



Parts Manual

Mfg. No: 5900533
Procut S Series (H2224KAVFS)

5900632 - 61" Side Discharge Mower Deck (R61).....

Not For
InReproduction

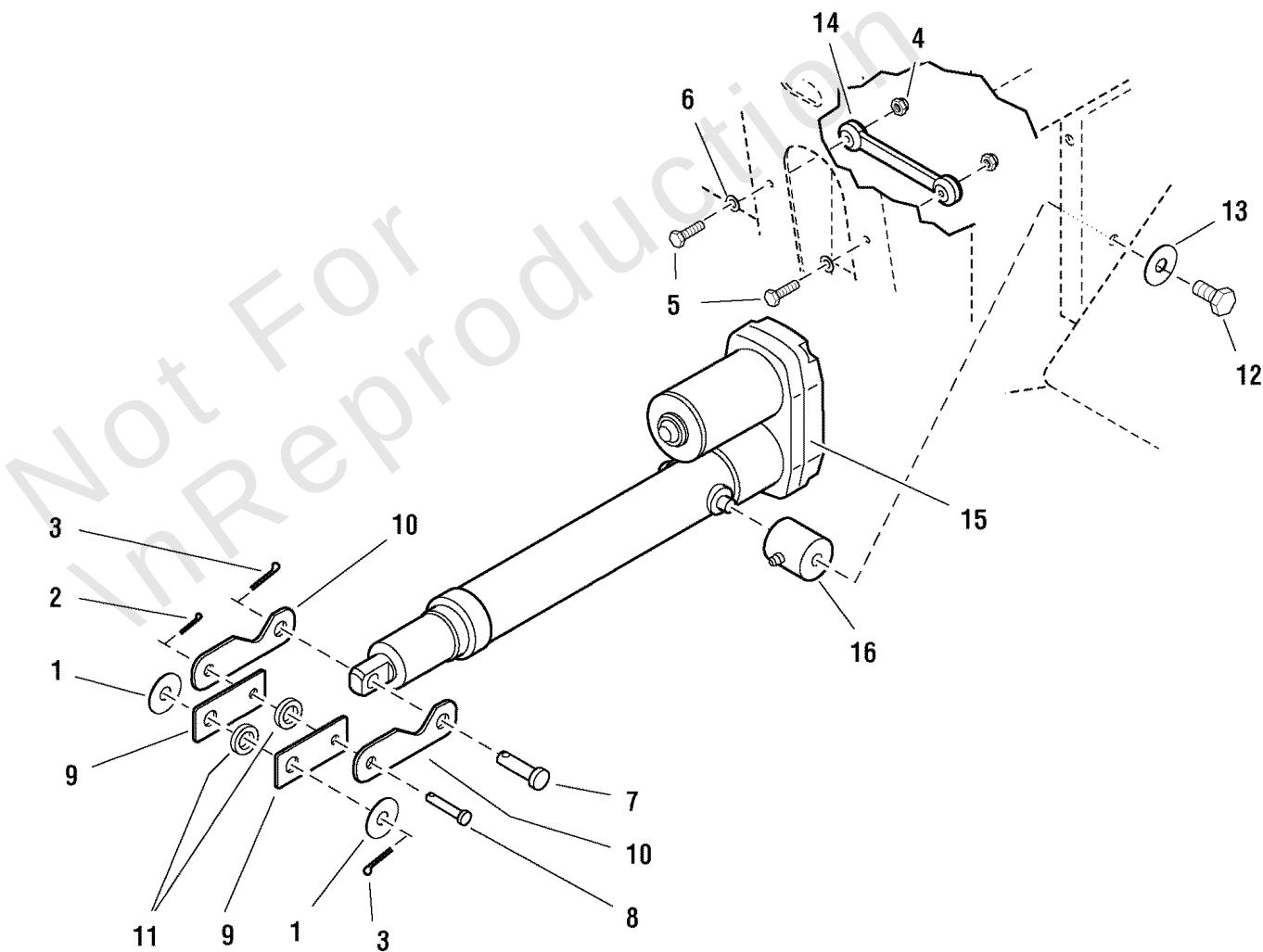
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Actuator Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900533

5300544



Actuator Group

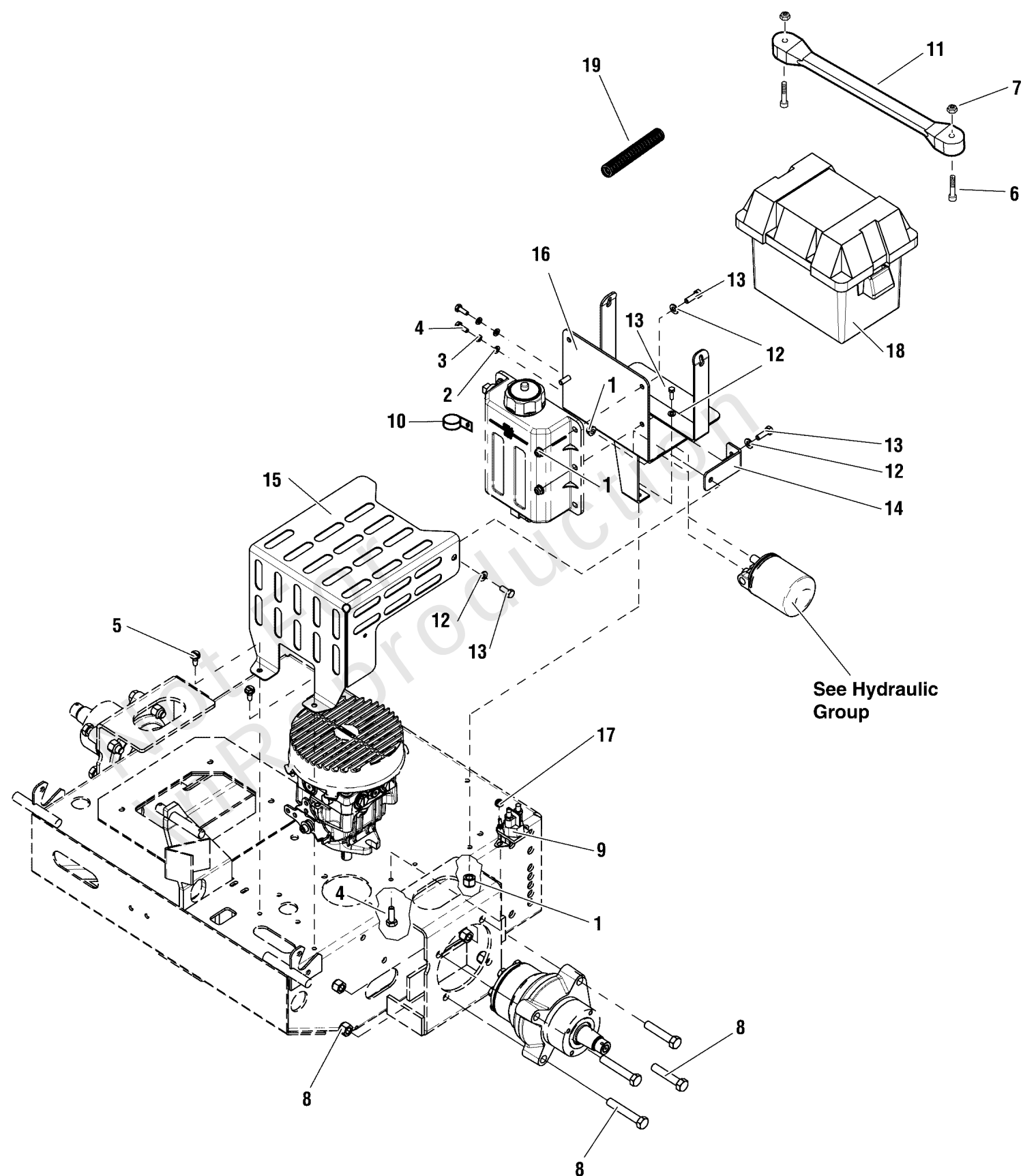
REF NO	PART NO	QTY	DESCRIPTION
1	5025281	2	WASHER, 5/8" SAE
2	80002736	1	PIN, 3/32 X 0.750, COT, ZINC/CLEAR
3	5025203X10	2	PIN, COTTER, 1/8" X 1-1/4
4	5025391	2	NUT, 1/4-20 HEX NYLOCK FLANGE
5	5025010X10	2	BOLT, 1/4-20 X 1-1/4", GD5
6	5025154	2	WASHER, 1/4 SAE
7	5025232X10	1	PIN, CLEVIS, 1/2" X 1-1/4
8	5025214X9	1	PIN, CLEVIS, 3/8" X 1-1/8
9	5044618	2	LINK, ACTUATOR
10	5043677	2	LINK, ACTUATOR LOWER
11	5041477	2	SPACER, .63 X 1.06 X .23
12	5025013X8	2	BOLT, 3/8-16 X 1" GD5 CZ
13	5025171	2	WASHER, 3/8" SPLIT LOCK
14	5020959	1	6" RUBBER STRAP
15	5100713	1	ELECTRIC ACTUATOR ASM.
16	5044082	2	MOUNT, ACTUATOR ASSEMBLY

Battery Compartment Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900533

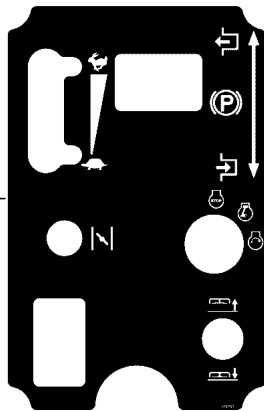
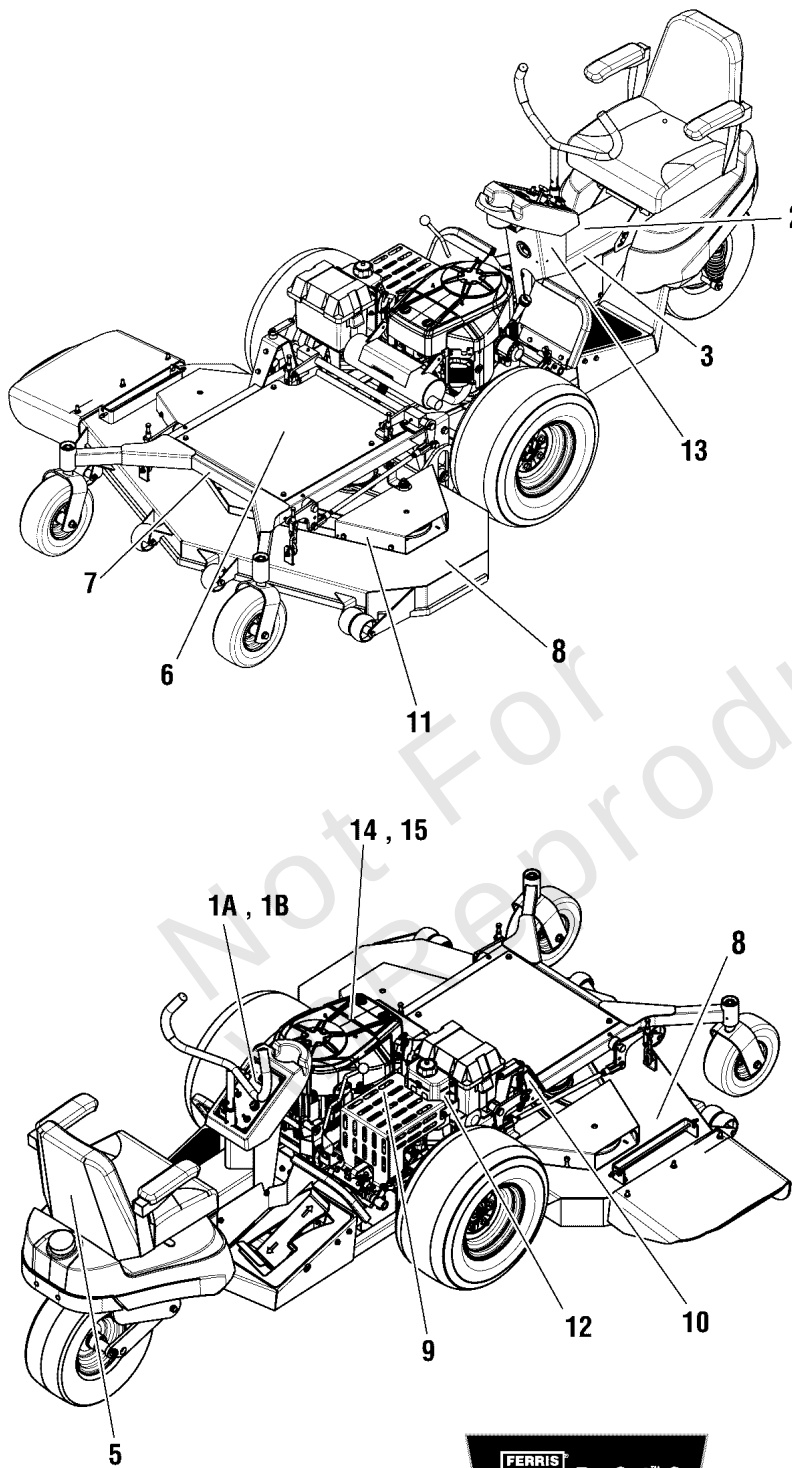
5300820



Battery Compartment Group

REF NO	PART NO	QTY	DESCRIPTION
1	5025392	7	NUT, 5/16-18 HEX NYLOCK FLANGE
2	5025154	2	WASHER, 1/4 SAE
3	5025169	2	WASHER, 1/4" LOCK
4	5025010X6	4	BOLT, 1/4-20 X 3/4" GD5 YZ
5	5025059X6	2	BOLT, 5/16-18 X 3/4", SELF-TAPPING
6	5025270	2	SCREW, #10-24 X 1" RS
7	5025271	2	NUT, #10-24 HEX NYLON LOCK
8	-----	-	Refer to Hydraulic Components Service Group
9	1724815	1	SOLENOID-4 POLE 12 VOLT DC (TROMBETTA)
10	5023173	1	CLAMP, HOSE, 1.000 DIA
11	5021670	1	STRAP, RUBBER
12	5025155	4	WASHER, 5/16" SAE
13	5025011X8	7	BOLT, 5/16-18 X 1" GD5 YZ
14	5402505B	1	BRACKET, MUFFLER - RED
15	5402398B	1	PLATE, PUMP COVER - RED
16	5401852B	1	WELD, BATTERY BOX & RES. MOUNT - RED
17	5025391	2	NUT, 1/4-20 HEX NYLOCK FLANGE
18	5100688	1	BATTERY BOX, W/ DRAIN HOLE
19	5050833X10	1	WIRE LOOM, 1/2 ID X 10 IN -(Installed on positive battery cable that runs from battery to starter)

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WARNING

Avoid serious injury or death

- Read operator's manual before using this product.
- Do NOT operate this machine unless you are trained.
- Know the location and function of all controls.
- Keep safety devices (guards, shields, switches, etc.) in place and working.
- Remove objects that could be thrown by the blade.
- Be sure blades and engine are stopped before placing hands or feet near blades.
- When leaving machine, shut off, remove key and set parking brake.

DANGER

Amputation hazard

Rotating blades cut off arms and legs.

- Stop the mower when children or others are near.
- Do not carry riders (especially children) even with the blades off. They may fall off or return for another ride when you are not expecting it.
- Look down and behind before and while backing.

Loss of control and roll-over hazard.

Operating on slopes can be hazardous and cause loss of control and roll-overs.

- Avoid sudden turns or rapid speed changes.
- Reduce speed and use extreme caution on slopes.
- Go up and down slopes, NOT across.
- Do not operate on slopes over 10 degrees.
- If machine stops while going uphill, stop the blades and back down slowly.

Water, retaining walls and drop-off hazards

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

- Do NOT operate near water, retaining walls or drop-offs.
- Give yourself a minimum of two mower widths of clearance around these hazards.

WARNING

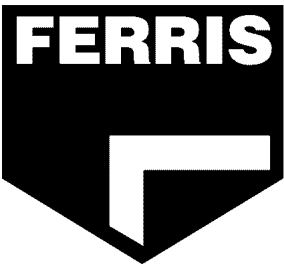
Fire Hazard

Gasoline is flammable. Debris is combustible.

- Allow engine to cool for at least 3 minutes before refueling.
- Keep unit cleaned of debris.

This equipment may create sparks that can start fires around dry vegetation. A spark arrester may be required. Contact local fire agencies for regulations relating to fire prevention requirements.

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



ProCut S

DANGER

Amputation and thrown objects hazard

- Keep hands and feet away from deck.
- Do not operate mower unless discharge chute or entire grass catcher is in its proper place.

Ignition System (Gasoline Models)

This spark ignition system complies with Canadian standard ICES-302

ACN 608 576 608

FERRIS ProCut™ S

POWERED BY:
BRIGGS & STRATTON
EXTENDED LIFE SERIES™

725cc **26.0**
gross HP (at 3600 rpm)

Advanced Decarb Management System with Control Blade for Fuel

Control Blade and Valve and a Supercharged Crankshaft Bearing

POWERED BY

BRIGGS & STRATTON

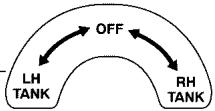
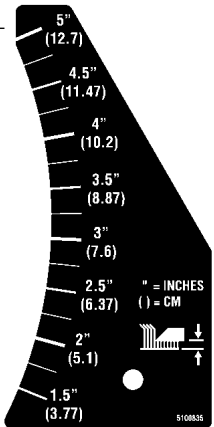
COMMERCIAL POWER

61"

HYDRAULIC OIL RESERVOIR

USE EITHER:
MOBIL 1™
15W-50 OIL
- OR -
CASTROL SYNTEC™
5W-50 OIL

DO NOT USE CONVENTIONAL OILS!



Decal Group - Brand, Safety and Operation

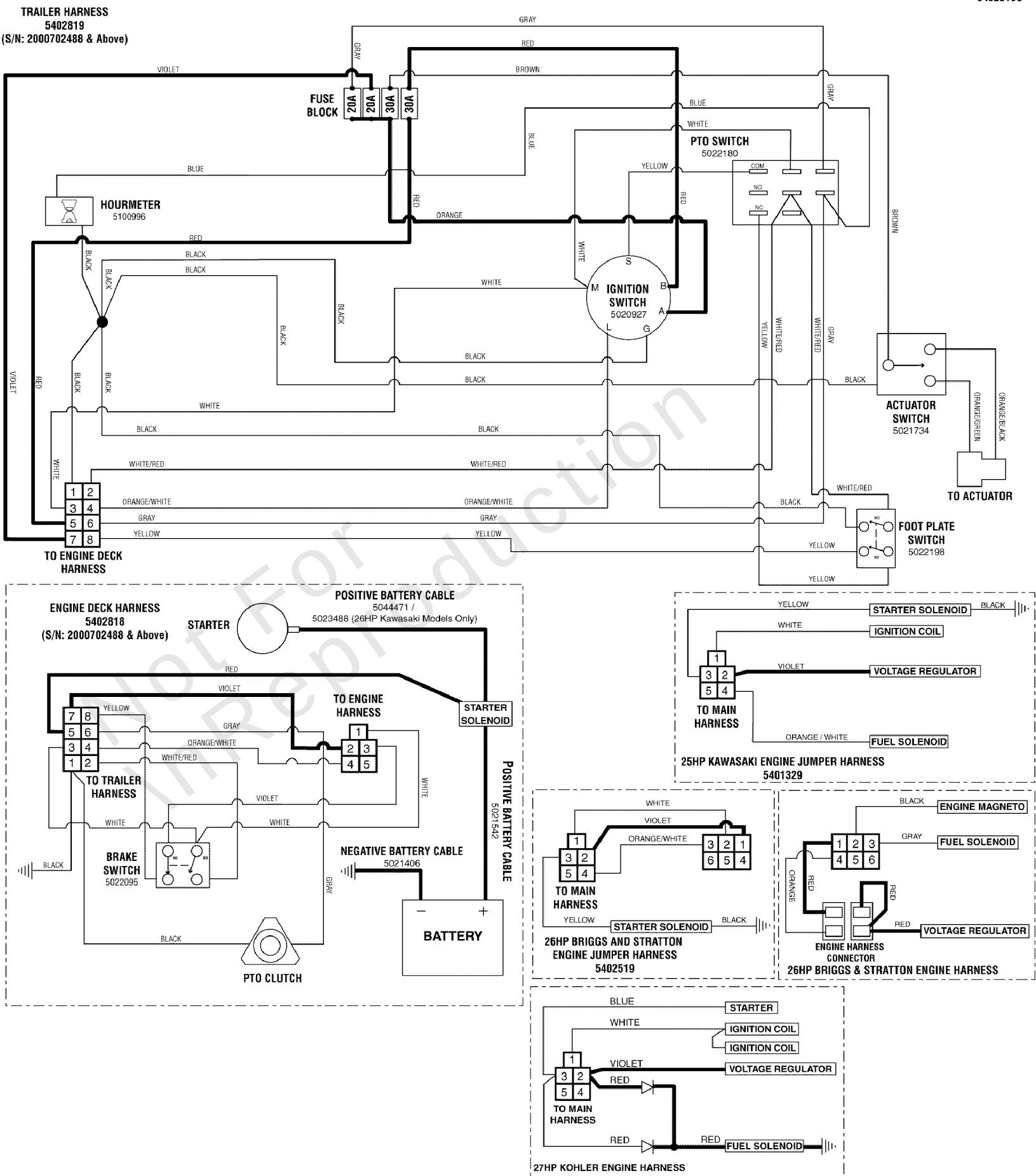
REF NO	PART NO	QTY	DESCRIPTION
1A	5103599	1	DECAL, CONTROL PANEL - TWR -(S/N: 2012617339 & ABOVE)
1B	5100720	1	DECAL, CONTROL PANEL - TWR -(S/N: 2012617338 & BELOW)
2	5103600	1	DECAL, MAIN SAFETY - TWR
3	5103666	1	DECAL, FIRE HAZARD, 6.75W X 1.75H
4	5103619	1	DECAL, MANUAL AVAIL IN SPANISH
5	5022297	1	DECAL, FERRIS LOGO, 9-3/8" -(S/N: 2014620642 & Below)
6	5104767	1	DECAL, FERRIS LOGO, XL
7	5104763	1	DECAL, MODEL, PRO CUT S -(P/N: 5100851 on older
8	7101665	2	DECAL, DANGER DO NOT OPERATE W/O DEFLECT
9	5101990	1	DECAL, CZT HYDRO RELEASE
10	5100835	1	DECAL, CUT HEIGHT, TWR
11	5022813	1	DECAL, 61"
12	5048454	1	DECAL, OIL RESERVOIR
13	5022402	1	DECAL, FUEL VALVE
14	279570	1	DECAL, PROCUT S -(Briggs & Stratton Professional Series)
15	-----	1	NO LONGER AVAILABLE - LABEL, BRIGGS & STRATTON LOGO

Electrical Schematic - Charging Circuit (S/N: 2000702488 & Above)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900533

5402819C



Electrical Schematic - Charging Circuit (S/N: 2000702488 & Above)

REF NO	PART NO	QTY	DESCRIPTION
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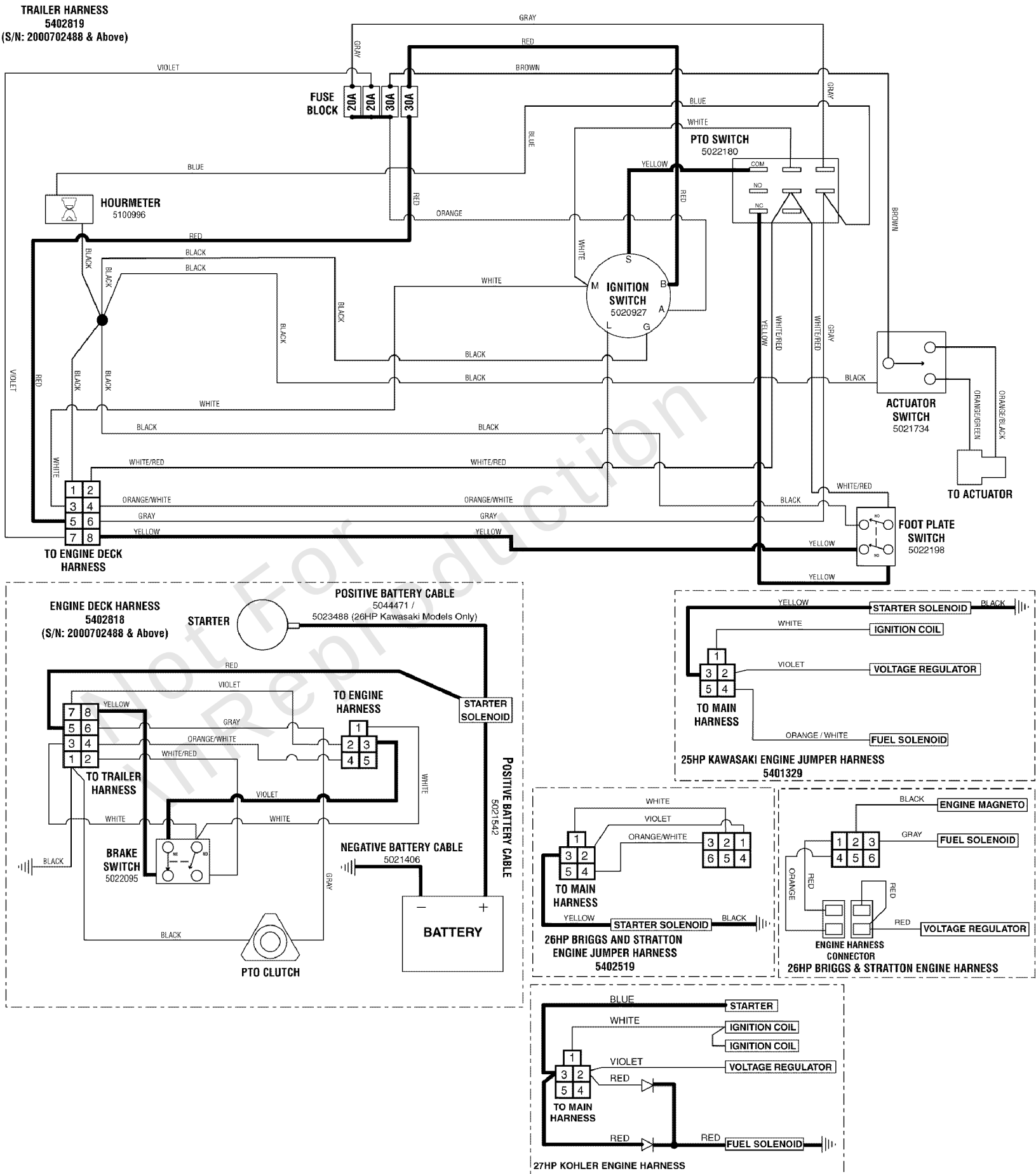
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Electrical Schematic - Cranking Circuit (S/N: 2000702488 & Above)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900533

5402819R



Electrical Schematic - Cranking Circuit (S/N: 2000702488 & Above)

REF NO	PART NO	QTY	DESCRIPTION
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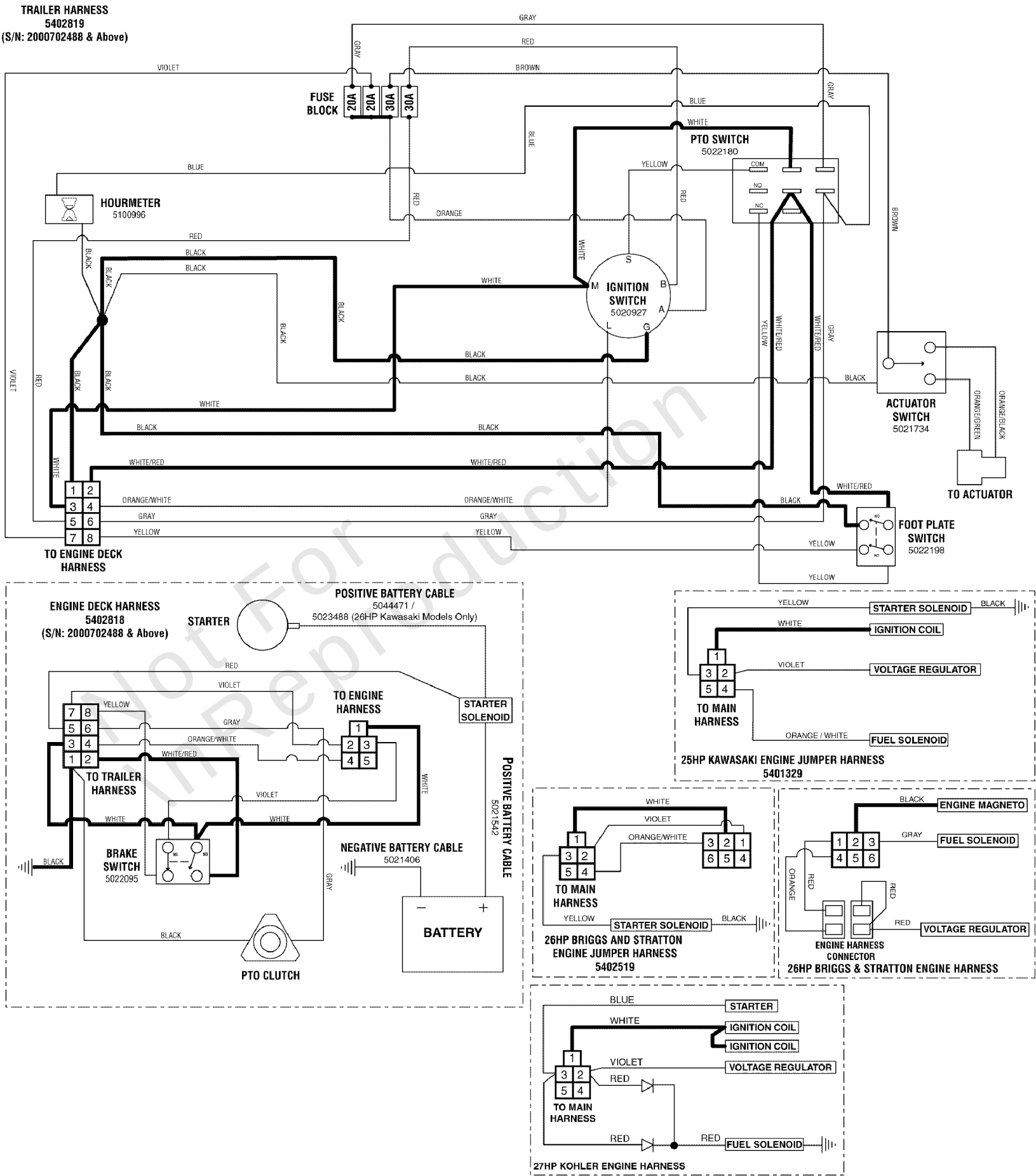
Not For In Reproduction

Electrical Schematic - Ignition Grounding Circuit/Operator Presence (S/N: 2000702488 &

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900533

5402819I



Electrical Schematic - Ignition Grounding Circuit/Operator Presence (S/N: 2000702488 &

REF NO	PART NO	QTY	DESCRIPTION
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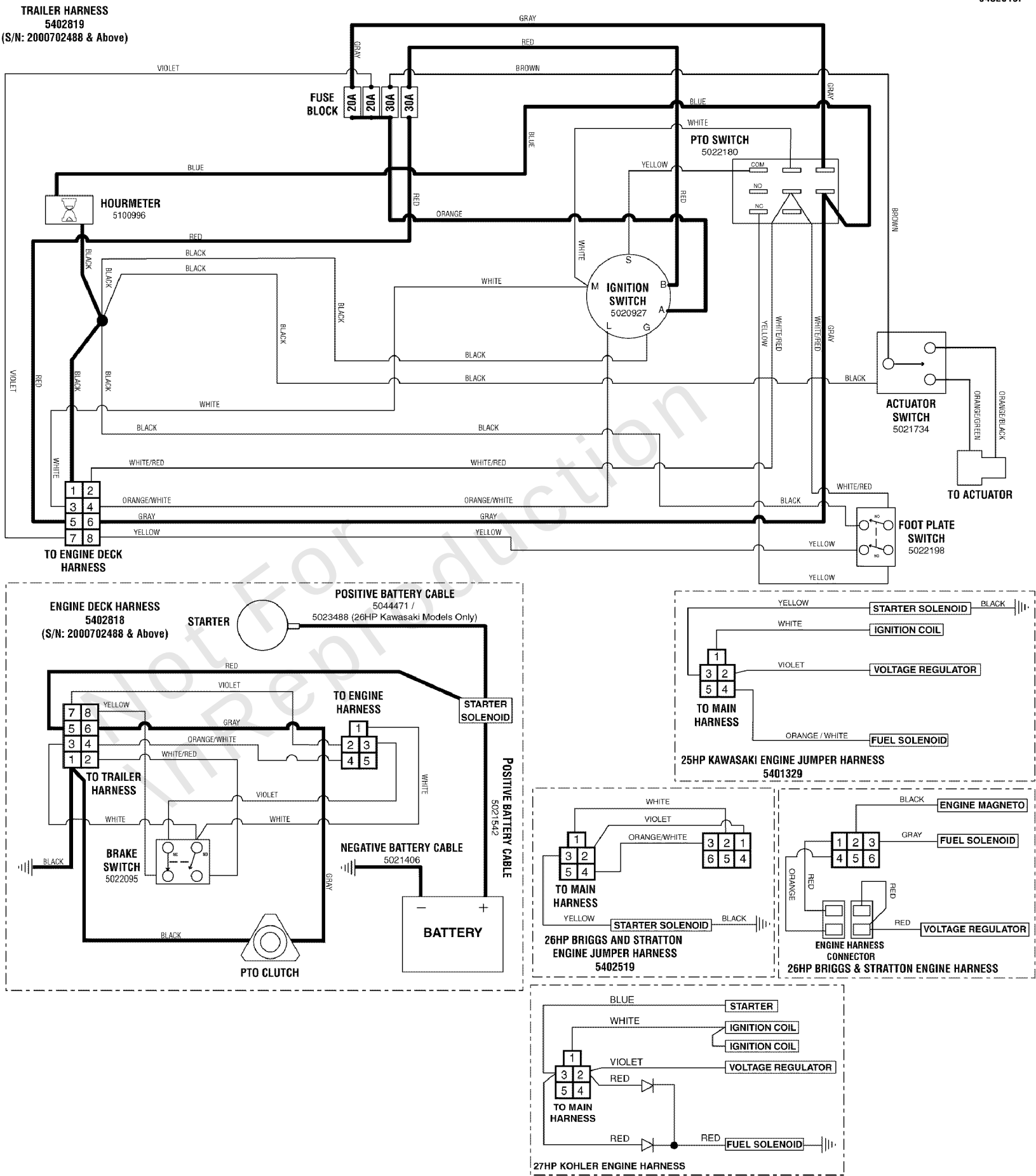
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Electrical Schematic - PTO Clutch Circuit (S/N: 2000702488 & Above)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900533

5402819P



Electrical Schematic - PTO Clutch Circuit (S/N: 2000702488 & Above)

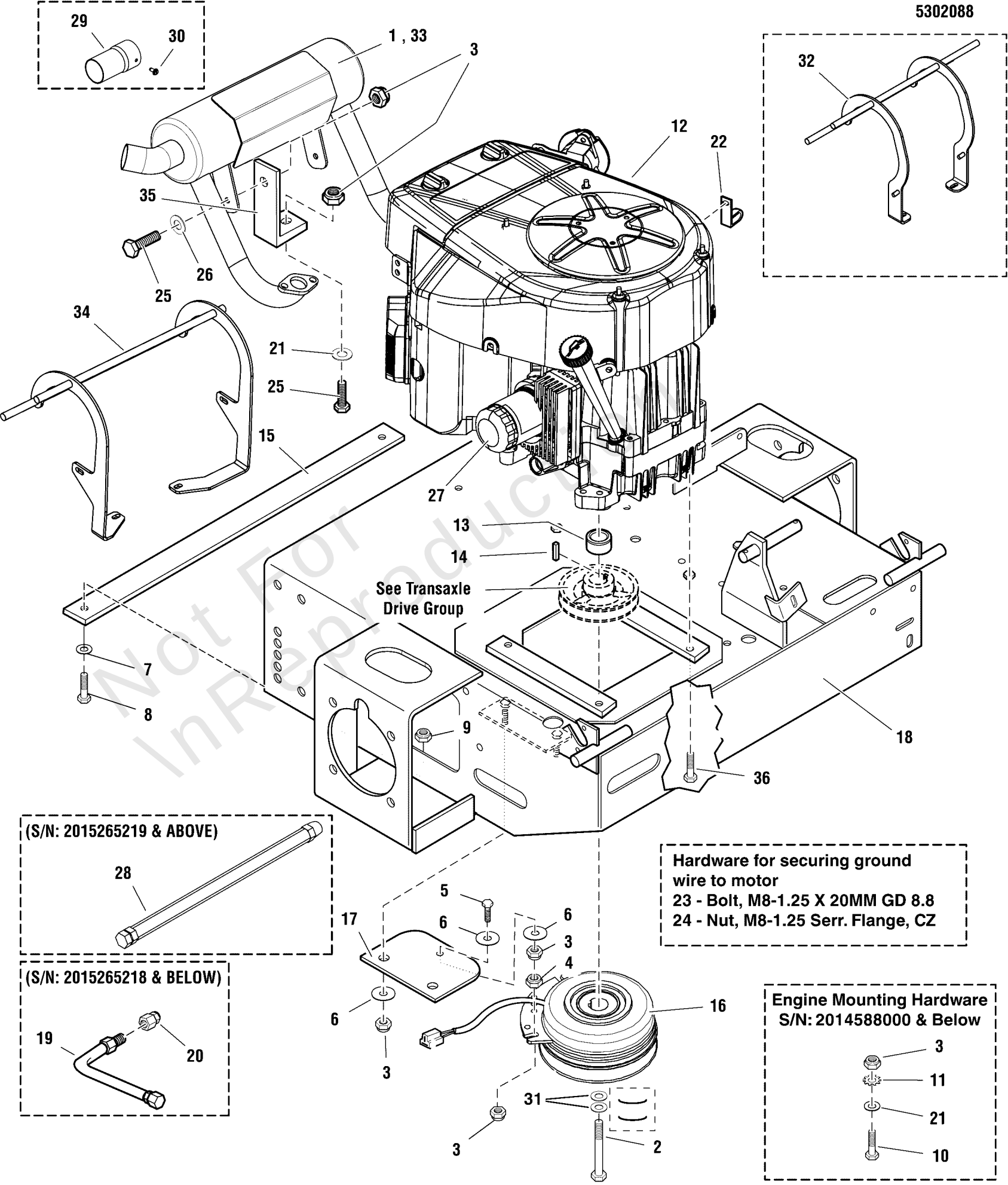
REF NO	PART NO	QTY	DESCRIPTION
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Not For In Reproduction

Engine & PTO Group - Kawasaki FS Series

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900533



Engine & PTO Group - Kawasaki FS Series

REF NO	PART NO	QTY	DESCRIPTION
1	5102297	1	MUFFLER, KAWASAKI, FS730V -(S/N: 2016879056 & Below)
2	5102865	1	BOLT, CRANKSHAFT, 7/16 X 2-3/4, PATCH, CZ -(Refer to Note: *)
3	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE -(Qty: 6 - S/N: 2014588000 & Below)
4	5025139	1	NUT, 5/16-18 HEX SERRATED FLANGE (LARGE)
5	5025055X18	1	BOLT, 5/16-18 X 2-1/4 TFL, GD5 YZ
6	5044617	4	WASHER, .34 X 1.25 X 10 GA
7	5025440	2	WASHER, 1/2" GD9 YZ
8	5025018X10	2	BOLT, 1/2-20 X 1-1/4" GD5 CZ
9	5025098	2	NUT, Hex, Nylon Lock, 1/2-20
10	5025532	4	BOLT, HEX FLG, SER GD5 3/8-16X1-1/4PATCH CZ -(S/N: 2014588000 & Below)
11	5025188	4	WASHER, 5/16" Internal Tooth Lock -(S/N: 2014588000 & Below)
12	-----	1	ENGINE, KAWASAKI
13	5100926	1	SPACER, 1.13 X 1.75 X 1.35, CZ
14	5050407X10	1	KEY, 1/4" SQ. X 1.25
15	5401865B	1	TIE BAR - RED
16	5105090	1	* CLUTCH, 5218-134, WARNER
17	5043636	1	CLUTCH ANCHOR PAD
18	5403916B	1	WELD, ENGINE DECK, TWR - RED
19	5048681	1	HOSE-OIL DRAIN
20	5022234	1	ADAPTER, OIL DRAIN
21	5025155	2	WASHER, 5/16" SAE -(Qty: 6 - S/N: 2014588000 & Below)
22	5021500	1	CLAMP, VINYL INSULATED -(Mounts to engine)
23	5025249	1	BOLT, M8-1.25 X 20MM GD8.8
24	5025355	1	NUT, M8-1.25 SERR. FLANGE, CZ
25	5025011X8	2	BOLT, 5/16-18 X 1"
26	5025292	2	WASHER, 5/16 GD9 FLAT
27	5102278X1	1	OIL FILTER (SV) -(Not Shown)
28	5103346	1	HOSE ASSEMBLY (17.5) ST END
29	5104348	1	EXTENSION, TAILPIPE, 3" - BLACK
30	5025470	1	SCREW, SELF-TAP, #8-32 X 3/8, WASH HEX, CZ
31	5025585	2	BELLEVILLE WASHER 1.1875 X .442 X .089 -(S/N: 2015745414 & Above)
32	5412532A	1	WELD, MUFFLER GUARD, TWR KAV - BLK -(S/N: 2016803539 - 2016879056)
33	5104163	1	MUFFLER, HORIZONTAL, KAWASAKI -(S/N: 2016879057 & Above)
34	5412564A	1	WELD, MUFFLER GUARD, TWR - BLK -(S/N: 2016879057 & Above)
35	5407430B	2	BRACKET, MUFFLER - RED -(S/N: 2016803538 & Below)
36	5025570	4	BOLT, 3/8-16 X 1-3/4, SF, PLT W/PATCH -(S/N: 2014588001 & Above)

Footnotes:

* For models S/N: 2015375705 & Below, when replacing the clutch, the jumper harness (#5403576) is required.

Note: *Torque crankshaft bolt to 65 Ft Lbs. (88 Nm).

0001KAWIFS

Fits Kawasaki Engine Models Numbers:

FS481V

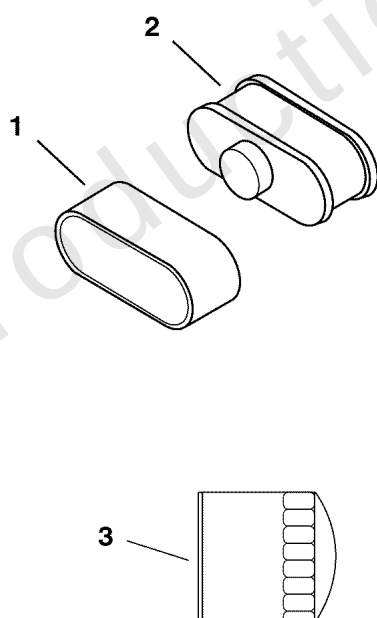
FS541V

FS600V

FS651V

FS691V

FS730V



Engine Service Parts - Kawasaki (FS481V - FS730V)

REF NO	PART NO	QTY	DESCRIPTION
1	5102278X2	1	FILTER,AIR,OUTER,KAWA FS481V THRU FS730V (11013-7046) -(SV)
2	5102278X3	1	FILTER,AIR,INNER,KAWA FS481V THRU FS730V (11013-7049) -(SV)
3	5102278X1	1	FILTER,OIL,KAWA FS,FX,FR 603 & 726CC ENG (49065-7007) -(SV)

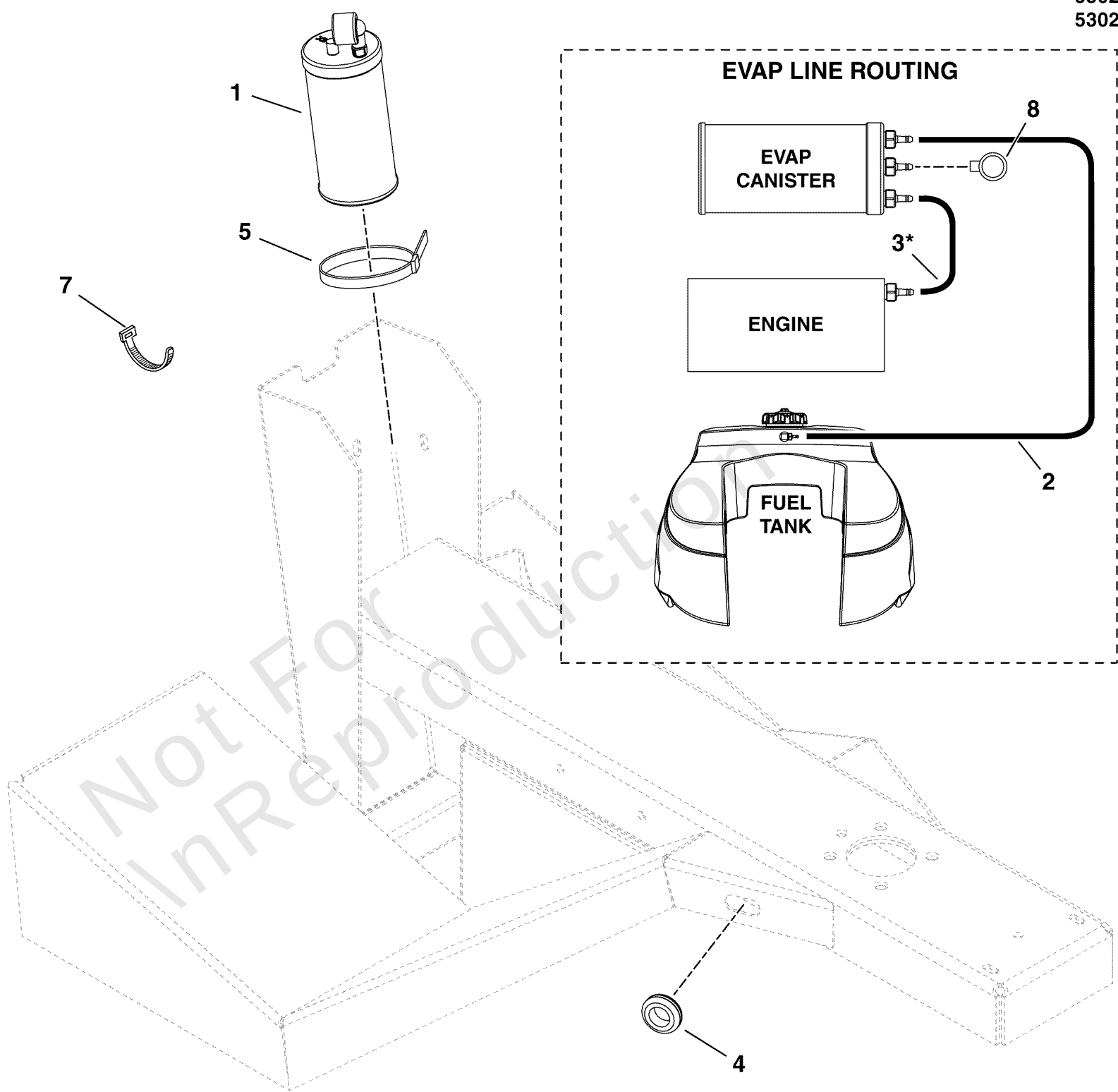
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Evap Canister Group - S/N : 2016816349 & Below

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900533

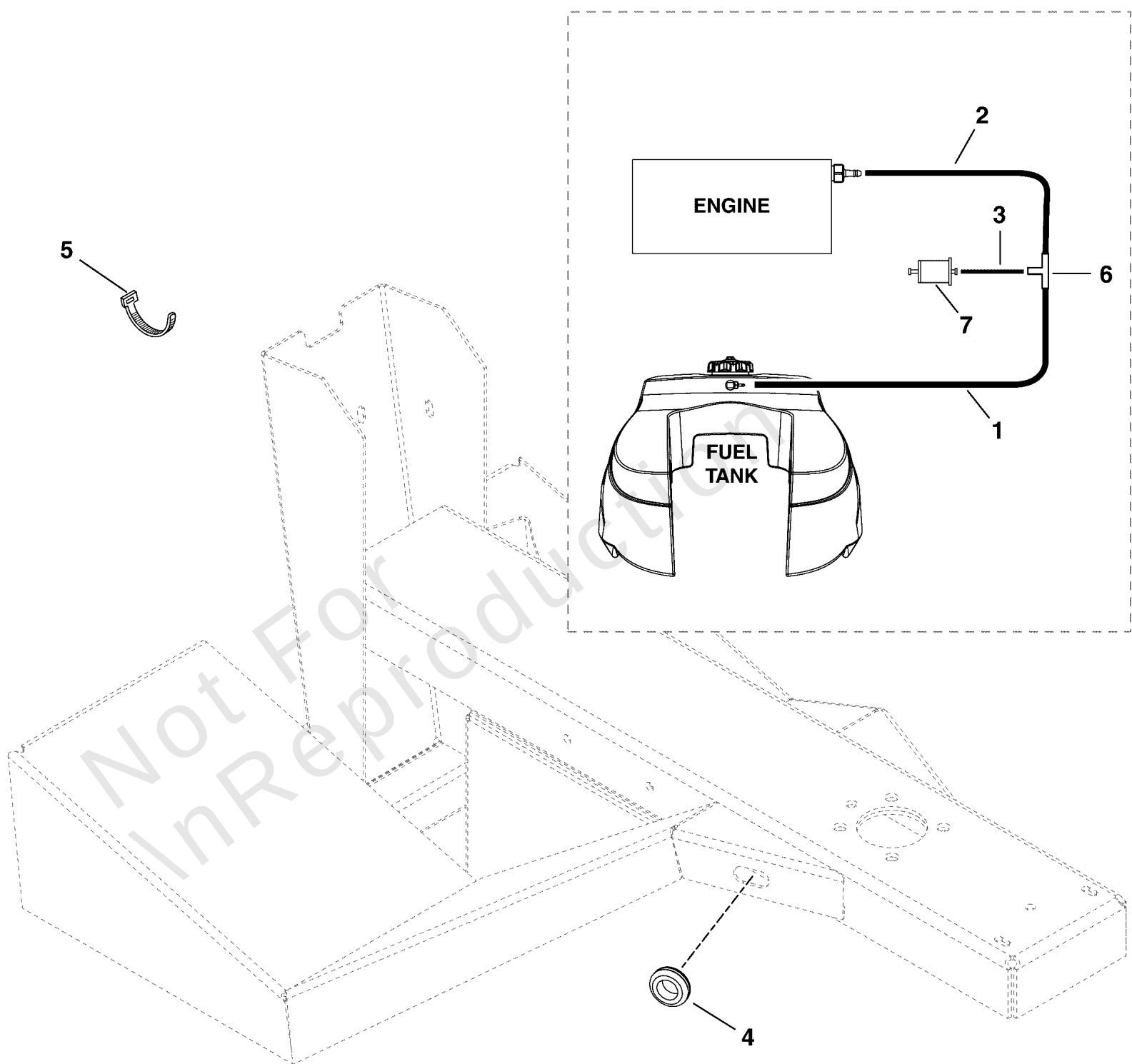
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5302686



Evap Canister Group - S/N : 2016816349 & Below

REF NO	PART NO	QTY	DESCRIPTION
1	313036	1	CNSTR, CARB, 6 GAL
2	7700552X73P5	1	HOSE, VAPOR, 5MM ID, 73.50 LG
3a	7700552X50P5	1	HOSE, VAPOR, 5MM ID, 50.50 LG -(Kawasaki Models)
3b	7700552X45P5	1	HOSE, VAPOR, 5MM ID, 45.50 LG -(Briggs & Stratton Models)
4	5021379	1	GROMMET, 7/8
5	5101492	1	TIE WRAP, 24" LONG
6	-----	1	DECAL, EPA CERT, ZTRS -(Located on frame near Serial Tag)
7	5021029	4	CABLE TIE, 12
8	1752800	1	DUST FILTER, CANISTER (SV)

5303795
5303796



EVAP Group - S/N : 2016816350 & Above

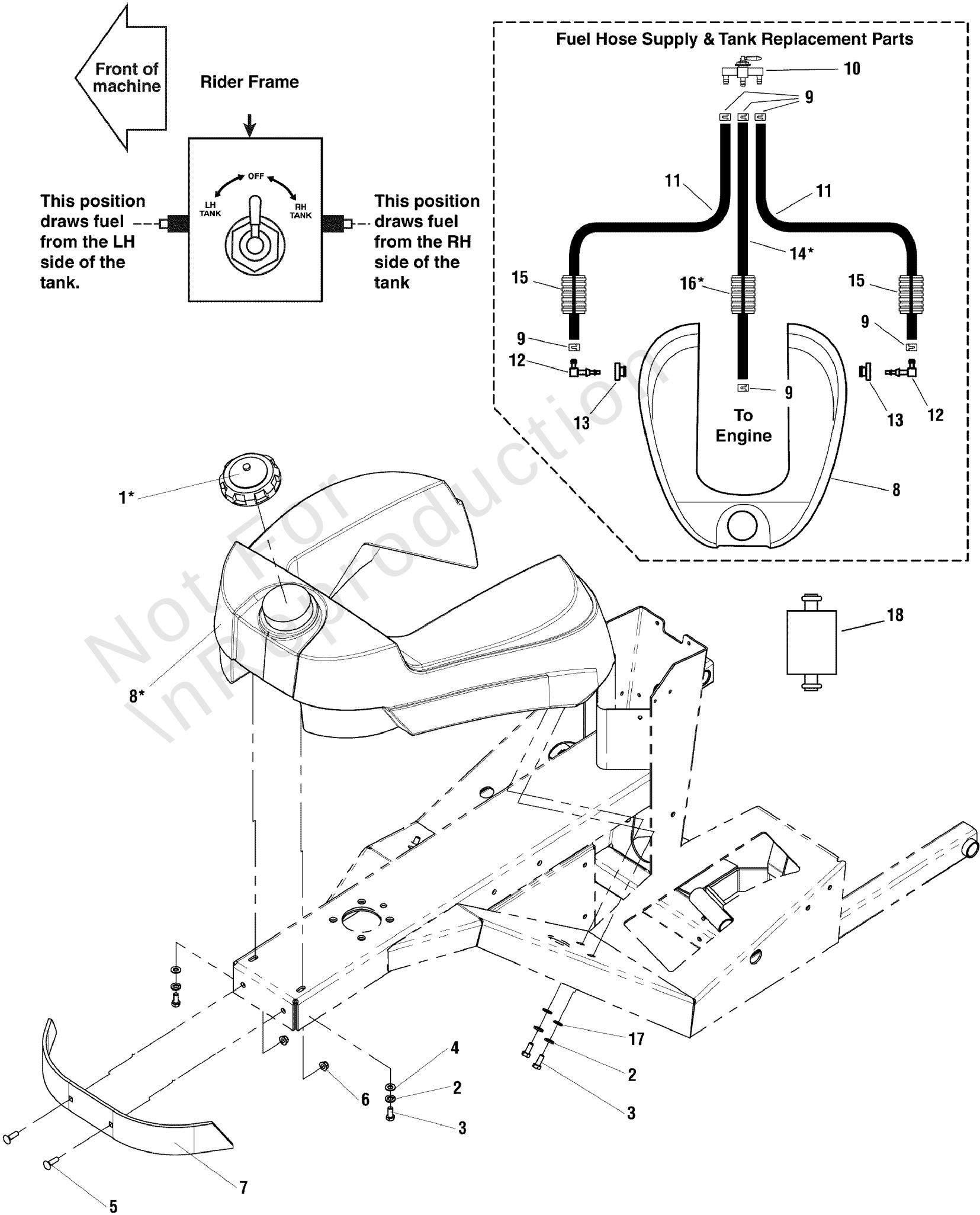
REF NO	PART NO	QTY	DESCRIPTION
1a	7700552X91	1	HOSE, VAPOR, 5MM ID, 91.00 LG -(Briggs & Stratton Models)
1b	7700552X74	1	HOSE, VAPOR, 5MM ID, 74.00 LG -(Kawasaki Models)
2a	7700552X7P5	1	HOSE, VAPOR, 5MM ID, 7.50 LG -(Briggs & Stratton Models)
2b	7700552X24	1	HOSE, VAPOR, 5MM ID, 24.00 LG
3a	7700552X2	1	HOSE, VAPOR, 5MM ID, 2.00 LG -(Briggs & Stratton Models)
3b	7700552X14	1	HOSE, VAPOR, 5MM ID, 14.00 LG -(Kawasaki Models)
4	5021379	1	GROMMET, 7/8
5	5021030	4	TIE, SELF-LOCKING, 6" -(QTY:2 on Kawasaki Models)
6	5103062	1	FITTING, 3/16" TEE, BARB TYPE, HDPE
7	80025019	1	FILTER, FUEL

Fuel Tank & Mount Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900533

5300550



Fuel Tank & Mount Group

REF NO	PART NO	QTY	DESCRIPTION
1a	5101651	1	CAP, GASOLINE, VENTED -(S/N: 2014754381 & Below)
1b	5103005	1	CAP, FUEL TANK -(S/N: 2014754382 & Above)
2	5025170	6	WASHER, 5/16" LOCK
3	5025011X6	6	BOLT, 5/16-18 X 3/4 GD5
4	5025155	2	WASHER, 5/16" SAE
5	5025145X8	2	BOLT, 5/16-18 X 1", CARRIAGE
6	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE
7	5402393B	1	BAR, BUMPER, TWR - RED
8a	5100749	1	TANK, FUEL - TWR -(S/N: 2014754381 & Below)
8b	5103179	1	TANK, FUEL - TWR -(S/N: 2014754382 & Above)
9	93807	6	CLAMP, HOSE, EXTERNAL, 1/2 - RED
10	5023358	1	VALVE, FUEL, STR. OUTLET
11	5050831X42	2	HOSE, FUEL, 1/4 IN, LW PRMTN X 42
12	5023061	2	ELBOW FITTING
13	1726400	2	BUSHING-FUEL TANK RED RUBBER (SV)
14a	5050831X21	1	HOSE, 1/4" FUEL, 21.00" -(Kawasaki FH Series Models)
14b	5050831X28	1	HOSE, 1/4" FUEL, 28.00" -(Briggs & Stratton & Kohler Models)
14c	5050831X13	1	HOSE, 1/4" FUEL, 13.00" -(Kawasaki FS Series Models)
15	5050833X39	2	WIRE LOOM, 1/2" ID, 39"
16a	5050833X18	1	WIRE LOOM, 1/2" ID, 18" -(Kawasaki FH Series Models)
16b	5050833X28	1	WIRE LOOM, 1/2 ID, 28" -(Briggs & Stratton & Kohler Models)
16c	5050833X6	1	WIRE HOSE, 1/2" ID, 6" -(Kawasaki FS Series Models)
17	5025337	4	WASHER, 5/16" USS
18	5021178X3	1	FUEL FILTER (SV)

Hydraulic Components Service Group

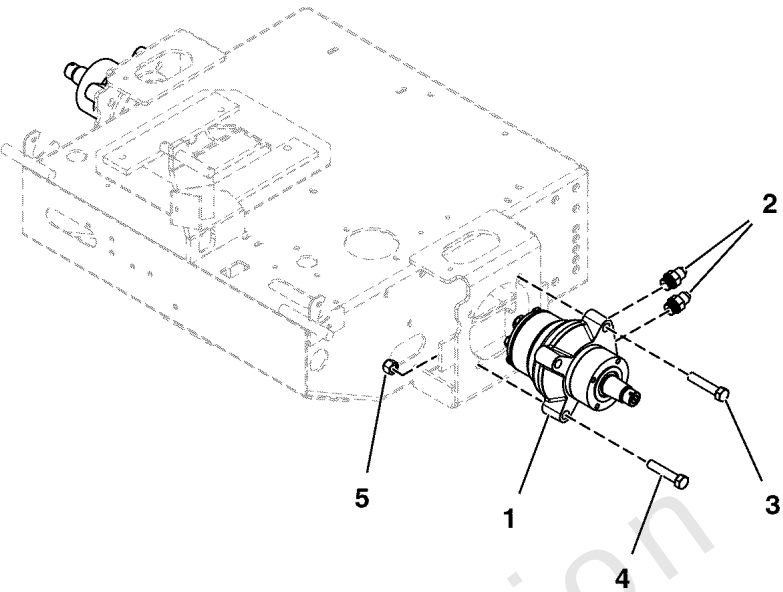
Note: Unless noted otherwise, use the standard torque specifications

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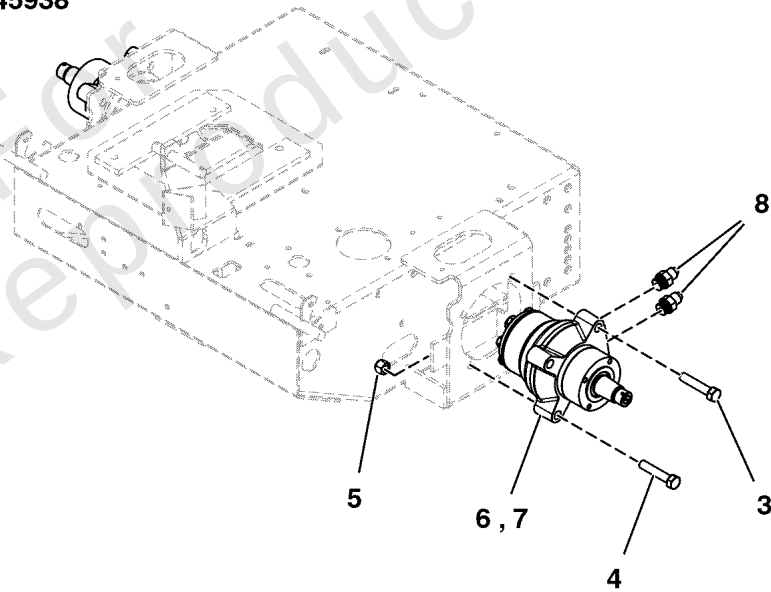
Hydraulic Components Service Group

5300542A

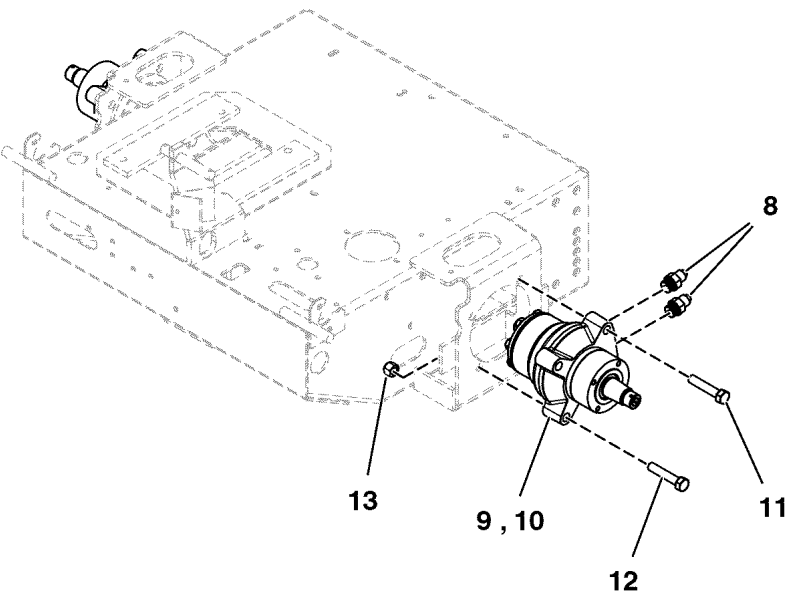
A S/N: 2013830719 & Below



B S/N: 2013830720 - 2014545938



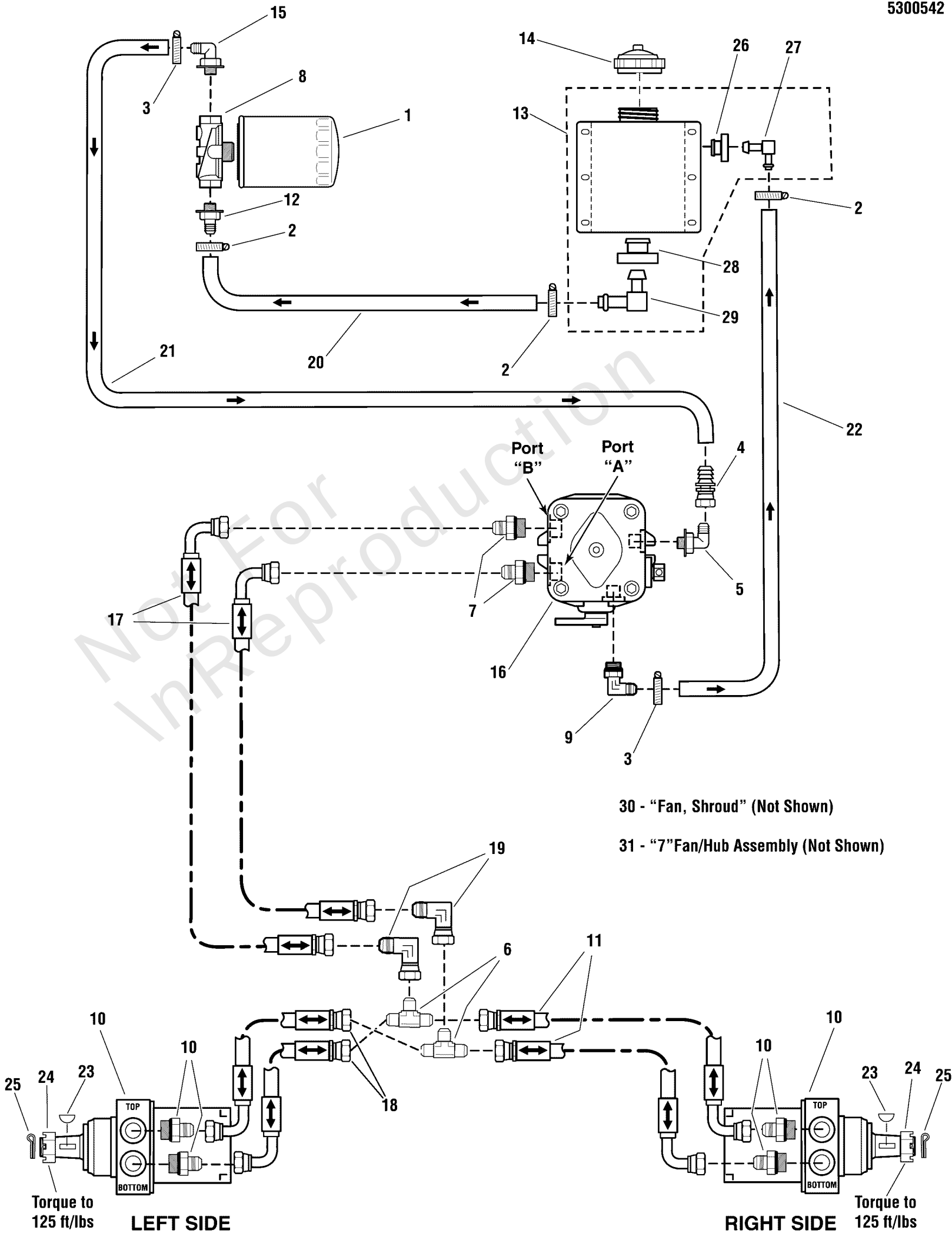
C S/N: 2014545939 & Above



Hydraulic Components Service Group

REF NO	PART NO	QTY	DESCRIPTION
1	-----	-	No Longer Available. Refer to "B" Service Parts
2	5022633	4	FITTING, #8 O-RING X #8 JIC, STR
3	5025018X20	4	BOLT, 1/2-20 X 2-1/2" GD5 CZ
4	5025018X24	4	BOLT, 1/2-20 X 3 GD8 YZ
5	5025098	8	NUT, Hex, Nylon Lock, 1/2-20
6	-----	1	WHEEL MOTOR, Use #5102814 & #5600578
7	-----	1	WHEEL MOTOR, Use #5102815 & #5600578
8	5022634	4	FITTING, #10 O-RING X #8 JIC, STR
9	5102814	1	WHEEL MOTOR, LH, 11.9 CI SHORT
10	5102815	1	WHEEL MOTOR, RH, 11.9 CI SHORT
11	5025552	4	BOLT, 1/2-13 X 3, DRI-LOC PATCH
12	5025553	4	BOLT, 1/2-13 X 3.5, DRI-LOC PATCH
13	5025330	8	NUT, 1/2-13 SQUARE

5300542



Hydraulic Group

REF NO	PART NO	QTY	DESCRIPTION
1	1719168	1	FILTER, OIL
2	5021164	3	CLAMP, #10 HOSE, STAINLESS
3	5021392	2	CLAMP, #6 HOSE, STAINLESS
4	5022598	1	FITTING, STR JIC TO HOSE #8
5	5022599	1	FITTING, #8 JIC - #8 O-RING, 90 DEG.
6	5022604	2	FITTING T JIC #8
7	5022633	2	ADAPTER, HYD.
8	5023096	1	FILTER HEAD, HYDRAULIC
9	5023267	1	ADAPTER, 90 DEG, 9/16-3/8 BARB
10	-----	-	Refer to Hydraulic Components Service Group
11	5102104	2	HOSE ASSEMBLY, 11.5" 90-STR
12	5100678	1	FITTING, STRAIGHT, HYD #12618
13	5061712	1	TANK, HYDRAULIC, ASSEMBLY -(Includes Ref. Nos 26 - 29)
14	5100017	1	CAP, HYDRAULIC
15	5100370	1	FITTING, 9/16 O-RING-1/2" HOSE, 90 DEG
16	5100642	1	* PUMP, HYDRO-GEAR, BDP-16CC -(Includes Ref. Nos 30 and 31)
17	5102105	2	HOSE ASSEMBLY, 19.63" 90-STR
18	5102095	2	HOSE ASSEMBLY (25")
19	5100719	2	FITTING, 90 DEG. #8 JIC M - #8 JIC F
20	5050933X3	1	HOSE, 5/8" PUSH-ON, 3.00"
21	5050857X17P5	1	HOSE, 1/2" PUSH-ON, 17.50"
22	5050860X15P5	1	HOSE, 3/8" PUSH-LOCK, 15.50"
23	5022042X2	2	KEY
24	5022042X3	2	NUT, CASTLE
25	5025203X16	2	PIN, COTTER
26	1726400	1	BUSHING-FUEL TANK RED RUBBER (SV)
27	5023118	1	FITTING, ELBOW, 3/8"
28	5023121	1	GROMMET
29	5023119	1	FITTING, ELBOW, 5/8"
30	5100162	1	FAN SHROUD
31	5022571X1	1	7" FAN / HUB ASSEMBLY

Footnotes:

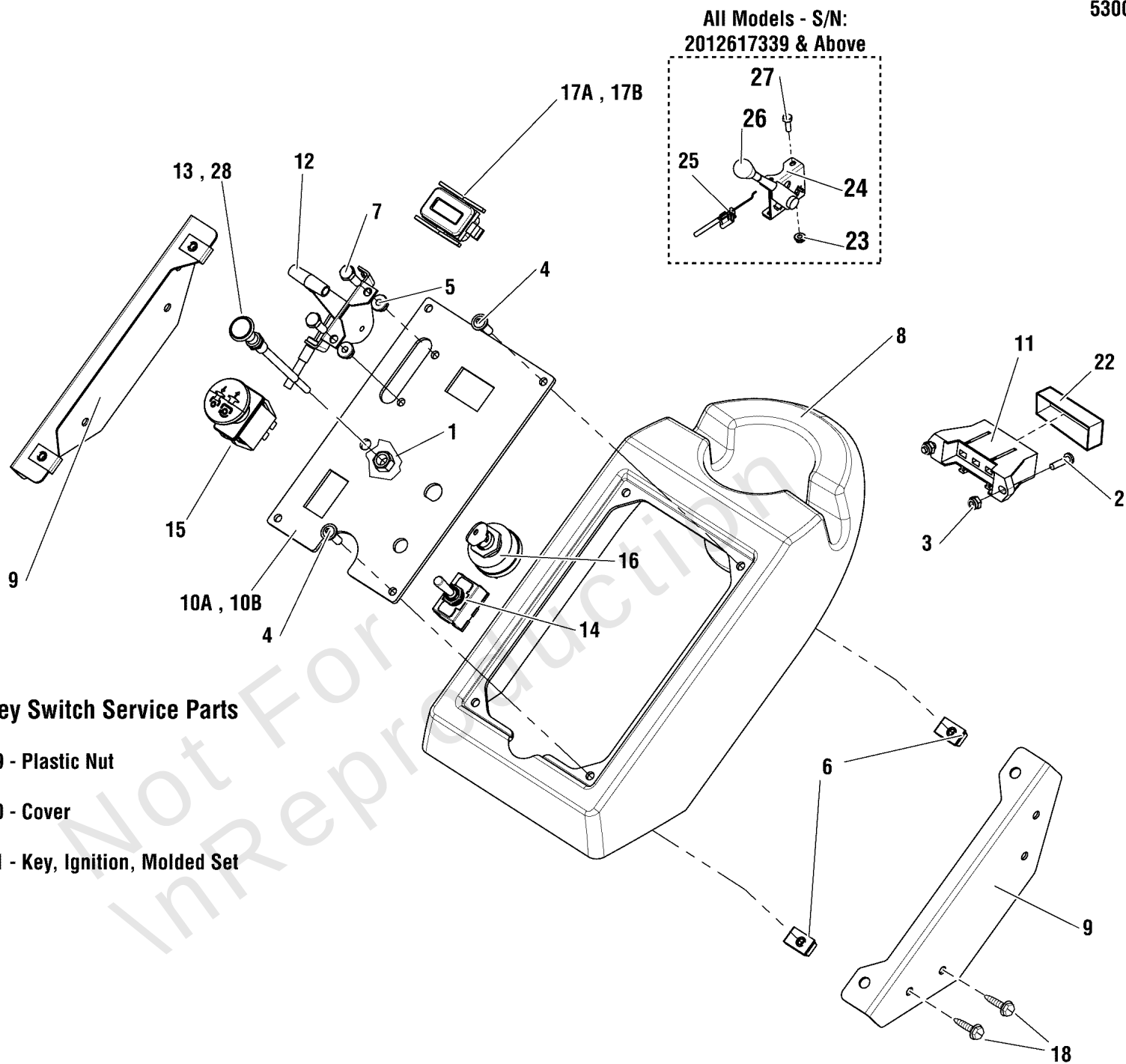
* Use Kit 5103361 (Seal Kit, PR Pumps) when replacing pump seals.

Instrument Panel Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900533

5300537



Key Switch Service Parts

- 19 - Plastic Nut
- 20 - Cover
- 21 - Key, Ignition, Molded Set

Instrument Panel Group

REF NO	PART NO	QTY	DESCRIPTION
1	5025035	1	NUT, 3/8-24 HEX (SV)
2	5025179X6	2	SCREW, #10-24 X 3/4" ROUND PHILLIPS
3	5025271	2	NUT, Hex, Nylon Lock, #10-24
4	5025299X6	4	BOLT, 1/4-20 X 3/4, ALLEN BUTTON HD, YZ
5	5025391	2	NUT, 1/4-20 Hex Nylock Flange
6	5022665	4	BODY CLIP, 1/4-20 X 1/2" DEEP
7	5025010X6	2	BOLT, 1/4"-20 X 3/4" GD5 YZ
8	5100849	1	BEZEL, 3 WHEEL RIDER
9	5402389B	2	PLATE, MOUNT, DASH - RED
10a	5403385B	1	PLATE, DASH, TWR - RED -(S/N: 2012617339 & Above)
10b	5402390B	1	PLATE, DASH, TWR - RED -(S/N: 2012617338 & Below)
11	-----	1	FUSE, BLOCK (SEE ELECTRICAL GROUPS)
12	5021662	1	CABLE, THROTTLE CONTROL, 54"
13	5021663	1	CABLE, Choke Control, 57" -(Kawi Models - S/N: 2014605409 & Below; All Other Models - S/N: All)
14	5021734	1	Switch, Electric Actuator
15	5022180	1	SWITCH, BLADE ENGAGEMENT
16	5020927	1	SWITCH, IGNITION, 6 POST -(Includes Ref. Nos 19 - 21)
17a	-----	1	HOUR METER, ASSEMBLE -(S/N: 2015551938 & Above)(*See Footnote)
17b	5102417	1	HOUR METER -(S/N: 2015551937 & Below)
18	5025279X6	4	BOLT, Self-Tapping, 1/4-20 x 3/4
19	5022791	1	PLASTIC NUT -(Not Shown)
20	5022790	1	COVER, PLASTIC, SNAP ON -(Not Shown)
21	5022789	1	KEY, IGNITION MOLDED SET -(Not Shown)
22	5022805	1	COVER, VINYL, FUSE BLOCK
23	5025271	2	NUT, Hex, Nylon Lock, #10-24
24	5101537	1	LEVER, THROTTLE CONTROL
25	5101072	1	CABLE, THROTTLE, 52"
26	5046360X1	1	THROTTLE CONTROL HANDLE/KNOB
27	5025179X6	2	SCREW, #10-24 X 3/4" ROUND PHILLIPS
28	5047779	1	CABLE, CHOKE CONTROL, 51" (Z) -(Kawi Models - S/N: 2014605410 & Above)

Footnotes:

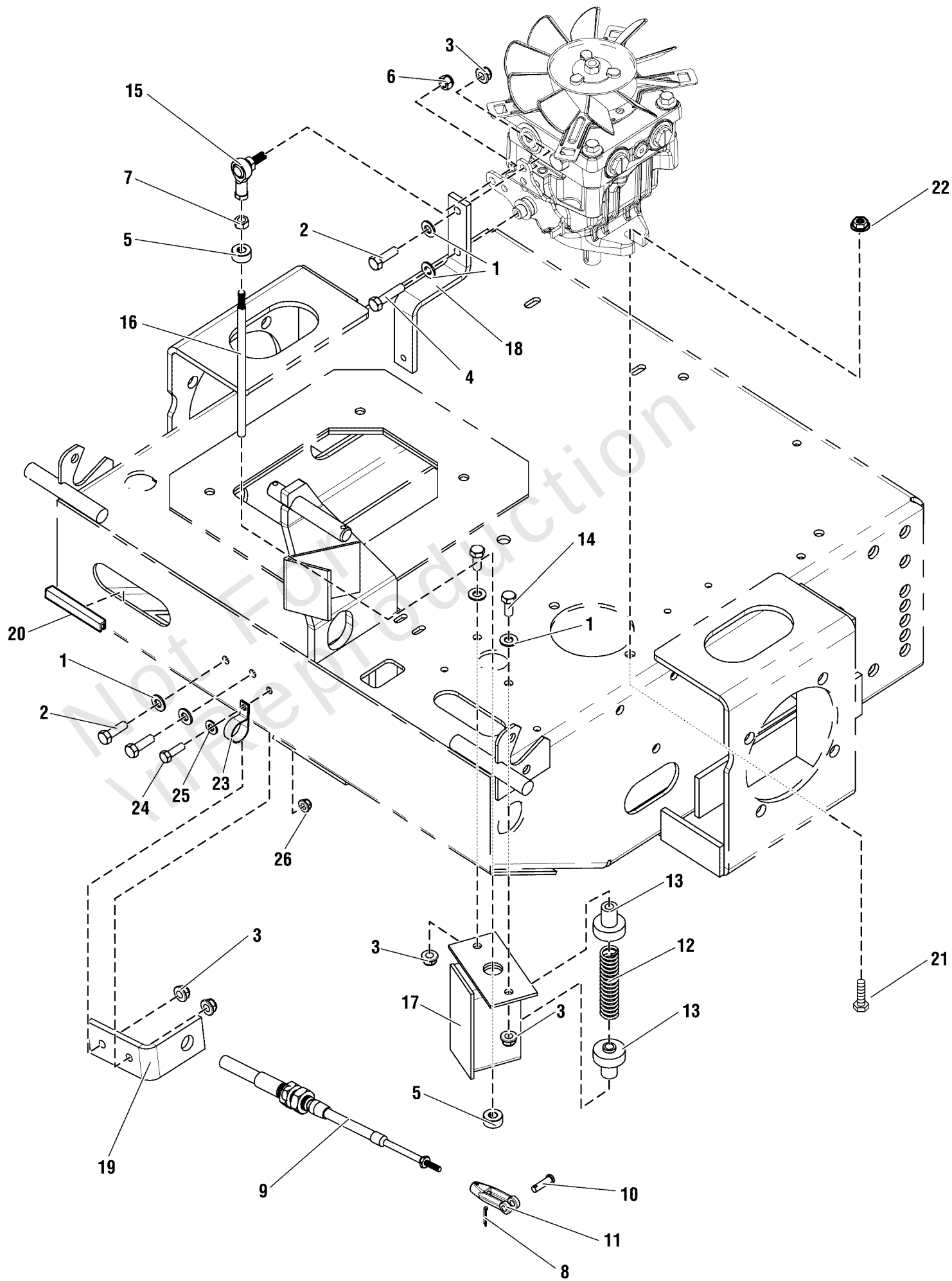
* When replacing this hour meter, please call our service department at 1-800-933-6175 ext. 709

Motion Control Group - Engine Deck

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900533

5300540



Motion Control Group - Engine Deck

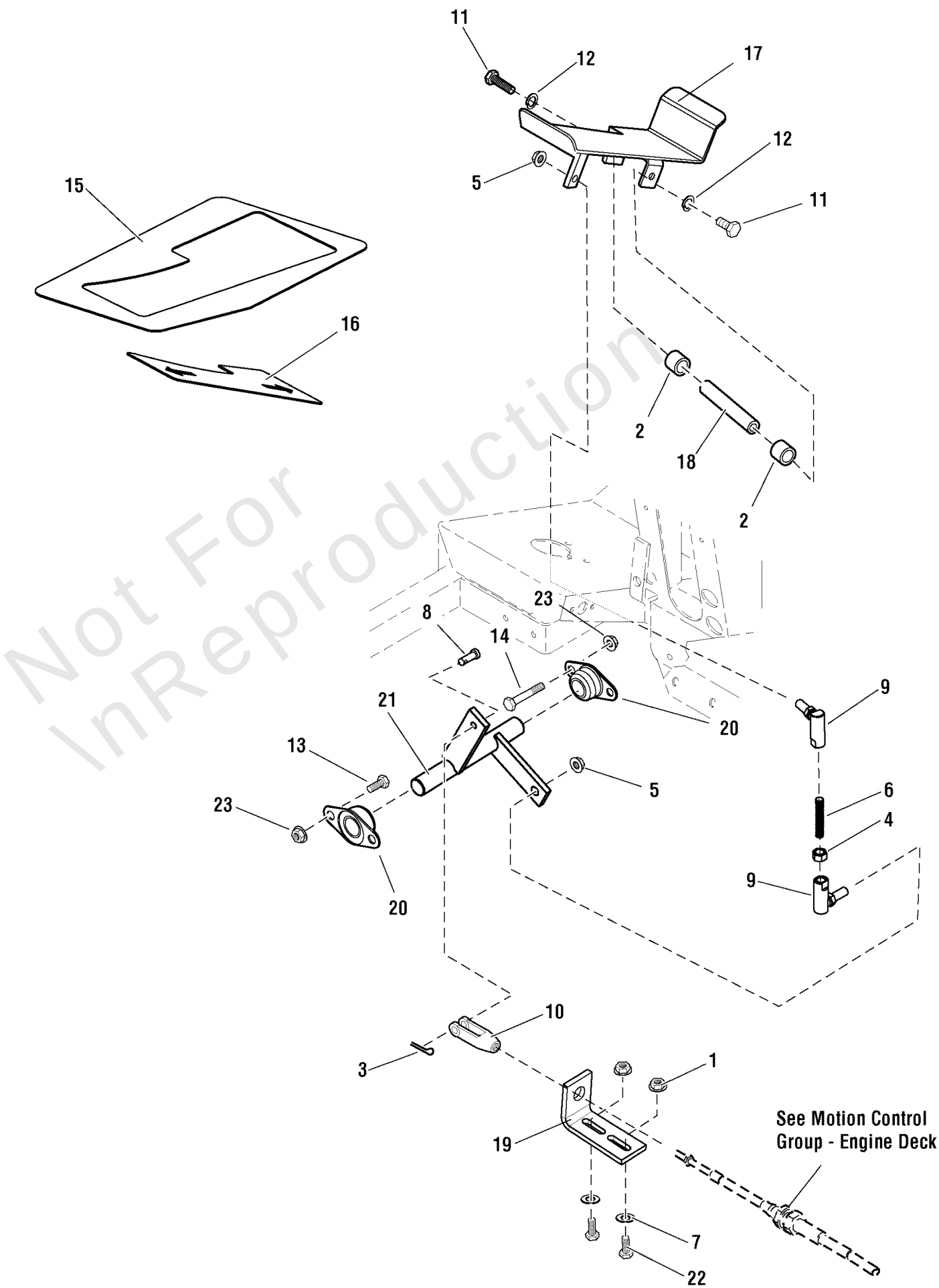
REF NO	PART NO	QTY	DESCRIPTION
1	5025155	6	WASHER, 5/16" SAE
2	5025011X8	3	BOLT, 5/16-18 X 1" GD5 YZ
3	5025392	5	NUT, 5/16-18 HEX NYLOCK FLANGE
4	5025237X25	1	BOLT, M8-1.25 X 25MM GR 8.8
5	5020047	2	COLLAR, 5/16" SET
6	5025045	1	NUT, 5/16-24 HEX NYLON LOCK
7	5025033	1	NUT, 5/16-24 HEX
8	80002736	1	PIN, 3/32 X 0.750, COT, ZINC/CLEAR
9	5100801	1	CABLE, SPEED CONTROL, 36"
10	5025212X7	1	PIN, CLEVIS, 1/4" X 7/8"
11	5021104	1	CLEVIS, 1/4-28, PLASTIC
12	5021354	1	SPRING, BRAKE RETURN
13	5042911	2	SPRING RETURN GUIDE
14	5025011X8	2	BOLT, 5/16-18 X 1" GD5 YZ
15	5104833	1	BALL JOINT, 5/16-24 RH FEMALE W/STUD, BR
16	5100820	1	ROD, NEUTRAL RETURN
17	5402376B	1	WELD, NEUTRAL RETURN, TWR - RED
18	5402164B	1	BAR, 1/4 X 1.00, MOTION CONTROL - RED
19	5402194B	1	BRACKET, CABLE MOUNT - RED
20	5050840X3P5	1	BLACK SOFTONE Q-TRIM 3.5" LONG
21	5025013X10	2	BOLT, 3/8-16 X 1-1/4" GD5 CZ
22	5025128	2	NUT, 3/8-16 HEX SERRATED FLANGE
23	5021500	1	CLAMP, VINYL
24	5025010X6	1	BOLT, 1/4-20 X 3/4" GD5 YZ
25	5025154	1	WASHER, 1/4 SAE
26	5025391	1	NUT, 1/4-20 NYLON FLANGE

Motion Control Group - Trailer

Note: Unless noted otherwise, use the standard torque specifications

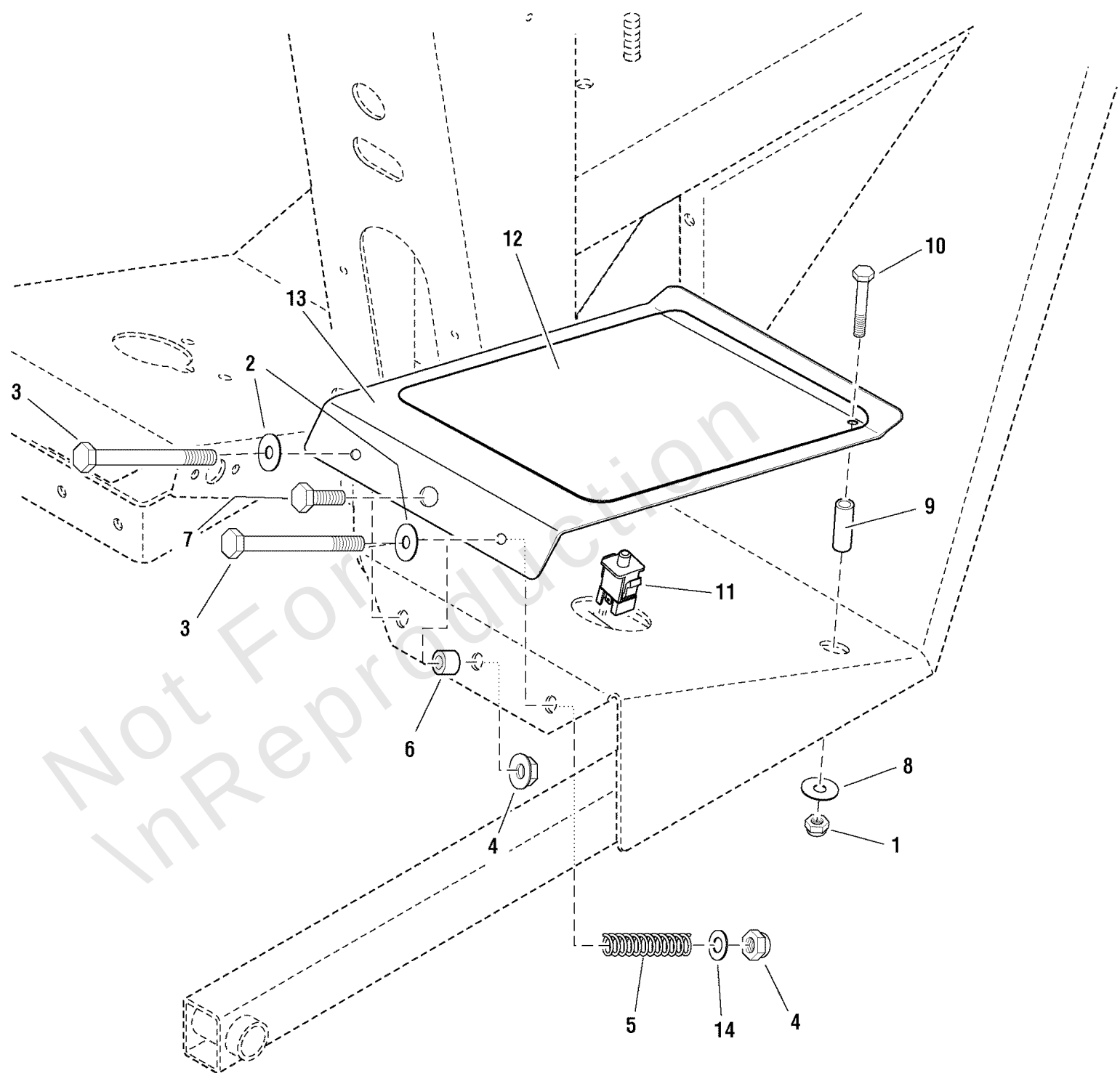
Mfg. No: 5900533

5300541



Motion Control Group - Trailer

REF NO	PART NO	QTY	DESCRIPTION
1	5025139	2	NUT, 5/16-18 HEX SERRATED FLANGE (LARGE)
2	5023344	2	BUSHING, .75 X 1.00 X 1.00, PLASTIC
3	80002736	1	PIN, 3/32 X 0.750, COT, ZINC/CLEAR
4	5025035	1	NUT, 3/8-24 HEX
5	5025097	2	NUT, 3/8-24 HEX NYLON LOCK
6	5100802	1	STUD, 3/8-24 X 2
7	5025155	2	WASHER, 5/16" SAE
8	5025212X7	1	PIN, CLEVIS, 1/4" X 7/8"
9	5020805	2	BALL JOINT, 3/8-24 FEM, STUD.
10	5021104	1	CLEVIS, 1/4-28, PLASTIC
11	5025013X6	2	BOLT, 3/8-16 X 3/4" GD5 CZ
12	5025171	2	WASHER, 3/8" SPLIT LOCK
13	5025011X6	2	BOLT, 5/16-18 X 3/4 GD5
14	5025011X20	2	BOLT, 5/16-18 X 2-1/2" GD5 YZ
15	5101012	1	SAFETY WALK, 11.25 X 8.75, RH - TWR
16	5101006	1	SAFETY WALK, FOOT PEDAL
17	5402387B	1	WELD, FOOT PEDAL, TWR - RED
18	5042147	1	ROD, FOOT PEDAL PIVOT
19	5042170B	1	BRACKET, CABLE MOUNT
20	5021098	2	BEARING, BRONZE FLANGE, 3/4
21	5401827B	1	WELD, FOOT CONTROL SHAFT - RED
22	5025011X8	2	BOLT, 5/16-18 X 1" GD5 YZ
23	5025392	4	NUT, 5/16-18 HEX NYLOCK FLANGE



Operator Presence Group

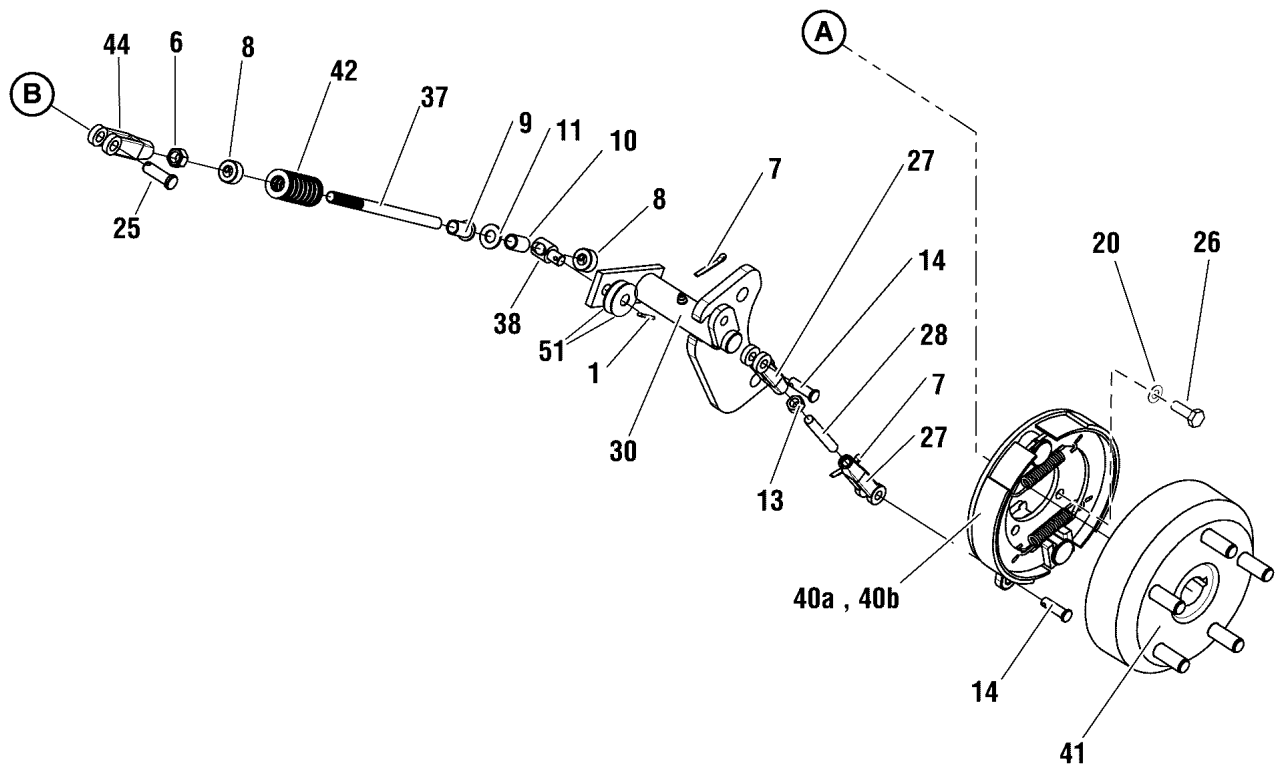
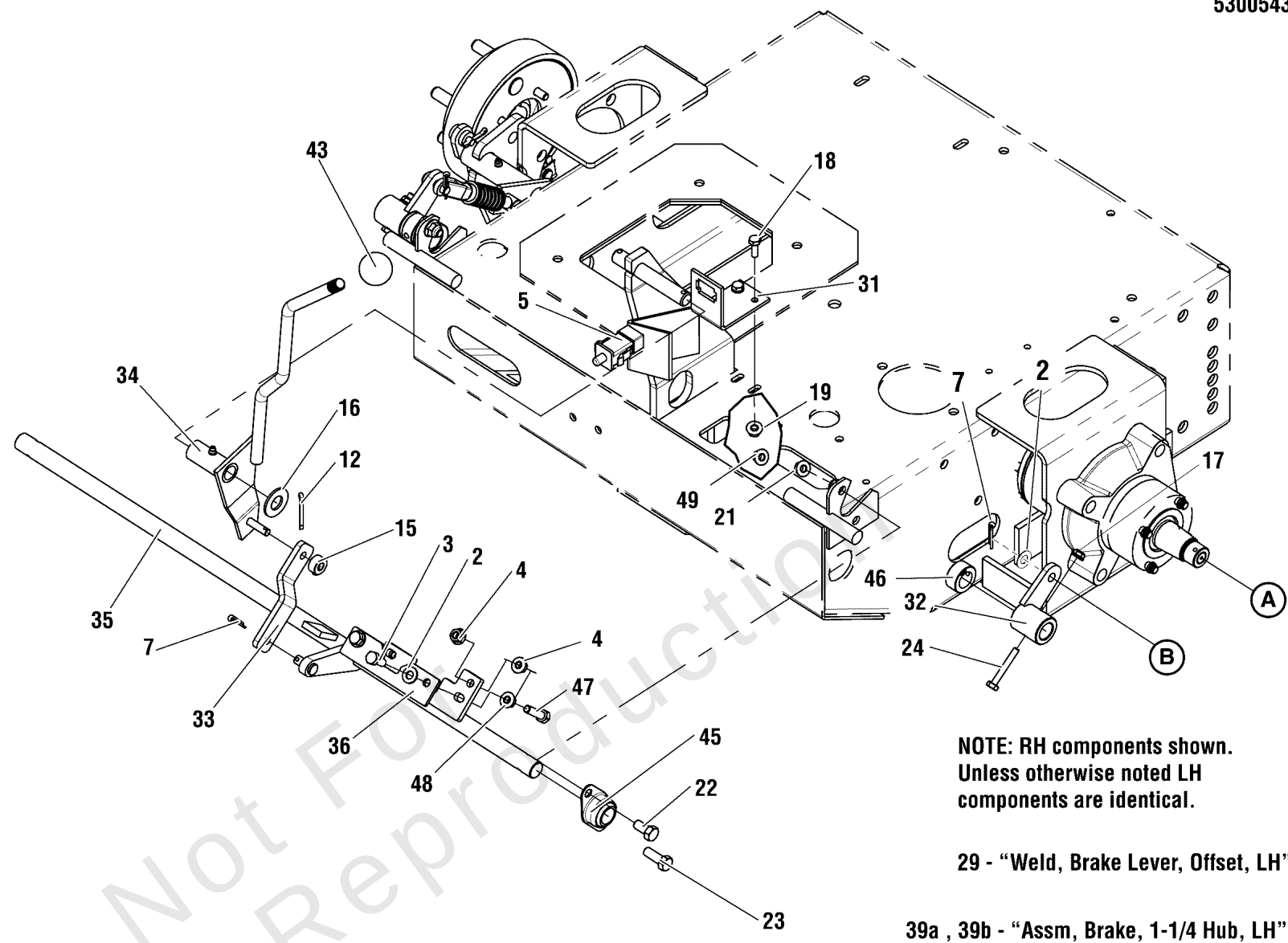
REF NO	PART NO	QTY	DESCRIPTION
1	5025392	1	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
2	5025156	2	WASHER, 3/8 SAE
3	5025013X24	2	BOLT, 3/8-16 X 3" GD5 CZ
4	5025394	3	NUT, 3/8 - 16 HEX NYLOCK FLANGE
5	5021102	2	SPRING-COMP, .594ID X 2.68LG X .080WR
6	5020880	1	INSERT, BEARING, 17MM X 12MM L
7	5025013X10	1	BOLT, 3/8-16 X 1-1/4" GD5 CZ
8	5025164	1	WASHER, 5/16" Fender
9	5043296	1	BUSHING, BRASS, 3/8 X 5/8 X1.5
10	5025011X18	1	BOLT, 5/16-18 X 2-1/4" GD5 YZ
11	7022886	1	SWITCH, DP NO/NC SNAP-IN
12	5101009	1	SAFETY WALK, 13.00 X 9.00, LH - TWR
13	5401833B	1	PLATE, OPERATOR PRESENCE - RED
14	5025156	2	WASHER, 3/8 SAE

Parking Brake Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900533

5300543



Parking Brake Group

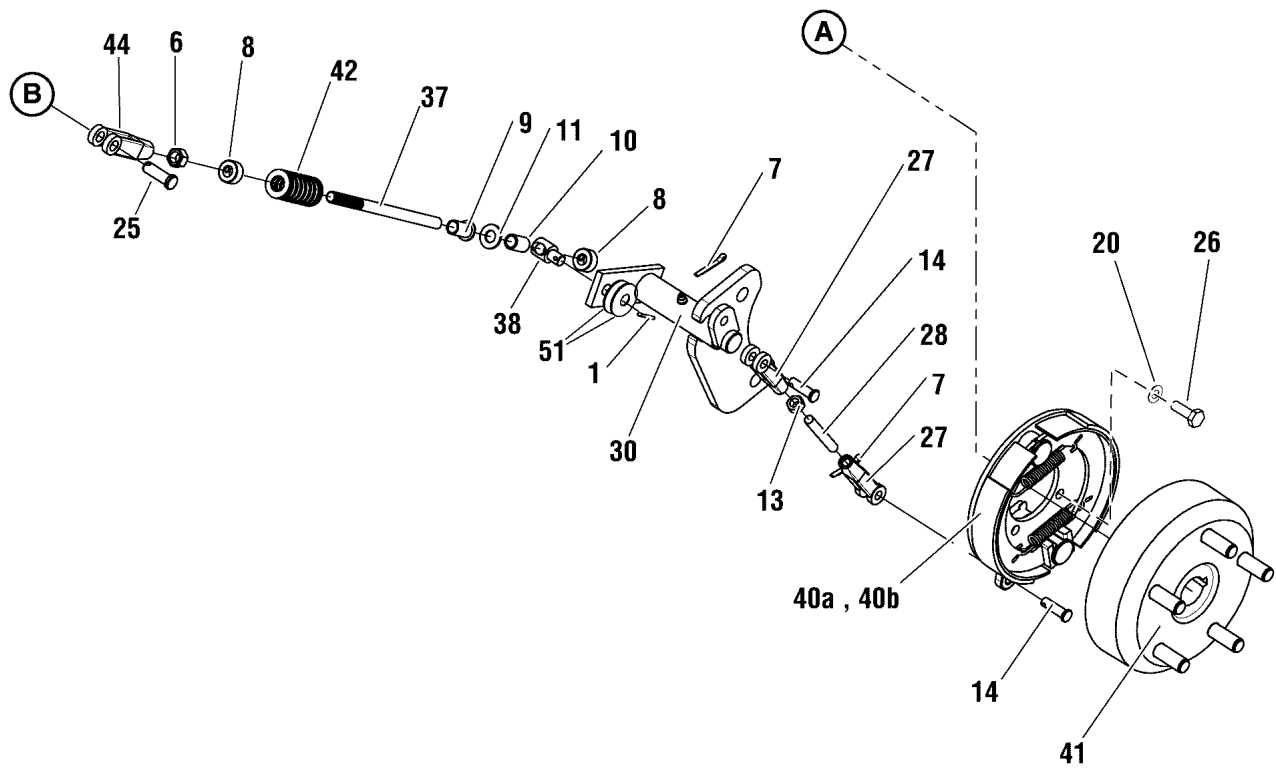
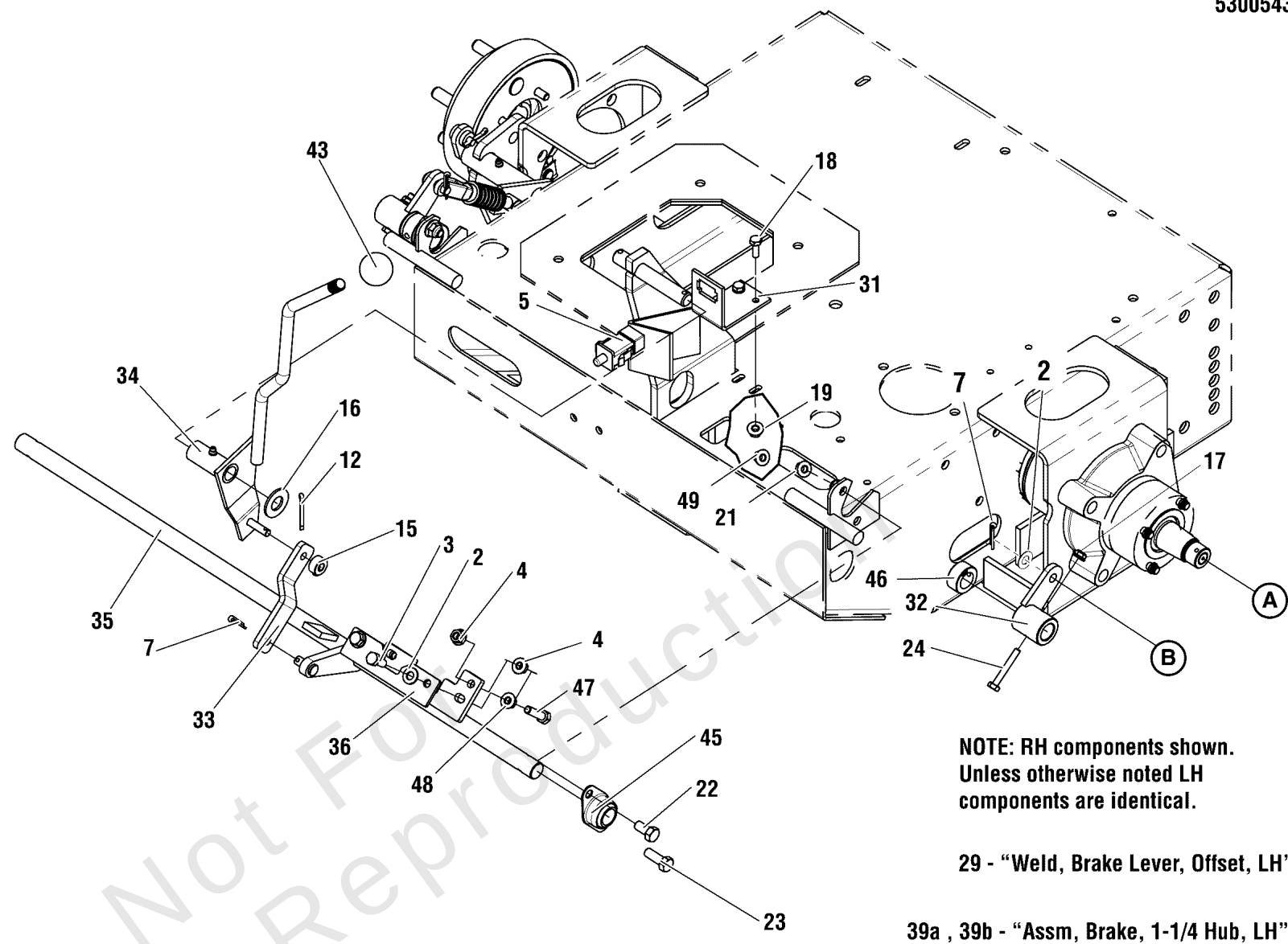
REF NO	PART NO	QTY	DESCRIPTION
1	80002736	2	PIN, 3/32 X 0.750, COT, ZINC/CLEAR
2	5025155	4	WASHER, 5/16" SAE
3	5025011X6	2	BOLT, 5/16-18 X 3/4 GD5
4	5025127	2	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
5	7022886	1	SWITCH, DP NO/NC SNAP-IN
6	5025035	2	NUT, 3/8-24 HEX
7	5025203X6	7	PIN, COTTER, 1/8" X 3/4
8	5010546	4	COLLAR, 3/8" SET
9	5023260	2	BUSHING, NYLON
10	5041930	2	SPACER, .38 X .50 X .27
11	5025156	2	WASHER, 3/8 SAE
12	5025203X10	3	PIN, COTTER, 1/8" X 1-1/4
13	5025033	2	NUT, 5/16-24 HEX
14	5025213X8	4	PIN, CLEVIS, 5/16" X 1
15	5020047	1	COLLAR, 5/16" SET
16	5025281	1	WASHER, 5/8" SAE
17	5025391	2	NUT, 1/4-20 HEX NYLOCK FLANGE
18	5025010X6	2	BOLT, 1/4-20 X 3/4" GD5 YZ
19	5025126	2	NUT, 1/4-20 HEX SERR. FLANGE
20	5025170	8	WASHER, 5/16" LOCK
21	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
22	5025013X6	2	BOLT, 3/8-16 X 3/4" GD5 CZ
23	5025013X8	2	BOLT, 3/8-16 X 1" GD5 CZ
24	5025010X14	2	BOLT, 1/4-20 X 1-3/4" GD5 YZ
25	5025214X9	2	PIN, CLEVIS, 3/8" X 1-1/8"
26	5023490	8	BOLT, 5/16-18 X 3/4 12PT FLANGE - PATCH
27	5023323	4	CLEVIS, 5/16-24, STEEL
28	5047740	2	LINK, STUD
29	5401849B	1	WELD, BRAKE LEVER OFFSET - LH - RED
30	5401848B	1	WELD, BRAKE LEVER OFFSET - RH - RED
31	5400726B	1	BRACKET, SWITCH MOUNT - RED
32	5401859B	2	WELD, PIVOT LINKAGE MOUNT - RED
33	5044043B	1	LINK
34	5030919B	1	BRAKE LEVER WELDMENT
35	5401842B	1	WELD, PARKING BRAKE SHAFT - RED
36	5402158B	1	PLATE, NEUTRAL LOCK - RED
37	5100673	2	ROD, BRAKE ADJUSTMENT
38	5100985	2	ADJUSTER, BRAKE LINKAGE
39a	5102897	1	BRAKE SHOE ASM, LH, KNOTT -(S/N: 2015208612 & Above)
39b	5023500	1	ASSM, BRAKE, 1-1/4 HUB, LH -(S/N: 2015208611 & Below)
40a	5102898	1	BRAKE SHOE ASM, RH, KNOTT -(S/N: 2015208612 & Above)
40b	5023501	1	ASSM, BRAKE, 1-1/4 HUB, RH -(S/N: 2015208611 & Below)
41	5102896	2	BRAKE DRUM, 6", 5 BOLT, KNOTT
42	5022788	2	SPRING, COMPRESSION 2" MEDIUM
43	5021733	1	KNOB, PLASTIC, 1/2-13
44	5021171	2	CLEVIS 3/8-24, PLASTIC
45	5021098	2	BEARING, BRONZE FLANGE, 3/4
46	5010116	2	COLLAR, 3/4" SET

Parking Brake Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900533

5300543



Parking Brake Group

REF NO	PART NO	QTY	DESCRIPTION
47	5025011X10	1	BOLT, 5/16-18 X 1-1/4" GD5
48	5025388	1	NUT, 5/16-18 HEX JAM
49	5025096	2	NUT, 3/8-16 NYLOCK
50	5023368X1	10	STUD, BRAKE DRUM (SV) -(Not Shown)
51	5100146	2	WASHER, .389 X 1.00 X .020, SS

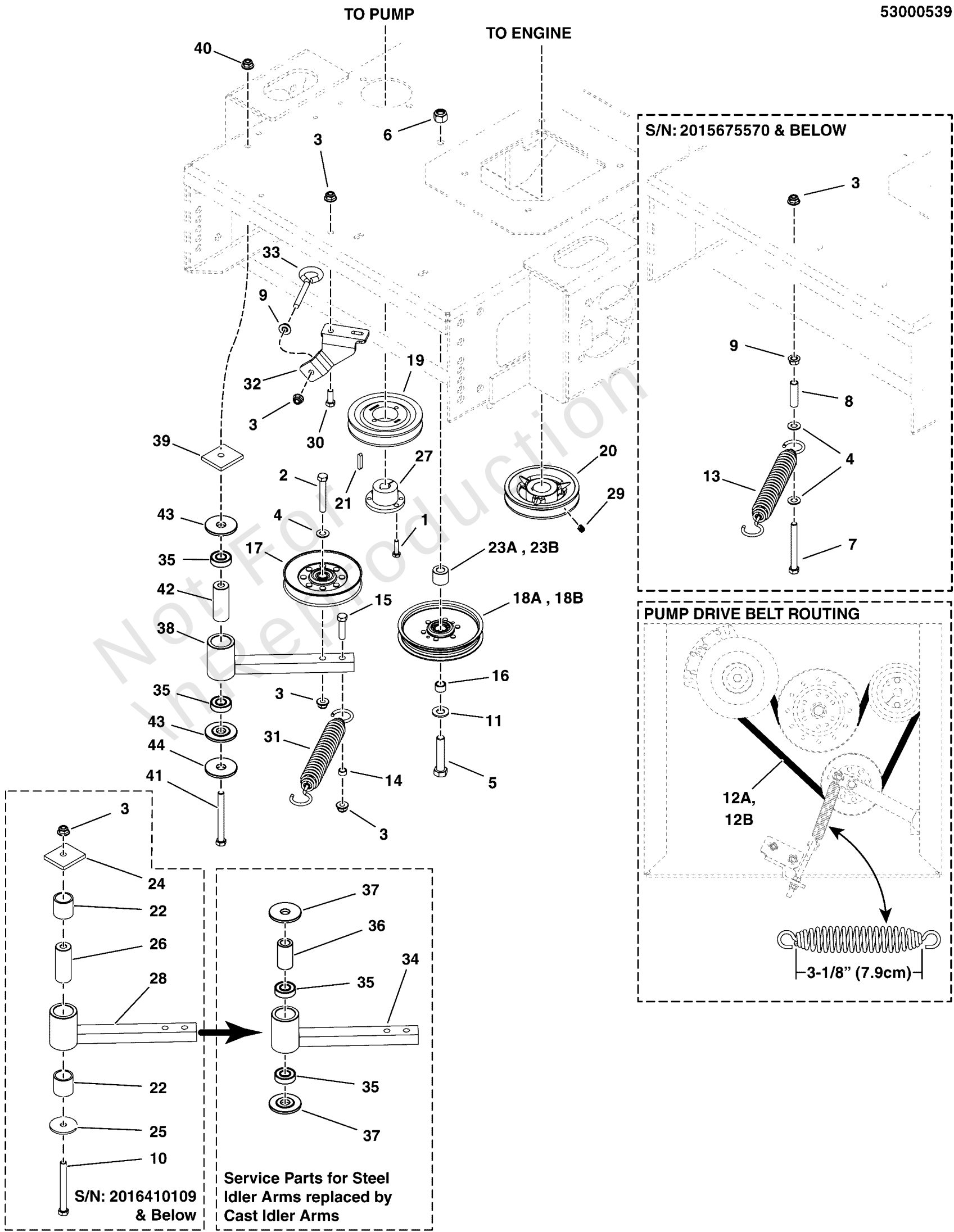
Not For InReproduction

Pump Drive Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900533

53000539



Pump Drive Group

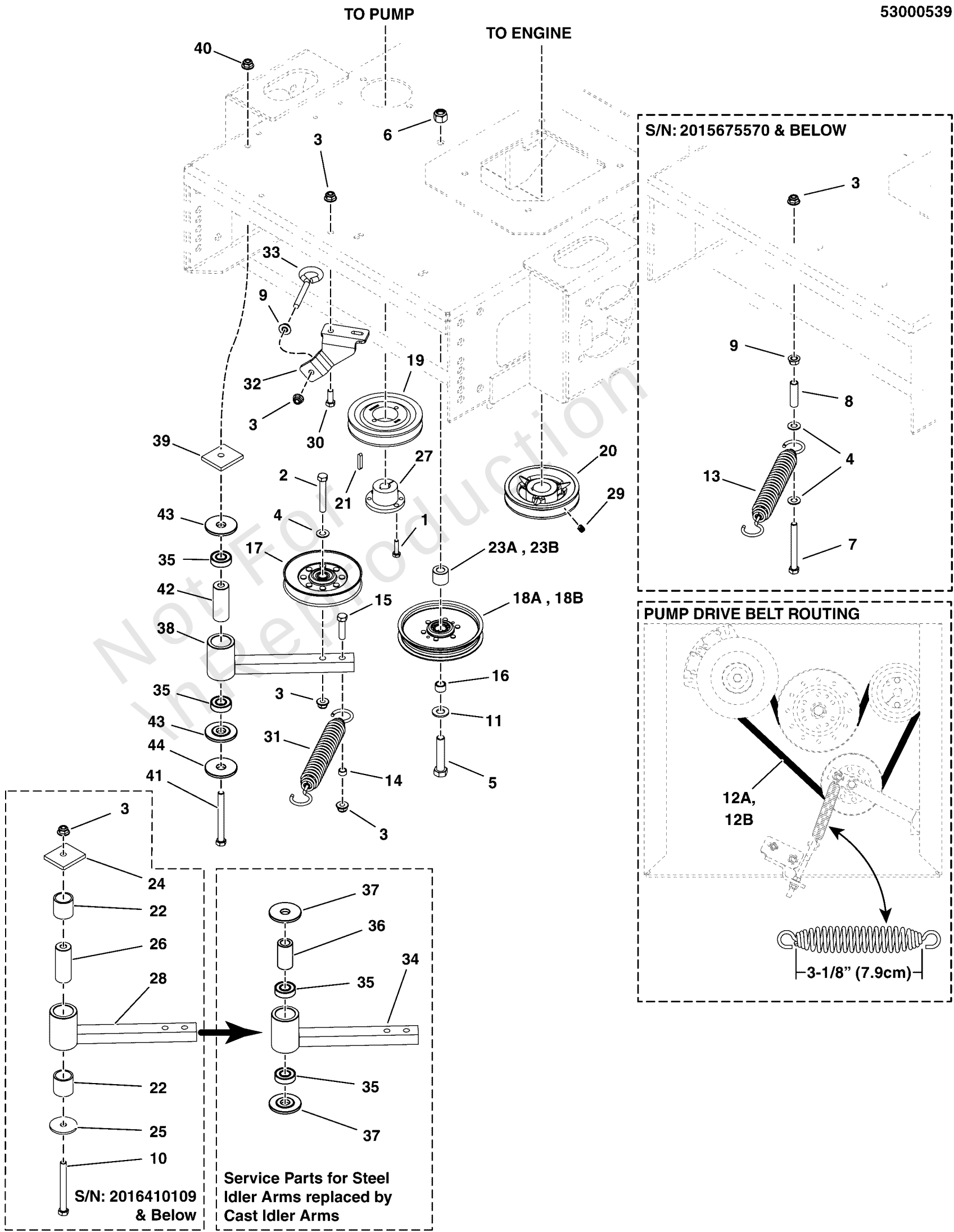
REF NO	PART NO	QTY	DESCRIPTION
1	5025010X8	2	BOLT, 1/4-20 X 1" GD5 CZ
2	5025013X20	1	BOLT, 3/8-16 X 2-1/2" GD5 CZ
3	5025394	4	NUT, 3/8-16 HEX NYLOCK FLANGE
4	5025156	3	WASHER, 3/8 SAE
5	5025018X20	1	BOLT, 1/2-20 X 2-1/2" GD5 CZ
6	5025098	1	NUT, Hex, Nylon Lock, 1/2-20
7	5025013X28	1	BOLT, 3/8-16 X 3-1/2" GD5 CZ
8	5050860X1P75	1	HOSE, PUSH LOCK 3/8 X 1 3/4
9	5025128	1	NUT, 3/8-16 HEX SERRATED FLANGE
10	5025013X32	1	BOLT, 3/8-16 X 4" GD5 CZ
11	5025158	1	WASHER, 1/2 SAE
12a	5103495	1	BELT, B-SEC, 58.2" EL, ARAMID -(S/N: 2015675571 & Above)
12b	5100808	1	BELT, B-SECTION E.L. 56" -(S/N: 2015675570 & Below)
13	5100633	1	SPRING, EXTENSION, SWIVEL, SHORT HOOK
14	5041930	1	SPACER, .38 X .50 X .27
15	5025013X12	1	BOLT, 3/8-16 X 1-1/2" GD5 CZ
16	5020870	1	INSERT, BEARING
17	5100837	1	PULLEY, IDLER V NOTCH, 5 AB1303
18a	-----	1	Replace with: Pulley #5104717 & Debris Shield #5105145
18b	5023264	1	PULLEY, FLAT IDLER, 5.0X.75 -(S/N: 2015675570 & Below)
19	5100815	1	PULLEY , 4.75 OD, SINGLE GROOVE BH-48
20	5021682	1	PULLEY , 4.75 OD, 1-1/8 BORE BC-48
21	5023254	1	KEY, 5MM SQ. W/RADIUS
22	5022157	2	BUSHING, BRASS, 1.25X1X1.25
23a	5047142	1	SPACER, .52 X 1.25 X .70, CZ -(S/N: 2015675571 & Above)
23b	5044673	1	SPACER, .52 X 1.00 X .88 -(S/N: 2015675570 & Below)
24	5045090	1	SPACER, IDLER PIVOT
25	5025305	1	WASHER, .41 X 1.75 X .14
26	5102004	1	SPACER, .39 X 1.00 X 2.55, SS
27	5022383	1	BUSHING, 17MM, HQ
28	5046430A	1	WELD, ARM, PUMP DRIVE IDLER - BLK
29	5025531	2	SET SCREW, 5/16-18 X 3/8, KNUURL, W/PATCH
30	5025013X8	1	BOLT, 3/8-16 X 1" GD5 CZ
31	5102668	1	SPRING-EXT, .930 ODX4.020LGX.120WR
32	5409400B	1	BRACKET, HYDRO SPRING ANCHOR
33	5023497	1	EYE BOLT, 3/8-16 X 5, 2.88THRD, 1EYE, CZ
34	5406895	1	ASSM, IDLER ARM, PUMP DRIVE, 3/8, CAST (SV) -(Includes items # 35 - 37)(5101178A)
35	7078243	2	BEARING, BALL, AXLE
36	5102580	1	SPACER, .39 X .88 X 1.53, CZ
37	5102579	2	SPACER, IDLER ARM, T-STYLE, CZ
38	5411066	1	ASSM, IDLER ARM, PUMP DRIVE, 1/2, CAST (SV) -(S/N: 2016410110 & Above)(5101178A)
39	5103284	1	SPACER, .52ID X 2 X 1.75RCT X .25, CZ -(S/N: 2016410110 & Above)
40	5025396	1	NUT, Hex Flange, Nylock, 1/2-13 -(S/N: 2016410110 & Above)
41	5025017X32	1	BOLT, 1/2-13 X 4" GD5 CZ -(S/N: 2016410110 & Above)

Pump Drive Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900533

53000539



Pump Drive Group

REF NO	PART NO	QTY	DESCRIPTION
42	5103812	1	SPACER, .52 X .84 X 1.53, PM -(S/N: 2016410110 & Above)
43	5103262	2	SPACER, IDLER ARM, 1/2, PM -(S/N: 2016410110 & Above)
44	5103282	1	WASHER, .52 X 1.75 X .14, CZ -(S/N: 2016410110 & Above)

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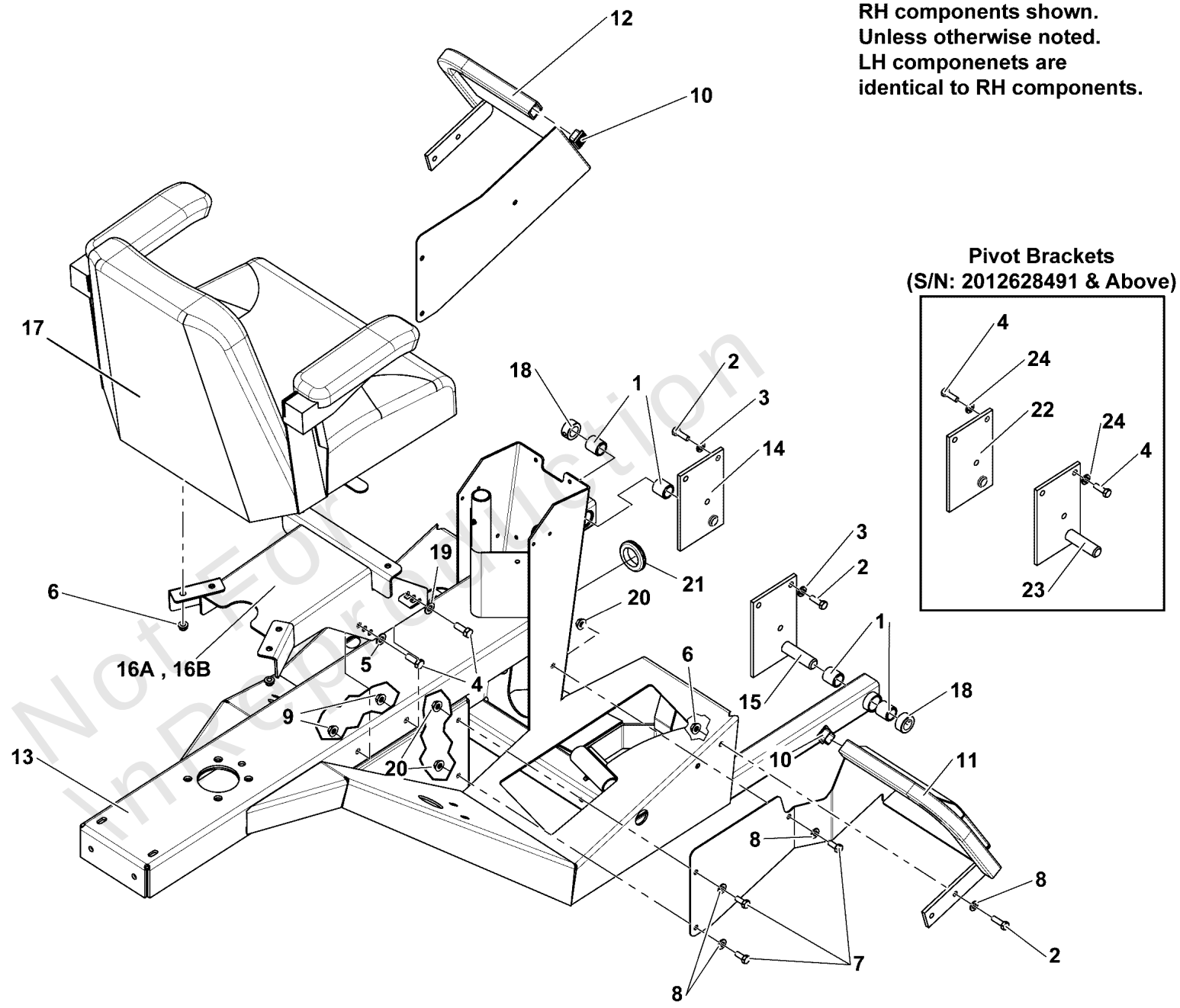
Seat & Mount Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900533

5300535

RH components shown.
Unless otherwise noted.
LH components are
identical to RH components.



Seat & Mount Group

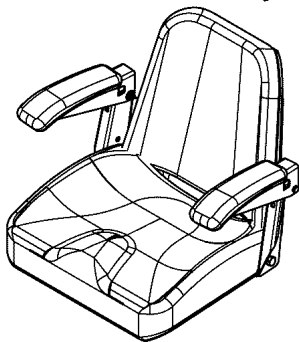
REF NO	PART NO	QTY	DESCRIPTION
1	5023344	4	BUSHING, .75 X 1.00 X 1.00, PLASTIC
2	5025011X8	10	BOLT, 5/16-18 X 1" GD5 YZ
3	5025170	6	WASHER, 5/16" LOCK
4	5025013X8	10	BOLT, 3/8-16 X 1" GD5 CZ
5	5025156	2	WASHER, 3/8 SAE
6	5025392	8	NUT, 5/16-18 HEX NYLOCK FLANGE
7	5025011X6	6	BOLT, 5/16-18 X 3/4 GD5
8	5025155	10	WASHER, 5/16" SAE
9	5025394	4	NUT, 3/8-16 HEX NYLOCK FLANGE
10	5021686	2	CAP, PLASTIC, 1" X 1"
11	5402287B	1	WELD, FOOT GUARD, RH - RED
12	5402286B	1	WELD, FOOT GUARD, LH - RED
13	5401809B	1	WELD, RIDER FRAME - RED
14	5045570B	1	WELD, BRACKET, PIVOT - LEFT -(S/N: 2012628490 & Below)
15	5045571B	1	WELD, BRACKET, PIVOT - RIGHT -(S/N: 2012628490 & Below)
16A	5408073B	1	WELD, SEAT MOUNT - RED -(S/N: 2014582799 & Above)
16B	5401708B	1	WELD, SEAT MOUNT - RED -(S/N: 2014582798 & Below)
17	5108191	1	SEAT, C13, SEAT'S INC -(S/N: 4000875837 & Above)
17	5104681	1	SEAT, C13, SEAT'S INC. 2016 -(S/N: 2017192383 to 4000875836)
17	5103354	1	SEAT - 2012 -(S/N: 2015460123 to 2017192382)
17	5103004	1	SEAT, LOW, COMPANION -(S/N: 2014582799 to 2015460122)
17	5022031	1	SEAT, GRAY, COMPLETE -(S/N: 2014582798 & Below)
18	5010114	2	COLLAR, 3/4" SPLIT
19	5025293	2	WASHER, 3/8" GD.9 FLAT
20	5025139	6	NUT, 5/16-18 HEX SERRATED FLANGE (LARGE)
21	5021379	1	GROMMET, 7/8
22	5403653B	1	WELD, BRACKET, PIVOT - LEFT -(S/N: 2012628491 & Above)
23	5403652B	1	WELD, BRACKET, PIVOT - RIGHT -(S/N: 2012628491 & Above)
24	5025171	6	WASHER, 3/8" SPLIT LOCK

Seat Replacement Parts

Note: Unless noted otherwise, use the standard torque specifications

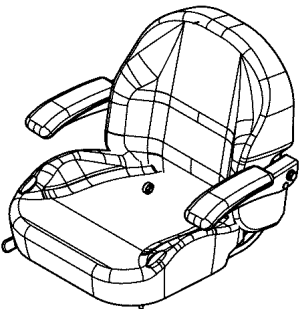
Mfg. No: 5900533

Seat Number: 5022031 - "Gray Seat"



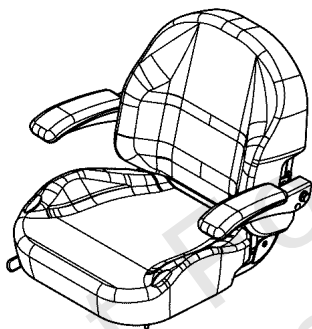
- 1 - Seat Bottom Cushion
- 2 - Seat Back Cushion
- 3 - Arm Rest Kit (Set of 2)
- 4 - Rails, Seat Adjuster (Set of 2)
- 5 - Spring, Extension 4" Adjustment

Seat Number: 5103004 - "Black/Gray Seat, No Trim"



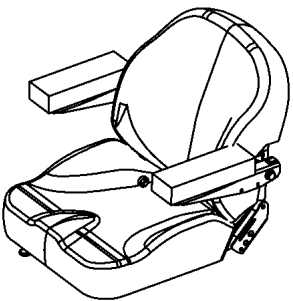
- 6 - Seat, Back Cover
- 7 - Seat Cushion
- 8 - Arm Rest Assembly (Set of 2)
- 9 - Slide Rails

Seat Number: 5103354 - "Black/Gray Seat, Red Trim"



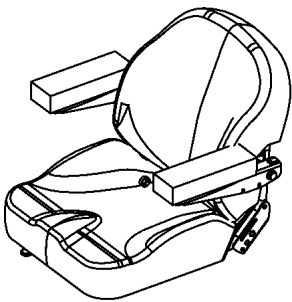
- 10 - Seat Back Cover
- 11 - Seat Cushion
- 12 - Arm Rest Assembly (set of 2)
- 13 - Slide Rails

Seat Number: 5104681 - Seat, CI3, Seat's Inc. 2016"



- 14 - Back Cover, CI3 Seat
- 15 - Cushion Cover, CI3 Seat
- 16 - Left and Right Hand Arm Assemblies, CI3 Seat
- 17 - Set of Arm Pads, CI3 Seat
- 18 - Track Kit, CI3 Seat

Seat Number: 5108191 - Seat, CI3, Seat's Inc."

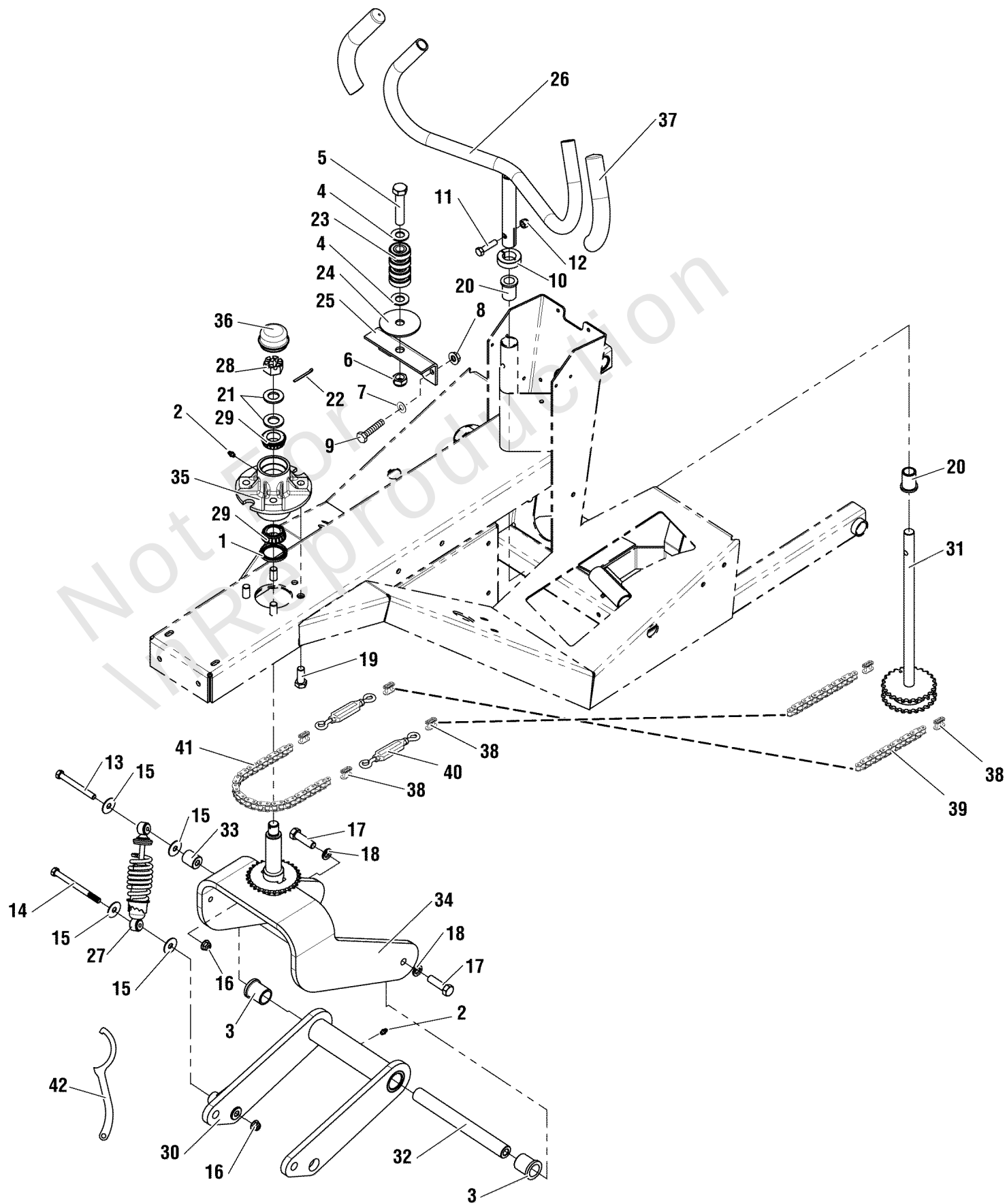


- 19 - Back Cover, CI3 Seat
- 20 - Cushion Cover, CI3 Seat
- 21 - Left and Right Hand Arm Assemblies, CI3 Seat
- 22 - Set of Arm Pads, CI3 Seat
- 23 - Track Kit, CI3 Seat

Seat Replacement Parts

REF NO	PART NO	QTY	DESCRIPTION
1	5022031X2	1	CUSHION, SEAT BOTTOM, GRAY
2	5022031X4	1	CUSHION, SEAT BACK, GRAY
3	5022185	1	ARM REST, BLACK MOLDED, PAD ONLY
4	5020930X3	1	RAILS, SEAT ADJUSTER (SET OF TWO)
5	5100636	1	SPRING, EXTENSION, SEAT ADJUSTMENT (YEL OR BLK) -(SV)(Not an illustrated part.)
6	5102760X1	1	SEAT BACK COVER
7	5102760X2	1	SEAT CUSHION
8	5102760X3	1	Arm Rest Asm. (set of 2)
9	5102760X4	1	SLIDE RAILS
10	5103354X1	1	SEAT BACK COVER, SEAT 2012
11	5103354X2	1	SEAT COVER
12	5102760X3	1	Arm Rest Asm. (set of 2)
13	5102760X4	1	SLIDE RAILS
14	5104681X1	1	BACK, COVER, CI3 SEAT
15	5104681X2	1	CUSHION COVER, CI3 SEAT
16	5104681X3	1	LEFT AND RIGHT HAND ARM ASSEMBLIES, CI3 SEAT
17	5104681X4	1	ARM PAD, C13 SEAT
18	5104681X5	1	TRACK KIT, CI3 SEAT
19	5108189X1	1	BACK COVER ONLY FOR FIXED CI3
20	5108188X1	1	CUSHION COVER FOR CI3
21	5108188X1	1	CUSHION COVER FOR CI3
22	5108190X1	1	ARM PAD ASSEMBLY
23	5104681X5	1	TRACK KIT, CI3 SEAT

5300534



Steering & Suspension Group

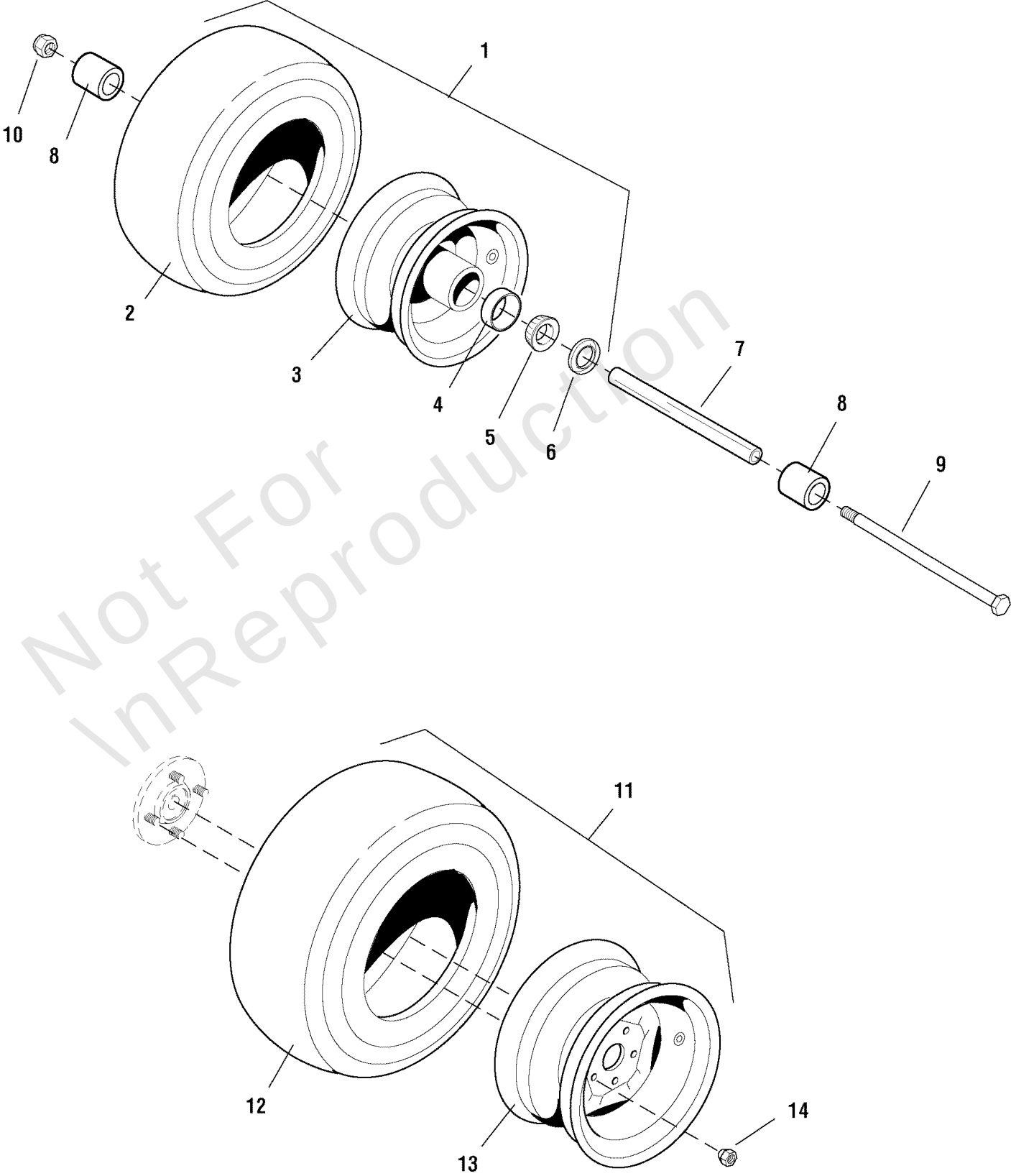
REF NO	PART NO	QTY	DESCRIPTION
1	5100838	1	SEAL, 1.983" X 1.500 X .188
2	5020095	2	GREASE FITTING, 1/4-28 STRAIGHT
3	5021541	2	BUSHING, FLANGE
4	5025281	2	WASHER, 5/8" SAE
5	5025019X24	1	BOLT, 5/8-11 x 3" GD5 CZ
6	5025282	1	NUT, 5/8-11 HEX JAM NYLON LOCK
7	5025155	2	WASHER, 5/16" SAE
8	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE
9	5025011X6	2	BOLT, 5/16-18 X 3/4 GD5
10	5020602	1	COLLAR, 1" SPLIT
11	5025013X12	1	BOLT, 3/8-16 X 1-1/2" GD5 CZ
12	5025096	1	NUT, 3/8-16 HEX NYLON LOCK
13	5025013X28	1	BOLT, 3/8-16 X 3-1/2" GD5 CZ
14	5025013X36	1	BOLT, 3/8-16 X 4-1/2" GD5 CZ
15	5025165	4	WASHER, 3/8" FENDER
16	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
17	5025018X14	2	BOLT, 1/2-20 X 1-3/4" GD8 CZ
18	5025173	2	WASHER, 1/2" SPLIT LOCK
19	5025018X10	4	BOLT, 1/2-20 X 1-1/4" GD5 CZ
20	5020823	2	BUSHING, FLANGE, 3/4 X 1
21	5025160	2	WASHER, 3/4" SAE
22	5025203X10	1	PIN, COTTER, 1/8" X 1-1/4
23	5021882	4	BEARING, ROLLER, 5/8" ID
24	5043652	1	WASHER, .64 X 3.00 X .14
25	5044627B	1	MOUNT, CHAIN ROLLER
26	5402373B	1	WELD, STEERING HANDLE - RED
27	5023383	1	SHOCK, SUSPENSION
28	5025104	1	NUT, 3/4-16 HEX SLOTTED
29	5100839	2	BEARING, TAPER ROLLER, 1.1417
30	5401698B	1	WELD, SWING ARM - RED
31	5042087	1	STEERING SHAFT WELDMENT
32	5100564	1	SPACER, 1.00 X 9.32 - TAPPED
33	5100563	1	SPACER, .39 X 1.00 X 1.13
34	5401696B	1	WELD, MOUNT, STEERING TIRE - RED
35	5100840	1	HUB ASSEMBLY
36	5021073	1	CAP, DUST
37	5020837	2	GRIP, FOAM 1" ID X 7.75" LONG
38	5010674	6	CHAIN, LINK CONNECTOR #40
39	5010673X33	2	#40 CHAIN 33 LINKS
40	5042090	2	ASSEMBLY, TURNBUCKLE
41	5010673X43	1	#40 CHAIN, 43 LINK
42	5022853	1	WRENCH, SPANNER, 7GA - ZP

Wheel & Tire Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900533

5300546



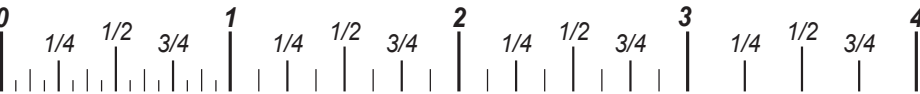
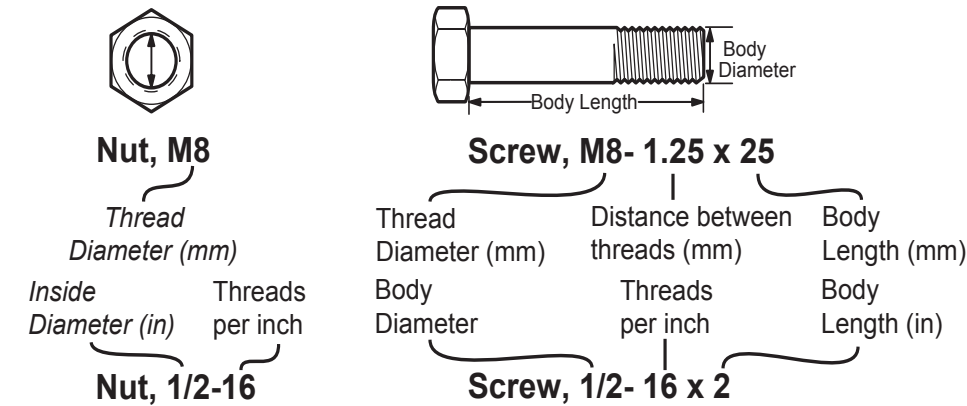
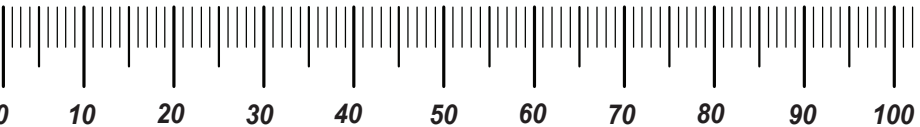
Wheel & Tire Group

REF NO	PART NO	QTY	DESCRIPTION
1	5021150S	1	TIRE, 18 X 7.5 X 8 4 PLY
2	5021215	1	TIRE REAR, 18 X 7.5 X 8, RUBBER
3	5021216S	1	WHEEL ASSEMBLY, 8 X 3.75, SILVER
4	5020883	2	BEARING CUP
5	5020884	2	BEARING, TAPERED ROLLER
6	5020885	2	GREASE SEAL
7	5042314	1	STEERING TIRE AXLE
8	5042315	2	SPACER, 1.01 X 1.25 X 2.06
9	5025019X76	1	BOLT, 5/8-11 X 9-1/2", GD5 PLN
10	5025103	1	NUT, 5/8-11 HEX SIDE LOCK
11	5100674	2	TIRE, 22 X 10 X 10 ASSEMBLY # 37809
12	5100006X1	1	TIRE, 22 X 10 X 10, RUBBER
13	5100674X2	1	WHEEL ASSEMBLY, SILVER
14	5020601	10	NUT, 1/2-20, FOR WHEEL BOLT SILVER

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).

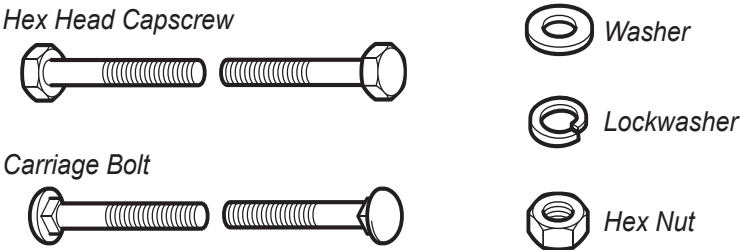
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

