



# Parts Manual

Mfg. No: 5901911

IS600Z Series w/ 52" Side Discharge Flat-Nosed Mower Deck (IS600ZKAV2352)



|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| 5600031 - Kit, Trailer Hitch (IS600/IS700/IS2100/IS2600/IS5100/F160/F210)..... |  |
| 5023280 - Flat Free Tire Assembly (13 X 5 - 6).....                            |  |
| 5600584 - Mulch Kit for ZTR w/ 52" Deck - S/N: 2015866745 & Above.....         |  |
| 5600647 - Headlight Kit.....                                                   |  |
| 5601095 - 52" FN TURBO-Pro; 2-Bag Hard Top Grass Collection System (600).....  |  |
| 5601078 - Service Jack Mount Kit (7.25").....                                  |  |
| 5601080 - Service Jack Kit.....                                                |  |
| 5600085 - Striping Kit, 48FN & 52FN Deck.....                                  |  |

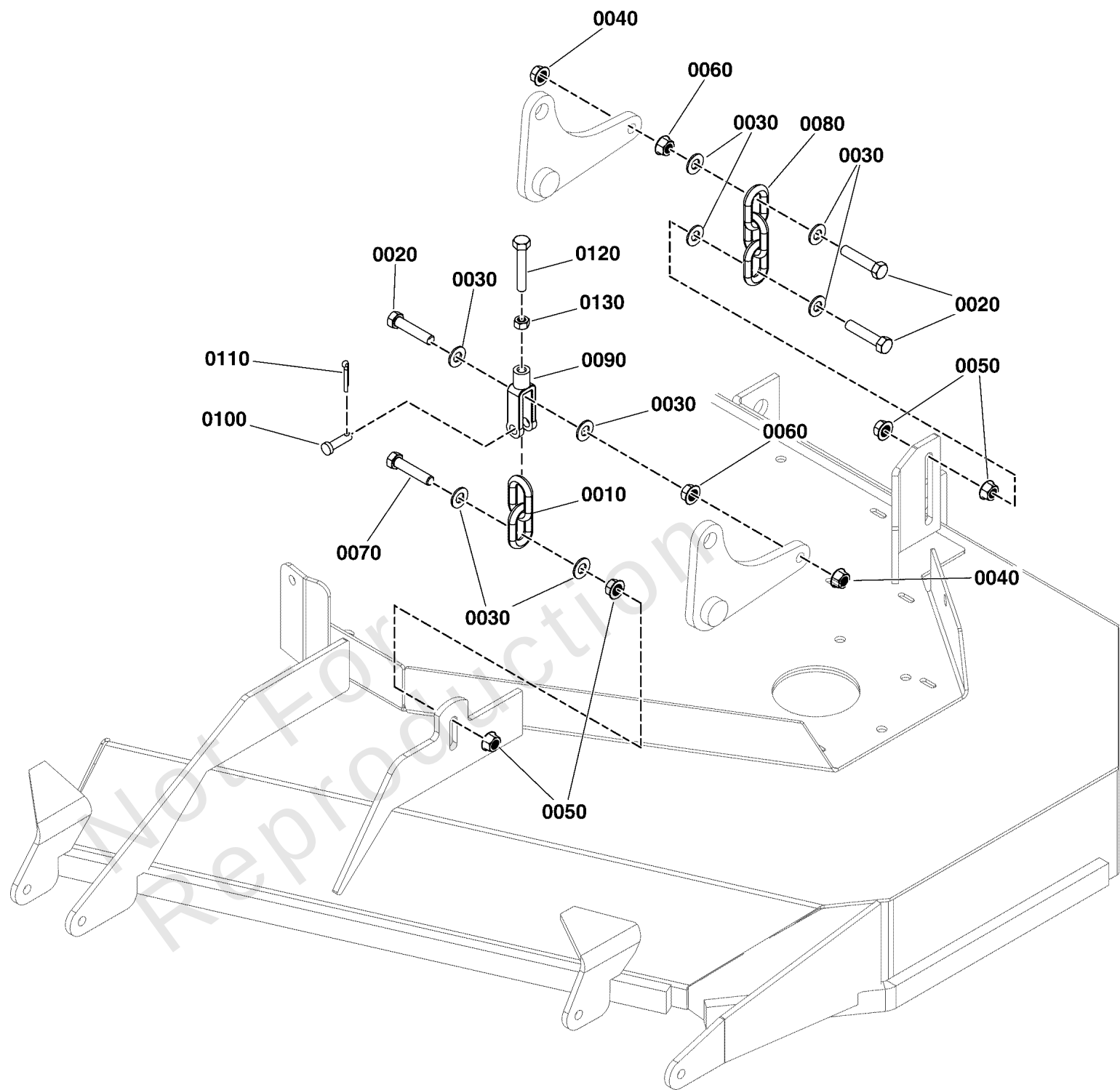
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52" Mower Deck Group - Hanger Chains

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911



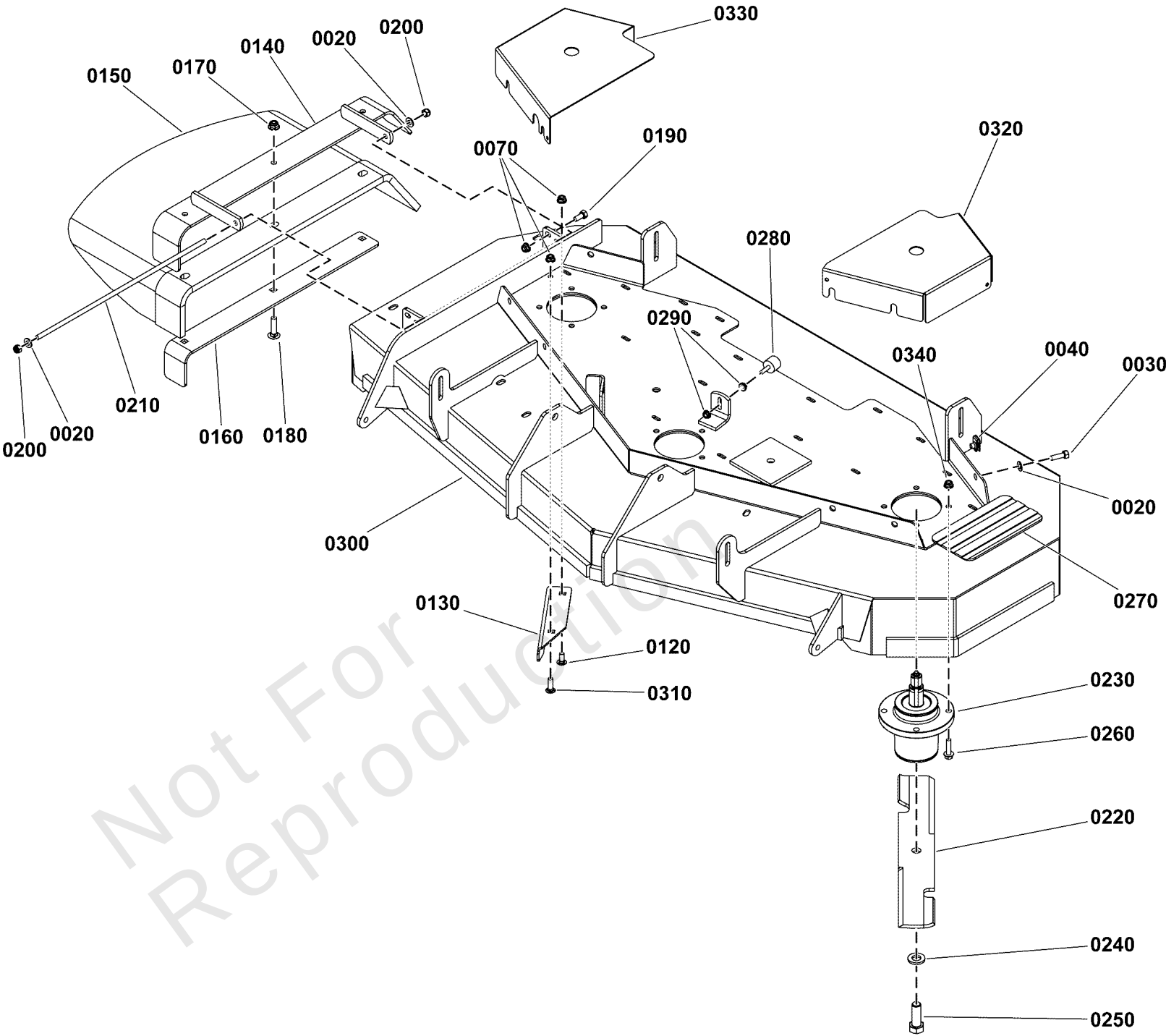
## 52" Mower Deck Group - Hanger Chains

| REF NO | PART NO    | QTY | DESCRIPTION                             |
|--------|------------|-----|-----------------------------------------|
| 0010   | 5050878X2  | 2   | HANGER, FRONT DECK - 2 LINK             |
| 0020   | 5025013X14 | 6   | BOLT, 3/8-16 X 1-3/4" GD5 CZ            |
| 0030   | 5025156    | 16  | WASHER, 3/8 SAE                         |
| 0040   | 5025394    | 4   | NUT, 3/8 - 16 HEX NYLOCK FLANGE         |
| 0050   | 5025128    | 8   | NUT, 3/8-16 Hex Large Serrated Flange   |
| 0060   | 5025084    | 4   | NUT, 3/8-16 HEX JAM                     |
| 0070   | 5025013X16 | 2   | BOLT, 3/8-16 X 2, GD5, CZ               |
| 0080   | 5050878X3  | 2   | CHAIN, 5/16" GD30, 3 LINKS              |
| 0090   | 5100375    | 2   | CLEVIS, 5/16-18, 3/8 PIN HOLE, CLR ZINC |
| 0100   | 5025214X9  | 2   | PIN, CLEVIS, 3/8 X 1-1/8, PLATED        |
| 0110   | 80002736   | 2   | PIN, 3/32 X 0.750, COT, ZINC/CLEAR      |
| 0120   | 5025055X16 | 2   | BOLT, 5/16-18 X 2 GD5 TFL, CZ           |
| 0130   | 5025032    | 2   | NUT, 5/16-18 HEX                        |

52" Mower Deck Group - Housing, Covers, Spindles & Blades

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911



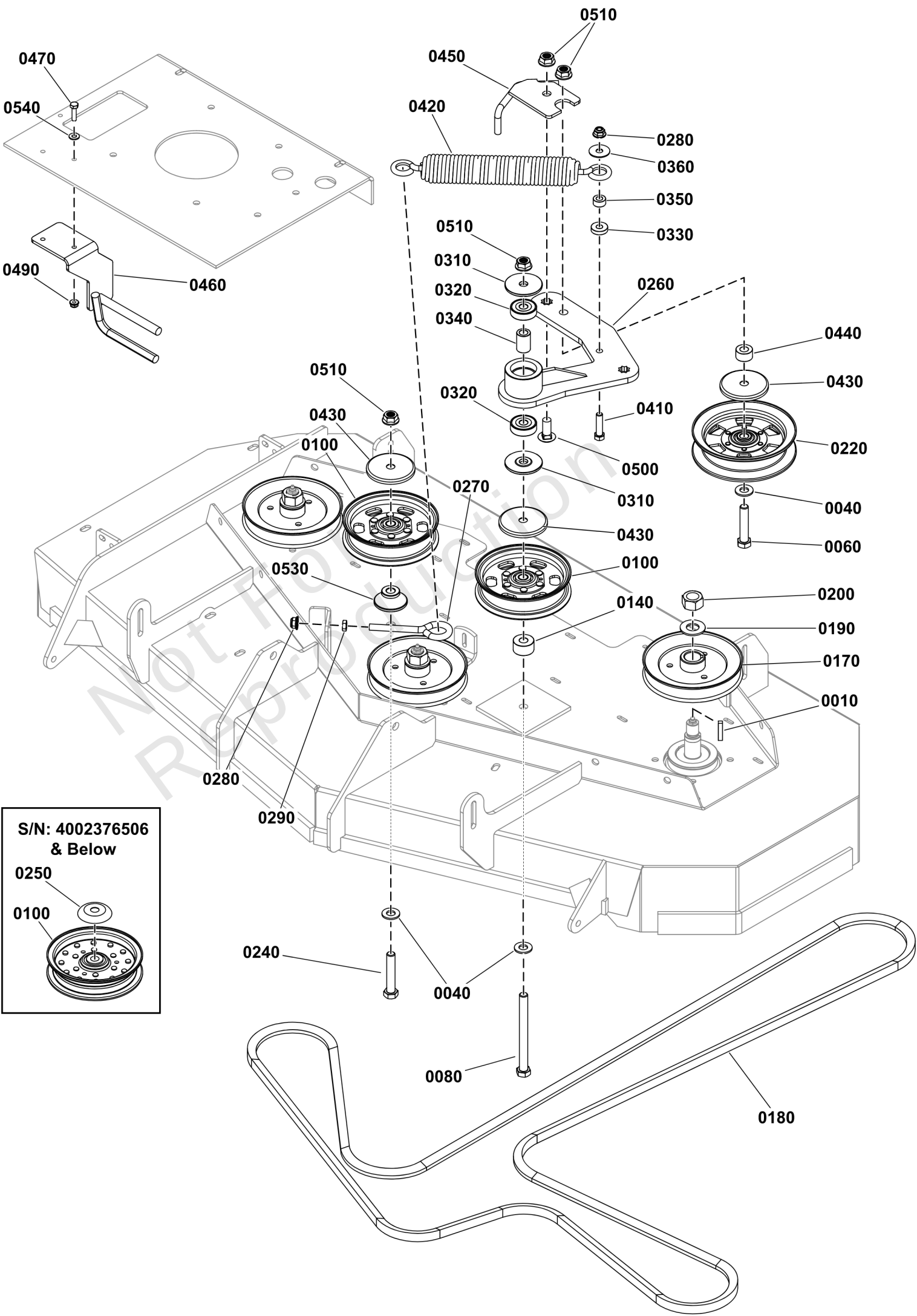
## 52" Mower Deck Group - Housing, Covers, Spindles & Blades

| REF NO | PART NO    | QTY | DESCRIPTION                                                                                    |
|--------|------------|-----|------------------------------------------------------------------------------------------------|
| 0020   | 5025155    | 8   | WASHER, 5/16" SAE                                                                              |
| 0030   | 5025011X8  | 6   | BOLT, 5/16-18 X 1" GRD5 YZ                                                                     |
| 0040   | 5022308    | 6   | BODY CLIP, 5/16-18-7GA MATERIAL                                                                |
| 0070   | 5025392    | 3   | NUT, 5/16-18 HEX NYLOCK FLANGE NUT                                                             |
| 0120   | 5025145X6  | 1   | BOLT, 5/16-18 X 3/4, CARRIAGE, GD5, CZ                                                         |
| 0130   | 5405557A   | 1   | PLATE, DEFLECTOR, 52 DECK - BLK                                                                |
| 0140   | 5413400A   | 1   | WELD, MOUNT, DISCHARGE CHUTE - BLK                                                             |
| 0150   | 84011105   | 1   | CHUTE, Discharge                                                                               |
| 0160   | 5413398A   | 1   | SUPPORT, DISCHARGE CHUTE - BLK                                                                 |
| 0170   | 5025394    | 3   | NUT, 3/8 - 16 HEX NYLOCK FLANGE                                                                |
| 0180   | 5025146X12 | 3   | BOLT, 3/8-16 X 1-1/2, CARRIAGE, GD5, CZ                                                        |
| 0190   | 5025011X6  | 1   | BOLT, 5/16-18 X 3/4 GD5                                                                        |
| 0200   | 5025045    | 2   | NUT, 5/16-24 HEX NYLON LOCK                                                                    |
| 0210   | 5061300    | 1   | ROD, MOUNT, CHUTE, 61, CZ                                                                      |
| 0220   | 5101756S   | 3   | BLADE, 18 X .25 X 2.5, 1 X 3.5 (SET OF THREE)                                                  |
| 0230   | 5061095    | 3   | SPINDLE, ASSM, ALUMINUM - 5.25                                                                 |
| 0240   | 5025477    | 3   | WASHER, BLADE BOLT, 9/16" F436, CZ                                                             |
| 0250   | 5025320X14 | 3   | BOLT, 5/8-11 X 1-3/4 GD8<br>-(Torque blade mounting bolt to 120 ft-lbs (163 Nm))               |
| 0260   | 5025390X10 | 12  | BOLT, 3/8-16 X 1-1/4, FLANGE, GD 5, CZ<br>-(Torque spindle mounting bolt to 30 ft-lbs (41 Nm)) |
| 0270   | 5101004    | 1   | SAFETY WALK, 4.00 X 7.50                                                                       |
| 0280   | 5105237    | 1   | BUMPER, RUBBER, 1/4-20 X 7/8" STUD                                                             |
| 0290   | 5025126    | 2   | NUT, 1/4-20 HEX SERR. FLANGE                                                                   |
| 0300   | 5601082    | 1   | DECK SHELL W/DECALS, 52, IS600Z (5422502B)                                                     |
| 0310   | 5025145X8  | 1   | BOLT, 5/16-18 X 1, CARRIAGE, GD5, CZ                                                           |
| 0320   | 5416764B   | 1   | GUARD, MOWER DECK, 52, LH - RED                                                                |
| 0330   | 5416765B   | 1   | GUARD, MOWER DECK, 52, RH - RED                                                                |
| 0340   | 5025394    | 12  | NUT, 3/8 - 16 HEX NYLOCK FLANGE                                                                |

52" Mower Deck Group - Pulleys, Belt & Idler Arm

Note: Unless noted otherwise, use the standard torque specifications

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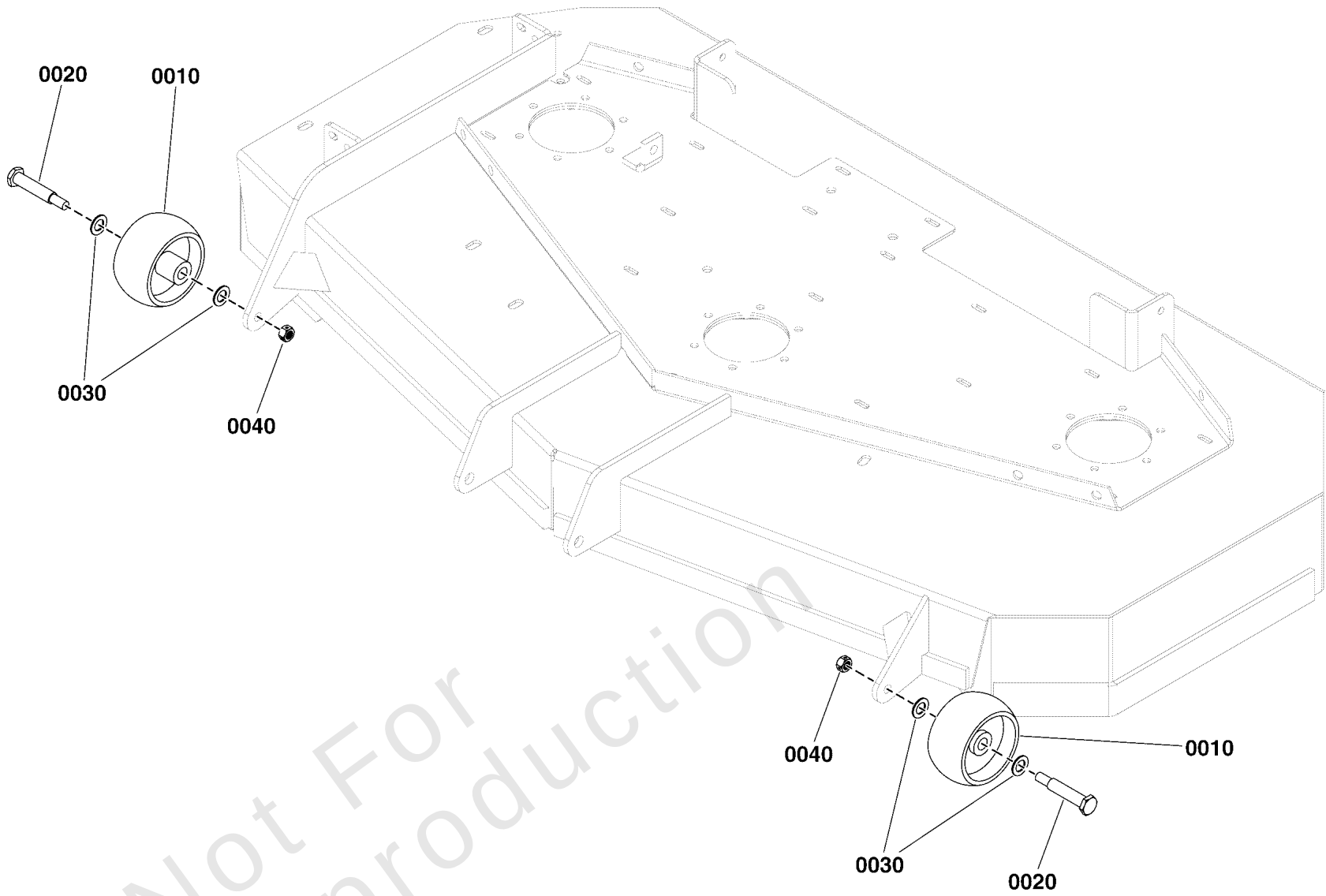
## 52" Mower Deck Group - Pulleys, Belt & Idler Arm

| REF NO | PART NO      | QTY | DESCRIPTION                                                           |
|--------|--------------|-----|-----------------------------------------------------------------------|
| 0010   | 5050407X10YP | 3   | KEY, 1/4 SQ X 1-1/4                                                   |
| 0040   | 5025158SM    | 3   | WASHER, 1/2" SAE                                                      |
| 0060   | 5025017X20SM | 1   | BOLT, 1/2-13 X 2-1/2                                                  |
| 0080   | 5025017X44SM | 1   | BOLT, 1/2-13 X 5-1/2"                                                 |
| 0100   | 5101794YP    | 2   | PULLEY, IDLER, 5" OD<br>-(S/N: 4002376506 & Below)                    |
| 0100   | 84012672     | 2   | PULLEY w/Shield<br>-(S/N: 4002376507 & Above) (Includes item # 0430.) |
| 0140   | 5047142SM    | 1   | SPACER, .52 X 1.25 X                                                  |
| 0170   | 5101351YP    | 3   | PULLEY, 5.926 OVER BA                                                 |
| 0180   | 84003642     | 1   | BELT, DRIVE                                                           |
| 0190   | 770223       | 3   | WASHER, Belleville, 3/4                                               |
| 0200   | 5025405SM    | 3   | NUT, 3/4-16 HEX                                                       |
| 0220   | 5104716YP    | 1   | PULLEY, IDLER                                                         |
| 0240   | 5025017X22SM | 1   | BOLT, 1/2-13 X 2-3/4"                                                 |
| 0250   | 5101103SM    | 2   | SHIELD, PULLEY<br>-(S/N: 4002376506 & Below)                          |
| 0260   | 5415907AYP   | 1   | IDLER, Arm                                                            |
| 0270   | 5023497SM    | 1   | EYE BOLT, 3/8-16 X 5"                                                 |
| 0280   | 5025394SM    | 2   | NUT, 3/8-16 HEX NYLOCK                                                |
| 0290   | 5025128SM    | 1   | NUT, 3/8-16 HEX SERRA                                                 |
| 0310   | 5104379YP    | 2   | SPACER                                                                |
| 0320   | 5104383YP    | 2   | BEARING                                                               |
| 0330   | 5044960SM    | 1   | SPACER, .39 X 1.00 X                                                  |
| 0340   | 5104456YP    | 1   | SPACER, .51 X .84 X 1                                                 |
| 0350   | 5044933SM    | 1   | SPACER, .39 X .75 X .                                                 |
| 0360   | 5025165SM    | 1   | WASHER, 3/8" FENDER                                                   |
| 0410   | 703406       | 1   | CAPSCREW, 3/8-16X1.5                                                  |
| 0420   | 5104166YP    | 1   | SPRING                                                                |
| 0430   | 5105145YP    | 3   | SHIELD<br>-(Qty: 1 - S/N: 4002376506 & Below)                         |
| 0440   | 5101162YP    | 1   | SPACER                                                                |
| 0450   | 84003145     | 1   | GUIDE, BELT                                                           |
| 0460   | 84003146     | 1   | GUIDE, BELT                                                           |
| 0470   | 5025010X8SM  | 2   | BOLT, 1/4-20 X 1", GD                                                 |
| 0490   | 5025391FS    | 2   | NUT                                                                   |
| 0500   | 5025324X10YP | 1   | BOLT                                                                  |
| 0510   | 770225       | 4   | NUT                                                                   |
| 0530   | 5104342YP    | 1   | IDLER MOUNT                                                           |
| 0540   | 703332       | 2   | WASHER                                                                |

**52" Mower Deck Group - Rollers**

Note: Unless noted otherwise, use the standard torque specifications

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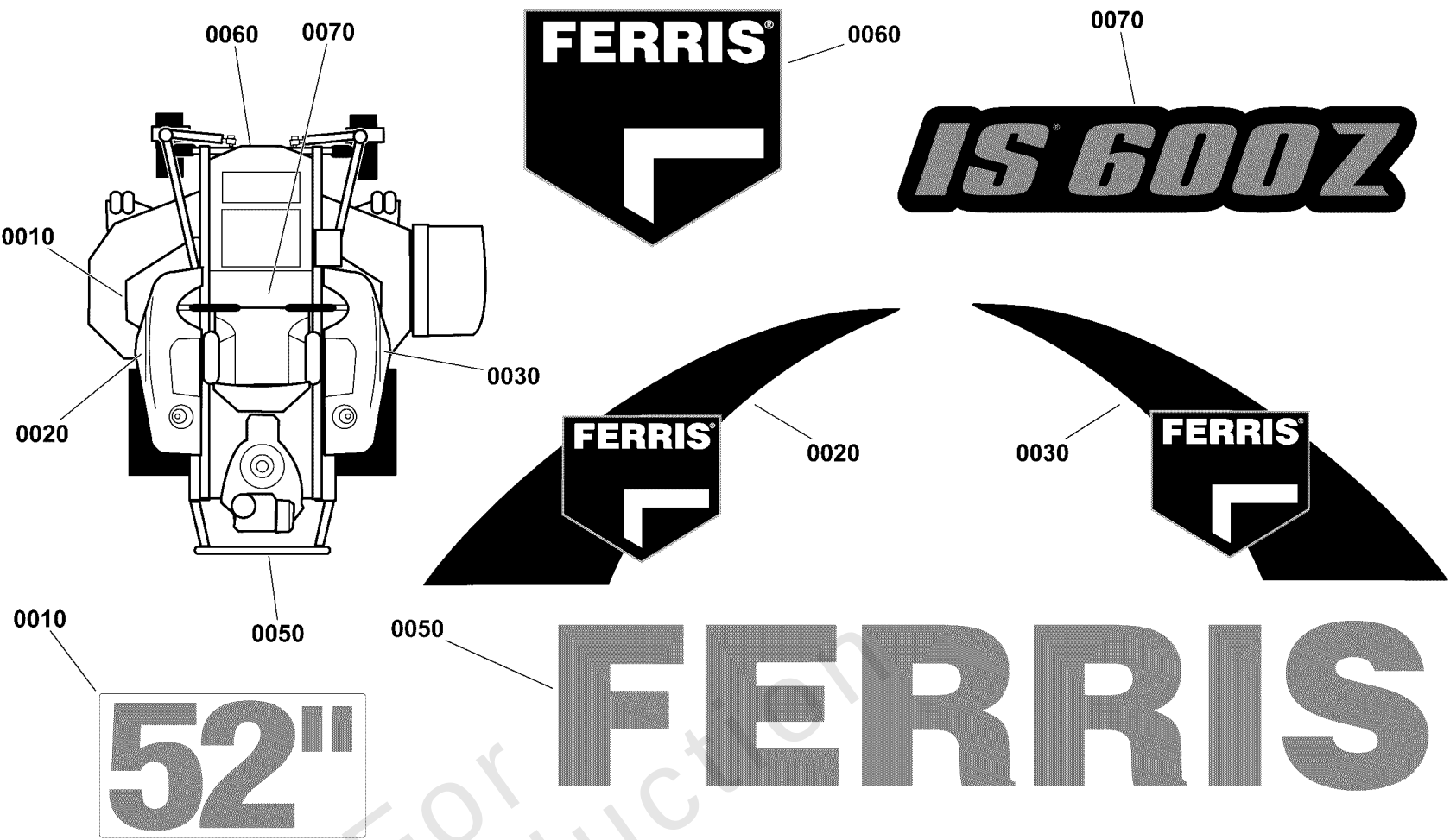
### 52" Mower Deck Group - Rollers

| REF NO | PART NO  | QTY | DESCRIPTION                              |
|--------|----------|-----|------------------------------------------|
| 0010   | 1714760  | 2   | WHEEL- 2.00 WIDE 3.88 DIA 0.531ID POLY   |
| 0020   | 2108765  | 2   | BOLT-WHEEL 3/8-16X2.781 .750 THRD YELLOW |
| 0030   | 80003590 | 4   | WASHER,.516IDX.875ODX.06,FLAT,ZC/CL      |
| 0040   | 5025100  | 2   | NUT, Hex, Side Lock, 3/8-16              |

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*Decal Group - Brand and Model*

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5901911



***Decal Group - Brand and Model***

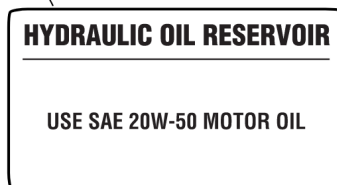
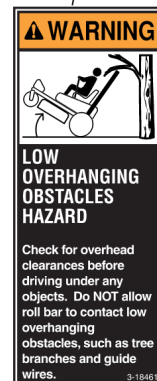
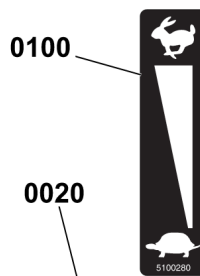
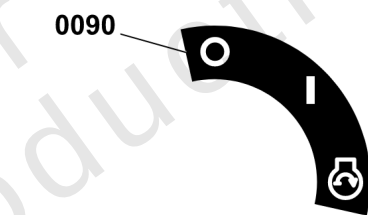
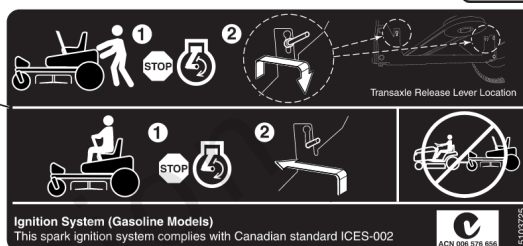
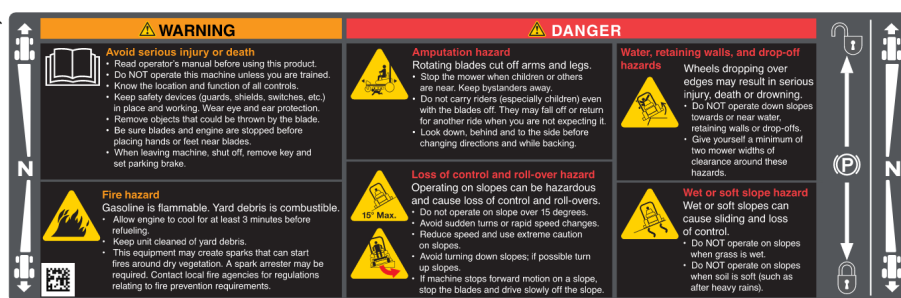
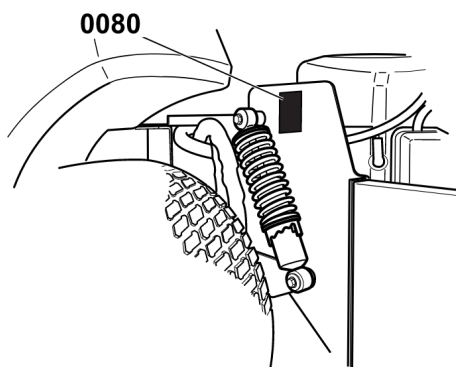
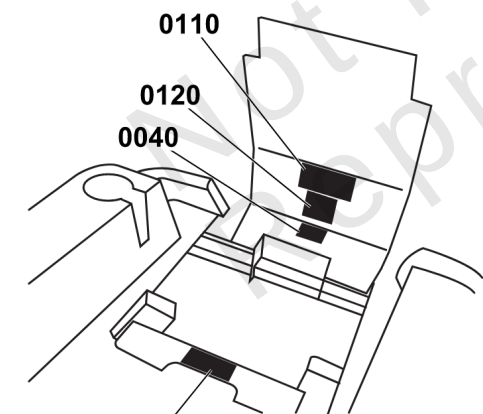
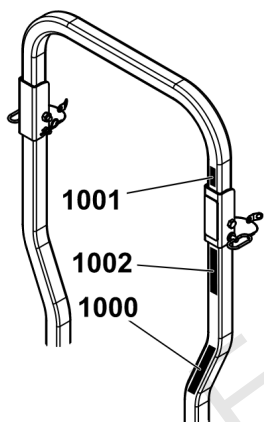
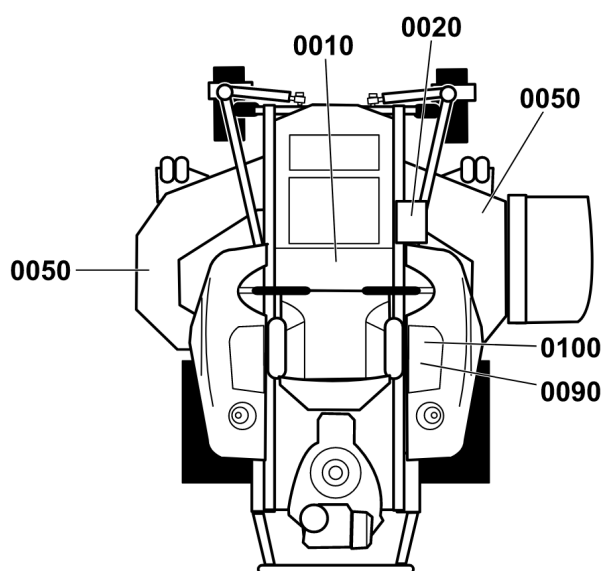
| REF NO | PART NO   | QTY | DESCRIPTION              |
|--------|-----------|-----|--------------------------|
| 0010   | 5022812SM | 1   | DECAL, 52                |
| 0020   | 5109091FS | 1   | DECAL, MODEL, LEFT HAND  |
| 0030   | 5109092FS | 1   | DECAL, MODEL, RIGHT HAND |
| 0050   | 5103799FS | 1   | DECAL, BRAND             |
| 0060   | 5104755FS | 1   | DECAL, BRAND             |
| 0070   | 5104762FS | 1   | DECAL, Model             |

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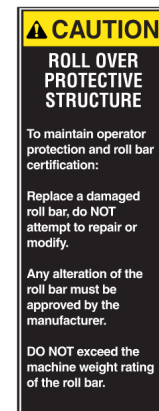
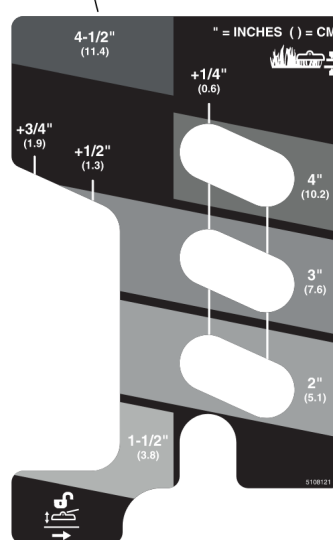
### *Decal Group - Safety & Operation (Folding Roll Bar)*

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911



| Belts & Blades   |          |
|------------------|----------|
| <b>Tractor</b>   |          |
| Pump Drive Belt  | 5103885  |
| <b>44" Mower</b> |          |
| Deck Drive Belt  | 5103928  |
| Mower Blade      | 5061827S |
| <b>48" Mower</b> |          |
| Deck Drive Belt  | 5103929  |
| Mower Blade      | 5101986S |
| <b>52" Mower</b> |          |
| Deck Drive Belt  | 5105529  |
| Mower Blade      | 5101756S |



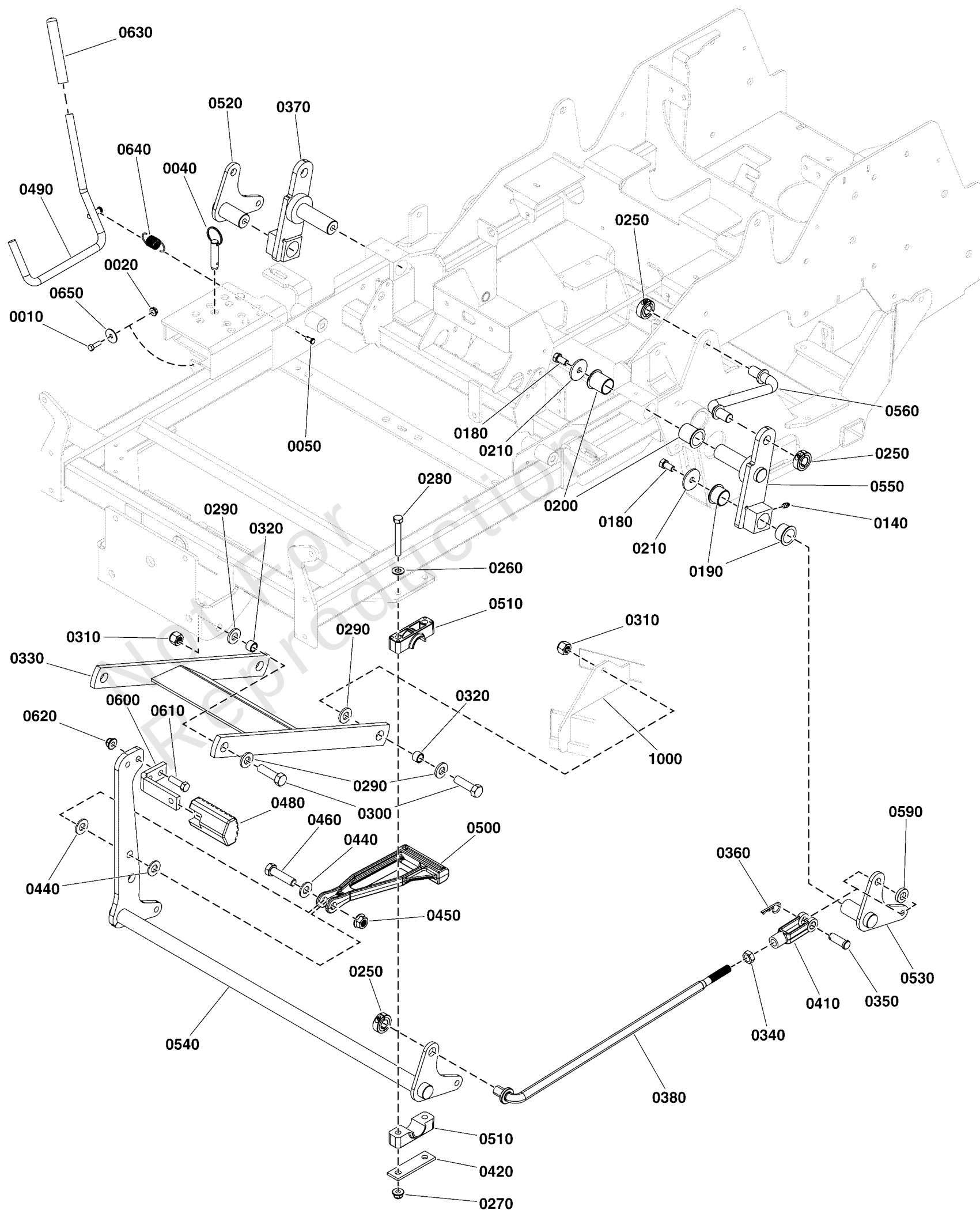
### ***Decal Group - Safety & Operation (Folding Roll Bar)***

| REF NO | PART NO   | QTY | DESCRIPTION                         |
|--------|-----------|-----|-------------------------------------|
| 0010   | 84008252  | 1   | DECAL, MAIN SAFETY                  |
| 0020   | 84003666  | 1   | DECAL                               |
| 0040   | 84007908  | 1   | DECAL, Oil                          |
| 0050   | 84007896  | 2   | DECAL, Danger, Cut Hand/Foot        |
| 0070   | 84007903  | 1   | DECAL, Manual                       |
| 0080   | 84008199  | 2   | DECAL, Warning/Safety, Roll Bar     |
| 0090   | 5048970SM | 1   | DECAL, Ignition Switch              |
| 0100   | 84007897  | 1   | DECAL, Throttle Control             |
| 0110   | 84008155  | 1   | DECAL, Transaxle Release            |
| 0120   | 5105644FS | 1   | DECAL, BELT & BLADE                 |
| 0130   | 84008200  | 1   | DECAL, Warning/Safety, Hand in Belt |
| 1000   | 5104082YP | 1   | DECAL, WARNING, ROPS                |
| 1001   | 5100405YP | 1   | DECAL, WARNING, Overhead Obstacles  |
| 1002   | 5104083YP | 1   | DECAL, CAUTION, ROPS                |

# Deck Lift Group

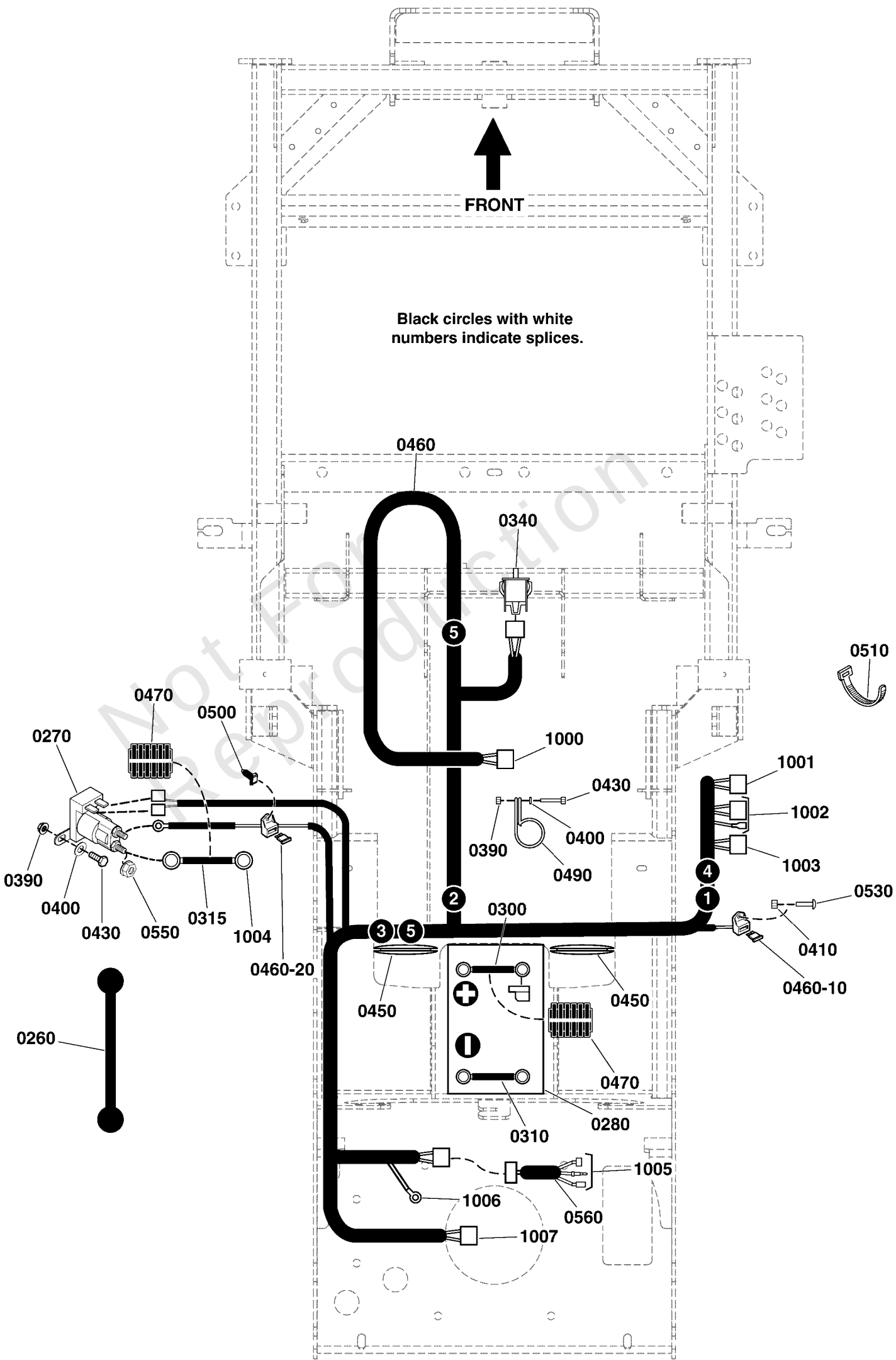
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## Deck Lift Group

| REF NO | PART NO    | QTY | DESCRIPTION                                        |
|--------|------------|-----|----------------------------------------------------|
| 0010   | -----      | 2   | HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR              |
| 0020   | 5025126    | 2   | NUT, 1/4-20 HEX SERR. FLANGE                       |
| 0040   | 5023498    | 1   | PIN, HITCH, 1/2 X 2.00 OAL, YP                     |
| 0050   | 5025212X4  | 1   | PIN, CLEVIS, 1/4 X 1/2, PLATED                     |
| 0140   | 5020095    | 2   | GREASE FITTING, 1/4-28 Straight                    |
| 0180   | 5025443    | 4   | BOLT, 3/8-16 X 3/4, PLT W/PATCH                    |
| 0190   | 5023356    | 4   | BUSHING, 1.00 X 1.13 X .75, PLASTIC                |
| 0200   | 5023343    | 4   | BUSHING, 1.00 X 1.13 X 1.38, Plastic               |
| 0210   | 5100548    | 4   | WASHER, .390 X 1.50 X .109, YZ                     |
| 0250   | 5020441    | 6   | COLLAR, 5/8" Split                                 |
| 0260   | 5025156    | 6   | WASHER, 3/8 SAE                                    |
| 0270   | 5025394    | 4   | NUT, 3/8 - 16 HEX NYLOCK FLANGE                    |
| 0280   | 5025013X22 | 4   | BOLT, 3/8-16 X 2-3/4" GD5 CZ                       |
| 0290   | 5025440    | 8   | WASHER, 1/2" GD9 YZ                                |
| 0300   | 5025018X14 | 4   | BOLT, 1/2-20 X 1-3/4" GD8 CZ                       |
| 0310   | 5025098    | 4   | NUT, Hex, Nylon Lock, 1/2-20                       |
| 0320   | 5020870    | 4   | INSERT, Bearing                                    |
| 0330   | 5409736A   | 1   | WELD, PULLER BAR, IS600 - BLK                      |
| 0340   | 5025089    | 2   | NUT, 1/2-20 Hex Jam                                |
| 0350   | 5025479    | 2   | CLEVIS PIN, 1/2 X 1.36 SAE STANDARD                |
| 0360   | 5025210    | 2   | 3/32 X 1-5/8 HAIR PIN CLIP                         |
| 0370   | 5402534A   | 1   | WELD, REAR LIFT - RH - IS500Z - BLK                |
| 0380   | 5101218    | 2   | ROD, DECK LIFT, SNP                                |
| 0410   | 5023174    | 2   | CLEVIS, 1/2-20, STEEL, CLEAR ZINC                  |
| 0420   | 5403925A   | 2   | PLATE, PIVOT BLOCK SUPPORT - BLK                   |
| 0440   | 5025158    | 3   | WASHER, 1/2 SAE                                    |
| 0450   | 5025396    | 1   | NUT, Hex Flange, Nylock, 1/2-13                    |
| 0460   | 5025017X16 | 1   | BOLT, 1/2-13 X 2" GD5 CZ                           |
| 0480   | 5104262    | 1   | PEDAL, Rubber                                      |
| 0490   | 84010944   | 1   | KIT, Latch w/Grip                                  |
| 0500   | 5104133    | 1   | LINK, DECK LIFT, CAST IRON                         |
| 0510   | 5100634    | 4   | PIVOT BLOCK, PLASTIC                               |
| 0520   | 5409734A   | 1   | WELD, HANGER, REAR, RH - BLK                       |
| 0530   | 5409733A   | 1   | WELD, HANGER, REAR, LH - BLK                       |
| 0540   | 5409731B   | 1   | WELD, DECK LIFT SHAFT, IS600                       |
| 0550   | 5402533A   | 1   | WELD, REAR LIFT - LH - IS500Z - BLK                |
| 0560   | 5103620    | 2   | ROD, SUSPENSION LINK, IS600                        |
| 0590   | 5100520    | 2   | SPACER, .52 X 1.00 X .22, PM, CZ                   |
| 0600   | 5061569A   | 1   | PEDAL, FOOT - BLK                                  |
| 0610   | 5025013X10 | 2   | BOLT, 3/8-16 X 1-1/4" GD5 CZ                       |
| 0620   | 5025394    | 2   | NUT, 3/8 - 16 HEX NYLOCK FLANGE                    |
| 0630   | 5021880    | 1   | GRIP, FOAM, .475 X 4.35 X .095                     |
| 0640   | 5010213    | 1   | SPRING-EXT, .740 ODX2.025LGX.072WR, BLK            |
| 0650   | 5025288    | 2   | WASHER, 1/4" Fender                                |
| 1000   | -----      | 1   | Refer to: Housing, Covers, Spindles & Blades Group |



## Electrical Group

| REF NO  | PART NO    | QTY | DESCRIPTION                         |
|---------|------------|-----|-------------------------------------|
| 0260    | 1722009    | 1   | STRAP, BATTERY, 14 LONG, Rubber     |
| 0270    | 1755382    | 1   | SOLENOID, STD-BRACKET, 2-SPADE      |
| 0280    | -----      | 1   | BATTERY, 11U1L, 350 CCA             |
| 0300    | 5021405    | 1   | BATTERY CABLE, POS, 22, 1/4-5/16    |
| 0310    | 5047690    | 1   | BATTERY CABLE, NEG, 14, 5/16-13/32  |
| 0315    | 5023488    | 1   | BATTERY CABLE, POS, 22, 1/4-5/16    |
| 0340    | 7022886    | 1   | SWITCH, DP NO/NC SNAP-IN            |
| 0390    | 5025126    | 4   | NUT, 1/4-20 HEX SERR. FLANGE        |
| 0400    | 5025154    | 4   | WASHER, 1/4 SAE                     |
| 0410    | 5025271    | 4   | NUT, Hex, Nylon Lock, #10-24        |
| 0430    | 5025010X6  | 4   | BOLT, 1/4"-20 X 3/4" GD5 YZ         |
| 0450    | 5100716    | 2   | GROMMET, 2" ID                      |
| 0460    | 5105536    | 1   | HARNESS, Wiring, Small ZTR          |
| 0460-10 | 5101935    | 1   | FUSE, ATO-15 (15 AMP)(SV)           |
| 0460-20 | 5021603    | 1   | FUSE, ATO-20 (20 AMP)(SV)           |
| 0470    | 5050927X18 | 2   | WIRE LOOM, 3/8 ID X 18 IN           |
| 0490    | 5021500    | 3   | CLAMP, VINYL INSULATED, 1.00        |
| 0500    | 5103761    | 1   | FIR TREE MOUNT, PACKARD             |
| 0510    | 5021030    | 3   | TIE, SELF-LOCKING, 6"               |
| 0530    | 5025179X4  | 4   | SCREW, #10-24 X 1/2" ROUND PHILLIPS |
| 0550    | 80003921   | 2   | NUT,1/4-20,KEPS,CONICAL WSHR,ZC/CL  |
| 0560    | 5104811    | 1   | WIRE HARNESS, JUMPER, KAWI          |
| 1000    | -----      | 1   | Connects to Seat Switch             |
| 1001    | -----      | 1   | Connects to PTO Switch              |
| 1002    | -----      | 1   | Connects to Ignition Switch         |
| 1003    | -----      | 1   | Connects to Hour Meter              |
| 1004    | -----      | 1   | Connects to Engine Starter          |
| 1005    | -----      | 1   | Connects to Engine                  |
| 1006    | -----      | 1   | Connects to Ground                  |
| 1007    | -----      | 1   | Connects to PTO Clutch              |

Electrical Schematic - Charging Circuit Kawi FR730V, FS600V, FS691V, FS730V

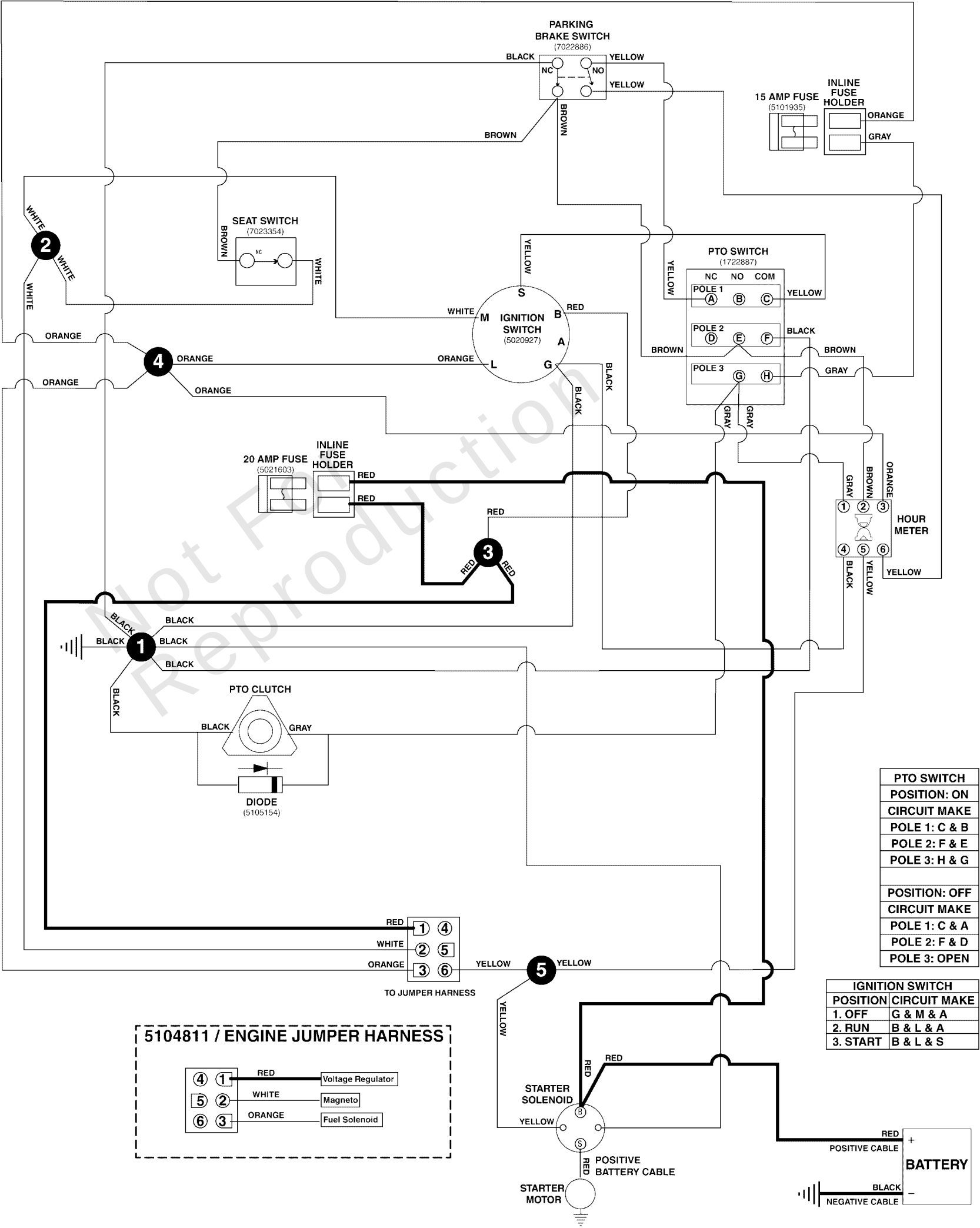
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911

5105536 MAIN WIRE HARNESS - KAWASAKI FR730V, FS600V, FS691V, FS730V ENGINES

(If internal schematic of the switch is not shown, the image of the switch represents the back view of the connector as it is connected to the switch.)

5105536B



## ***Electrical Schematic - Charging Circuit Kawi FR730V, FS600V, FS691V, FS730V***

| REF NO  | PART NO | QTY | DESCRIPTION                |
|---------|---------|-----|----------------------------|
| 5105536 | 5105536 | 1   | HARNESS, Wiring, Small ZTR |
| 5104811 | 5104811 | 1   | WIRE HARNESS, JUMPER, KAWI |

Not For Reproduction

Electrical Schematic - Cranking Circuit Kawi FR730V, FS600V, FS691V, FS730V

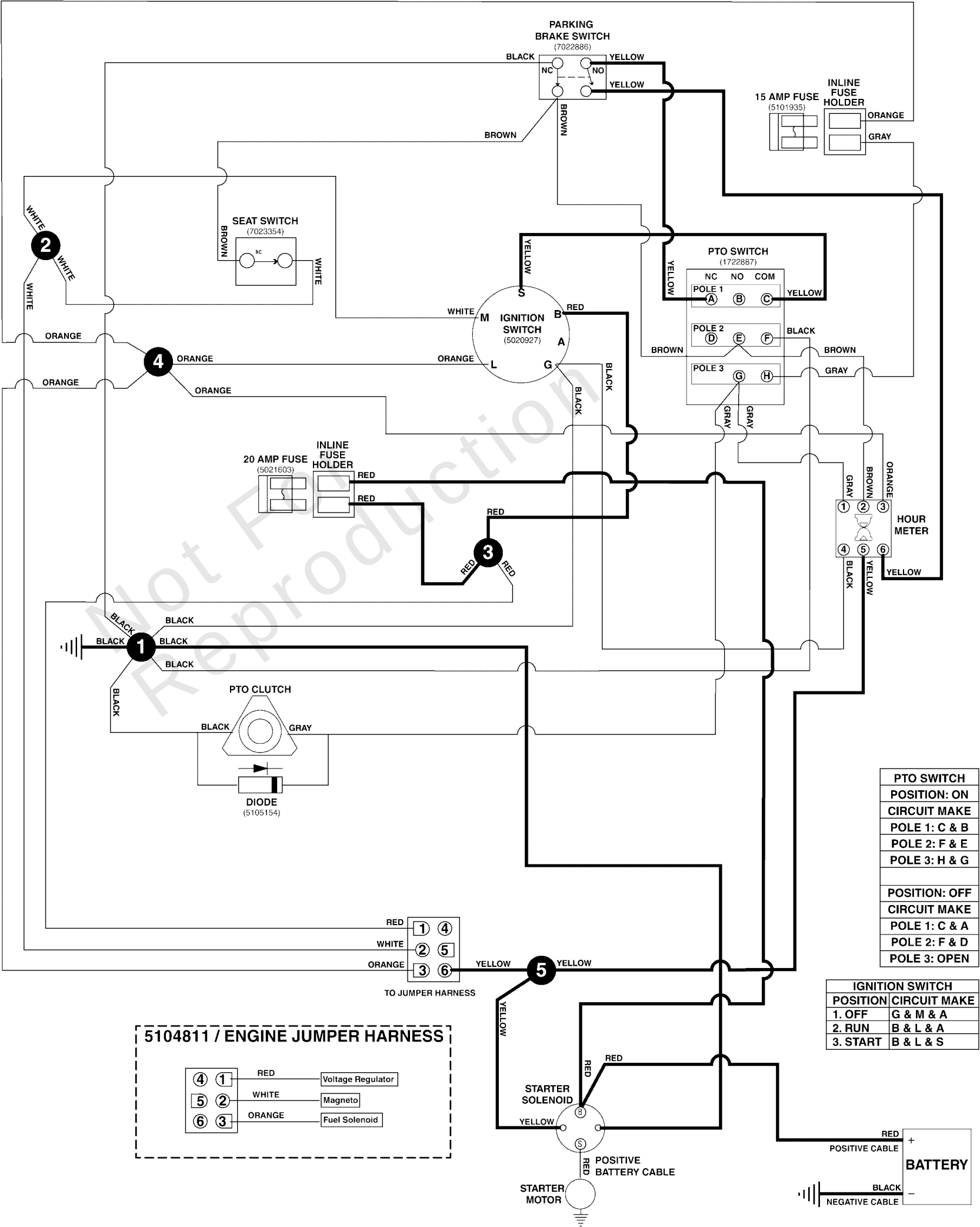
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911

5105536 MAIN WIRE HARNESS - KAWASAKI FR730V, FS600V, FS691V, FS730V ENGINES

5105536B

(If internal schematic of the switch is not shown, the image of the switch represents the back view of the connector as it is connected to the switch.)



*Electrical Schematic - Cranking Circuit Kawi FR730V, FS600V, FS691V, FS730V*

| REF NO  | PART NO | QTY | DESCRIPTION                |
|---------|---------|-----|----------------------------|
| 5105536 | 5105536 | 1   | HARNESS, Wiring, Small ZTR |
| 5104811 | 5104811 | 1   | WIRE HARNESS, JUMPER, KAWI |

Not For Reproduction

Electrical Schematic - Ign. Grounding Circuit/Op. Pres. Kawi FR730V, FS600V, FS691V,

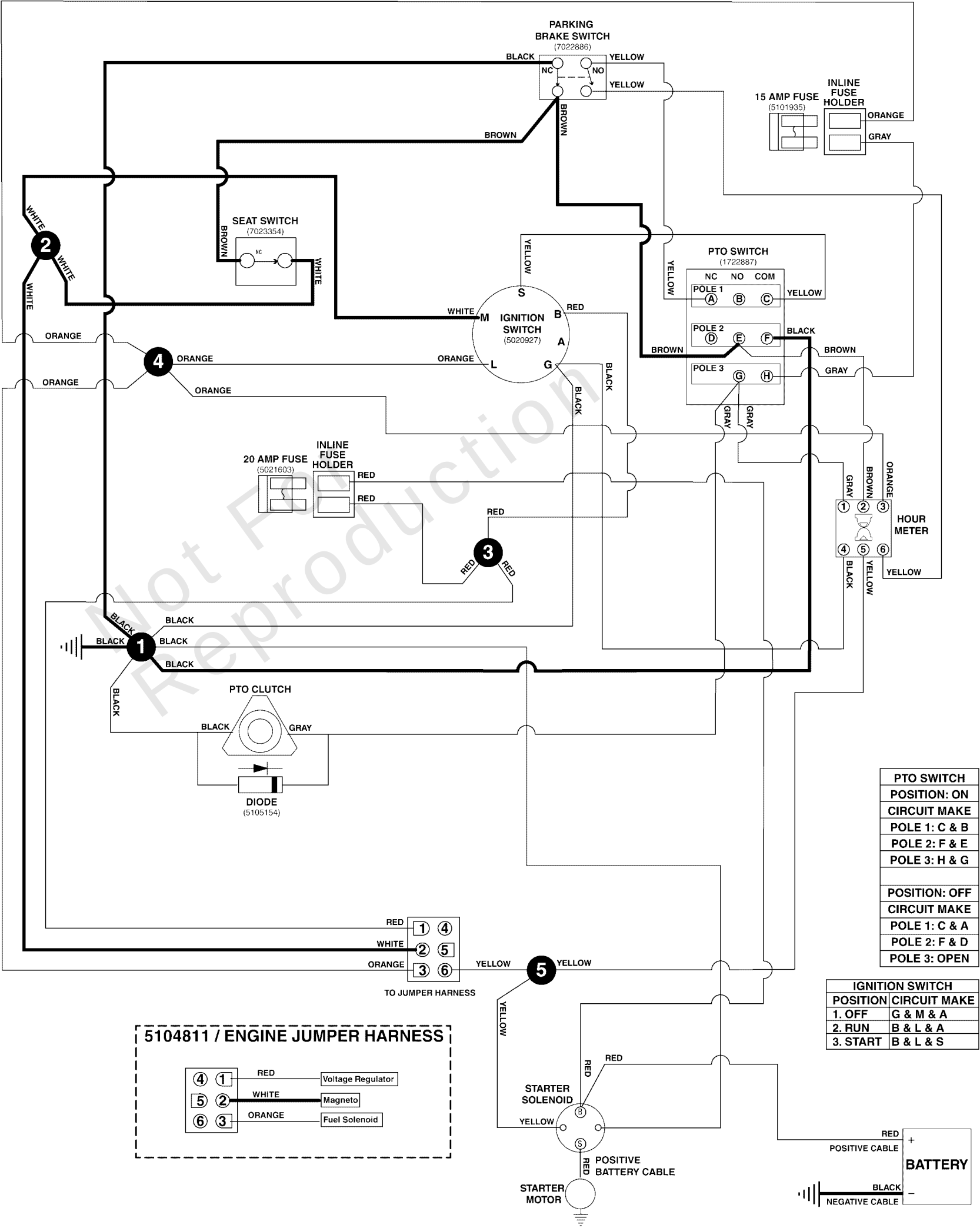
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911

5105536 MAIN WIRE HARNESS - KAWASAKI FR730V, FS600V, FS691V, FS730V ENGINES

5105536B

(If internal schematic of the switch is not shown, the image of the switch represents the back view of the connector as it is connected to the switch.)



*Electrical Schematic - Ign. Grounding Circuit/Op. Pres. Kawi FR730V, FS600V, FS691V,*

| REF NO  | PART NO | QTY | DESCRIPTION                |
|---------|---------|-----|----------------------------|
| 5105536 | 5105536 | 1   | HARNESS, Wiring, Small ZTR |
| 5104811 | 5104811 | 1   | WIRE HARNESS, JUMPER, KAWI |

Not For Reproduction

Electrical Schematic - PTO Clutch Circuit Kawi FR730V, FS600V, FS691V, FS730V

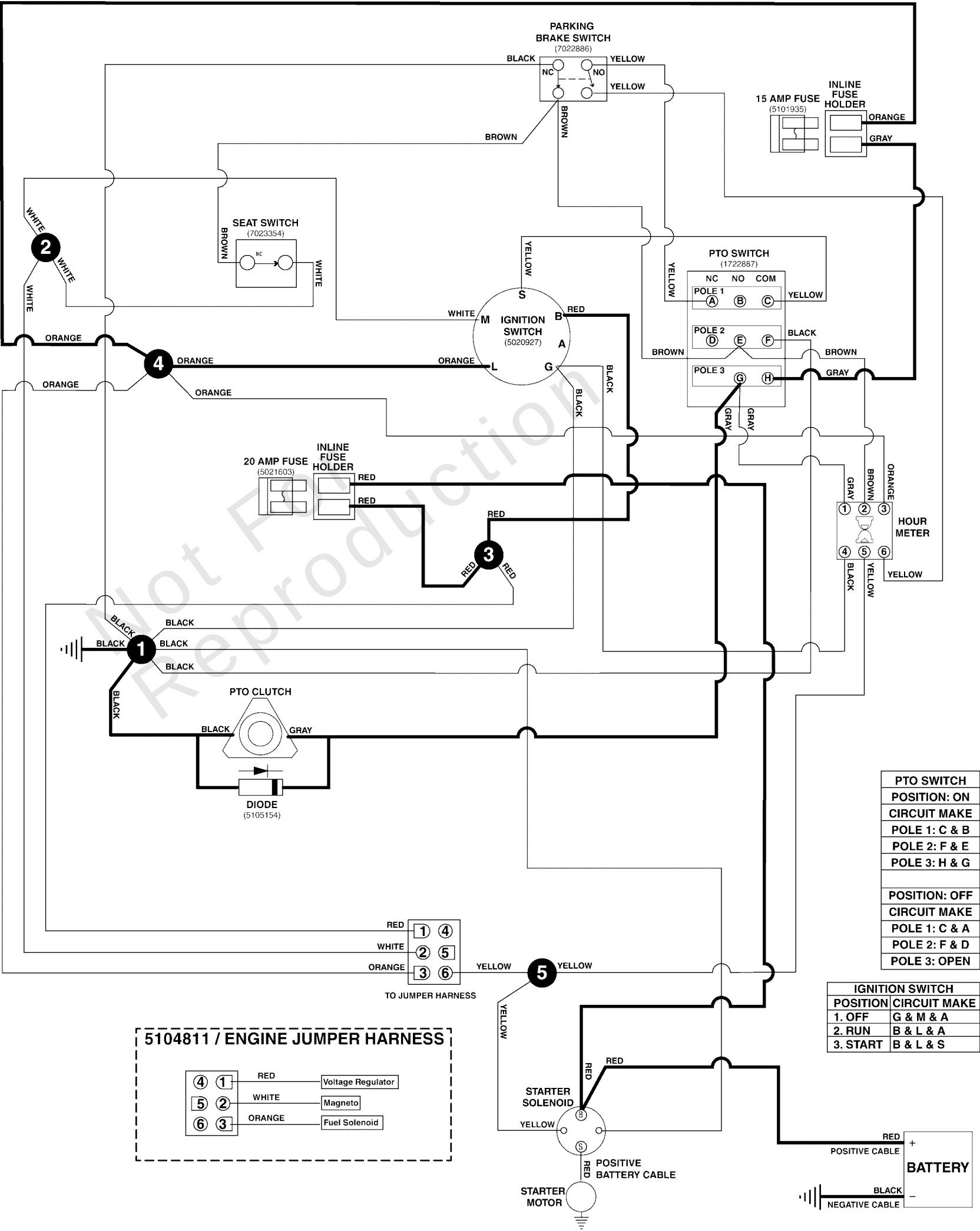
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911

5105536 MAIN WIRE HARNESS - KAWASAKI FR730V, FS600V, FS691V, FS730V ENGINES

(If internal schematic of the switch is not shown, the image of the switch represents the back view of the connector as it is connected to the switch.)

5105536B



**Electrical Schematic - PTO Clutch Circuit Kawi FR730V, FS600V, FS691V, FS730V**

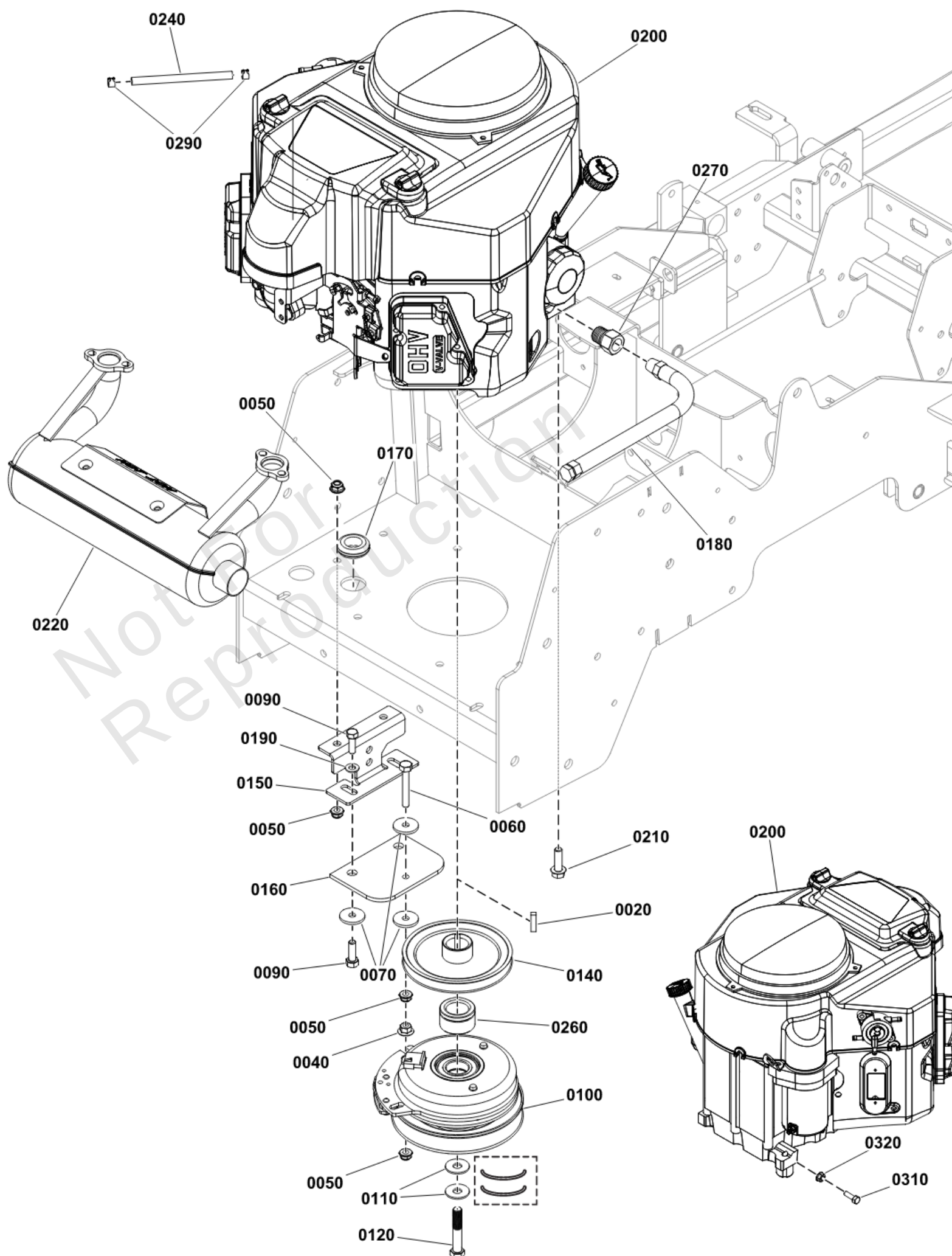
| REF NO  | PART NO | QTY | DESCRIPTION                |
|---------|---------|-----|----------------------------|
| 5105536 | 5105536 | 1   | HARNESS, Wiring, Small ZTR |
| 5104811 | 5104811 | 1   | WIRE HARNESS, JUMPER, KAWI |

Not For Reproduction

### Engine & PTO Group - Kawasaki FS691V

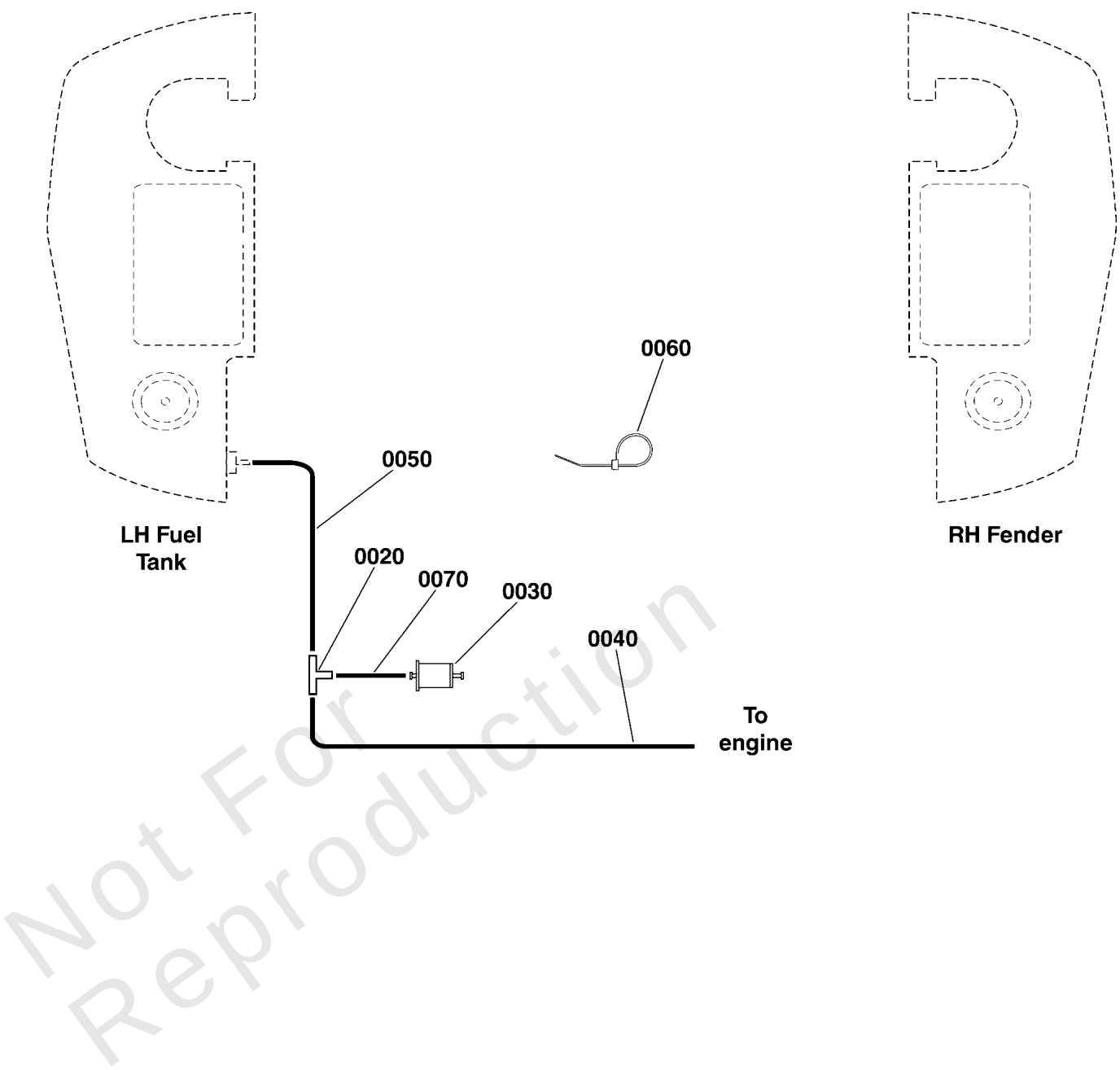
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911



## Engine & PTO Group - Kawasaki FS691V

| REF NO | PART NO      | QTY | DESCRIPTION                                                                  |
|--------|--------------|-----|------------------------------------------------------------------------------|
| 0020   | 5050407X8SM  | 1   | KEY, 1/4" SQ. X 1.00                                                         |
| 0040   | 5025139SM    | 1   | NUT, 5/16-18 HEX SERR                                                        |
| 0050   | 703115       | 6   | NUT                                                                          |
| 0060   | 5025055X18YP | 1   | BOLT, 5/16-18 X 2-1/4                                                        |
| 0070   | 5044617SM    | 4   | WASHER, .34 X 1.25 X                                                         |
| 0090   | 5025011X8FS  | 4   | BOLT                                                                         |
| 0100   | 5105087YP    | 1   | CLUTCH                                                                       |
| 0110   | 5025585YP    | 2   | BELLEVILLE WASHER                                                            |
| 0120   | 5102865YP    | 1   | BOLT, CRANKSHAFT,7/16<br>-(Torque clutch mounting bolt to 65 ft-lbs (88 Nm)) |
| 0140   | 5103558YP    | 1   | PULLEY,CRANKSHAFT                                                            |
| 0150   | 5410367AYP   | 1   | ANCHOR, CLUTCH                                                               |
| 0160   | 5043636SM    | 1   | CLUTCH ANCHOR PAD                                                            |
| 0170   | 5021379SM    | 1   | GROMMET, 7/8                                                                 |
| 0180   | 5048681SM    | 1   | HOSE, OIL DRAIN                                                              |
| 0190   | 703350       | 2   | WASHER                                                                       |
| 0200   | -----        | 1   | ENGINE, KAWASAKI, FS691V                                                     |
| 0210   | 84003591     | 4   | BOLT, FLANGE<br>-(Torque engine mounting bolts to 50 ft-lbs (68 Nm))         |
| 0220   | 5104326YP    | 1   | MUFFLER                                                                      |
| 0240   | 5050831X5SM  | 1   | HOSE - 5"                                                                    |
| 0260   | 5047033SM    | 1   | SPACER, 1.13 X 1.75 X                                                        |
| 0270   | 5022234SM    | 1   | ADAPTER, OIL DRAIN                                                           |
| 0290   | 691038       | 2   | CLAMP, Hose                                                                  |
| 0310   | 703988       | 1   | CAPSCREW M8-1.25X16                                                          |
| 0320   | 5025355SM    | 1   | NUT, M8-1.25 SERR. FL                                                        |



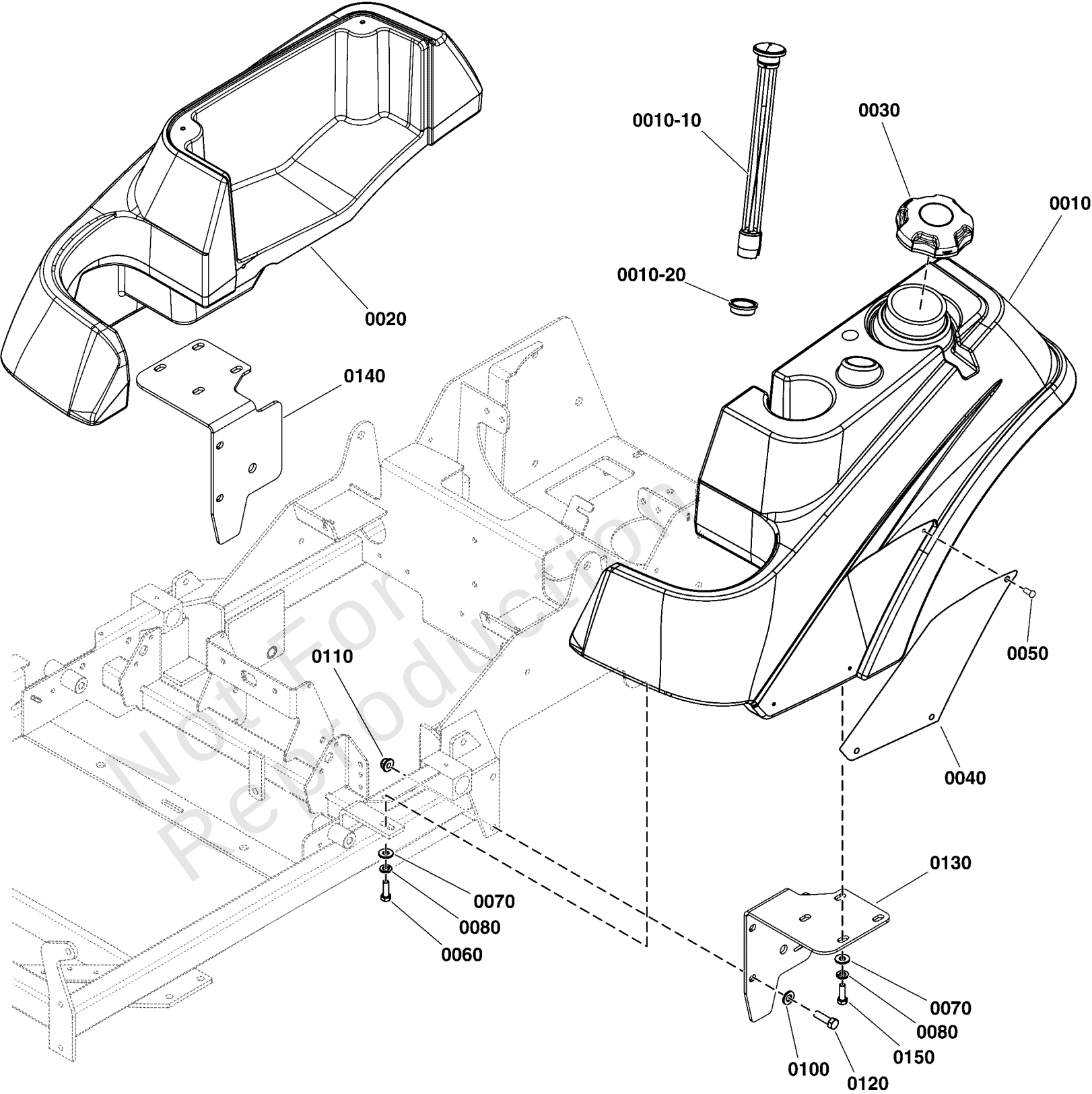
## ***Evap Group***

| REF NO | PART NO      | QTY | DESCRIPTION                                             |
|--------|--------------|-----|---------------------------------------------------------|
| 0020   | 5103062      | 1   | FITTING, 3/16" TEE, BARB TYPE, HDPE                     |
| 0030   | 80025019     | 1   | FILTER, FUEL                                            |
| 0040   | 7700552X21P5 | 1   | HOSE, VAPOR, 5MM ID, 21.50 LG<br>-(T fitting to engine) |
| 0050   | 7700552X15   | 1   | HOSE, VAPOR, 5MM ID, 15.00 LG<br>-(Tank to T fitting)   |
| 0060   | 5021030      | 4   | TIE, SELF-LOCKING, 6"                                   |
| 0070   | 7700552X2    | 1   | HOSE, VAPOR, 5MM ID, 2.00 LG<br>-(T fitting to filter)  |

**Fuel Tank & Mount Group**

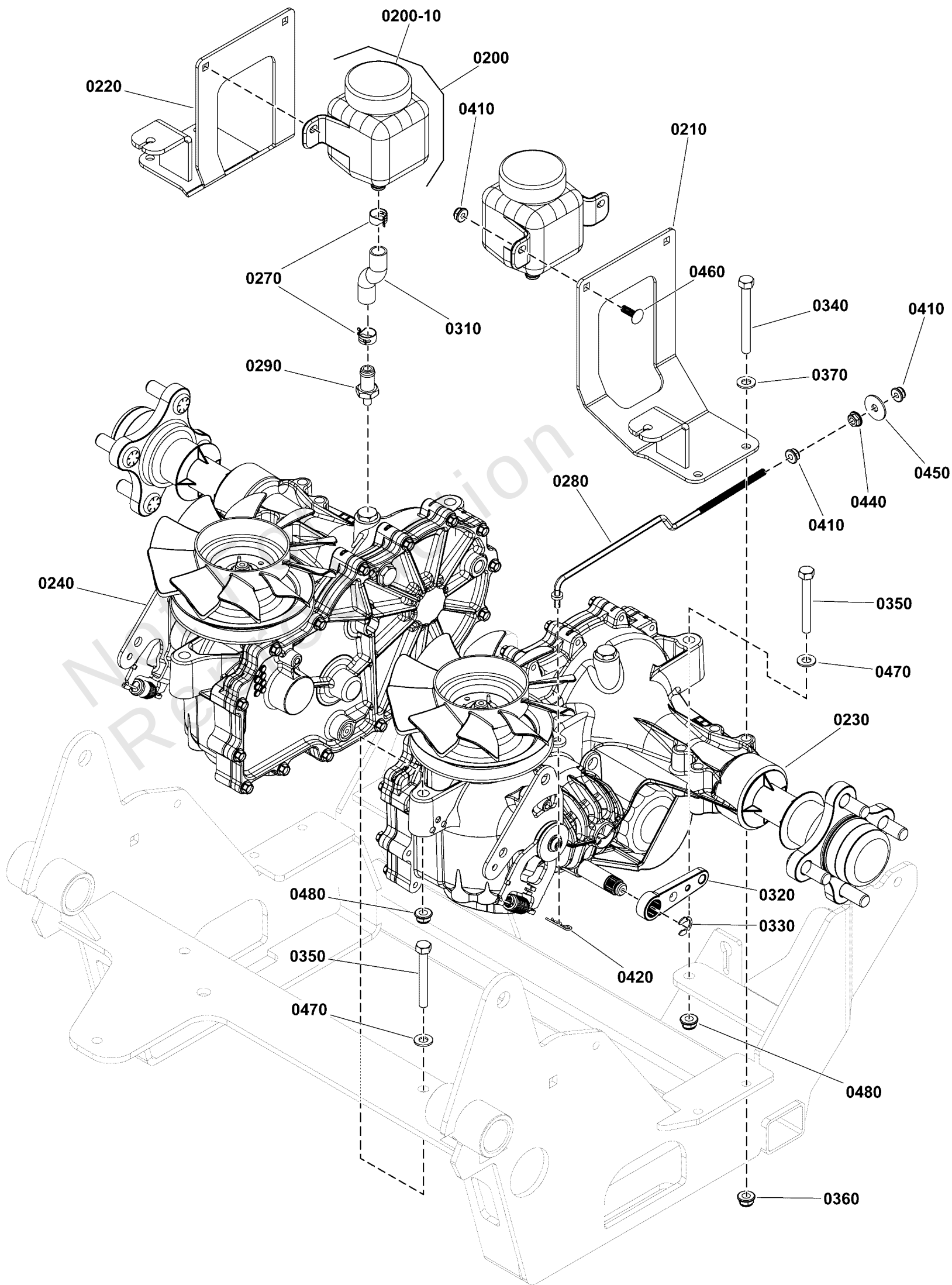
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911



### ***Fuel Tank & Mount Group***

| REF NO  | PART NO    | QTY | DESCRIPTION                             |
|---------|------------|-----|-----------------------------------------|
| 0010    | 5103176    | 1   | TANK, FUEL - LH, IS500 & IS1500         |
| 0010-10 | 5022917    | 1   | GAUGE, FUEL, 12<br>-(SV)                |
| 0010-20 | 5022917X1  | 1   | GROMMET, FUEL GAUGE (SV)<br>-(SV)       |
| 0020    | 5049948    | 1   | TANK, FENDER, CITATION/ZT4000 - RH      |
| 0030    | 5103005    | 1   | FUEL CAP, 3-1/2", MANAGED VENT OUT, 12" |
| 0040    | 5400250B   | 2   | PLATE, BADGE - IS1500 - RED             |
| 0050    | 5025386    | 6   | SCREW, Allen Head, #10-24 x 3/8"        |
| 0060    | 5025011X8  | 2   | BOLT, 5/16-18 X 1" GRD5 YZ              |
| 0070    | 5025292    | 10  | WASHER, 5/16 GRADE 9, FLAT              |
| 0080    | 5025170    | 10  | WASHER, 5/16 LOCK CZ                    |
| 0100    | 5025293    | 4   | WASHER, 3/8" GR. 9 FLAT                 |
| 0110    | 5025394    | 4   | NUT, 3/8 - 16 HEX NYLOCK FLANGE         |
| 0120    | 5025013X10 | 4   | BOLT, 3/8-16 X 1-1/4" GD5 CZ            |
| 0130    | 5416831A   | 1   | WELD, FUEL TANK MOUNT- LH - BLK         |
| 0140    | 5416830A   | 1   | WELD, FUEL TANK MOUNT- RH - BLK         |
| 0150    | 5025011X6  | 8   | BOLT, 5/16-18 X 3/4 GD5                 |



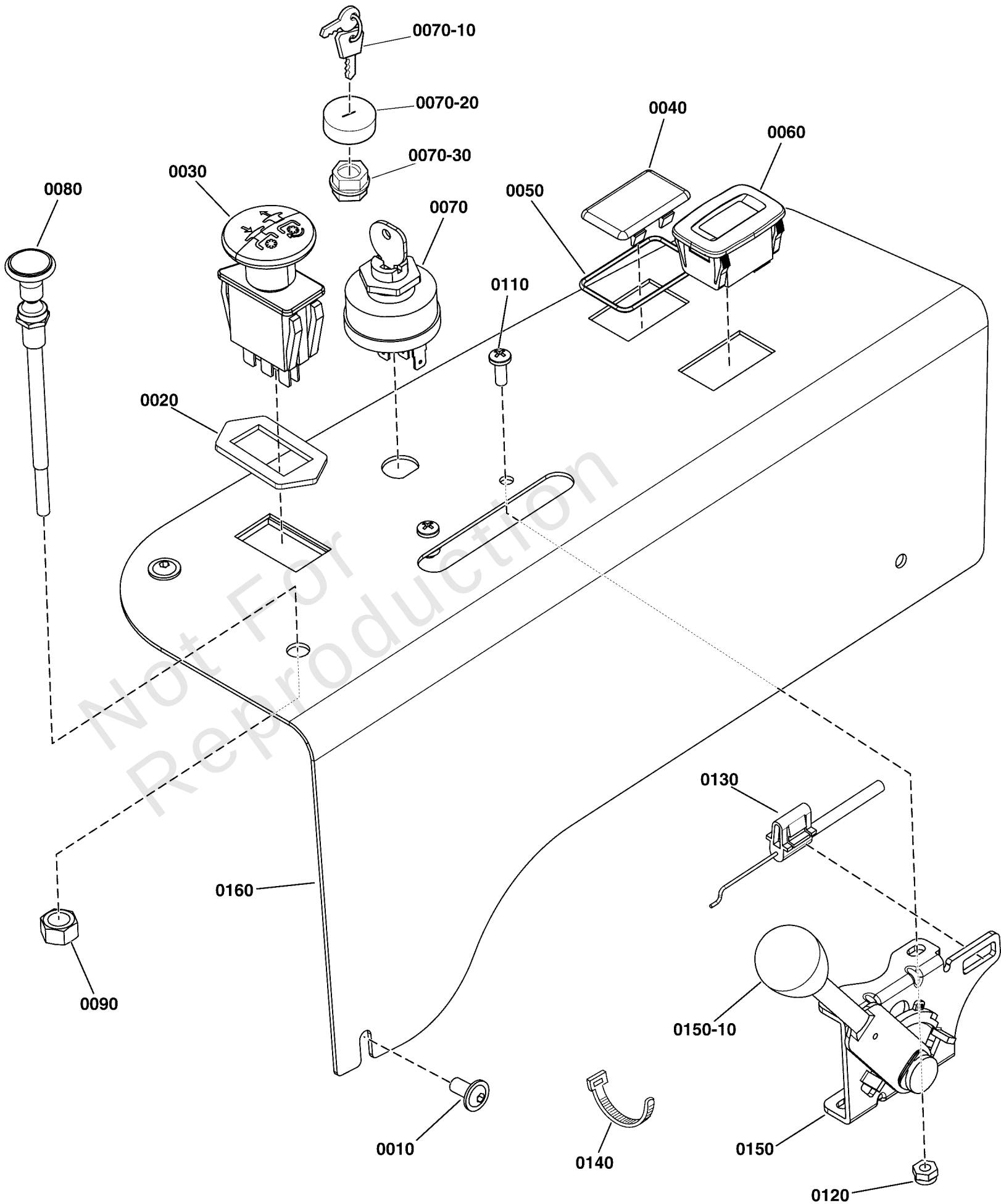
## Hydraulic Group

| REF NO  | PART NO     | QTY | DESCRIPTION                                                              |
|---------|-------------|-----|--------------------------------------------------------------------------|
| 0200    | 5100473     | 2   | RESERVOIR, HYDRO OIL, 350 ML                                             |
| 0200-10 | 5100778X1   | 2   | RESERVIOR CAP                                                            |
| 0210    | 5409905AA   | 1   | WELD, MOUNT, TANK, HYD, LH, IS600 - BLK                                  |
| 0220    | 5409909AA   | 1   | WELD, MOUNT, TANK, HYD, RH, IS600 - BLK                                  |
| 0230    | 5105085     | 1   | TRANSAXLE, ZT3200, LH, ZJ-KYEF-8T7C-14RX<br>-(S/N: 4001547047 and below) |
| 0230    | 5109252     | 1   | TRANSAXLE, ZT-3200, LH,ZJ-KYEF-9T7C-14RX<br>-(S/N: 4001547048 and above) |
| 0240    | 5105086     | 1   | TRANSAXLE, ZT3200, RH, ZJ-GYEF-8T7B-14RX<br>-(S/N: 4001547047 and below) |
| 0240    | 5109251     | 1   | TRANSAXLE, ZT-3200, RH,ZJ-GYEF-9T7B-14RX<br>-(S/N: 4001547048 and above) |
| 0270    | 5023268     | 4   | CLAMP, Hose                                                              |
| 0280    | 5103631     | 2   | ROD, DUMP VALVE, S125XT, CZ                                              |
| 0290    | 5103687     | 2   | FITTING, #6 O-RING 1/2 HOSE BARB, STRAIGHT                               |
| 0310    | 5103774X2P5 | 2   | TUBING, TYGON, .50 ID X 2.50                                             |
| 0320    | 5103750     | 2   | BRAKE ARM, ZT3400                                                        |
| 0330    | 5104055     | 2   | E-CLIP, BRAKE ARM, ZT3100 & ZT3400                                       |
| 0340    | 5025011X24  | 4   | BOLT, 5/16-18 X 3" GD5 YZ                                                |
| 0350    | 5025013X20  | 4   | BOLT, 3/8-16 X 2-1/2" GD5 CZ                                             |
| 0360    | 5025392     | 8   | NUT, 5/16-18 HEX NYLOCK FLANGE NUT                                       |
| 0370    | 5025155     | 8   | WASHER, 5/16" SAE                                                        |
| 0410    | 5025391     | 8   | NUT, 1/4-20 Hex Nylock Flange                                            |
| 0420    | 5025211     | 2   | PIN, HAIR, .0585 X 1-1/8, 1/4 EYE, YZ                                    |
| 0440    | 5025126     | 2   | NUT, 1/4-20 HEX SERR. FLANGE                                             |
| 0450    | 5025288     | 2   | WASHER, 1/4" Fender                                                      |
| 0460    | 80003518    | 4   | BOLT,1/4-20X0.750,GR5,STD NECK,SQ,ZC/CL                                  |
| 0470    | 5025156     | 4   | WASHER, 3/8 SAE                                                          |
| 0480    | 5025394     | 4   | NUT, 3/8 - 16 HEX NYLOCK FLANGE                                          |

**Instrument Control Panel Group**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911



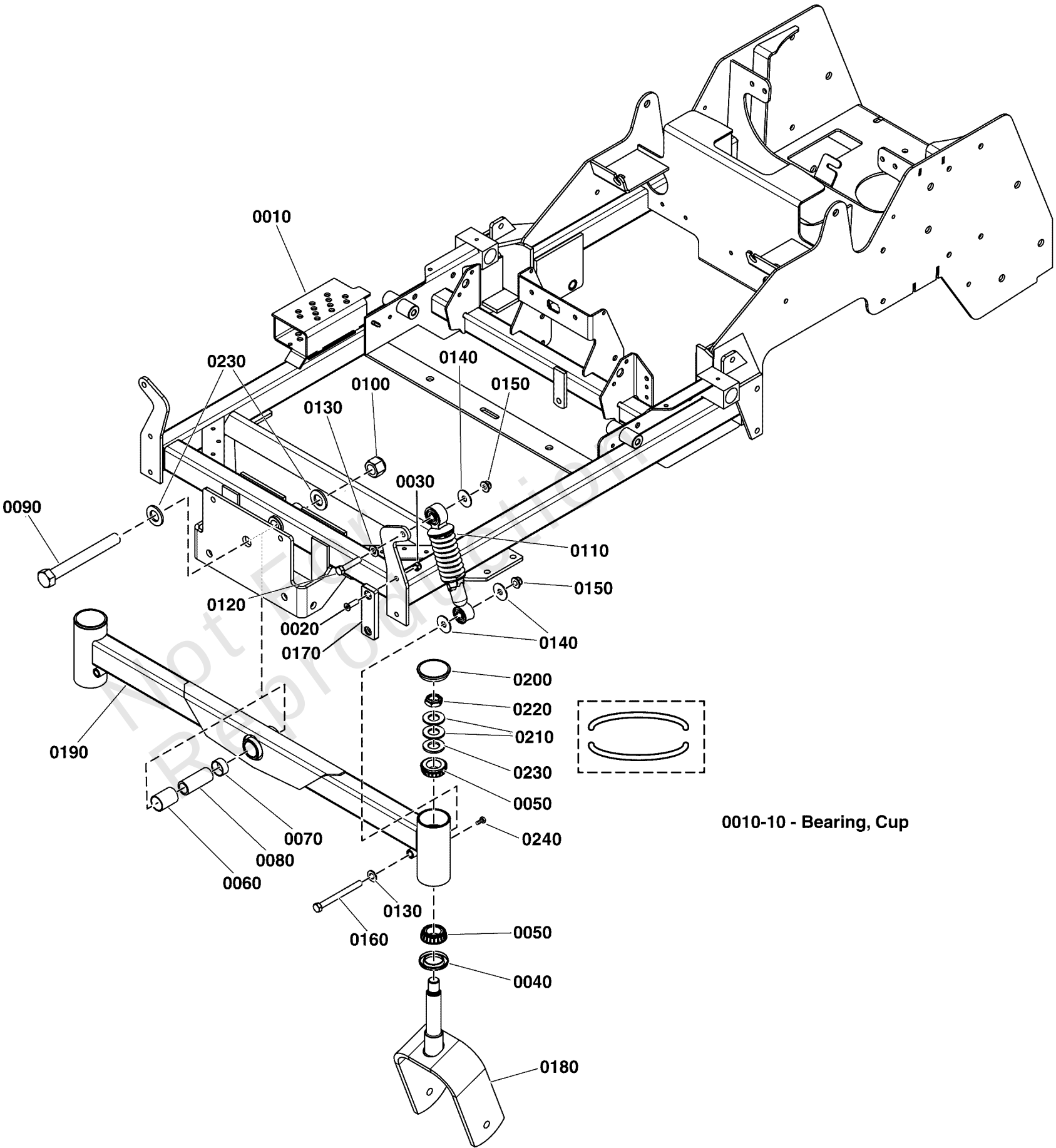
## Instrument Control Panel Group

| REF NO  | PART NO   | QTY | DESCRIPTION                                                             |
|---------|-----------|-----|-------------------------------------------------------------------------|
| 0010    | 5025299X4 | 3   | SCREW, ALLEN HEAD 1/4-20X.500 ZINC PHOS                                 |
| 0020    | 5022222   | 1   | RING, SWITCH RETAINER                                                   |
| 0030    | 1722887   | 1   | SWITCH-PTO PUSH                                                         |
| 0040    | 1709188   | 1   | PLUG, .820X1.44 HOLE, BLACK PLASTIC                                     |
| 0050    | 5022269   | 1   | O-RING, 7/8" ID X 1/16" W                                               |
| 0060    | 84008768  | 1   | HOURMETER<br>-(Replaces hour meters equipped with two individual wires) |
| 0060    | 84008510  | 1   | HOURMETER<br>-(Replaces hour meters equipped with 6 pin connectors)     |
| 0070    | 5020927   | 1   | SWITCH, IGNITION, 6 POST                                                |
| 0070-10 | 5022789   | 1   | KEY, IGNITION MOLDED SET<br>-(SV)                                       |
| 0070-20 | 5022790   | 1   | COVER, PLASTIC, SNAP ON<br>-(SV)                                        |
| 0070-30 | 5022791   | 1   | PLASTIC NUT<br>-(SV)                                                    |
| 0080    | 5047779   | 1   | CABLE, CHOKE CONTROL, 51" (Z)                                           |
| 0090    | 5025309   | 1   | NUT, 3/8-24 Hex Jam                                                     |
| 0110    | 5025179X6 | 2   | SCREW, #10-24 X 3/4" ROUND PHILLIPS                                     |
| 0120    | 5025271   | 2   | NUT, Hex, Nylon Lock, #10-24                                            |
| 0130    | 5101073   | 1   | CABLE, THROTTLE, 42"                                                    |
| 0140    | 5021030   | 2   | TIE, SELF-LOCKING, 6"                                                   |
| 0150    | 5101537   | 1   | LEVER, THROTTLE CONTROL, HEAVY-DUTY                                     |
| 0150-10 | 5046360X1 | 1   | THROTTLE CONTROL HANDLE/KNOB<br>-(SV)                                   |
| 0160    | 5410303A  | 1   | PLATE, CONTROL PANEL, IS600Z - BLK                                      |

**Main Frame & Front Suspension Group**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911



## Main Frame & Front Suspension Group

| REF NO  | PART NO    | QTY | DESCRIPTION                                                   |
|---------|------------|-----|---------------------------------------------------------------|
| 0010    | -----      | 1   | WELD, MAIN FRAME, 600Z - RED<br>-(Refer to Note: *)           |
| 0010-10 | 5020883    | 1   | CUP, BEARING (SV)<br>-(SV)                                    |
| 0020    | 5025594    | 4   | SCREW, 5/16-18 X 1, PHILLIPS HD, BZ                           |
| 0030    | 5025057    | 4   | NUT, Hex, Nylon Locking, 5/16-18                              |
| 0040    | 5021072    | 2   | SEAL, GREASE                                                  |
| 0050    | 5020884    | 4   | BEARING, TAPERED ROLLER, 1"                                   |
| 0060    | 5022852    | 1   | PIVOT BEARING, 1.00" X 1.125" OD X 1.50"                      |
| 0070    | 5100358    | 1   | PIVOT BEARING, 1.00" X 1.125" OD X .50"                       |
| 0080    | 5047489    | 1   | SPACER, .75 x 1.00 x 2.38                                     |
| 0090    | 5025265X52 | 1   | BOLT, 3/4-16 X 6-1/2" YZ GD5                                  |
| 0100    | 5025284    | 1   | NUT, Hex, Nylon Lock, 3/4-16                                  |
| 0110    | 5023483    | 2   | SHOCK & SPRING ASSEMBLY                                       |
| 0120    | 5025013X14 | 2   | BOLT, 3/8-16 X 1-3/4" GD5 CZ                                  |
| 0130    | 5025156    | 4   | WASHER, 3/8 SAE                                               |
| 0140    | 5025165    | 6   | WASHER, 3/8" Fender                                           |
| 0150    | 5025394    | 4   | NUT, 3/8 - 16 HEX NYLOCK FLANGE                               |
| 0160    | 5025013X32 | 2   | BOLT, 3/8-16 X 4" GD5 CZ                                      |
| 0170    | 5102702    | 2   | PAD, FRICTION, .375 X 1.25 X 4.00                             |
| 0180    | 5402208B   | 2   | WELD, CASTER YOKE - RED MODEL<br>-(S/N: 4000771923 and below) |
| 0180    | 5419196B   | 2   | WELD, CASTER YOKE - RED<br>-(S/N: 4000771924 and above)       |
| 0190    | 5417067B   | 1   | WELD, FRONT PIVOT - RED                                       |
| 0200    | 5109845    | 2   | CAP, GREASE, LOW PROFILE                                      |
| 0210    | 5025449    | 4   | WASHER, BELLEVILLE - 1.500 X .755                             |
| 0220    | 5025448    | 2   | NUT, 3/4-16, HEX JAM NYLON LOCK                               |
| 0230    | 5025160    | 4   | WASHER, 3/4 SAE                                               |
| 0240    | 5025457    | 2   | BOLT, 1/4-28 X 1/2, GD5 YZ                                    |

### Footnotes:

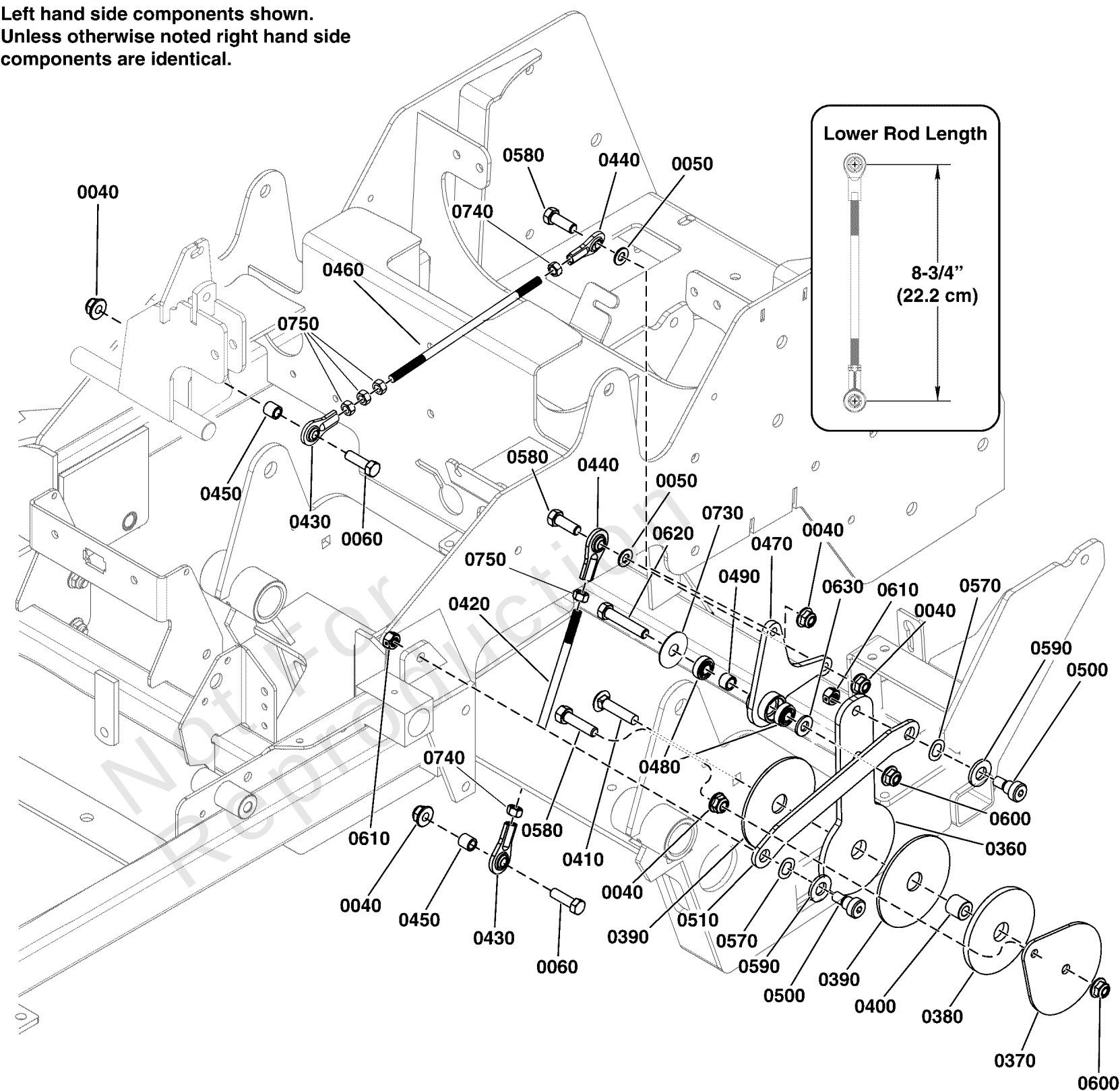
Note: \*If replacing contact the Service Department at 1-800-933-6175.

**Motion Control Group - Control System**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911

Left hand side components shown.  
Unless otherwise noted right hand side  
components are identical.



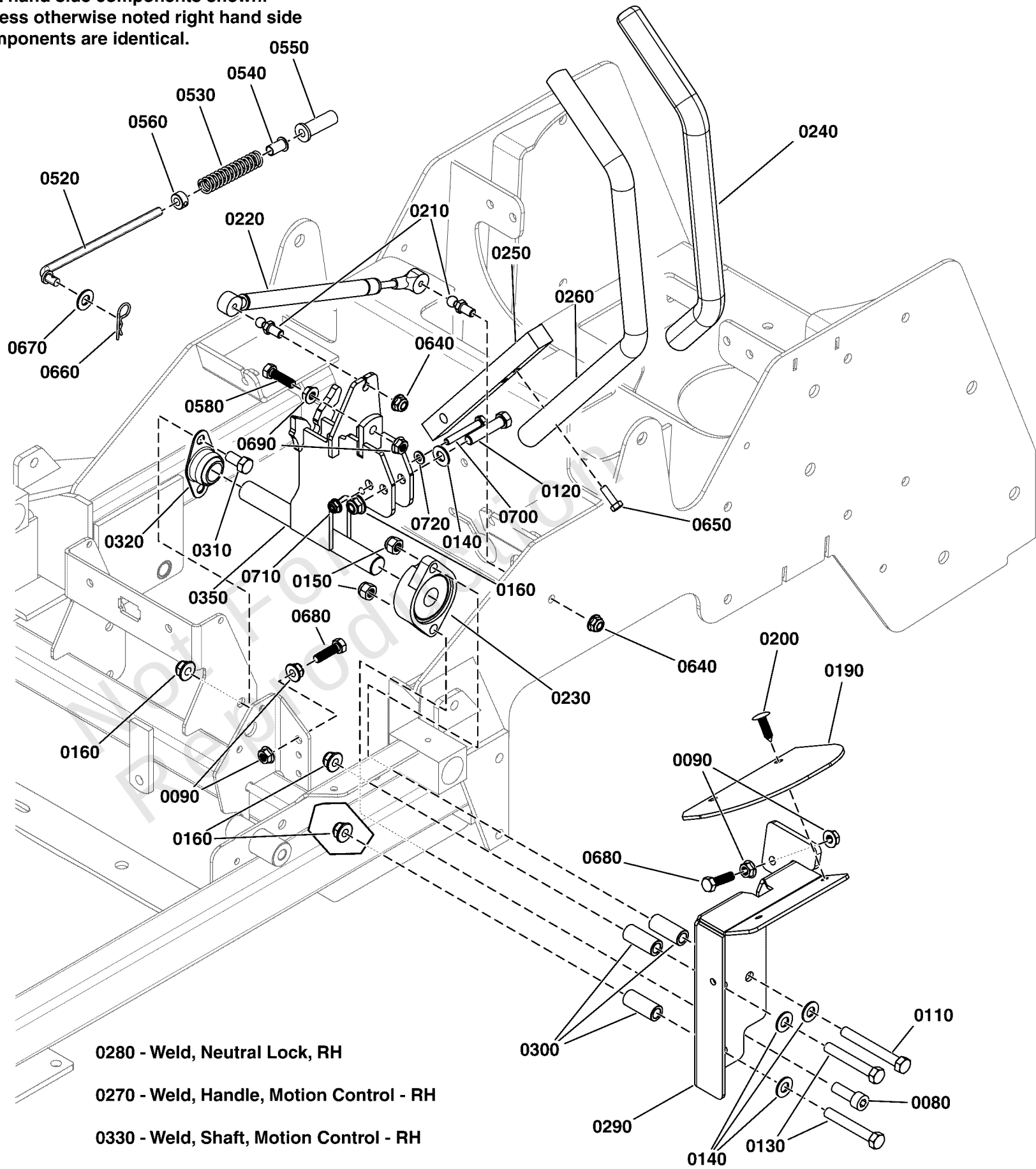
### ***Motion Control Group - Control System***

| REF NO | PART NO      | QTY | DESCRIPTION            |
|--------|--------------|-----|------------------------|
| 0040   | 703115       | 10  | NUT                    |
| 0050   | 703350       | 4   | WASHER                 |
| 0060   | 5025055X12SM | 4   | BOLT, 5/16-18 X 1-1/2  |
| 0360   | 5410268YP    | 2   | PLATE, CTRL SYST ARM   |
| 0370   | 5410271AYP   | 2   | PLATE, CTRL SYSTEM LK  |
| 0380   | 5103704YP    | 2   | PAD, .77 X 3.50 X .25  |
| 0390   | 5103672YP    | 4   | PAD, CONTROL SYSTEM    |
| 0400   | 5103705YP    | 2   | SPACER, .39X.75X.69    |
| 0410   | 5025146X12YP | 2   | BOLT, 3/8-16 X 1-1/2   |
| 0420   | 5103674YP    | 2   | ROD, 5/16X7.00, LH-RH  |
| 0430   | 5104578YP    | 4   | JOINT-BALL             |
| 0440   | 5104579FS    | 4   | JOINT, Ball            |
| 0450   | 5102148YP    | 4   | SPACER, .33 X .50X.50  |
| 0460   | 5103673YP    | 2   | ROD, 5/16X8.38, LH-RH  |
| 0470   | 5103718YP    | 2   | PIVOT, CONTROL SYSTEM  |
| 0480   | 5102003YP    | 4   | BEARING, .375ID        |
| 0490   | 5103676YP    | 2   | SPACER, .39X.55X.38    |
| 0500   | 5025356SM    | 4   | BOLT, 3/8-16 X 3/8",   |
| 0510   | 5410270AYP   | 2   | LINK, Control          |
| 0570   | 5103784YP    | 4   | WAVE WASHER            |
| 0580   | 5025055X10YP | 6   | BOLT, 5/16-18 X 1-1/4  |
| 0590   | 5025440SM    | 4   | WASHER, 1/2" YELLOW    |
| 0600   | 5025394SM    | 4   | NUT, 3/8-16 HEX NYLOCK |
| 0610   | 5025100SM    | 4   | NUT, 3/8-16 HEX SIDE   |
| 0620   | 703589       | 2   | CAPSCREW, 3/8-16X2     |
| 0630   | 5025293SM    | 2   | WASHER, 3/8"           |
| 0730   | 5025165SM    | 2   | WASHER, 3/8" FENDER    |
| 0740   | 5023212SM    | 4   | NUT, 5/16-24 HEX, LH   |
| 0750   | 5025033FS    | 8   | NUT                    |

# Motion Control Group - Handles & Dampeners

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5901911

Left hand side components shown.  
Unless otherwise noted right hand side  
components are identical.



- 0280 - Weld, Neutral Lock, RH
- 0270 - Weld, Handle, Motion Control - RH
- 0330 - Weld, Shaft, Motion Control - RH

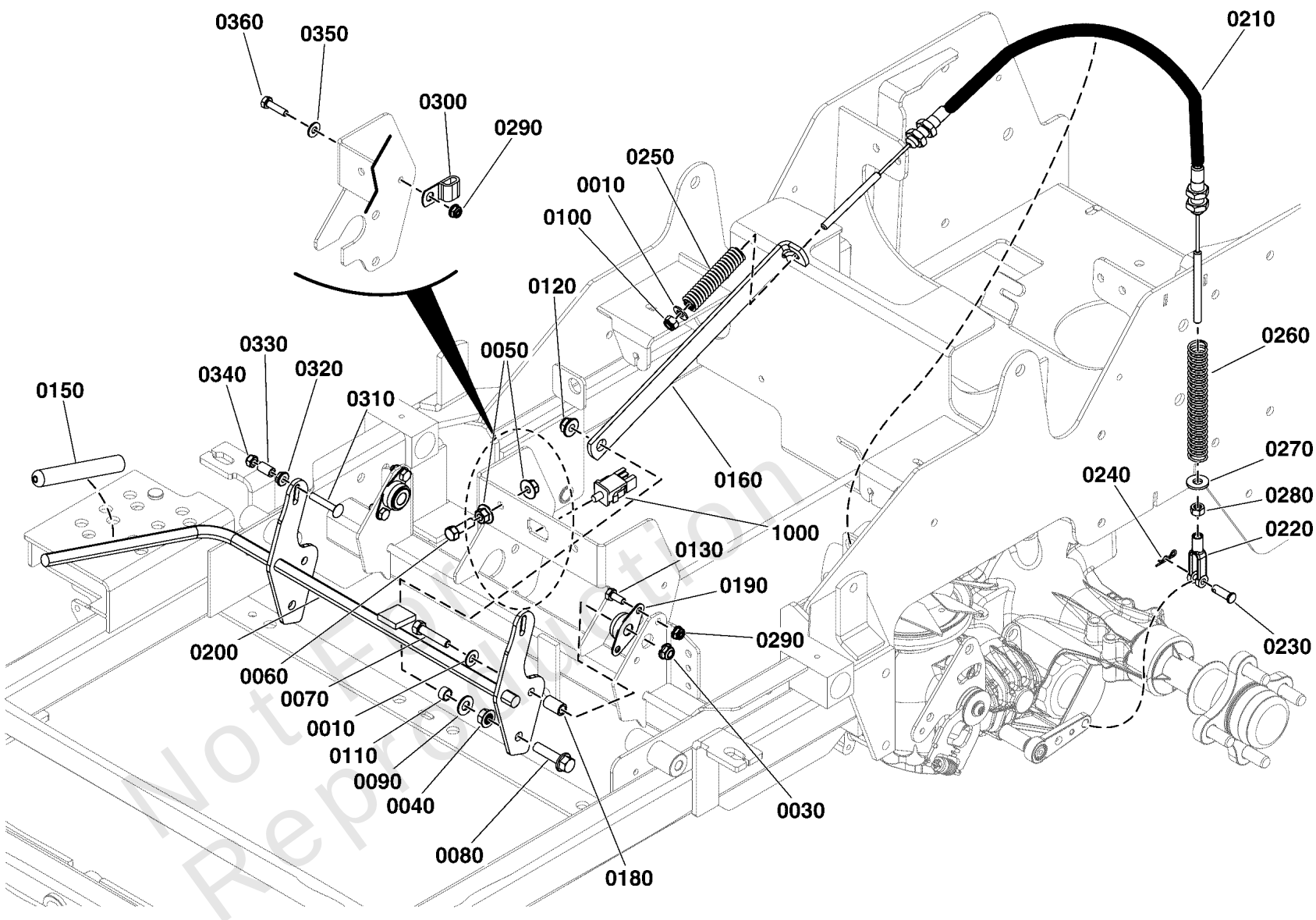
## Motion Control Group - Handles & Dampeners

| REF NO | PART NO    | QTY | DESCRIPTION                                    |
|--------|------------|-----|------------------------------------------------|
| 0080   | 5025327    | 2   | BOLT, Allen Head, 3/8-16 x 1-1/4               |
| 0090   | 5025127    | 8   | NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)       |
| 0110   | 5025013X24 | 2   | BOLT, 3/8-16 X 3" GD5 CZ                       |
| 0120   | 5025013X14 | 2   | BOLT, 3/8-16 X 1-3/4" GD5 CZ                   |
| 0130   | 5025013X20 | 4   | BOLT, 3/8-16 X 2-1/2" GD5 CZ                   |
| 0140   | 5025156    | 8   | WASHER, 3/8 SAE                                |
| 0150   | 5025096    | 4   | NUT, 3/8-16 HEX NYLON LOCK                     |
| 0160   | 5025394    | 10  | NUT, 3/8 - 16 HEX NYLOCK FLANGE                |
| 0190   | 5100948    | 2   | GUARD, RUBBER MOT CTRS - IS500Z                |
| 0200   | 5025431    | 4   | PUSH RIVET (TREE TYPE), BLACK                  |
| 0210   | 5101307SM  | 4   | 10MM BALL STUD, 5/16-                          |
| 0220   | 5100940    | 2   | DAMPENER, CONTROL, #(P6709/P3610)              |
| 0230   | 5021499    | 2   | BEARING, FLANGE                                |
| 0240   | 5104722    | 2   | GRIP, FOAM, 1" ID, 16" LONG                    |
| 0250   | 5047004A   | 2   | MOUNT, CONTROL ARM - BLK                       |
| 0260   | 5414431A   | 1   | WELD, HANDLE MOTION CNTRL, 19.0, 1.0, LH - BLK |
| 0270   | 5414432A   | 1   | WELD, HANDLE MOTION CNTRL, 19.0, 1.0, RH - BLK |
| 0280   | 5416051A   | 1   | WELD, NEUTRAL LOCK - RH - BLK                  |
| 0290   | 5416052A   | 1   | WELD, NEUTRAL LOCK - LH - BLK                  |
| 0300   | 5048264    | 6   | SPACER, .39 X .63 X 1.50, CZ                   |
| 0310   | 5025013X6  | 4   | BOLT, 3/8-16 X 3/4" GD5 CZ                     |
| 0320   | 5021098    | 2   | BEARING, BRONZE FLANGE, 3/4"                   |
| 0330   | 5415891A   | 1   | WELD, SHAFT MOTION CONTROL, RH - BLK           |
| 0350   | 5415890A   | 1   | WELD, SHAFT MOTION CONTROL, LH - BLK           |
| 0520   | 5100947    | 2   | ROD, NEUTRAL RETURN, CZ                        |
| 0530   | 5022645    | 2   | SPRING, REVERSE RETURN                         |
| 0540   | 5023260    | 2   | BUSHING, FLANGE 3/8ID X 7/8 LONG               |
| 0550   | 5104375    | 2   | FLANGED BUSHING, 3/8IDX.63ODX.8125FL           |
| 0560   | 5010546    | 2   | COLLAR, 3/8" Set                               |
| 0580   | 5025055X10 | 2   | BOLT, 5/16-18 X 1-1/4 GD5 TFL, CZ              |
| 0640   | 5025392    | 4   | NUT, 5/16-18 HEX NYLOCK FLANGE NUT             |
| 0650   | 80003531   | 4   | SCREW, 5/16-18x0.750, GR5, WHIZ-LOCK, ZC       |
| 0660   | 5025210    | 2   | 3/32 X 1-5/8 HAIR PIN CLIP                     |
| 0670   | 5025156    | 2   | WASHER, 3/8 SAE                                |
| 0680   | 5025055X14 | 4   | BOLT, 5/16-18 X 1-3/4 TFL, GD5 YZ              |
| 0690   | 5025139    | 4   | NUT, 5/16-18 HEX SERRATED FLANGE (LARGE)       |
| 0700   | 5025010X14 | 2   | BOLT, 1/4 X 20 X 1-3/4 GD5 YZ                  |
| 0710   | 5025391    | 2   | NUT, 1/4-20 Hex Nylock Flange                  |
| 0720   | 5025154    | 2   | WASHER, 1/4 SAE                                |

**Parking Brake Group**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911



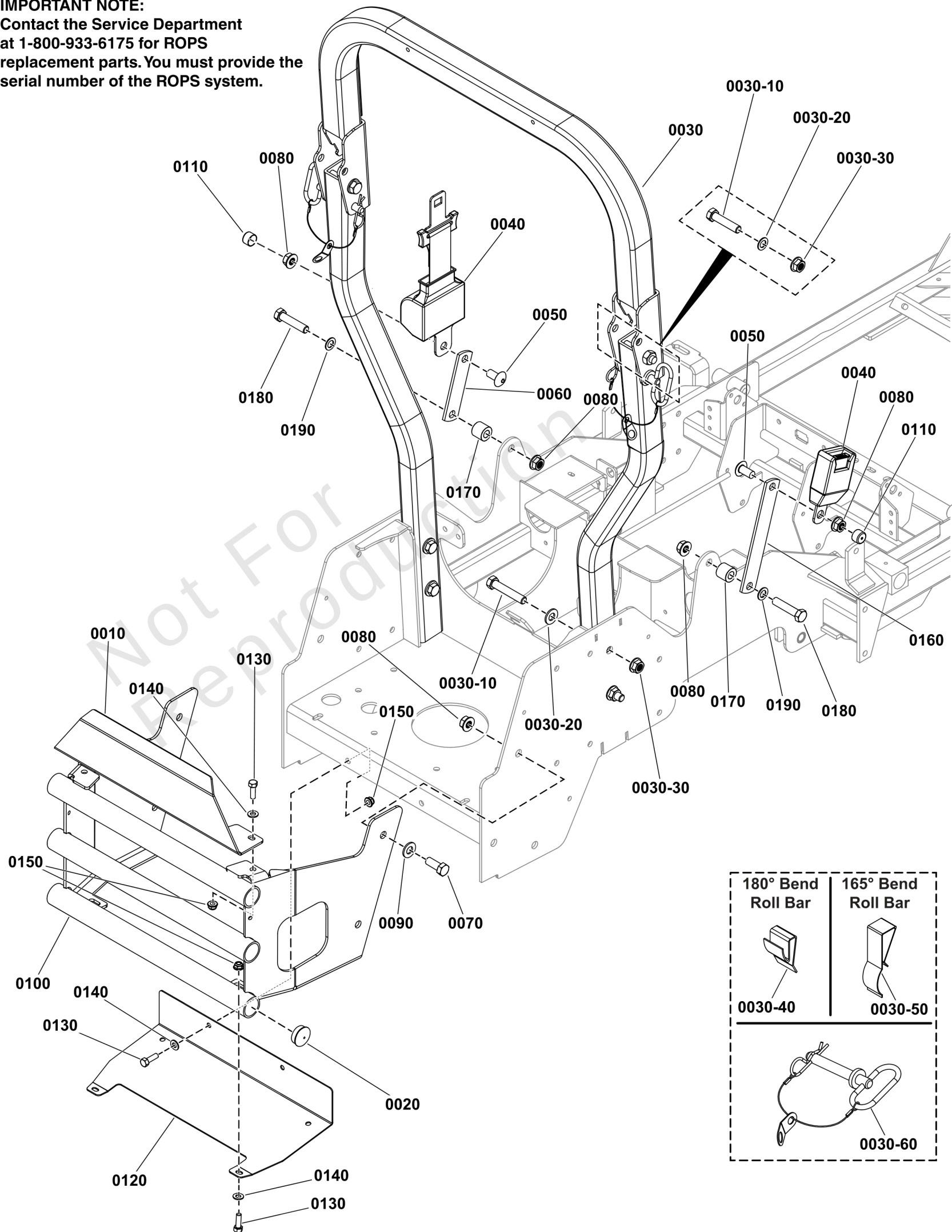
## Parking Brake Group

| REF NO | PART NO    | QTY | DESCRIPTION                               |
|--------|------------|-----|-------------------------------------------|
| 0010   | 5025155    | 2   | WASHER, 5/16" SAE                         |
| 0030   | 5025392    | 2   | NUT, 5/16-18 HEX NYLOCK FLANGE NUT        |
| 0040   | 5025128    | 2   | NUT, 3/8-16 Hex Large Serrated Flange     |
| 0050   | 5025139    | 2   | NUT, 5/16-18 HEX SERRATED FLANGE (LARGE)  |
| 0060   | 5025011X9  | 1   | BOLT, 5/16-18 X 1-1/8 GD5 CZ              |
| 0070   | 5025011X12 | 2   | BOLT, 5/16-18 X 1-1/2" GD5 YZ             |
| 0080   | 5025390X12 | 2   | BOLT, 3/8-16 X 1-1/2, FLANGE, GD 5, CZ    |
| 0090   | 5025156    | 2   | WASHER, 3/8 SAE                           |
| 0100   | 5025045    | 2   | NUT, 5/16-24 HEX NYLON LOCK               |
| 0110   | 5041930    | 2   | SPACER, .38 X .50 X .27, CZ               |
| 0120   | 5025394    | 2   | NUT, 3/8 - 16 HEX NYLOCK FLANGE           |
| 0130   | -----      | 4   | HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR     |
| 0150   | 5021880    | 1   | GRIP, FOAM, .475 X 4.35 X .095            |
| 0160   | 5410328A   | 2   | LINK, BRAKE LOCK, S125XT - BLK            |
| 0180   | 5103660    | 2   | SPACER, .32 X .50 X .83, CZ               |
| 0190   | 5101123    | 2   | BEARING, 1/2 FLANGED, PLASTIC BALL        |
| 0200   | 5415910A   | 1   | WELD, BRAKE SHAFT, 700 - BLK              |
| 0210   | 5104276    | 2   | CABLE, PARKING BRAKE, 31" (787.9 MM)      |
| 0220   | 5100301    | 2   | CLEVIS, 5/16-18, 5/16" PIN HOLE, STEEL    |
| 0230   | 5025213X8  | 2   | PIN, CLEVIS, 5/16 X 1, PLATED             |
| 0240   | 5025211    | 2   | PIN, HAIR, .0585 X 1-1/8, 1/4 EYE, YZ     |
| 0250   | 5023242    | 2   | SPRING-COMP, .496ID X 3.00LG X .112WR     |
| 0260   | 5021494    | 2   | SPRING-COMP, .600ID X 5.50LG X .080WR     |
| 0270   | 5025337    | 2   | WASHER, 5/16" USS                         |
| 0280   | 5025032    | 2   | NUT, 5/16-18 HEX                          |
| 0290   | 5025391    | 5   | NUT, 1/4-20 Hex Nylock Flange             |
| 0300   | 5025430    | 1   | CLAMP, 5/16", DOUBLE, WIRE & TUBE         |
| 0310   | 80003564   | 2   | BOLT, 1/4-20 X 1.500, GR5, SQ, ZINC/CLEAR |
| 0320   | 5025126    | 2   | NUT, 1/4-20 HEX SERR. FLANGE              |
| 0330   | 5041483    | 2   | SPACER, .52 X .38 X .63, CZ               |
| 0340   | 5025095    | 2   | NUT, 1/4-20 HEX NYLON LOCK                |
| 0350   | 5025154    | 1   | WASHER, 1/4 SAE                           |
| 0360   | 5025010X6  | 1   | BOLT, 1/4"-20 X 3/4" GD5 YZ               |
| 1000   | -----      | 1   | Refer to: Electrical Group                |

# Rear Bumper and ROPS Group - Models with Folding Roll Bars

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5901911

**IMPORTANT NOTE:**  
Contact the Service Department  
at 1-800-933-6175 for ROPS  
replacement parts. You must provide the  
serial number of the ROPS system.



## Rear Bumper and ROPS Group - Models with Folding Roll Bars

| REF NO  | PART NO     | QTY | DESCRIPTION                                                              |
|---------|-------------|-----|--------------------------------------------------------------------------|
| 0010    | 5410480B    | 1   | PLATE, CARB PROTECTOR - RED                                              |
| 0020    | 5023484     | 6   | PLUG, PANEL, 1.25 - BLACK                                                |
| 0030    | -----       | 1   | ROPS, FOLDING, IS600<br>-(Refer to Note: *)                              |
| 0030-10 | 5025017X22  | 6   | BOLT, 1/2-13 X 2-3/4 GD5 CZ                                              |
| 0030-20 | 5025158     | 6   | WASHER, 1/2 SAE                                                          |
| 0030-30 | 5025396     | 6   | NUT, Hex Flange, Nylock, 1/2-13                                          |
| 0030-40 | 5103403X1YP | 2   | ANTI-RATTLE SPRING, FEMCO #230328972 (SV)<br>-(180 Degree Bend Roll Bar) |
| 0030-50 | 5105140X1YP | 2   | ANTI-RATTLE SPRING, ROPS, 165 DEGREE (SV)<br>-(165 Degree Bend Roll Bar) |
| 0030-60 | 5100013SM   | 2   | PIN, HITCH, .50 X 3.2                                                    |
| 0040    | 5100139     | 1   | SEAT BELT, RETRACTING - ASSM - RED                                       |
| 0050    | 5100267     | 2   | SCREW, 1/2 - 13 X 1.00 SCHS                                              |
| 0060    | 5401044A    | 1   | EXTENSION, SEAT BELT - BLK                                               |
| 0070    | 5025017X8   | 4   | BOLT, 1/2-13 X 1, GD5 YZ                                                 |
| 0080    | 5025332     | 8   | NUT, 1/2-13 Hex Side Lock                                                |
| 0090    | 5025158     | 4   | WASHER, 1/2 SAE                                                          |
| 0100    | 5418286B    | 1   | WELD, BUMPER, IS600 - RED                                                |
| 0110    | 5101049     | 2   | CAP, VINYL - .750 X .50 - BLK                                            |
| 0120    | 5418287A    | 1   | PLATE, HEAT SHIELD - BLK                                                 |
| 0130    | 5025011X8   | 6   | BOLT, 5/16-18 X 1" GRD5 YZ                                               |
| 0140    | 5025292     | 6   | WASHER, 5/16 GRADE 9, FLAT                                               |
| 0150    | 5025392     | 6   | NUT, 5/16-18 HEX NYLOCK FLANGE NUT                                       |
| 0160    | 5416845A    | 1   | BAR, SEAT BELT EXTENSION, 600Z - BLK                                     |
| 0170    | 5044673     | 2   | SPACER, .52 X 1.00 X .88, PM, CZ                                         |
| 0180    | 5025017X18  | 2   | BOLT, 1/2-13 X 2-1/4" GD5 CZ                                             |
| 0190    | 80003590    | 2   | WASHER, .516IDX.875ODX.06,FLAT,ZC/CL                                     |

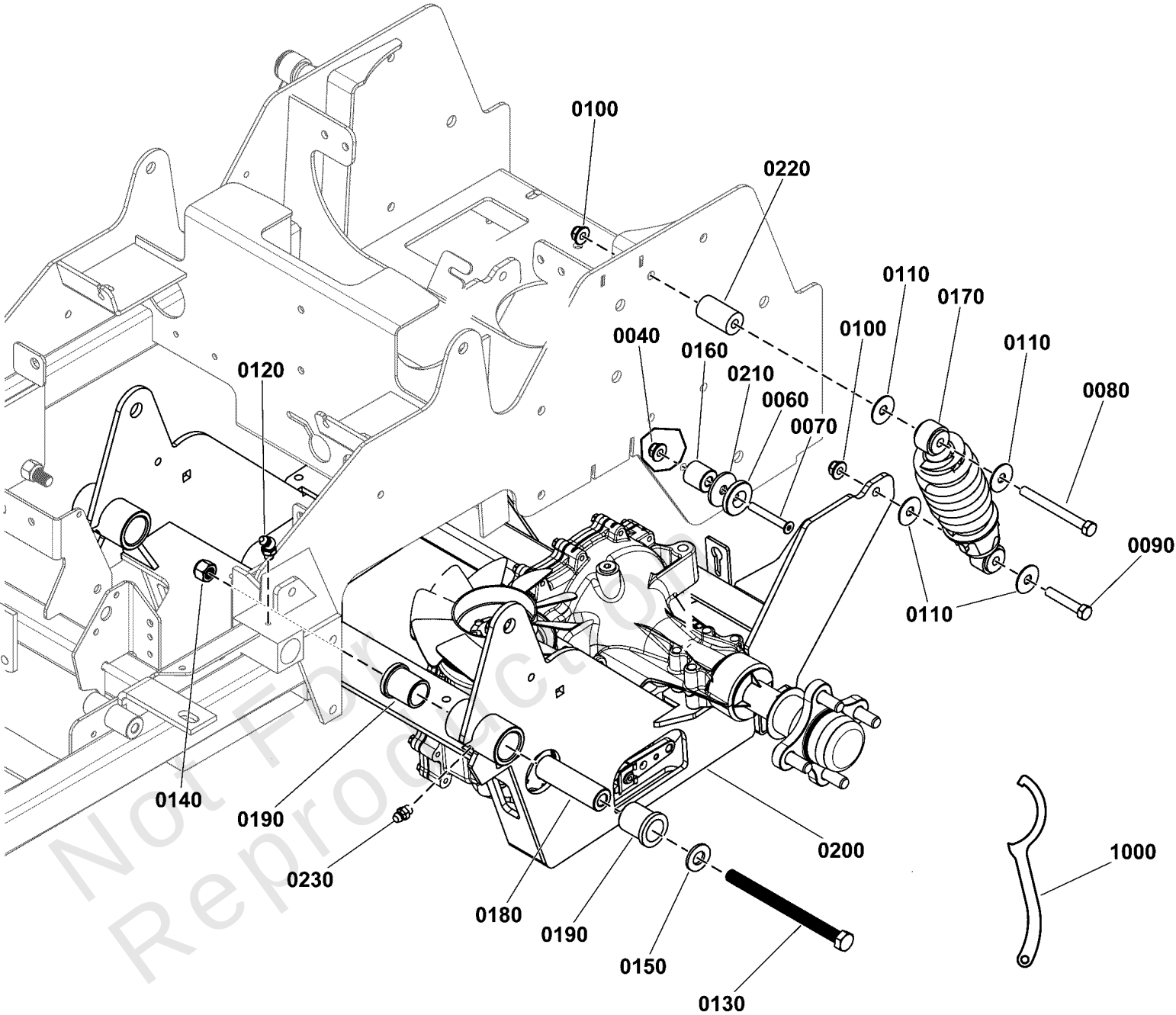
### Footnotes:

Note: \*Contact the Service Department at 1-800-933-6175 for roll bar replacement parts. You must provide the serial number of the roll bar system.

Rear Suspension Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911



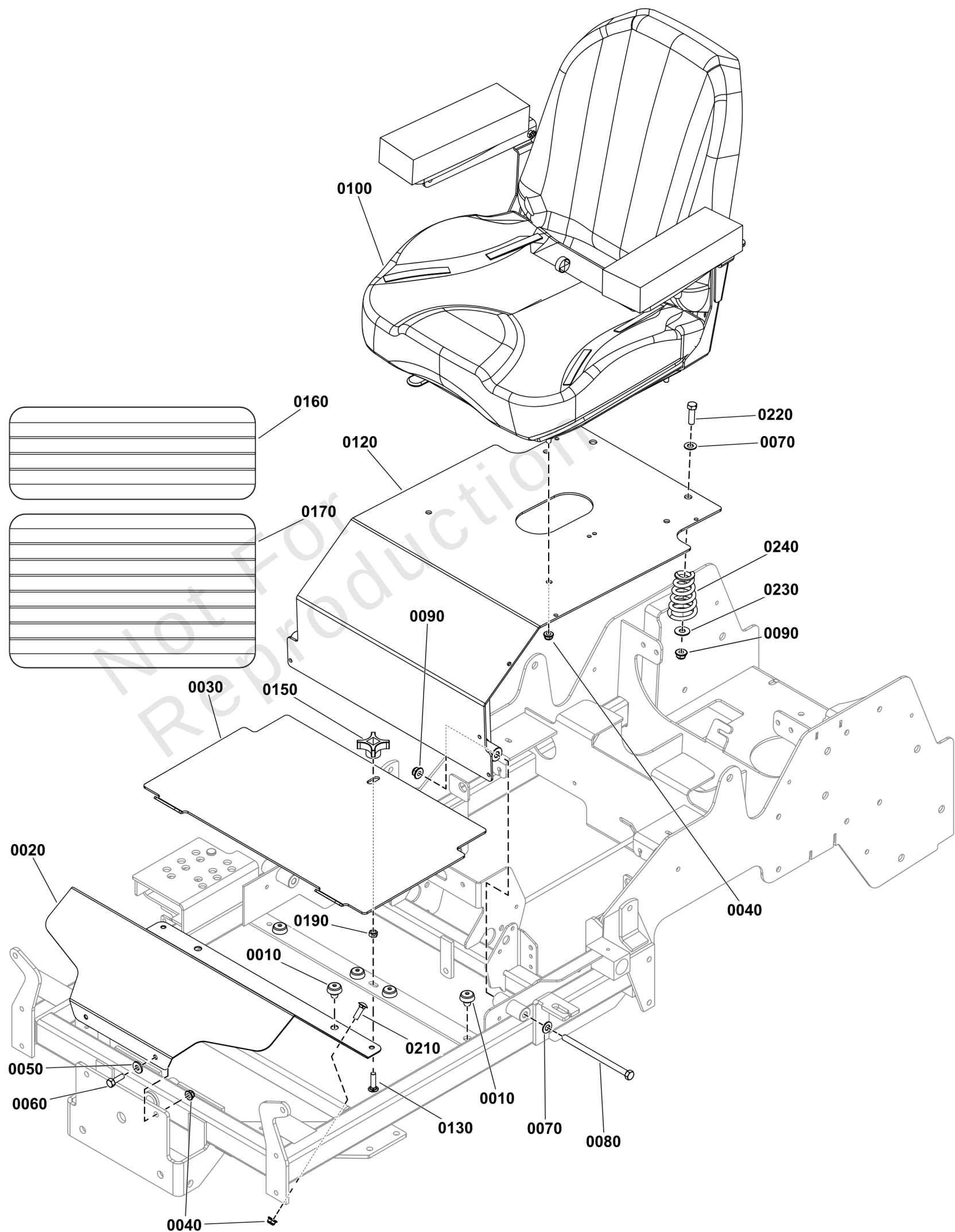
### ***Rear Suspension Group***

| REF NO | PART NO    | QTY | DESCRIPTION                          |
|--------|------------|-----|--------------------------------------|
| 0040   | 5025392    | 2   | NUT, 5/16-18 HEX NYLOCK FLANGE NUT   |
| 0060   | 5102701    | 2   | SPACER, .34 X 1.54 X .25 - UHMW      |
| 0070   | 5025303X12 | 2   | SCREW, 5/16-18X1.5, FLAT HD SOC, CZ  |
| 0080   | 5025013X24 | 2   | BOLT, 3/8-16 X 3" GD5 CZ             |
| 0090   | 80003522   | 2   | HHCS, 3/8-16 X 2.00, GR5, ZINC/CLEAR |
| 0100   | 5025394    | 4   | NUT, 3/8 - 16 HEX NYLOCK FLANGE      |
| 0110   | 5025165    | 8   | WASHER, 3/8" Fender                  |
| 0120   | 5020020    | 2   | GREASE FITTING, 1/4-28 45 DEGREE     |
| 0130   | 5025488X52 | 2   | BOLT, 1/2-13 X 6-1/2" GD8 YZ         |
| 0140   | 5025056    | 2   | NUT, 1/2-13 HEX NYLON LOCK           |
| 0150   | 5025158    | 2   | WASHER, 1/2 SAE                      |
| 0160   | 5046860    | 2   | SPACER, .39 X 1.00 X .50, PM, CZ     |
| 0170   | 5103624    | 2   | SHOCK ABSORBER, IS600                |
| 0180   | 5061339    | 2   | SPACER, .52 X 1.00 X 3.42            |
| 0190   | 5021541    | 4   | BUSHING, FLANGE                      |
| 0200   | 84007761   | 1   | CRADLE, Suspension                   |
| 0210   | 5100548    | 2   | WASHER, .390 X 1.50 X .109, YZ       |
| 0220   | 5100896    | 2   | SPACER, .390 X 1.00 X 1.00 - YZ      |
| 0230   | 5020095    | 2   | GREASE FITTING, 1/4-28 Straight      |
| 1000   | 5022853    | 1   | WRENCH, SPANNER, CZ                  |

Seat Mount & Floor Group S/N: 4000875837 to 4002340028

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911



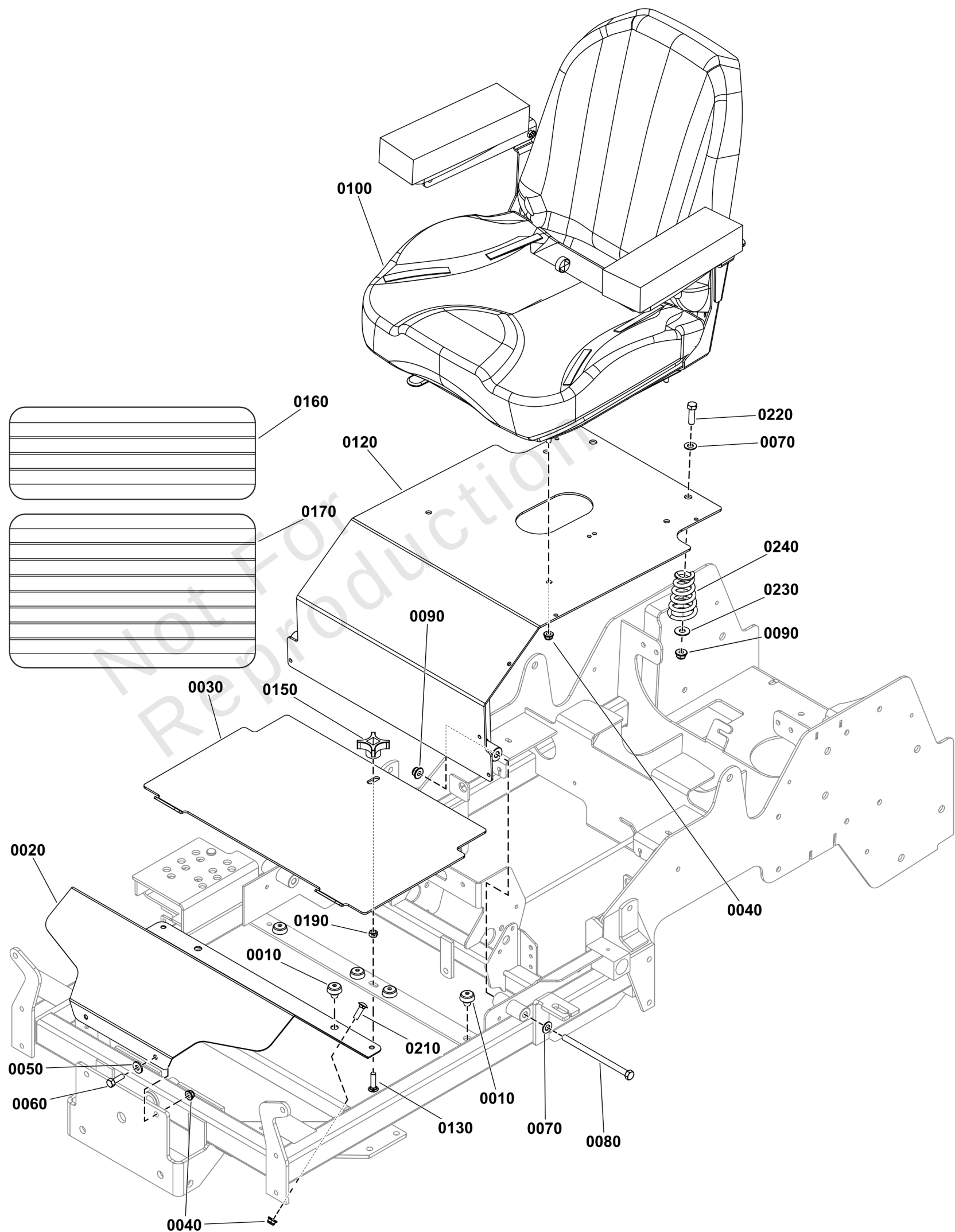
**Seat Mount & Floor Group S/N: 4000875837 to 4002340028**

| REF NO  | PART NO    | QTY | DESCRIPTION                                      |
|---------|------------|-----|--------------------------------------------------|
| 0010    | 197546     | 6   | MNT, VBRTN, RBBR                                 |
| 0020    | 84007982   | 1   | PLATE, Floor                                     |
| 0030    | 5410256B   | 1   | PLATE, FLOOR PAN, REMOVABLE. IS600 - RED         |
| 0040    | 5025392    | 8   | NUT, 5/16-18 HEX NYLOCK FLANGE NUT               |
| 0050    | 5025292    | 2   | WASHER, 5/16 GRADE 9, FLAT                       |
| 0060    | 5025011X8  | 2   | BOLT, 5/16-18 X 1" GRD5 YZ                       |
| 0070    | 5025156    | 4   | WASHER, 3/8 SAE                                  |
| 0080    | 5025013X48 | 2   | BOLT, 3/8-16 X 6" GD5 CZ                         |
| 0090    | 5025394    | 4   | NUT, 3/8 - 16 HEX NYLOCK FLANGE                  |
| 0100    | 5108190    | 1   | SEAT, 907, W/ARM REST & SWITCH, NO BEAD          |
| 0100-10 | 5104741X1  | 1   | 4" SL TRACK SET - 9" FLAT - W/HDWR<br>-(SV)      |
| 0100-20 | 5108190X3  | 1   | BACK ASSEMBLY<br>-(SV)                           |
| 0100-30 | 5108190X4  | 1   | CUSHION ASSEMBLY<br>-(SV)                        |
| 0100-40 | 5108190X2  | 1   | ARM BRACKET W/PAD & HARDWARE<br>-(SV)            |
| 0100-50 | 5108190X1  | 1   | ARM PAD ASSEMBLY<br>-(SV)                        |
| 0100-60 | 7023354    | 1   | SWITCH, SEAT<br>-(SV)                            |
| 0100-70 | 5100541    | 1   | SWITCH, NC, W/ TWIST-IN BASE<br>-(SV)            |
| 0120    | 5601055    | 1   | ASSM, SEAT PLATE W/DECALS, IS600Z-DOM (5415897B) |
| 0130    | 5025145X10 | 1   | BOLT, 5/16-18 X 1-1/4, CARRIAGE, GD5, CZ         |
| 0150    | 1670578    | 1   | KNOB-INT THR .312-18 4-ARM 2.12WD 1.06LG         |
| 0160    | 5101374    | 1   | SAFETY WALK, FLOOR REST, 16.00 X 6.00            |
| 0170    | 5101333    | 1   | SAFETY WALK, FLOOR PLATE, S50X, 10X17.13         |
| 0190    | 80003675   | 1   | NUT, 5/16-1/8, HEX, CNTR LK, ZINC PHOS/OIL       |
| 0210    | 5025145X8  | 2   | BOLT, 5/16-18 X 1, CARRIAGE, GD5, CZ             |
| 0220    | 5025013X10 | 2   | BOLT, 3/8-16 X 1-1/4" GD5 CZ                     |
| 0230    | 5025401    | 2   | WASHER, 3/8" USS                                 |
| 0240    | 5108276    | 2   | SPRING, SEAT, BLACK E-COAT                       |

**Seat Mount & Floor Group S/N: 4002340029 and Above**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911



## Seat Mount & Floor Group S/N: 4002340029 and Above

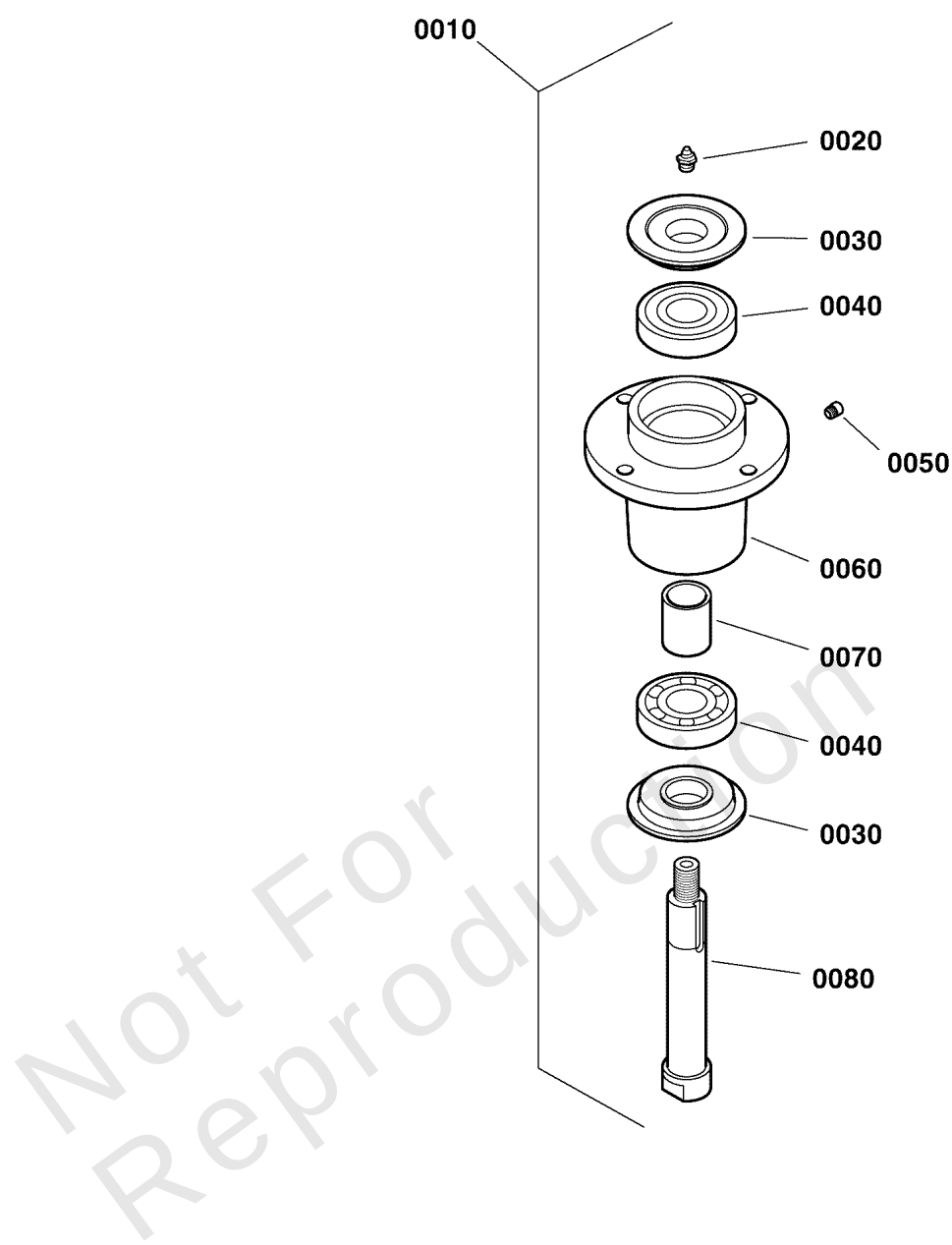
| REF NO  | PART NO      | QTY | DESCRIPTION                                      |
|---------|--------------|-----|--------------------------------------------------|
| 0010    | 197546GS     | 6   | MOUNT-VIBRATION                                  |
| 0020    | 84007982     | 1   | PLATE, Floor                                     |
| 0030    | 5410256BFS   | 1   | PLATE, FLOOR                                     |
| 0040    | 703115       | 8   | NUT                                              |
| 0050    | 5025292SM    | 2   | WASHER, 5/16" GD.9 FL                            |
| 0060    | 5025011X8FS  | 2   | BOLT                                             |
| 0070    | 5025156FS    | 4   | WASHER                                           |
| 0080    | 5025013X48SM | 2   | BOLT, 3/8-16 X 6" GD5                            |
| 0090    | 5025394SM    | 4   | NUT, 3/8-16 HEX NYLOCK                           |
| 0100    | 84010950     | 1   | SEAT ASSEMBLY w/Arm Rests                        |
| 0100-10 | 84011193     | 1   | COVER, Seat Back<br>-(SV)                        |
| 0100-20 | 84011194     | 1   | CUSHION, Seat<br>-(SV)                           |
| 0100-30 | 5104741X1YP  | 1   | 4" SL TRACK SET - 9" FLAT - W/HDWR<br>-(SV)      |
| 0100-40 | 7023354YP    | 1   | SWITCH, SEAT<br>-(SV)                            |
| 0120    | 5601055      | 1   | ASSM, SEAT PLATE W/DECALS, IS600Z-DOM (5415897B) |
| 0130    | 5025145X10YP | 1   | BOLT, 5/16-18 X 1-1/4                            |
| 0150    | 1670578SM    | 1   | KNOB-INT THR .312-18                             |
| 0160    | 5101374YP    | 1   | SAFETY WALK, FLOOR RE                            |
| 0170    | 5101333YP    | 1   | SAFETY WALK, FLOOR PL                            |
| 0190    | 703164       | 1   | NUT                                              |
| 0210    | 5025145X8SM  | 2   | BOLT, 5/16-18 X 1", C                            |
| 0220    | 5025013X10SM | 2   | BOLT, 3/8-16 X 1-1/4"                            |
| 0230    | 5025401YP    | 2   | WASHER, 3/8 USS                                  |
| 0240    | 84004561     | 2   | SPRING                                           |

**Spindle SERVICE PARTS - 5061095**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911

**5061095**



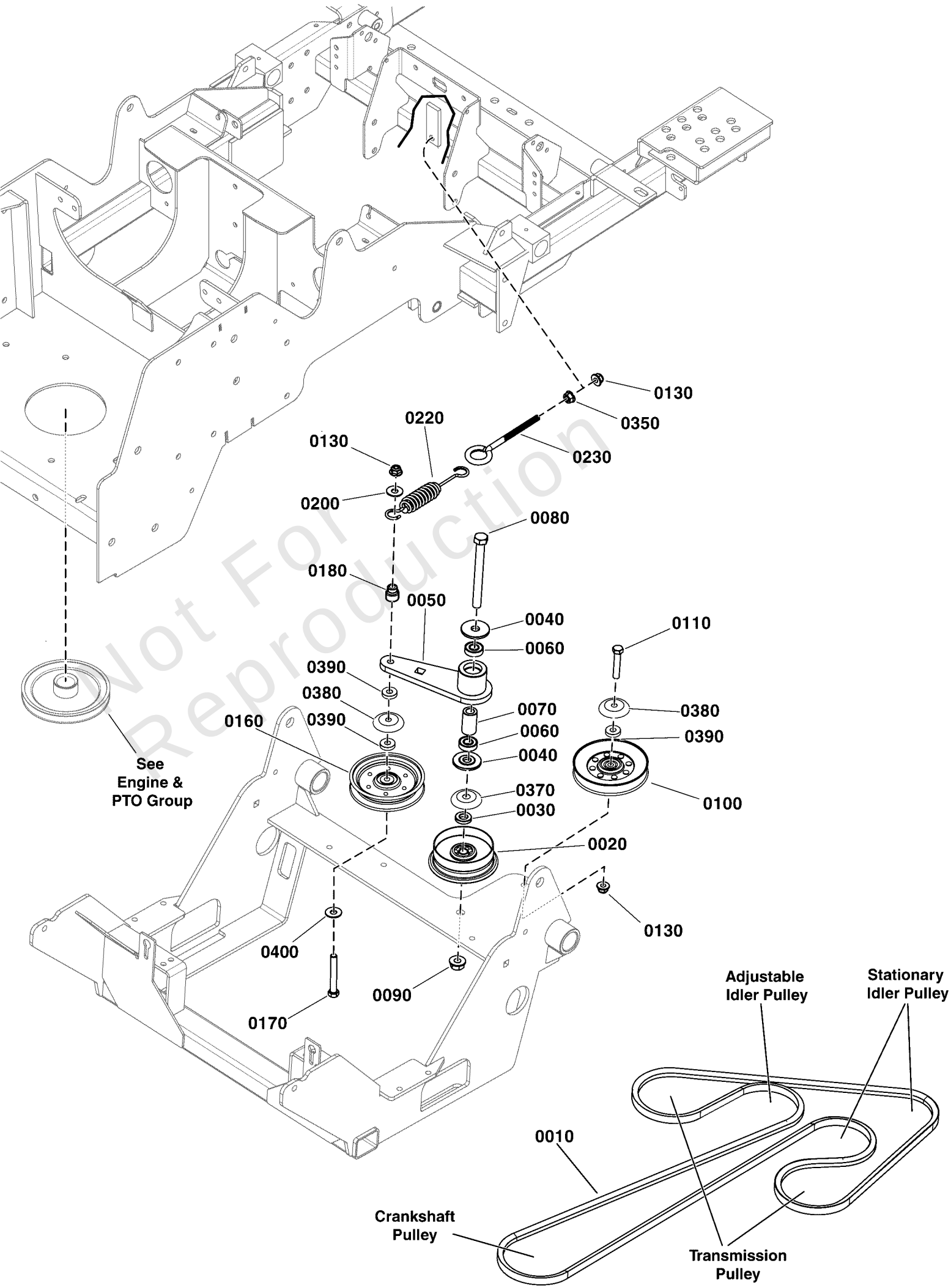
## ***Spindle SERVICE PARTS - 5061095***

| REF NO | PART NO | QTY | DESCRIPTION                                                                                       |
|--------|---------|-----|---------------------------------------------------------------------------------------------------|
| 0010   | 5061095 | 1   | SPINDLE, ASSM, ALUMINUM - 5.25<br>-(Nut and Washer Sold Separately) (Includes items #0020 - 0080) |
| 0020   | 5023329 | 1   | FITTING, 1/8 NPT STR, SHORT                                                                       |
| 0030   | 5049793 | 2   | TRASH SHIELD                                                                                      |
| 0040   | 5023330 | 2   | BEARING, .98 X 2.44 X .67                                                                         |
| 0050   | 5023296 | 1   | FITTING, RELIEF, 1-5 PSI                                                                          |
| 0060   | 5061097 | 1   | HOUSING, SPINDLE                                                                                  |
| 0070   | 5061099 | 1   | SPACER, 1.00 X 1.25 X 1.75                                                                        |
| 0080   | 5061098 | 1   | SPINDLE SHAFT                                                                                     |

**Transaxle Drive Group**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911



## Transaxle Drive Group

| REF NO | PART NO    | QTY | DESCRIPTION                              |
|--------|------------|-----|------------------------------------------|
| 0010   | 5103885    | 1   | BELT, A-SEC, 117.24" EL, WRAPPED, ARAMID |
| 0020   | 5103618    | 1   | PULLEY, IDLER, SINGLE FLG 4"OD X 1/2"ID  |
| 0030   | 5100520    | 1   | SPACER, .52 X 1.00 X .22, PM, CZ         |
| 0040   | 5103262    | 2   | SPACER, IDLER ARM, 1/2, PM               |
| 0050   | 5409891A   | 1   | WELD, ARM, PUMP DRIVE IDLER - BLK        |
| 0060   | 7078243    | 2   | BEARING, BALL, AXLE                      |
| 0070   | 5103812    | 1   | SPACER, .52 X .84 X 1.53, PM             |
| 0080   | 5025017X40 | 1   | BOLT, 1/2-13 X 5" GD5 YZ                 |
| 0090   | 5025396    | 1   | NUT, Hex Flange, Nylock, 1/2-13          |
| 0100   | 5103717    | 1   | PULLEY-IDLER-V, 4.85OB, .38ID, .94W,STL  |
| 0110   | 5025013X20 | 1   | BOLT, 3/8-16 X 2-1/2" GD5 CZ             |
| 0130   | 5025394    | 3   | NUT, 3/8 - 16 HEX NYLOCK FLANGE          |
| 0160   | 5103788    | 1   | PULLEY, IDLER-V, 4.0 X .38, STL          |
| 0170   | 5025013X24 | 1   | BOLT, 3/8-16 X 3" GD5 CZ                 |
| 0180   | 5020923    | 1   | SPACER, Shoulder                         |
| 0200   | 5025401    | 1   | WASHER, 3/8" USS                         |
| 0220   | 5100632    | 1   | SPRING-EXT, 1.25OD X 9.3LG X .142WR, BLK |
| 0230   | 5023497    | 1   | EYE BOLT, 3/8-16 X 5, 2.88THRD, 1EYE, CZ |
| 0350   | 5025128    | 1   | NUT, 3/8-16 Hex Large Serrated Flange    |
| 0370   | 5101103    | 1   | SHIELD, PULLEY BEARING, CZ               |
| 0380   | 5103787    | 2   | SHIELD, BEARING PULLEY, 3/8ID, CZ        |
| 0390   | 5044960    | 3   | SPACER, .39 X 1.00 X .25, PM, CZ         |
| 0400   | 5025156    | 1   | WASHER, 3/8 SAE                          |

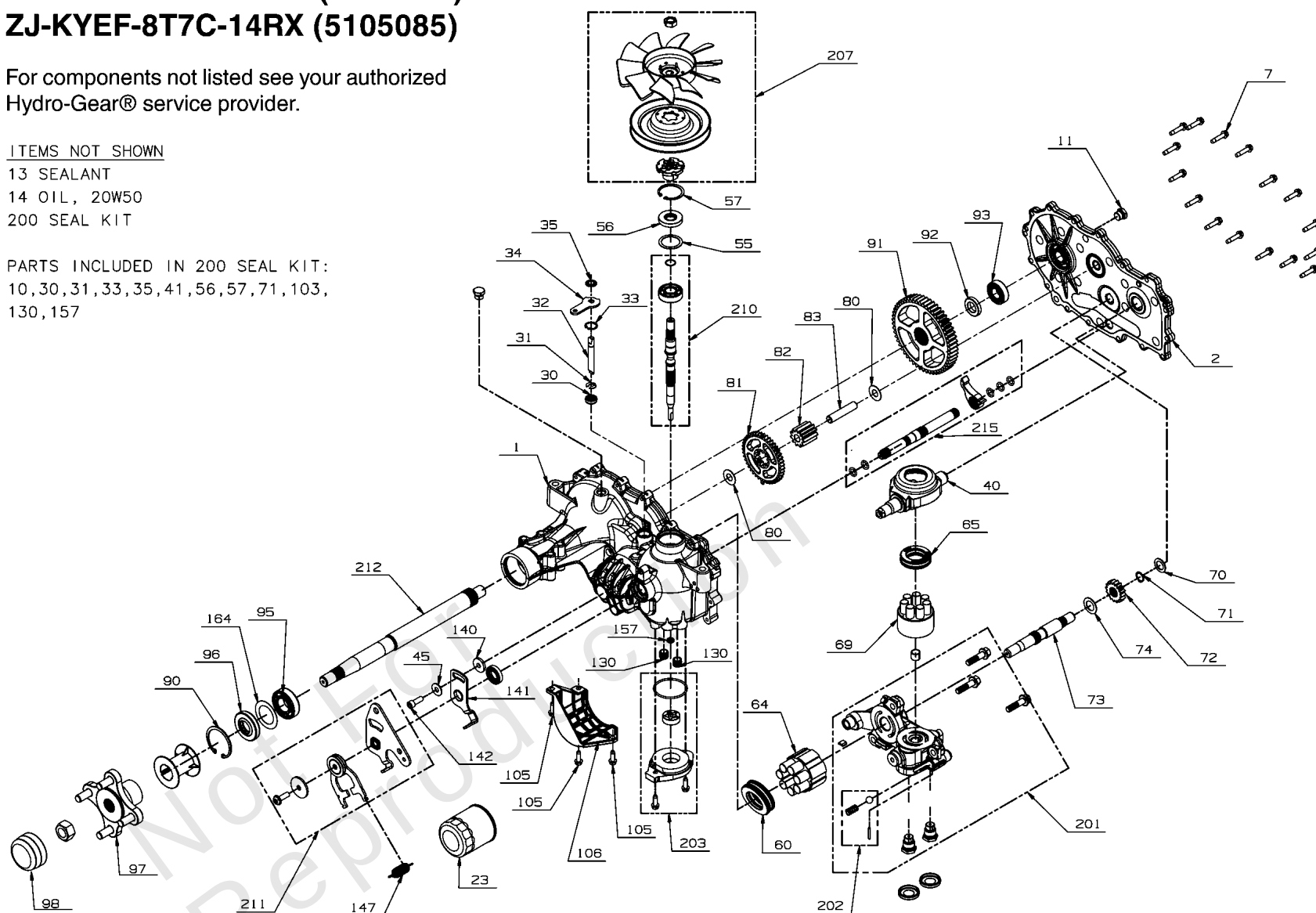
## Service Parts Schematic for Hydro-Gear® Transaxles: ZJ-GYEF-8T7B-1GRX (5105086) ZJ-KYEF-8T7C-14RX (5105085)

For components not listed see your authorized Hydro-Gear® service provider.

### ITEMS NOT SHOWN

13 SEALANT  
14 OIL, 20W50  
200 SEAL KIT

PARTS INCLUDED IN 200 SEAL KIT:  
10, 30, 31, 33, 35, 41, 56, 57, 71, 103,  
130, 157



## Transaxle SERVICE Parts - Hydro-Gear ZT3200

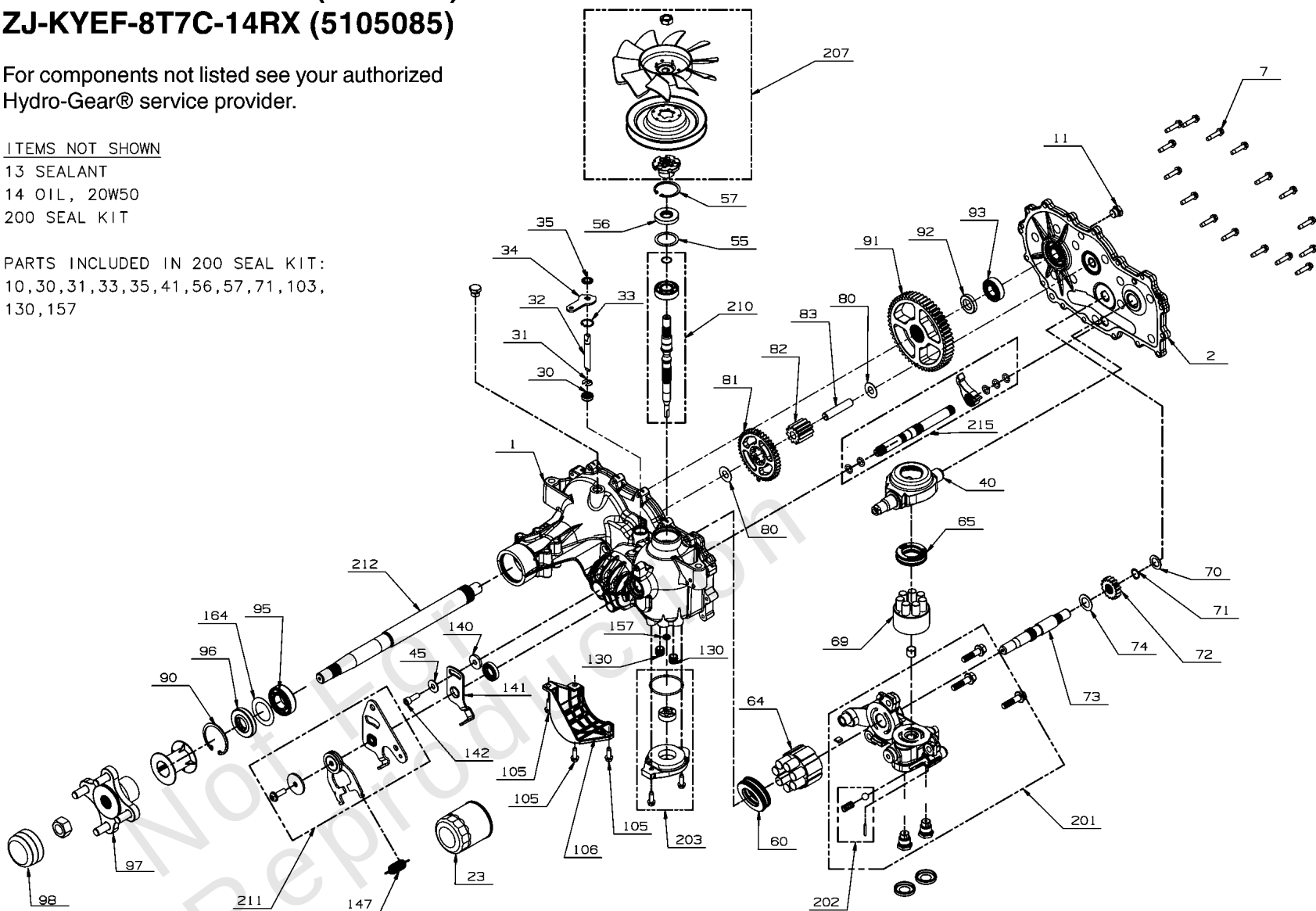
| REF NO | PART NO   | QTY | DESCRIPTION                            |
|--------|-----------|-----|----------------------------------------|
| 1      | -----     | 1   | KIT, MAIN HOUSING, RH, CHRG, CNTRL     |
| 2      | -----     | 1   | KIT, SIDE COVER RH                     |
| 7      | -----     | 16  | SCREW, HEX WASHER                      |
| 11     | -----     | 1   | PLUG EXTERNAL HEX VENT 9/16-18         |
| 23     | 5101026X1 | 1   | FILTER, OIL, ZT2800                    |
| 30     | -----     | 1   | SEAL, LIP, .375 X .75 X .25            |
| 31     | -----     | 1   | BYPASS RETAINING RING 1                |
| 32     | -----     | 1   | ROD, BYPASS .375 X 2.88                |
| 33     | -----     | 1   | BYPASS RETAINING RING 2                |
| 34     | -----     | 1   | ARM, BYPASS                            |
| 35     | -----     | 1   | RING, RETAINING .375 EXTERNAL          |
| 40     | -----     | 1   | SWASHPLATE, TRUNNION                   |
| 41     | -----     | 1   | SEAL, LIP 10 X 32 X 7                  |
| 45     | -----     | 1   | WASHER, .34X.88X.06                    |
| 55     | -----     | 1   | WASHER, FLAT 1.23 X 1.57 X .04         |
| 56     | 5100161X3 | 1   | OUTPUT SHAFT SEAL, 17X40X7, HR #51161  |
| 57     | 5101026X4 | 1   | RING, RET 2.06 INT,                    |
| 60     | -----     | 1   | BEARING, THRUST 35 x 62 x 18           |
| 64     | -----     | 1   | KIT, 16cc CYLINDER BLOCK ASSEMBLY      |
| 65     | -----     | 1   | BEARING, THRUST 30 x 52 x 13           |
| 69     | -----     | 1   | KIT, BLOCK 7 PISTON                    |
| 70     | -----     | 1   | WASHER, .63 X 1.00 X .05 FLAT          |
| 71     | -----     | 1   | RETAINING RING, MOTOR SHAFT            |
| 72     | -----     | 1   | GEAR, 16T (STEEL)                      |
| 73     | -----     | 1   | SHAFT, MOTOR                           |
| 74     | -----     | 1   | WASHER, .71 X 1.16 X .04 FLAT          |
| 80     | -----     | 2   | WASHER, .51 X 1.00 X .03 FLAT          |
| 81     | -----     | 1   | GEAR, 43T                              |
| 82     | -----     | 1   | GEAR, 11T (STEEL)                      |
| 83     | -----     | 1   | PIN, JACKSHAFT                         |
| 90     | -----     | 1   | RING, RETAINING 2.25 INTERNAL          |
| 91     | -----     | 1   | GEAR, 54T                              |
| 92     | -----     | 1   | SPACER, .750 X 1.320 X .257            |
| 93     | -----     | 1   | KIT, BEARING                           |
| 95     | 5101026X5 | 1   | BEARING BALL, 1.0 X 52 X 15 OPEN 6205M |
| 96     | 5103589X1 | 1   | KIT, SEAL, AXLE - HG# 53699            |
| 97     | 5103589X8 | 1   | ASSM, HUB                              |
| 98     | 5103589X7 | 1   | AXLE CAP,                              |
| 105    | -----     | 3   | SCREW, HEX WASHER 1/4-20 X .75         |
| 106    | -----     | 1   | GUARD, FILTER, RH                      |
| 130    | -----     | 2   | TUBE, CHARGE TRIPLE O-RING             |
| 140    | -----     | 1   | SPACER, .320X1.005X.179                |
| 141    | -----     | 1   | ARM, NEUTRAL RIGHT                     |
| 142    | -----     | 1   | SHCS, 5/16-24 X .875 (PATCH)           |
| 147    | -----     | 1   | SPRING, EXTENSION                      |
| 157    | -----     | 1   | KIT, GEROTOR SEAL                      |
| 164    | -----     | 1   | WASHER, 1.355 x 2.035 x .021 FLAT      |
| 200    | 5101026X8 | 1   | KIT SEAL                               |
| 201    | -----     | 1   | KIT, CENTER SECTION, RH CHARGE         |
| 202    | -----     | 1   | KIT, CHARGE RELIEF                     |
| 203    | -----     | 1   | KIT, CHARGE                            |

## Service Parts Schematic for Hydro-Gear® Transaxles: ZJ-GYEF-8T7B-1GRX (5105086) ZJ-KYEF-8T7C-14RX (5105085)

For components not listed see your authorized Hydro-Gear® service provider.

ITEMS NOT SHOWN  
13 SEALANT  
14 OIL, 20W50  
200 SEAL KIT

PARTS INCLUDED IN 200 SEAL KIT:  
10, 30, 31, 33, 35, 41, 56, 57, 71, 103,  
130, 157



## ***Transaxle SERVICE Parts - Hydro-Gear ZT3200***

| REF NO | PART NO   | QTY | DESCRIPTION                        |
|--------|-----------|-----|------------------------------------|
| 207    | 5105085X2 | 1   | KIT, FAN/PULLEY                    |
| 210    | -----     | 1   | KIT, INPUT SHAFT                   |
| 211    | -----     | 1   | KIT, RTN BIDIRECTIONAL             |
| 212    | -----     | 1   | SHAFT, AXLE                        |
| 215    | -----     | 1   | KIT, OUTBOARD, RH ROT A / LH ROT B |

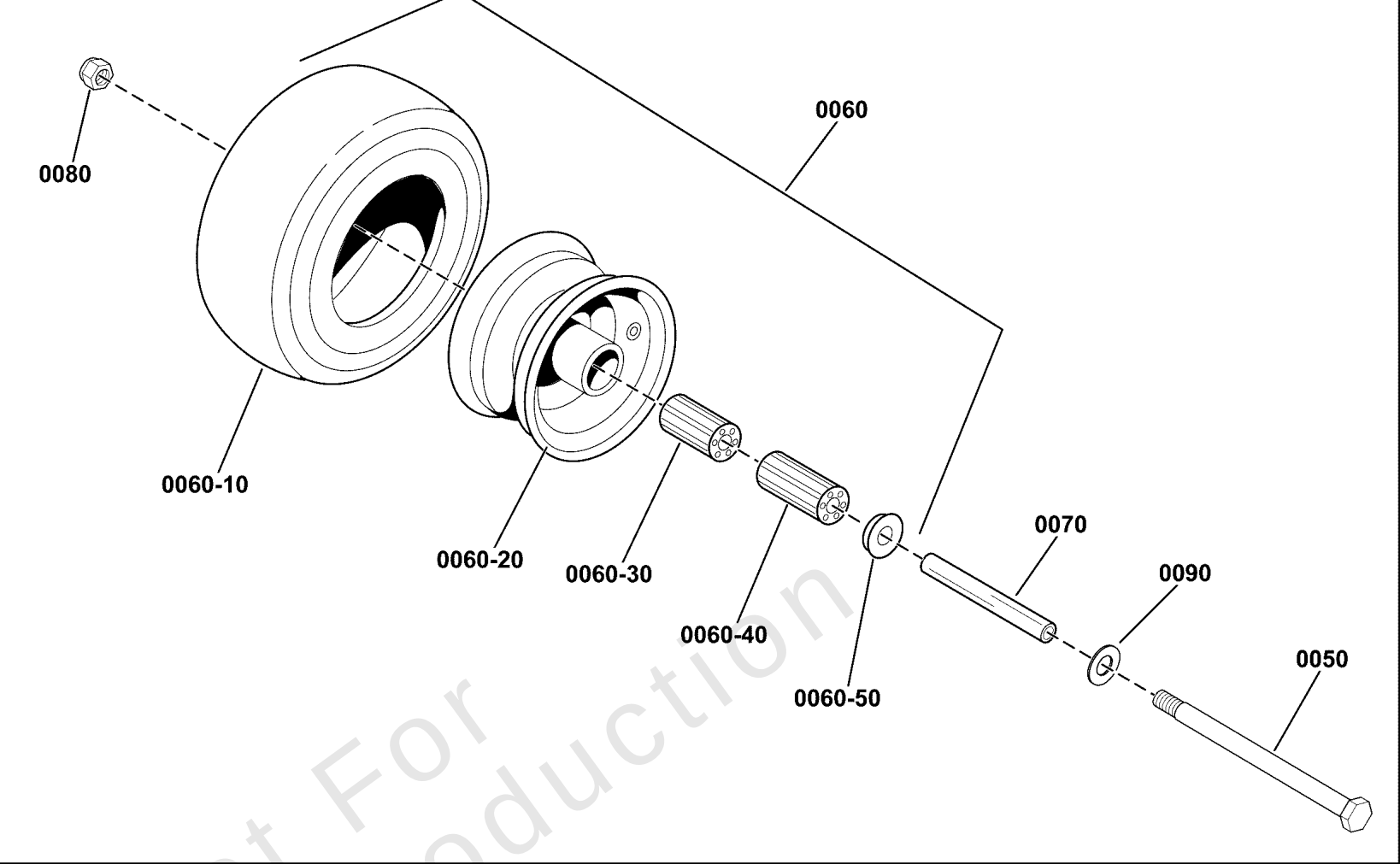
Not For Reproduction

Wheel and Tire Group

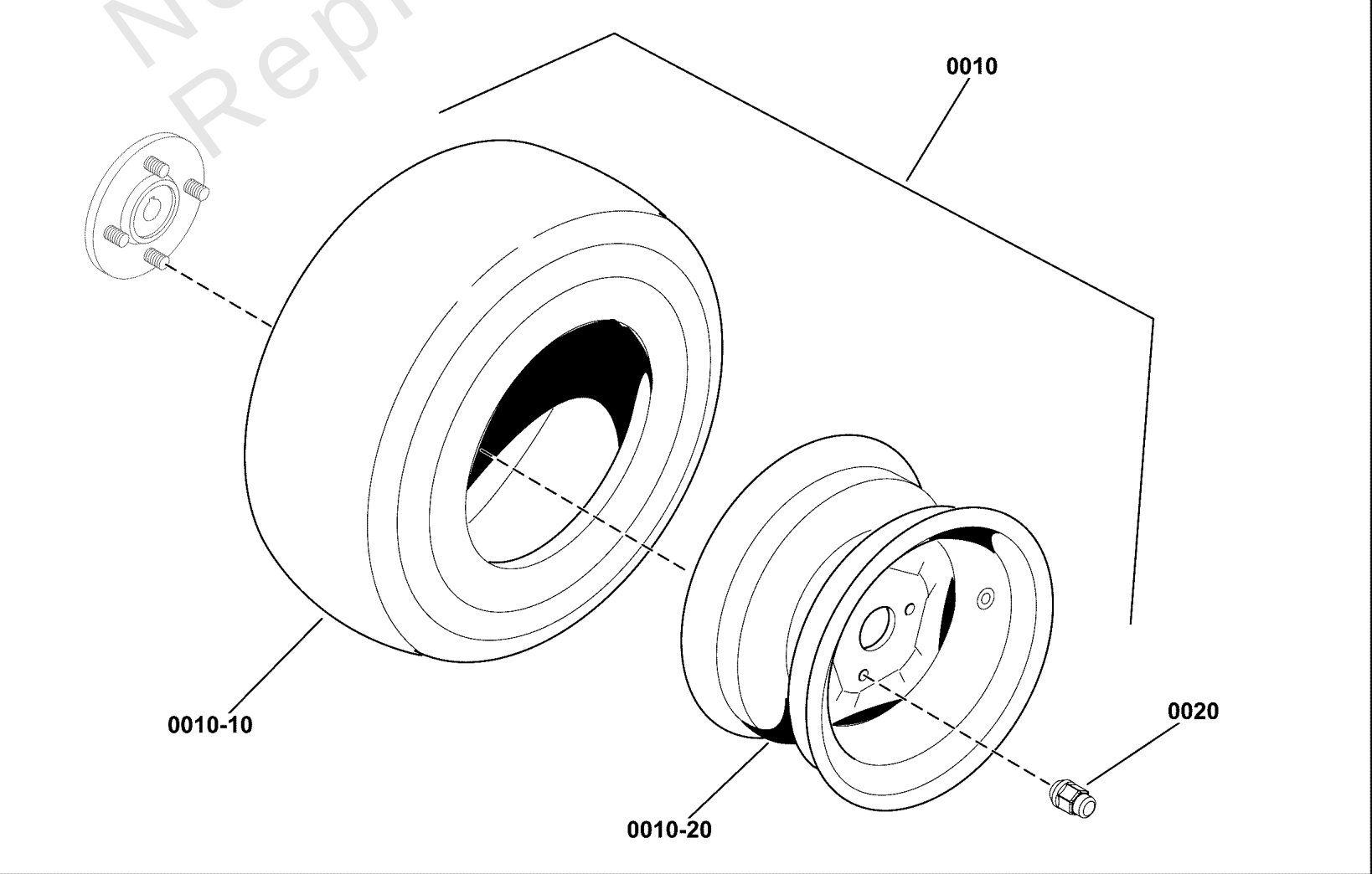
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5901911

Front Wheels & Tires



Rear Wheels & Tires



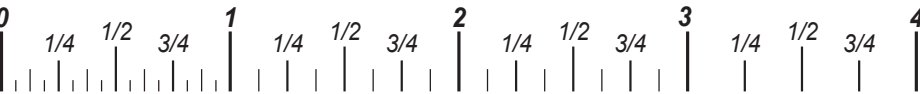
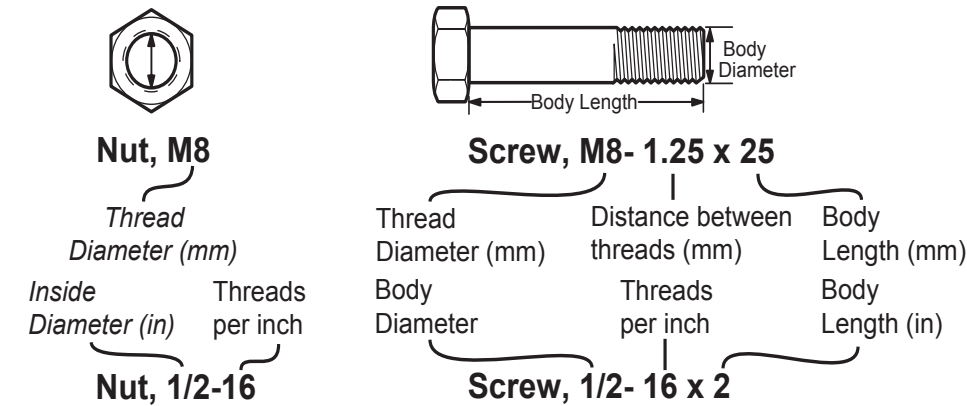
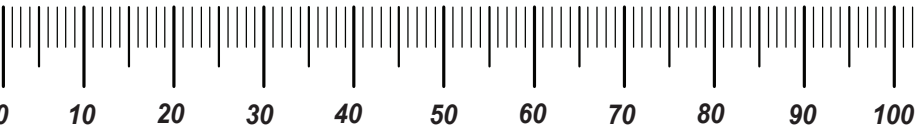
## Wheel and Tire Group

| REF NO  | PART NO    | QTY | DESCRIPTION                                                                               |
|---------|------------|-----|-------------------------------------------------------------------------------------------|
| 0010    | 84007890   | 2   | TIRE ASSEMBLY (22 X 11 - 10)                                                              |
| 0010-10 | 5023369X2  | 2   | TIRE, 22 X 11.00 - 10, 4 PLY<br>-(One per tire)                                           |
| 0010-20 | -----      | 2   | WHEEL RIM<br>-(One per tire)                                                              |
| 0020    | -----      | 10  | LUG NUT, Black<br>-(Originally Black Lug nut - Replacement 5020601SM is silver in color). |
| 0020    | 5020601SM  | 10  | NUT, 1/2-20, FOR WHEEL BOLT SILVER<br>-(Replacement 5020601SM is silver in color).        |
| 0050    | 5025017X72 | 2   | BOLT, 1/2-13 X 9" GD5 YZ                                                                  |
| 0060    | 5109055    | 2   | TIRE ASM, 13 X 6.5-6, RB, BLK, KENDA                                                      |
| 0060-10 | 5022577    | 2   | TIRE, RUBBER ONLY<br>-(One per tire)                                                      |
| 0060-20 | -----      | 2   | WHEEL RIM                                                                                 |
| 0060-30 | 84008029   | 2   | BEARING<br>-(One per tire)                                                                |
| 0060-40 | 5021182    | 2   | BEARING, ROLLER 3/4" ID X 3.25" (ONE PER TIRE)(SV)<br>-(One per tire)                     |
| 0060-50 | 5021043    | 4   | RETAINER, BEARING (TWO PER TIRE)(SV)                                                      |
| 0070    | 5106587    | 2   | CASTER AXLE SHAFT, .51"ID X .75"OD X7.16                                                  |
| 0080    | 5025396    | 2   | NUT, Hex Flange, Nylock, 1/2-13                                                           |
| 0090    | 5025158    | 2   | WASHER, 1/2 SAE                                                                           |

# Hardware Identification & Torque Specifications

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

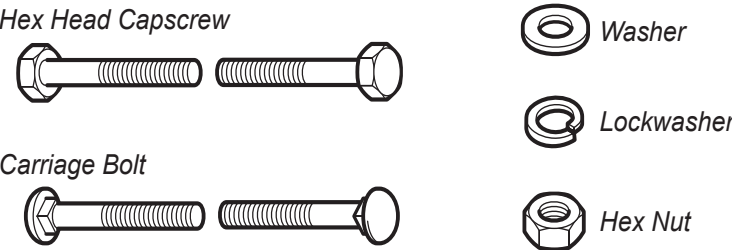
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

| Torque Specification Chart                      |                                                                                                    |       |                                                                                                    |       |                                                                                                    |         |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------|---------|
| FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%) |                                                                                                    |       |                                                                                                    |       |                                                                                                    |         |
| Hardware Grade                                  | <br>SAE Grade 2 |       | <br>SAE Grade 5 |       | <br>SAE Grade 8 |         |
| Size Of Hardware                                | in/lbs<br>ft/lbs                                                                                   | Nm.   | in/lbs<br>ft/lbs                                                                                   | Nm.   | in/lbs<br>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

|                                                                                                                           |                                                                                                                           |                                                                                                                           |                                                                                                                                                         |                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <br>1/4" Bolt or Nut<br>Wrench—7/16" | <br>5/16" Bolt or Nut<br>Wrench—1/2" | <br>3/8" Bolt or Nut<br>Wrench—9/16" | <br>7/16" Bolt or Nut<br>Wrench (Bolt)—5/8"<br>Wrench (Nut)—11/16" | <br>1/2" Bolt or Nut<br>Wrench—3/4" |
| M6 Bolt or Nut<br>Wrench—10mm                                                                                             | M8 Bolt or Nut<br>Wrench—13mm                                                                                             | M10 Bolt or Nut<br>Wrench—17mm                                                                                            | M12 Bolt or Nut<br>Wrench—19mm                                                                                                                          | M14 Bolt or Nut<br>Wrench—22mm                                                                                           |

