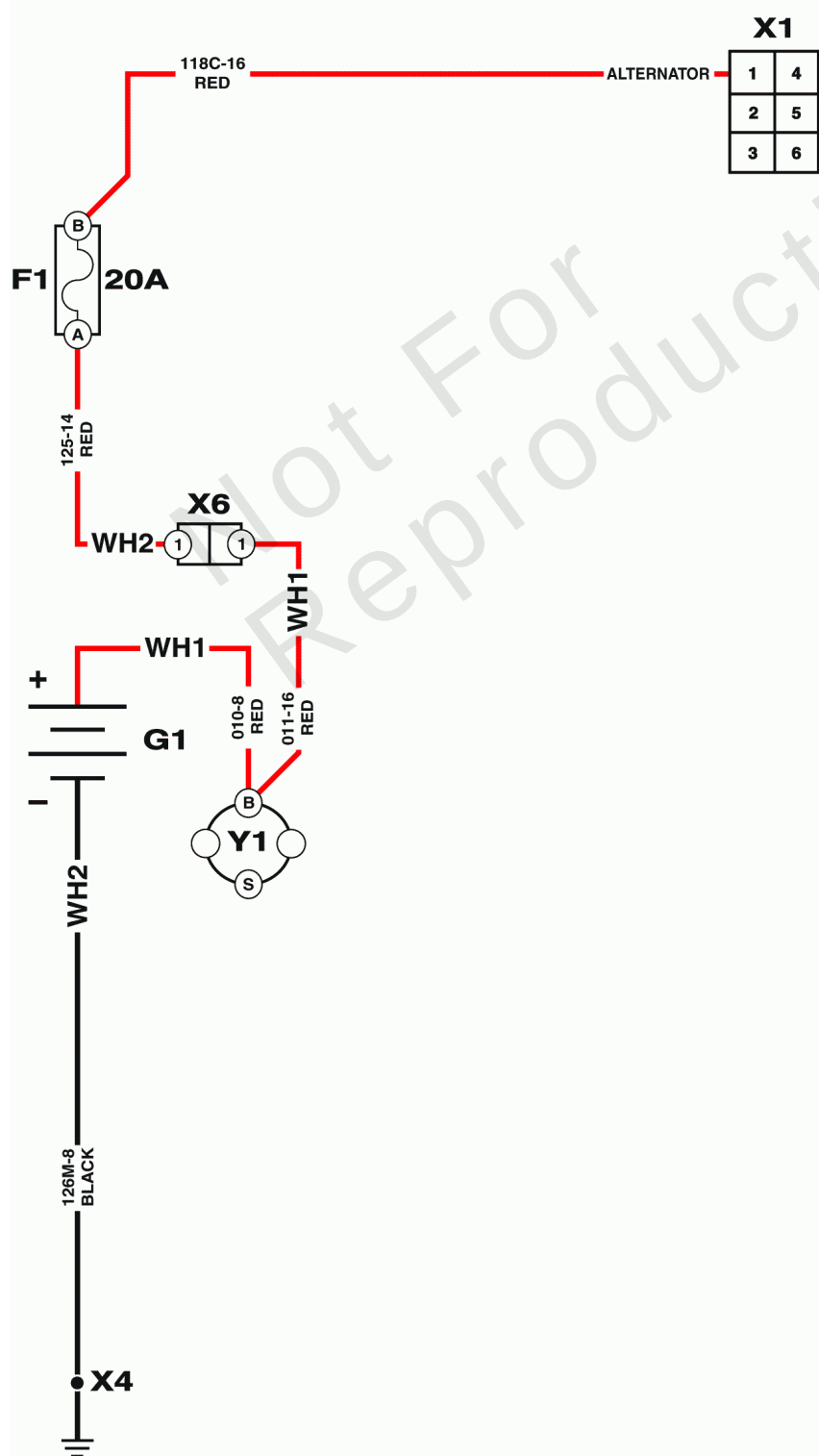
Electrical Schematic -

REF NO	PART NO	QTY	DESCRIPTION
	-----		NOTE: All electrical components represented within this electrical schematic are at rest state (no power applied).
E1	-----	1	HEADLIGHT, Left
E2	-----	1	HEADLIGHT, Right
F1	1731957SM	1	FUSE, Wiring Harness
G1	-----	1	CE BATTERY - 7U1L
M1	592599	1	MOTOR, Starter
M2	1761788YP	1	MOTOR, Electric -(Optional Accessory)
P1	1731185SM	1	METER-HOUR DIGITAL NO -(Optional Accessory)
S1	1761507YP	1	SWITCH, Ignition
S2	1722887YP	1	SWITCH, PTO Push/Pull, Yel Knob w/Symbols, 8 Terminal
S3	1720411SM	1	SWITCH, NO, Black, Push Button W/Boot -(Reverse Switch)
S4	1714771SM	1	SWITCH, Seat, Gray Switch, Gray Retainer
S5	7022886YP	1	SWITCH, DP NO/NC SNAP -(Brake Pedal Switch)
S8	1761475YP	1	SWITCH, Height of Cut -(Optional Accessory)
S9	1761897YP	1	SWITCH, Reverse Mow Option
SP-A	-----	1	SPLICE - A -(Splices are internal to the wire harness.)
SP-B	-----	1	SPLICE - B -(Splices are internal to the wire harness.)
SP-C	-----	1	SPLICE - C -(Splices are internal to the wire harness.)
WH1	1759779YP	1	HARNESS, Battery, Solenoid
WH2	1761300YP	1	HARNESS, Main
WH3	1761298YP	1	HARNESS, Headlight
WH4	1761347YP	1	HARNESS, Height of Cut -(Optional Accessory)
X1	-----	1	CONNECTOR, Engine
X4	-----	1	CHASSIS GROUND POINT
X5	-----	1	CONNECTOR, Main Harness to Headlight Harness
X6	-----	1	CONNECTOR, Battery Solenoid Harness to Main Harness
X7	-----	1	CONNECTOR, Main Harness to Height of Cut Harness
Y1	1755381YP	1	SOLENOID, L-BRACKET -(Starter Solenoid)
Y2	1760986YP	1	OGURA CLUTCH -(PTO Clutch)

Electrical Schematic - Charging Circuit

Note: Unless noted otherwise, use the standard torque specifications

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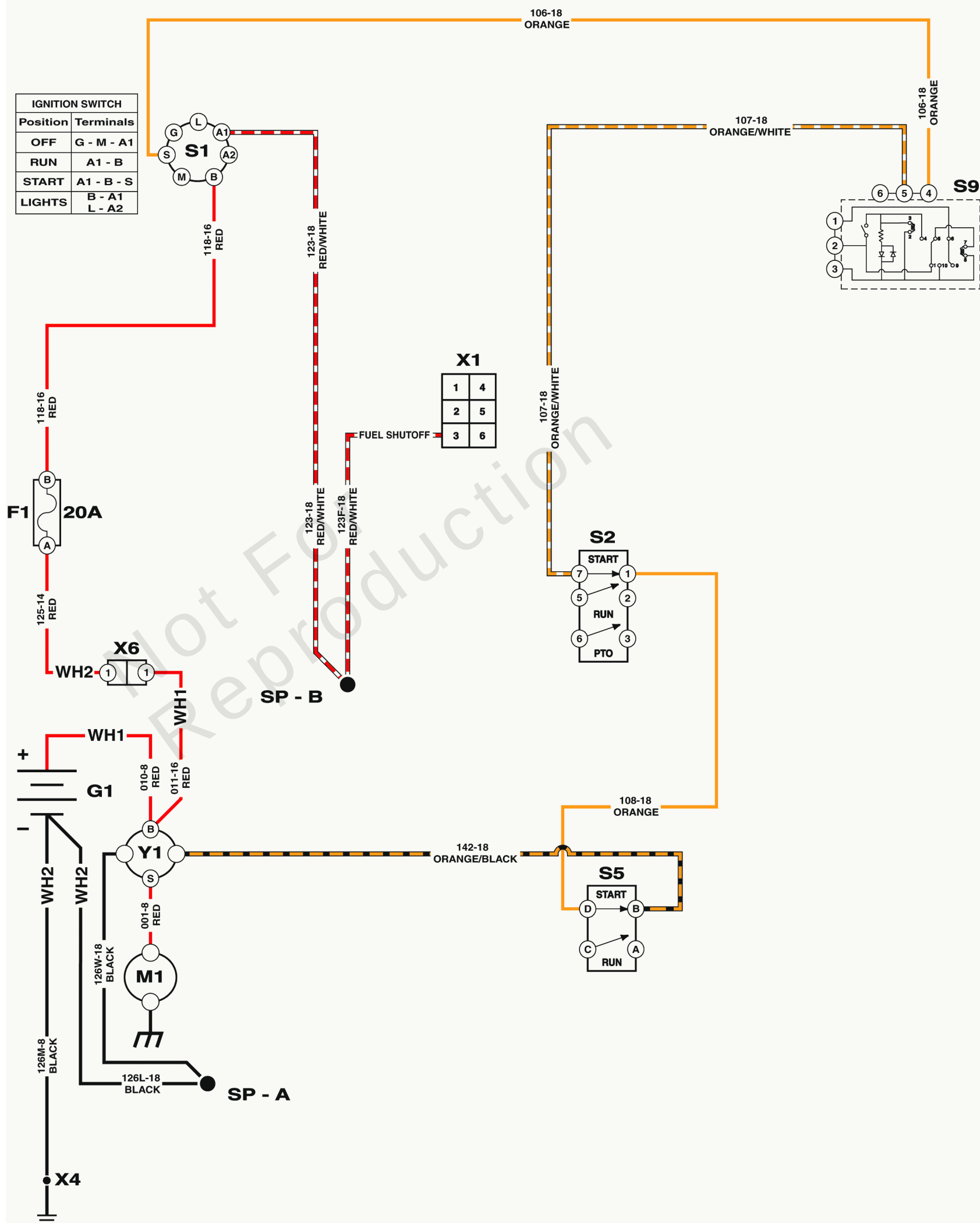
Electrical Schematic - Charging Circuit

REF NO	PART NO	QTY	DESCRIPTION
	-----		NOTE: All electrical components represented within this electrical schematic are at rest state (no power applied).
F1	1731957SM	1	FUSE, Wiring Harness
G1	-----	1	CE BATTERY - 7U1L -(7U1L, 12V, 195CCA)
WH1	1759779YP	1	HARNESS, Battery, Solenoid
WH2	1761300YP	1	HARNESS, Main
X1	-----	1	CONNECTOR, Engine
X4	-----	1	CHASSIS GROUND POINT
X6	-----	1	CONNECTOR, Battery Solenoid Harness to Main Harness
Y1	1755381YP	1	SOLENOID, L-BRACKET -(Starter Solenoid)

Electrical Schematic - Cranking Circuit

Note: Unless noted otherwise, use the standard torque specifications

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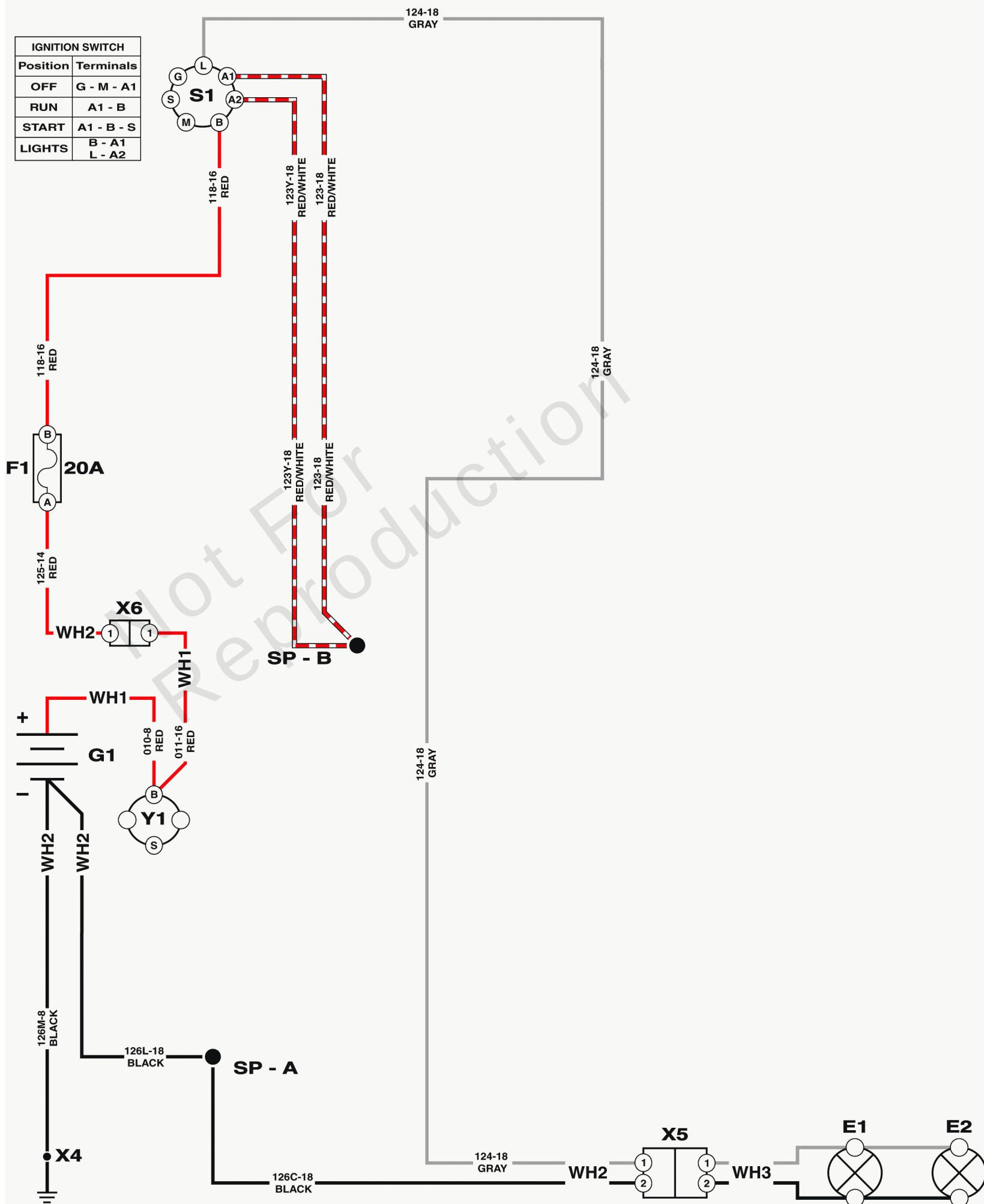
Electrical Schematic - Cranking Circuit

REF NO	PART NO	QTY	DESCRIPTION
	-----		NOTE: All electrical components represented within this electrical schematic are at rest state (no power applied).
F1	1731957SM	1	FUSE, Wiring Harness
G1	-----	1	CE BATTERY - 7U1L -(7U1L, 12V, 195CCA)
M1	592599	1	MOTOR, Starter
S1	1761507YP	1	SWITCH, Ignition
S2	1722887YP	1	SWITCH, PTO Push/Pull, Yel Knob w/Symbols, 8 Terminal
S5	7022886YP	1	SWITCH, DP NO/NC SNAP -(Brake Pedal Switch)
S9	1761897YP	1	SWITCH, Reverse Mow Option
SP-A	-----	1	SPLICE - A -(Splices are internal to the wire harness.)
SP-B	-----	1	SPLICE - B -(Splices are internal to the wire harness.)
WH1	1759779YP	1	HARNESS, Battery, Solenoid
WH2	1761300YP	1	HARNESS, Main
X1	-----	1	CONNECTOR, Engine
X4	-----	1	CHASSIS GROUND POINT
X6	-----	1	CONNECTOR, Battery Solenoid Harness to Main Harness
Y1	1755381YP	1	SOLENOID, L-BRACKET -(Starter Solenoid)

Electrical Schematic - Headlight Circuit

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691926-00



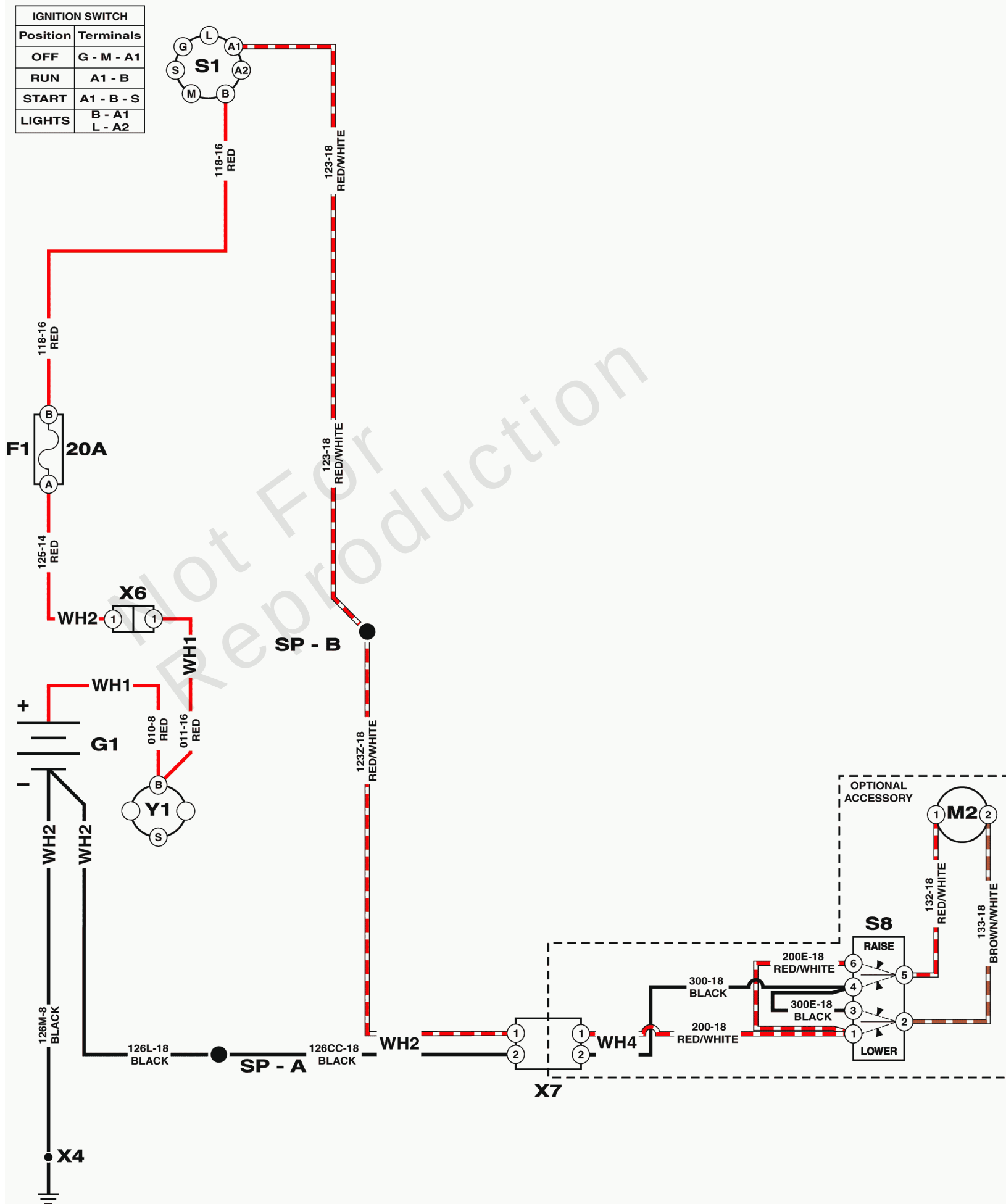
Electrical Schematic - Headlight Circuit

REF NO	PART NO	QTY	DESCRIPTION
	-----		NOTE: All electrical components represented within this electrical schematic are at rest state (no power applied).
E1	-----	1	HEADLIGHT, Left
E2	-----	1	HEADLIGHT, Right
F1	1731957SM	1	FUSE, Wiring Harness
G1	-----	1	CE BATTERY - 7U1L -(7U1L, 12V, 195CCA)
S1	1761507YP	1	SWITCH, Ignition
SP-A	-----	1	SPLICE - A -(Splices are internal to the wire harness.)
SP-B	-----	1	SPLICE - B -(Splices are internal to the wire harness.)
WH1	1759779YP	1	HARNESS, Battery, Solenoid
WH2	1761300YP	1	HARNESS, Main
WH3	1761298YP	1	HARNESS, Headlight
X4	-----	1	CHASSIS GROUND POINT
X5	-----	1	CONNECTOR, Main Harness to Headlight Harness
X6	-----	1	CONNECTOR, Battery Solenoid Harness to Main Harness
Y1	1755381YP	1	SOLENOID, L-BRACKET -(Starter Solenoid)

Electrical Schematic - Height of Cut

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691926-00



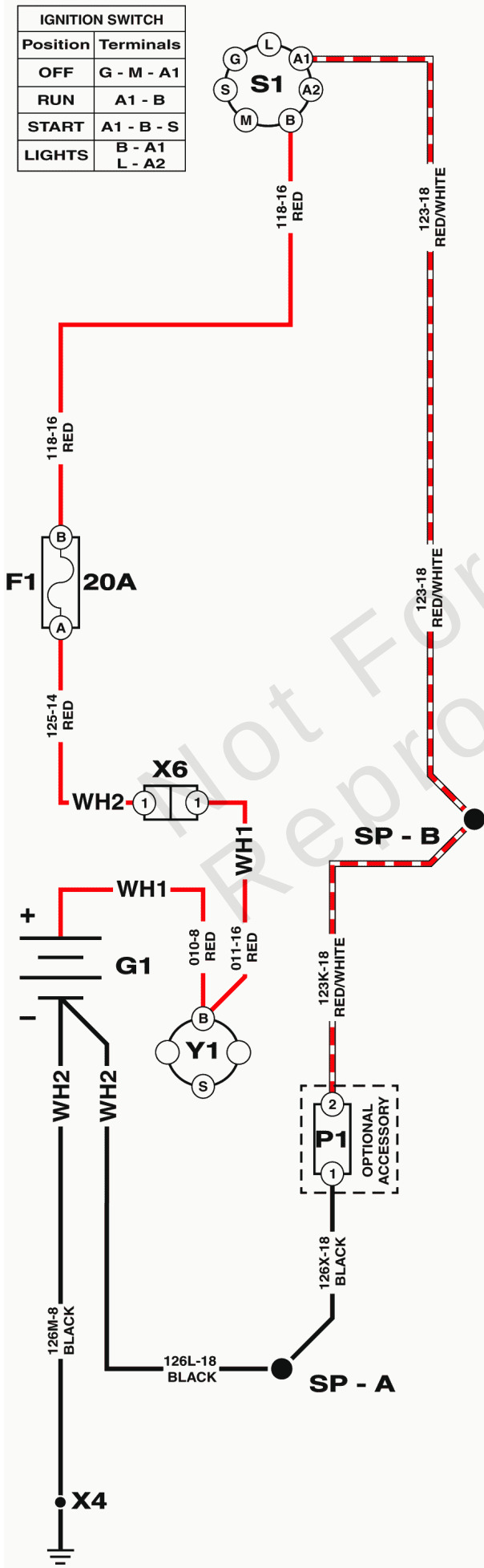
Electrical Schematic - Height of Cut

REF NO	PART NO	QTY	DESCRIPTION
	-----		NOTE: All electrical components represented within this electrical schematic are at rest state (no power applied).
F1	1731957SM	1	FUSE, Wiring Harness
G1	-----	1	CE BATTERY - 7U1L -(7U1L, 12V, 195CCA)
M2	1761788YP	1	MOTOR, Electric -(Optional Accessory)
S1	1761507YP	1	SWITCH, Ignition
S8	1761475YP	1	SWITCH, Height of Cut -(Optional Accessory)
SP-A	-----	1	SPLICE - A -(Splices are internal to the wire harness.)
SP-B	-----	1	SPLICE - B -(Splices are internal to the wire harness.)
WH1	1759779YP	1	HARNESS, Battery, Solenoid
WH2	1761300YP	1	HARNESS, Main
WH4	1761347YP	1	HARNESS, Height of Cut -(Optional Accessory)
X4	-----	1	CHASSIS GROUND POINT
X6	-----	1	CONNECTOR, Battery Solenoid Harness to Main Harness
X7	-----	1	CONNECTOR, Main Harness to Height of Cut Harness
Y1	1755381YP	1	SOLENOID, L-BRACKET -(Starter Solenoid)

Electrical Schematic - Hour Meter

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691926-00



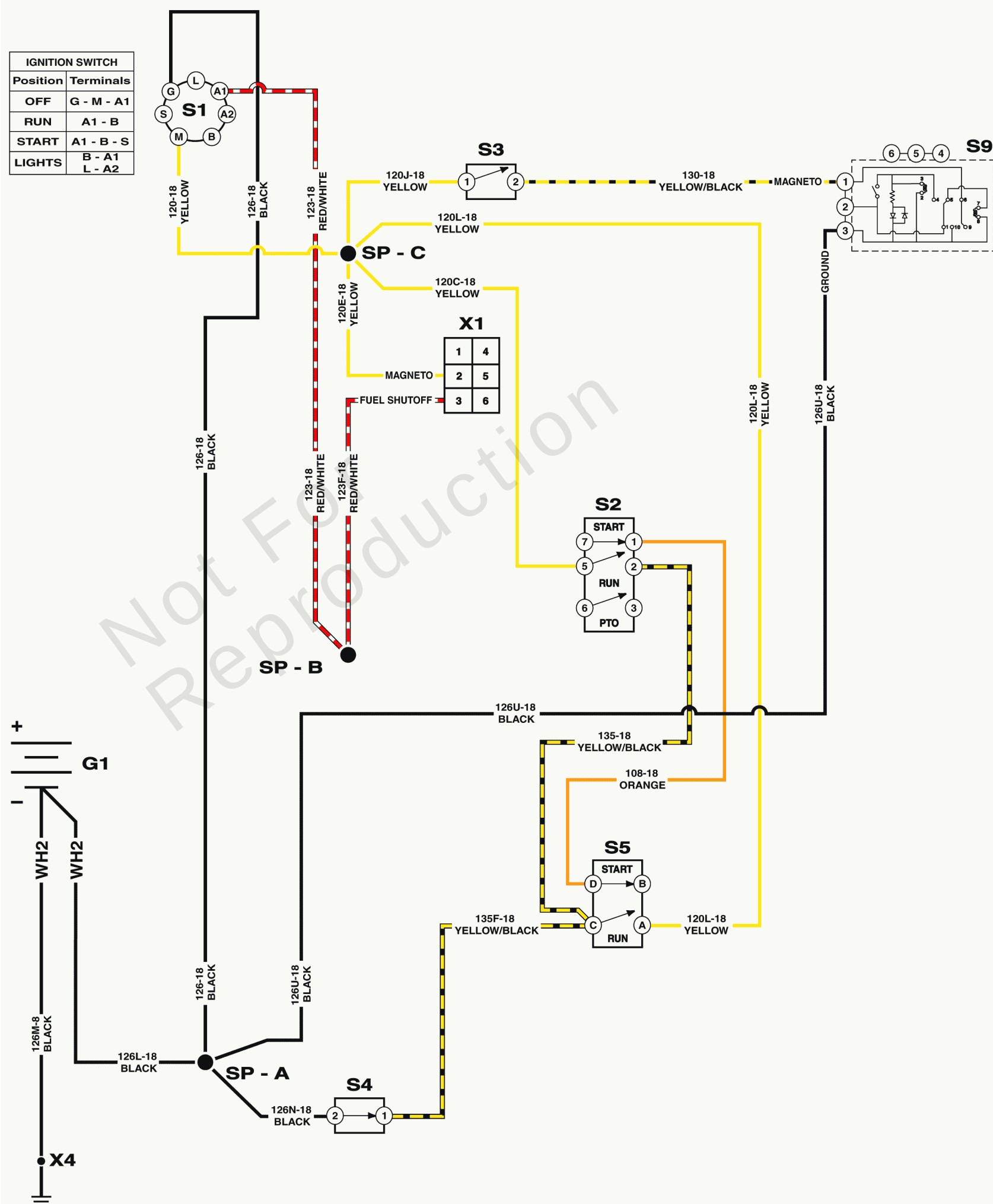
Electrical Schematic - Hour Meter

REF NO	PART NO	QTY	DESCRIPTION
	-----		NOTE: All electrical components represented within this electrical schematic are at rest state (no power applied).
F1	1731957SM	1	FUSE, Wiring Harness
G1	-----	1	CE BATTERY - 7U1L -(7U1L, 12V, 195CCA)
P1	1731185SM	1	METER-HOUR DIGITAL NO -(Optional Accessory)
S1	1761507YP	1	SWITCH, Ignition
SP-A	-----	1	SPLICE - A -(Splices are internal to the wire harness.)
SP-B	-----	1	SPLICE - B -(Splices are internal to the wire harness.)
WH1	1759779YP	1	HARNESS, Battery, Solenoid
WH2	1761300YP	1	HARNESS, Main
X4	-----	1	CHASSIS GROUND POINT
X6	-----	1	CONNECTOR, Battery Solenoid Harness to Main Harness
Y1	1755381YP	1	SOLENOID, L-BRACKET -(Starter Solenoid)

Electrical Schematic - Ignition Shutdown

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691926-00



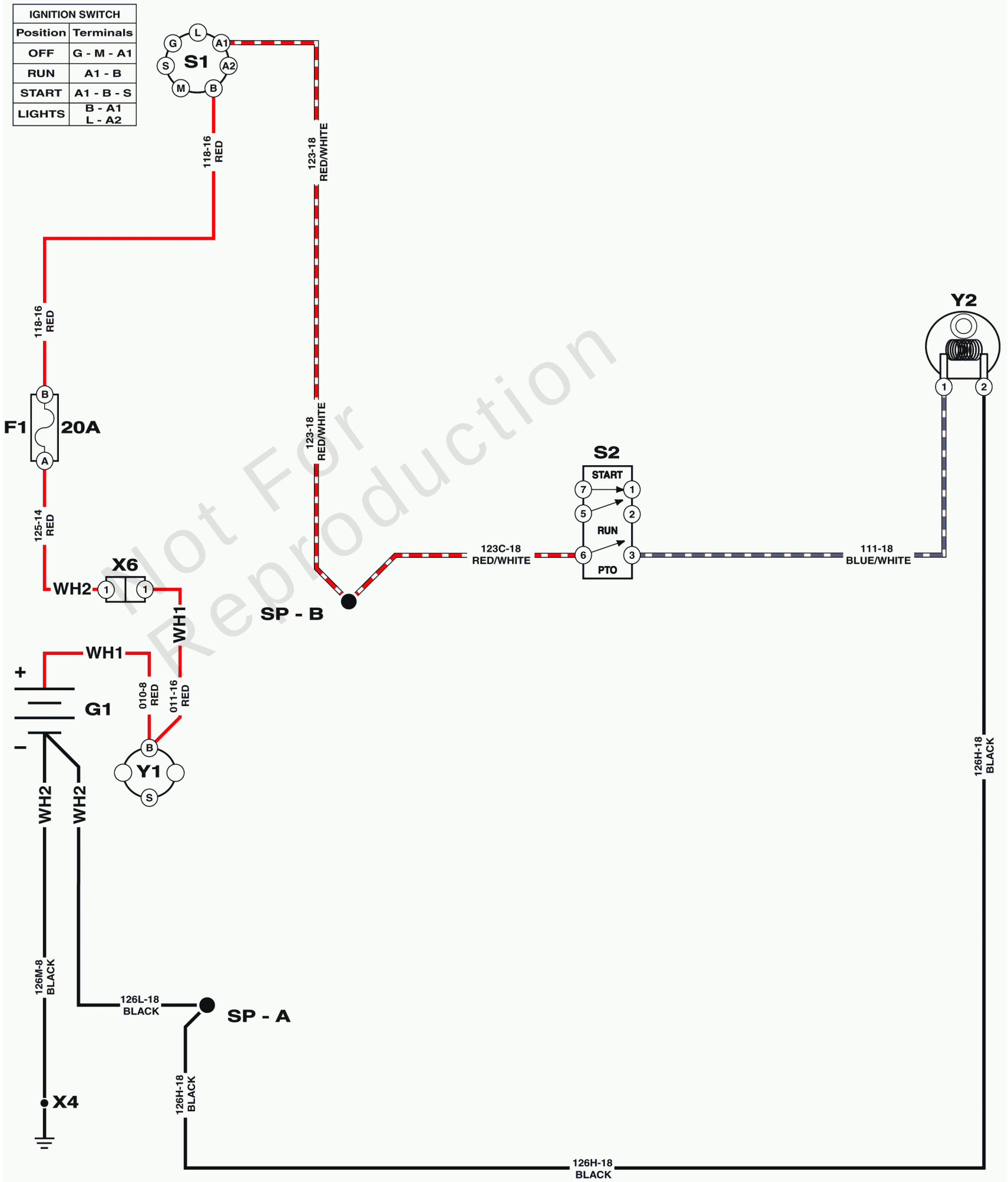
Electrical Schematic - Ignition Shutdown

REF NO	PART NO	QTY	DESCRIPTION
	-----		NOTE: All electrical components represented within this electrical schematic are at rest state (no power applied).
G1	-----	1	CE BATTERY - 7U1L -(7U1L, 12V, 195CCA)
S1	1761507YP	1	SWITCH, Ignition
S2	1722887YP	1	SWITCH, PTO Push/Pull, Yel Knob w/Symbols, 8 Terminal
S3	1720411SM	1	SWITCH, NO, Black, Push Button W/Boot -(Reverse Switch)
S4	1714771SM	1	SWITCH, Seat, Gray Switch, Gray Retainer
S5	7022886YP	1	SWITCH, DP NO/NC SNAP -(Brake Pedal Switch)
S9	1761897YP	1	SWITCH, Reverse Mow Option
SP-A	-----	1	SPLICE - A -(Splices are internal to the wire harness.)
SP-B	-----	1	SPLICE - B -(Splices are internal to the wire harness.)
SP-C	-----	1	SPLICE - C -(Splices are internal to the wire harness.)
WH2	1761300YP	1	HARNESS, Main
X1	-----	1	CONNECTOR, Engine
X4	-----	1	CHASSIS GROUND POINT

Electrical Schematic - PTO Clutch

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691926-00



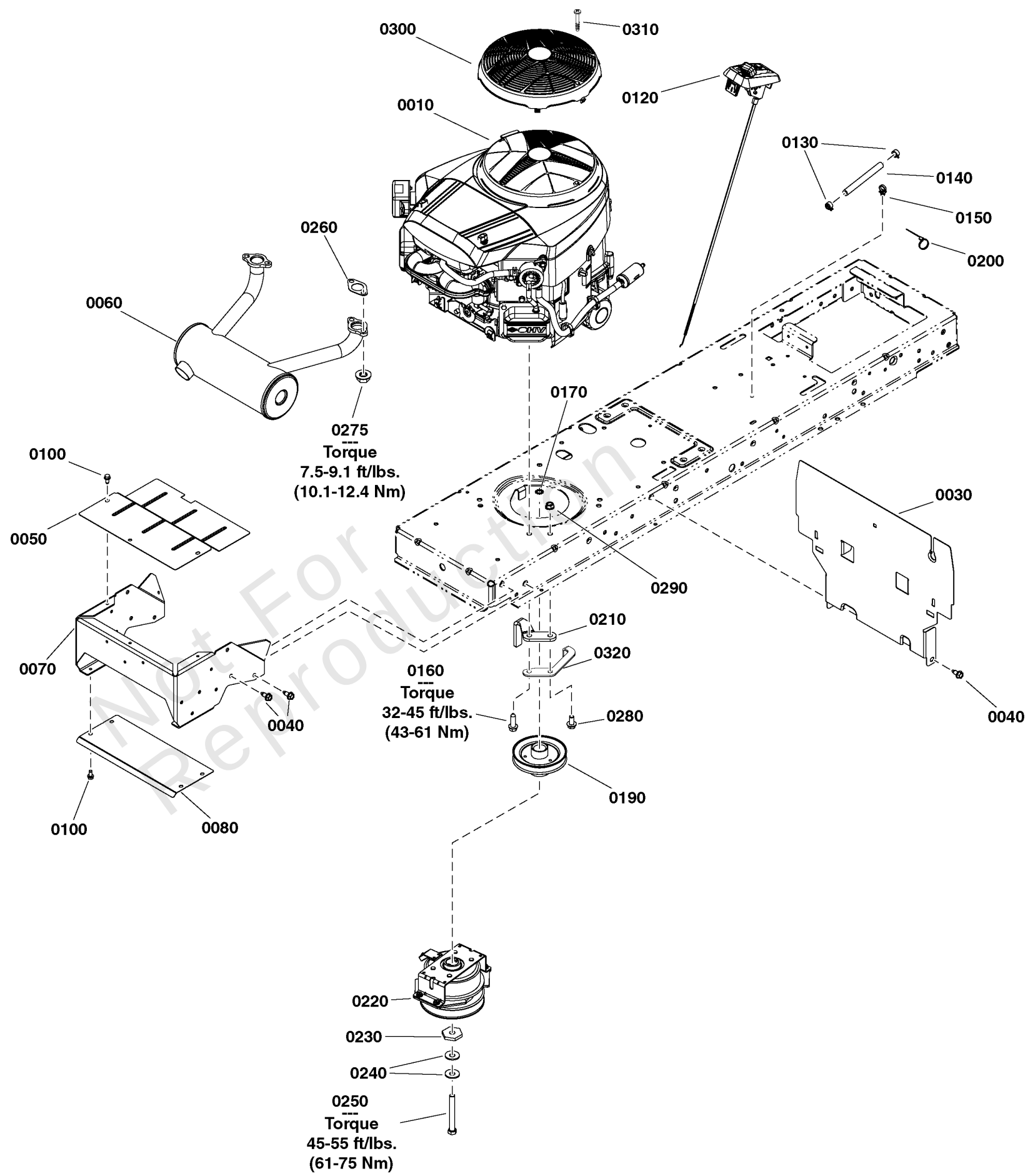
Electrical Schematic - PTO Clutch

REF NO	PART NO	QTY	DESCRIPTION
	-----		NOTE: All electrical components represented within this electrical schematic are at rest state (no power applied).
F1	1731957SM	1	FUSE, Wiring Harness
G1	-----	1	CE BATTERY - 7U1L -(7U1L, 12V, 195CCA)
S1	1761507YP	1	SWITCH, Ignition
S2	1722887YP	1	SWITCH, PTO Push/Pull, Yel Knob w/Symbols, 8 Terminal
SP-A	-----	1	SPLICE - A -(Splices are internal to the wire harness.)
SP-B	-----	1	SPLICE - B -(Splices are internal to the wire harness.)
WH1	1759779YP	1	HARNESS, Battery, Solenoid
WH2	1761300YP	1	HARNESS, Main
X4	-----	1	CHASSIS GROUND POINT
X6	-----	1	CONNECTOR, Battery Solenoid Harness to Main Harness
Y1	1755381YP	1	SOLENOID, L-BRACKET -(Starter Solenoid)
Y2	1760986YP	1	OGURA CLUTCH -(PTO Clutch)

Engine Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691926-00

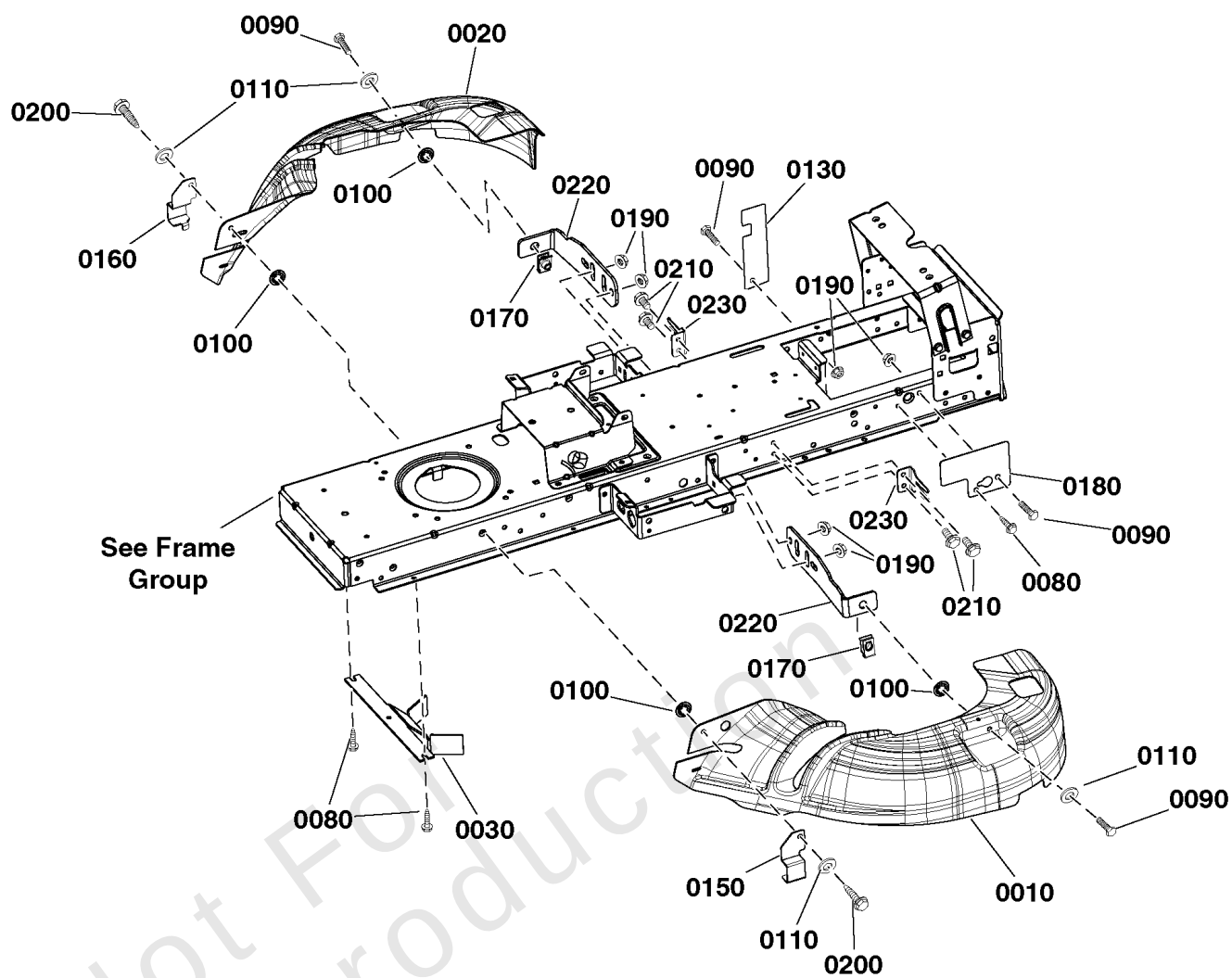


Engine Group

REF NO	PART NO	QTY	DESCRIPTION
0010	40N877-0068-B5	1	* ENGINE, 23 Gross HP, Briggs & Stratton Twin, Pro Series, Mod. 40N877-0068-B5 -(Engine Model: 40N877-0068-B5)
0030	1738380AYP	1	HEAT SHIELD, Engine
0040	703228	6	SCREW, 5/16-18 X .75
0050	1761064CJYP	1	HEAT SHIELD
0060	1761127YP	1	MUFFLER, Twin
0070	1761211CJYP	1	Support, Muffler
0080	1761063CJYP	1	HEAT SHIELD, Bottom
0100	704130	7	SCREW, HEX, 1/4-20X.5
0120	1759240YP	1	THROTTLE
0130	791850	2	CLAMP, Hose
0140	845503	1	LINE-FUEL
0150	1730268SM	2	CLIP, Hose, 1/2 Dia., Push In
0160	704010	1	SCREW, HEX, 3/8-16
0170	703864	1	WASHER, EXT, 3/8
0190	1732576SM	1	PULLEY & HUB ASSEMBLY, Engine
0200	703586	1	TIE, SELF LOCKING
0210	1760323CJYP	1	CLUTCH, Anchor
0220	1760986YP	1	OGURA CLUTCH -(Position clutch as illustrated)
0230	1708264SM	1	WASHER, HEX, 0.453ID
0240	1960769YP	2	WASHER, Belleville
0250	771023	1	CAPSCREW, Hex Head, Loctite, 7/16-20 x 3 1/2
0260	690970	2	GASKET, Exhaust
0275	690941	4	NUT
0280	704038	1	SCREW
0290	703333	1	NUT, 3/8-16
0300	797420YP	1	GUARD, Debris Screen
0310	95957YP	1	SCREW, #8-18 X 7/8", Pan Head Hi/Lo Thread Rolling (Not Shown)
0320	84004562	1	GUIDE, Belt

Footnotes:

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



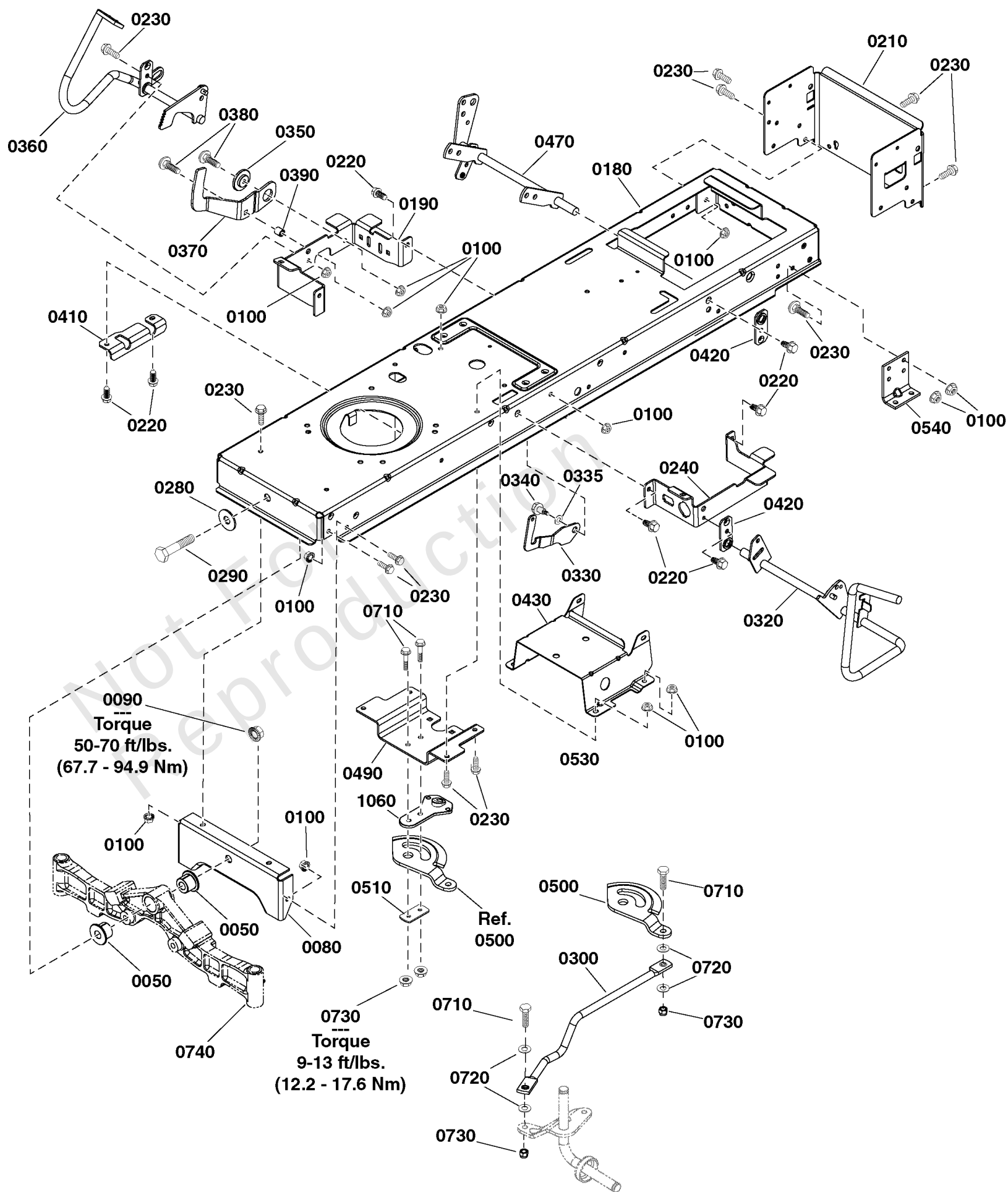
EU Guard Group

REF NO	PART NO	QTY	DESCRIPTION
0010	84004032	1	GUARD, LH
0020	84007304	1	GUARD, RH
0030	84002238	1	GUARD, Clutch, Front
0080	703228	3	SCREW, 5/16-18 X .75
0090	703408	3	CAPSCREW, 5/16-18
0100	703297	4	RETAINER, GR5, 5/16
0110	703350	4	WASHER
0130	1736025BMYP	1	GUARD, Pulley, Rear
0150	1759985BMYP	1	SUPPORT, Guarding, L.H.
0160	1759989BMYP	1	SUPPORT, Guarding, R.H.
0170	1935255SM	2	NUT, SPEED, 5/16-18 L
0180	1760016CJYP	1	GUARD, Rear
0190	703409	7	NUT, 5/16-18, GR5
0200	704146	2	SCREW, HEX, 5/16-18X1
0210	703985	4	SCREW, 5/16-18X.5
0220	1759729CJYP	2	SUPPORT
0230	84002241	2	SUPPORT, Frame, Guarding
0240	703185	4	BOLT, Round Head, Short Square Neck
0250	84004045	1	GUARD

Frame & Front Axle Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691926-00



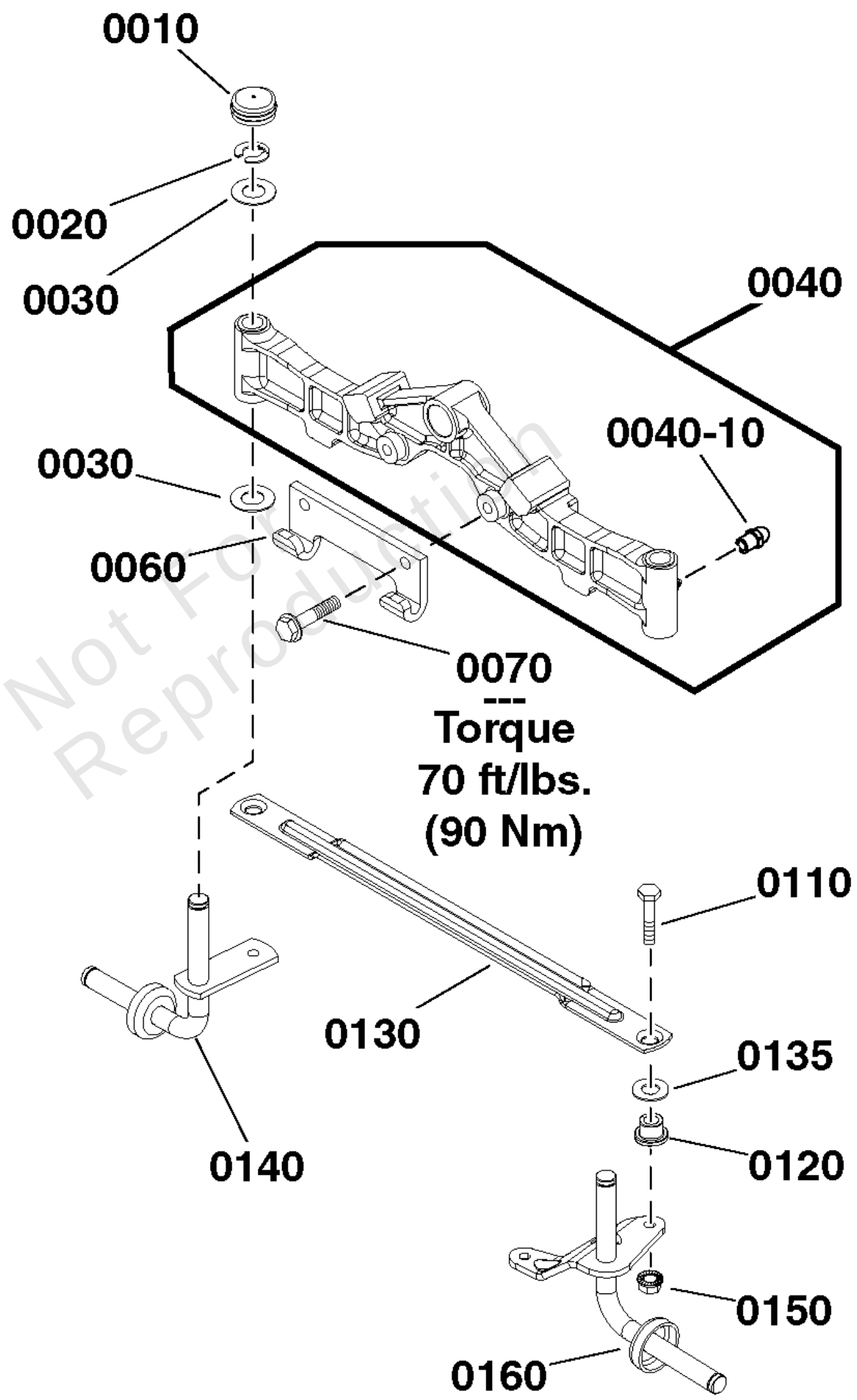
Frame & Front Axle Group

REF NO	PART NO	QTY	DESCRIPTION
0050	1730186SM	2	BUSHING, Axle Pivot
0080	1727902SM	1	PLATE, Axle Support
0090	2860646SM	1	NUT, Hex Flange, 5/8-11
0100	703409	26	NUT, 5/16-18, GR5
0180	-----	1	FRAME
0190	1759842BMYP	1	SUPPORT, Front Footrest, RH
0210	1758690YP	1	SUPPORT, Rear Frame
0220	703949	9	SCREW, 5/16-18.625
0230	703354	23	SCREW, 5/16-18
0240	1759841BMYP	1	SUPPORT, Front Footrest, LH
0280	1960035SM	1	WASHER-0.625(0.64IDX1
0290	2860744SM	1	CAPSCREW, Hex Head, 5/8-11 x 3 1/4
0300	1738051YP	1	LINK, Drag (with Bearing), 5/16
0320	1736404AYP	1	PEDAL ASSY, BRAKE
0330	1735595YP	1	LATCH, Brake Lock
0335	7014296YP	1	WASHER, Shim
0340	703851	1	BOLT, 5/16-18X1.15
0350	1727935SM	1	SPACER-PIVOT 0.330ID
0360	1736714AYP	1	FORWARD PEDAL ASSEMBLY
0370	1727246SM	1	PEDAL, Reverse
0380	703446	2	BOLT, 5/16-18X1.25 G5
0390	1728024SM	1	SPACER, Foot Pedal
0410	885591YP	1	BRACKET, PEDAL PIVOT
0420	1727911ASM	2	PLATE, Bearing
0430	1727282ASM	1	SUPPORT, Battery 12 GA
0470	1737957YP	1	LIFT SHAFT ASSEMBLY
0490	1761009YP	1	BRACKET, Sector Support
0500	1751110YP	1	GEAR, Steering
0510	1761011CJYP	1	PLATE, Sector Gear
0530	703185	2	BOLT, Round Head, Short Square Neck
0540	1727903ASM	2	SUPPORT, Transmission
0710	703570	4	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
0720	1919326SM	4	WASHER, 5/16
0730	704067	6	NUT, HEX FLNG,5/16-18 -(Torque to 12-17 ft/lbs)
0740	-----	1	Refer to: Front Axle Group
1060	1761010YP	1	SUPPORT, Steering

Front Axle Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691926-00



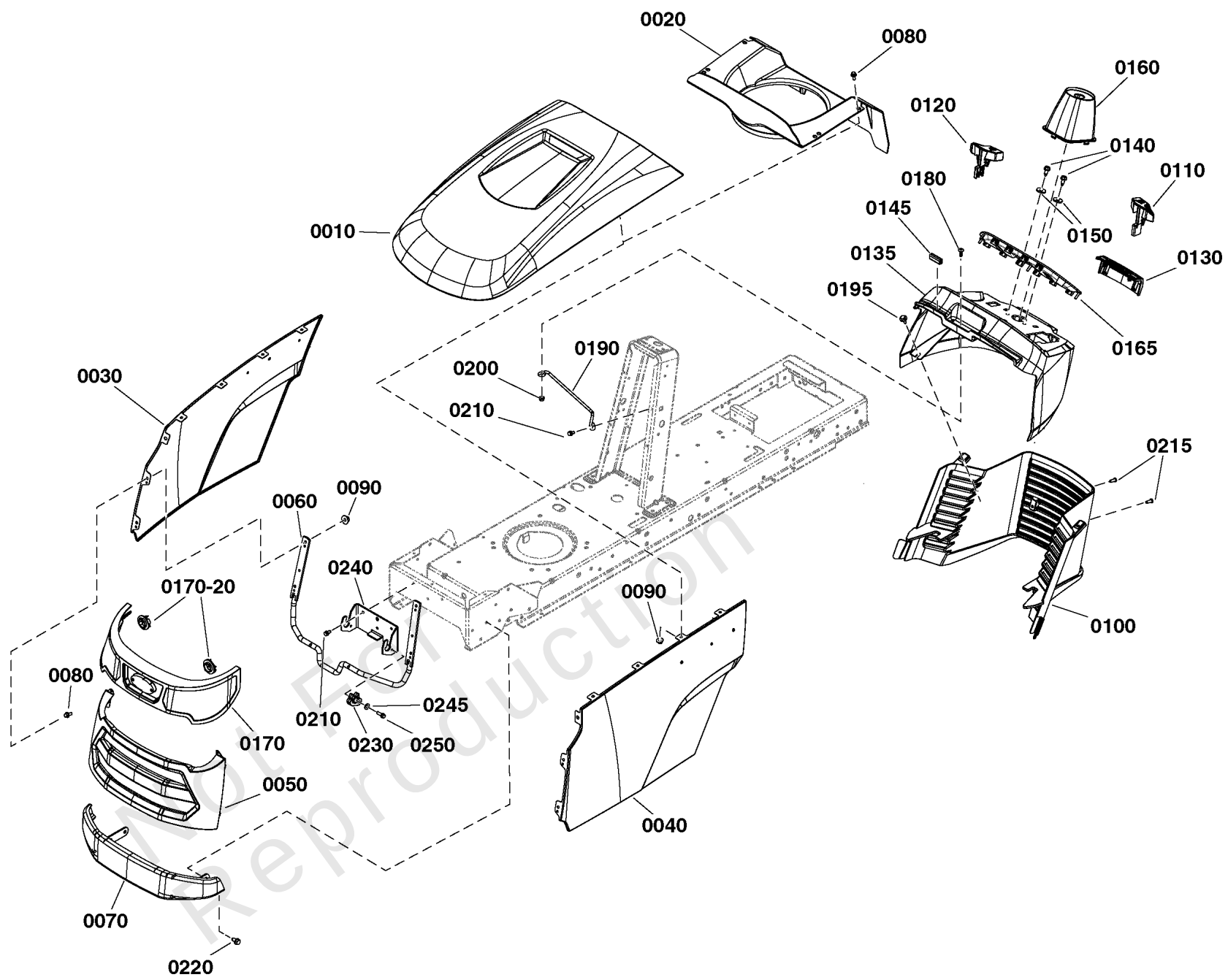
Front Axle Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1734135SM	2	CAP, Hub
0020	1611710SM	2	E-RING, 3/4
0030	2860183SM	4	WASHER, Flat, 3/4
0040	1756386YP	1	AXLE, Front
0040-10	1704314SM	2	LUBE FITTING, .250 DR -(Included with Ref. No. 0040)
0060	1721918ASM	1	HOOK, Mower, Hitch
0070	1960652SM	2	SCREW, Hex Flange, Whiz Lock, 7/16-14 x 1-1/2
0110	1960032SM	2	SCREW, Hex Head, 3/8-16 x 1 1/4
0120	1731912SM	2	BUSHING, 3/8 ID x 5/8 OD x 1/2
0130	1751964YP	1	TIE ROD
0135	1960703SM	2	WASHER, 5/8
0140	1727872ASM	1	SPINDLE ASSEMBLY, R.H.
0150	703893	2	NUT, CNTR LCK, 3/8-16
0160	1751922YP	1	SPINDLE ASSEMBLY, L.H.

Hood, Grille & Dash Group

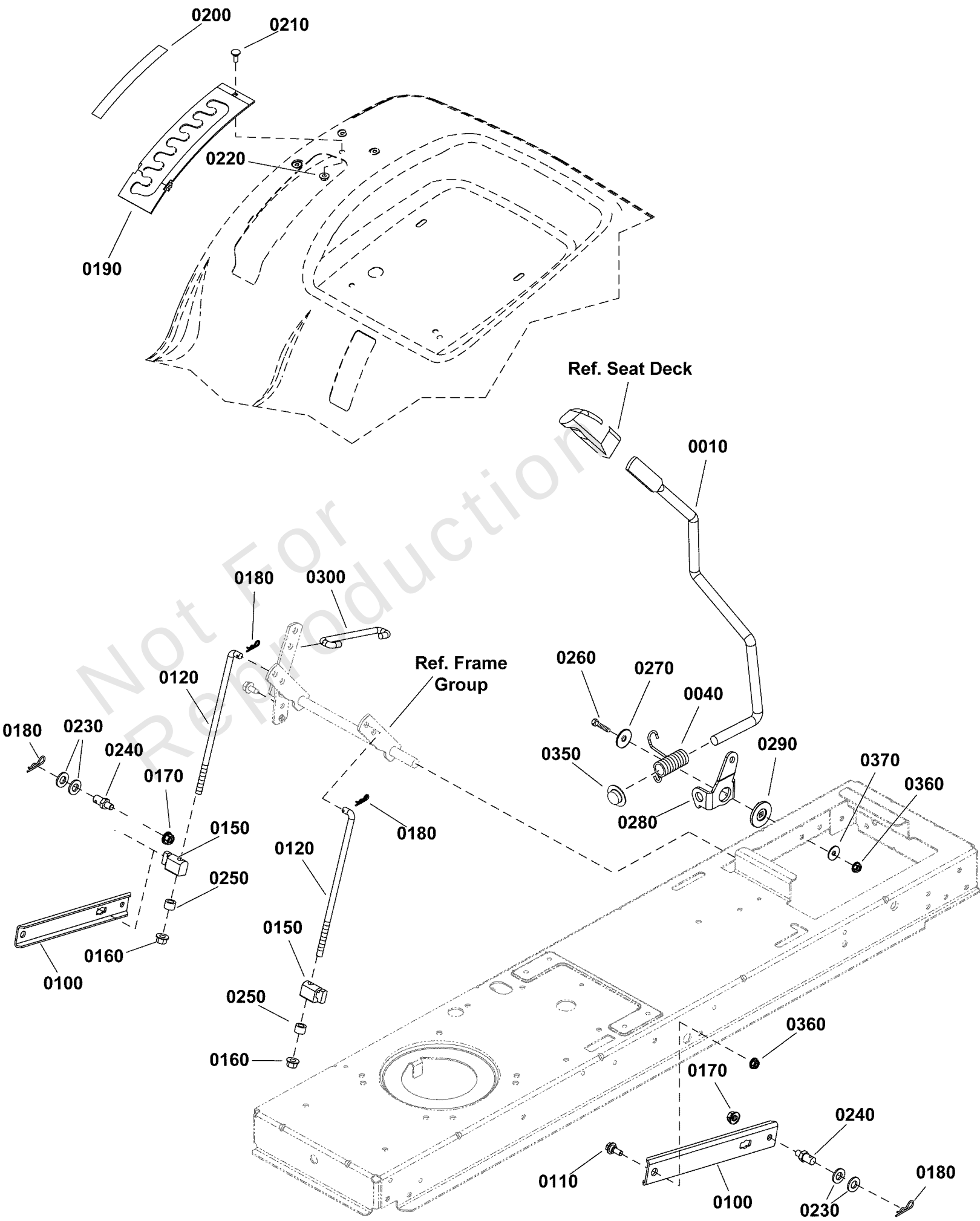
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691926-00



Hood, Grille & Dash Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1754921CYP	1	HOOD, w/Scoop
0020	7102326YP	1	AIR DUCT, Plenum
0030	1761173CYP	1	PANEL, Side, RH
0040	1761174CYP	1	PANEL, Side, LH
0050	1761029CYP	1	GRILLE
0060	1761070YP	1	ROD, Hood Hinge
0070	1761429AYP	1	GRILLE, Front
0080	1960295SM	12	CAPSCREW, Hex Flange, Whiz Lock, 1/4-20 x 5/8
0090	703161	12	NUT
0100	1761508YP	1	LOWER DASH ASSEMBLY
0110	1761401YP	1	KNOB, Parking Brake
0120	1761402YP	1	KNOB, Cruise
0130	1761509YP	1	DECORATIVE TRIM
0135	1761253YP	1	DASH, Upper
0140	1960541SM	2	CAPSCREW, Hex Head Taptite, 5/16-18 x 3/4
0145	1761773YP	2	EDGING, Rubber
0150	703298	2	WASHER, 5/16
0160	1761399YP	1	COVER, Steering Shaft
0165	1761463YP	1	DASH BEZEL
0170	1761035YP	1	HEADLIGHT ASSEMBLY -(Incl. Ref. Nos. 0170-20)
0170-20	1760239YP	2	LED HEADLIGHT AND SOCKET ASSEMBLY -(Included with Ref. No. 0170)
0180	770135	1	SCREW
0190	1761481YP	1	ROD, Dash Support
0195	2860664SM	2	SCREW, HEX SEMS WSHR,
0200	703463	1	NUT, GR5, 1/4-20
0210	704130	4	SCREW, HEX, 1/4-20X.5
0215	1960556SM	2	SCREW, Pan Head Torx, Taptite, 1/4-20 x 3/4
0220	703985	4	SCREW, 5/16-18X.5
0230	1761068YP	2	CLIP, Hood Hinge
0240	1761212CJYP	1	BRACKET, Hood Hinge
0245	703332	2	WASHER
0250	703466	2	BOLT, GR5, 1/4X.0750



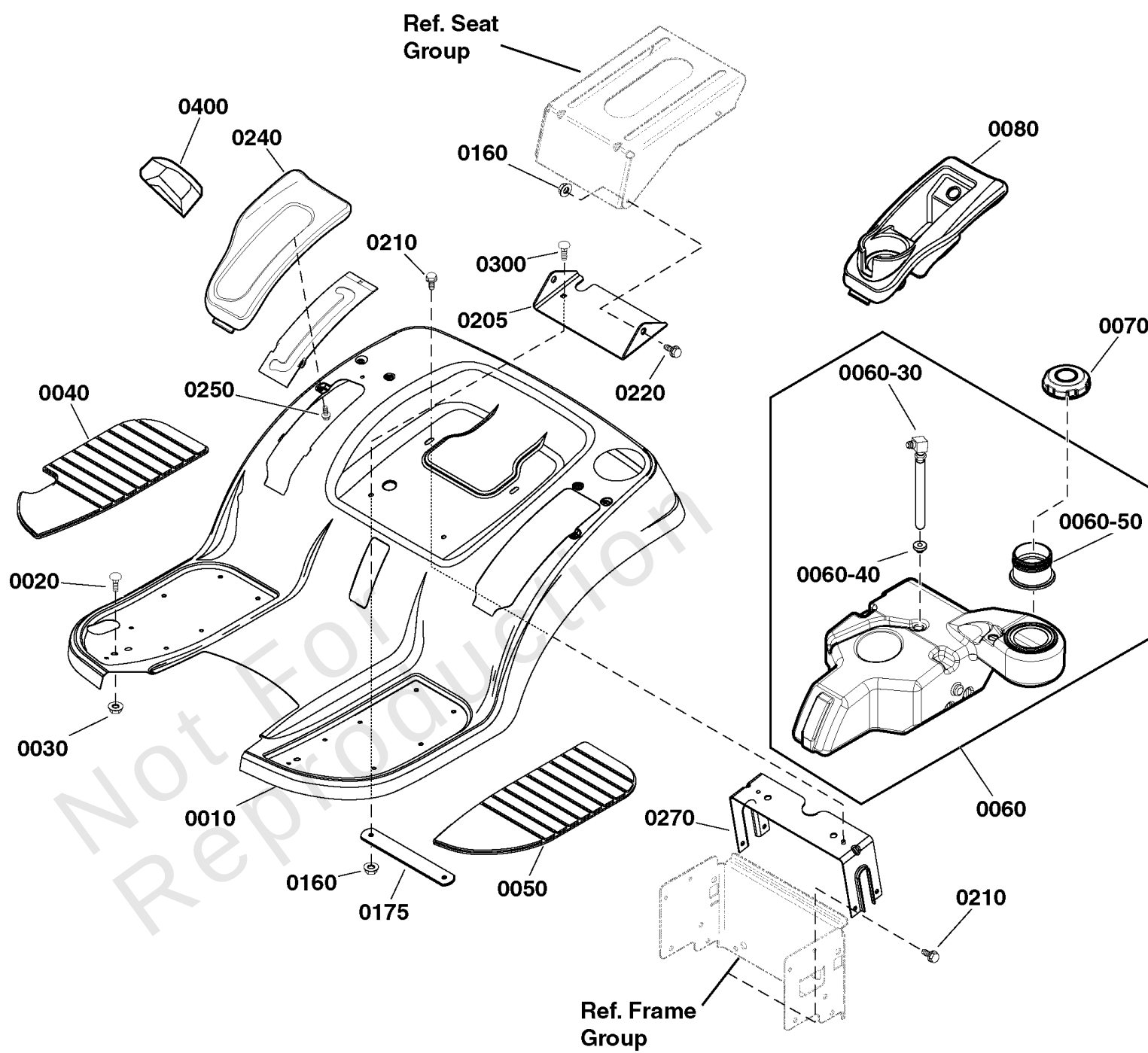
Lift Group - Manual

REF NO	PART NO	QTY	DESCRIPTION
0010	1728070SM	1	ROD, Lift Handle, 17.7
0040	1729652SM	1	SPRING, Torsion
0100	1731417SM	2	ARM, Rear Lift
0110	1732426SM	2	BOLT-SHLDR 5/16-18 0.
0120	1727955SM	2	ROD, Lower Lift, 10.00 LG
0150	1731894SM	2	TRUNNION
0160	1960687SM	2	NUT, Hex Flange, ESNA, 3/8-16
0170	1931211SM	2	NUT, Hex, Flange Lock, 3/8-16
0180	1960074SM	4	CLIP, HAIR PIN .093DI
0190	1727985SM	1	QUADRANT, Lift Height
0200	1730264SM	1	DECAL, Height Of Cut
0210	1960252SM	1	BOLT-RD HD SH SQ NK 1
0220	1930641SM	1	NUT, Hex Flange Whiz, 1/4-20
0230	1960170SM	2	WASHER, 1/2
0240	094067MA	2	PIN, Threaded Shoulder
0250	1666294SM	2	SPACER
0260	84003606	1	SCREW
0270	1933468SM	1	WASHER, 5/16 x 1-1/4 OD
0280	1728990ASM	1	CLEVIS, Lift
0290	1727935SM	1	SPACER-PIVOT 0.330ID
0300	1727954SM	1	ROD, Lift, 5.43 LG
0350	771009	1	PUSHNUT, 5/8
0360	703115	3	NUT
0370	703298	1	WASHER, 5/16

Seat Deck & Fuel Tank Group

Note: Unless noted otherwise, use the standard torque specifications

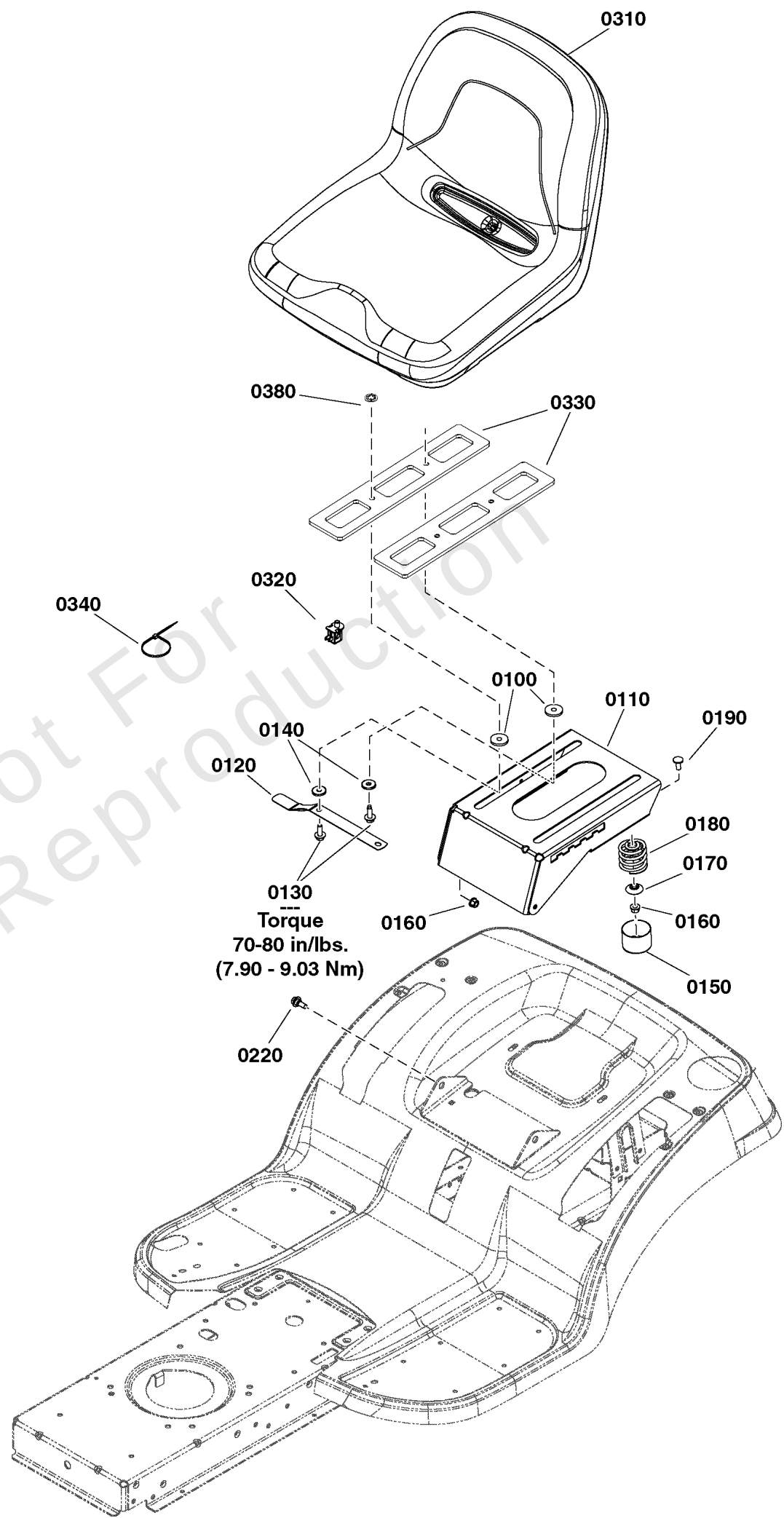
Mfg. No: 2691926-00



Seat Deck & Fuel Tank Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1727264CSM	1	DECK, Seat w/Footrests (Orange)
0020	703185	2	BOLT, Round Head, Short Square Neck
0030	703409	2	NUT, 5/16-18, GR5
0040	1728007SM	1	PAD, Footrest, R.H.
0050	1728006SM	1	PAD, Footrest, L.H.
0060	1738932YP	1	TANK, Fuel (Without Sender) -(Incl. Ref. Nos 0060-30, 0060-40 & 0060-50)
0060-30	1736609YP	1	FITTING & HOSE ASSEMBLY, Fuel Tank
0060-40	1654930SM	1	BUSHING, Fuel Tank
0060-50	1751624YP	1	NECK, Fuel Filler (Not Shown)
0070	5101651SM	1	CAP, FUEL, VENTED
0080	1739535YP	1	POD, L.H.
0160	703115	2	NUT
0175	1759177CJYP	1	BRACKET, Support, Seat Pivot
0205	1757755BMYP	1	SUPPORT, Seat Pivot
0210	703949	6	SCREW, 5/16-18.625
0220	703851	2	BOLT, 5/16-18X1.15
0240	1739537YP	1	POD, R.H.
0250	1960536SM	6	SCREW, HEX WSHR HD PL
0270	1731310SM	1	SUPPORT, Seat Deck
0300	704065	2	BOLT, 5/16-18X.875
0400	1722302SM	1	GRIP

Seat Group



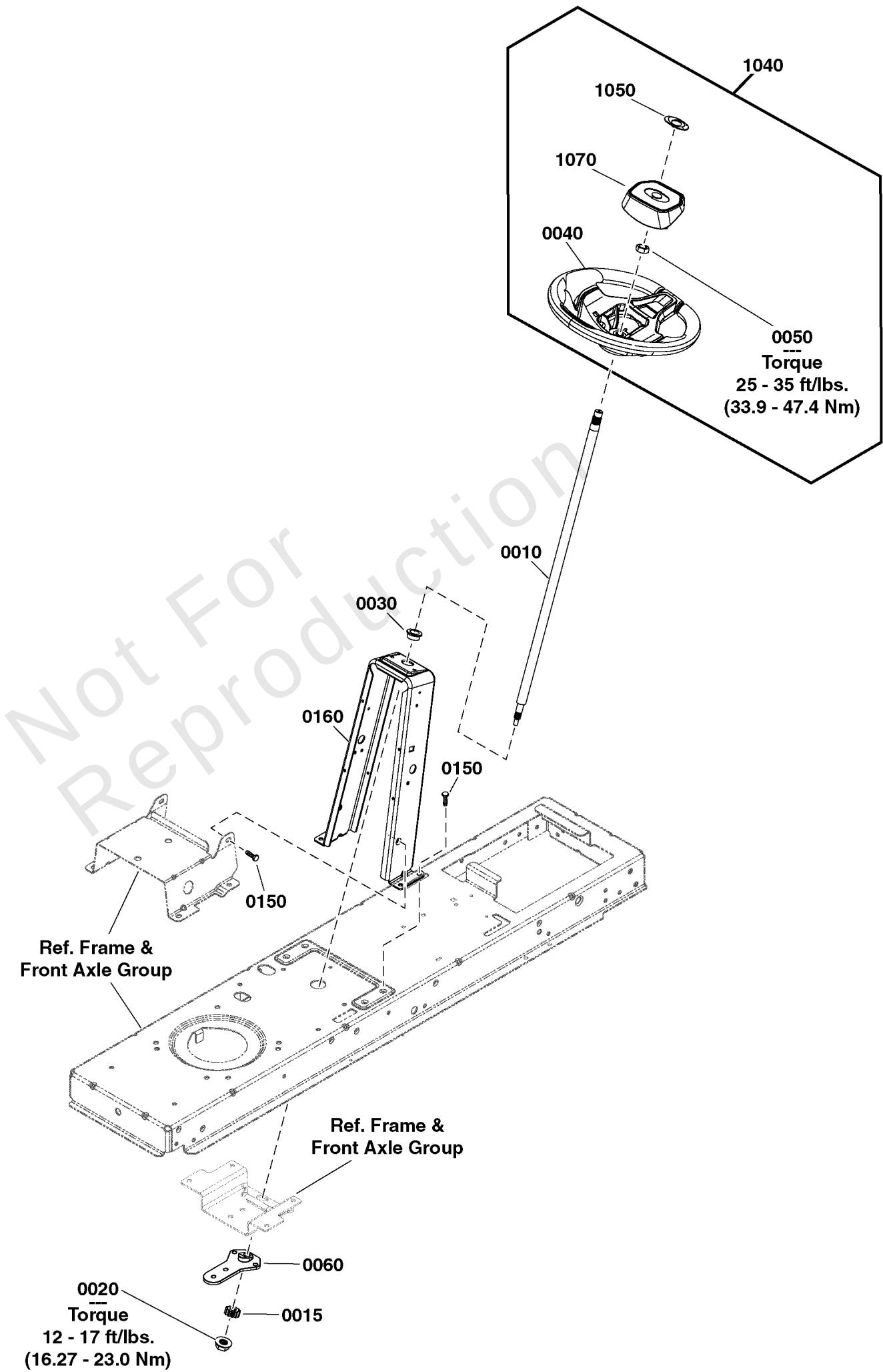
Seat Group

REF NO	PART NO	QTY	DESCRIPTION
0100	1731300SM	4	SPACER, 5/16 ID x 1-1/4 OD x 5/16"
0110	1755767BMYP	1	SUPPORT, Seat
0120	1727268BMYP	1	LATCH, Seat
0130	1933689SM	4	SCREW, 5/16-18 x 1-1/2, Hex Flange, Whiz Lock
0140	703298	4	WASHER, 5/16
0150	1704724SM	2	COVER, Spring, 1-1/2"
0160	703115	4	NUT
0170	1709256SM	2	WASHER, Spring, 5/16 x 1 1/4
0180	1704728SM	2	SPRING, Compression, 2"
0190	703225	2	BOLT
0220	703851	2	BOLT, 5/16-18X1.15
0310	84003946	1	SEAT, 15"
0320	7023354YP	1	SWITCH, SEAT
0330	84003652	2	SPACER, Plate
0340	703586	1	TIE, SELF LOCKING
0380	703297	4	RETAINER, GR5, 5/16

Steering Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691926-00



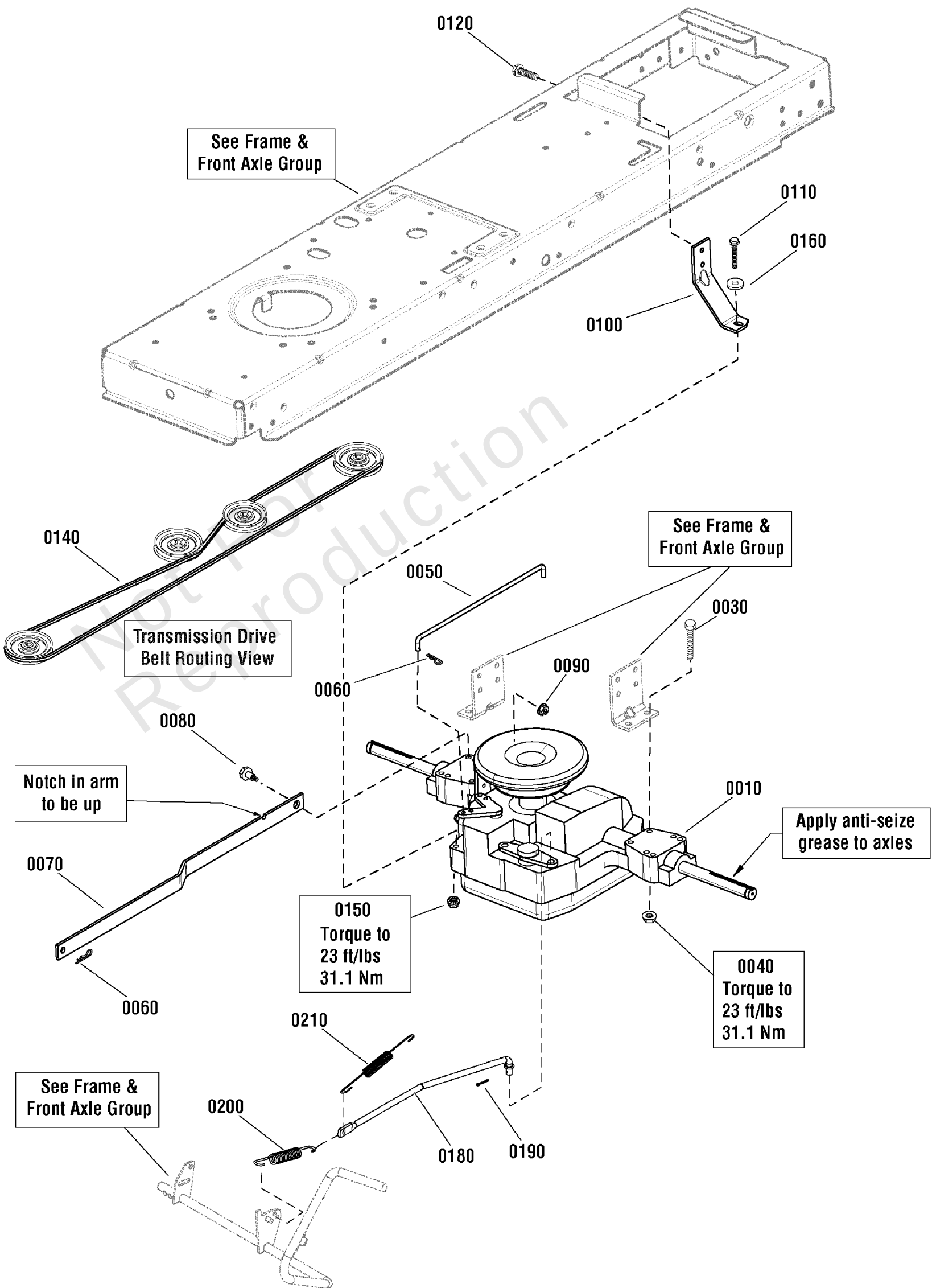
Steering Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1761012YP	1	SHAFT, Steering
0015	1761013YP	1	GEAR, Pinion
0020	704067	1	NUT, HEX FLNG,5/16-18
0030	1729665SM	1	BUSHING, Steering, 3/4 ID
1040	84001122	1	KIT, Steering Wheel, Simplicity -(Incl. Ref. Nos. 0040, 0050, 1050 & 1070)
0040	-----	1	STEERING WHEEL
0050	1960576SM	1	NUT, Hex Lock, ESNA Light, 5/8-18
1050	1755843YP	1	DECAL, Logo, Steering Wheel
1070	84003162	1	CAP, Steering Wheel, Simplicity
0060	1761010YP	1	SUPPORT, Steering
0150	703949	6	SCREW, 5/16-18.625
0160	1761498CJYP	1	TOWER, Steering

Transmission Group - Tuff Torq K46BL

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691926-00



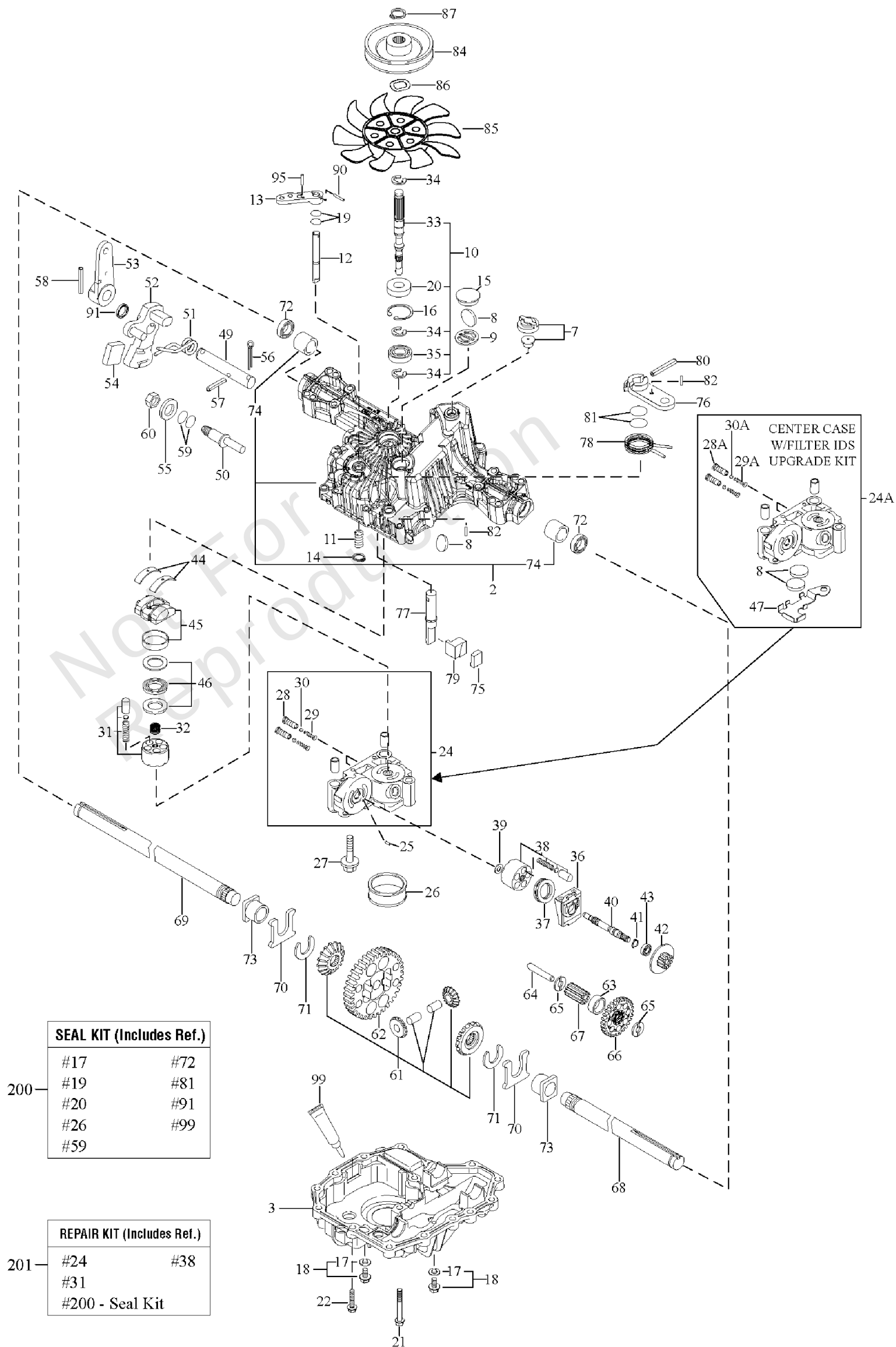
Transmission Group - Tuff Torq K46BL

REF NO	PART NO	QTY	DESCRIPTION
0010	1761325YP	1	TRANSMISSION ASMY-HUN
0030	1960586SM	4	CAPSCREW, Hex Flange, Whiz Lock, 5/16-18 x 2-1/2
0040	703409	4	NUT, 5/16-18, GR5
0050	1728120SM	1	ROD, Bypass, 1/4 x 11 7/16
0060	1722460SM	2	PIN, Hair
0070	1727258SM	1	ARM, Control, 23.69" Lg
0080	1732426SM	1	BOLT-SHLDR 5/16-18 0.
0090	1935048SM	1	NUT, Hex Flange, Two Way Lock, 5/16-18
0100	1754842BMYP	1	STRAP, Torque 7 GA
0110	1922127SM	1	SCREW, Hex Head Cap, 5/16-18 x 1 3/4
0120	703228	1	SCREW, 5/16-18 X .75
0140	1728008SM	1	V-BELT, HA, 89-1/4" Long
0150	703115	1	NUT
0160	703298	1	WASHER, 5/16
0180	1727253SM	1	ROD, Brake, 3/8 Dia. x 15-1/8 Long
0190	703312	1	PIN, COTTER, 3/32X.75
0200	1731262SM	1	SPRING, Extension, 11/16 x 3-3/8
0210	1721995SM	1	SPRING, Extension, 5/8 x 6-5/8

Transmission SERVICE PARTS - Tuff Torq K46BL (1729589)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691926-00



Transmission SERVICE PARTS - Tuff Torq K46BL (1729589)

REF NO	PART NO	QTY	DESCRIPTION
1	1729589	1	* TRANSMISSION, Tuff Torq K46BL
2	-----	1	KIT, Upper Case
3	-----	1	LOWER CASE
7	1718052	1	VENT VALVE 15
8	1724279	2	MAGNET
9	-----	1	* MAGNET HOLDER
10	-----	1	* KIT, Pump Shaft/Bearing
11	-----	1	* SPRING 25
12	1724281	1	BYPASS SHAFT A
13	1720418	1	LEVER, Bypass
14	1718061	1	RING, Snap, 10
15	1724282	1	SEALING CAP 30
16	1708650	1	RING, Snap, C 35
17	1724323	2	SEAL WASHER 8
18	-----	1	* KIT, Drain Bolt
19	1708691	2	O-RING, 1A P10A
20	1708651	14	SEAL TC 153507
21	-----	1	* SCREW, Tapping, 8 * 55
22	1707789	1	SCREW, Tapping, 8 * 30
24	-----	1	* CENTER CASE K W/ 1.2 FILTER IDS KIT
25	1718070	3	PIN, 3 * 9.8
26	-----	2	* FILTER 105
27	1720805	2	BOLT, 10 * 75
28	-----	2	* IDS VALVE 1.2
29	-----	1	* IDS SPRING
30	-----	1	* IDS FILTER 300
31	-----	1	*KIT, Cylinder Block (Pump)
32	-----	3	* SPRING
33	1739892	1	PUMP SHAFT
34	1718076	1	E-RING 15
35	1708673	1	BEARING, 6202C3
36	1718077	1	MOTOR HOUSING
37	-----	1	* THRUST BEARING 51106
38	1718079	1	KIT, Cylinder Block
39	1718084	1	WASHER, 12 * 24 * 1
40	1724943	1	MOTOR SHAFT
41	1708672	1	RING, Snap, S15
42	1724944	1	BRAKE DISC/MOTOR GEAR (10T)
43	-----	1	* BEARING, 6202 RSR C3
44	1718089	1	THRUST METAL
45	-----	1	* SWASH PLATE CMP
46	1718086	1	THRUST BEARING K81105
49	-----	1	* CONTROL SHAFT
50	-----	1	* FULCRUM
51	-----	1	* SPRING, Torsion
52	-----	1	* CONTROL ARM A
53	1724347	1	CONTROL LEVER C
54	-----	1	* JERKY PLATE

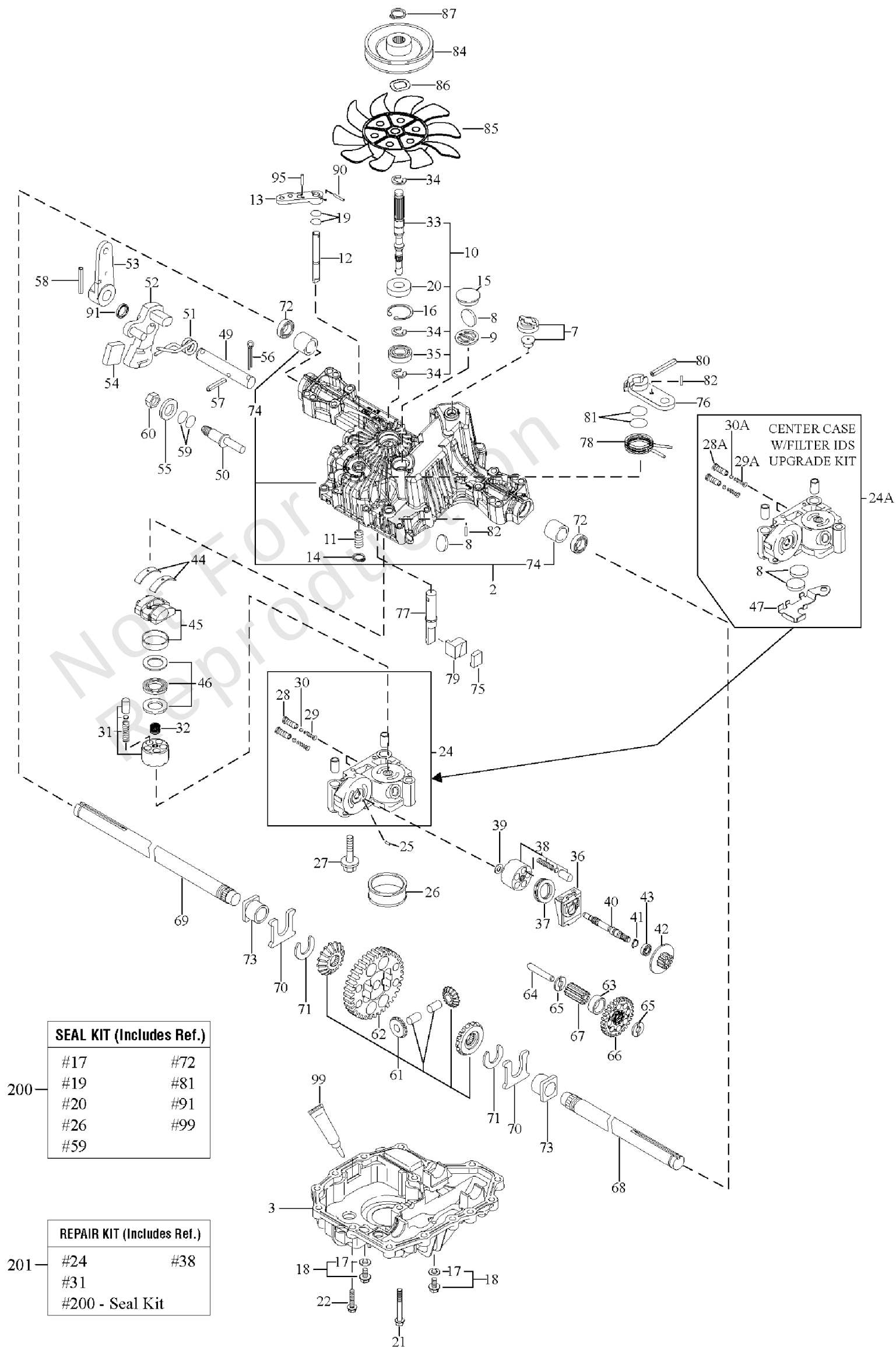
Footnotes:

Note:* See your local authorized dealership for parts and warranty or contact Tuff Torq at www.tufftorqservices.com (U.S. 1-866-572-3441 Int'l 01-423-585-1977)

Transmission SERVICE PARTS - Tuff Torq K46BL (1729589)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691926-00



SEAL KIT (Includes Ref.)	
#17	#72
#19	#81
#20	#91
#26	#99
#59	

REPAIR KIT (Includes Ref.)	
#24	#38
#31	
#200 - Seal Kit	

Transmission SERVICE PARTS - Tuff Torq K46BL (1729589)

REF NO	PART NO	QTY	DESCRIPTION
55	1708689	1	WASHER, 12
56	1724349	1	COTTER PIN, 1/8 * 3/4
57	1724296	1	SPRING PIN 6 * 36
58	1718100	1	ROLL PIN 6 * 40
59	1707879	1	O-RING 1A P14
60	1708692	1	NUT 12
61	-----	1	* KIT, Diff Gear
62	-----	2	* FINAL GEAR (54T)
63	-----	1	* FINAL PINION COLLAR
64	-----	1	* REDUCTION SHAFT
65	1724948	1	WASHER, 12 * 32 * 3.2
66	1724949	1	REDUCTION GEAR (38T)
67	-----	2	* FINAL PINION GEAR (10T)
68	1724303	2	AXLE SHAFT, Left
69	1724304	2	AXLE SHAFT, Right
70	1718112	2	THRUST WASHER
71	1718113	1	RING 17
72	1718111	1	SEAL 19 * 32 * 8 -(For this part only contact B&S Tech support)
73	1718110	1	BUSHING, 19 * 25
74	-----	1	* BUSHING, 19.05
75	1724305	1	BRAKE SHOE
76	1724306	1	BRAKE LEVER
77	-----	1	* BRAKE SHAFT
78	-----	1	* SPRING, Brake Return
79	1724309	1	BRAKE ACTUATOR
80	1724310	1	SPRING PIN 5 * 32
81	1708690	1	O-RING 1A P12
82	1724311	1	SPRING PIN 4 * 16
84	1732918	1	PULLEY D
85	1724314	1	FAN, White
86	1724315	1	WASHER, Wave
87	1724316	1	RING, Snap
90	-----	1	* SPRING PIN 3.0A * 20
91	1724318	1	OIL SEAL 16 * 22 * .03
95	-----	1	* SPRING PIN 3.0A * 16
200	1727541	1	* K46 & T40 SEAL KIT (ALL MODELS)
201	-----	1	* REPAIR KIT K46

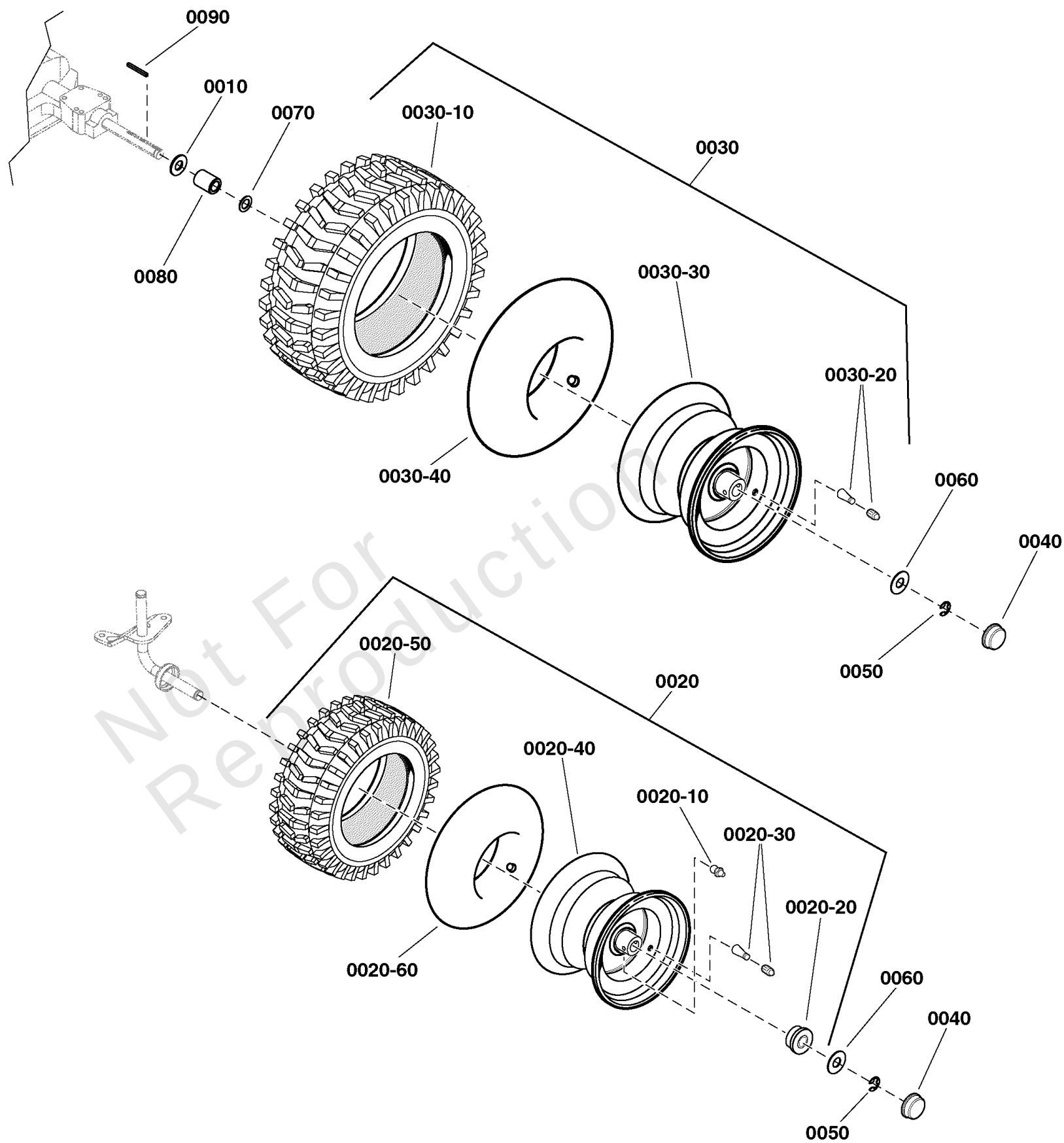
Footnotes:

Note:* See your local authorized dealership for parts and warranty or contact Tuff Torq at www.tufftorqservices.com (U.S. 1-866-572-3441 Int'l 01-423-585-1977)

Wheels & Tires Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 2691926-00



Wheels & Tires Group

REF NO	PART NO	QTY	DESCRIPTION
0010	2860202SM	1	WASHER, 3/4 x 1-5/8 OD x 1/8 Thick
0020	1761503YP	1	WHEEL AND TIRE ASSEMBLY, Front, 15 x 6-6
0020-10	84003425	1	ZERK, Grease Fitting
0020-20	84003424	1	BEARING, Ball
0020-30	2172353SM	1	VALVE STEM & CAP
0020-40	-----	1	Rim -(Refer to Note: *)
0020-50	7101556YP	1	TIRE, 15 x 6 2 Ply K358
0020-60	1664090SM	1	TUBE, Tire, Front
0030	1732324SM	1	WHEEL AND TIRE ASSEMBLY, Rear, 22 x 10 - 8
0030-10	7101559YP	1	TIRE, 20 x 8-8, K358
0030-20	2172353SM	1	VALVE STEM & CAP
0030-30	-----	1	RIM -(Refer to Note: *)
0030-40	2173477SM	1	TUBE
0040	094618MA	4	HUB CAP
0050	2827794SM	4	KLIPRING, .75 Dia Shaft
0060	17X195MA	4	WASHER, Flat 1-3/4
0070	17X160MA	2	WASHER, Flat, 3/4 x 1-1/4 x 16
0080	1730181SM	2	SPACER, 3/4 ID x 1-1/4 OD x 1-5/8
0090	021553MA	2	KEY, Square, 3/16

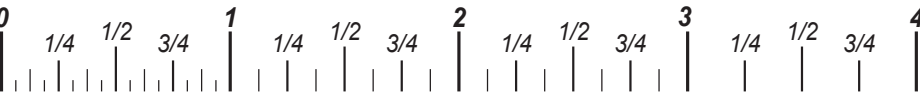
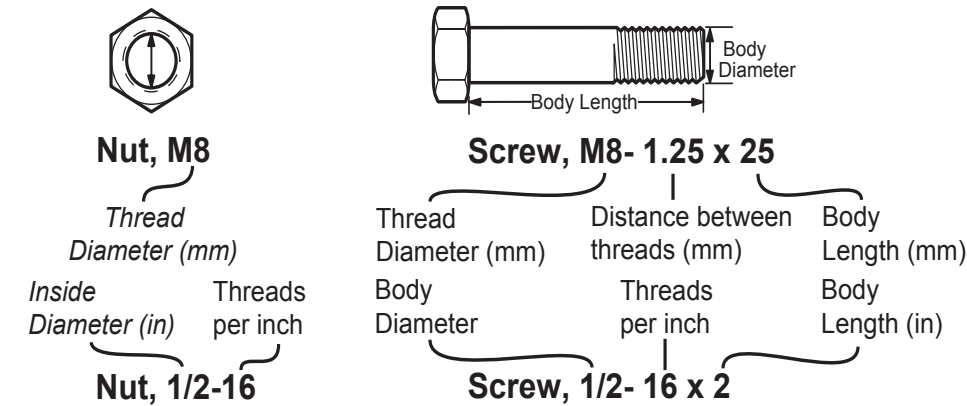
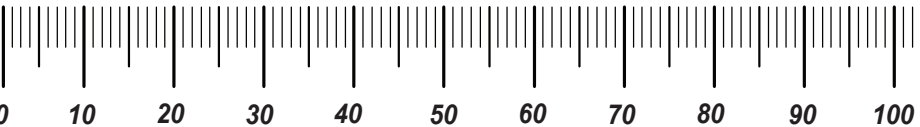
Footnotes:

Note* Not a serviceable part, service wheel complete

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).

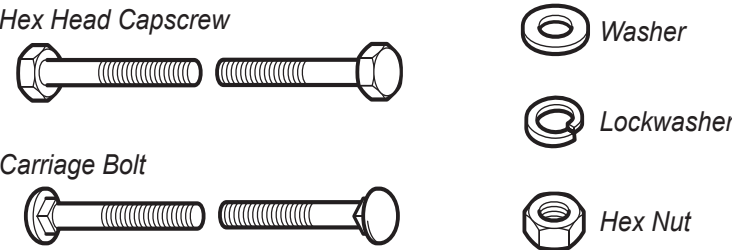
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

