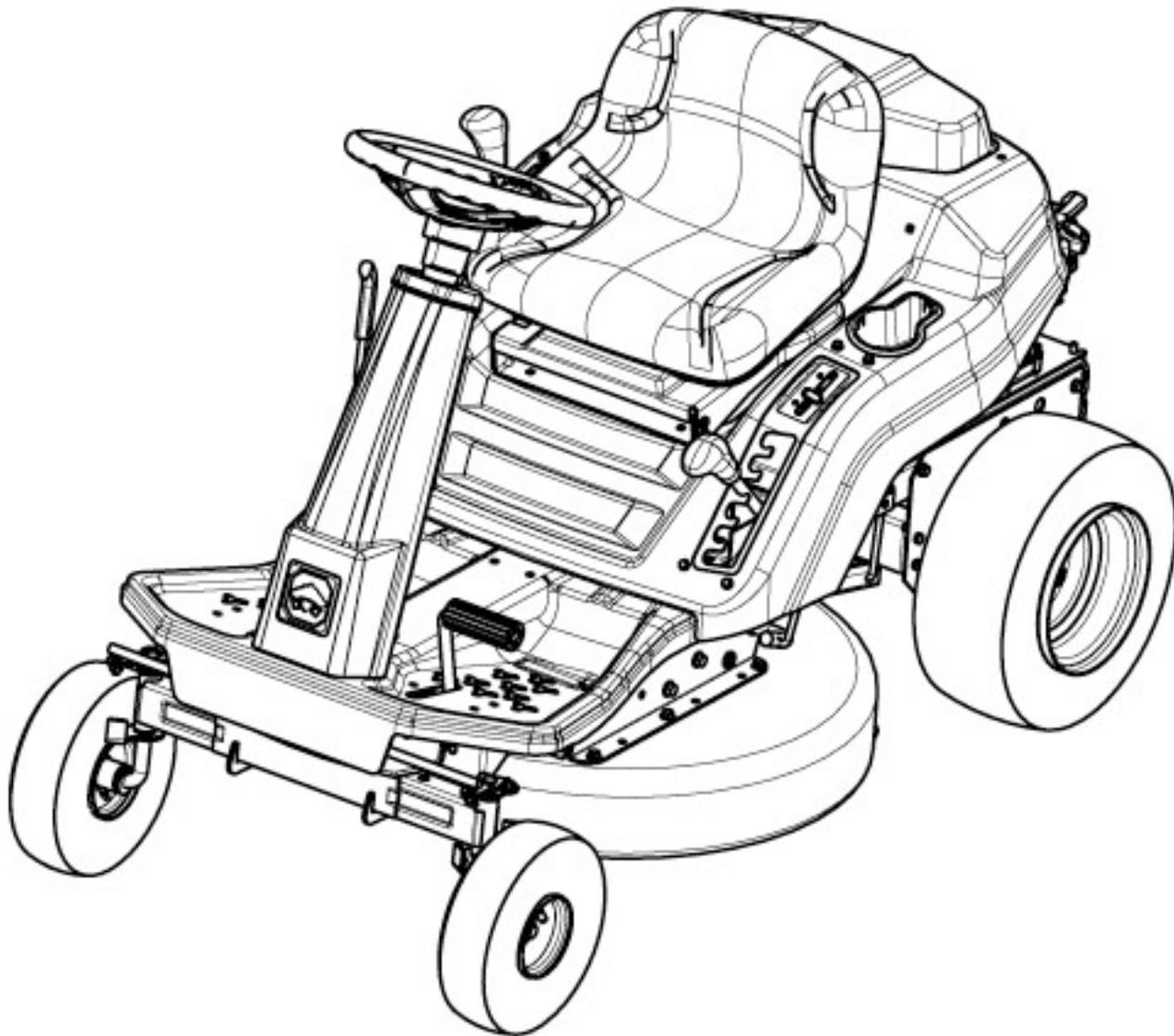




Parts Manual

Mfg. No: 7800950-01
RE110, 28" 11.5 Gross TP Disc Drive
Rear Engine Rider RE Series



1692125 - Cart, Dump (10 Cu. Ft.).....
7600199 - Grass Catcher, Single.....
7600192 - Grass Catcher, Twin.....
1696324 - Cover, Tractor.....
7600071 - Cover, Tractor.....
7600197YP - Headlight Kit.....
7104196BZYP - High Lift Blade, 28".....

Not For
Reproduction

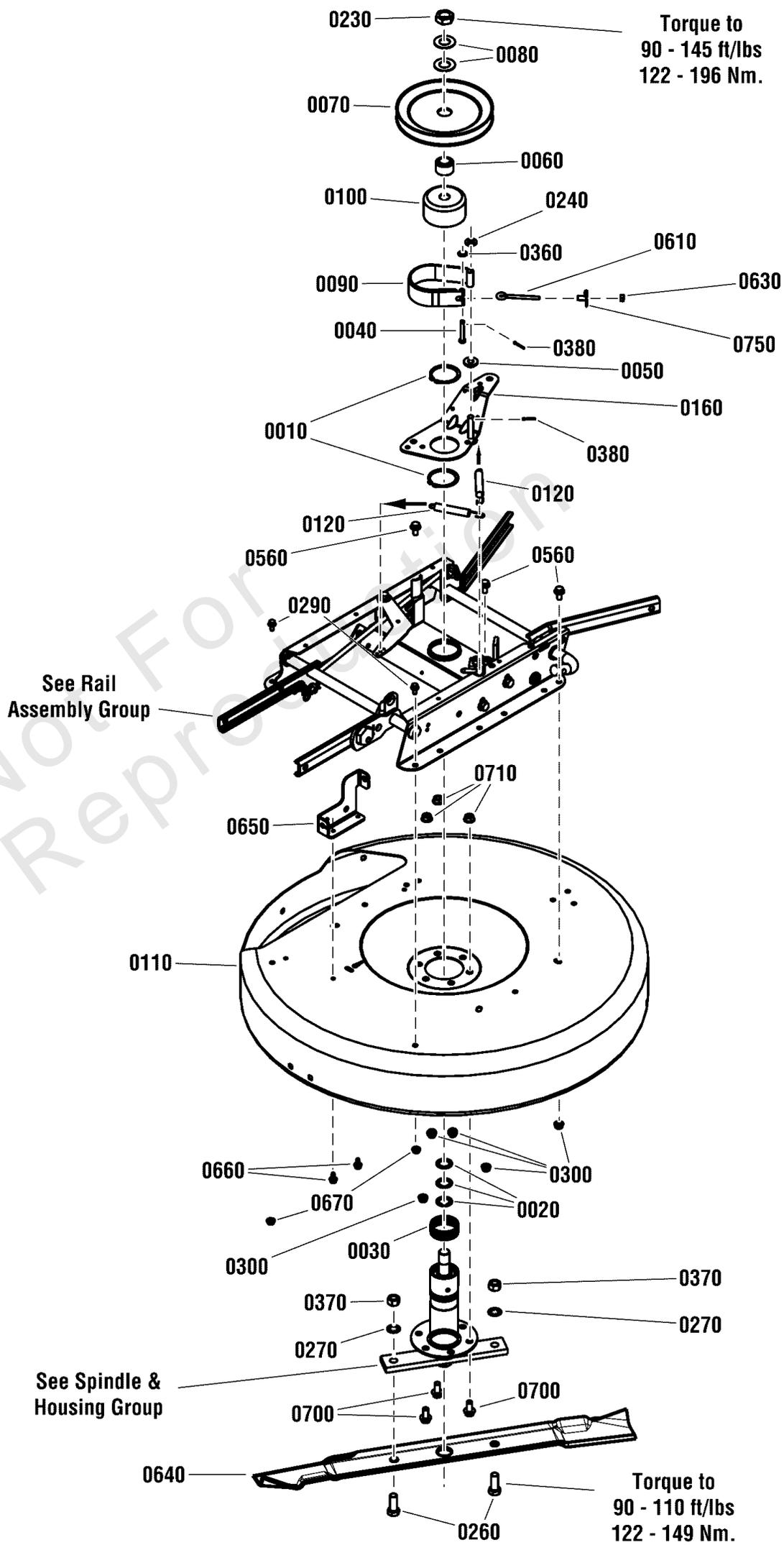
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28" Deck Assembly, RER Mulcher

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 7800950-01



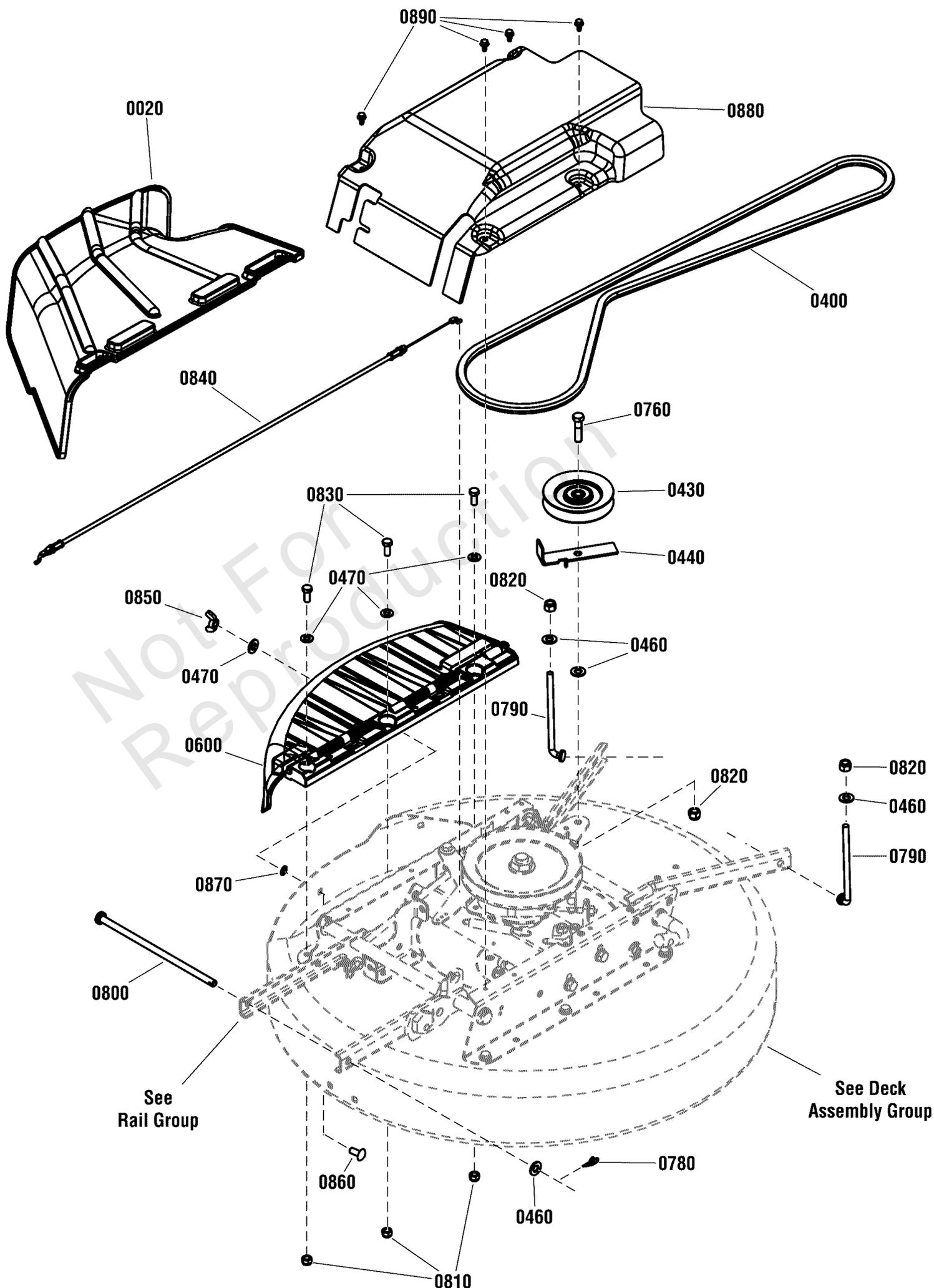
28" Deck Assembly, RER Mulcher

| REF NO | PART NO | QTY | DESCRIPTION |
|--------|-------------|-----|--|
| 0010 | 7010740YP | 2 | RING, 2 External Retaining |
| 0020 | 7010935SM | 3 | WASHER, .77 x 1.13 x .06, Flat |
| 0030 | 7012670YP | 1 | RING, 2 ID x 3/4 High, Tolerance |
| 0040 | 7014304YP | 1 | PIN, 1/4 x 1-5/8 Clevis |
| 0050 | 7014314YP | 1 | SPACER, .31 I.D. x .39 O.D. x 1 Nylon |
| 0060 | 7015290YP | 1 | HUB, Pulley, PM |
| 0070 | 7018781YP | 1 | PULLEY, Deck Spindle, 6.95 OD |
| 0080 | 7032027SM | 2 | WASHER, 49/64x1-1/2x.06, Flat |
| 0090 | 7503086YP | 1 | ASSEMBLY, Brake Band, RER, 10.12 X 1.25" |
| 0100 | 7035378YP | 1 | DRUM, Brake Spindle (3 OD, 1.6 Tall) |
| 0110 | 7061970YP | 1 | KIT, Deck Replacement, Red, 28 w/Anti-Scalp |
| 0120 | 7036521YP | 2 | SPRING, Extension, 4 x 1/2 Diameter |
| 0160 | 706001 | 1 | WELDMENT, Idler Arm |
| 0230 | 7074467SM | 1 | NUT, 3/4-16 Hex Jam, GR 8 |
| 0240 | 703590 | 1 | WASHER, .406 |
| 0260 | 7090491YP | 2 | SCREW, 1/2-20 x 1-1/4 Hex Head Cap, GR5 |
| 0270 | 7090509YP | 2 | WASHER, 1/2 Internal Tooth Lock, BZ |
| 0290 | 7090584YP | 2 | BOLT, 1/4-20 x 1/2 Hex Flange Lock, GR 5, ZP |
| 0300 | 703409 | 9 | NUT, Serrated Lock Flange, 5/16-18 |
| 0360 | 703332 | 1 | WASHER, Flat, 1/4 |
| 0370 | 7091939YP | 2 | NUT, 1/2-20 Hex, GR 5 ZP |
| 0380 | 703312 | 2 | PIN, 3/32 X 3/4, GR5, Cotter, Zinc/Clear |
| 0560 | 703823 | 3 | BOLT, 5/16-18 x 5/8 Hex Flange lock, GR 5, YZ |
| 0610 | 7014302YP | 1 | EYE-BOLT, 1/4-20 x 2-7/8 ZP |
| 0630 | 703127 | 1 | NUT, 1/4-20, G5 Zinc/Clear |
| 0640 | 7016980BZYP | 1 | BLADE, 28" Mulcher |
| 0650 | 7301280BMYP | 1 | BRACKET, Blade Engagement Cable |
| 0660 | 704130 | 2 | SCREW, 1/4-20 X .500, Hex HD, Self-Tap, Zinc/Clear |
| 0670 | 703233 | 2 | NUT, 1/4-20 Hex Flange Lock, GR 5, Zinc/Clear |
| 0700 | 703955 | 3 | BOLT, 3/8-16X0.75, Serrated Flange |
| 0710 | 703333 | 3 | NUT, 3/8-16, Flanged Lock, GR5 |
| 0750 | 7106120YP | 1 | T-NUT, 1/4-20 (Bent End) |

28" Deck Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 7800950-01



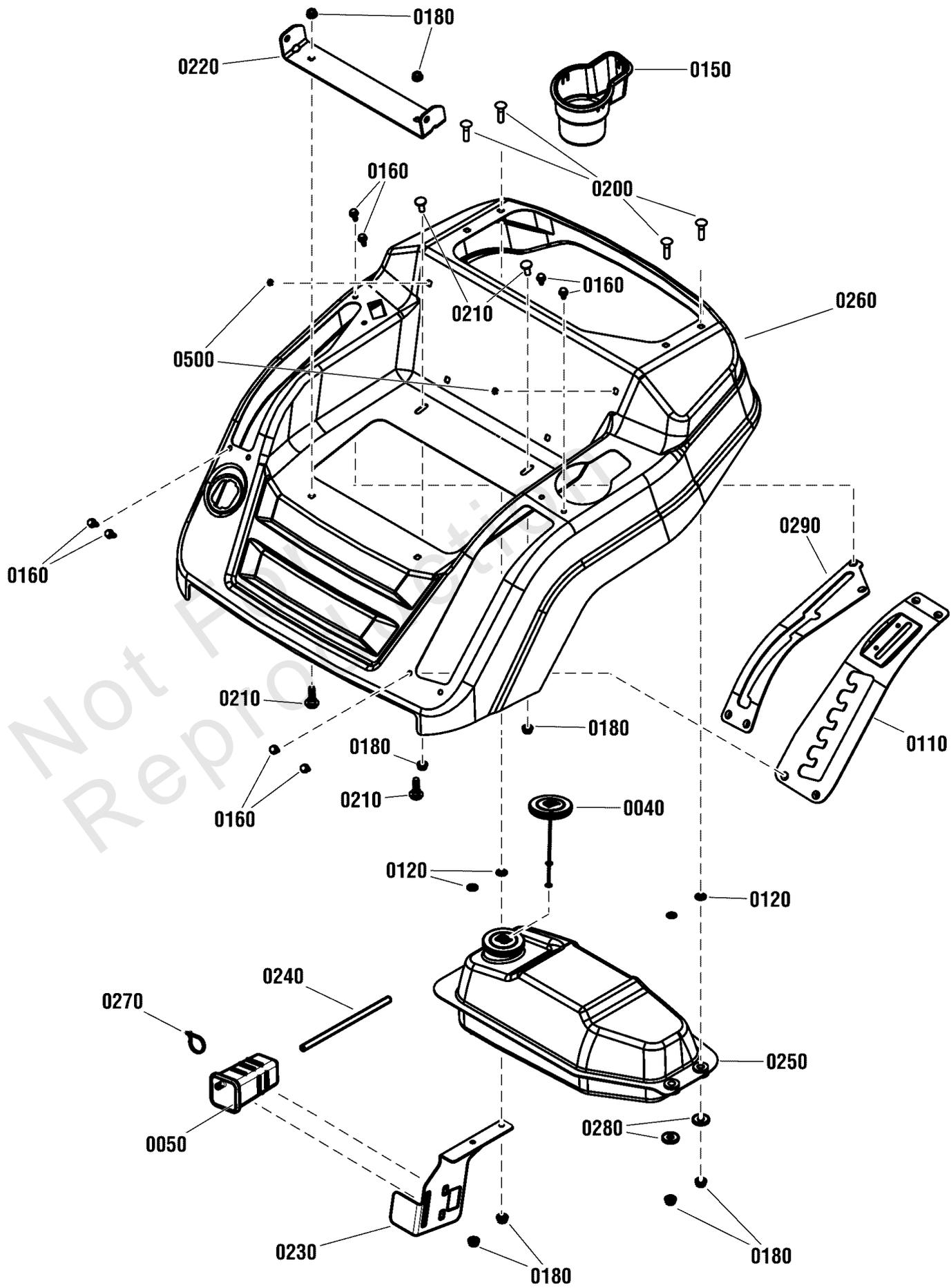
28" Deck Group

| REF NO | PART NO | QTY | DESCRIPTION |
|---------|-----------|-----|---|
| 0020 | 7105326YP | 1 | CHUTE, Side Discharge, 28"/33" |
| 0400 | 7022252YP | 1 | BELT, Spindle Drive (72.75 AA Section, Kevlar) |
| 0430 | 7029624YP | 1 | PULLEY, Seam Welded Idler (.375 ID, 4 OD) |
| 0440 | 7032111YP | 1 | RESTRICTOR, Belt |
| 0460 | 703590 | 4 | WASHER, .406 |
| 0470 | 703350 | 4 | WASHER, 5/16, Flat SAE, Zinc/Clear |
| 0600 | 7105691YP | 1 | ASSEMBLY, Mulching Cover, RER, 28" |
| 0600-10 | 7105688YP | 1 | COVER, Mulching, RER, 28 (Not Shown) |
| 0600-20 | 7105689YP | 1 | ROD, Chute .25 OD, 17.62 Long (Not Shown) |
| 0600-30 | 7103309YP | 2 | SPRING, Torsion, Rear Door (Not Shown) |
| 0600-40 | 704005 | 1 | NUT, 1/4, Push, BZ (Not Shown) |
| 0600-50 | 7105346YP | 1 | HINGE, Chute, RER, 28/33 (Not Shown) |
| 0760 | 703406 | 1 | SCREW, 3/8-16X1.50, Hex HD Cap, GR5, Zinc/Clear |
| 0780 | 703355 | 1 | PIN, 3/8 Cotter Self Locking, Zinc/Clear |
| 0790 | 706133 | 2 | ROD, Rear Deck Lift, 5.5 Long, 3/8-16 Threads |
| 0800 | 7105733YP | 1 | ROD, Front Deck Hangar, .38 Dia. X 9.16 Long |
| 0810 | 703115 | 3 | NUT, Flange Nylock, 5/16-18 |
| 0820 | 703117 | 3 | NUT, 3/8-16, Nylock, GR5, Zinc/Clear |
| 0830 | 703408 | 3 | SCREW, 5/16-18 x 7/8 Hex Head Cap, GR 5, Zinc/Clear |
| 0840 | 7105982YP | 1 | CABLE, Brake, 37.4 OPC |
| 0850 | 704320 | 1 | NUT, 5/16-18 Wing (Nylon Patch) |
| 0860 | 703185 | 1 | BOLT, Carriage, 5/16-18 X 3/4 |
| 0870 | 703297 | 1 | RETAINER, 5/16, GR5 Zinc/Clear |
| 0880 | 706172 | 1 | COVER, Deck, 28/33, RER |
| 0890 | 703054 | 4 | SCREW, Hex Washer Head, 1/4-20 x 5/8 |

Console & Gas Tank Group - 01 Series

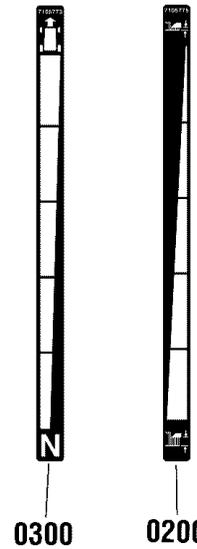
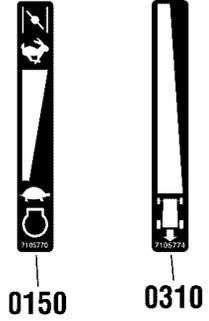
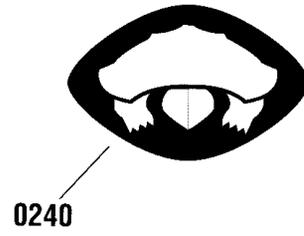
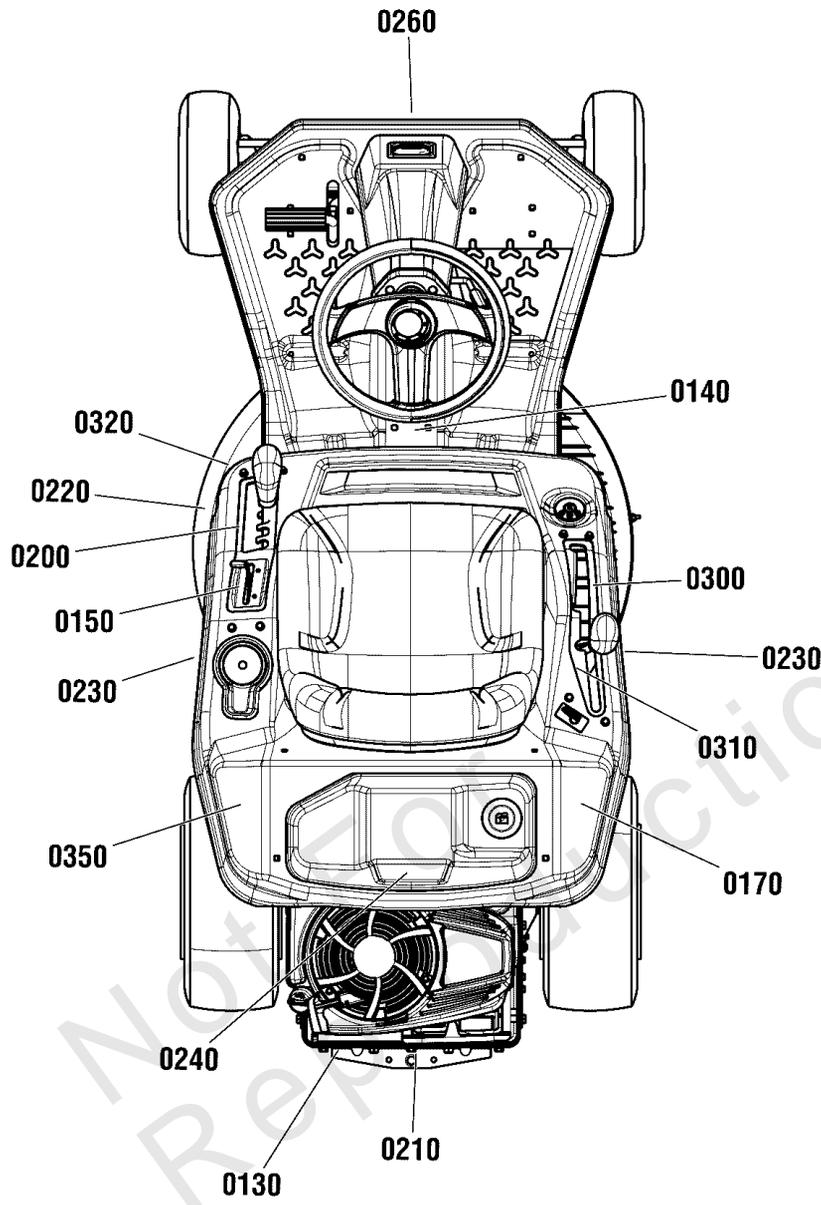
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 7800950-01

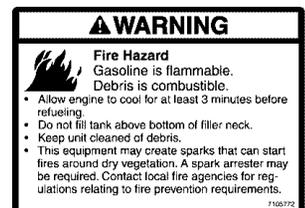
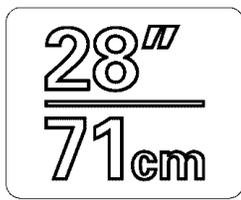
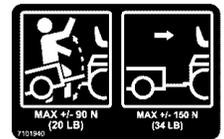


Console & Gas Tank Group - 01 Series

| REF NO | PART NO | QTY | DESCRIPTION |
|--------|-------------|-----|--|
| 0040 | 7105682YP | 1 | ASSEMBLY, Fuel Cap, Non-Vented |
| 0050 | 7104634YP | 1 | CANISTER, Carbon 140CC - RER |
| 0110 | 7301262BMYP | 1 | PLATE, HOC Detent |
| 0120 | 703297 | 4 | RETAINER, 5/16 X .625, Push Nut, GR 5, Zinc/Clear |
| 0150 | 7105766YP | 1 | CUP HOLDER |
| 0160 | 703953 | 8 | SCREW, Torx Pan Head Self-Tapping, 1/4-20 X 5/8, |
| 0180 | 703409 | 6 | NUT, Serrated Lock Flange, 5/16-18 |
| 0200 | 703446 | 4 | BOLT, 5/16-18 X 1.25, Carriage, GR5, Zinc/Clear |
| 0210 | 703185 | 2 | BOLT, Carriage, 5/16-18 X 3/4 |
| 0220 | 706334 | 1 | BRACKET, Seat Pivot, 12.41" W, 9.5" W .344" Sq Holes |
| 0230 | 7301425BMYP | 1 | BRACKET, Canister Mounting, RER |
| 0240 | 7106249YP | 1 | HOSE, Vapor, 5 MM ID X 9 MM OD X 7.75" |
| 0250 | 7106241YP | 1 | ASSEMBLY, Fuel Tank W/Cap, 1.96 Gal/7.4 L, RER |
| 0260 | 7301428DYP | 1 | CONSOLE, Seat/Controls, Mechanical, Red |
| 0270 | 7024649YP | 1 | WIRE TIE, 11", Black Nylon |
| 0280 | 703298 | 2 | WASHER, 5/16 |
| 0290 | 7301402BMYP | 1 | PLATE, Shift Detent |
| 0500 | 1705115SM | 2 | PLUG, Hole (for .344 Square Hole) |



RE110



Decals

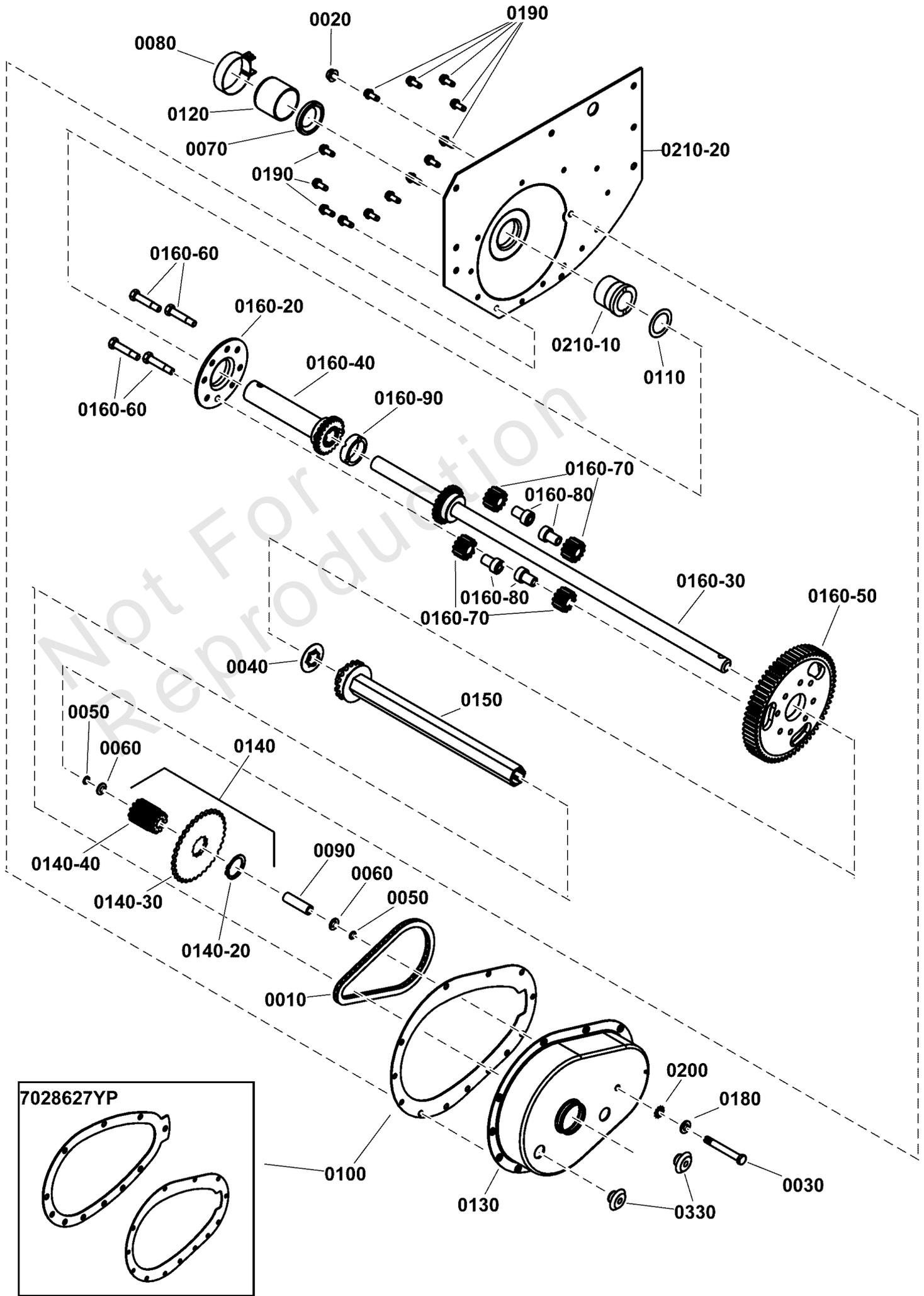
| REF NO | PART NO | QTY | DESCRIPTION |
|--------|-----------|-----|--|
| 0130 | 1758059YP | 1 | DECAL, EVAP, 50 State |
| 0140 | 7105769YP | 1 | DECAL, Warning/Danger |
| 0150 | 7105770YP | 1 | DECAL, Engine Speed |
| 0170 | 7105772YP | 1 | DECAL, Fuel Warning |
| 0200 | 7105775YP | 1 | DECAL, HOC |
| 0210 | 7101940YP | 1 | DECAL, Weight Limitation |
| 0220 | 7101665YP | 2 | DECAL, Danger Do Not Operate W/O Deflector |
| 0230 | 1755403YP | 2 | DECAL, Snapper Logo, 1.8" x 7.23" |
| 0240 | 1752570YP | 1 | DECAL, Snapper Turtle |
| 0260 | 1739983YP | 1 | DECAL, Snapper, 2.13" x 8.5" |
| 0300 | 7105773YP | 1 | DECAL, Forward Speed |
| 0310 | 7105774YP | 1 | DECAL, Reverse Speed |
| 0320 | 1755710YP | 1 | DECAL, 28IN/71CM, Mower Width |
| 0350 | 7106369YP | 1 | DECAL, Model, RE110 |

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Differential Assembly

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 7800950-01



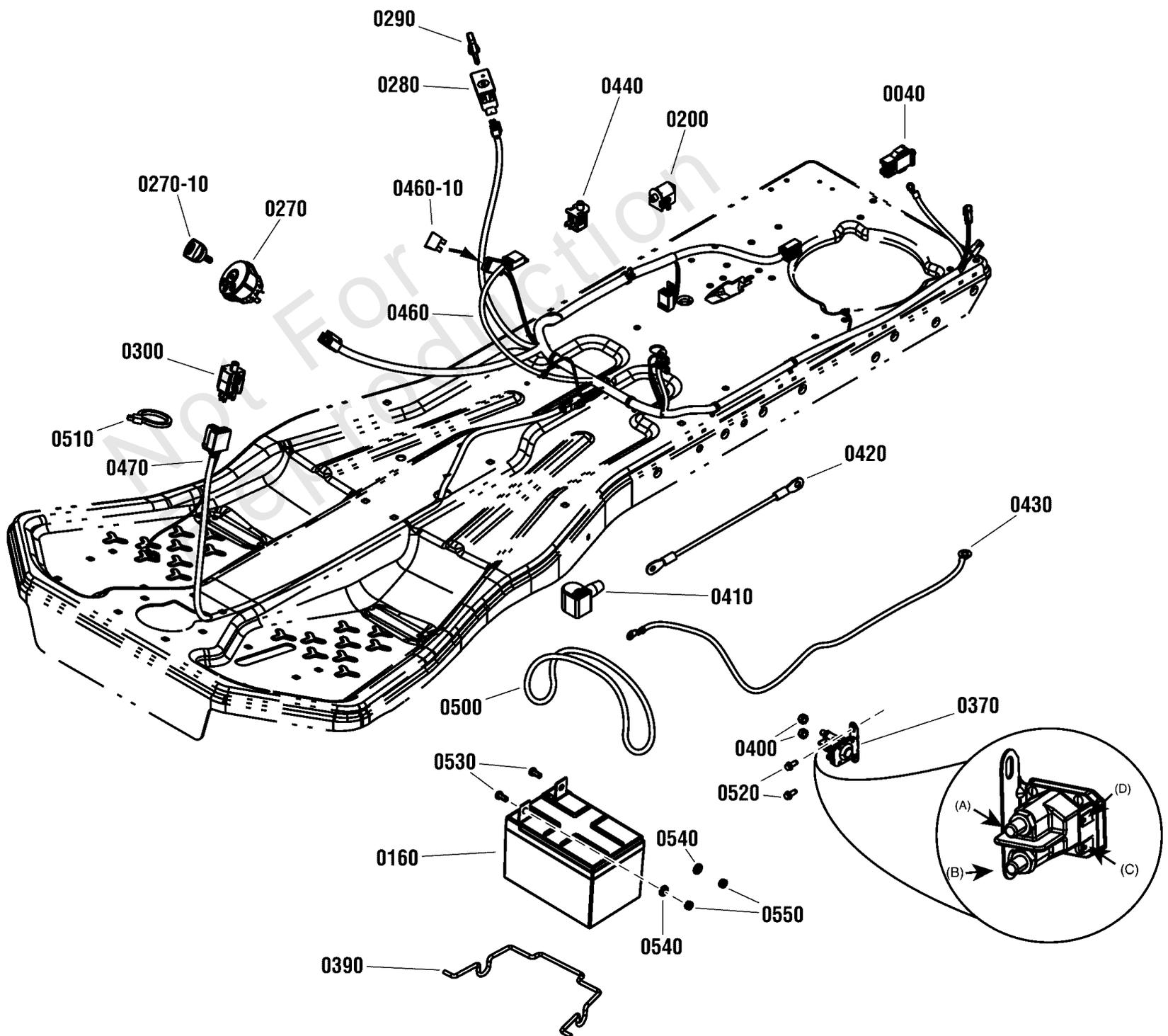
Differential Assembly

| REF NO | PART NO | QTY | DESCRIPTION |
|---------|-----------|-------|---|
| 0010 | 7010941YP | 1 | CHAIN, 46 Pitch (#35 Endless) |
| 0020 | 703123 | 1 | NUT, 5/16-24 Hex Flange Lock, ZP |
| 0030 | 7011042YP | 1 | SCREW, 5/16-24 x 2-5/8 Hex Head Cap, ZP |
| 0040 | 7011072YP | 1 | WASHER, Thrust, (Hex Flanged) |
| 0050 | 7011156YP | 2 | O-RING, 5/16" |
| 0060 | 7011782YP | 2 | WASHER, 5/16" X 5/8" X .05", Belleville |
| 0070 | 7011817YP | 1 | SEAL, 1.22" ID x 1.875" OD |
| 0080 | 7012332YP | 1 | CLAMP, 2" ID |
| 0090 | 7021128YP | 1 | SPACER, .50 OD X .031 ID X 1.75 Long, Heat Treated |
| 0100 | 7028762YP | 1 | KIT, Gasket |
| 0110 | 7031079YP | 1 | WASHER, Thrust (1.37 ID, 1.625 OD) |
| 0120 | 7031732YP | 1 | CAP, Seal 1.0" ID x 1.67" OD |
| 0130 | 7037279YP | 1 | CASE, Transmission |
| 0140 | 7050257YP | 1 | ASSEMBLY, Gear & Sprocket |
| 0140-20 | 7010965YP | 1 | RING, 1-3/16 External Retaining |
| 0140-30 | 7021129YP | 1 | SPROCKET, 34T, 3/8P |
| 0140-40 | 7200128YP | 1 | GEAR, 11 Tooth, 10 Pitch, PM |
| 0150 | 7051584YP | 1 | ASSEMBLY, Drive Hex Tube 13.2" Long |
| 0160-20 | 7038067YP | 1 | PLATE, Differential, Heat Treated (8 holes) |
| 0160-30 | 7075479YP | 1 | KIT, 23 Tooth Long Axle & Spacer (Includes 7047763 Axle & Spacer 7074431) |
| 0160-40 | 7600137YP | 1 | KIT, Short Axle Assembly, 23T |
| 0160-50 | 7021158YP | 1 | GEAR, 63 Tooth 10 Pitch (4 Hole) |
| 0160-60 | 7012333YP | 4 | BOLT, 5/16-24 x 1-5/8 Hex Nylock, G5, Black |
| 0160-70 | 7021127YP | 4 | GEAR, Differential Pinion (12T, 12P) |
| 0160-80 | 7022115YP | 4 | SPACER, Pinion |
| 0160-90 | 7074431YP | 1 | SPACER, Differential (1.25" ID x .425 Wide) |
| 0180 | 703350 | 1 | WASHER, 5/16, Flat SAE, Zinc/Clear |
| 0190 | 703054 | 13 | SCREW, Hex Washer Head, 1/4-20 x 5/8 |
| 0200 | 703138 | 1 | WASHER, External Lock, 5/16 |
| 0210-10 | 7012296YP | 1 | BEARING, Axle, 1.126 ID, 1.626 OD, PM |
| 0210-20 | 7301301YP | 1 | FENDER, RH, 1.615 Hole, RER-RE |
| 0330 | 7011024YP | 2 | PLUG, 3/4" |
| 0380 | 7061017YP | 1 Qt. | GREASE, "00" (Not Shown) |

Electrical Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 7800950-01



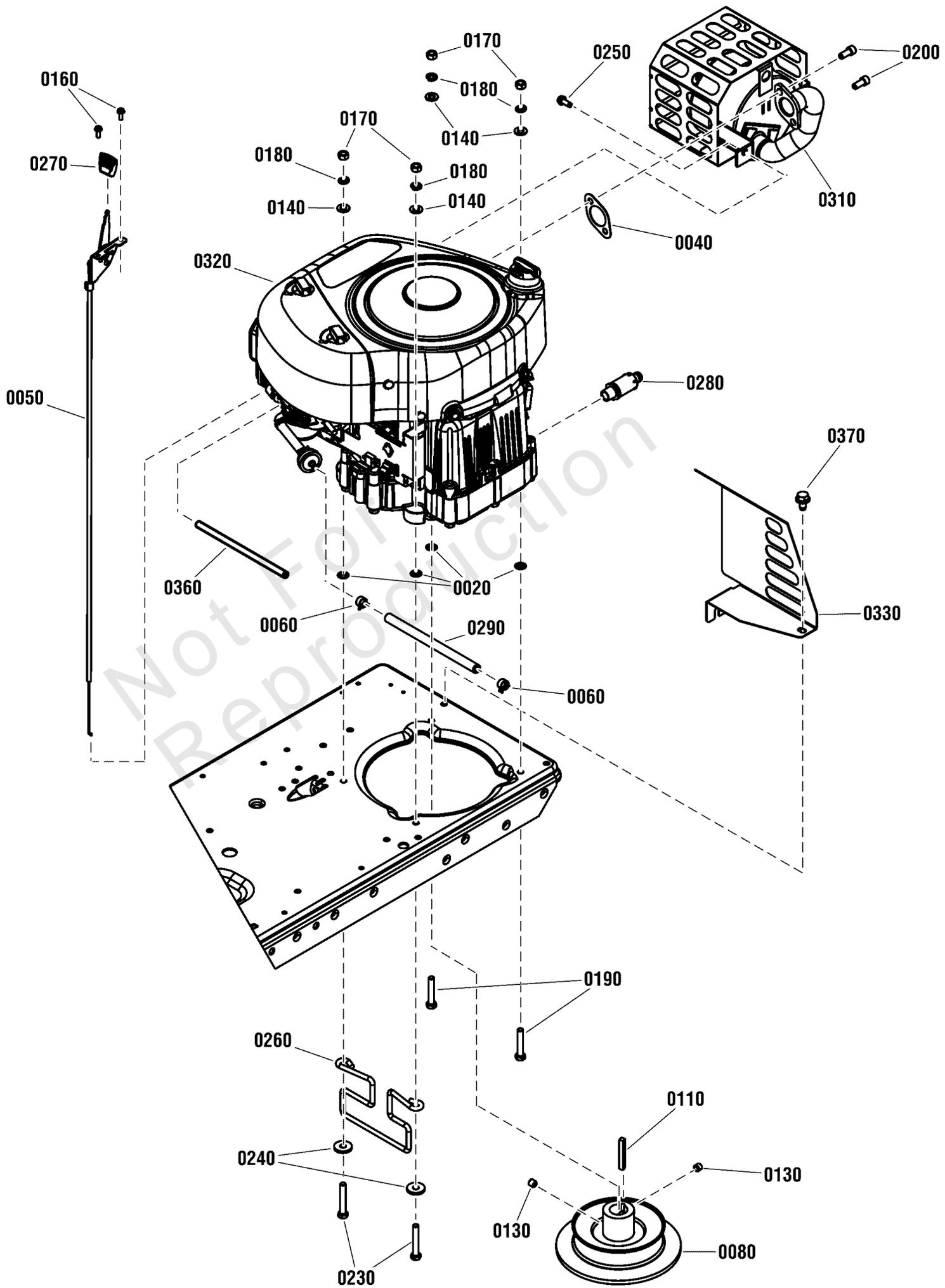
Electrical Group

| REF NO | PART NO | QTY | DESCRIPTION |
|---------|-----------|-----|--|
| 0040 | 7022886 | 1 | SWITCH, DP NO/NC SNAP-IN |
| 0160 | 7600188YP | 1 | BATTERY, 12V 20HR: 190CCA, Sealed (3.9" W, 5.9" L, 4 to 4.7" H)(Includes Cable Attachment Hdwe.) |
| 0200 | 1732004SM | 1 | SWITCH, Push Button, (NO, Black) |
| 0270 | 7106169YP | 1 | SWITCH, Ignition, 3 Position (Delta)(Without Key) |
| 0270-10 | 7106172YP | 1 | KEY, Ignition Switch - Pack of 2, CE/CAN |
| 0280 | 1726556SM | 1 | SWITCH, Reverse Mow Option Module (Without Key) |
| 0290 | 1726557SM | 1 | KEY, RMO Module (Yellow) |
| 0300 | 1751449YP | 1 | SWITCH, Plunger, Snap In (NO/NC/NC) |
| 0370 | 1755381YP | 1 | SOLENOID, 12V, L-Bracket, 2-Spade |
| 0390 | 7105788YP | 1 | BRACE, Battery |
| 0400 | 2860750SM | 2 | NUT, 5/16-24 Hex Lock, Keps, YZ |
| 0410 | 7105082YP | 1 | BOOT, Insulator |
| 0420 | 1752685YP | 1 | CABLE, Battery Positive, Red (#8 x 10" Long, 1/4" & 5/16" Ring Terminals) |
| 0430 | 7105875YP | 1 | WIRE, Negative, 8GA X 27.5, Black |
| 0440 | 7023354YP | 1 | SWITCH, Seat, Push Button (NC) |
| 0460 | 706329 | 1 | WIRE HARNESS, Main, RER, 11.5HP/13.5HP |
| 0460-10 | 7023653YP | 1 | FUSE, 20 Amp |
| 0470 | 7105697YP | 1 | HARNESS, Blade Engage, 41" |
| 0500 | 1665872SM | 1 | STRAP, Rubber Battery, .19 SQ, 7.88 OD, Black |
| 0510 | 703586 | 1 | TIE, 7, Self Locking |
| 0520 | 703054 | 2 | SCREW, Hex Washer Head, 1/4-20 x 5/8 |
| 0530 | 703338 | 2 | SCREW, 1/4-20 X 0.625, Hex Head Cap, GR5, Zinc/Clear |
| 0540 | 703332 | 2 | WASHER, Flat, 1/4 |
| 0550 | 703954 | 2 | NUT, Centerlock, 1/4-20, GR5 |

Engine Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 7800950-01



Engine Group

| REF NO | PART NO | QTY | DESCRIPTION |
|--------|----------------|-----|---|
| 0010 | 703890 | 1 | KEY, 1/4 Square x 2 Long |
| 0020 | 703297 | 4 | RETAINER, 5/16 X .625, Push Nut, GR 5, Zinc/Clear |
| 0040 | 7015352SM | 1 | GASKET, Exhaust |
| 0050 | 7105917YP | 1 | ASSEMBLY, Throttle Control, 23.6" Long, 1.6" Throw |
| 0060 | 791850 | 2 | CLAMP, Hose |
| 0080 | 7072658YP | 1 | DRIVE DISC, Steel, (4.56 P.D., 5.75 O.D. Pulley) |
| 0130 | 7090132YP | 2 | SCREW, 3/8-16 x 3/8 Hex Recess Set |
| 0140 | 703350 | 4 | WASHER, 5/16, Flat SAE, Zinc/Clear |
| 0160 | 704060 | 2 | SCREW, 10-24 x 1/2" Hex Washer Self-Tap, Torx, ZC/CL |
| 0170 | 703331 | 4 | NUT, 5/16-24, Hex, GR5, Zinc/Clear |
| 0180 | 703116 | 4 | WASHER, .32 X .58 X .08, Split Lock, Zinc/Clear |
| 0190 | 7091513YP | 2 | SCREW, 5/16-24 X 1.75, Hex Head Cap, GR5, Zinc/Clear |
| 0200 | 7091738SM | 2 | SET SCREW, 5/16-18 x 3/4 Socket Head, GR8, BZ |
| 0230 | 704056 | 2 | SCREW, 5/16-24 X 2, Hex Head Cap, GR5, Zinc/Clear |
| 0240 | 703298 | 2 | WASHER, 5/16 |
| 0250 | 703054 | 1 | SCREW, Hex Washer Head, 1/4-20 x 5/8 |
| 0260 | 7105172BMYP | 1 | GUIDE, Belt, 1/4" Wire, 1.85" X 4.74" ID, 3.72" Tall, 5.74" Mount |
| 0270 | 7106008YP | 1 | KNOB, Molded Paddle, Black |
| 0280 | 7027972SM | 1 | ASSEMBLY, Oil Drain Valve, 2.775" Long |
| 0290 | 1734994SM | 1 | HOSE, Fuel, .25" ID, .5" OD, 8.50" LG, Low Perm |
| 0310 | 706121 | 1 | MUFFLER, W/Heat Shield |
| 0320 | 21R807-0008-G1 | 1 | * ENGINE, B&S Powerbuilt 11.5 Gross HP, Mod. 21R807-0008-G1 |
| 0330 | 7301135BZYP | 1 | SHIELD, Manifold, RER |
| 0360 | 7106046YP | 1 | HOSE, Vapor - 18" L |
| 0370 | 7091198SM | 1 | SCREW, 3/8-16 x 5/8" Hex Washer Self-Tap, BP |

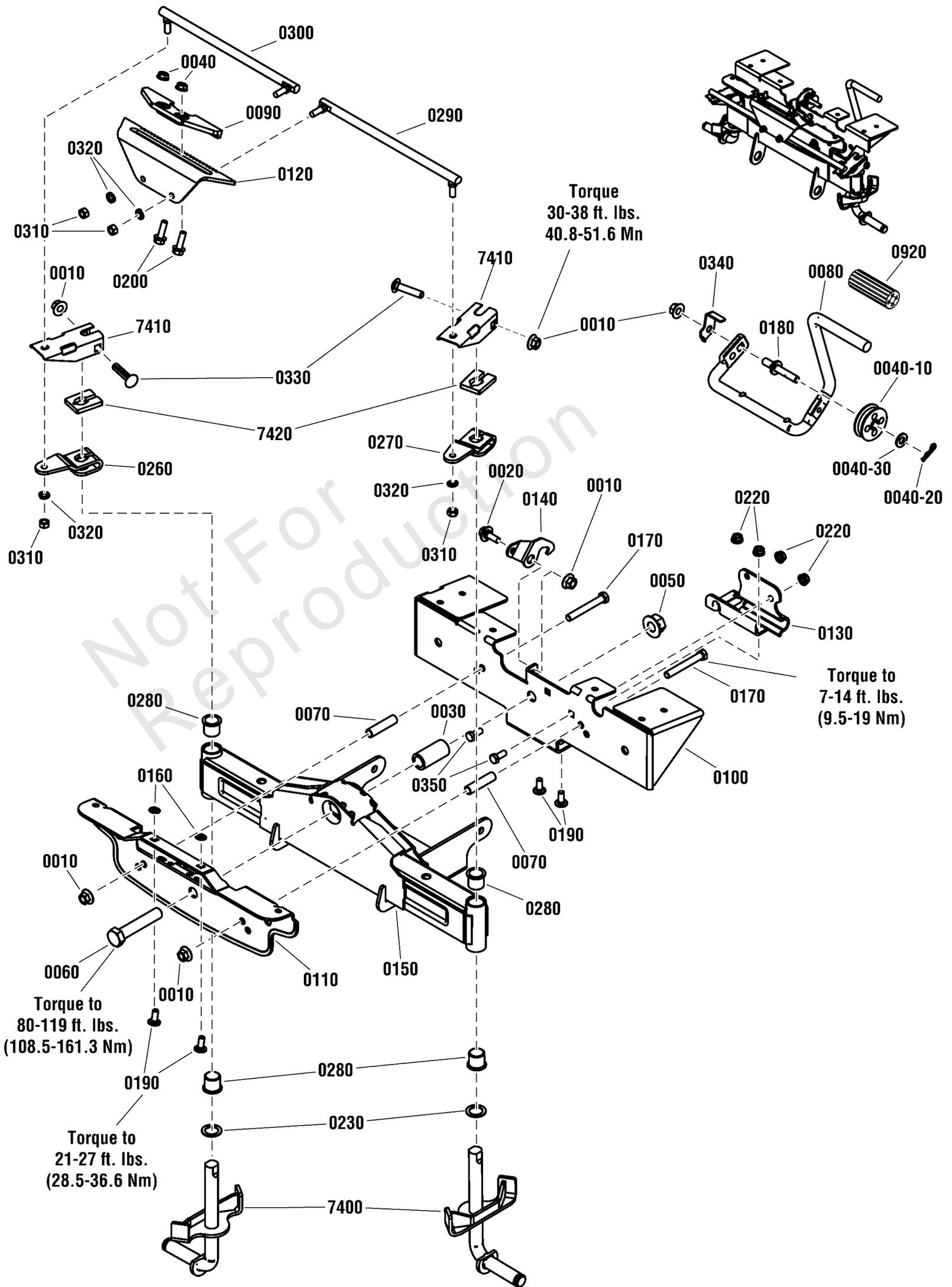
Footnotes:

Note: * Purchase engine parts from engine manufacture dealer.

Front Axle Group 11" Wheels

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 7800950-01



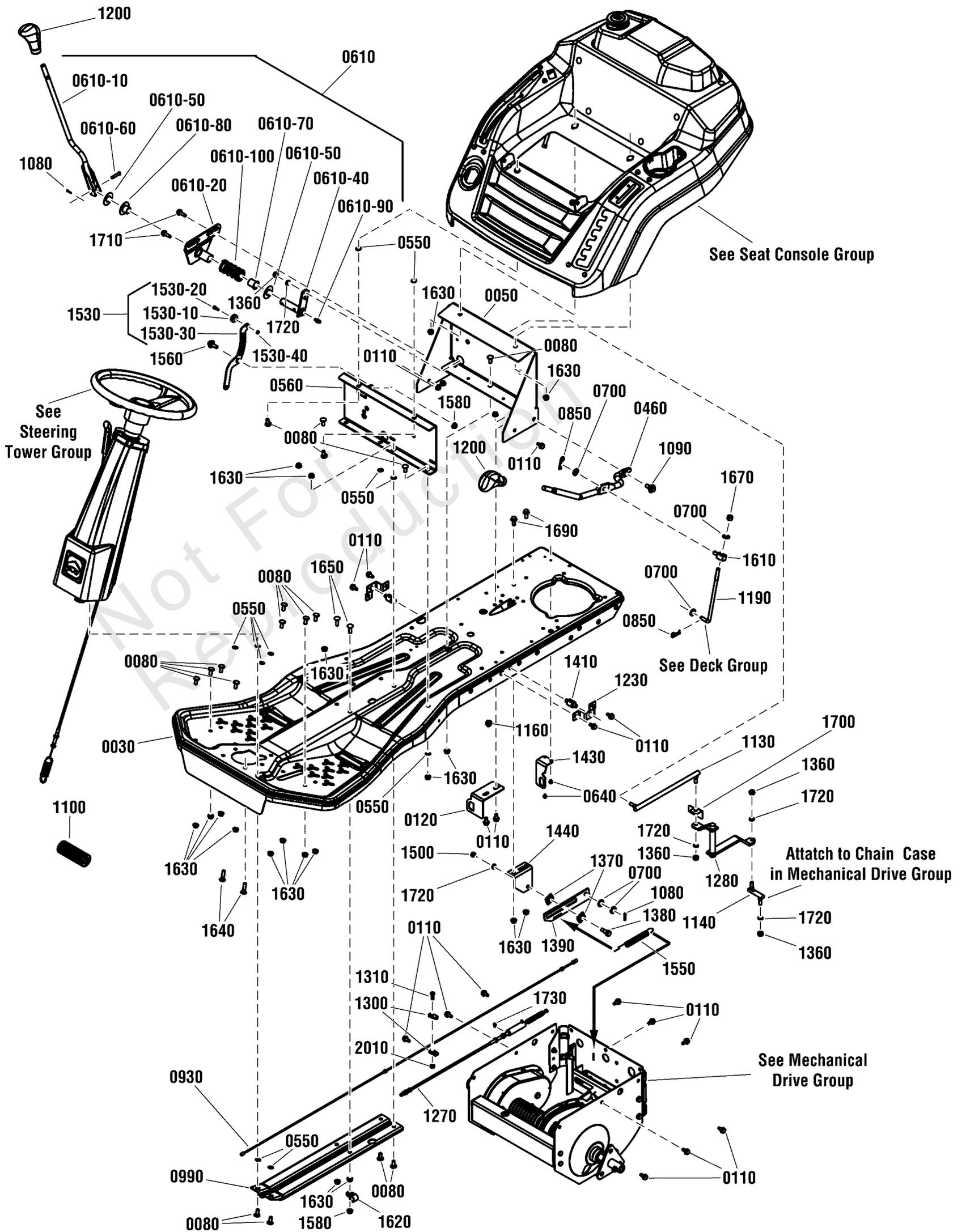
Front Axle Group 11" Wheels

| REF NO | PART NO | QTY | DESCRIPTION |
|---------|-------------|-----|--|
| 0010 | 703893 | 10 | NUT, Hex, Flange, Two Way Lock, 3/8-16 |
| 0020 | 1716654SM | 1 | BOLT, 5/16-18 X .75, .50 Shoulder G5 YEL |
| 0030 | 1738193YP | 1 | SPACER, .641 ID X.980 OD X 2.0 Long |
| 0040 | 704067 | 2 | NUT, Hex Flange, 5/16-18 |
| 0040-10 | 7023182 | 1 | SPOOL |
| 0040-20 | 703430 | 1 | PIN , 13 X 1.190, Cotter/Hair, Zinc/Clear |
| 0040-30 | 703590 | 1 | WASHER, .406 |
| 0050 | 2860646SM | 1 | NUT, 5/8-11, Hex Flange Two Way Lock, Yellow |
| 0060 | 2860744SM | 1 | CAPSCREW, Hex Head, 5/8-11 x 3 1/4 |
| 0070 | 7026595YP | 2 | SPACER, .495 OD X .390 ID X 2.038 Long |
| 0080 | 7105142YP | 1 | PEDAL, Brake |
| 0090 | 7105857YP | 1 | PLATE, Rack Guide |
| 0100 | 7301259YP | 1 | BRACKET, Rear Axle |
| 0110 | 7301432YP | 1 | BRACKET, Front Axle, Narrow |
| 0120 | 7301283YP | 1 | RACK, Steering |
| 0130 | 7301317YP | 1 | BRACKET, Brake Pedal |
| 0140 | 7301351YP | 1 | PLATE, Park Brake |
| 0150 | 1759979BZYP | 1 | WELDMENT, Axle |
| 0160 | 703297 | 2 | RETAINER, 5/16, GR5 Zinc/Clear |
| 0170 | 703133 | 2 | SCREW, 3/8-16 X 2.750, Hex Head Cap, GR5, Zinc/Clear |
| 0180 | 703956 | 1 | STUD, 3/8-16 X 2.625, Special Shoulder, GR5 |
| 0190 | 703185 | 4 | BOLT, Carriage, 5/16-18 X 3/4 |
| 0200 | 703410 | 2 | BOLT, Serrated Flange, 5/16-18 X 1.0 |
| 0220 | 703409 | 4 | NUT, Serrated Lock Flange, 5/16-18 |
| 0230 | 7010935SM | 2 | WASHER, .77 x 1.13 x .06, Flat |
| 0260 | 7301337BMYP | 1 | ARM, RH Steering |
| 0270 | 7301338BMYP | 1 | ARM, LH Steering |
| 0280 | 2176440SM | 4 | BUSHING, .765 ID, .885 OD, .877 LG, Flanged Nylon |
| 0290 | 7105916YP | 1 | LINK, Drag 10 Lg, 90° X 5/16-24 Ball Joints, LH |
| 0300 | 7105148YP | 1 | LINK, Shift, 10 Lg, 90° X 5/16-24 Ball Joints, RH |
| 0310 | 703331 | 4 | NUT, 5/16-24, Hex, GR5, Zinc/Clear |
| 0320 | 703116 | 4 | WASHER, .32 X .58 X .08, Split Lock, YZ |
| 0330 | 703879 | 2 | BOLT, Carriage 3/8-16X1-3/4 GR5 YZ |
| 0340 | 7301352YP | 4 | GUIDE, Clutch Cable |
| 0350 | 704287 | 2 | SCREW, 5/16-18 x 3/4 Hex Head Cap, GR 5, YZ |
| 0920 | 1727261SM | 1 | PEDAL, Brake Rubber |
| 7400 | 7400345BMYP | 2 | WELDMENT, Spindle 11" |
| 7410 | 7301438BMYP | 2 | BRACKET, Steering Arm Support |
| 7420 | 7301440BMYP | 2 | WASHER, Steering Arm |

Main Frame Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 7800950-01



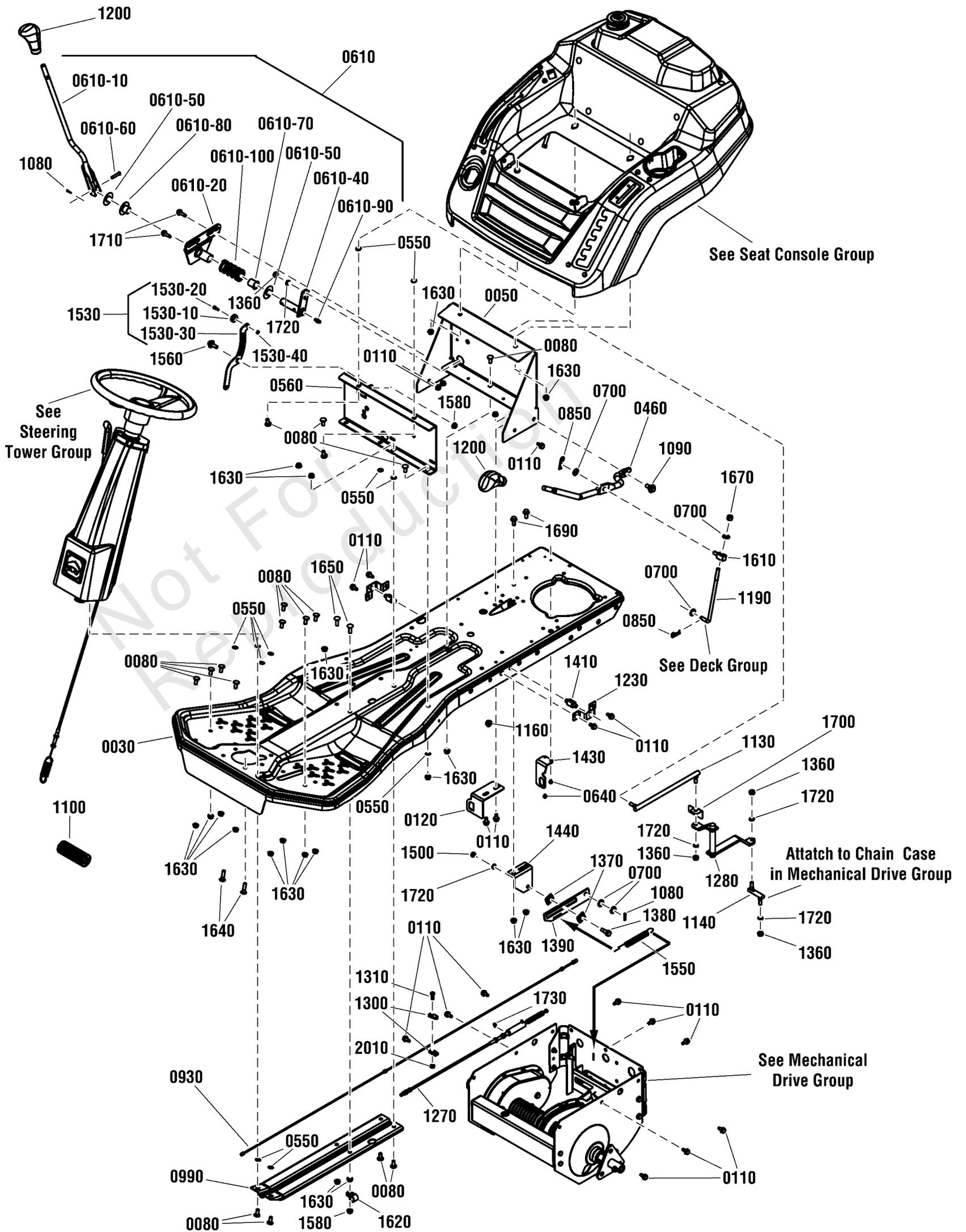
Main Frame Group

| REF NO | PART NO | QTY | DESCRIPTION |
|----------|-------------|-----|---|
| 0030 | ----- | 1 | MAIN FRAME, Mechanical, RER -(Not a Part Sale Item) |
| 0050 | 7301222BMYP | 1 | BRACKET, Console Support |
| 0080 | 703185 | 21 | BOLT, Carriage, 5/16-18 X 3/4 |
| 0110 | 703949 | 16 | SCREW, 5/16-18 X .625, Hex Washer Head, Thread Roll, Zinc/Clear |
| 0120 | 7301371BMYP | 1 | BRACKET, Reverse Stop Switch |
| 0460 | 7105822BMYP | 1 | ROD, Deck Lift, RER |
| 0550 | 703297 | 14 | RETAINER, 5/16, GR5 Zinc/Clear |
| 0560 | 7301330BMYP | 1 | BRACKET, Seat Hinge Support |
| 0610 | ----- | 1 | ASSEMBLY, Speed Selector (Reference) -(Not a Part Sale Item) |
| 0610-10 | 7400320YP | 1 | WELDMENT, Speed Select Lever |
| 0610-20 | 7400319YP | 1 | WELDMENT, Speed Select Bracket |
| 0610-40 | 7043201YP | 1 | WELDMENT, Shift Arm |
| 0610-50 | 7031036YP | 2 | WASHER, Thrust .76 ID, 1.62 OD, .025 Thick |
| 0610-60 | 7023914YP | 1 | PIN, .25 X 1.25, Clevis |
| 0610-70 | 7019246YP | 1 | BUSHING, 3/4 ID, 1 Flange (Nylon) |
| 0610-80 | 7019245YP | 1 | BUSHING, 3/4 ID, 1.62 Flange (Nylon) |
| 0610-90 | 7010817SM | 1 | FITTING, Lube (Straight press fit for .187 hole, no ball) |
| 0610-100 | 7010754 | 1 | SPRING, SHIFT DETENT |
| 0640 | 704061 | 2 | SCREW, #10-32 X 1/4, Hex Washer, Self-Tap, ZC/CL |
| 0700 | 703590 | 5 | WASHER, .406 |
| 0850 | 703300 | 2 | PIN, Hair, 3/32 x 1 5/8 |
| 0930 | 7105152YP | 1 | CABLE, Clutch, 56.75 Long (2 floating & 2 fixed furels) |
| 0990 | 7301349BMYP | 1 | BRACE, Frame, RER |
| 1080 | 703312 | 2 | PIN, 3/32 X 3/4, GR5, Cotter, Zinc/Clear |
| 1090 | 702315 | 1 | BOLT, 3/8-16 X .88, .513 Dia. Shoulder, GR2, Zinc/Clear |
| 1100 | 1727261SM | 1 | PEDAL, Brake Rubber |
| 1130 | 7105148YP | 1 | LINK, Shift, 10 Lg, 90° X 5/16-24 Ball Joints, RH |
| 1140 | 7011018YP | 1 | SHIFT LINK, Short (1.44 Long, 5/16-24 thread) |
| 1160 | 703893 | 1 | NUT, Hex, Flange, Two Way Lock, 3/8-16 |
| 1190 | 7105735YP | 1 | LINKAGE, 3/8 Deck Rod |
| 1200 | 7105767YP | 2 | KNOB, HOC/Speed Selector, 1/2 Hole |
| 1230 | 7301336BMYP | 2 | BRACKET, Rear Deck Lift |
| 1270 | 7105151YP | 1 | CABLE, Brake, Snap-in, 40.89" |
| 1280 | 7041384BMYP | 1 | WELDMENT, Shift Arm |
| 1300 | 7034174YP | 2 | CONNECTOR, Cable (Single Part) |
| 1310 | 703925 | 1 | SCREW, 1/4-20 x 3/4 Hex Head Cap, GR 5, Zinc/Clear |
| 1360 | 703331 | 4 | NUT, 5/16-24, Hex, GR5, Zinc/Clear |
| 1370 | 7014663YP | 2 | SLIDE HALF |
| 1380 | 703428 | 1 | BOLT, 5/16-18 x .530 Shoulder, GR 2, Zinc/Clear |
| 1390 | 7047190BMYP | 1 | SLIDE, Drive Support |
| 1410 | 7105736YP | 2 | SWIVEL, .390 Dia., Thru Hole |
| 1430 | 7073735YP | 1 | BRACKET, Switch |
| 1440 | 7047189BMYP | 1 | BRACKET, Drive Support |
| 1500 | 703465 | 1 | NUT, 5/16-18, GRB, Zinc/Clear |
| 1530 | ----- | 1 | ASSEMBLY, OPC Roller (Reference) -(Not a Part Sale Item) |
| 1530-10 | 7106025YP | 1 | ROLLER, .265 X 1.312 X .344 |
| 1530-20 | 703960 | 1 | BOLT, 10-24 X .750, Shoulder, GR8, Zinc/Clear |
| 1530-30 | 7301367BMYP | 1 | PLATE, Roller OPC |
| 1530-40 | 7091267SM | 1 | NUT, 10-24, Hex Center Lock, BZ |

Main Frame Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 7800950-01



Main Frame Group

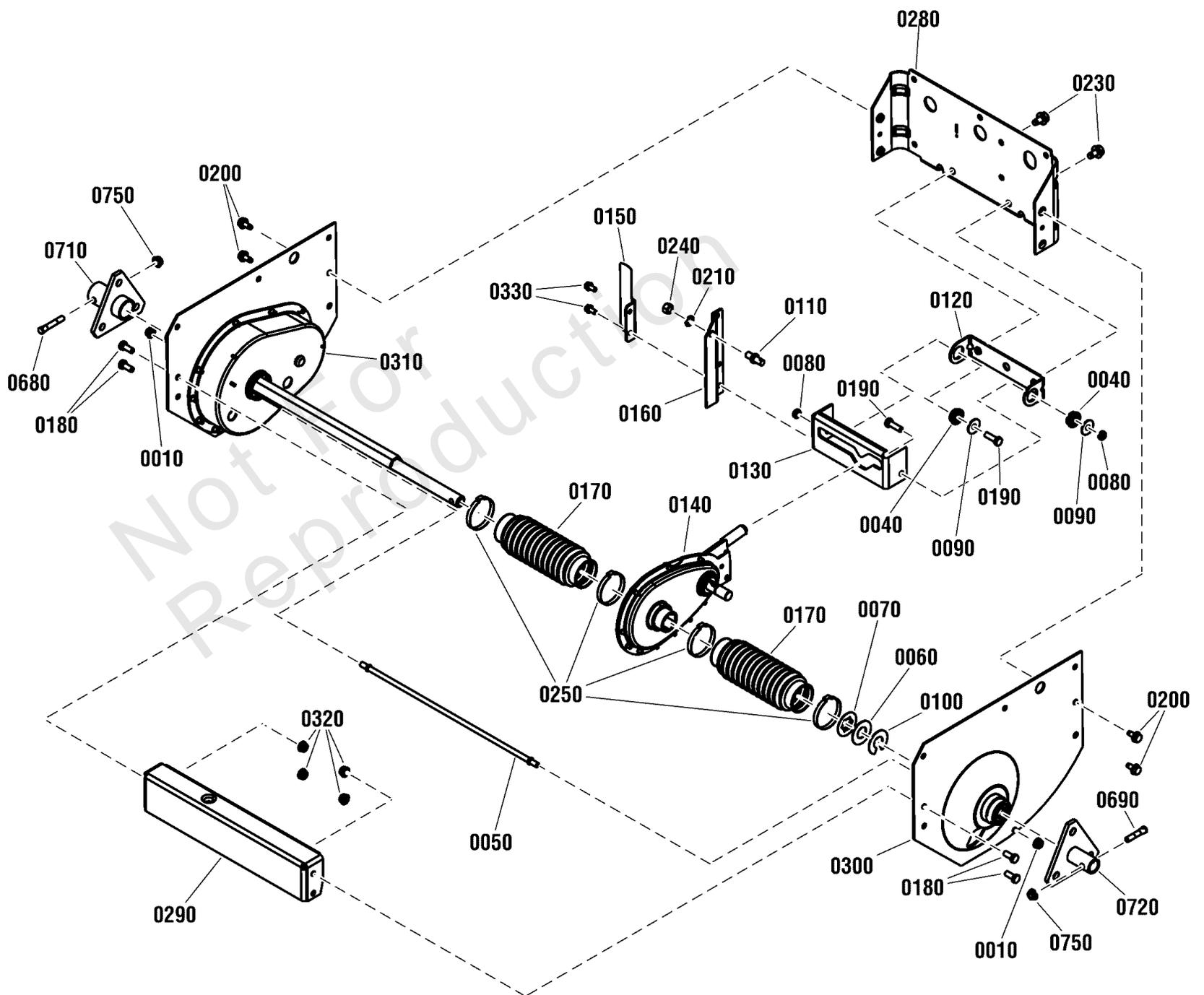
| REF NO | PART NO | QTY | DESCRIPTION |
|--------|-----------|-----|---|
| 1550 | 7013885YP | 1 | SPRING, Clutch / Brake |
| 1560 | 1716654SM | 1 | BOLT, 5/16-18 X 0.75, .50 Shoulder G5 YEL |
| 1580 | 704067 | 3 | NUT, Hex Flange, 5/16-18 |
| 1610 | 7072495SM | 1 | SWIVEL, 3/8 W/ Thru Hole, YZ |
| 1620 | 7900020SM | 2 | CLIP, Harness, 5/8 |
| 1630 | 703409 | 19 | NUT, Serrated Lock Flange, 5/16-18 |
| 1640 | 703446 | 2 | BOLT, 5/16-18 X 1.25, Carriage, GR5, Zinc/Clear |
| 1650 | 703483 | 2 | BOLT, 5/16-18 X 1 Carriage, GR5, Zinc/Clear |
| 1670 | 703117 | 1 | NUT, 3/8-16, Nylock, GR5, Zinc/Clear |
| 1690 | 703354 | 2 | SCREW, Flange, Whiz-Lock, 5/16-18 X 3/4 |
| 1700 | 7301370YP | 1 | PADDLE, Reverse Switch |
| 1710 | 704146 | 2 | SCREW, 5/16-18 X 1.0, Hex Washer Head Self-Tap, ZC/CL |
| 1720 | 703116 | 5 | WASHER, .32 X .58 X .08, Split Lock, YZ |
| 1730 | 7012313SM | 1 | RETAINING RING, .375, External |
| 2010 | 703954 | 1 | NUT, Centerlock, 1/4-20, GR5 |

Not For Reproduction

Mechanical Drive Assembly RER

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 7800950-01



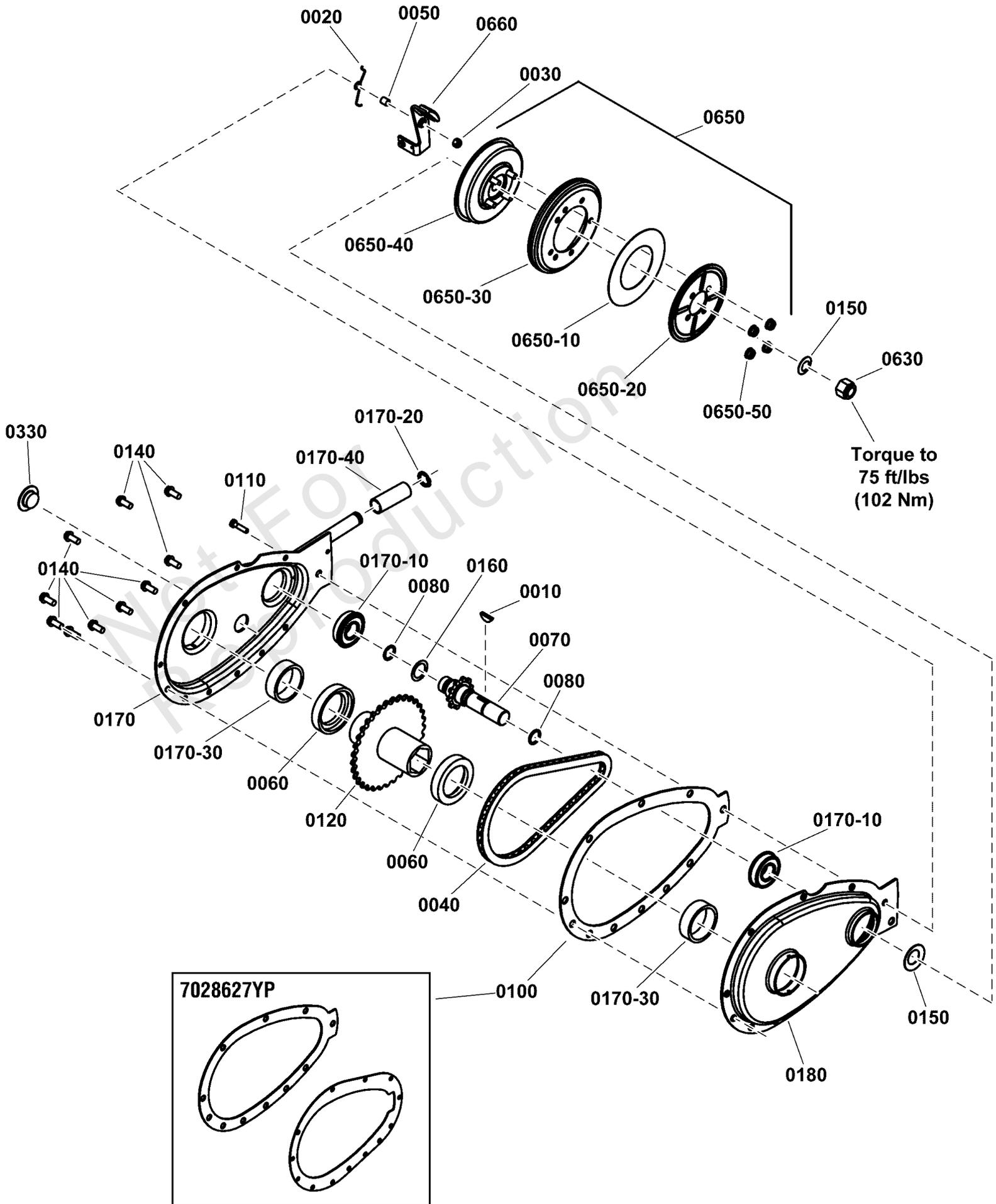
Mechanical Drive Assembly RER

| REF NO | PART NO | QTY | DESCRIPTION |
|---------|-----------|-----|--|
| 0010 | 703123 | 2 | NUT, 5/16-24, Serated Flange, Zinc/Clear, GR5 |
| 0040 | 7011048YP | 2 | BEARING, Yoke |
| 0050 | 7011070YP | 1 | TIE ROD, (5/16-24 thread- both ends) |
| 0060 | 7011071YP | 2 | WASHER, Thrust, (.765 ID, 1.625 OD)(Nylon) |
| 0070 | 7011072YP | 1 | WASHER, Thrust, (Hex Flanged) |
| 0080 | 703459 | 2 | NUT, 5/16-24, Hex Crown Lock,GR C, Zinc/Clear |
| 0090 | 7011763SM | 2 | WASHER, 5/16" I.D. 1" O.D. Fender |
| 0100 | 7012271YP | 1 | WASHER, Notched Shim, Nylon (Can make from 7011071) |
| 0110 | 7015464YP | 1 | STUD, Clutch Link (3/8-24 thread) |
| 0120 | 7033291YP | 1 | COLLAR, Yoke |
| 0130 | 7046162YP | 1 | YOKE |
| 0140 | 7052683YP | 1 | ASSEMBLY, Primary Chain Case (See Primary Chaincase Assembly Group) |
| 0150 | 7059068YP | 1 | ASSEMBLY, Leaf Spring |
| 0160 | 7073733YP | 1 | ARM, YOKE |
| 0170 | 7075115YP | 2 | BOOT, Rear Axle, Thick Flange |
| 0180 | 1921332SM | 4 | SCREW, 5/16-18 x 3/4 Hex Head Cap, GR 5, YZ |
| 0190 | 703301 | 2 | SCREW, 5/16-24 x 1 Hex Head Cap, GR 5, BZ |
| 0200 | 703949 | 4 | SCREW, 5/16-18 x 5/8 Hex Washer Self-Tap, BP |
| 0210 | 703930 | 1 | WASHER, 3/8 Internal Tooth Lock, BZ |
| 0230 | 7091198SM | 2 | SCREW, 3/8-16 x 5/8 Hex Washer Self-Tap, BP |
| 0240 | 703895 | 1 | NUT, 3/8-24, Hex, Grade 5, YZ |
| 0250 | 7105184YP | 4 | CLAMP, 2" ID, Oetiker |
| 0280 | 7301297YP | 1 | PLATE, Rear Hitch |
| 0290 | 7301325YP | 1 | BRACKET, Cross Brace |
| 0300 | 7503036YP | 1 | ASSEMBLY, LH Fender, RER-RE |
| 0300-20 | 7301302YP | 1 | FENDER, 1.625" ID Hole, LH, RER-RE |
| 0300-30 | 7074182YP | 2 | BEARING, 3/4" ID, DX (Not Shown) |
| 0300-40 | 7052827YP | 1 | BEARING, AXLE, 3/4" (Includes 7074182, 7074500, & 7075848) (Not Shown) |
| 0300-50 | 7074500YP | 1 | SEAL, .750X1.25X.25, Dust / Grease (Not Shown) |
| 0300-60 | 7075848YP | 1 | FITTING, Lube, 45 Degree, 3/16 w/Hex (long shank) (Not Shown) |
| 0310 | 7503037YP | 1 | ASSEMBLY, Differential Case, 4 Pinion, RER-RE |
| 0320 | 703409 | 4 | NUT, Serrated Lock Flange, 5/16-18 |
| 0330 | 704130 | 2 | SCREW, 1/4-20X.500, Hex HD, Self-Tap, Zinc/Clear |
| 0680 | 7011013YP | 1 | BOLT, 5/16-24 x 2 Tapered, Axle (Right Hand) |
| 0690 | 7011035YP | 1 | BOLT, 5/16-24 x 1-5/8 Tapered, Axle (Left Hand) |
| 0710 | 7040433YP | 1 | HUB, Rear Wheel, 3 Hole 1.25" ID, RH |
| 0720 | 7040434YP | 1 | HUB, Rear Wheel, 3 Hole 3/4" ID, LH |
| 0750 | 704279 | 2 | NUT, 5/16-24 Hex Flange Lock, BZ |

Primary Chain Case

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 7800950-01



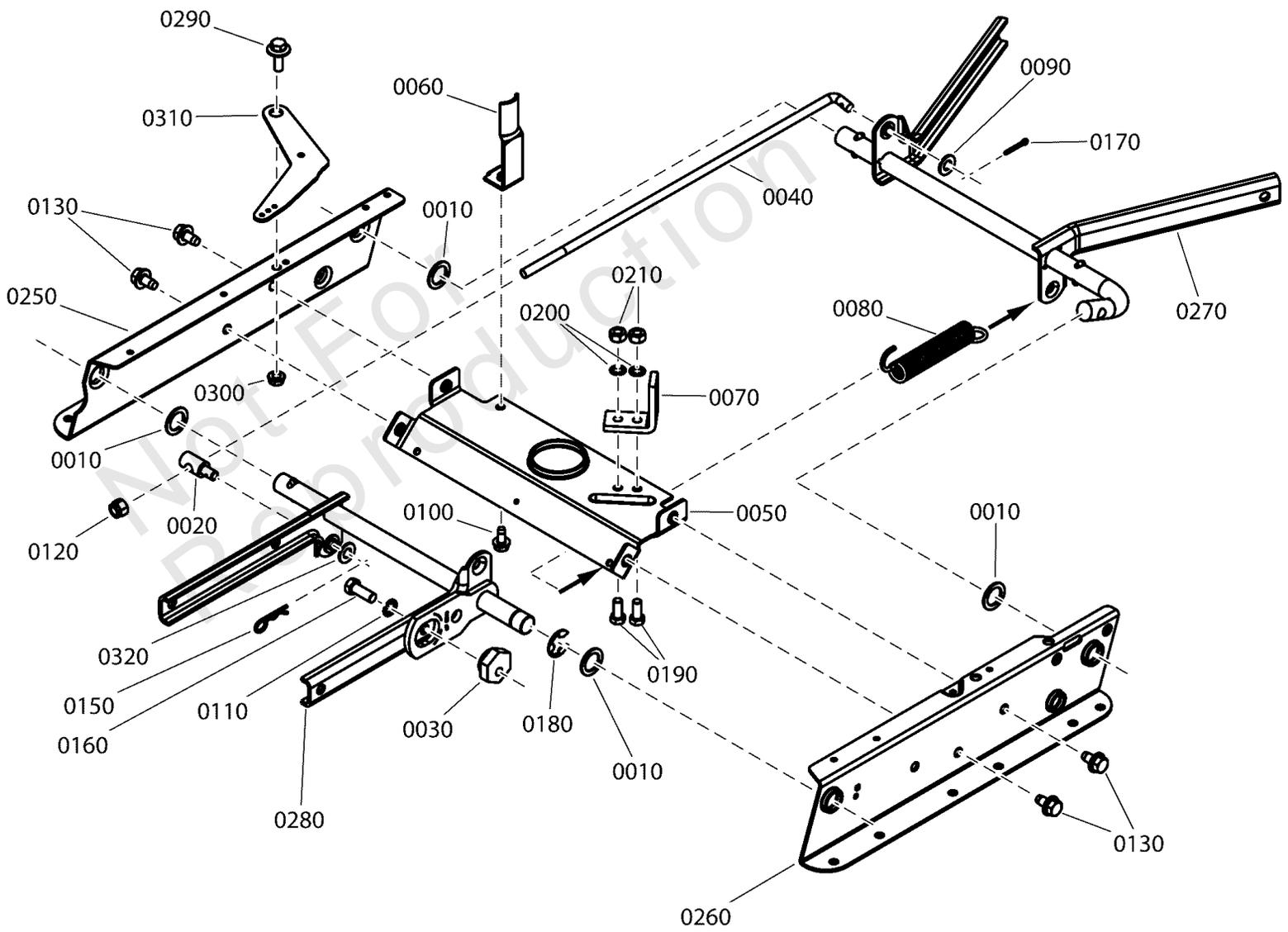
Primary Chain Case

| REF NO | PART NO | QTY | DESCRIPTION |
|---------|-----------|-----|--|
| ---- | 7052683YP | 1 | ASSEMBLY, Primary Chain Case -(Contains all except Rubber Disc and Brake related parts) |
| 0010 | 7010614YP | 1 | KEY, #5 (1/8 x 5/8) Woodruff |
| 0020 | 7072406YP | 1 | SPRING, Brake Return Torsion |
| 0030 | 703972 | 1 | NUT, 1/4-28 Hex Top Lock, GR 5, BZ -(Was 7090303) |
| 0040 | 7010941YP | 1 | CHAIN, 46 Pitch (#35 Endless) |
| 0050 | 7072593YP | 1 | SPACER, Brake Arm Pivot (.265 ID, .375 OD, .418 long) |
| 0060 | 7011086YP | 2 | WASHER, Thrust, Nylon |
| 0070 | 7018963YP | 1 | WELDMENT, Sprocket & Shaft |
| 0080 | 7019260YP | 2 | O-RING, 1/2 x 5/8" |
| 0100 | 7028761YP | 1 | GASKET, Primary Chain Case -(Replaced by gasket kit 7028762YP) |
| 0110 | 7091504YP | 1 | SCREW, 1/4-28 X 1, Hex HD, GR5 BZ |
| 0120 | 7040355YP | 1 | WELDMENT, Hub & Sprocket |
| 0140 | 704060 | 10 | SCREW, #10-24 x 1/2 Hex Washer Self-Tap (Torx), Zinc/Clear |
| 0150 | 7011121SM | 2 | WASHER, Belleville .64 x 1.125 x .028 |
| 0160 | 7027981YP | 1 | WASHER, Wave .625 x .875 |
| 0170 | 7041136YP | 1 | WELDMENT, Primary Chain Case Half, RH |
| 0170-10 | 7010756YP | 2 | BEARING, Ball 5/8 ID x 1-3/8 OD |
| 0170-20 | 7010776YP | 1 | RING, 1/2 External Retaining |
| 0170-30 | 7010942YP | 2 | BEARING, Needle 1.355 ID x 1.6245 OD x .5 Wide |
| 0170-40 | 7022785YP | 1 | ROLLER, 1-3/8 Long |
| 0180 | 7039778YP | 1 | COVER, Primary Chain Case, LH |
| 0330 | 7011024YP | 1 | PLUG, 3/4" |
| 0630 | 703432 | 1 | NUT, 5/8-18, Nylon Insert Lock, Zinc/Clear |
| 0650 | 7600136YP | 1 | KIT, Smooth Clutch Assembly |
| 0650-10 | 7014523YP | 1 | WASHER, Thrust |
| 0650-20 | 7032331YP | 1 | PLATE, Smooth Clutch |
| 0650-30 | 7600135YP | 1 | DRIVEN DISC, Rubber, Smooth Start Clutch |
| 0650-40 | 7600142YP | 1 | ASSEMBLY, Driven Hub & Cup -(Incl. Ref. 0650-60) |
| 0650-50 | 703123 | 4 | NUT, 5/16-24 Hex Flange Lock, BZ |
| 0650-60 | 703935 | 4 | SCREW, 5/16-24 x 1-1/8 Rib Neck, GR 5 (Not Shown) |
| 0660 | 7052497YP | 1 | ASSEMBLY, Brake Lever & Pad |

Rail Assembly

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 7800950-01



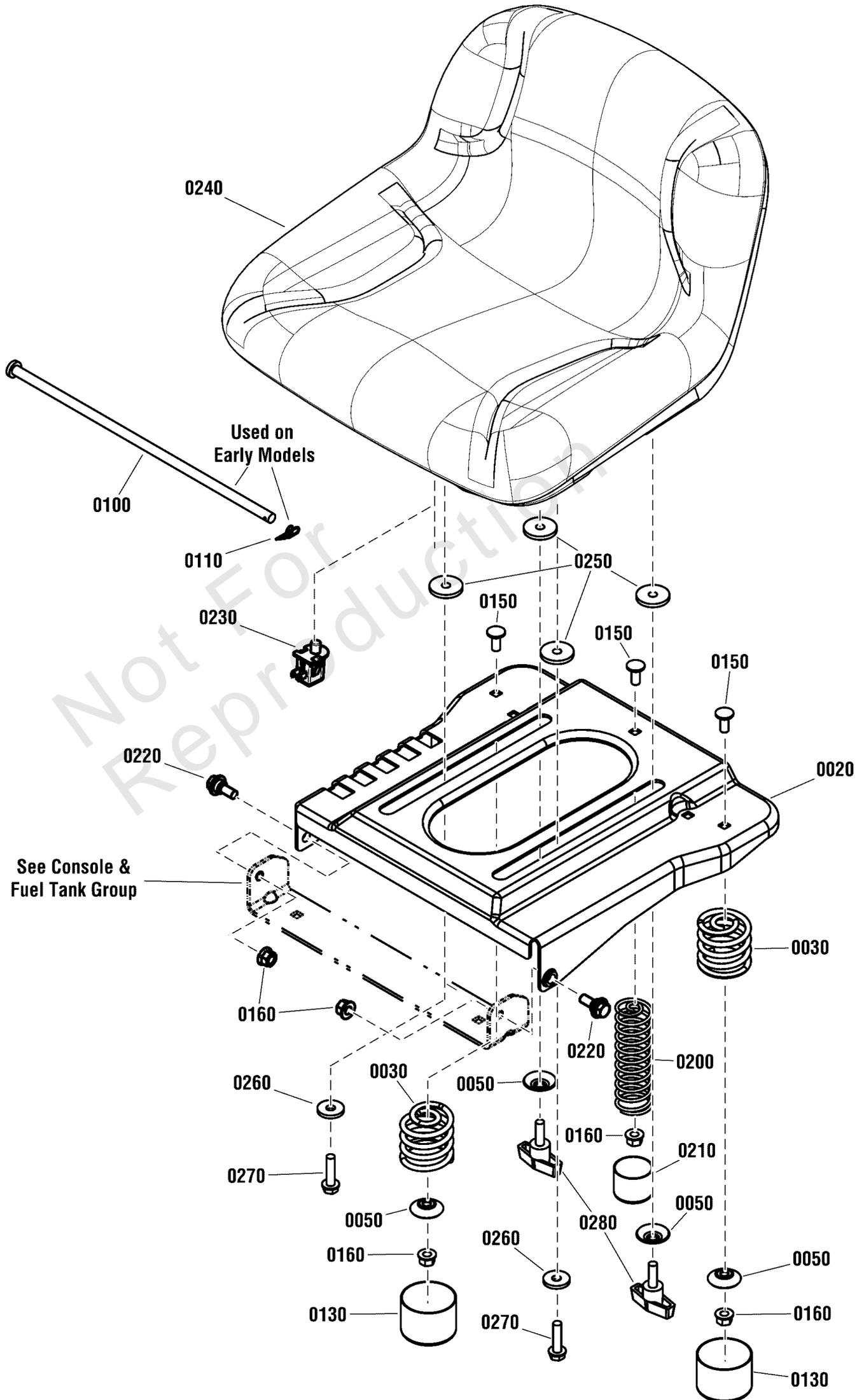
Rail Assembly

| REF NO | PART NO | QTY | DESCRIPTION |
|--------|-------------|-----|--|
| 0010 | 7010935SM | 4 | WASHER, .77 x 1.13 x .06, Flat |
| 0020 | 7011231SM | 1 | SWIVEL, 3/8 w/thru hole, Special |
| 0030 | 7015447YP | 1 | ECCENTRIC, Leveling |
| 0040 | 7016122YP | 1 | ROD, Leveling (3/4-24 thread) |
| 0050 | 7031838BMYP | 1 | BRACE, Top Rail |
| 0060 | 7031855YP | 1 | GUIDE, Belt |
| 0070 | 706321 | 1 | ANCHOR |
| 0080 | 7046163YP | 1 | SPRING, Assist |
| 0090 | 703590 | 2 | WASHER, .406 |
| 0100 | 703949 | 1 | SCREW, 5/16-18 x 5/8 Hex Washer Self-Tap, BP |
| 0110 | 703930 | 1 | WASHER, 3/8 Internal Tooth Lock, BZ |
| 0120 | 703901 | 1 | NUT, 3/8-24 Hex Nyloc ZP |
| 0130 | 7091198SM | 4 | SCREW, 3/8-16 x 5/8 Hex Washer Self-Tap, BP |
| 0150 | 703300 | 1 | PIN, Hair, 3/32 x 1 5/8 |
| 0160 | 001X20MA | 1 | CAPSCREW, 3/8-24 x 1, Hex Head, Zinc |
| 0170 | 703958 | 1 | PIN, 1/8 X 0.75, Cotter, Zinc/Clear |
| 0180 | 0011X3MA | 1 | E-RING, .750D x .050T |
| 0190 | 703336 | 2 | SCREW, 5/16-24 x 3/4 Hex Head Cap, GR 5 |
| 0200 | 7090391SM | 2 | WASHER, 5/16, Internal Lock, Zinc/Clear |
| 0210 | 703331 | 2 | NUT, 5/16-24, Hex, GR5, Zinc/Clear |
| 0250 | 7301328YP | 1 | RAIL, Deck Lift RH |
| 0260 | 7301329YP | 1 | RAIL, Deck Lift LH |
| 0270 | 7400324YP | 1 | WELDMENT, Rear Lift Arm, RER-RE |
| 0280 | 7400328YP | 1 | WELDMENT, Front Lift Arm, Adjustable |
| 0290 | 1716654SM | 1 | BOLT, 5/16-18 X 0.75, .50 Shoulder, G5 YZ |
| 0300 | 704067 | 1 | NUT, Hex Flange, 5/16-18 |
| 0310 | 7301366YP | 1 | PLATE, Brake OPC |
| 0320 | 1960103SM | 1 | WASHER, 3/8" |

Seat Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 7800950-01



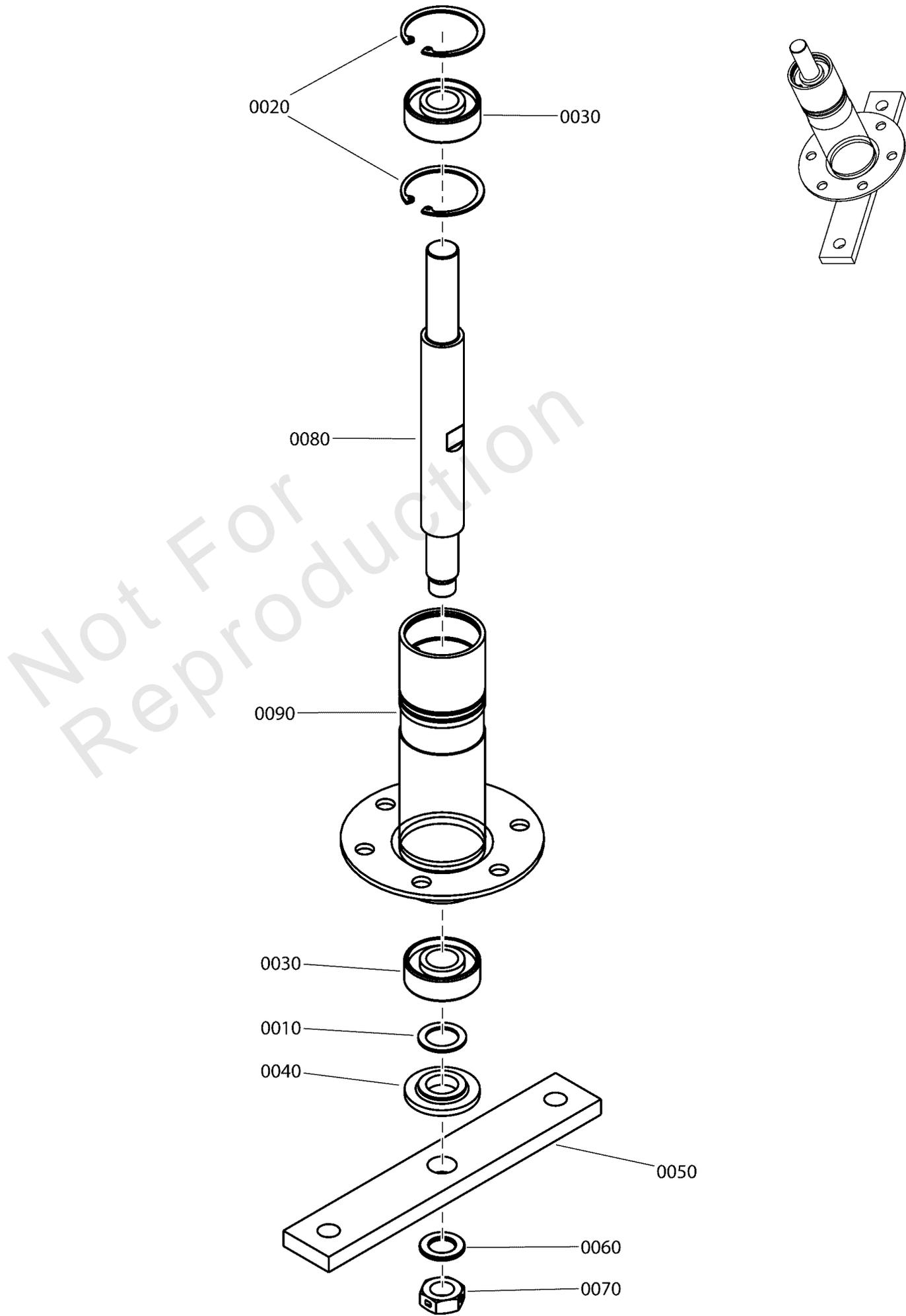
Seat Group

| REF NO | PART NO | QTY | DESCRIPTION |
|--------|-------------|-----|---|
| 0020 | 7301391BMYP | 1 | SUPPORT, Seat |
| 0030 | 1704728SM | 2 | SPRING, Compression, 19/32 x 2 |
| 0050 | 1709256SM | 4 | WASHER, Spring, 5/16 x 1 1/4 |
| 0100 | 1751493YP | 1 | ROD, Seat Pivot, .375 X 13.44 to .109 Hole -Used on early models |
| 0110 | 703355 | 1 | PIN, 3/8 Cotter Self Locking, Zinc/Clear -Used on early models |
| 0130 | 1704724SM | 2 | COVER, Spring 2" Id X 1-1/2", Black Vinyl |
| 0150 | 703185 | 3 | BOLT, Carriage, 5/16-18 X 3/4 |
| 0160 | 703115 | 5 | NUT, Flange Nylock, 5/16-18 |
| 0200 | 7106013YP | 1 | SPRING, Compression, 4.57" Free Length |
| 0210 | 5023274SM | 1 | CAP, Vinyl, 1.375 X 1 |
| 0220 | 703851 | 2 | BOLT, Shoulder, 5/16-18 x 1 1/8 |
| 0230 | 7023354YP | 1 | SWITCH, Seat, Push Button (NC) |
| 0240 | 1754214YP | 1 | SEAT, 11" High, 18.8" Wide (Black) |
| 0250 | 1731300SM | 4 | SPACER, 0.32 ID x 1-1/2 OD x 3/10 THK Powdered Metal Yellow |
| 0260 | 703298 | 2 | WASHER, 5/16 |
| 0270 | 1930595SM | 2 | SCREW, Hex Cap Flange Whiz Lock, 5/16-18 x 1-1/4, G5 |
| 0280 | 1752056YP | 2 | KNOB, 5/16-18 x 3/4 Two Prong |

Spindle & Housing Assembly

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 7800950-01



Spindle & Housing Assembly

| REF NO | PART NO | QTY | DESCRIPTION |
|--------|-----------|-----|---|
| 0010 | 7010935SM | 1 | WASHER, .77 x 1.13 x .06, Flat |
| 0020 | 7012491SM | 2 | RING, 1.85", Internal Retaining |
| 0030 | 7013313SM | 2 | BEARING, Ball, 1.78 OD, .750 ID, .610 Wide |
| 0040 | 7014407SM | 1 | WASHER, Spindle, .75 ID, 1.75 OD, .28 Thick, PM |
| 0050 | 7031184YP | 1 | HOLDER, Blade (3 Hole) |
| 0060 | 7044782YP | 1 | SPACER, Blade Centering (.63 X 1.05 X .094) |
| 0070 | 7090356YP | 1 | NUT, 5/8-18 Hex Center Lock Jam, GR5, ZP |
| 0080 | 7200147YP | 1 | SHAFT, Spindle, 9.737" |
| 0090 | 7400327YP | 1 | WELDMENT, Spindle Housing (7" Tall) |

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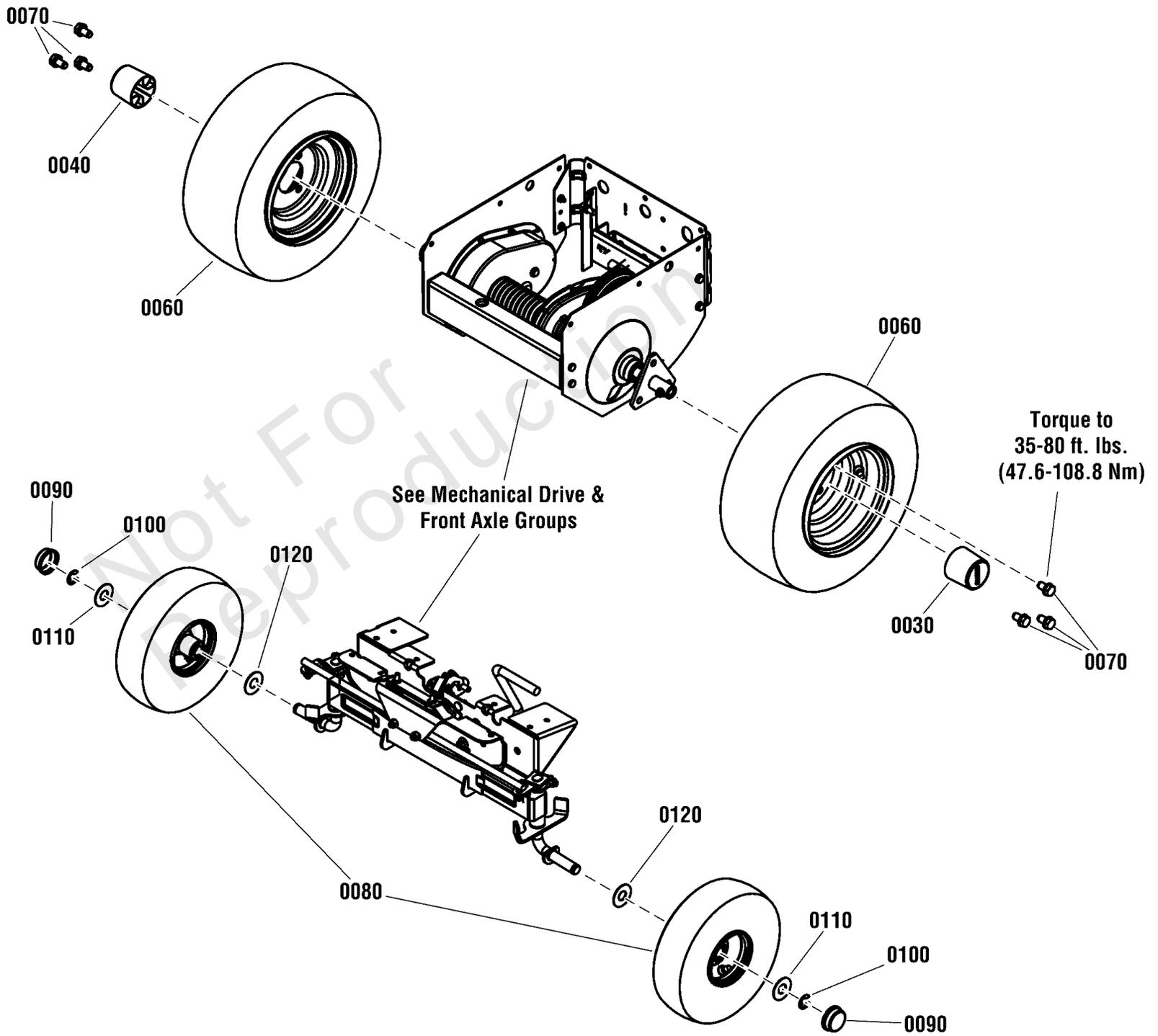
Steering Tower Group

| REF NO | PART NO | QTY | DESCRIPTION |
|--------|-------------|-----|--|
| 0010 | 7301293BMYP | 1 | SUPPORT, Steering Column |
| 0020 | 7105572YP | 1 | SHAFT, Steering |
| 0030 | 1729665SM | 1 | BUSHING, Steering, 3/4 ID |
| 0040 | 7105751YP | 1 | BEARING, Steering Shaft, 3/4 ID |
| 0050 | 7106341YP | 1 | SPRING, Conical Compression |
| 0060 | 703151 | 1 | WASHER, .766 ID X 1.06 OD X .07 |
| 0070 | 7301375BMYP | 1 | BRACKET, Blade Engagement Handle |
| 0090 | 7105731BMYP | 1 | LEVER, PTO Engagement |
| 0110 | 7023657YP | 1 | GRIP, Handle, 3/8 |
| 0120 | 7105654YP | 1 | ROD, Parking Brake |
| 0130 | 7105745YP | 1 | KNOB, Parking Brake |
| 0140 | 7105566YP | 1 | CABLE, Blade Engagement, 40.82" |
| 0150 | 703953 | 8 | SCREW, Torx Pan Head Self-Tapping, 1/4-20 X 5/8, |
| 0200 | 7091272YP | 2 | FASTENER, 1/4 x 3/4 Ratchet |
| 0210 | 7105597YP | 1 | COVER, Steering Tower/Support |
| 0220 | 7105704YP | 1 | COVER, Plastic - Turtle, Black |
| 0230 | 7301260DYP | 1 | TOWER, Steering, Red |
| 0240 | 703350 | 2 | WASHER, 5/16, Flat SAE, Zinc/Clear |
| 0250 | 703409 | 6 | NUT, Serrated Lock Flange, 5/16-18 |
| 0260 | 703116 | 2 | WASHER, .32 X .58 X .08, Split Lock, YZ |
| 0270 | 703465 | 2 | NUT, 5/16-18, GRB, Zinc/Clear |
| 0280 | 7106027YP | 2 | BUSHING, PTO Lever, Plastic |
| 0290 | 7301373YP | 1 | PADDLE, PTO Lever |
| 0300 | 704061 | 1 | SCREW, 10-32 x 1/4 Hex Washer Self-Tap, BZ |
| 0310 | 7106051YP | 1 | WIRE, RER Head Light Ground |
| 0340 | 703447 | 2 | BOLT, 5/16-18 X .625, Carriage, GR5, Zinc/Clear |
| 0350 | 7031965YP | 2 | WASHER, 1.25 X .765 X .03, Thrust, ZC/CL |
| 0360 | 1725024SM | 1 | CAP, Steering Wheel |
| 0370 | 1960576SM | 1 | NUT, Hex Lock, ESNA Light, 5/8-18 |
| 0380 | 7105776YP | 1 | STEERING WHEEL, 13 DIA, 5.87 Dish, 3 Spoke |
| 0380 | 706337 | 1 | STEERING WHEEL, 13 DIA, 5.87 Deep Dish, 3 Spoke |
| 0390 | 703580 | 1 | WASHER, 5/8 |

Wheel Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 7800950-01



Wheel Group

| REF NO | PART NO | QTY | DESCRIPTION |
|--------|-----------|-----|---|
| 0030 | 7023522YP | 1 | CAP, Hub, L. H. (.975 ID x 2.25)(Long Axle) |
| 0040 | 7023895YP | 1 | CAP, Hub, R. H. (1.35 ID x 2.25)(Short Axle) |
| 0060 | 7106091YP | 2 | WHEEL ASSEMBLY, Rear, 16X6.50-8 2P K358 Kenda |
| 0070 | 703431 | 6 | BOLT, 1/2-20 X .750, Hex Washer Dog Point, Zinc/Clear |
| 0080 | 7105138YP | 2 | WHEEL ASSEMBLY, Front, 11X4.00-4, Kenda |
| ---- | 7011807YP | 4 | BEARING, Ball, Flanged (3/4 I.D.) -(Not Shown) |
| ---- | 7012234SM | 4 | VALVE, Stem & Cap -(Not Shown) |
| ---- | 703957 | 2 | GREASE FITTING, 1/4-28X31/32 Zinc/Clear -(Not Shown) |
| 0090 | 094618MA | 2 | HUB CAP |
| 0100 | 0011X3MA | 2 | E-RING, .750D x .050T |
| 0110 | 17X195MA | 2 | WASHER, .765 ID, 1.8 OD, .0598 Thk, Flat ZP |
| 0120 | 7031965YP | 2 | WASHER, 1.25 X .765 X .03, Thrust, ZC/CL |

Not For Reproduction

Hardware Identification & Torque Specifications

| Torque Specification Chart | | | | | | | | |
|--|-----------|------|-----------|------|------------|------|------------|------|
| FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%) | | | | | | | | |
| Property Class | 5.6 | | 8.8 | | 10.9 | | 12.9 | |
| | Class 5.6 | | Class 8.8 | | Class 10.9 | | Class 12.9 | |
| Size Of Hardware | in/lbs | Nm. | in/lbs | Nm. | in/lbs | Nm. | in/lbs | Nm. |
| | ft/lbs | | ft/lbs | | ft/lbs | | ft/lbs | |
| 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 |

| Torque Specification Chart | | | | | | |
|---|-------------|-------|-------------|-------|-------------|---------|
| FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%) | | | | | | |
| Hardware Grade | No Marks | | SAE Grade 5 | | SAE Grade 8 | |
| | SAE Grade 2 | | SAE Grade 5 | | SAE Grade 8 | |
| Size Of Hardware | in/lbs | Nm. | in/lbs | Nm. | in/lbs | Nm. |
| | ft/lbs | | ft/lbs | | ft/lbs | |
| 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 |

The guides and ruler furnished below are designed to help you select the appropriate hardware.

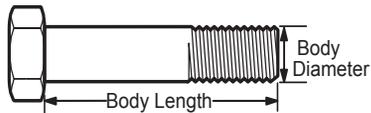


Nut, M8

Thread Diameter (mm)

Inside Diameter (in) Threads per inch

Nut, 1/2-16

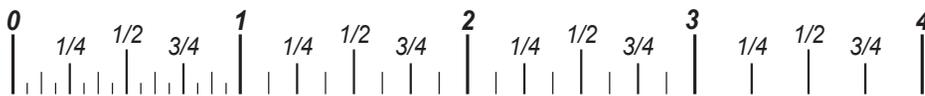


Screw, M8- 1.25 x 25

Thread Diameter (mm) Distance between threads (mm) Body Length (mm)

Body Diameter Threads per inch Body Length (in)

Screw, 1/2- 16 x 2



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).

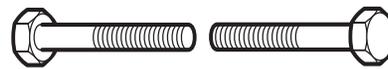
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

NOTES

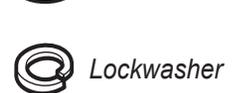
- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
 - for prevailing torque locknuts - use 65% of grade 5 torques.
 - for flange whizlock 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

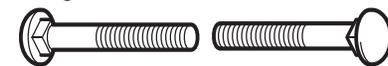
Hex Head Capscrew



Washer



Carriage Bolt



Hex Nut

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 |

