



Parts Manual

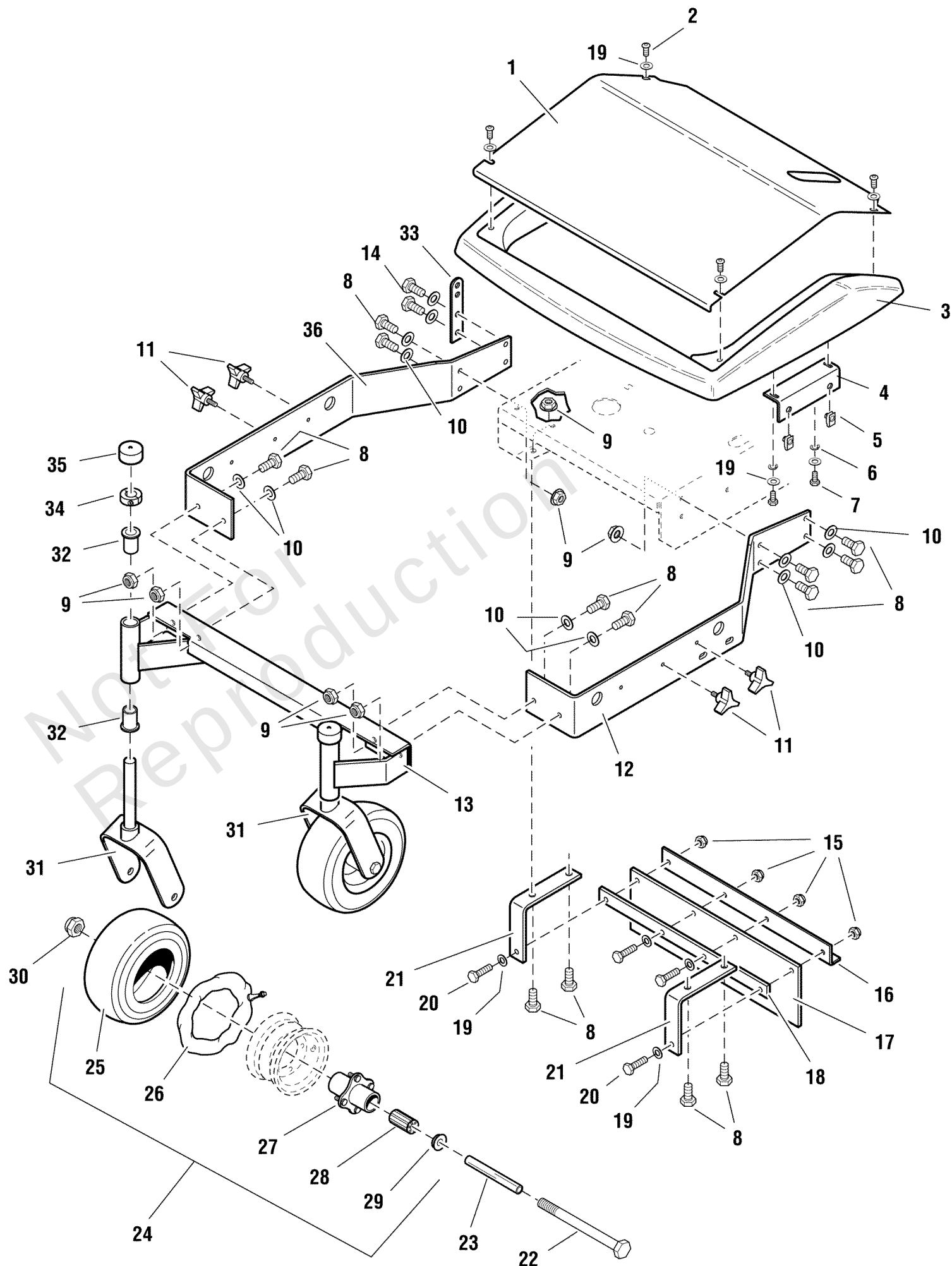
Mfg. No: 5900111
Hydrocut Series w/ 36" Mower Deck
(HC36KAV13E)

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36" Mower Deck - Frame, Caster & Shield

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



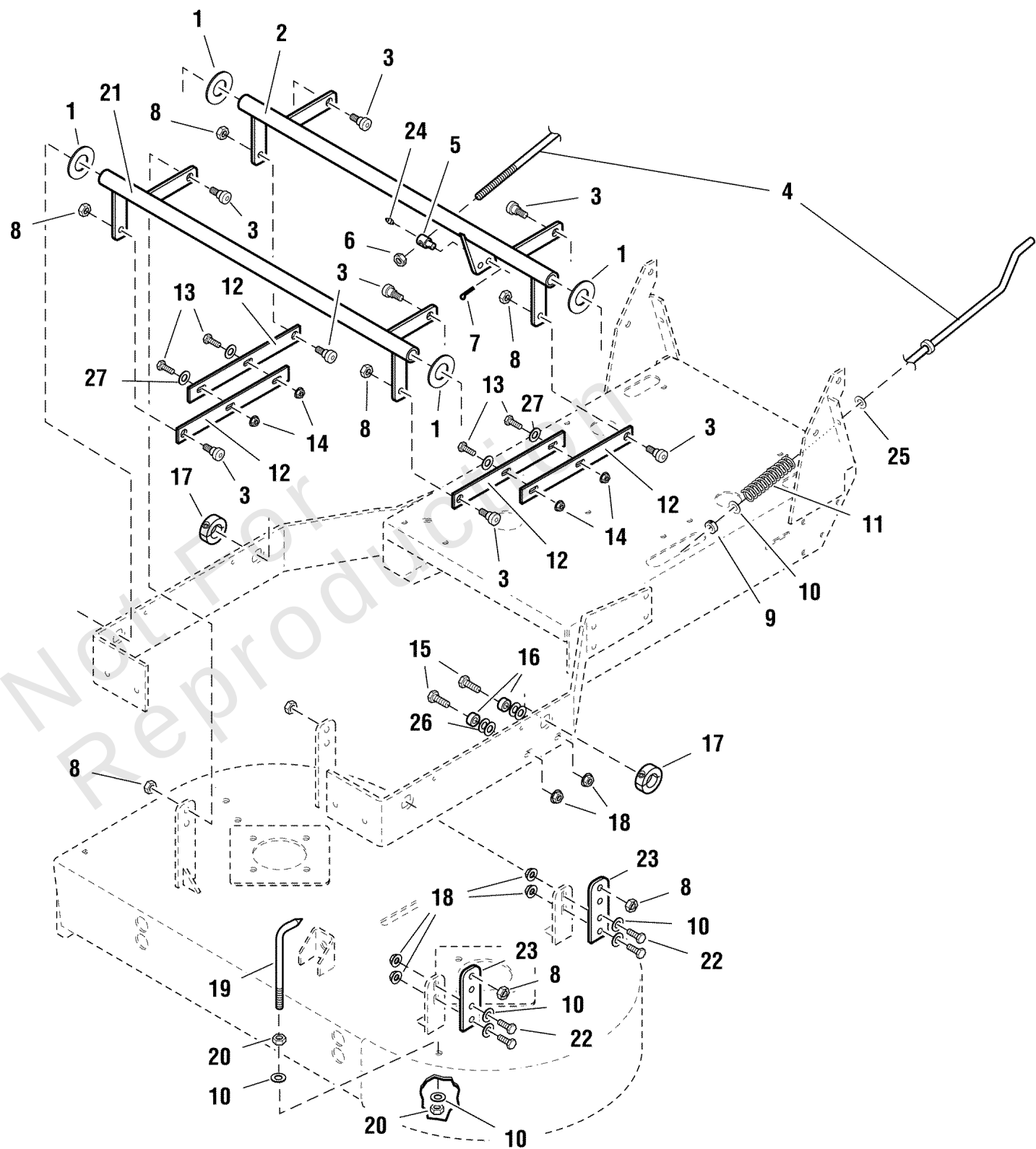
36" Mower Deck - Frame, Caster & Shield

REF NO	PART NO	QTY	DESCRIPTION
1a	5048145B	1	GUARD, INSERT -(S/N: 2014433878 & Below)
1b	5407385B	1	SHIELD INSERT -(S/N: 2014433879 & Above)
2	5025299X4	4	SCREW, 1/4-20 X 1/2" ALLEN BH
3	5048150	1	GUARD, MOWER DECK
4	5048353B	2	BRACKET, GUARD
5	5022308	4	BODY CLIP, 5/16-18-7GA MATERIAL
6	5025169	4	WASHER, 1/4 LOCK
7	-----	4	HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR
8	5025013X8	14	BOLT, 3/8-16 X 1" GD5 CZ
9	5025394	16	NUT, 3/8-16 HEX NYLOCK FLANGE
10	5025156	16	WASHER, 3/8 SAE
11	5102355	4	KNOB, PLASTIC, 5/16-18 X 1
12	5047648B	1	RAIL, DECK FRAME - LEFT
13	5049262	1	CASTER MOUNT FRAME, COMPLETE -(Includes Ref No. 14 & 32)
14	5025013X10	2	BOLT, 3/8-16 X 1-1/4" GD5 CZ
15	5025095	4	NUT, 1/4-20 HEX NYLON LOCK
16	5049214B	1	ANGLE, DECK ARM FLAP
17	5049217	1	FLAP, RUBBER
18	5049216B	1	BAR, RUBBER FLAP
19	5025154	8	WASHER, 1/4 SAE
20	5025010X10	4	BOLT, 1/4-20 X 1-1/4", GD5
21	5049215B	2	BRACKET, RUBBER FLAP
22	5025017X44	2	BOLT, 1/2-13 X 5-1/2" GD5 YZ
23	5041657	2	AXLE, CASTER WHEEL
24	5021181S	2	TIRE ASSM, 9 X 3.5 X 4, SILVER -(Includes Ref No. 25 - 29)
25	5021181X1	2	TIRE, Front, 9 x 3.5 x 4
26	5021181X2	2	TUBE
27	5021181SX3	2	HUB & BEARING ASSEMBLY, Complete, Silver -(Includes Ref No. 28 & 29)
28	5021182	2	BEARING, ROLLER 3/4" ID X 3.25" (ONE PER TIRE)(SV) -(1 per tire)
29	5021043	4	RETAINER, Bearing -(2 per tire)
30	5025056	2	NUT, 1/2-13 HEX NYLON LOCK
31	5048172B	2	WELD, CASTER YOKE
32	5020823	4	BUSHING, FLANGE, 3/4 X 1
33	5061717B	1	GUARD, WIRE
34	5010114	2	COLLAR, 3/4" SPLIT
35	5023274	2	CAP,VINYL, 1.375 X 1
36	5047649B	1	RAIL, DECK FRAME - RIGHT

36" Mower Deck - Height Adjustment

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



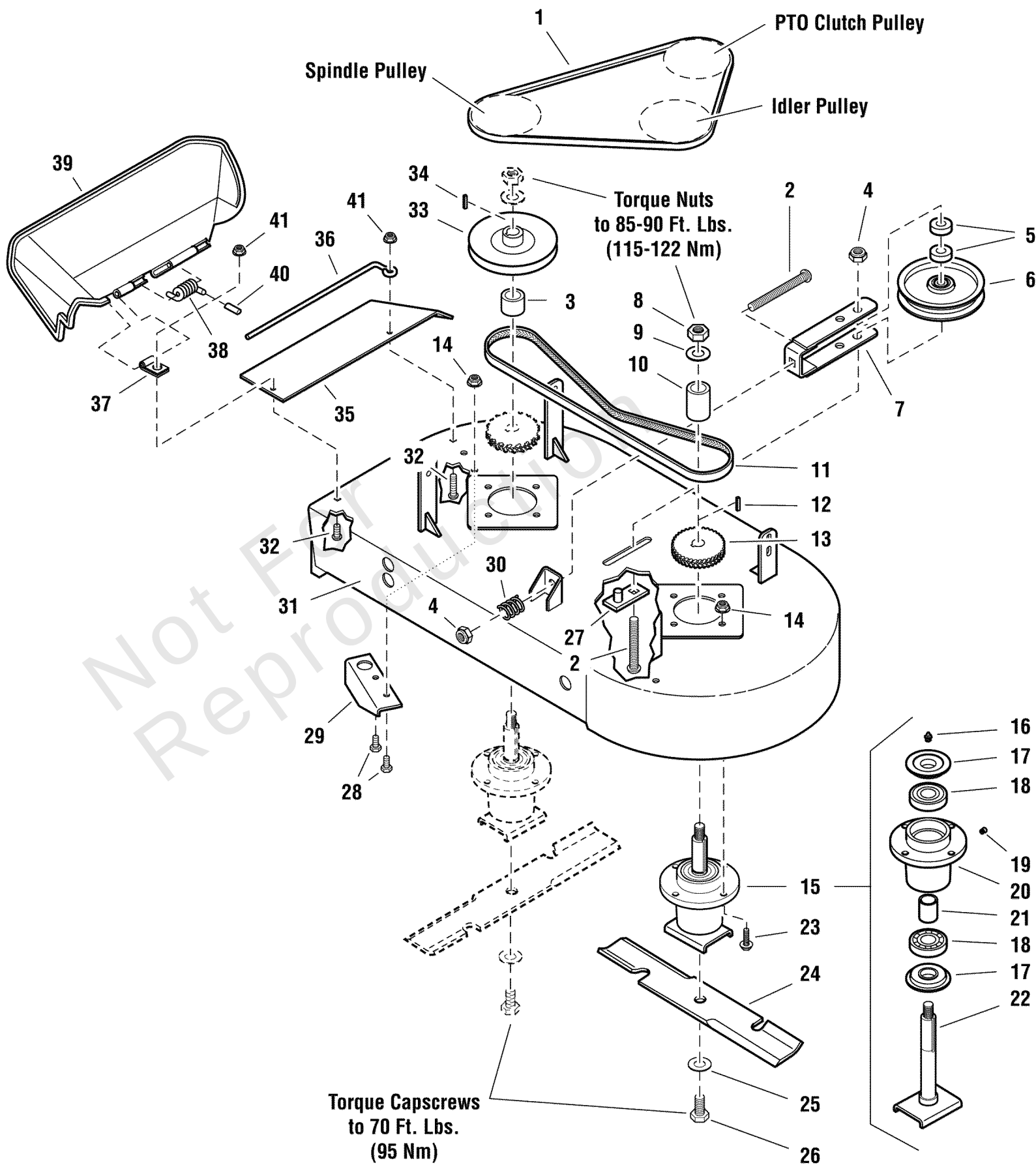
36" Mower Deck - Height Adjustment

REF NO	PART NO	QTY	DESCRIPTION
1	5025162	4	WASHER-1.00 HYDRO CUT
2	5047682B	1	WELD, DECK PIVOT, REAR
3	5025356	8	BOLT, 3/8-16 X 3/8", 1/2" SHOULDER
4	5047655	1	ROD CUTTER DECK HEIGHT CONTROL
5	5048526	1	LINKAGE, ADJUSTER
6	5025096	1	NUT, 3/8-16 HEX NYLON LOCK
7	80002736	1	PIN, 3/32 X 0.750, COT, ZINC/CLEAR
8	5025046	8	NUT, 3/8-16, HEX TOP LOCK
9	5010546	1	COLLAR, 3/8" SET
10	5025156	7	WASHER, 3/8 SAE
11	5022645	1	SPRING, REVERSE RETURN
12	5047710B	4	LINK, DECK ADJUST.
13	5025011X8	4	BOLT, 5/16-18 X 1" GD5 YZ
14	5025139	4	NUT, 5/16-18 HEX SERRATED FLANGE (LARGE)
15	5025013X10	2	BOLT, 3/8-16 X 1-1/4" GD5 CZ
16	5044933	2	SPACER, .39 X .75 X .38
17	5048549	2	COLLAR, 1" DOUBLE SPLIT
18	5025394	6	NUT, 3/8-16 HEX NYLOCK FLANGE
19	5047737	1	POINTER, CUT HEIGHT
20	5025034	2	NUT, 3/8-16 HEX
21	5047681B	1	WELD, DECK PIVOT, FRONT
22	5025013X8	4	BOLT, 3/8-16 X 1" GD5 CZ
23	5048439B	2	HANGER
24	5020095	1	GREASE FITTING
25	5048548	1	WASHER, 3/8" NYLON HYDRO CUT
26	5025293	4	WASHER, 3/8" GD.9 FLAT
27	5025155	4	WASHER, 5/16" SAE

36" Mower Deck - Housing, Spindles, Blades & Pulleys

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



36" Mower Deck - Housing, Spindles, Blades & Pulleys

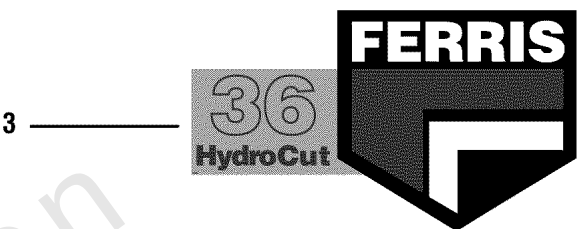
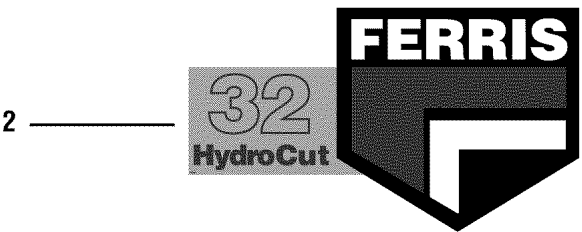
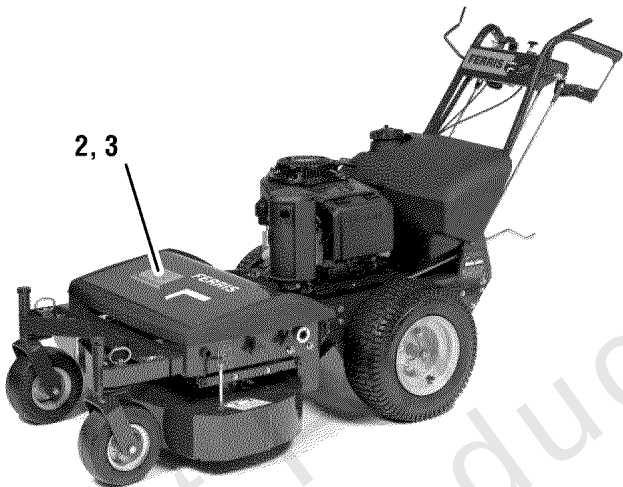
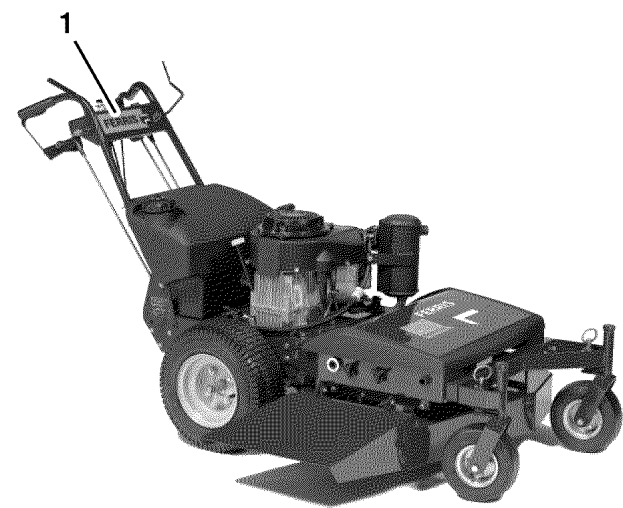
REF NO	PART NO	QTY	DESCRIPTION
1	5023262	1	BELT,#7-8390, 52
2	5025324X32	2	BOLT, 1/2-13 X 4", CARRIAGE
3	5049221	1	SPACER, 1.00 X 1.50 X 1.19
4	5025396	2	NUT, Hex Flange, Nylock, 1/2-13
5	5045023	2	SPACER, .52 X 1.00 X .44
6	5023264	1	PULLEY, FLAT IDLER, 5.0X.75
7	5048994B	1	WELD, IDLER PULLER
8	5025405	2	NUT, 3/4-16 HEX
9	5025406	2	WASHER, 3/4 BELLEVILLE
10	5049218	1	SPACER, 1.00 X 1.57 X 2.19
11	5049238	1	BELT, SPROCKET DRIVE
12	5025389	2	KEY, 1/4" SQ. X 3/4
13	5048977	2	SPROCKET, GOODYEAR EAGLE PD
14	5025392	10	NUT, 5/16-18 HEX NYLOCK FLANGE
15	5061175	2	ASSM, SPINDLE, BLADE SADDLE -(Includes Ref. 16 - 22)
16	5023329	2	GREASE FITTING
17	5049793	4	TRASH SHIELD
18	5023330	4	BEARING
19	5023296	2	RELIEF VALVE
20	5061097	2	SPINDLE HOUSING
21	5061099	2	SPACER, 1.00 X 1.25 X 1.75
22	5061137	2	SPINDLE SHAFT w/ SADDLE
23	5023156	8	BOLT, 5/16-18 X 1 1/4" FLANGE
24	5021227X2	2	BLADE, 18 -(SET OF TWO)
25	5025159	2	WASHER, 5/8" USS
26	5025320X14	2	BOLT, 5/8-11 X 1-3/4 GD8
27	5061727B	1	WELD, RETAINER PULLEY
28	5025145X6	2	BOLT, 5/16-18 X 3/4", CARRIAGE
29	5048954B	1	PLATE, BAFFLE
30	5022788	1	SPRING, COMPRESSION 2" MEDIUM
31	5600234	1	DECK SHELL W/DECALS, 36 HYDROCUT
32	-----	2	BOLT, 1/4-20 X 1", CARRIAGE
33	5047638	1	PULLEY, SPINDLE
34	5050407X8	1	KEY, 1/4 SQ X 1
35	5061511B	1	PLATE, CHUTE SUPPORT
36	5061807B	1	WELD, MOUNT, DISCHARGE CHUTE
37	1704873	1	CLAMP, WIRE, .312DIA . (1) .281 HOLE BLK
38	1723938	1	SPRING, TORSION
39	1705449	1	DEFLECTOR, BLACK
40	1723323	1	CAP, VINYL
41	5025095	2	NUT, 1/4-20 HEX NYLON LOCK

Decals - Brand & Model

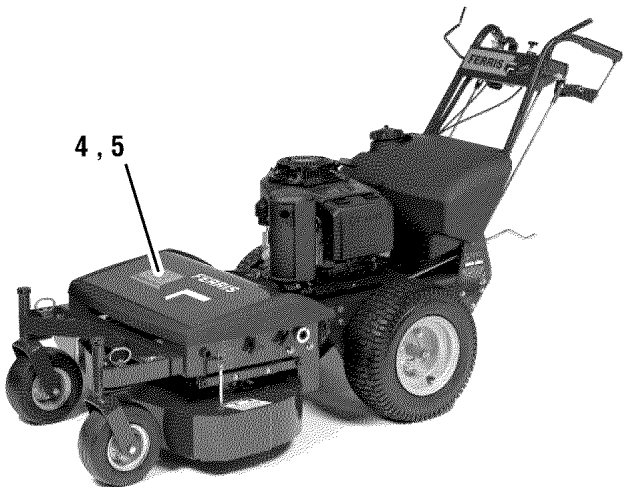
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111

13HP MODELS



16HP MODELS



Decals - Brand & Model

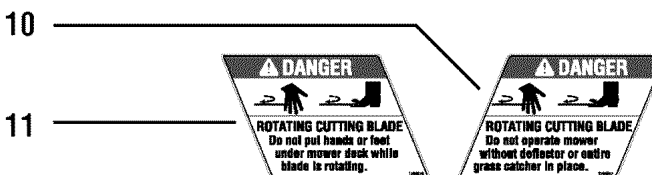
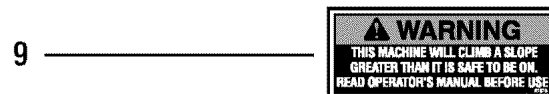
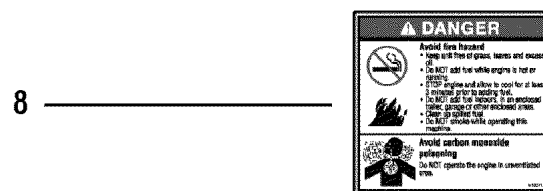
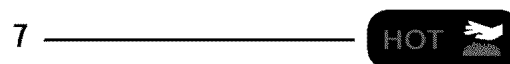
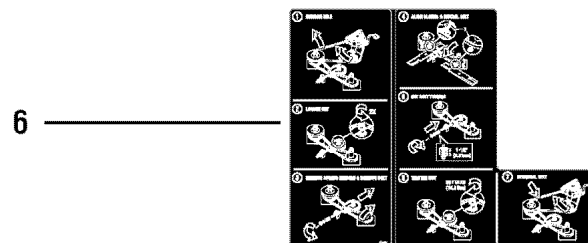
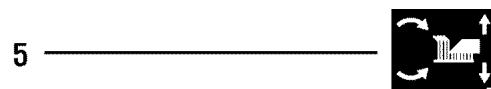
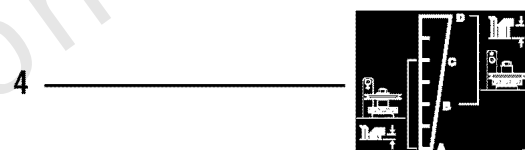
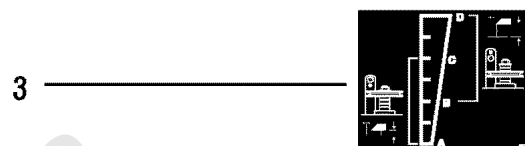
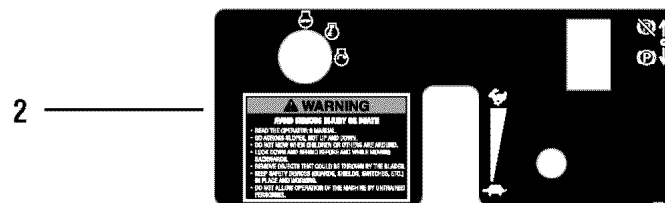
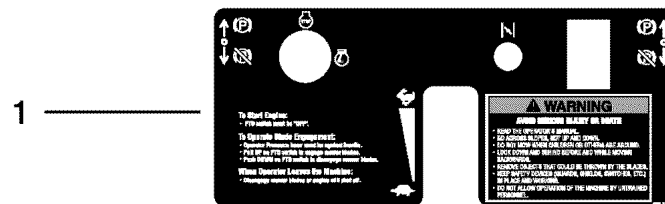
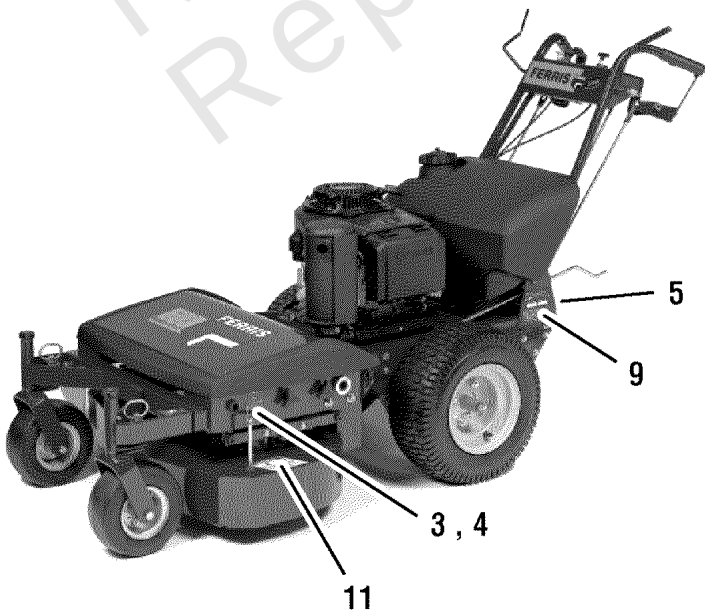
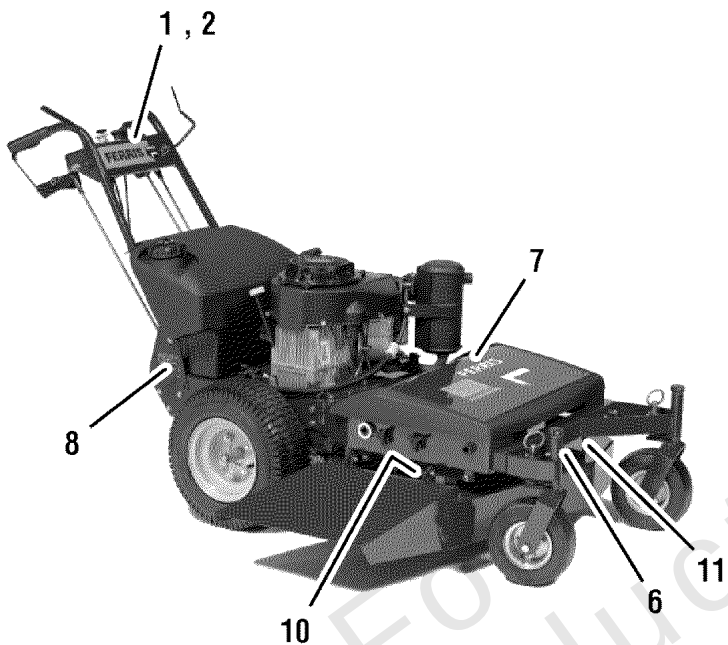
REF NO	PART NO	QTY	DESCRIPTION
1	5022560	1	DECAL, FERRIS TEXT & LOGO
2	5048229	1	DECAL, HydroCut 32
3	5049065	1	DECAL, HYDROCUT 36
4	5022560	2	DECAL, FERRIS TEXT & LOGO
5	7075563	1	DECAL, 32" DECK, SILVER

Not For Reproduction

Decals - Safety & Instruction - Early Models

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



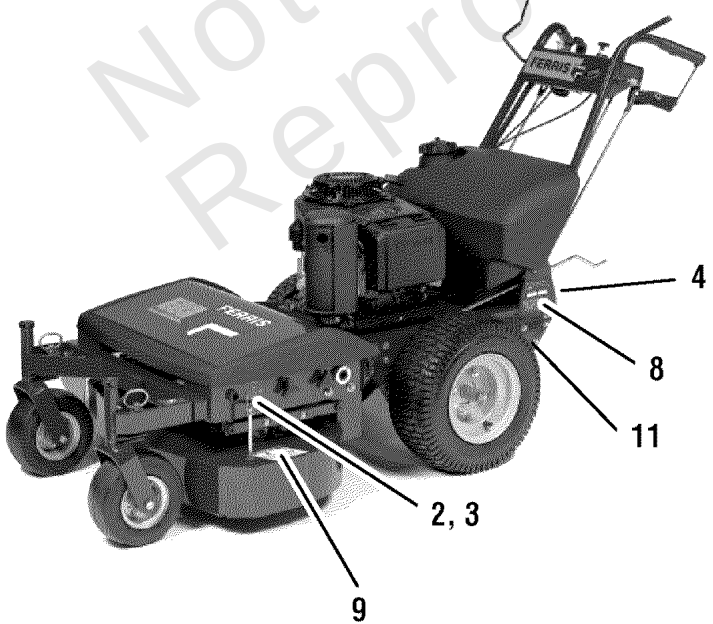
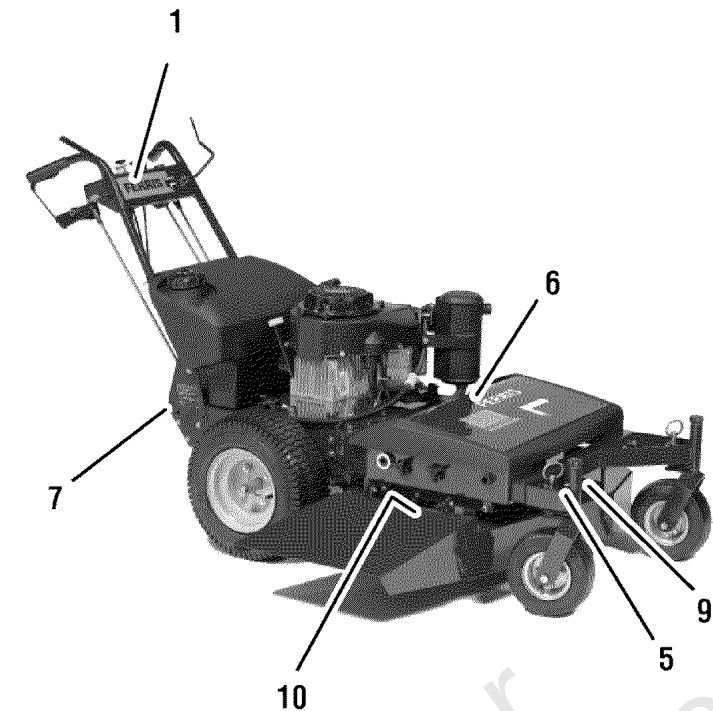
Decals - Safety & Instruction - Early Models

REF NO	PART NO	QTY	DESCRIPTION
1	5048321	1	DECAL, Control Panel -(Manual Start)
2	5061465	1	DECAL, Control Panel -(Electric Start)
3	5049318	1	DECAL, Height Of Cut -(32" model)
4	5049021	1	DECAL, Height Of Cut -(36" model)
5	5047778	1	DECAL, Cut Height Adjust
6	5061537	1	DECAL, Belt R&R -(36" model)
7	1704473	1	DECAL, Hot Surface
8	5049658	1	DECAL, Danger
9	5021818	1	DECAL, Warning, Machine Will Climb
10	1704277	1	DECAL, Danger (Chute In Place)
11	1704276	2	DECAL, Danger (Hand Under Deck)

Decals - Safety & Instruction - Later Models

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



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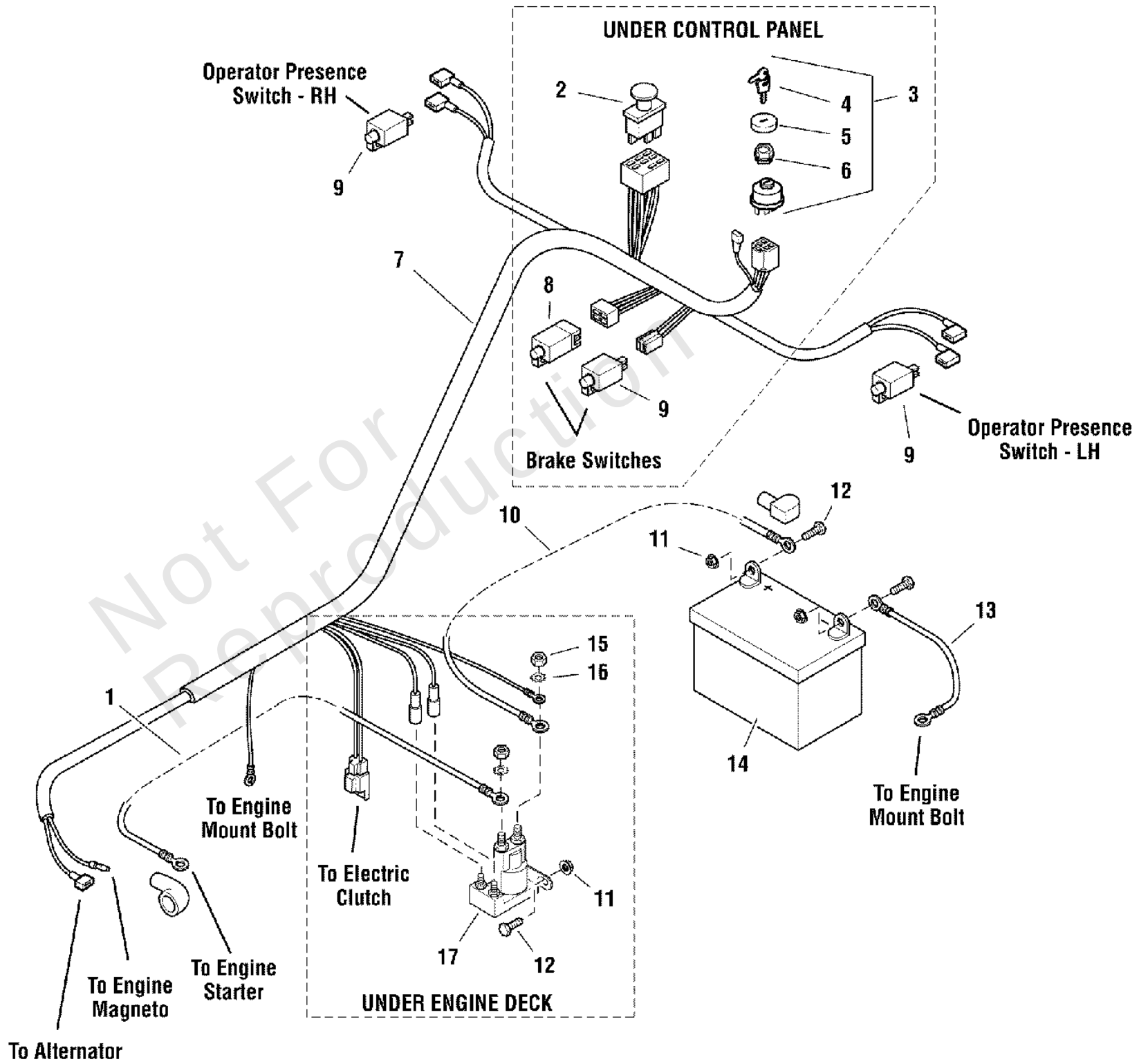
Decals - Safety & Instruction - Later Models

REF NO	PART NO	QTY	DESCRIPTION
1	5100386	1	DECAL, CONTROL PLANEL, HC
2	5049318	1	DECAL, HEIGHT OF CUT -(32" model)
3	5049021	1	DECAL, HEIGHT OF CUT -(36" model)
4	5047778	1	DECAL, DECK HEIGHT ADJUST
5	5100129	1	DECAL, BELT R&R -(36" model)
6	5100387	1	DECAL, WARNING, HOT
7	5049658	1	DECAL, DANGER
8	5100712	1	DECAL, DANGER, FIRE (SP)
9	5100088	1	DECAL, DANGER, MOWER
10	5101292	1	DECAL, DANGER, MOWER DISCHARGE
11	5049320	1	DECAL, HYDRO RELEASE

Electrical Group - Electric Start - S/N: 2013136020 & Below

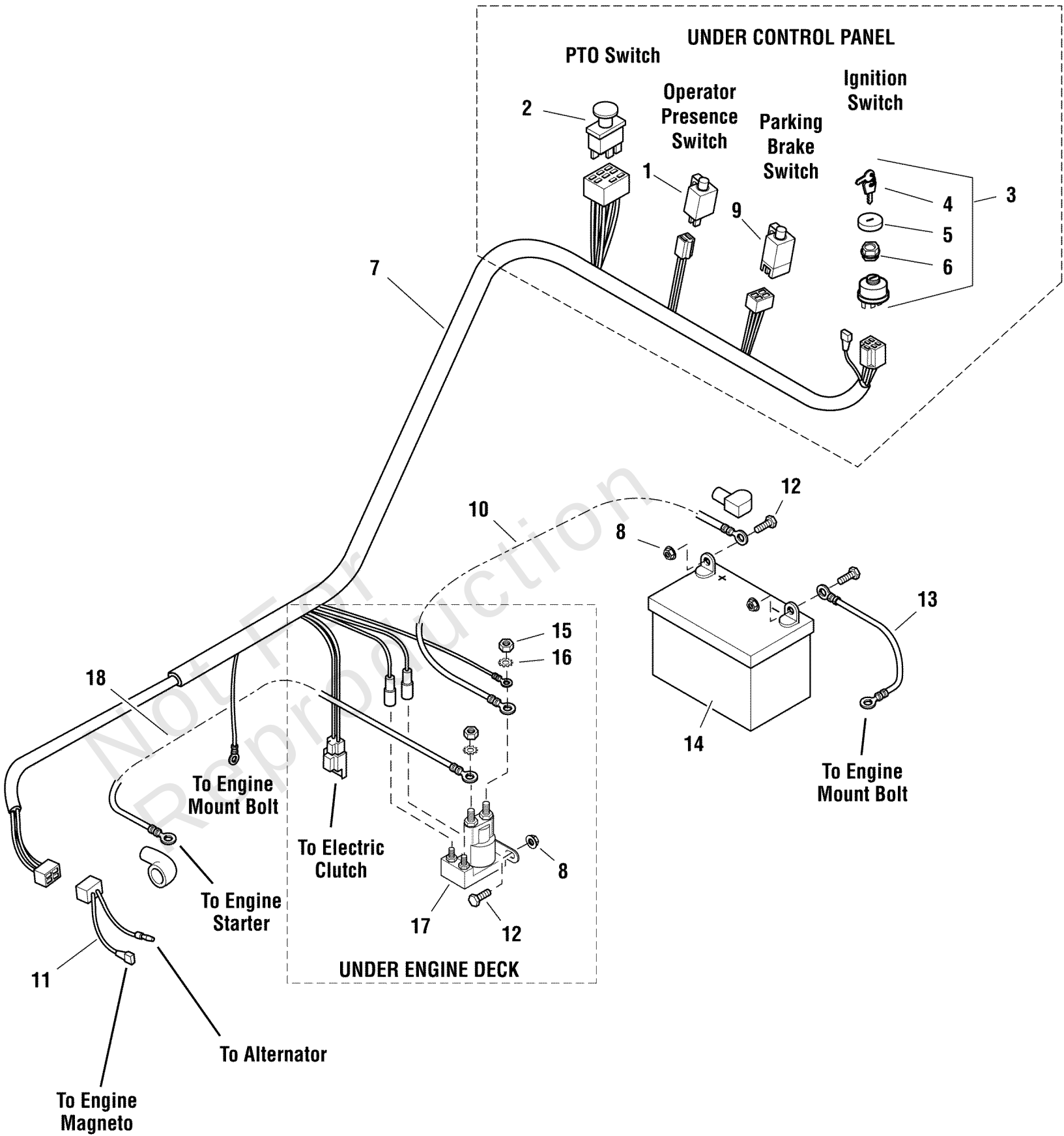
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



Electrical Group - Electric Start - S/N: 2013136020 & Below

REF NO	PART NO	QTY	DESCRIPTION
1	5021542	1	POSITIVE (+) BATTERY CABLE, 30" -(See Motion Control, Parking Brake & Operator Presence Group - Electric Start)
2	5022180	1	SWITCH, BLADE ENGAGEMENT
3	5020927	1	SWITCH, IGNITION, 6 POST -(Includes Ref No. 4 - 6)
4	5022789	1	KEY, IGNITION MOLDED SET
5	5022790	1	COVER, PLASTIC, SNAP ON
6	5022791	1	PLASTIC NUT
7	5061470	1	WIRE HARNESS, MAIN, HYDROCUT
8	5022438	1	SWITCH, Plunger, NO/NO
9	5021769	3	SWITCH, PLUNGER, N.C.
10	5021405	1	POSITIVE (+) BATTERY CABLE, 22"
11	5025126	4	NUT, 1/4-20 HEX SERR. FLANGE
12	5025010X6	4	BOLT, 1/4-20 x 3/4
13	5021406	1	BATTERY CABLE, NEG, 22, 1/4-5/16
14	-----	1	BATTERY, Lawn & Garden, 12V (BCIU1, 340 CCA)
15	5023216	2	NUT, Hex Jam, 5/16-24
16	5023217	2	WASHER, Light Lock, 5/16
17	1724815	1	SOLENOID



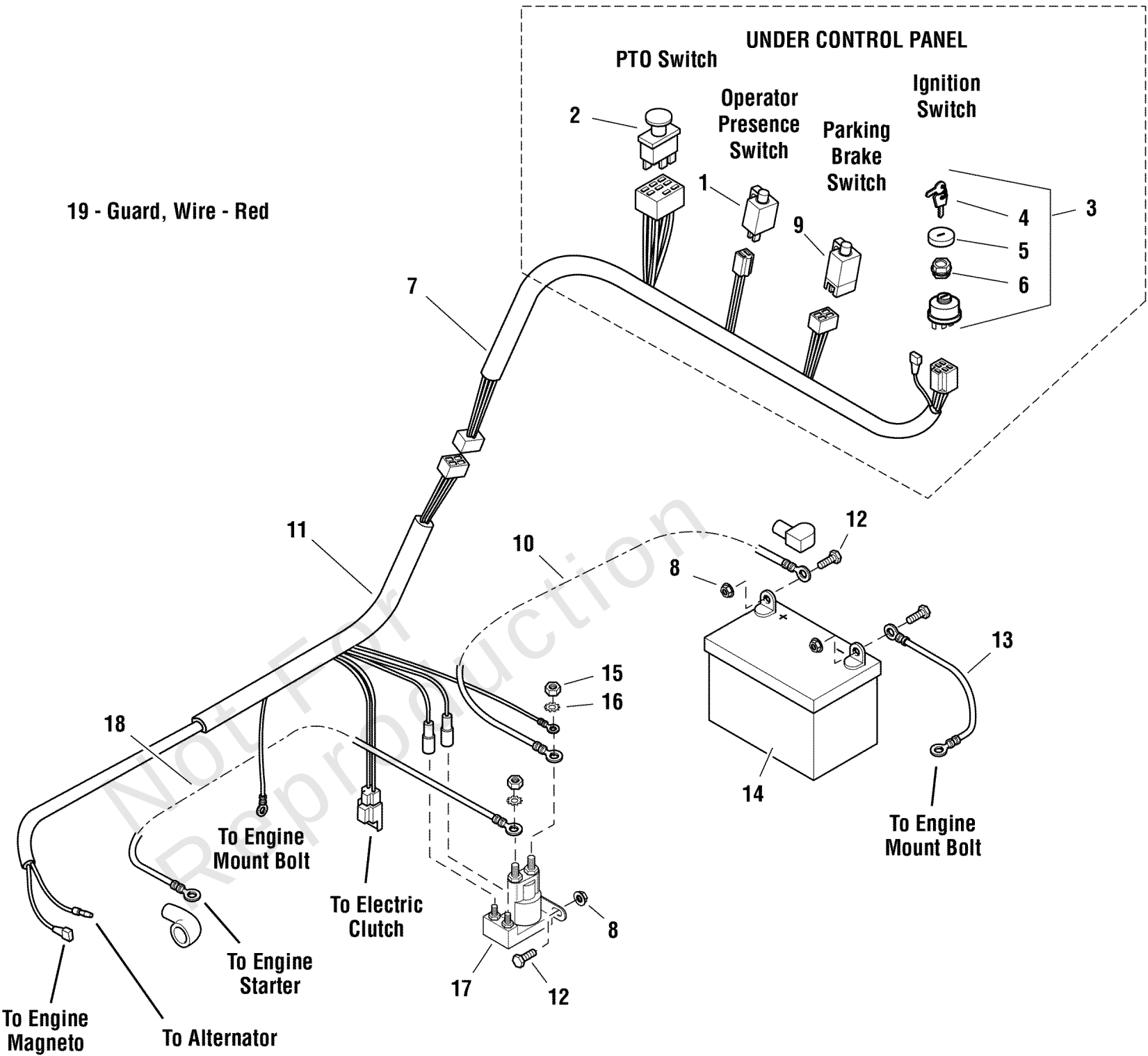
Electrical Group - Electric Start - S/N: 2013136021 - 2013316439

REF NO	PART NO	QTY	DESCRIPTION
1	5021769	1	SWITCH, PLUNGER, N.C. -(OPERATOR PRESENCE)
2	5022180	1	SWITCH, BLADE ENGAGEMENT -(PTO SWITCH)
3	5020927	1	SWITCH, IGNITION, 6 POST -(IGNITION SWITCH)
4	5022789	1	KEY, IGNITION MOLDED SET -(SV)
5	5022790	1	COVER, PLASTIC, SNAP ON -(SV)
6	5022791	1	PLASTIC NUT -(SV)
7	5404464	1	WIRE HARNESS, MAIN HYDROCUT/PACER
8	5025126	4	NUT, 1/4-20 HEX SERR. FLANGE
9	5022438	1	SWITCH, PLUNGER, NO/NO, BOLT-IN -(PARKING BRAKE)
10	5021405	1	BATTERY CABLE, POSITIVE, 22" -(BATTERY TO SOLENOID)
11	5404472	1	WIRE HARNESS, HYDROCUT 1732, JUMPER
12	5025010X6	4	BOLT, 1/4-20 X 3/4
13	5021406	1	BATTERY CABLE, NEG, 22, 1/4-5/16
14	-----	1	BATTERY, WET (BCIU1, 340 CCA)
15	5023216	2	NUT, HEX JAM 5/16-24 -(SV)
16	5023217	2	WASHER, LIGHT LOCK, 5/16 -(SV)
17	1724815	1	SOLENOID-4 POLE 12 VOLT DC (TROMBETTA)
18	5048729	1	BATTERY CABLE, POSITIVE, 35"
19	5061717B	1	GUARD, WIRE - RED -(To keep wires from tires.)

Electrical Group - Electric Start - S/N: 2013316440 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



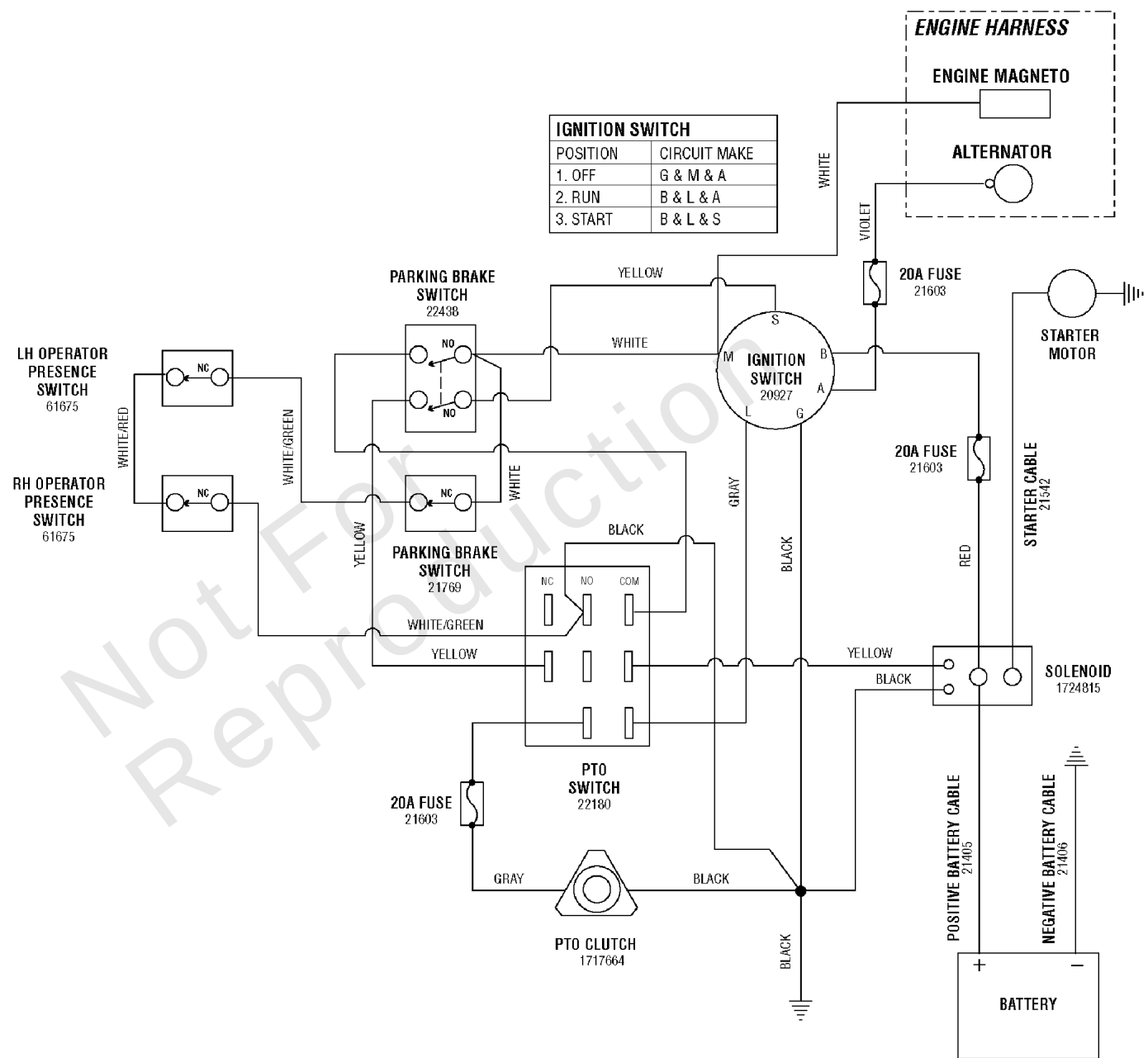
Electrical Group - Electric Start - S/N: 2013316440 & Above

REF NO	PART NO	QTY	DESCRIPTION
1	5021769	1	SWITCH, PLUNGER, N.C. -(OPERATOR PRESENCE)
2	5022180	1	SWITCH, BLADE ENGAGEMENT -(PTO SWITCH)
3	5020927	1	SWITCH, IGNITION, 6 POST -(IGNITION SWITCH)
4	5022789	1	KEY, IGNITION MOLDED SET -(SV)
5	5022790	1	COVER, PLASTIC, SNAP ON -(SV)
6	5022791	1	PLASTIC NUT -(SV)
7	5404588	1	WIRE HARNESS, HANDLE BAR
8	5025126	4	NUT, 1/4-20 HEX SERR. FLANGE
9	1717050	1	SWITCH, PLUNGER, N.O./N.C. -(PARKING BRAKE)
10	5021405	1	BATTERY CABLE, POSITIVE, 22" -(BATTERY TO SOLENOID)
11	5404589	1	WIRE HARNESS, ENGINE DECK, KAWASAKI -(S/N: 2014433878 & Below)
11	5407909	1	WIRE HARNESS, ENGINE DECK, KAWASAKI -(16HP Models)
12	5025010X6	4	BOLT, 1/4-20 X 3/4
13	5021406	1	BATTERY CABLE, NEG, 22, 1/4-5/16 -(S/N: 2014433878 & Below)
13	5045894	1	BATTERY CABLE, NEGATIVE, 35" -(16HP Models)
14	-----	1	BATTERY, WET (BCIU1, 340 CCA)
15	5023216	2	NUT, HEX JAM 5/16-24 -(SV)
16	5023217	2	WASHER, LIGHT LOCK, 5/16 -(SV)
17	1724815	1	SOLENOID-4 POLE 12 VOLT DC (TROMBETTA)
18	5103517	1	BATTERY CABLE, POSITIVE, 30
19	5061717B	1	GUARD, WIRE - RED -(To keep wires away from tires.)

Electrical Schematic - Electric Start - S/N: 2013136020 & Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



Electrical Schematic - Electric Start - S/N: 2013136020 & Below

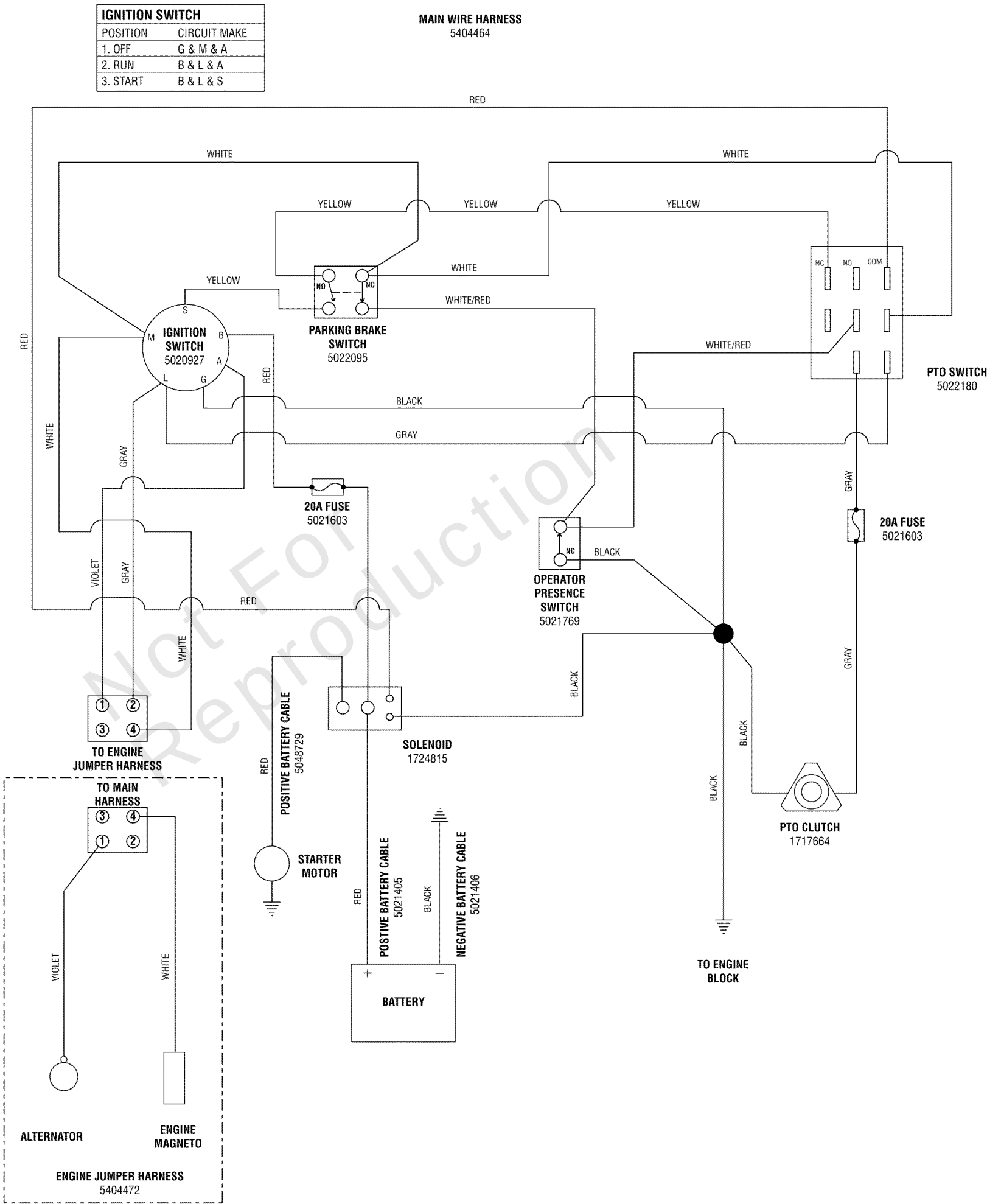
REF NO	PART NO	QTY	DESCRIPTION
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Not For Reproduction

Electrical Schematic - Electric Start - S/N: 2013136021 - 2013316439

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



REF NO	PART NO	QTY	DESCRIPTION
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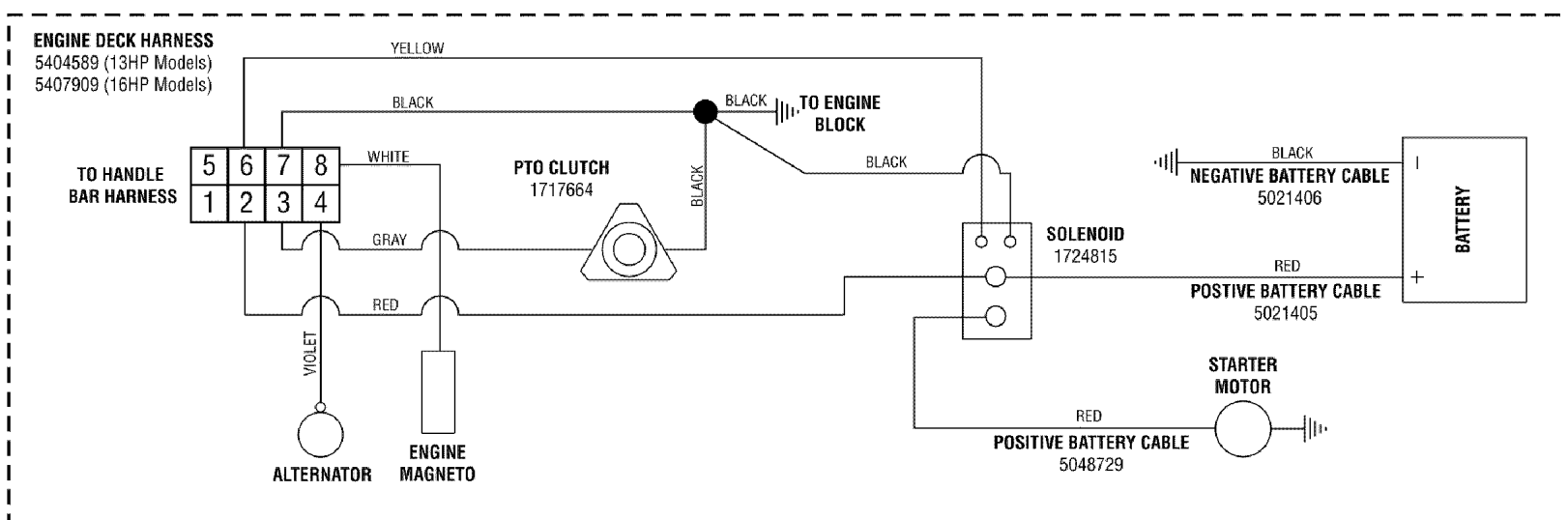
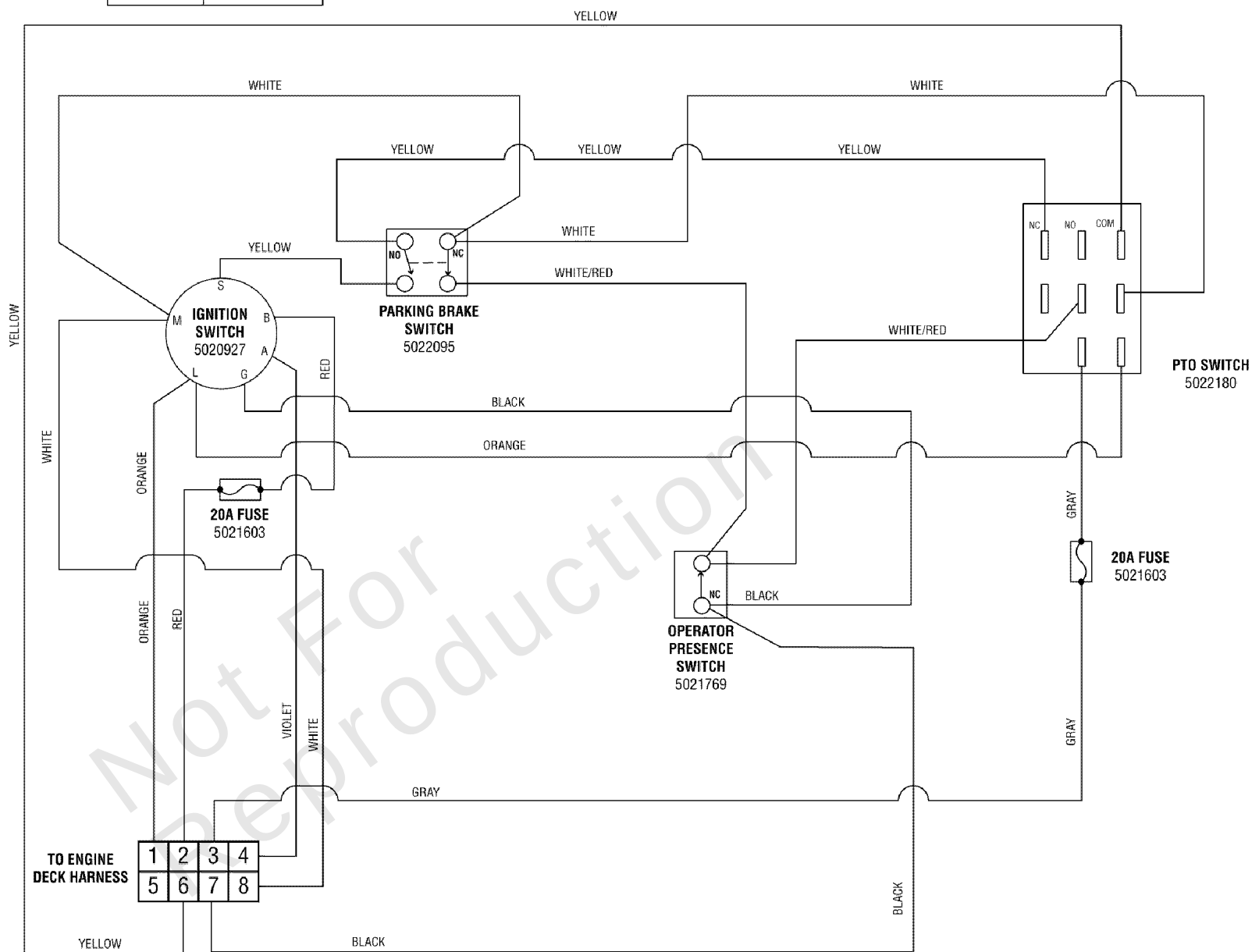
Electrical Schematic - Electric Start - S/N: 2013316440 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111

IGNITION SWITCH	
POSITION	CIRCUIT MAKE
1. OFF	G & M & A
2. RUN	B & L & A
3. START	B & L & S

HANDLE BAR WIRE HARNESS
5404588



Electrical Schematic - Electric Start - S/N: 2013316440 & Above

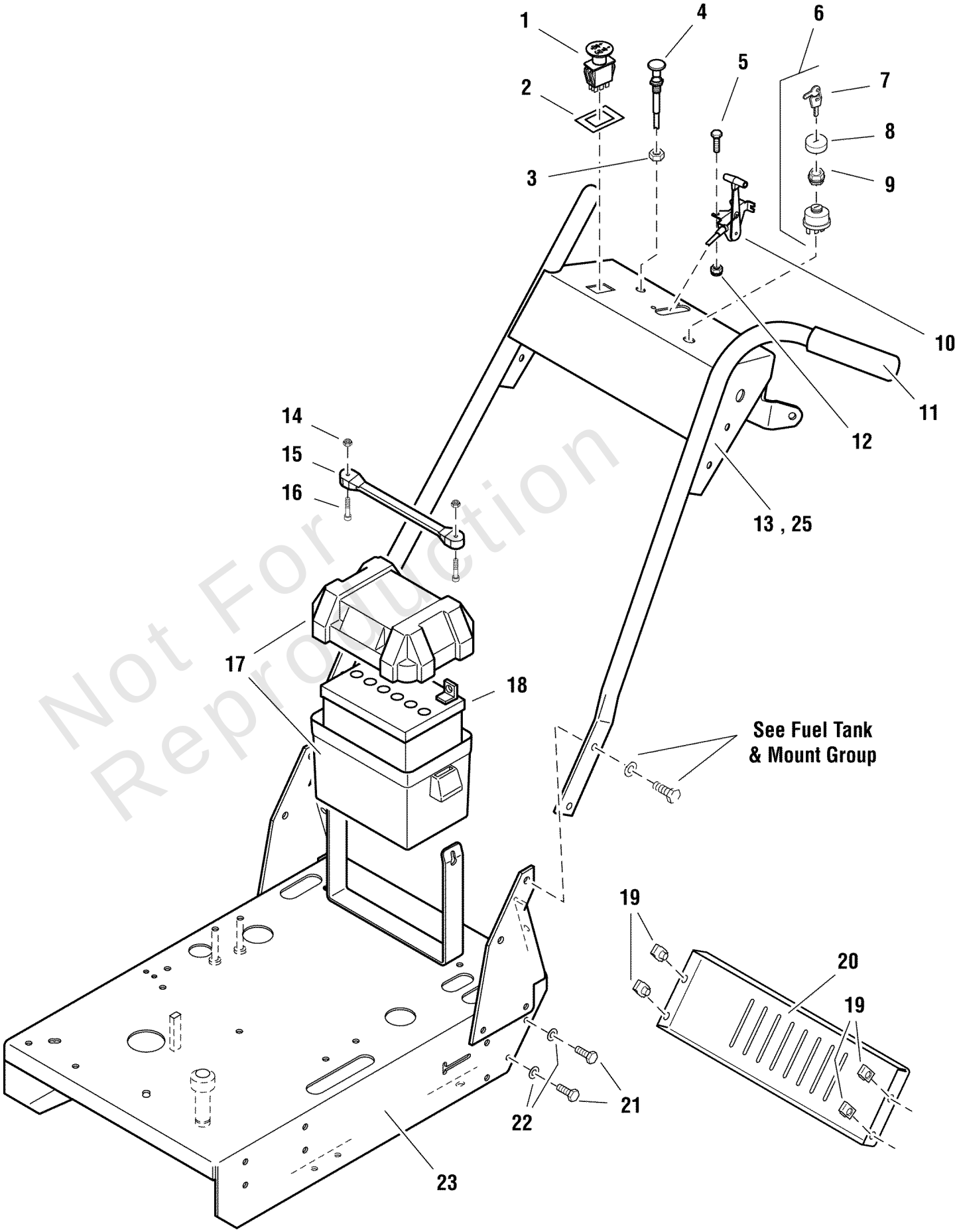
REF NO	PART NO	QTY	DESCRIPTION
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Not For Reproduction

Engine Frame & Handle Bars Group - Electric Start

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



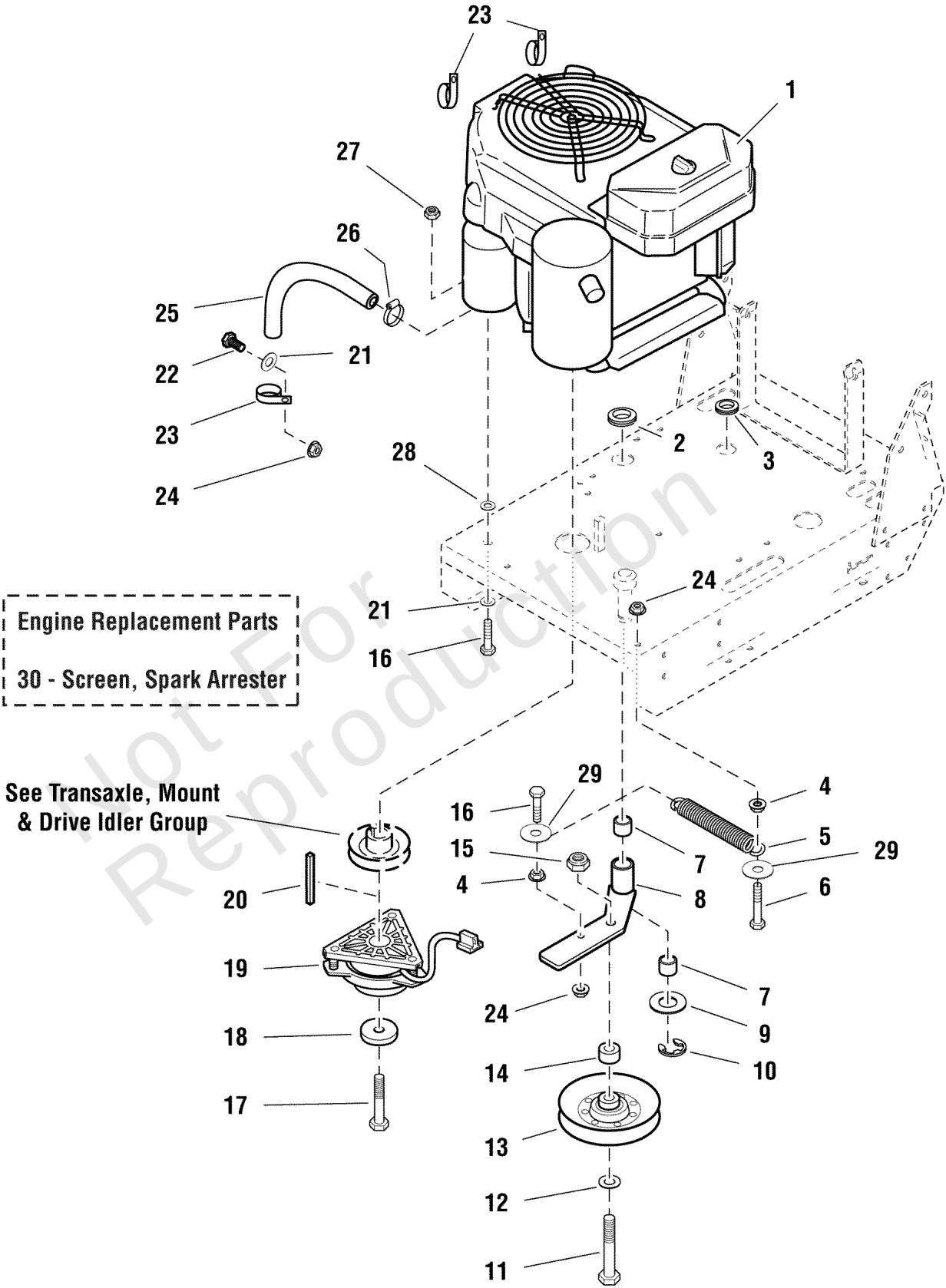
Engine Frame & Handle Bars Group - Electric Start

REF NO	PART NO	QTY	DESCRIPTION
1	5022180	1	SWITCH, BLADE ENGAGEMENT
2	5022222	1	RING, SWITCH RETAINER
3	5025035SM	1	NUT (3/8-24 HEX)
4	5046501	1	CABLE, CHOKE CONTROL, 47"
5	5025010X6	4	BOLT, 1/4-20 X 3/4" GD5 YZ
6	5020927	1	SWITCH, IGNITION, 6 POST -(Includes Ref No. 7 - 9)
7	5022789	1	KEY, IGNITION MOLDED SET
8	5022790	1	COVER, PLASTIC, SNAP ON
9	5022791	1	PLASTIC NUT
10	5047629	1	CABLE, THROTTLE CONTROL, 48"
11	5104659	2	GRIP, FOAM, .940" X 4.62" X .187"
12	5025391	2	NUT, 1/4-20 HEX NYLOCK FLANGE
13	5404467B	1	WELD, HANDLE BAR, TD -(S/N: 2013136021 & Above)
14	5025271	2	NUT, #10-24 HEX NYLON LOCK
15	5021670	1	STRAP, RUBBER
16	5025270	2	SCREW, #10-24 X 1 RS, CZ
17	5100688	1	BATTERY BOX, W/ DRAIN HOLE
18	-----	1	BATTERY
19	5022308	4	BODY CLIP, 5/16-18-7GA MATERIAL
20	5047735B	1	SHIELD, REAR
21	5025011X8	4	BOLT, 5/16-18 X 1" GD5 YZ
22	5025155	4	WASHER, 5/16" SAE
23	5049229B	1	WELD, ENGINE DECK, HC36
24	5025126	2	NUT, 1/4-20 HEX SERR. FLANGE
25	5061279B	1	WELD, HANDLE BAR, TD -(S/N: 2013136020 & Below)

Engine, PTO & Deck Drive Idler Group - 13HP/36" - Electric

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



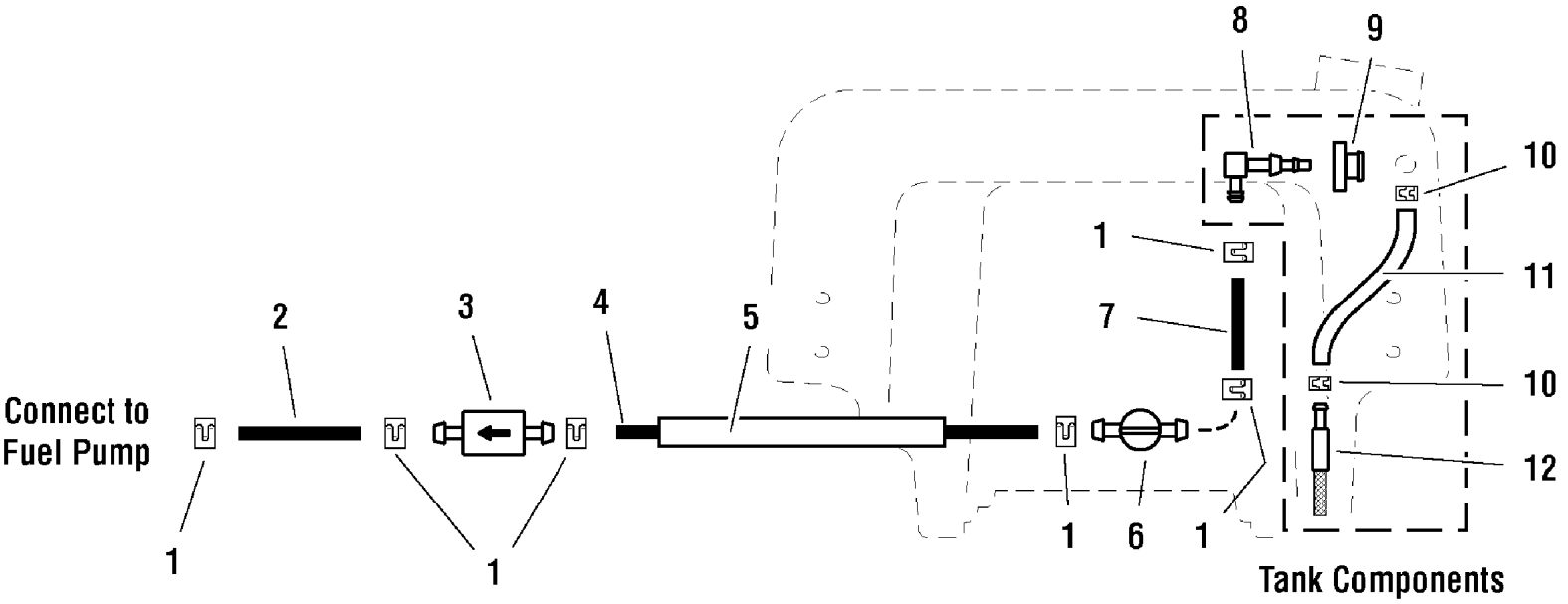
Engine, PTO & Deck Drive Idler Group - 13HP/36" - Electric

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	ENGINE, 13HP KAI ELEC START
2	5021379	1	GROMMET, 7/8
3	5021077	1	GROMMET, 1/2
4	5025139	3	NUT, 5/16-18 HEX SERRATED FLANGE (LARGE)
5	5023400	1	SPRING, EXTENSION
6	5025011X18	1	BOLT, 5/16-18 X 2-1/4" GD5 YZ
7	5020876B	2	BUSHING, BRASS, 3/4 X 1 X 1
8	5049208B	1	WELD, IDLER ARM
9	5025160	1	WASHER, 3/4 SAE
10	5020863	1	C-CLIP, 3/4" SHAFT
11	5025017X22	1	BOLT, 1/2-13 X 2-3/4 GD5 CZ
12	5025158	1	WASHER, 1/2 SAE
13	5021097	1	PULLEY, IDLER, V-NOTCH, 5
14	5044609	1	SPACER, .52 X 1.00 X .38
15	5025056	1	NUT, 1/2-13 HEX NYLON LOCK
16	5025011X12	5	BOLT, 5/16-18 X 1-1/2" GD5 YZ
17	5047632	1	BOLT, CRANKSHAFT, 7/16"X2.75
18	5042132	1	SPACER, .45 X 1.62 X .37
19	1757359	1	CLUTCH, OGURA, 74 ft lbs - 1" -(For model S/N: 2016545302 & Below, key is needed unless replacing clutch)
20	5050407X16	1	KEY, 1/4 SQ X 2
21	5025155	4	WASHER, 5/16" SAE
22	5025011X6	1	BOLT, 5/16-18 X 3/4 GD5
23	5023173	3	CLAMP, HOSE, 1.000 DIA.
24	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE
25	5050857X10P5	1	HOSE, 1/2" PUSH-ON, 10.50"
26	5021392	1	CLAMP, #6 HOSE, STAINLESS
27	5025057	4	NUT, 5/16-18 HEX NYLON LOCK
28	5025188	1	WASHER, 5/16" INT. TOOTH LOCK
29	5025337	2	WASHER, 5/16" USS
30	5101677	1	SCREEN, SPARK ARRESTER-KAWI 13, 17, 19HP

Fuel Supply Hose & Tank Replacement Parts (S/N: 2014719775 & Below)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



Fuel Supply Hose & Tank Replacement Parts (S/N: 2014719775 & Below)

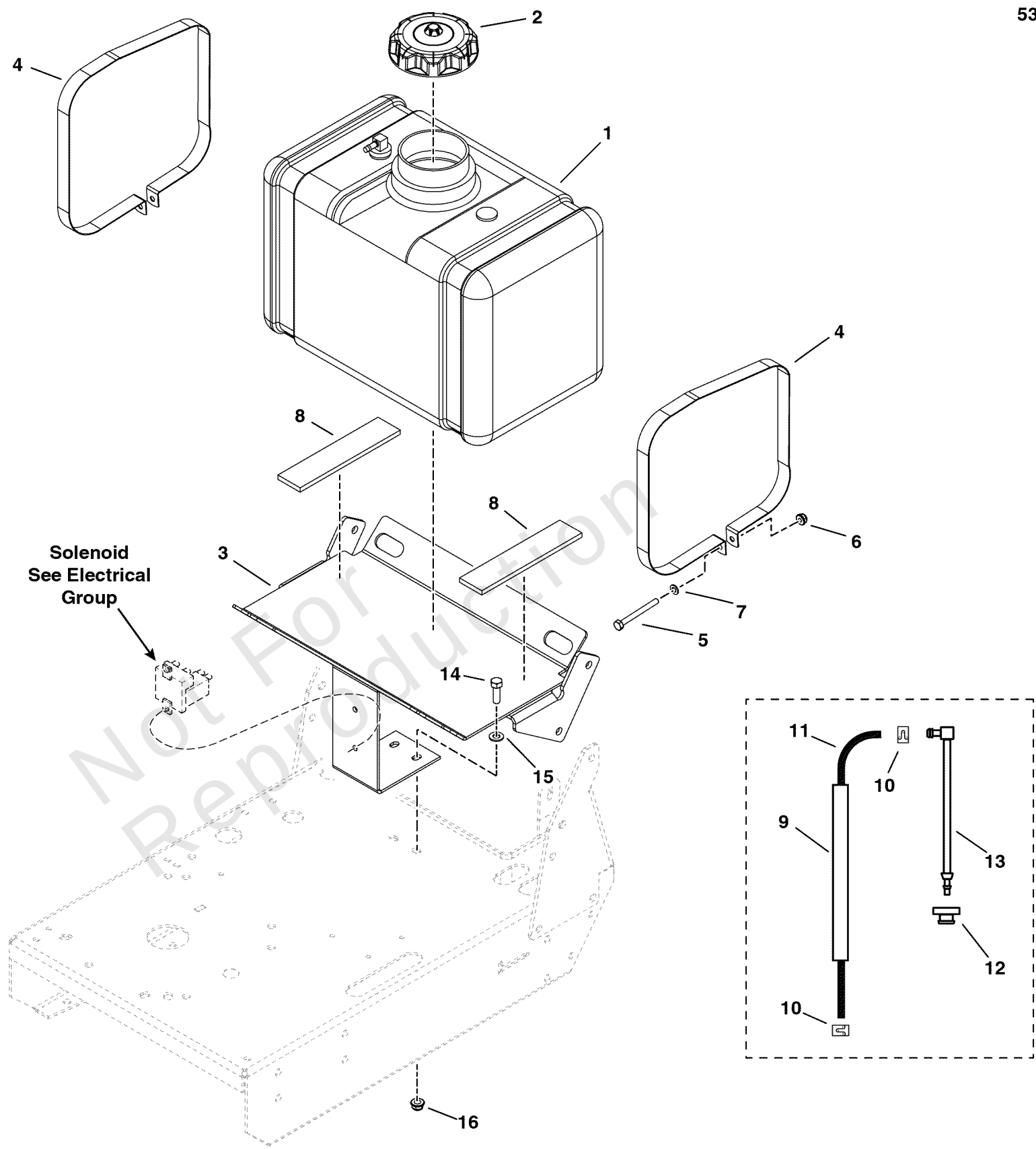
REF NO	PART NO	QTY	DESCRIPTION
1	93807	6	CLAMP, HOSE, EXTERNAL, 1/2 - RED
2	5050831X7	1	HOSE, 1/4" FUEL, 7.00" -(supplied with engine)
3	5021178X3	1	FUEL FILTER -(supplied with engine)
4	5050831X35	1	HOSE, 1/4" FUEL, 35.00"
5	5050833X23	1	WIRE LOOM, 1/2" ID, 23" LONG
6	5021235	1	VALVE, FUEL SHUT OFF
7	5050831X5	1	HOSE, 1/4" FUEL, 5.00"
8	5023061	1	ELBOW FITTING
9	1726400	1	BUSHING-FUEL TANK RED RUBBER
10	-----	2	SEE HOSE ASSEMBLY
11	5101217	1	ASSM, FUEL HOSE, 20" -(Includes clamp & filter)
12	-----	1	SEE HOSE ASSEMBLY

Fuel Tank & Mount Group - S/N: 2014433879 & Above

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111

5300454



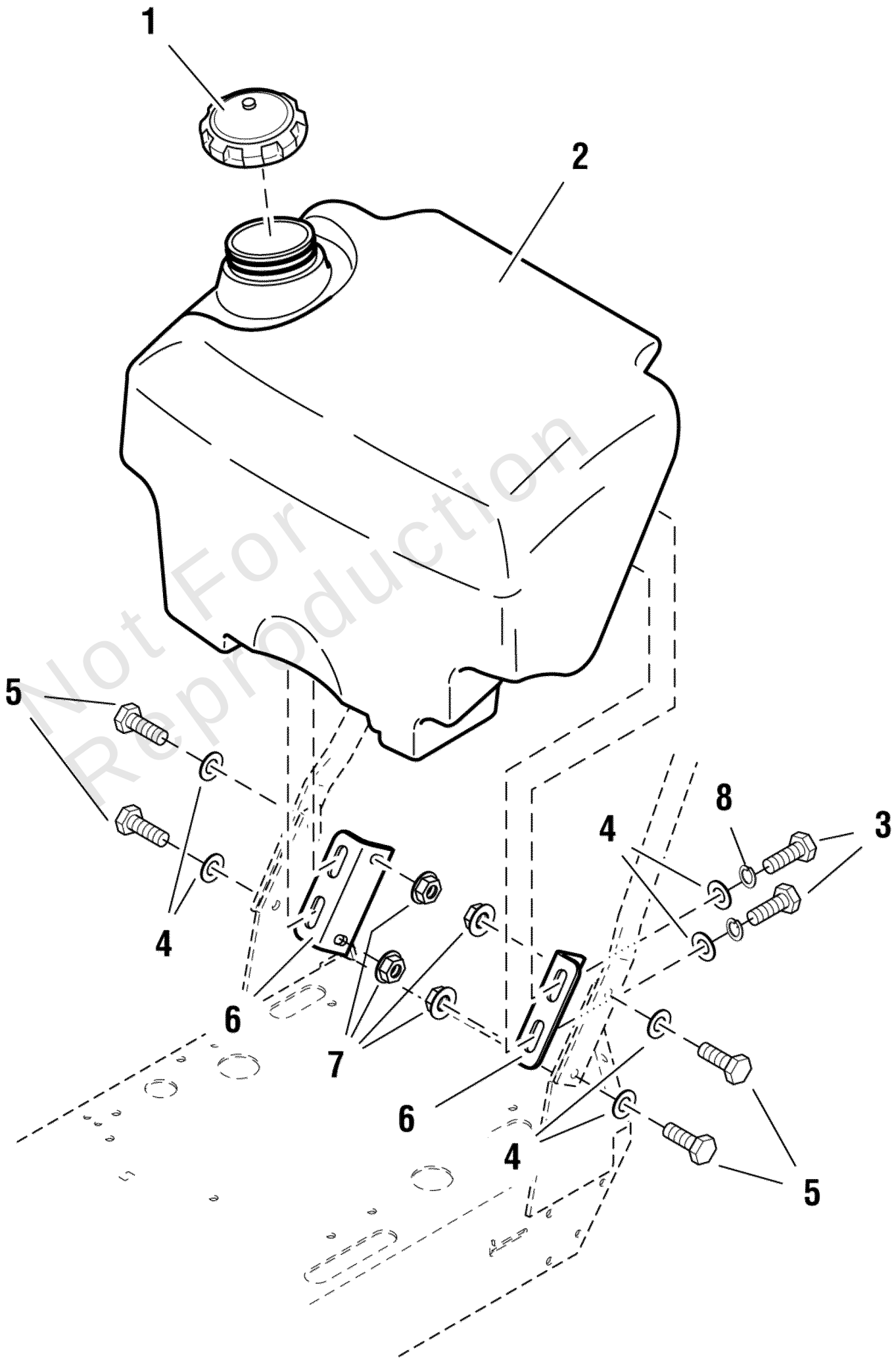
Fuel Tank & Mount Group - S/N: 2014433879 & Above

REF NO	PART NO	QTY	DESCRIPTION
1	5102833	1	TANK, 5 GAL, W DROP TUBE/VENT -(S/N: 2014985585 & Above)
1	5102063	1	TANK, FUEL, PLASTIC, TOP DRAW, NO LOGO -(S/N: 2014433879 - 2014985584)
2	5103005	1	FUEL CAP, 3-1/2", MANAGED VENT OUT, 12"
3	5407443B	1	WELD, TANK MOUNT, HYDROCUT - RED
4	5403445A	2	STRAP, FUEL TANK
5	5025010X10	2	BOLT, 1/4-20 X 1-1/4 GD5 CZ
6	5025391	2	NUT, 1/4-20 HEX NYLOCK FLANGE
7	5025154	2	WASHER, 1/4 SAE
8	5100810	2	PAD, RUBBER MOUNT
9	5050833X20	1	WIRE LOOM, 1/2 ID X 20 IN
10	93807	4	CLAMP, HOSE, EXTERNAL, 1/2 - RED
11	5050831X25	1	HOSE, 1/4" FUEL, 25.00"
12	1726400	1	BUSHING-FUEL TANK RED RUBBER
13	5101261	1	PICKUP TUBE ASM, FUEL TANK, 8.0"
14	5025011X8	2	BOLT, 5/16-18 X 1 GD5 YZ
15	5025155	2	WASHER, 5/16" SAE
16	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE
17	5102833X1	1	GROMMET -(Grommet for fuel tank 5102833)

Fuel Tank & Mount Group (S/N: 2014433878 & Below)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



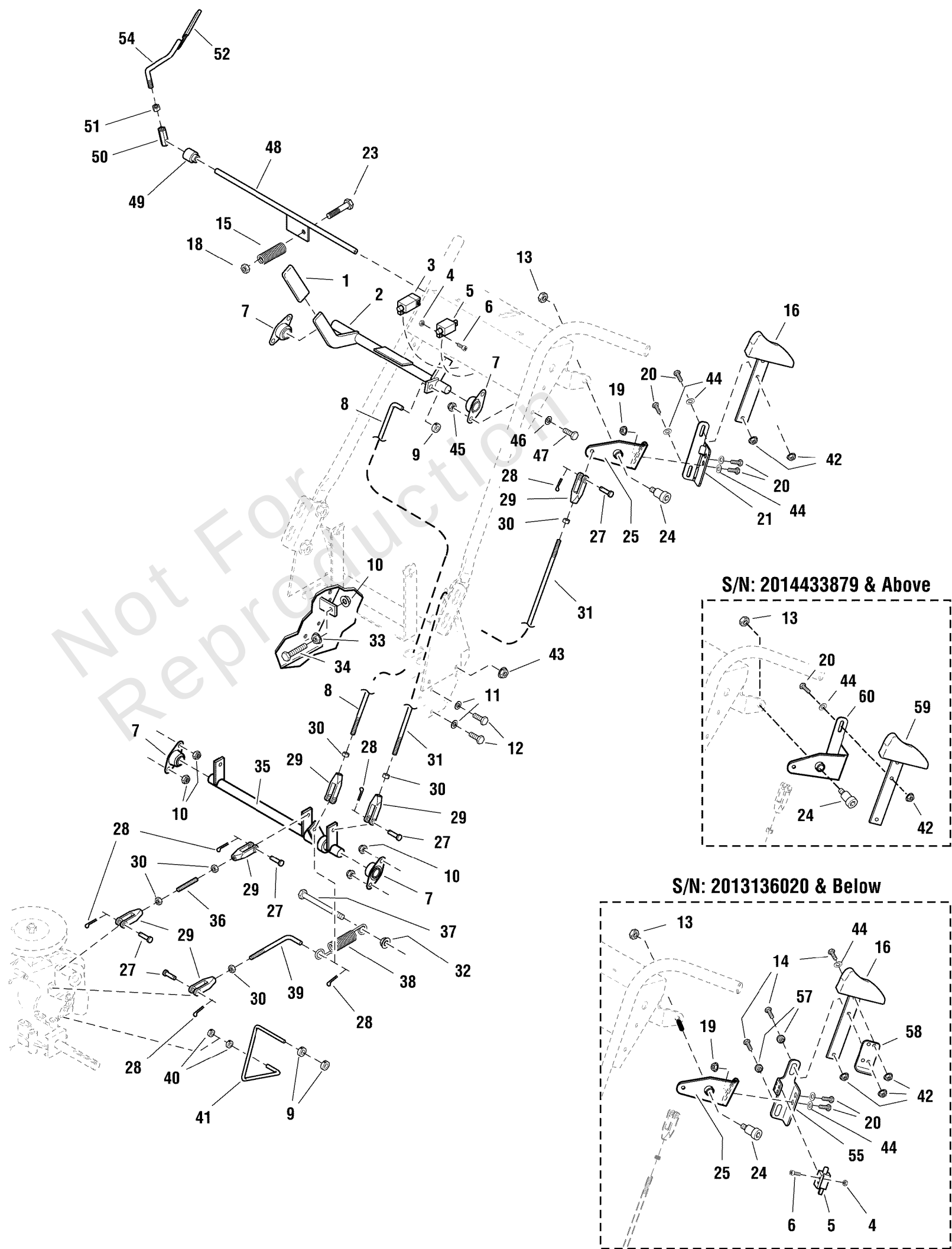
Fuel Tank & Mount Group (S/N: 2014433878 & Below)

REF NO	PART NO	QTY	DESCRIPTION
1	5022158	1	CAP, FUEL TANK, 3-1/2 NECK
2	5048149	1	TANK, FUEL
3	5025013X6	4	BOLT, 3/8-16 X 3/4" GD5 CZ
4	5025156	8	WASHER, 3/8 SAE
5	5025013X10	4	BOLT, 3/8-16 X 1-1/4" GD5 CZ
6	5407443B	1	MOUNT, FUEL TANK
7	5025394	4	NUT, 3/8-16 HEX NYLOCK FLANGE
8	5025171	4	WASHER, 3/8" SPLIT LOCK

Motion Control, Parking Brake & Operator Presence Group - Electric Start

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



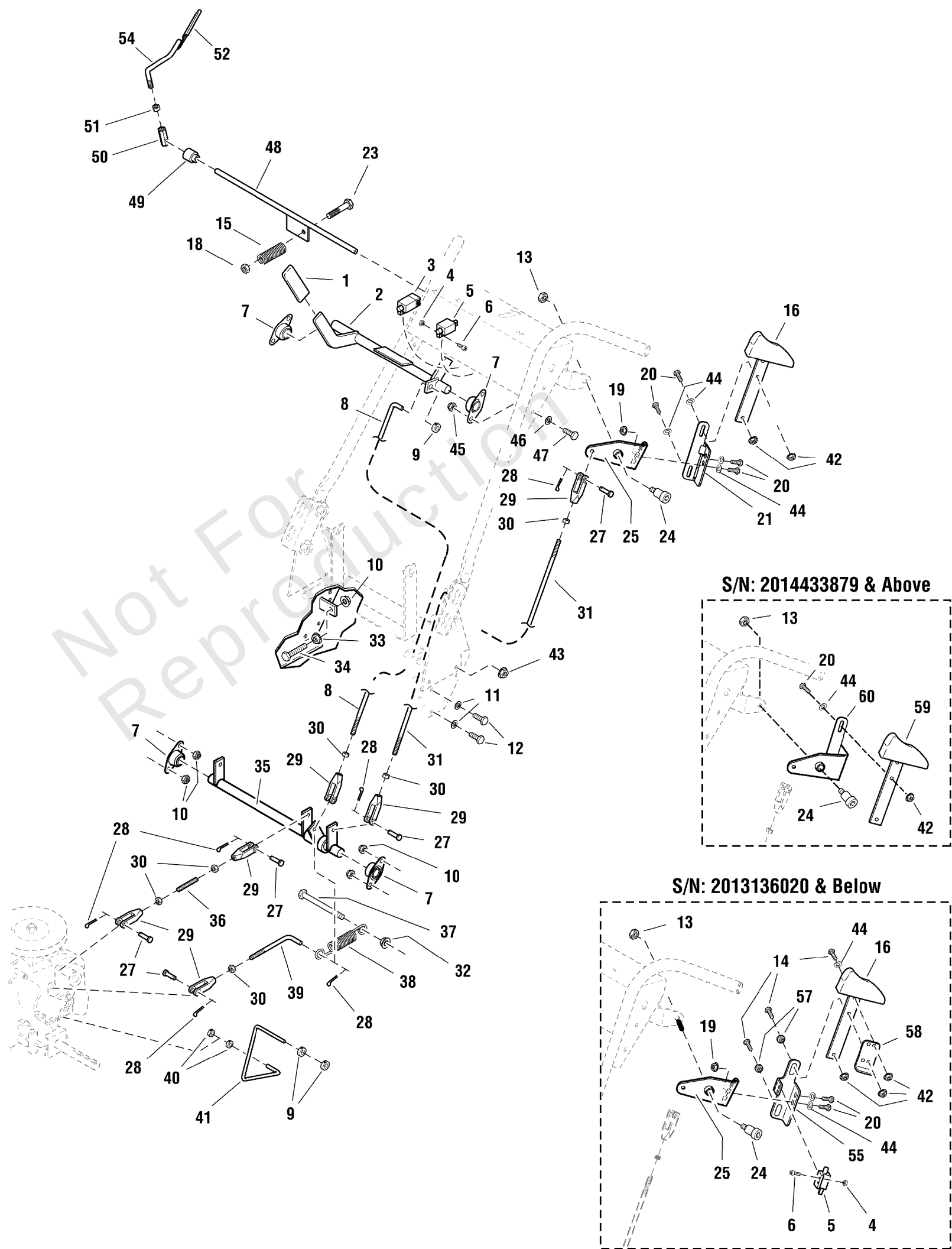
Motion Control, Parking Brake & Operator Presence Group - Electric Start

REF NO	PART NO	QTY	DESCRIPTION
1	5025510	1	GRIP, FOAM, 1/4 X 1 X 4.1
2	5061278B	1	WELD, BRAKE CONTROL
3	5022438	1	SWITCH, Plunger, NO/NO
4	5025029	6	NUT, #10-24 HEX -(S/N: 2013136020 & Below use Qty.8)
5	5021769	1	SWITCH, PLUNGER, N.C. -(S/N: 2013136020 & Below use Qty.3)
6	5025179X4	6	SCREW, #10-24 X 1/2" ROUND PHILLIPS -(S/N: 2013136020 & Below use Qty.8)
7	5021098	4	BEARING, BRONZE FLANGE, 3/4
8	5061495	1	ROD, PARKING BRAKE LINKAGE
9	5020047	3	COLLAR, 5/16" SET
10	5025392	5	NUT, 5/16-18 HEX NYLOCK FLANGE
11	5025155	4	WASHER, 5/16" SAE
12	5025011X6	8	BOLT, 5/16-18 X 3/4 GD5
13	5025046	2	NUT, 3/8-16 HEX TOP LOCK
14	5025010X8	2	BOLT, 1/4-20 X 1" GD5 CZ -(S/N: 2013136020 & Below)
15	5020637	1	SPRING, COMPRESSION -(S/N: 2013136021 & Above)
16	5061691	1	HANDLE, RUBBER HYDROCUT - LH -(S/N: 2014433878 & Below)
17	5061702	1	HANDLE, RUBBER HYDROCUT - RH -(S/N: 2014433878 & Below - Not Shown)
18	5025391	1	NUT, 1/4-20 HEX NYLOCK FLANGE -(S/N: 2013136021 & Above)
19	5025126	4	NUT, 1/4-20 HEX SERR. FLANGE
20	5025010X6	8	BOLT, 1/4-20 X 3/4" GD5 YZ
21	5404461A	1	MOUNT, MOTION CONT, LH -(S/N: 2013136021 - 2014433878)
22	5404462A	1	MOUNT, MOTION CONT, RH -(S/N: 2013136021 - 2014433878 - Not Shown)
23	5025010X24	1	BOLT, 1/4-20 X 3, GD5 -(S/N: 2013136021 & Above)
24	5025223	2	BOLT, 3/8-16 X 1.0", 1/2" SHOULDER
25	5061683B	1	WELD, ARM CONTROL, LH -(S/N: 2014433878 & Below)
26	5061685B	1	WELD, ARM CONTROL, RH -(13HP Models - Not Shown)
27	5025213X8	7	PIN, CLEVIS, 5/16" X 1
28	80002736	7	PIN, 3/32 X 0.750, COT, ZINC/CLEAR
29	5023323	8	CLEVIS, 5/16-24, STEEL, CLEAR ZINC
30	5025033	8	NUT, 5/16-24 HEX
31	5047642	2	ROD, THUMB CONTROL LINKAGE
32	5025128	1	NUT, 3/8-16 HEX SERRATED FLANGE
33	5025139	1	NUT, 5/16-18 HEX SERRATED FLANGE (LARGE)
34	5023157	1	BOLT, 5/16-18 X 1 1/2" FLANGE
35	5047697B	1	WELD, CONTROL SHAFT
36	5047740	1	LINK, STUD
37	5025013X32	1	BOLT, 3/8-16 X 4" GD5 CZ
38	5049352	1	SPRING, EXT, 3.875 X .70 LOOP
39	5048328	1	LINK, PARKING BRAKE LOWER
40	5022481	2	COLLAR, 1/4" SET
41	5047732	1	LEVER, DUMP VALVE
42	5025391	4	NUT, 1/4-20 HEX NYLOCK FLANGE

Motion Control, Parking Brake & Operator Presence Group - Electric Start

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



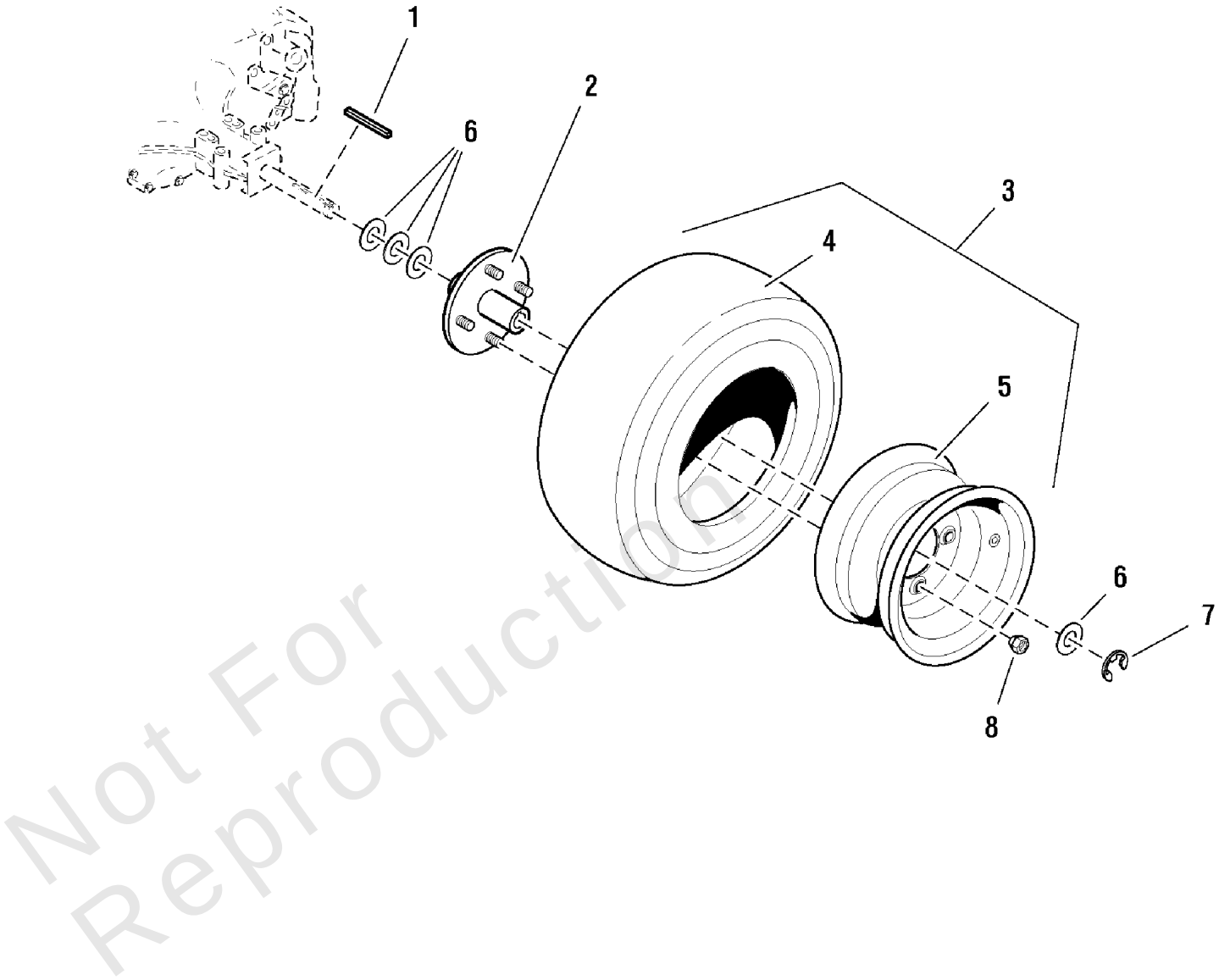
Motion Control, Parking Brake & Operator Presence Group - Electric Start

REF NO	PART NO	QTY	DESCRIPTION
43	5025394	1	NUT, 3/8-16 HEX NYLOCK FLANGE
44	5025154	8	WASHER, 1/4 SAE
45	5025394	4	NUT, 3/8"-16 HEX NYLOCK FLANGE
46	5025156	4	WASHER, 3/8 SAE
47	5025013X6	4	BOLT, 3/8-16 X 3/4" GD5 CZ
48	5101679	1	ROD, OPC SWITCH, PACER -(S/N: 2013136021 & Above)
49	5045943	2	SPACER, SHOULDER -(S/N: 2013136021 & Above)
50	5043417	2	ADJUSTER, LINKAGE -(S/N: 2013136021 & Above)
51	5025034	2	NUT, 3/8-16 HEX -(S/N: 2013136021 & Above)
52	5021490	2	GRIP, VINYL, 1/2 X 4 -(S/N: 2013136021 & Above)
53	5449175B	1	WELD, OP PRESENCE, LH -(S/N: 2013136021 & Above - Not Shown)
54	5449176B	1	WELD, OP PRESENCE, RH -(S/N: 2013136021 & Above)
55	5061689	1	MOUNT, MOTION CONT, LH -(S/N: 2013136020 & Below)
56	5061692	1	MOUNT, MOTION CONT, RH -(S/N: 2013136020 & Below - Not Shown)
57	5061693	4	SPACER, SLIDE -(S/N: 2013136020 & Below)
58	5061713B	2	ACTUATOR, SWITCH -(S/N: 2013136020 & Below)
59	5103023	1	HANDLE, RUBBER, HYDROCUT - LH -(S/N: 2014433879 & Above)
60	5407623B	1	WELD, ARM CONTROL - LH - RED -(S/N: 2014433879 & Above)
61	5103024	1	HANDLE, RUBBER, HYDROCUT - RH -(S/N: 2014433879 & Above - Not Shown)
62	5407622B	1	WELD, ARM CONTROL - RH - RED -(S/N: 2014433879 & Above - Not Shown)

Tire & Wheel Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



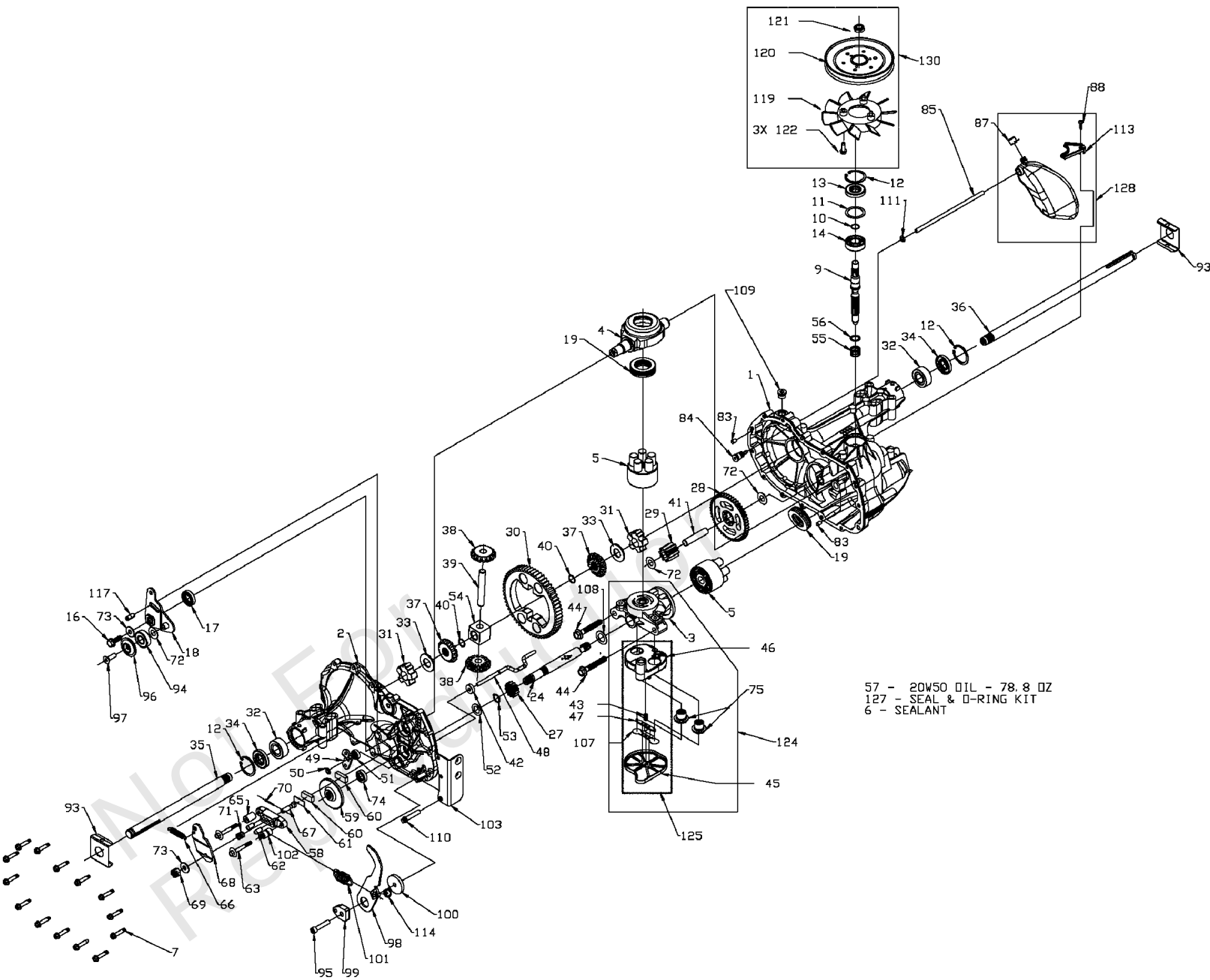
Tire & Wheel Group

REF NO	PART NO	QTY	DESCRIPTION
1	5048409	2	KEY, 3/16" SQ. X 2-1/2
2	5048417	2	DRIVE HUB -(Includes Ref No. 8)
3	-----	2	NLA - Must order 5023104X1 and 5023104X2 individually
4	5023104X2	2	TIRE, 16. x 6.5 x 8 (SV)
5	5023104X1	2	WHEEL ASSEMBLY, 8 x 5.38 (SV)
6	5025520X3	8	SHIM
7	5020863	2	C-CLIP
8	5020601	8	LUG NUT, 1/2-20

Transaxle - SERVICE PARTS

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



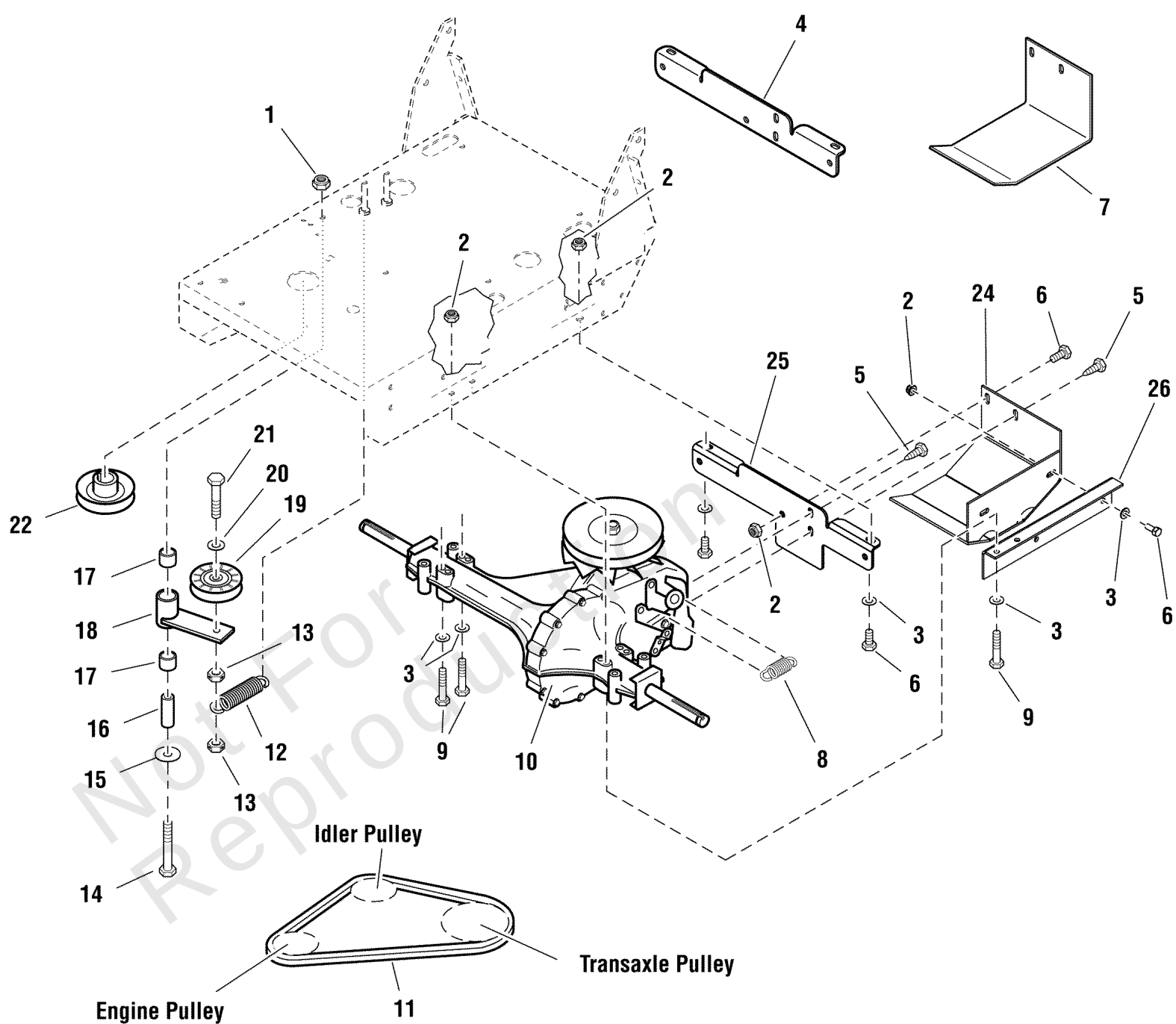
Transaxle - SERVICE PARTS

REF NO	PART NO	QTY	DESCRIPTION
2	5022905X24	1	ASSEMBLY, SIDE HOUSING
6	5022905X1	10.5 oz.	SEALANT
9	5022905X2	1	SHAFT, INPUT
10	5022905X3	1	RING - RETAINING
11	5022905X4	1	SPACER
12	5022905X5	3	RING - RETAINING
13	5022905X16	1	SEAL, Lip, .67 x 1.58 x .276
14	5022905X6	1	BALL BEARING
17	5022905X18	1	SEAL, LIP, 18 X 32 X 7
32	5022905X7	2	OUTBOARD SLEEVE BEARING
34	5022905X17	2	LIP SEAL, Axle Seal
35	5022905X8	1	AXLE SHAFT - RH
36	5022905X9	1	AXLE SHAFT - LH
51	5022905X19	1	SEAL, LIP, .741 X .250 X .250 TC
55	5022905X10	1	SPRING - HELICAL COMPRESSION
56	5022905X11	1	WASHER
57	5022905X12	78.8 oz.	20W-50 OIL
60	5022905X60	2	PAD,# 44132, BRAKE HC32
67	5022905X22	1	BOLT, SQ. HD. 5/16-24 RIBBED
74	5022905X20	1	KIT, SEAL
101	5022967	1	HYDRO RETURN SPRING
103	5022905X21	1	BRACKET, TORQUE
119	5022905X13	1	FAN, 6", 10 BLADE
128	5022905X14	1	EXPANSION TANK KIT
130	5022905X15	1	FAN/PULLEY KIT -(Includes Ref. No. 119)

Transaxle & Mount Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900111



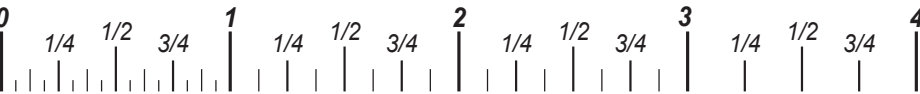
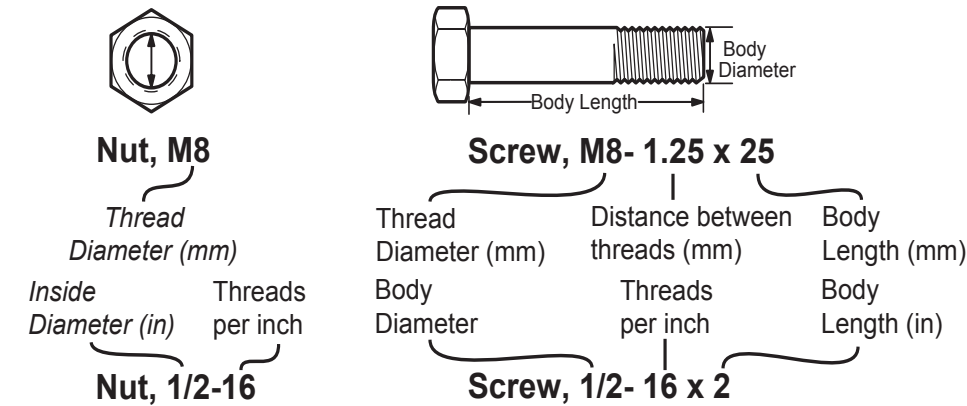
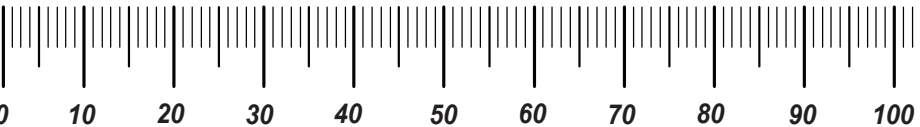
Transaxle & Mount Group

REF NO	PART NO	QTY	DESCRIPTION
1	5025394	1	NUT, 3/8-16 HEX NYLOCK FLANGE
2	5025392	9	NUT, 5/16-18 HEX NYLOCK FLANGE
3	5025155	9	WASHER, 5/16" SAE
4	5047582B	1	BRACE, TRANSAXLE -(S/N: 2016680389 & Below)
5	5025059X6	2	BOLT, 5/16-18 X 3/4", SELF-TAPPING
6	5025011X8	5	BOLT, 5/16-18 X 1" GD5 YZ
7	5411901B	1	SKID, PLATE, HC - RED -(S/N: 2016680389 & Below)
8	5022967	1	HYDRO RETURN SPRING (SV)
9	5025011X24	4	BOLT, 5/16-18 X 3" GD5 YZ
10	5022905	1	TRANSAXLE, HYDROSTATIC -(Models with 13hp engine and 32" deck).
10	5103121	1	TRANSAXLE, HYDROSTATIC -(All other models).
11	5023058	1	BELT,# 46-4631
12	5020807	1	SPRING, EXTENSION
13	5025100	2	NUT, 3/8-16 HEX SIDE LOCK
14	5025013X24	1	BOLT, 3/8-16 X 3" GD5 CZ
15	5025165	1	WASHER, 3/8" FENDER
16	5047716	1	SPACER, .41 X .75 X 2.06
17	5020876B	2	BUSHING, BRASS, 3/4 X 1 X 1
18	5047717B	1	PIVOT ARM, WELDMENT
19	5043627	1	PULLEY, IDLER ASSEMBLY
20	5025156	1	WASHER, 3/8 SAE
21	5025013X16	1	BOLT, 3/8-16 X 2, GD5, CZ
22	5047914	1	PULLEY, DRIVE, 4.50 OD X 1.000 ID (SV)
23	5103136	1	FAN / PULLEY KIT, TRANSAXLE -(S/N:2015250408 & Above - Not Shown)
24	5412054B	1	WELD, CONTROL GUARD - RED -(S/N: 2016680390 & Above)
25	5411935B	1	PLATE, TRANS BRACE, HC - RED -(S/N: 2016680390 & Above)
26	5412053B	1	PLATE, CONTROL GUARD GUSSET - RED -(S/N: 2016680390 & Above)

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).

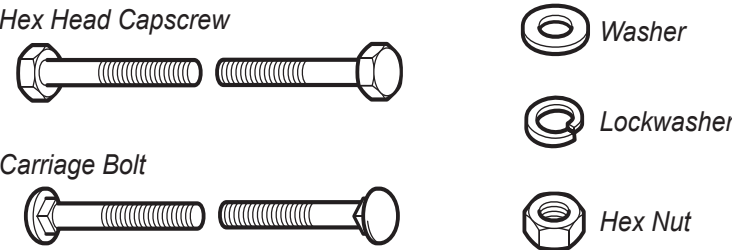
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

