



# Parts Manual

Mfg. No: 5900602  
IS5100Z Series w/ Caterpillar Diesel &  
ROPS (IS5100Z/C33D)

|                                                         |  |
|---------------------------------------------------------|--|
| 5900622 - 61" Rear Discharge Mower Deck (5100/61R)..... |  |
| 5901167 - 72" Side Discharge Mower Deck (5100/72).....  |  |
| 5901168 - 72" Rear Discharge Mower Deck (5100/72R)..... |  |
| 5600477 - Suspension Seat Kit (Michigan).....           |  |

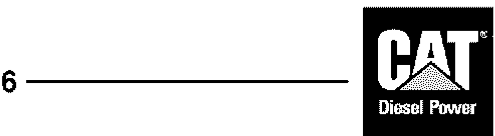
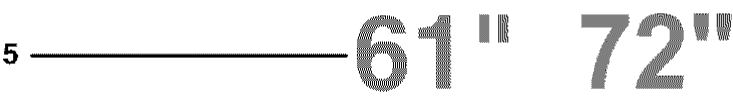
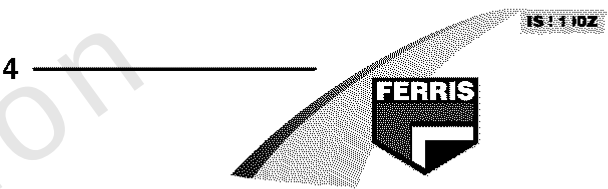
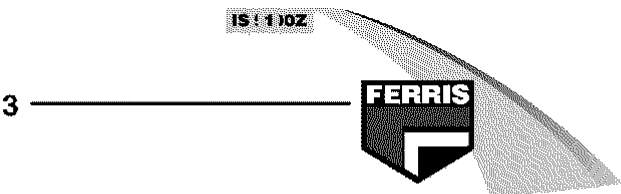
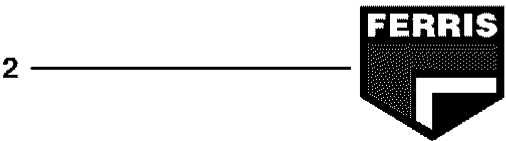
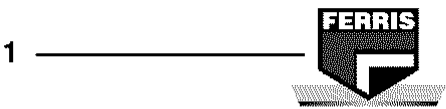
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Decals - Brand

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



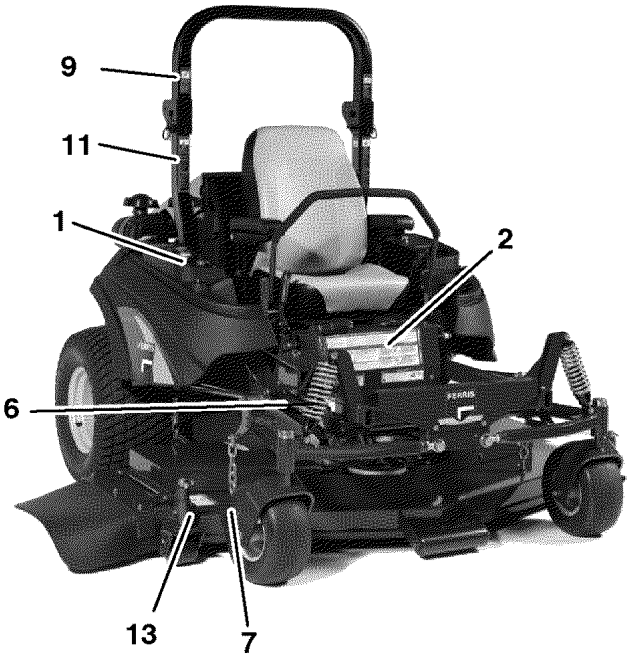
## ***Decals - Brand***

| REF NO | PART NO | QTY | DESCRIPTION                              |
|--------|---------|-----|------------------------------------------|
| 1      | 5100340 | 1   | USE 5104477-DECAL,FERRIS,FRONT,6.75X4.25 |
| 2      | 5022297 | 1   | DECAL, FERRIS LOGO, 9-3/8                |
| 3      | 5100496 | 1   | DECAL, BADGE, IS5100, RH                 |
| 4      | 5100497 | 1   | DECAL, BADGE, IS5100, LH                 |
| 5      | 5022813 | 2   | DECAL, 61"<br>-(61" DECK)                |
| 5      | 5022814 | 2   | DECAL, 72"<br>-(72" DECK)                |
| 6      | 5100822 | 2   | DECAL, CAT DIESEL POWER                  |

Decals - Safety & Operation

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



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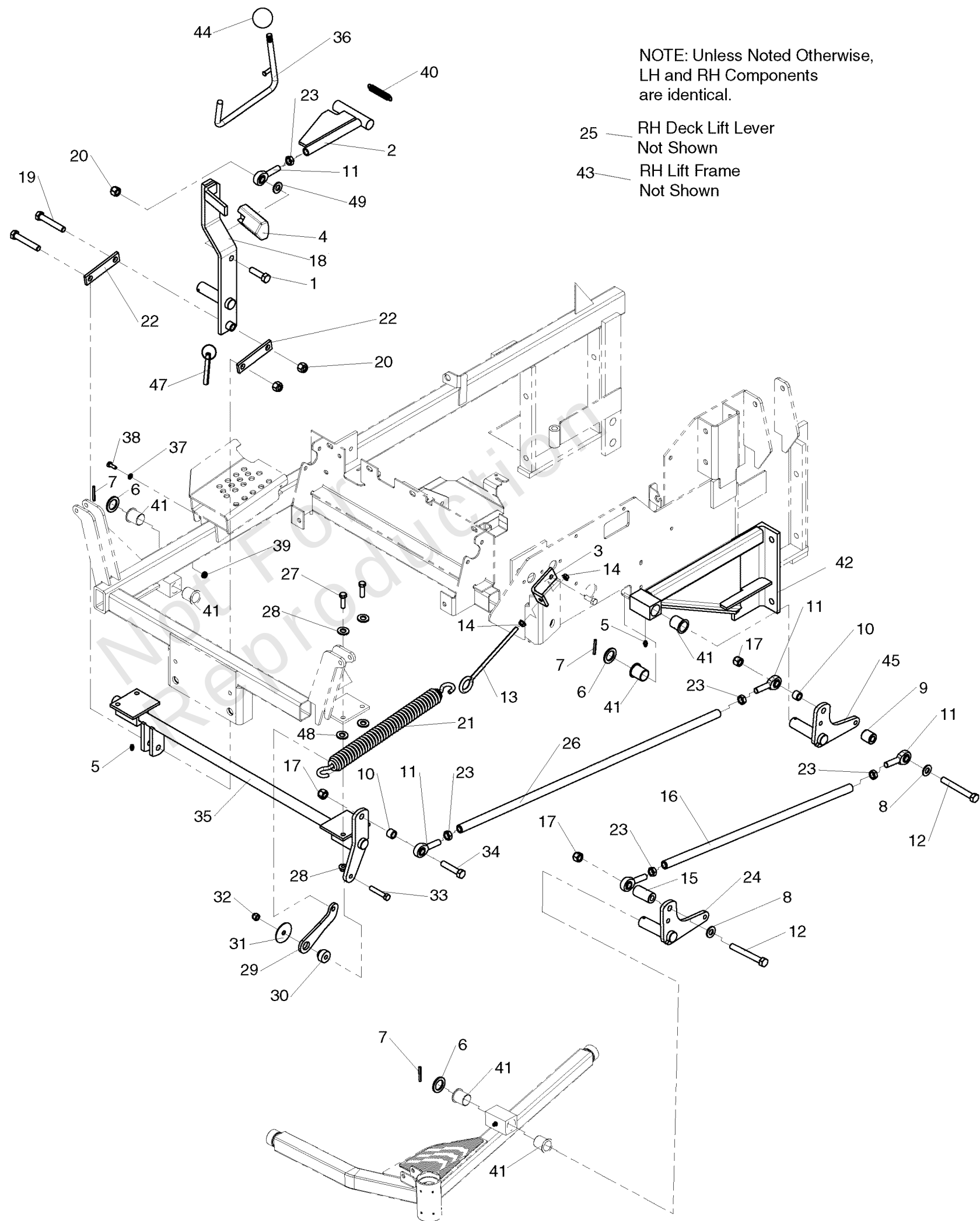
## ***Decals - Safety & Operation***

| REF NO | PART NO | QTY | DESCRIPTION                                               |
|--------|---------|-----|-----------------------------------------------------------|
| 1      | 5100315 | 1   | DECAL, CONTROL PANEL, IS5000Z                             |
| 1      | 5102942 | 1   | DECAL, CONTROL PANEL, IS5100Z<br>-(Hydraulic Lift Models) |
| 2      | 5100097 | 1   | DECAL, MAIN SAFETY                                        |
| 3      | 5047696 | 1   | DECAL, PRIMING INSTRUCTIONS                               |
| 4      | 5100708 | 1   | DECAL, DANGER, FIRE                                       |
| 5      | 5100709 | 1   | DECAL, DANGER, FIRE (SP)                                  |
| 6      | 5100134 | 2   | DECAL, WARNING, PINCH POINT                               |
| 7      | 5100093 | 1   | DECAL, WARNING, HAND IN PULLEY                            |
| 8      | 5100405 | 1   | DECAL, WARNING                                            |
| 9      | -----   | 1   | NLA - DECAL, WARNING, OVERHANG, ROPS (SP)                 |
| 10     | -----   | 1   | ORDER PART NUMBERS 5104082 & 5104083                      |
| 11     | -----   | 1   | NLA - DECAL, WARNING & CAUTION, ROPS (SP)                 |
| 12     | 5100316 | 1   | DECAL, HEIGHT OF CUT, IS5000Z                             |
| 13     | 5021036 | 1   | DECAL, GREASE DAILY                                       |
| 14     | 5045923 | 1   | DECAL, OIL RESERVOIR                                      |
| 15     | 5103252 | 1   | DECAL, BELT & BLADE, IS5000Z                              |

**Deck Lift Group (S/N: 2000729893 & Below)**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



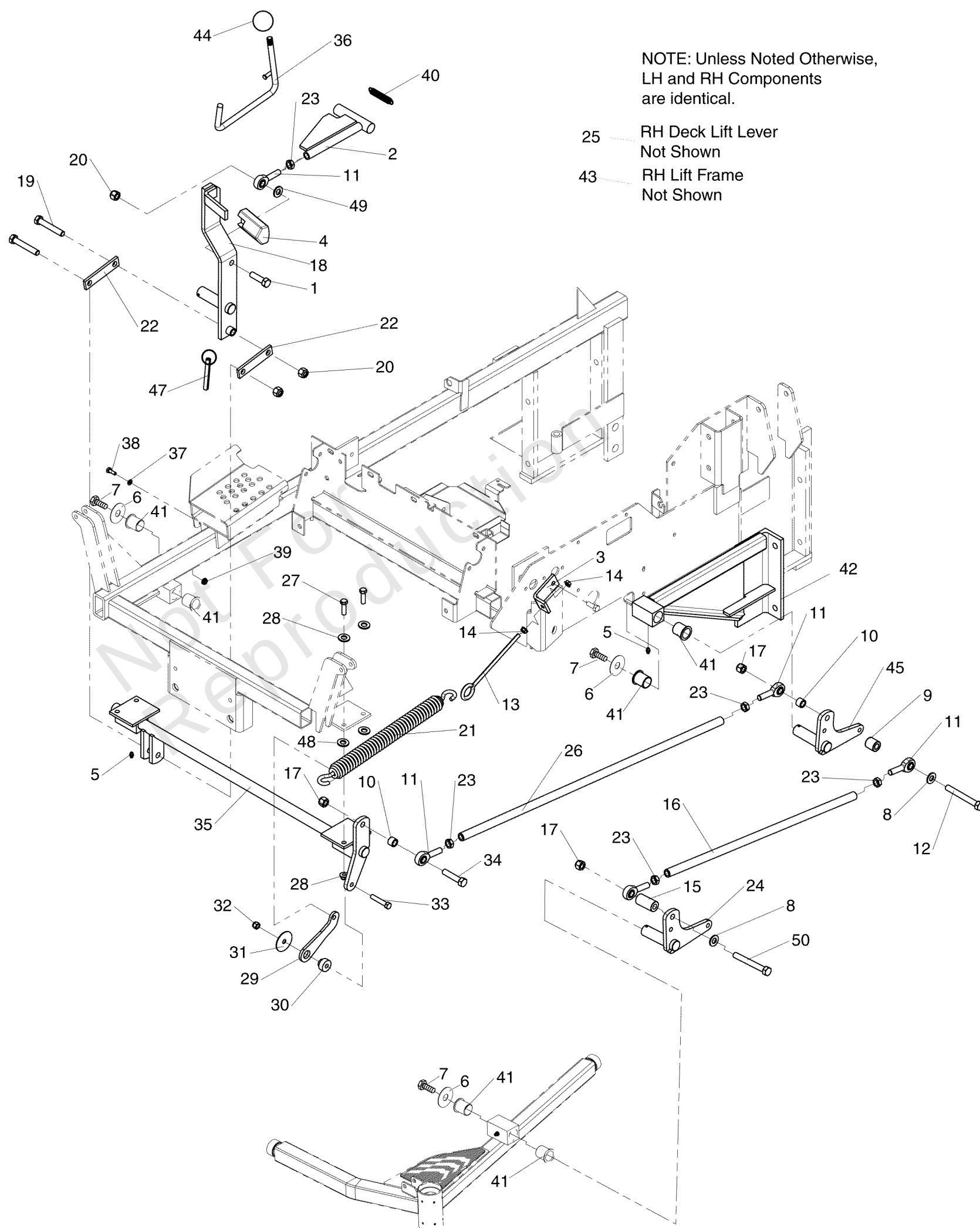
**Deck Lift Group (S/N: 2000729893 & Below)**

| REF NO | PART NO    | QTY | DESCRIPTION                                     |
|--------|------------|-----|-------------------------------------------------|
| 1      | 5025018X14 | 1   | BOLT, 1/2-20 X 1-3/4" GD8 CZ                    |
| 2      | 5061119B   | 1   | WELD, DECK ADJUST LINK                          |
| 3      | 5061355B   | 2   | ANCHOR, EYEBOLT                                 |
| 4      | 5104262    | 1   | PEDAL, Rubber                                   |
| 5      | 5020095    | 4   | GREASE FITTING, 1/4-28 STRAIGHT                 |
| 6      | 5020929    | 5   | SHIM, 1.0 X 1.5 X 0.125                         |
| 7      | 5025516    | 5   | PIN, ROLL, 3/16" X 1-1/2" PLN.                  |
| 8      | 5025440    | 4   | WASHER, 1/2" GD9 YZ                             |
| 9      | 5049777    | 2   | SPACER, .52 X 1.00 X 1.00                       |
| 10     | 5047027    | 4   | SPACER, .51 X .75 X .56                         |
| 11     | 5022434    | 9   | BALL JOINT, 1/2-20, MALE                        |
| 12     | 5025017X32 | 4   | BOLT, 1/2-13 X 4" GD5 CZ                        |
| 13     | 5021811    | 2   | EYE BOLT, 3/8-16 X 8", 1" EYE                   |
| 14     | 5025034    | 4   | NUT, 3/8-16 HEX                                 |
| 15     | 5061781    | 2   | SPACER, .52 X 1.00 X 1.15                       |
| 16     | 5061350    | 2   | ROD, DECK LIFT OUTER                            |
| 17     | 5025056    | 6   | NUT, 1/2-13 HEX NYLON LOCK                      |
| 18     | 5400327B   | 1   | WELD, DECK LIFT PEDAL - RED                     |
| 19     | 5025018X24 | 2   | BOLT, 1/2-20 X 3" GD5 YZ                        |
| 20     | 5025098    | 3   | NUT, Hex, Nylon Lock, 1/2-20                    |
| 21     | 5023392    | 2   | SPRING, DECK LIFT ASSIST                        |
| 22     | 5044994B   | 2   | LINK, DECK LIFT - RED                           |
| 23     | 5025089    | 9   | NUT, 1/2-20 HEX JAM                             |
| 24     | 5061358B   | 1   | WELD, DECK LIFT LEVER, LH                       |
| 25     | 5061357B   | 1   | WELD, DECK LIFT LEVER, RH<br>-(not shown)       |
| 26     | 5061349    | 2   | ROD, DECK LIFT INNER                            |
| 27     | 5025013X10 | 4   | BOLT, 3/8-16 X 1-1/4" GD5 CZ                    |
| 28     | 5025394    | 6   | NUT, 3/8-16 HEX NYLOCK FLANGE                   |
| 29     | 5061224B   | 2   | LINK, SPRING                                    |
| 30     | 5061227    | 2   | BUSHING, DECK PIVOT                             |
| 31     | 5025326    | 2   | WASHER, .39 X 2.00 X .14                        |
| 32     | 5025156    | 6   | WASHER, 3/8 SAE                                 |
| 33     | 5025013X16 | 2   | BOLT, 3/8-16 X 2, GD5, CZ                       |
| 34     | 5025017X18 | 2   | BOLT, 1/2-13 X 2-1/4" GD5 CZ                    |
| 35     | 5400924B   | 1   | WELD, LIFT SHAFT, IS5000Z - RED                 |
| 36     | 5061116B   | 1   | WELD, ROD DECK LIFT                             |
| 37     | 5025155    | 2   | WASHER, 5/16" SAE                               |
| 38     | 5025011X6  | 2   | BOLT, 5/16-18 X 3/4 GD5                         |
| 39     | 5025392    | 2   | NUT, 5/16-18 HEX NYLOCK FLANGE                  |
| 40     | 5020639    | 1   | SPRING, EXTENSION                               |
| 41     | 5023343    | 10  | BUSHING, 1.00 X 1.13 X 1.38, PLASTIC            |
| 42     | 5300038    | 1   | ASSM, REAR DECK LIFT LH                         |
| 43     | 5300039    | 1   | ASSM, REAR DECK LIFT RH<br>-(not shown)         |
| 44     | 5021733    | 1   | KNOB, PLASTIC, 1/2-13                           |
| 45     | 5401094B   | 1   | WELD, DECK LIFT LEVER, LH - RED                 |
| 46     | 5401093B   | 1   | WELD, DECK LIFT LEVER, RH - RED<br>-(not shown) |
| 47     | 5022045    | 1   | PIN, COTTERLESS                                 |
| 48     | 5025293    | 4   | WASHER, 3/8" GD.9 FLAT                          |
| 49     | 5025158    | 1   | WASHER, 1/2 SAE                                 |

### Deck Lift Group (S/N: 2000729894 & Above)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



NOTE: Unless Noted Otherwise,  
LH and RH Components  
are identical.

25 RH Deck Lift Lever  
Not Shown

43 RH Lift Frame  
Not Shown

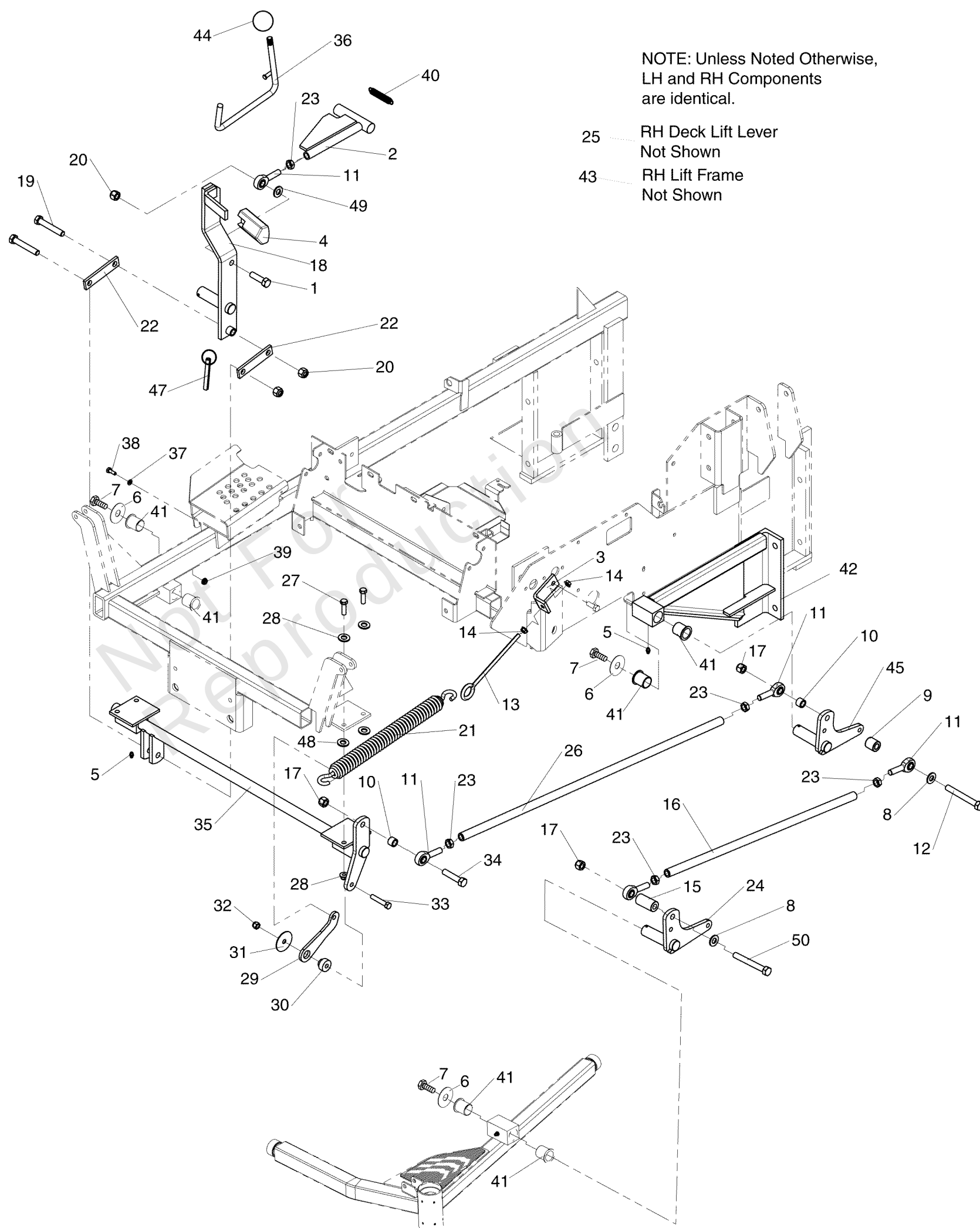
**Deck Lift Group (S/N: 2000729894 & Above)**

| REF NO | PART NO    | QTY | DESCRIPTION                                     |
|--------|------------|-----|-------------------------------------------------|
| 1      | 5025018X14 | 1   | BOLT, 1/2-20 X 1-3/4" GD8 CZ                    |
| 2      | 5061119B   | 1   | WELD, DECK ADJUST LINK                          |
| 3      | 5061355B   | 2   | ANCHOR, EYEBOLT                                 |
| 4      | 5104262    | 1   | PEDAL, Rubber                                   |
| 5      | 5020095    | 4   | GREASE FITTING, 1/4-28 STRAIGHT                 |
| 6      | 5100548    | 5   | WASHER, .390 X 1.50 X .109                      |
| 7      | 5025443    | 5   | BOLT, 3/8-16 X 3/4, PLT W/PATCH                 |
| 8      | 5025440    | 4   | WASHER, 1/2" GD9 YZ                             |
| 9      | 5049777    | 2   | SPACER, .52 X 1.00 X 1.00                       |
| 10     | 5047027    | 4   | SPACER, .51 X .75 X .56                         |
| 11     | 5022434    | 9   | BALL JOINT, 1/2-20, MALE                        |
| 12     | 5025017X32 | 2   | BOLT, 1/2-13 X 4" GD5 CZ                        |
| 13     | 5021811    | 2   | EYE BOLT, 3/8-16 X 8", 1" EYE                   |
| 14     | 5025034    | 4   | NUT, 3/8-16 HEX                                 |
| 15     | 5061781    | 2   | SPACER, .52 X 1.00 X 1.15                       |
| 16     | 5061350    | 2   | ROD, DECK LIFT OUTER                            |
| 17     | 5025056    | 6   | NUT, 1/2-13 HEX NYLON LOCK                      |
| 18     | 5402813B   | 1   | WELD, DECK LIFT PEDAL - RED                     |
| 19     | 5025018X24 | 2   | BOLT, 1/2-20 X 3" GD5 YZ                        |
| 20     | 5025098    | 3   | NUT, Hex, Nylon Lock, 1/2-20                    |
| 21     | 5023392    | 2   | SPRING, DECK LIFT ASSIST                        |
| 22     | 5044994B   | 2   | LINK, DECK LIFT - RED                           |
| 23     | 5025089    | 9   | NUT, 1/2-20 HEX JAM                             |
| 24     | 5401671A   | 1   | WELD, DECK LIFT LEVER, LH - BLK                 |
| 25     | 5401672A   | 1   | WELD, DECK LIFT LEVER, RH - BLK<br>-(not shown) |
| 26     | 5061349    | 2   | ROD, DECK LIFT INNER                            |
| 27     | 5025013X10 | 4   | BOLT, 3/8-16 X 1-1/4" GD5 CZ                    |
| 28     | 5025394    | 6   | NUT, 3/8-16 HEX NYLOCK FLANGE                   |
| 29     | 5061224B   | 2   | LINK, SPRING                                    |
| 30     | 5061227    | 2   | BUSHING, DECK PIVOT                             |
| 31     | 5025326    | 2   | WASHER, .39 X 2.00 X .14                        |
| 32     | 5025156    | 6   | WASHER, 3/8 SAE                                 |
| 33     | 5025013X16 | 2   | BOLT, 3/8-16 X 2, GD5, CZ                       |
| 34     | 5025017X18 | 2   | BOLT, 1/2-13 X 2-1/4" GD5 CZ                    |
| 35     | 5400924B   | 1   | WELD, LIFT SHAFT, IS5000Z - RED                 |
| 36     | 5061116B   | 1   | WELD, ROD DECK LIFT                             |
| 37     | 5025155    | 2   | WASHER, 5/16" SAE                               |
| 38     | 5025011X6  | 2   | BOLT, 5/16-18 X 3/4 GD5                         |
| 39     | 5025392    | 2   | NUT, 5/16-18 HEX NYLOCK FLANGE                  |
| 40     | 5020639    | 1   | SPRING, EXTENSION                               |
| 41     | 5023343    | 10  | BUSHING, 1.00 X 1.13 X 1.38, PLASTIC            |
| 42     | 5300038    | 1   | ASSM, REAR DECK LIFT LH                         |
| 43     | 5300039    | 1   | ASSM, REAR DECK LIFT RH<br>-(not shown)         |
| 44     | 5021733    | 1   | KNOB, PLASTIC, 1/2-13                           |
| 45     | 5402812B   | 1   | WELD, DECK LIFT LEVER, LH - RED                 |
| 46     | 5402811B   | 1   | WELD, DECK LIFT LEVER, RH - RED<br>-(not shown) |
| 47     | 5022045    | 1   | PIN, COTTERLESS                                 |
| 48     | 5025293    | 4   | WASHER, 3/8" GD.9 FLAT                          |
| 49     | 5025158    | 1   | WASHER, 1/2 SAE                                 |

### Deck Lift Group (S/N: 2000729894 & Above)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



NOTE: Unless Noted Otherwise,  
LH and RH Components  
are identical.

25 RH Deck Lift Lever  
Not Shown

43 RH Lift Frame  
Not Shown

*Deck Lift Group (S/N: 2000729894 & Above)*

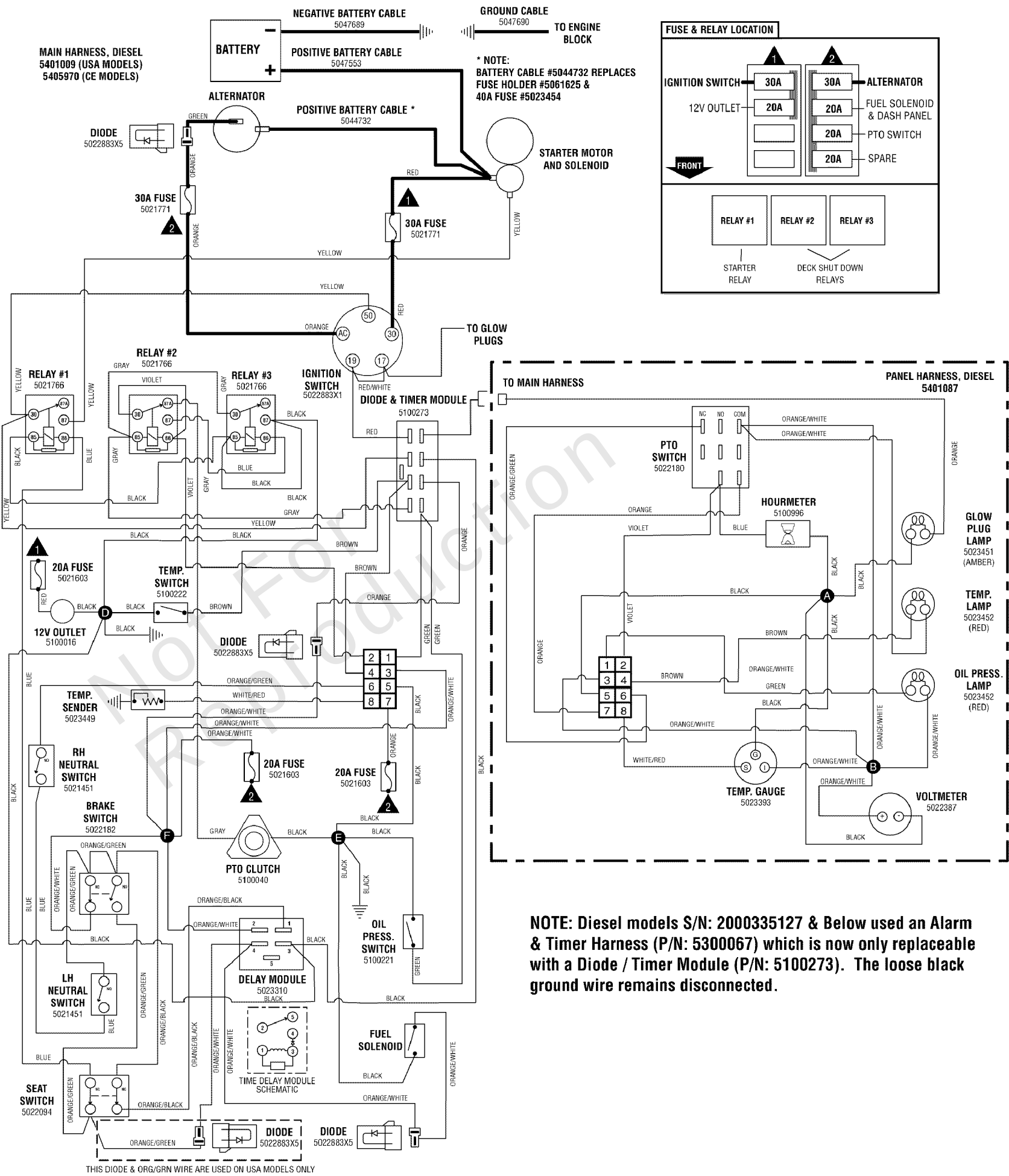
| REF NO | PART NO    | QTY | DESCRIPTION              |
|--------|------------|-----|--------------------------|
| 50     | 5025017X24 | 2   | BOLT, 1/2-13 X 3" GD5 CZ |

Not For Reproduction

# Electrical Schematic - Charging Circuit

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



**NOTE:** Diesel models S/N: 2000335127 & Below used an Alarm & Timer Harness (P/N: 5300067) which is now only replaceable with a Diode / Timer Module (P/N: 5100273). The loose black ground wire remains disconnected.

## *Electrical Schematic - Charging Circuit*

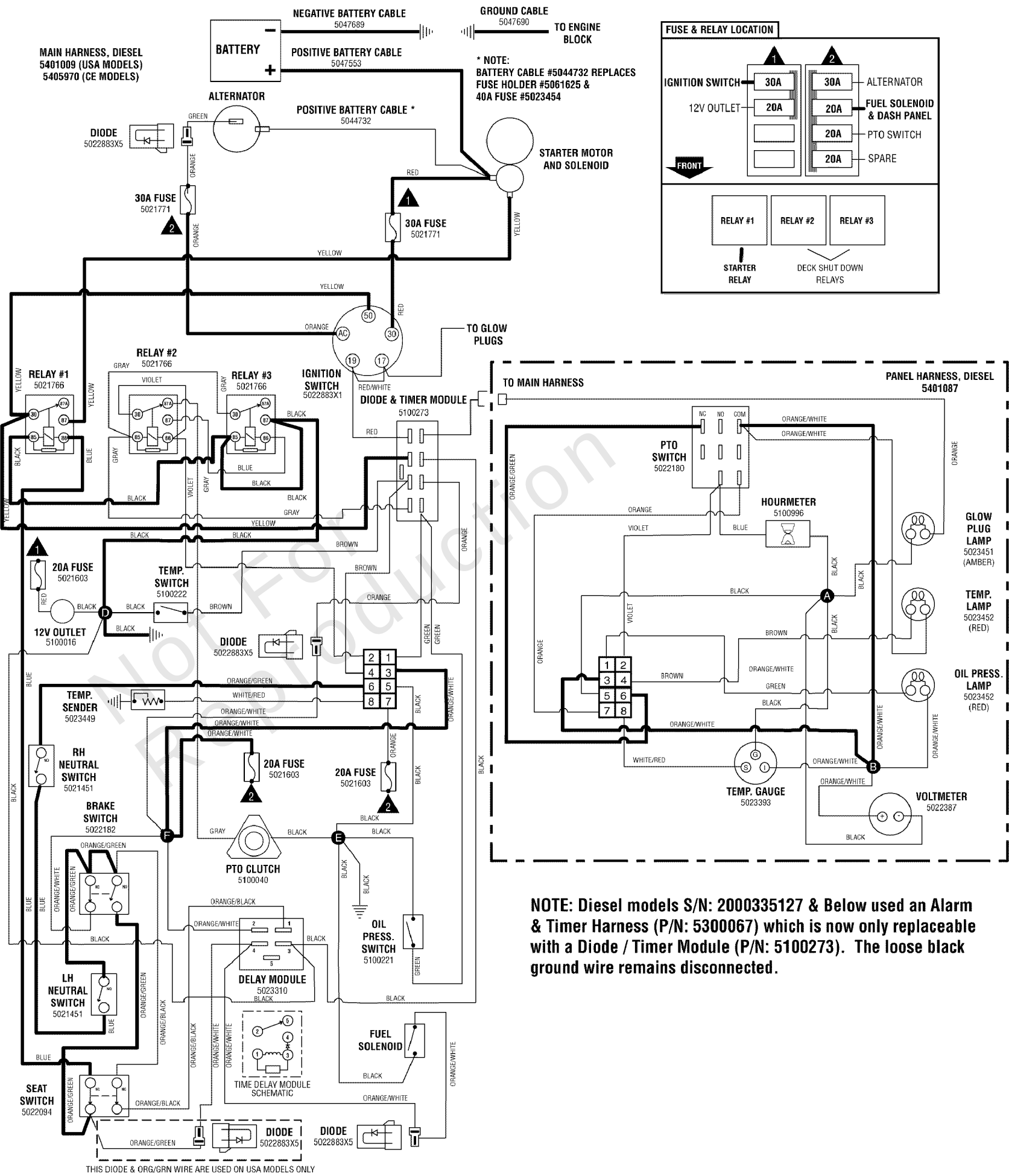
| REF NO | PART NO | QTY | DESCRIPTION                                                              |
|--------|---------|-----|--------------------------------------------------------------------------|
| 0010   | -----   | 1   | BATTERY, WET (BCI58, 500 CCA)<br>-(Information for replacement battery). |

Not For Reproduction

# Electrical Schematic - Cranking Circuit

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



*Electrical Schematic - Cranking Circuit*

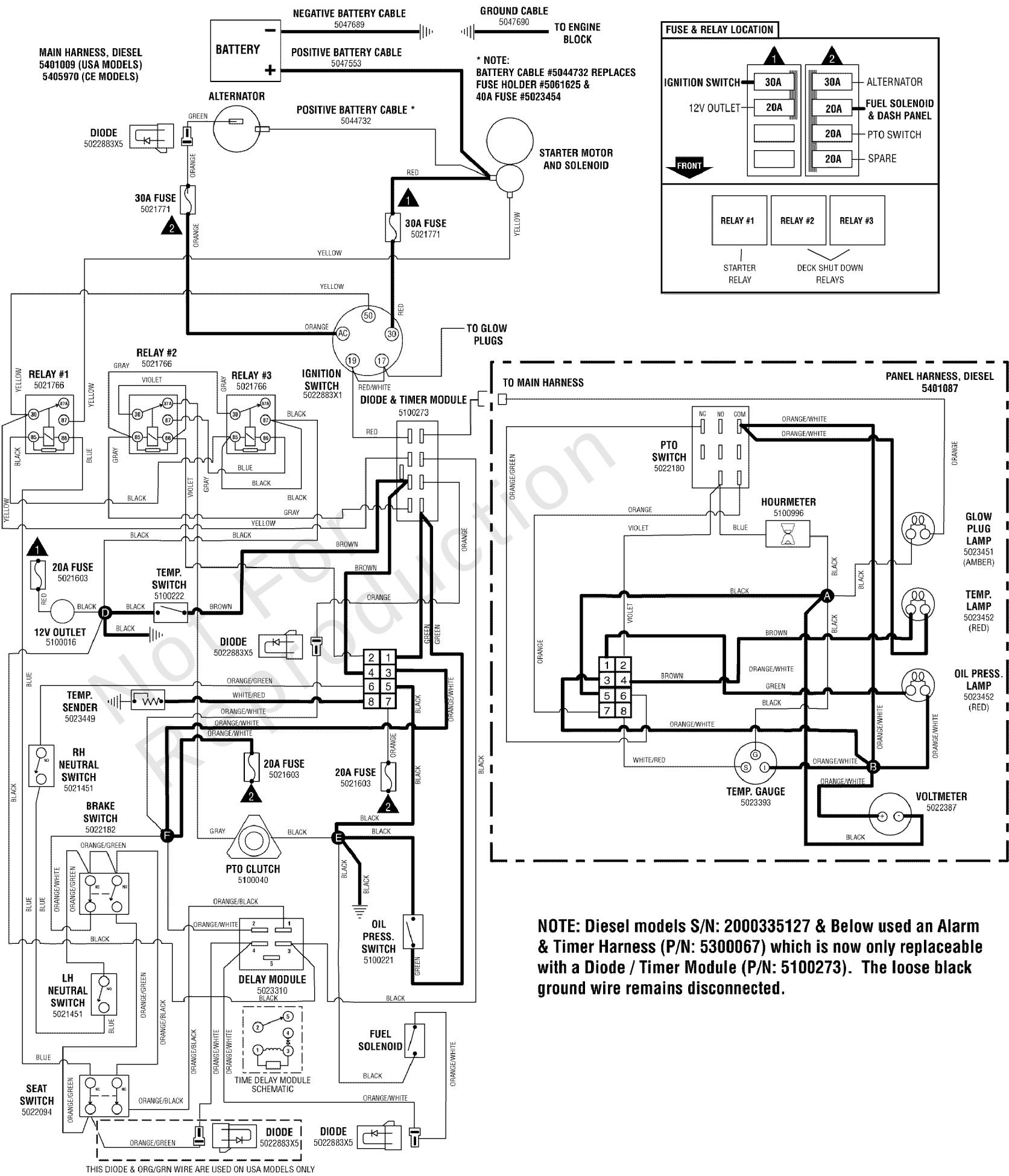
| REF NO | PART NO | QTY | DESCRIPTION                                                              |
|--------|---------|-----|--------------------------------------------------------------------------|
| 0010   | -----   | 1   | BATTERY, WET (BCI58, 500 CCA)<br>-(Information for replacement battery). |

Not For Reproduction

# Electrical Schematic - Gauges & Warning Lamps Circuit

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



**NOTE:** Diesel models S/N: 2000335127 & Below used an Alarm & Timer Harness (P/N: 5300067) which is now only replaceable with a Diode / Timer Module (P/N: 5100273). The loose black ground wire remains disconnected.

## *Electrical Schematic - Gauges & Warning Lamps Circuit*

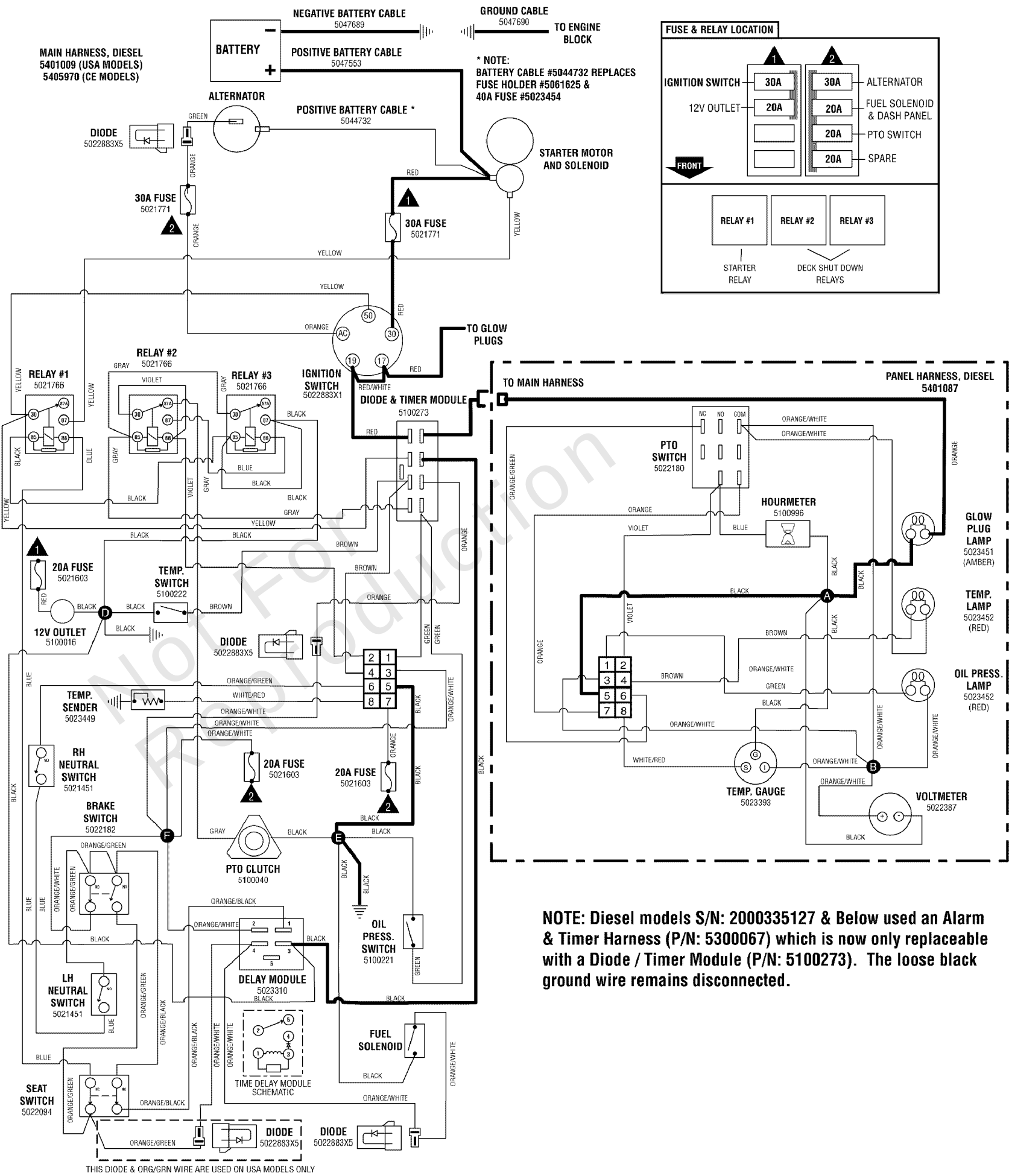
| REF NO | PART NO | QTY | DESCRIPTION                                                              |
|--------|---------|-----|--------------------------------------------------------------------------|
| 0010   | -----   | 1   | BATTERY, WET (BCI58, 500 CCA)<br>-(Information for replacement battery). |

Not For Reproduction

# Electrical Schematic - Glow Plug Heat Circuit

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



**NOTE:** Diesel models S/N: 2000335127 & Below used an Alarm & Timer Harness (P/N: 5300067) which is now only replaceable with a Diode / Timer Module (P/N: 5100273). The loose black ground wire remains disconnected.

## *Electrical Schematic - Glow Plug Heat Circuit*

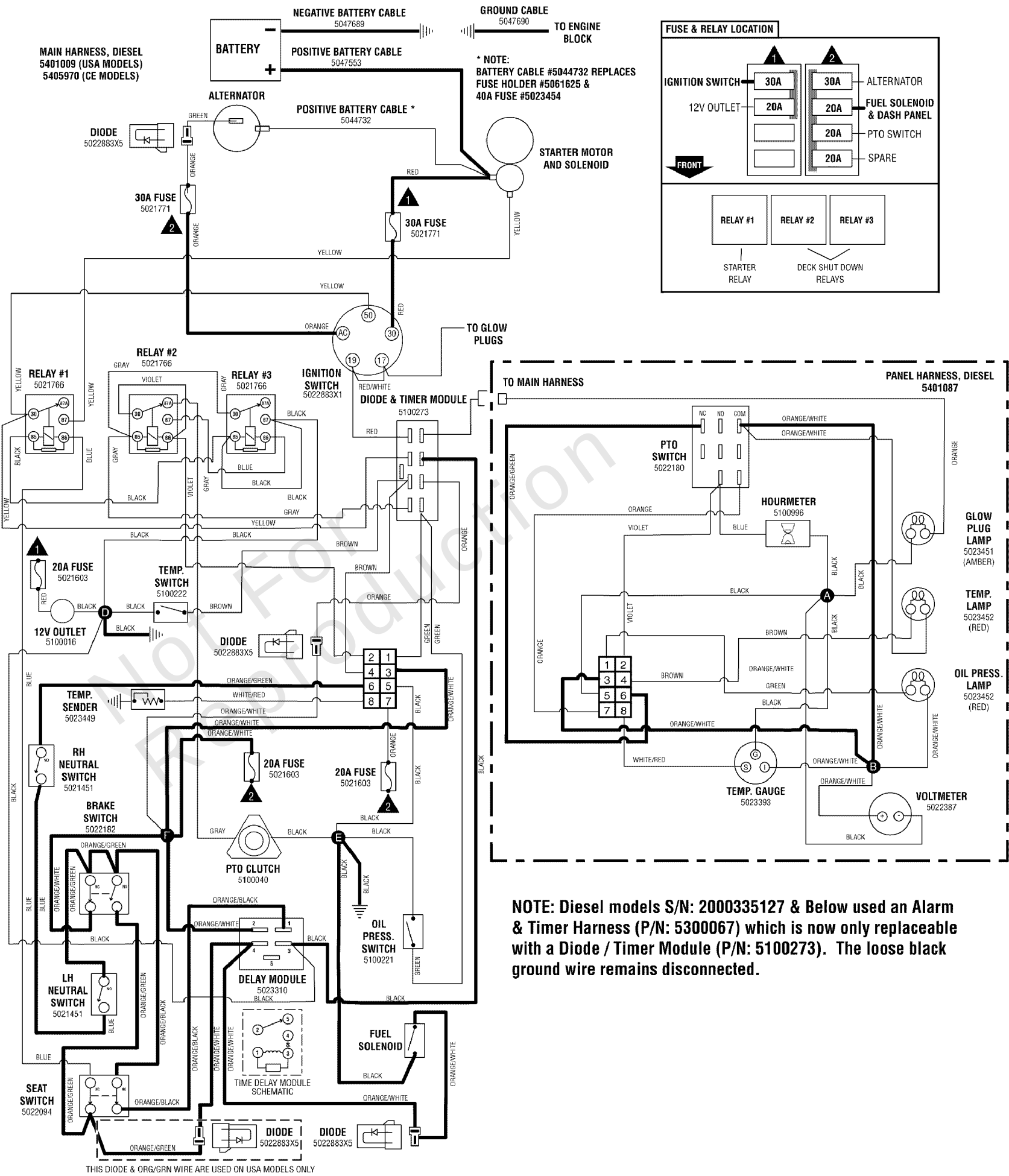
| REF NO | PART NO | QTY | DESCRIPTION                                                              |
|--------|---------|-----|--------------------------------------------------------------------------|
| 0010   | -----   | 1   | BATTERY, WET (BCI58, 500 CCA)<br>-(Information for replacement battery). |

Not For Reproduction

# Electrical Schematic - Operator Presence/Safety Circuit

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



**NOTE:** Diesel models S/N: 2000335127 & Below used an Alarm & Timer Harness (P/N: 5300067) which is now only replaceable with a Diode / Timer Module (P/N: 5100273). The loose black ground wire remains disconnected.

*Electrical Schematic - Operator Presence/Safety Circuit*

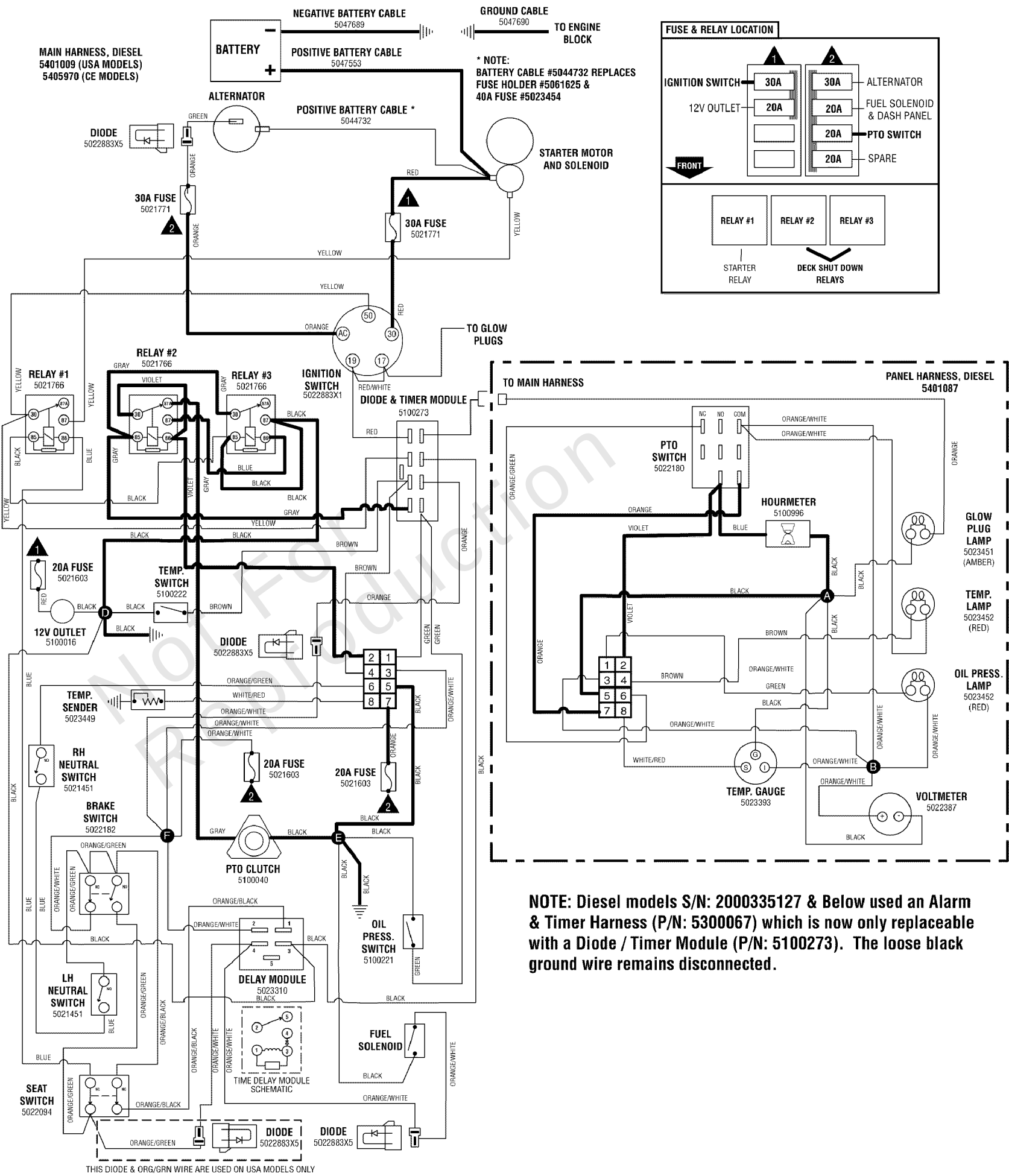
| REF NO | PART NO | QTY | DESCRIPTION                                                              |
|--------|---------|-----|--------------------------------------------------------------------------|
| 0010   | -----   | 1   | BATTERY, WET (BCI58, 500 CCA)<br>-(Information for replacement battery). |

Not For Reproduction

# Electrical Schematic - PTO & Hourmeter Circuit

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



**NOTE:** Diesel models S/N: 2000335127 & Below used an Alarm & Timer Harness (P/N: 5300067) which is now only replaceable with a Diode / Timer Module (P/N: 5100273). The loose black ground wire remains disconnected.

*Electrical Schematic - PTO & Hourmeter Circuit*

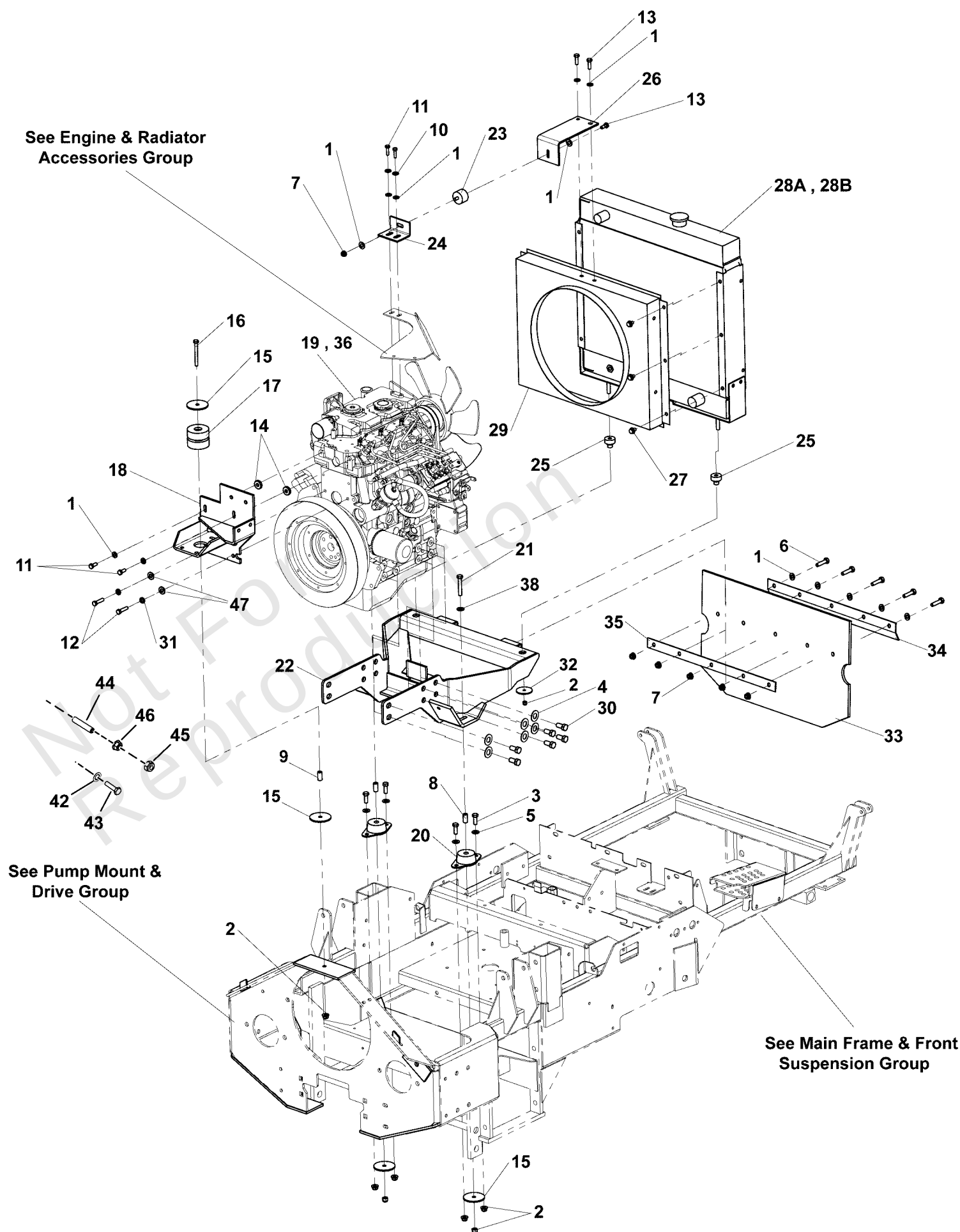
| REF NO | PART NO | QTY | DESCRIPTION                                                              |
|--------|---------|-----|--------------------------------------------------------------------------|
| 0010   | -----   | 1   | BATTERY, WET (BCI58, 500 CCA)<br>-(Information for replacement battery). |

Not For Reproduction

# Engine & Mount Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



## Engine & Mount Group

| REF NO | PART NO    | QTY | DESCRIPTION                                                     |
|--------|------------|-----|-----------------------------------------------------------------|
| 1      | 5025155    | 12  | WASHER, 5/16" SAE                                               |
| 2      | 5025394    | 9   | NUT, 3/8-16 HEX NYLOCK FLANGE                                   |
| 3      | 5025013X8  | 4   | BOLT, 3/8-16 X 1" GD5 CZ                                        |
| 4      | 5025150    | 12  | WASHER, 1/2" USS                                                |
| 5      | 5025156    | 9   | WASHER, 3/8 SAE                                                 |
| 6      | 5025011X8  | 5   | BOLT, 5/16-18 X 1" GD5 YZ                                       |
| 7      | 5025392    | 5   | NUT, 5/16-18 HEX NYLOCK FLANGE                                  |
| 8      | 5044959    | 2   | SPACER, .38 X .50 X 1.00                                        |
| 9      | 5047380    | 1   | SPACER, .38 X .62 X 1.62                                        |
| 10     | 5025170    | 2   | WASHER, 5/16 LOCK CZ                                            |
| 11     | 5025359    | 3   | BOLT, M10-1.5 X 16MM GD8.8                                      |
| 12     | 5025358    | 2   | BOLT, M10-1.5 X 30MM GD8.8                                      |
| 13     | 5025011X6  | 7   | BOLT, 5/16-18 X 3/4 GD5                                         |
| 14     | 5044960    | 2   | SPACER, .39 X 1.00 X .25                                        |
| 15     | 5047381    | 4   | WASHER, .39 X 2.50 X .125                                       |
| 16     | 5025013X24 | 1   | BOLT, 3/8-16 X 3" GD5 CZ                                        |
| 17     | 5022897    | 1   | ISO-MOUNT, REAR                                                 |
| 18     | 5400578B   | 1   | WELD,MOTOR MOUNT, UPPER - RED                                   |
| 19     | -----      | 1   | * ENGINE,CAT DIESEL#3013C, TIER 3<br>-(S/N: 2013262991 & Below) |
| 20     | 5022896    | 2   | ISO-MOUNT, ENGINE                                               |
| 21     | 5025013X18 | 2   | BOLT, 3/8-16 X 2-1/4" GD5 CZ                                    |
| 22     | 5400294B   | 1   | WELD, RADIATOR MOUNT - RED                                      |
| 23     | 5023130    | 1   | MOUNT,ISO,TOP,RAD 5000Z-DIESEL                                  |
| 24     | 5400899B   | 1   | MOUNT, RADIATOR, ENGINE - RED<br>-(2 piece)                     |
| 25     | 5023131    | 2   | MOUNT, ISO, BOTTOM, RAD 5000Z-DIESEL                            |
| 26     | 5400898B   | 1   | MOUNT, RADIATOR, ENGINE - RED                                   |
| 27     | 5023158    | 5   | BOLT, 5/16-18 X 1/2" FLANGE, SPEC                               |
| 28A    | 5023127    | 1   | ** RADIATOR,5000Z,DIESEL<br>-(S/N: 2015214824 & Below)          |
| 28B    | 5102738    | 1   | RADIATOR, IS5100Z, DIESEL - NET<br>-(S/N: 2015214825 & Above)   |
| 29     | 5023128    | 1   | ** SHROUD, RADIATOR, 5000Z-DIESEL<br>-(S/N: 2015214824 & Below) |
| 30     | 5025383    | 12  | BOLT, M14-1.5 X 25MM                                            |
| 31     | 5025336    | 2   | WASHER, LOCK, 10MM                                              |
| 32     | 5025305    | 2   | WASHER, .41 X 1.75 X .14                                        |
| 33     | 5100296    | 1   | SEAL, RADIATOR LOWER                                            |
| 34     | 5048564B   | 1   | PLATE, RETAINING OUTER - RED                                    |
| 35     | 5048565B   | 1   | PLATE, RETAINING - RED                                          |
| 36     | -----      | 1   | * ENGINE, CAT DIESEL, TIER 4<br>-(S/N: 2013262992 & Above)      |
| 37     | 5101492    | 1   | TIE,SELF-LOCKING, 24"<br>-(Not Shown)                           |
| 38     | 5100548    | 2   | WASHER, .390 X 1.50 X .109, YZ                                  |
| 39     | 5102738X1  | 1   | RADIATOR ONLY<br>-(Not Shown - S/N: 2015214825 & Above - SV)    |
| 40     | 5102738X2  | 1   | SHROUD, RADIATOR<br>-(Not Shown - S/N: 2015214825 & Above - SV) |

### Footnotes:

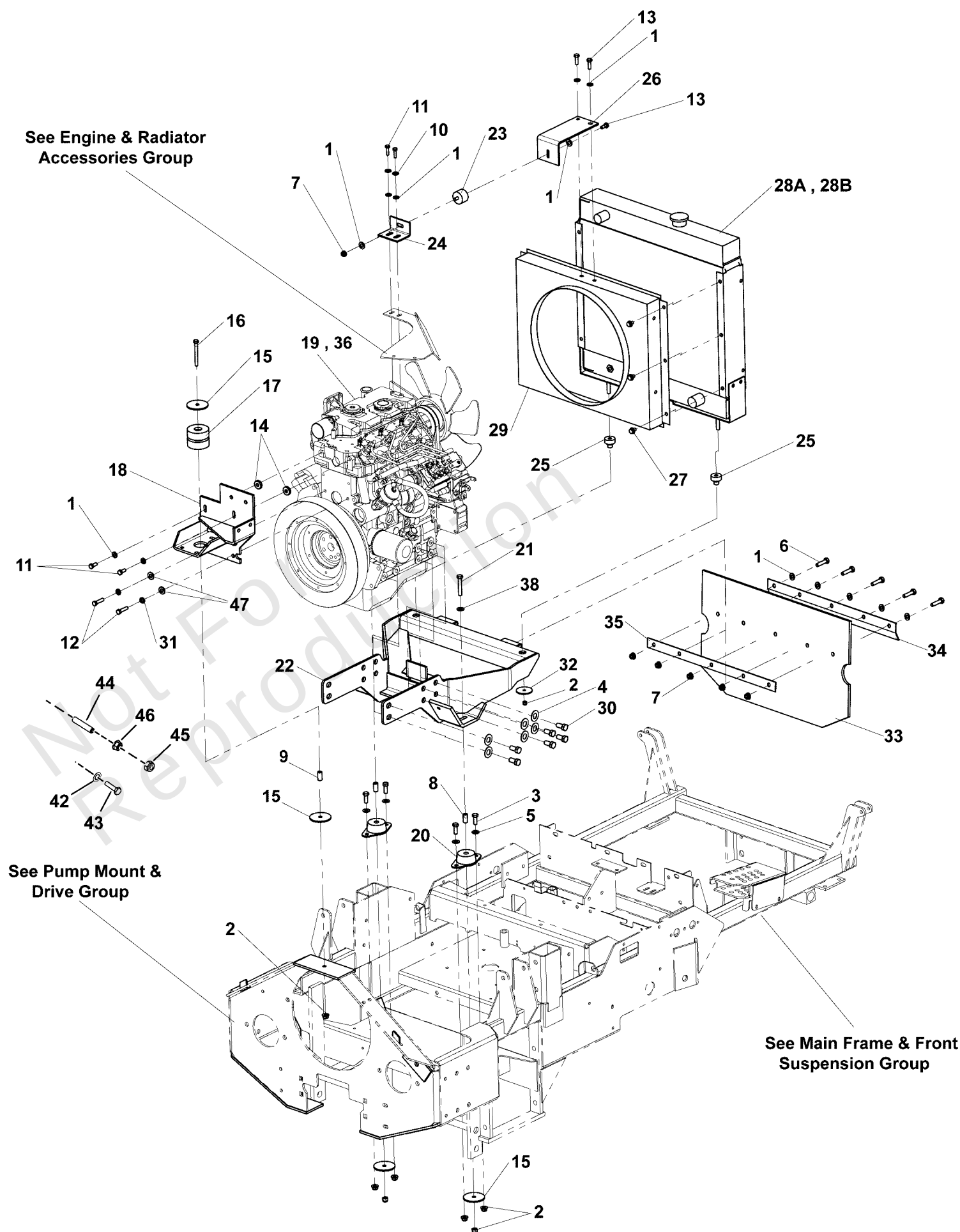
\*\* 5023127 & 5023128 replaced together by 5102738.

\* See your local Caterpillar distributor for parts & service.

# Engine & Mount Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



## Engine & Mount Group

| REF NO | PART NO   | QTY | DESCRIPTION                                                           |
|--------|-----------|-----|-----------------------------------------------------------------------|
| 41     | 5102738X3 | 1   | CAP, RADIATOR<br>-(Not Shown - S/N: 2015214825 & Above - SV)          |
| 42     | 5103904   | 1   | WASHER, M10, INTERNAL TOOTH LOCK, SS<br>-(S/N: 2016607952 & Below)    |
| 43     | 5025359   | 1   | BOLT, M10-1.5 X 16MM GD8.8<br>-(S/N: 2016607952 & Below)              |
| 44     | 5025598   | 1   | SOC SET SCREW, M10-1.5 X 50, SS, CAP PT<br>-(S/N: 2016607953 & Above) |
| 45     | 5025428   | 1   | NUT, M10-1.5, NYLON INSERT<br>-(S/N: 2016607953 & Above)              |
| 46     | 5025599   | 1   | HEX NUT, FLG, M10-1.5 SER CZ, NO SEALER<br>-(S/N: 2016607953 & Above) |
| 47     | 5025293   | 2   | WASHER, 3/8" GR. 9 FLAT                                               |

Not For  
Reproduction

### Footnotes:

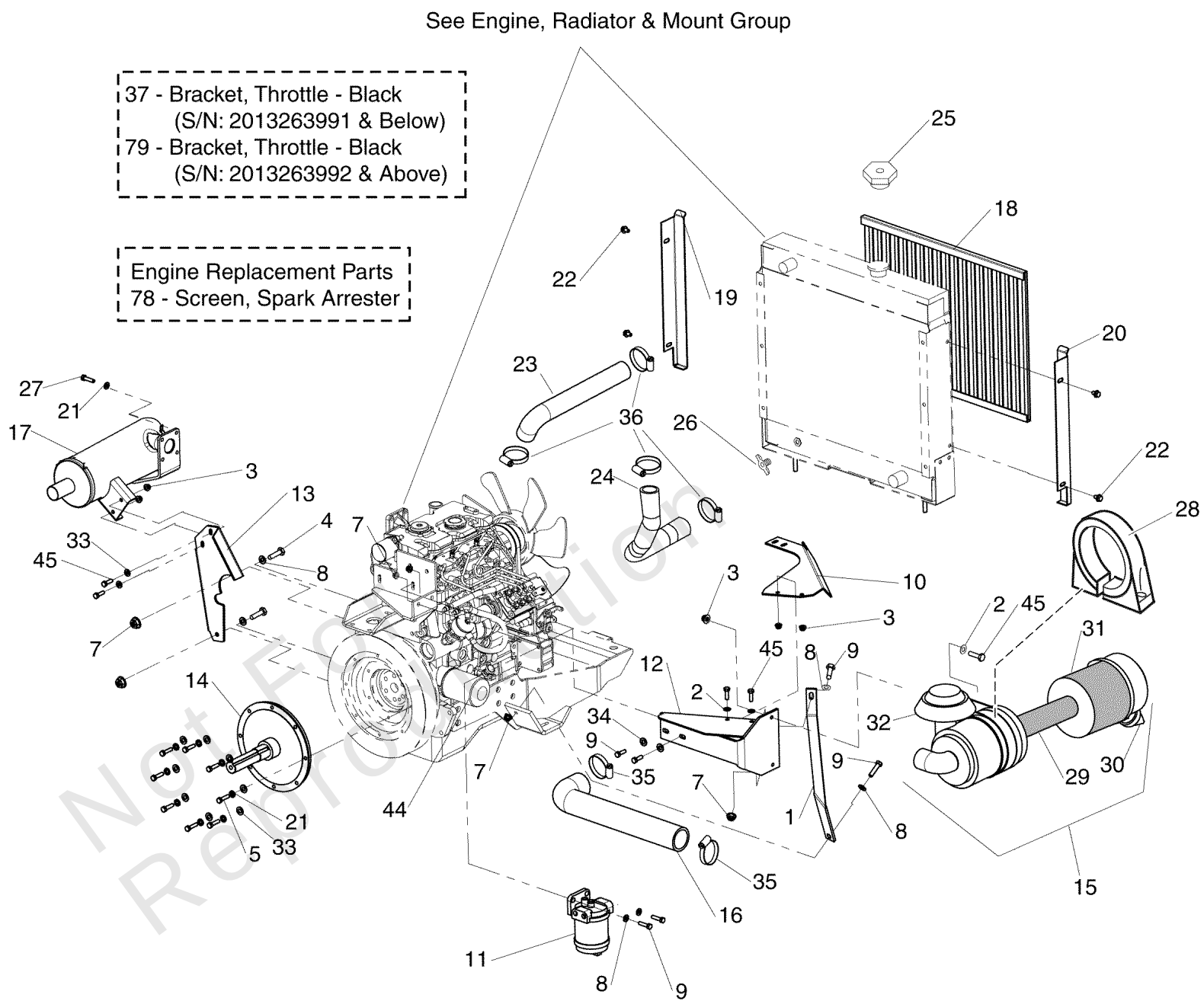
\*\* 5023127 & 5023128 replaced together by 5102738.

\* See your local Caterpillar distributor for parts & service.

**Engine & Radiator Accessories Group**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



## Engine & Radiator Accessories Group

| REF NO | PART NO     | QTY | DESCRIPTION                                                                    |
|--------|-------------|-----|--------------------------------------------------------------------------------|
| 1      | 5400603B    | 1   | SUPPORT, AIR FILTER - RED                                                      |
| 2      | 5025155     | 2   | WASHER, 5/16" SAE                                                              |
| 3      | 5025392     | 6   | NUT, 5/16-18 HEX NYLOCK FLANGE                                                 |
| 4      | 5025013X14  | 2   | BOLT, 3/8-16 X 1-3/4" GD5 CZ                                                   |
| 5      | 5025011X10  | 8   | BOLT, 5/16-18 X 1-1/4" GD5 YZ                                                  |
| 6      | 5023449     | 1   | SENDER, WATER, TEMPERATURE, 3/8 NPT<br>-(Not shown)                            |
| 7      | 5025394     | 8   | NUT, 3/8-16 HEX NYLOCK FLANGE                                                  |
| 8      | 5025156     | 6   | WASHER, 3/8 SAE                                                                |
| 9      | 5025013X10  | 4   | BOLT, 3/8-16 X 1-1/4" GD5 CZ                                                   |
| 10     | 5400582B    | 1   | PLATE, AIR FILTER - RED                                                        |
| 11     | 5022883X19B | 1   | FUEL FILTER ASSEMBLY (19B & 19C)                                               |
| 11     | 5022883X19C | 1   | FUEL FILTER ELEMENT ONLY                                                       |
| 12     | 5049755B    | 1   | WELD, AIR FILTER MOUNT                                                         |
| 13     | 5400799B    | 1   | BRACKET, MUFFLER IS5000                                                        |
| 14     | 5100041     | 1   | * SHAFT, STUB, FLYWHEEL PLATE                                                  |
| 15     | 809218      | 1   | AIR CLEANER ASSY                                                               |
| 16     | 5100086     | 1   | HOSE, AIR FILTER IS5000                                                        |
| 17     | 5100556     | 1   | MUFFLER, 3013C CAT ENGINE                                                      |
| 18     | 5023129     | 1   | SCREEN, FRONT,RAD, IS5000Z-DSL                                                 |
| 19     | 5048533B    | 1   | BRACKET, RADIATOR SCREEN - LH                                                  |
| 20     | 5048534B    | 1   | BRACKET, RADIATOR SCREEN - RH                                                  |
| 21     | 5025170     | 8   | WASHER, 5/16 LOCK CZ                                                           |
| 22     | 5023158     | 4   | BOLT, 5/16-18 X 1/2" FLANGE, SPEC                                              |
| 23     | 5100393     | 1   | HOSE, UPPER RADIATOR CAT                                                       |
| 24     | 5100394     | 1   | HOSE, LOWER RADIATOR - CAT                                                     |
| 25     | 5023150     | 1   | CAP, RADIATOR - NET                                                            |
| 26     | 5023151     | 1   | PETCOCK VALVE                                                                  |
| 27     | 5025237X25  | 4   | BOLT, M8-1.25 X 25MM GR 8.8                                                    |
| 28     | 807213      | 1   | BRACKET, AIR CLEANER ASSY                                                      |
| 29     | 841238      | 1   | AIR FILTER ELEMENT (SECONDARY)                                                 |
| 30     | 5022883X32  | 1   | AIR CLEANER DUST VALVE                                                         |
| 31     | 841237      | 1   | ELEMENT ASSY                                                                   |
| 32     | 593754      | 1   | CAP, A/C RAIN                                                                  |
| 33     | 5025292     | 11  | WASHER, 5/16" GD.9 FLAT                                                        |
| 34     | 5025293     | 2   | WASHER, 3/8" GD.9 FLAT                                                         |
| 35     | 5023448     | 2   | CLAMP, SS HOSE 2-3/4"                                                          |
| 36     | 5022883X54  | 4   | HOSE CLAMP                                                                     |
| 37     | 5400249A    | 1   | BRACKET, THROTTLE - BLACK<br>-(Not Shown - S/N: 2013262991 & Below)            |
| 38     | 5047650     | 1   | CLAMP, BARREL, THROTTLE<br>-(Not shown - Throttle parts on engine)             |
| 39     | 5022901     | 1   | CLAMP, CONDUIT<br>-(Not shown - Throttle parts on engine)                      |
| 40     | 5025179X4   | 2   | SCREW, #10-24 X 1/2" ROUND PHILLIPS<br>-(Not shown - Throttle parts on engine) |
| 41     | 5025169     | 2   | WASHER, 1/4 LOCK<br>-(Not shown - Throttle parts on engine)                    |
| 42     | 5025271     | 1   | NUT, #10-24 HEX NYLON LOCK<br>-(Not shown - Throttle parts on engine)          |

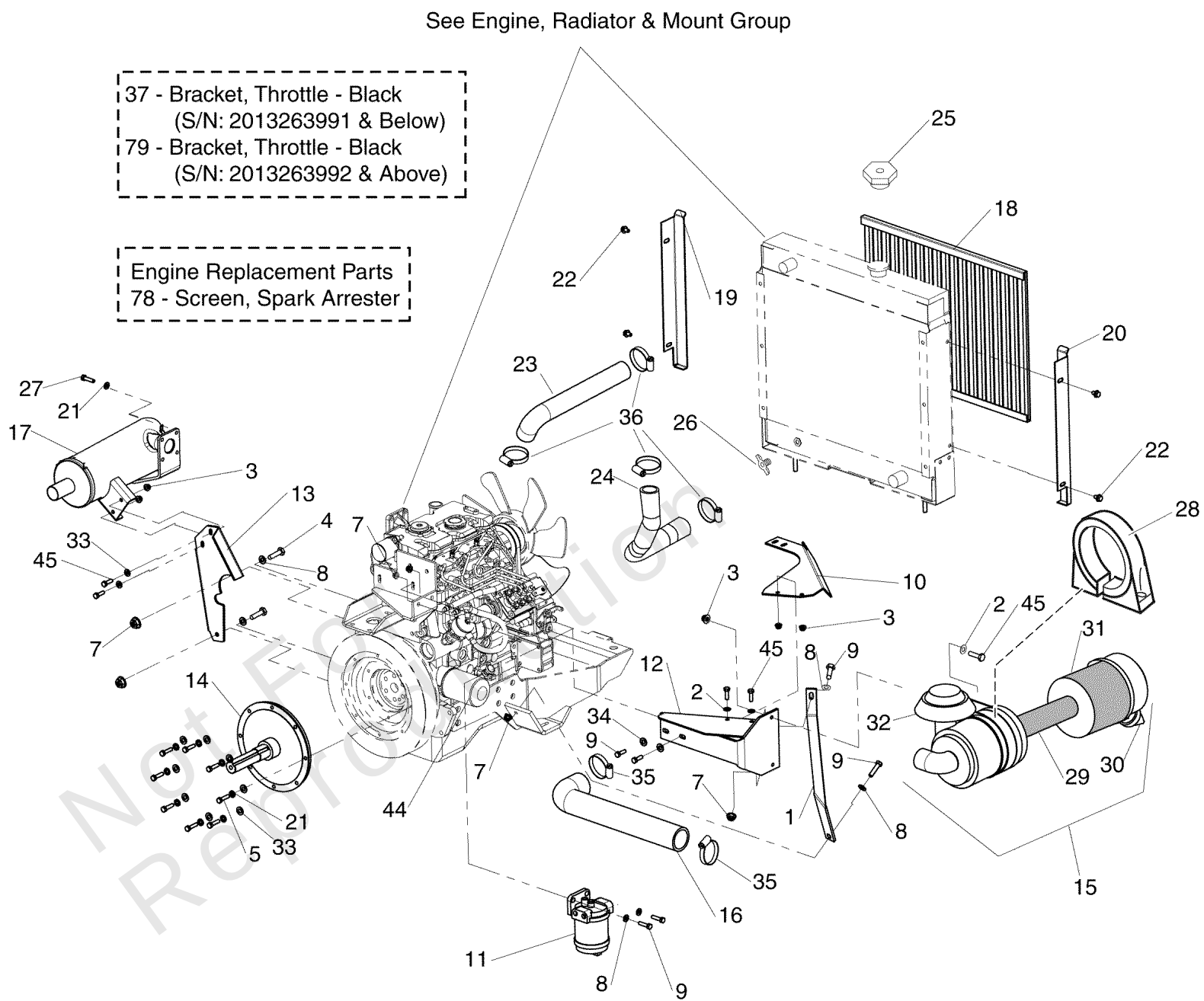
### Footnotes:

\* Order 5025499 (1) & 5101524 (1) when replacing 5100041

**Engine & Radiator Accessories Group**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



## Engine & Radiator Accessories Group

| REF NO | PART NO     | QTY | DESCRIPTION                                            |
|--------|-------------|-----|--------------------------------------------------------|
| 43     | 5025420     | 1   | NUT, M6-1.0<br>-(Not shown - For Alternator)           |
| 44     | 5022883X11  | 1   | FILTER, ENGINE OIL                                     |
| 45     | 5025011X8   | 2   | BOLT, 5/16-18 X 1" GD5 YZ                              |
| 46     | 5022883X7   | 1   | OIL FILL CAP<br>-(Not shown)                           |
| 47     | 5022883X8   | 1   | SEAL, OIL FILL<br>-(Not shown)                         |
| 48     | 5022883X9   | 1   | SOLENOID, FUEL, 1 - POST<br>-(Not shown)               |
| 49     | 5022883X10  | 1   | WASHER, FUEL SOLENOID<br>-(Not shown)                  |
| 50     | 5022883X12  | 1   | WATER PUMP<br>-(Not shown)                             |
| 51     | 5022883X16  | 1   | GASKET, WATER PUMP<br>-(Not shown)                     |
| 52     | 5022883X17  | 1   | THERMOSTAT<br>-(Not shown)                             |
| 53     | 5022883X18  | 1   | GASKET, THERMOSTAT<br>-(Not shown)                     |
| 54     | 5022883X20  | 1   | DIP STICK<br>-(Not shown)                              |
| 55     | 5022883X21  | 1   | PLUG, OIL DRAIN<br>-(Not shown)                        |
| 56     | 5022883X22  | 1   | WASHER, DRAIN PLUG<br>-(Not shown)                     |
| 57     | 5022883X23  | 1   | STARTER MOTOR<br>-(Not shown)                          |
| 58     | 5022883X24B | 1   | ALTERNATOR<br>-(Not shown)                             |
| 59     | 5022883X25  | 1   | BELT, FAN & WATER PUMP<br>-(Not shown)                 |
| 60     | 5022883X26  | 1   | FUEL PUMP,# 295-4070 - NET<br>-(Not shown)             |
| 61     | 5022883X27  | 1   | GASKET, FUEL PUMP<br>-(Not shown)                      |
| 62     | 5022883X28  | 1   | GLOW PLUG<br>-(Not shown)                              |
| 63     | 5022883X34  | 1   | TANK, EXPANSION, COMPLETE<br>-(Not shown)              |
| 64     | 5022883X35  | 1   | CAP, TANK, EXPANSION<br>-(Not shown)                   |
| 65     | 5022883X36  | 1   | GASKET, EXHAUST MANIFOLD - NET<br>-(Not shown)         |
| 66     | 5022883X39B | 1   | SWITCH, OIL PRESSURE, CAT DIESEL - NET<br>-(Not shown) |
| 67     | 5100222     | 1   | SWITCH, WATER TEMPERATURE - NET<br>-(Not shown)        |
| 68     | 5022883X41  | 1   | STARTER SOLENOID<br>-(Not shown)                       |
| 69     | 5022883X42  | 1   | SEAL, REAR MAIN - NET<br>-(Not shown)                  |
| 70     | 5022883X43  | 1   | SEAL, FRONT MAIN<br>-(Not shown)                       |
| 71     | 5022883X45  | 1   | INDICATOR, AIR CLEANER<br>-(Not shown)                 |

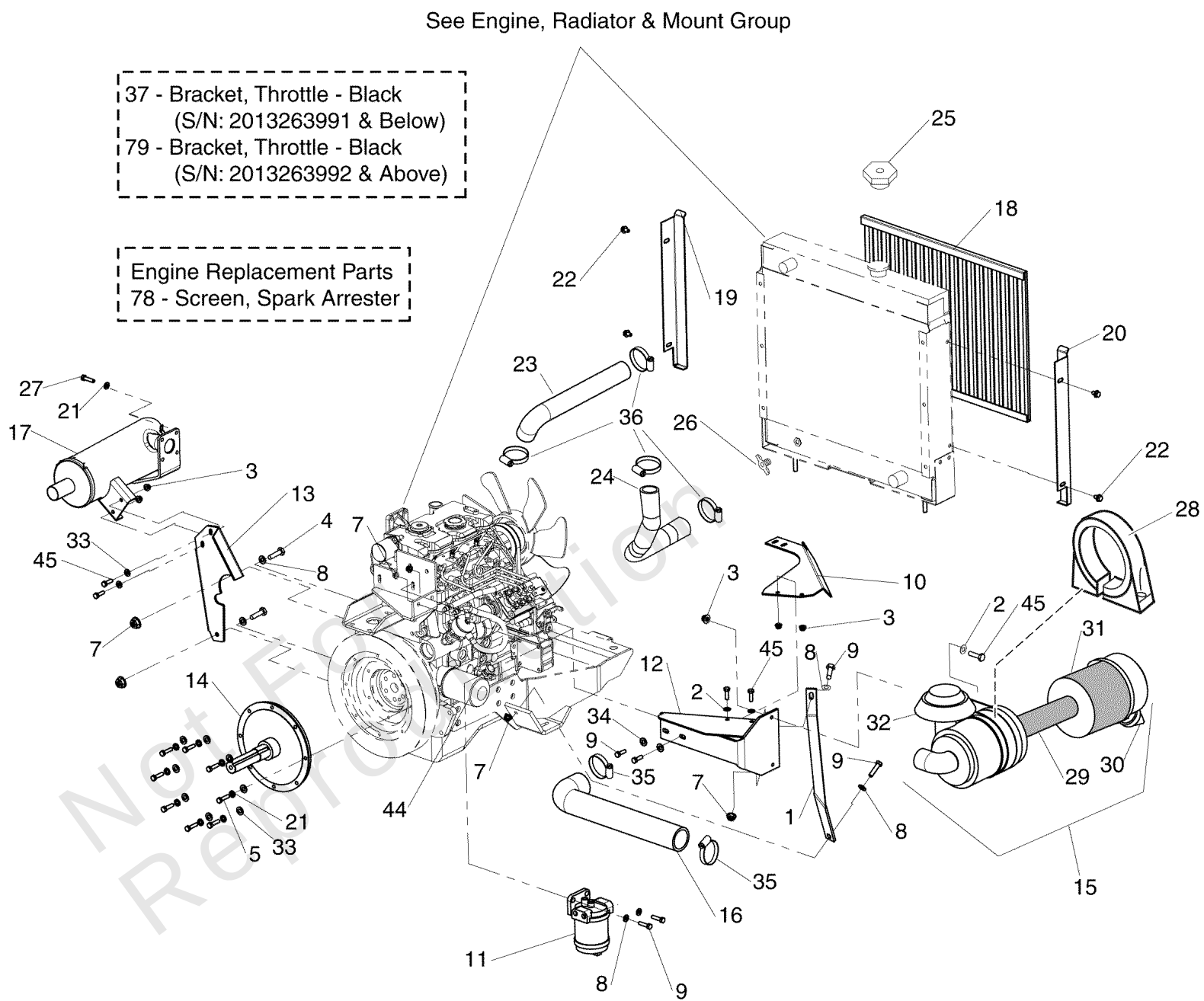
### Footnotes:

\* Order 5025499 (1) & 5101524 (1) when replacing 5100041

**Engine & Radiator Accessories Group**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



## Engine & Radiator Accessories Group

| REF NO | PART NO    | QTY | DESCRIPTION                                                         |
|--------|------------|-----|---------------------------------------------------------------------|
| 72     | 5022883X47 | 1   | INJECTOR ASSEMBLY<br>-(Not shown)                                   |
| 73     | 5022883X48 | 1   | WASHER, 4 HOLE<br>-(Not shown)                                      |
| 74     | 5022883X49 | 1   | WASHER, SEALING<br>-(Not shown)                                     |
| 75     | 5022883X50 | 1   | WASHER, CRUSH<br>-(Not shown)                                       |
| 76     | 5022883X55 | 1   | GASKET, VALVE COVER<br>-(Not shown)                                 |
| 77     | 5022883X56 | 1   | PARTS MANUAL, ENGINE<br>-(Not shown)                                |
| 78     | -----      | 1   | NO LONGER AVAILABLE - SCREEN, SPARK ARRESTER<br>-(Not shown)        |
| 79     | 5404060A   | 1   | BRACKET, THROTTLE - BLACK<br>-(Not Shown - S/N: 2013262992 & Above) |
| 80     | 5100202    | 1   | SOLENOID, FUEL, 2 - POST<br>-(Not shown)                            |
| 81     | 5103242    | 1   | CLAMP<br>-(Not Shown - Holds lower radiator hose #24)               |

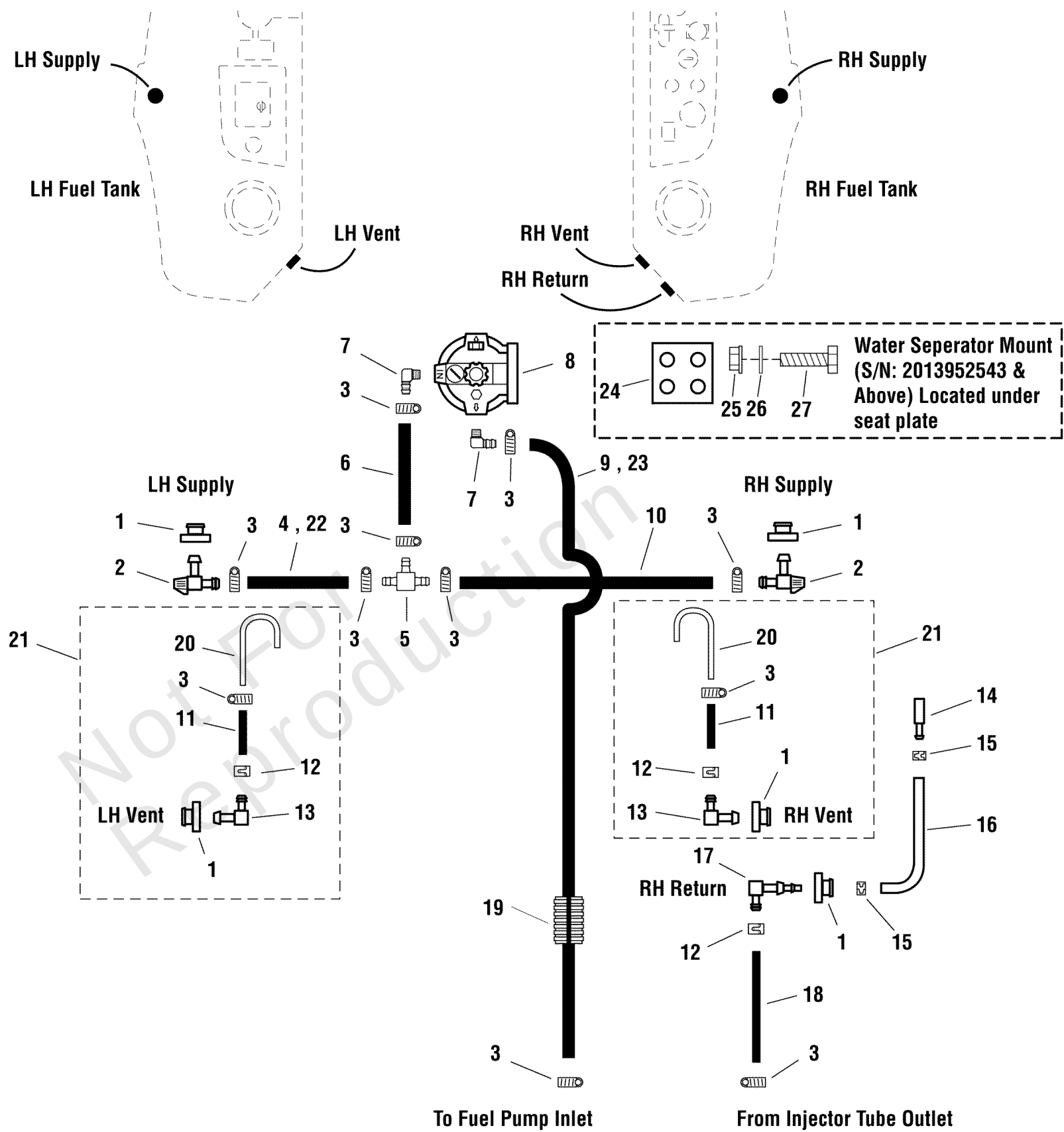
### Footnotes:

\* Order 5025499 (1) & 5101524 (1) when replacing 5100041

Fuel Supply Hose & Tank Replacement Parts Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



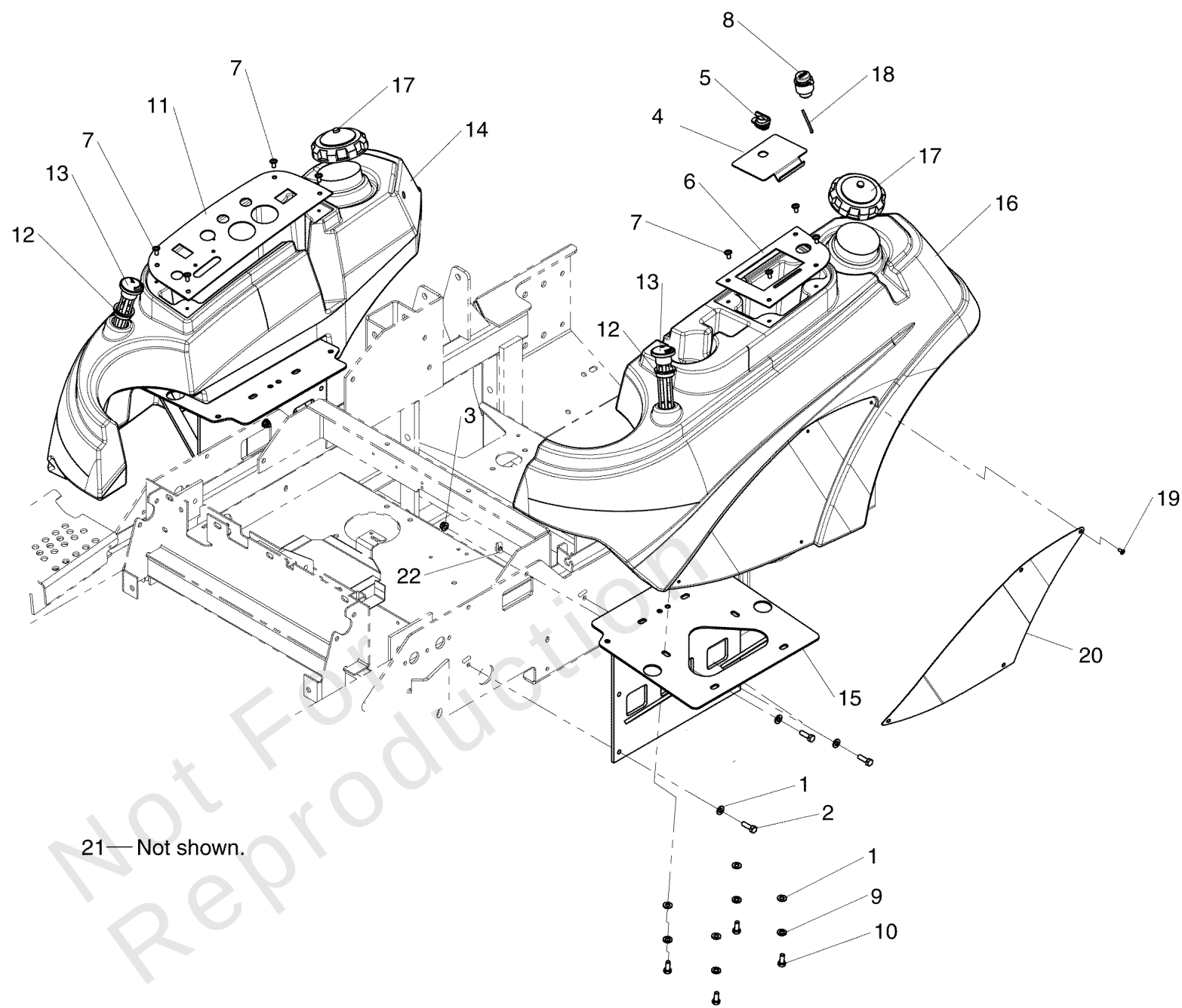
## Fuel Supply Hose & Tank Replacement Parts Group

| REF NO | PART NO      | QTY | DESCRIPTION                                                        |
|--------|--------------|-----|--------------------------------------------------------------------|
| 1      | 1726400      | 5   | BUSHING-FUEL TANK RED RUBBER                                       |
| 2      | 5023060      | 2   | VALVE, Fuel Shut Off                                               |
| 3      | 5022922      | 11  | CLAMP, #4 Hose                                                     |
| 4      | 5050919X26P5 | 1   | HOSE, 3/8" FUEL, 26.50"                                            |
| 5      | 5022920      | 1   | FITTING, TEE, 3/8" Hose                                            |
| 6      | 5050919X3P5  | 1   | HOSE, 3/8" FUEL, 3.50"<br>-(S/N: 2013952542 & Below)               |
| 7      | 5022708      | 2   | FITTING, 1/4" NPT, 90 Deg.                                         |
| 8      | 5022926      | 1   | FILTER/WATER SEPARATOR ASSEMBLY, Complete                          |
| 8      | 5022926X1    | 1   | FUEL FILTER                                                        |
| 8      | 5022926X2    | 1   | O-RING SEAL<br>-(between filter and bowl)                          |
| 8      | 5022926X3    | 1   | BOWL                                                               |
| 9      | 5050919X54   | 1   | HOSE, 3/8" FUEL, 54.00"<br>-(S/N: 2013952542 & Below)              |
| 10     | 5050919X35   | 1   | HOSE, 3/8" FUEL, 35.00"                                            |
| 11     | 5050831X8    | 2   | HOSE, 1/4" FUEL, 8.00"                                             |
| 12     | 93807        | 3   | CLAMP, Hose                                                        |
| 13     | 1674231      | 2   | ELBOW FITTING                                                      |
| 14     | -----        | 1   | SEE REF # 16                                                       |
| 15     | -----        | 2   | SEE REF # 16                                                       |
| 16     | 5101158      | 1   | HOSE ASSEMBLY                                                      |
| 17     | -----        | 1   | SEE REF # 16                                                       |
| 18     | 5050831X33P5 | 1   | HOSE, 1/4" FUEL, 33.50"                                            |
| 19     | 5050861X25   | 2   | LOOM, 5/8" I.D., 25                                                |
| 20     | 5404079      | 2   | VENT TUBE, DIESEL                                                  |
| 21     | 5600160      | 1   | KIT, FUEL TANK VENT LINE<br>-(Includes Ref Nos 1, 3, 11 - 13 & 20) |
| 22     | 5050919X4P5  | 1   | HOSE, 3/8" FUEL, 4.5"<br>-(S/N: 2013952543 & Above)                |
| 23     | 5050919X56   | 1   | HOSE, 3/8" FUEL, 56"<br>-(S/N: 2013952543 & Above)                 |
| 24     | 5406039B     | 1   | MOUNT, WATER SEPERATOR - RED<br>-(S/N: 2013952543 & Above)         |
| 25     | 5025394      | 4   | NUT, 3/8-16 HEX NYLOCK FLANGE<br>-(S/N: 2013952543 & Above)        |
| 26     | 5025156      | 4   | WASHER, 3/8 SAE<br>-(S/N: 2013952543 & Above)                      |
| 27     | 5025013X6    | 4   | BOLT, 3/8-16 X 3/4" GD5 CZ<br>-(S/N: 2013952543 & Above)           |

**Fuel Tank & Mount Group**

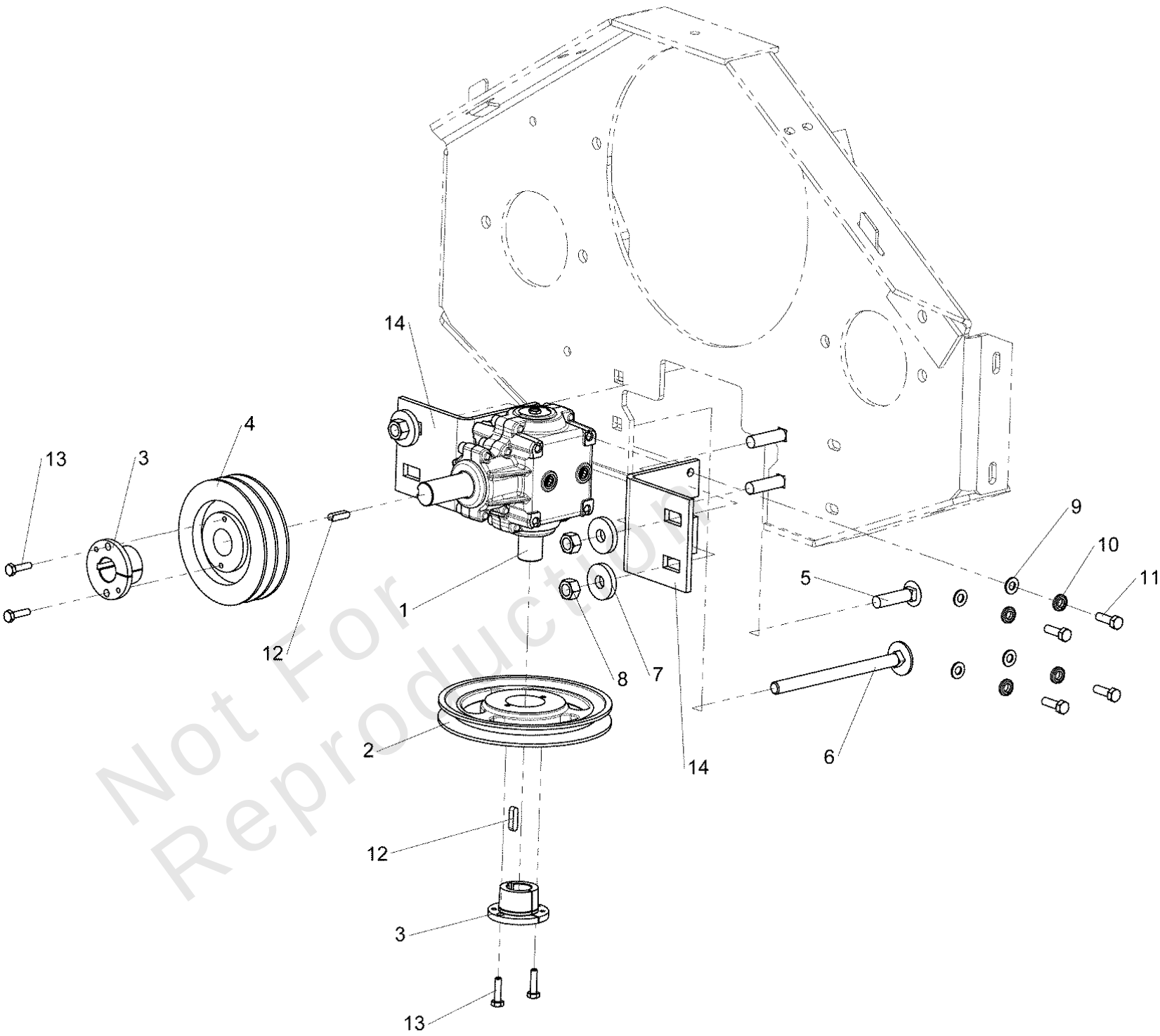
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



## Fuel Tank & Mount Group

| REF NO | PART NO    | QTY | DESCRIPTION                                                      |
|--------|------------|-----|------------------------------------------------------------------|
| 1      | 5025155    | 20  | WASHER, 5/16" SAE                                                |
| 2      | 5025011X8  | 8   | BOLT, 5/16-18 X 1" GD5                                           |
| 3      | 5025392    | 4   | NUT, 5/16-18 HEX NYLOCK FLANGE                                   |
| 4      | 5061406A   | 1   | COVER, CONTROL PANEL                                             |
| 5      | 5023395    | 1   | LATCH, CONTROL PANEL                                             |
| 6      | 5061310A   | 1   | PANEL, CONTROL - LH                                              |
| 7      | 5025299X4  | 8   | SCREW, ALLEN HEAD, 1/4-20X1/2                                    |
| 8      | 5100016    | 1   | POWER, OUTLET - 12 VOLT                                          |
| 9      | 5025170    | 12  | WASHER, 5/16 LOCK CZ                                             |
| 10     | 5025011X6  | 12  | BOLT, 5/16-18 X 3/4 GD5                                          |
| 11     | -----      | -   | CONTROL PANEL<br>-(See Instrument Panel Group)                   |
| 12     | 5022917X1  | 2   | GROMMET, FUEL GAUGE                                              |
| 13     | 5022917    | 2   | GAUGE, FUEL, 12                                                  |
| 14     | 5061298    | 1   | TANK, FUEL, DIESEL, RH                                           |
| 15     | 5407840B   | 2   | WELD, FUEL TANK MOUNT                                            |
| 16     | 5061299    | 1   | TANK, FUEL, DIESEL, LH                                           |
| 17     | 5104414    | 2   | FUEL CAP, 3.5", NON VENTED, DIESEL (GRN)                         |
| 18     | 5025203X10 | 1   | PIN, COTTER, 1/8 X 1-1/4<br>-(installed with head on the bottom) |
| 19     | 5025386    | 8   | SCREW, Allen Head, #10-24 x 3/8"                                 |
| 20     | 5061301B   | 2   | PLATE, BADGE, IS4500Z                                            |
| 21     | 5047993B   | 2   | GUARD, TANK VALVE<br>-(not shown)                                |
| 22     | 5022308    | 4   | BODY CLIP, 5/16-18-7GA MATERIAL                                  |



## ***Gearbox Group***

| REF NO | PART NO    | QTY | DESCRIPTION                  |
|--------|------------|-----|------------------------------|
| 1      | 5022378    | 1   | GEARBOX, RIGHT ANGLE, 1:1    |
| 2      | 5022794    | 1   | PULLEY, SPINDLE, BH72        |
| 3      | 5020819    | 2   | BUSHING, TAPERED HUB         |
| 4      | 5022908    | 1   | PULLEY, GEARBOX INPUT        |
| 5      | 5025324X16 | 3   | BOLT, 1/2-13 X 2", CARRIAGE  |
| 6      | 5025334    | 1   | BOLT, 1/2-13 X 7", CARRIAGE  |
| 7      | 5044913    | 3   | WASHER, FRAME RETAINING      |
| 8      | 5025056    | 4   | NUT, 1/2-13 HEX NYLON LOCK   |
| 9      | 5025155    | 8   | WASHER, 5/16" SAE            |
| 10     | 5025170    | 8   | WASHER, 5/16 LOCK CZ         |
| 11     | 5025011X8  | 8   | BOLT, 5/16-18 X 1" GD5 YZ    |
| 12     | 5100039    | 2   | KEY, .250 SQ. X 1, ROUND END |
| 13     | 5025010X8  | 4   | BOLT, 1/4-20 X 1" GD5 CZ     |
| 14     | 5046349B   | 2   | WELD, MOUNT, GEAR BOX - RED  |

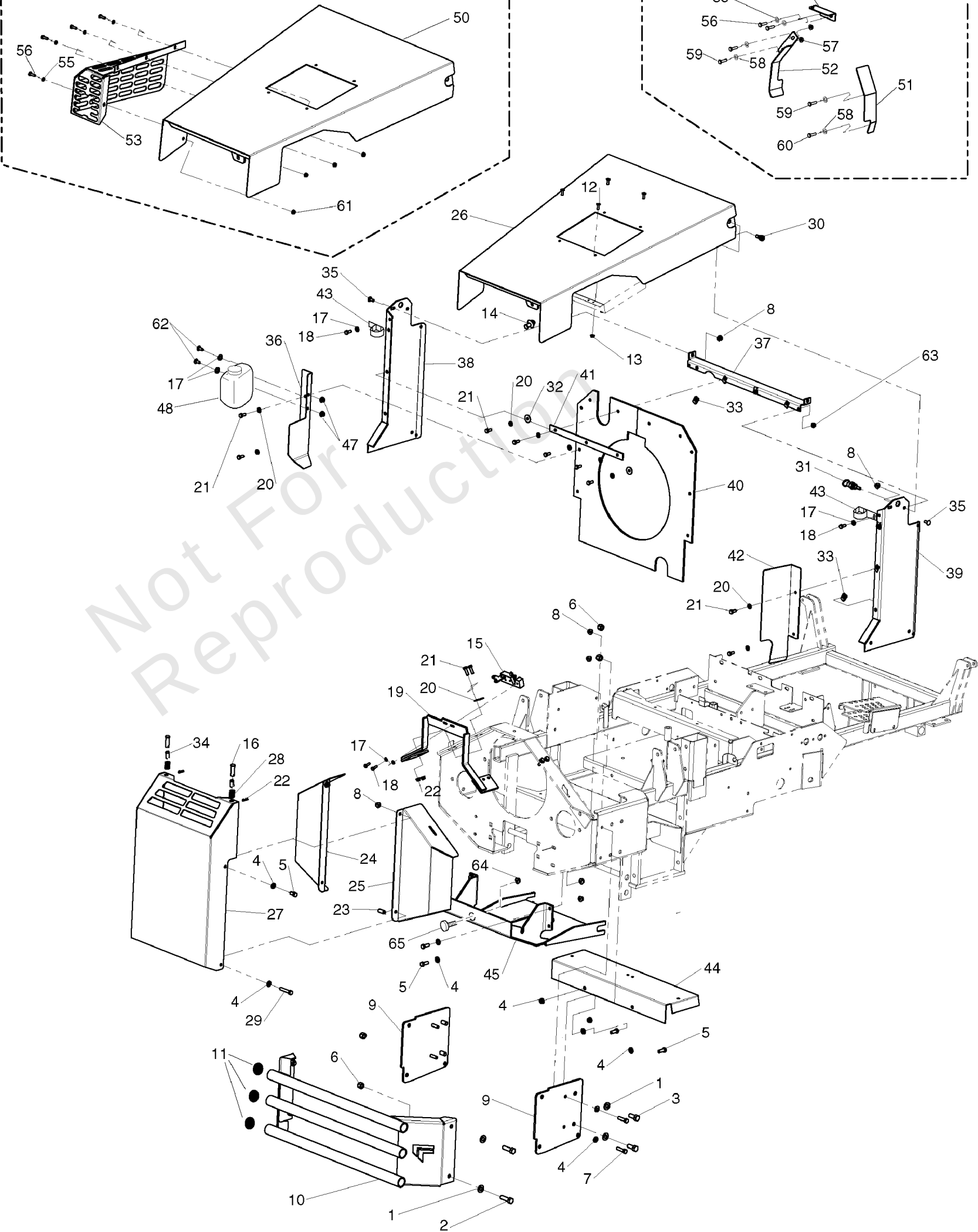
**Hood, Bumper & Shields Group (All Models - S/N: 2000592672 & Below)**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602

EXPORT MODELS - S/N: 2000592672 & Below;  
DOMESTIC MODELS - S/N: 2000566185 - 2000592673

EXPORT MODELS ONLY



**Hood, Bumper & Shields Group (All Models - S/N: 2000592672 & Below)**

| REF NO | PART NO    | QTY | DESCRIPTION                               |
|--------|------------|-----|-------------------------------------------|
| 1      | 5025158    | 8   | WASHER, 1/2 SAE                           |
| 2      | 5025018X14 | 4   | BOLT, 1/2-20 X 1-3/4" GD8 CZ              |
| 3      | 5025018X10 | 4   | BOLT, 1/2-20 X 1-1/4" GD8 CZ              |
| 4      | 5025156    | 12  | WASHER, 3/8 SAE                           |
| 5      | 5025013X8  | 4   | BOLT, 3/8-16 X 1" GD5 CZ                  |
| 6      | 5025098    | 8   | NUT, Hex, Nylon Lock, 1/2-20              |
| 7      | 5025013X10 | 6   | BOLT, 3/8-16 X 1-1/4" GD5 CZ              |
| 8      | 5025394    | 12  | NUT, 3/8-16 HEX NYLOCK FLANGE             |
| 9      | 5400625B   | 2   | PLATE, BUMPER MOUNT - RED                 |
| 10     | 5400255B   | 1   | WELD, BUMPER, SERVICE IS4500 - RED        |
| 11     | 5023484    | 6   | PLUG, PANEL, 1.25 - BLACK                 |
| 12     | 5025299X4  | 4   | SCREW, 1/4-20 X 1/2" ALLEN BH             |
| 13     | 5025391    | 4   | NUT, 1/4-20 NYLOCK FLANGE                 |
| 14     | 5100266    | 1   | BOLT/WASHER ASM HOOD LATCH                |
| 15     | 5100265    | 1   | HOOD LATCH, IS5000                        |
| 16     | 5022807    | 2   | BUMPER, RUBBER, 5/16-18                   |
| 17     | 5025154    | 6   | WASHER, 1/4 SAE                           |
| 18     | 5025010X8  | 4   | BOLT, 1/4-20 X 1" GD5 CZ                  |
| 19     | 5400937B   | 1   | WELD, MOUNT HOOD LATCH - RED              |
| 20     | 5025155    | 11  | WASHER, 5/16" SAE                         |
| 21     | 5025011X8  | 16  | BOLT, 5/16-18 X 1" GD5 YZ                 |
| 22     | 5025392    | 6   | NUT, 5/16-18 HEX NYLOCK FLANGE            |
| 23     | 5044959    | 2   | SPACER, .38 X .50 X 1.00                  |
| 24     | 5400345B   | 1   | WELD, BUMPER SIDE LH IS5000 - RED         |
| 25     | 5400343B   | 1   | WELD, BUMPER SIDE RH IS5000 - RED         |
| 26     | 5400340B   | 1   | WELD, IS5000 HOOD - RED                   |
| 27     | 5400341B   | 1   | WELD, CENTER BUMPER IS5000 - RED          |
| 28     | 5061833    | 2   | SPRING, HOOD LATCH                        |
| 29     | 5025013X14 | 2   | BOLT, 3/8-16 X 1-3/4" GD5 CZ              |
| 30     | 5025356    | 2   | BOLT, 3/8-16 X 3/8", 1/2" SHOULDER        |
| 31     | 5100010    | 1   | PIN, LATCH, SPR LOADED-PULL ACT           |
| 32     | 5044617    | 3   | WASHER, .34 X 1.25 X 10 GA                |
| 33     | 5022308    | 10  | BODY CLIP, 5/16-18-7GA MATERIAL           |
| 34     | 5047199    | 2   | SPACER, .38 X .50 X .75                   |
| 35     | 5025145X6  | 2   | BOLT, 5/16-18 X 3/4", CARRIAGE            |
| 36     | 5401089B   | 1   | GUARD, FAN, LH - RED                      |
| 37     | 5400813B   | 1   | SHROUD, SUPPORT                           |
| 38     | 5400765B   | 1   | WELD, SHROUD CHANNEL - LH - RED           |
| 39     | 5400786B   | 1   | WELD, SHROUD CHANNEL, RH - RED            |
| 40     | 5103796    | 1   | SHROUD, RUBBER, IS5100Z<br>-was 5100178   |
| 41     | 5061268B   | 1   | BAR, RUBBER SUPPORT SIDE                  |
| 42     | 5401090B   | 1   | GUARD, FAN, RH - RED                      |
| 43     | 5025430    | 2   | CLAMP, 5/16 DOUBLE, WIRE & TUBE           |
| 44     | 5401140B   | 1   | SHIELD, DEBRIS - RED                      |
| 45     | 5400926B   | 1   | WELD, SKID PLATE - RED                    |
| 46     | 5022922    | 1   | CLAMP, #4 HOSE, STAINLESS<br>-(Not Shown) |
| 47     | 5025126    | 2   | NUT, 1/4-20 HEX SERR. FLANGE              |
| 48     | 5022883X34 | 1   | EXPANSION TANK                            |
| 49     | 5022883X35 | 1   | CAP<br>-(Not Shown)                       |

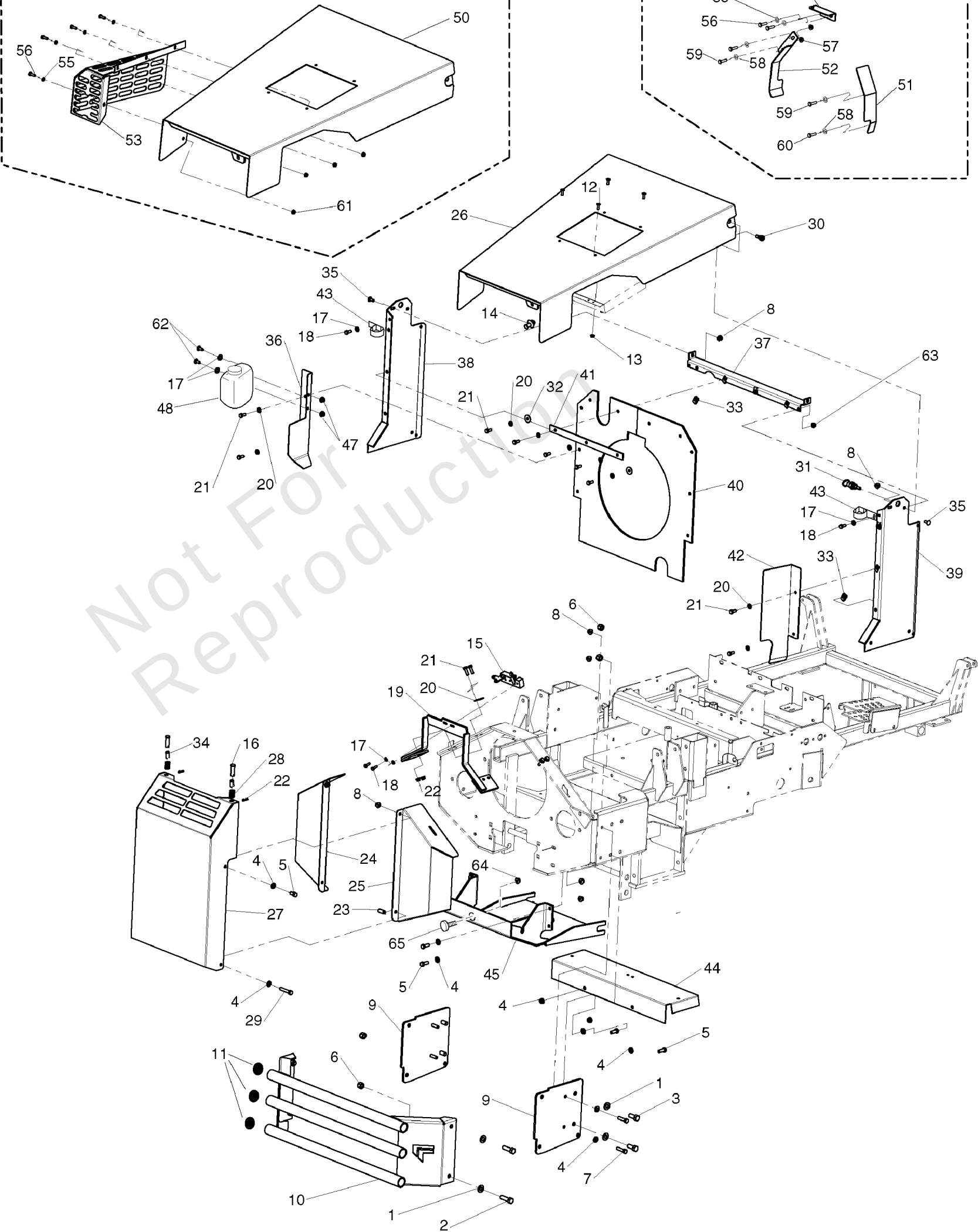
**Hood, Bumper & Shields Group (All Models - S/N: 2000592672 & Below)**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602

EXPORT MODELS - S/N: 2000592672 & Below;  
DOMESTIC MODELS - S/N: 2000566185 - 2000592673

EXPORT MODELS ONLY



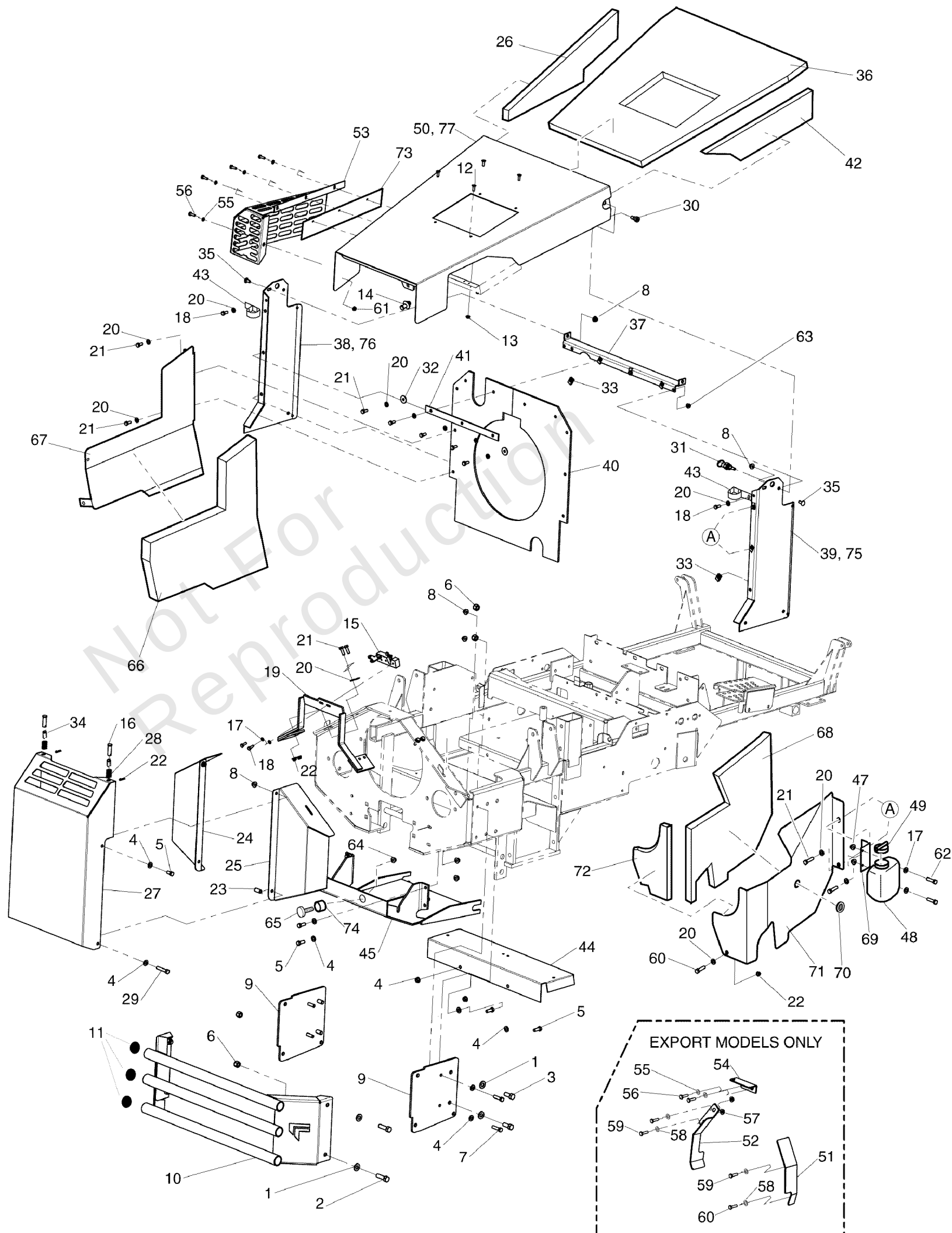
***Hood, Bumper & Shields Group (All Models - S/N: 2000592672 & Below)***

| REF NO | PART NO    | QTY | DESCRIPTION                                                                       |
|--------|------------|-----|-----------------------------------------------------------------------------------|
| 50     | 5401652B   | 1   | WELD, HOOD, IS5100ZCE - RED<br>-(Export Models; Domestic S/N: 2000566185 & ABOVE) |
| 51     | 5401416B   | 1   | GUARD, FLYWHEEL RH<br>-(Export Models)                                            |
| 52     | 5401418B   | 1   | GUARD, FLYWHEEL LH<br>-(Export Models)                                            |
| 53     | 5401547B   | 1   | WELD, MUFFLER GUARD<br>-(Export Models; Domestic S/N: 2000566185 & ABOVE)         |
| 54     | 5401417B   | 1   | GUARD, HOOD LATCH<br>-(Export Models)                                             |
| 55     | 5025154    | 6   | WASHER, 1/4 SAE<br>-(Export Models; Domestic S/N: 2000566185 & ABOVE)             |
| 56     | 5025010X6  | 6   | BOLT, 1/4-20 X 3/4"<br>-(Export Models; Domestic S/N: 2000566185 & ABOVE)         |
| 57     | 5025392    | 2   | NUT, 5/16-18 NYLOCK<br>-(Export Models; Domestic S/N: 2000566185 & ABOVE)         |
| 58     | 5025155    | 4   | WASHER, 5/16" SAE<br>-(Export Models; Domestic S/N: 2000566185 & ABOVE)           |
| 59     | 5025011X8  | 3   | BOLT, 5/16-18 X 1"<br>-(Export Models; Domestic S/N: 2000566185 & ABOVE)          |
| 60     | 5025011X10 | 1   | BOLT, 5/16-18 X 1-1/4"<br>-(Export Models; Domestic S/N: 2000566185 & ABOVE)      |
| 61     | 5025391    | 4   | NUT, 1/4-20 NYLOCK<br>-(Export Models; Domestic S/N: 2000566185 & ABOVE)          |
| 62     | 5025010X6  | 2   | BOLT, 1/4-20 X 3/4"                                                               |
| 63     | 5025126    | 2   | NUT, 1/4-20 HEX SERR. FLANGE                                                      |
| 64     | 5025057    | 2   | NUT, 5/16-18 LOCK<br>-(Export Models; Domestic S/N: 2000566185 & ABOVE)           |
| 65     | 5022807    | 2   | BUMPER, RUBBER, 5/16<br>-(Export Models; Domestic S/N: 2000566185 & ABOVE)        |

**Hood, Bumper & Shields Group (All Models - S/N: 2000592673 & Above)**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



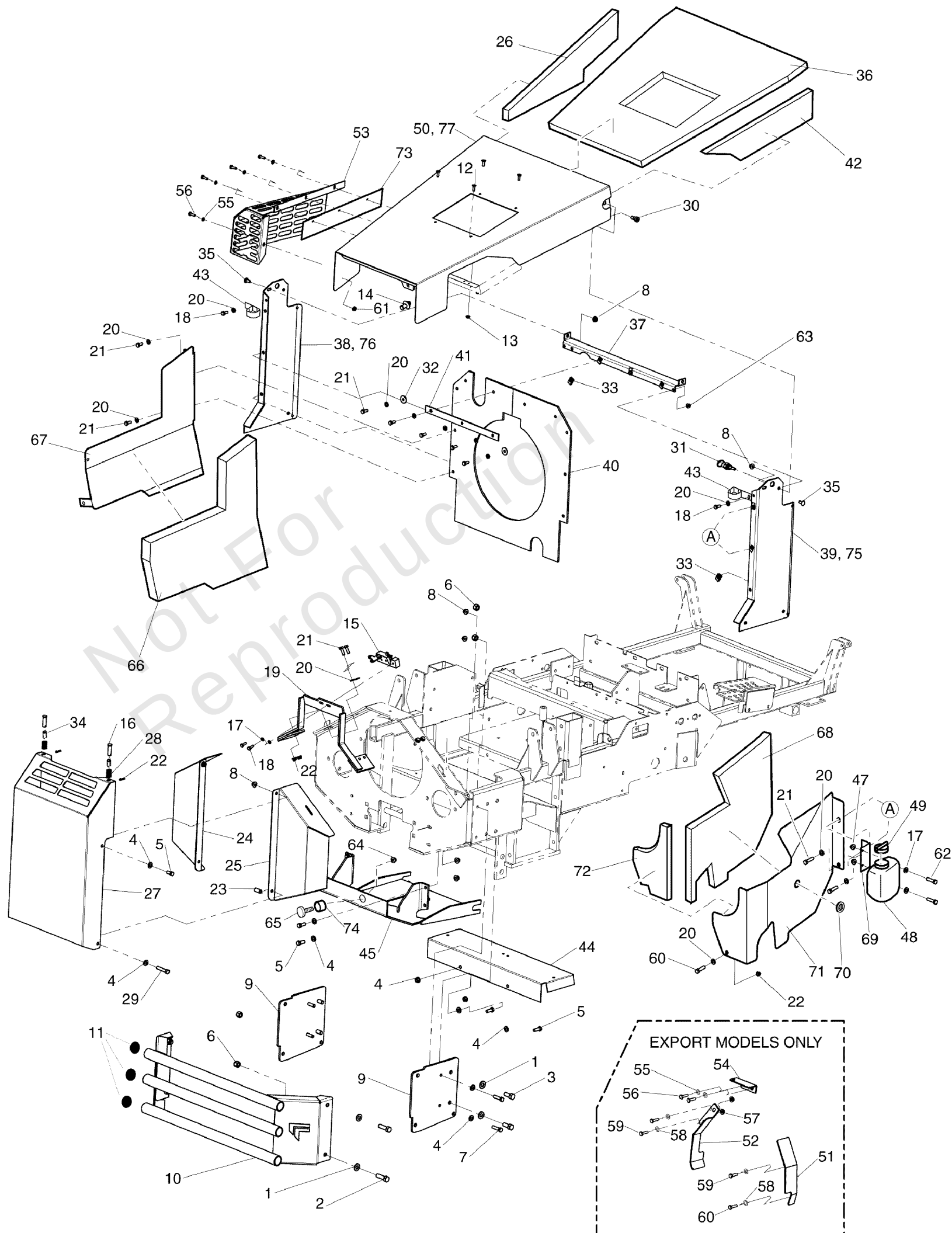
**Hood, Bumper & Shields Group (All Models - S/N: 2000592673 & Above)**

| REF NO | PART NO    | QTY | DESCRIPTION                                                   |
|--------|------------|-----|---------------------------------------------------------------|
| 1      | 5025158    | 8   | WASHER, 1/2 SAE                                               |
| 2      | 5025018X14 | 4   | BOLT, 1/2-20 X 1-3/4" GD8 CZ                                  |
| 3      | 5025018X10 | 4   | BOLT, 1/2-20 X 1-1/4" GD8 CZ                                  |
| 4      | 5025156    | 12  | WASHER, 3/8 SAE                                               |
| 5      | 5025013X8  | 4   | BOLT, 3/8-16 X 1" GD5 CZ                                      |
| 6      | 5025098    | 8   | NUT, Hex, Nylon Lock, 1/2-20                                  |
| 7      | 5025013X10 | 6   | BOLT, 3/8-16 X 1-1/4" GD5 CZ                                  |
| 8      | 5025394    | 12  | NUT, 3/8-16 HEX NYLOCK FLANGE                                 |
| 9      | 5400625B   | 2   | PLATE, BUMPER MOUNT - RED                                     |
| 10     | 5400255B   | 1   | WELD, BUMPER, SERVICE IS4500 - RED                            |
| 11     | 5023484    | 6   | PLUG, PANEL, 1.25 - BLACK                                     |
| 12     | 5025299X4  | 4   | SCREW, 1/4-20 X 1/2" ALLEN BH                                 |
| 13     | 5025391    | 4   | NUT, 1/4-20 NYLOCK FLANGE                                     |
| 14     | 5100266    | 1   | BOLT/WASHER ASM HOOD LATCH                                    |
| 15     | 5100265    | 1   | HOOD LATCH, IS5000                                            |
| 16     | 5022807    | 2   | BUMPER, RUBBER, 5/16-18                                       |
| 17     | 5025154    | 4   | WASHER, 1/4 SAE                                               |
| 18     | 5025010X6  | 2   | BOLT, 1/4-20 X 3/4", GD5                                      |
| 19     | 5400937B   | 1   | WELD, MOUNT HOOD LATCH - RED                                  |
| 20     | 5025155    | 11  | WASHER, 5/16" SAE                                             |
| 21     | 5025011X8  | 16  | BOLT, 5/16-18 X 1" GD5 YZ                                     |
| 22     | 5025392    | 6   | NUT, 5/16-18 HEX NYLOCK FLANGE                                |
| 23     | 5044959    | 2   | SPACER, .38 X .50 X 1.00                                      |
| 24     | 5400345B   | 1   | WELD, BUMPER SIDE LH IS5000 - RED                             |
| 25     | 5400343B   | 1   | WELD, BUMPER SIDE RH IS5000 - RED                             |
| 26     | 5402325    | 1   | FOAM BAFFLE, HOOD - LEFT                                      |
| 27     | 5400341B   | 1   | WELD, CENTER BUMPER IS5000 - RED                              |
| 28     | 5061833    | 2   | SPRING, HOOD LATCH                                            |
| 29     | 5025013X14 | 2   | BOLT, 3/8-16 X 1-3/4" GD5 CZ                                  |
| 30     | 5025356    | 2   | BOLT, 3/8-16 X 3/8", 1/2" SHOULDER                            |
| 31     | 5100010    | 1   | PIN, LATCH, SPR LOADED-PULL ACT                               |
| 32     | 5044617    | 1   | WASHER, .34 X 1.25 X 10 GA                                    |
| 33     | 5022308    | 10  | BODY CLIP, 5/16-18-7GA MATERIAL                               |
| 34     | 5047199    | 2   | SPACER, .38 X .50 X .75                                       |
| 35     | 5025145X6  | 2   | BOLT, 5/16-18 X 3/4", CARRIAGE                                |
| 36     | 5402324    | 1   | FOAM BAFFLE, HOOD - CENTER                                    |
| 37     | 5400813B   | 1   | SHROUD, SUPPORT                                               |
| 38     | 5400765B   | 1   | WELD, SHROUD CHANNEL - LH - RED<br>-(S/N: 2012653646 & BELOW) |
| 39     | 5400786B   | 1   | WELD, SHROUD CHANNEL, RH - RED<br>-(S/N: 2012653646 & BELOW)  |
| 40     | 5103796    | 1   | SHROUD, RUBBER, IS5100Z<br>-was 5100178                       |
| 41     | 5061268B   | 1   | BAR, RUBBER SUPPORT SIDE                                      |
| 42     | 5402326    | 1   | FOAM BAFFLE, HOOD - RIGHT                                     |
| 43     | 5025430    | 2   | CLAMP, 5/16 DOUBLE, WIRE & TUBE                               |
| 44     | 5401140B   | 1   | SHIELD, DEBRIS - RED                                          |
| 45     | 5400926B   | 1   | WELD, SKID PLATE - RED                                        |
| 46     | 5022922    | 1   | CLAMP, #4 HOSE, STAINLESS<br>-(Not Shown)                     |
| 47     | 5025126    | 2   | NUT, 1/4-20 HEX SERR. FLANGE                                  |
| 48     | 5022883X34 | 1   | EXPANSION TANK                                                |

**Hood, Bumper & Shields Group (All Models - S/N: 2000592673 & Above)**

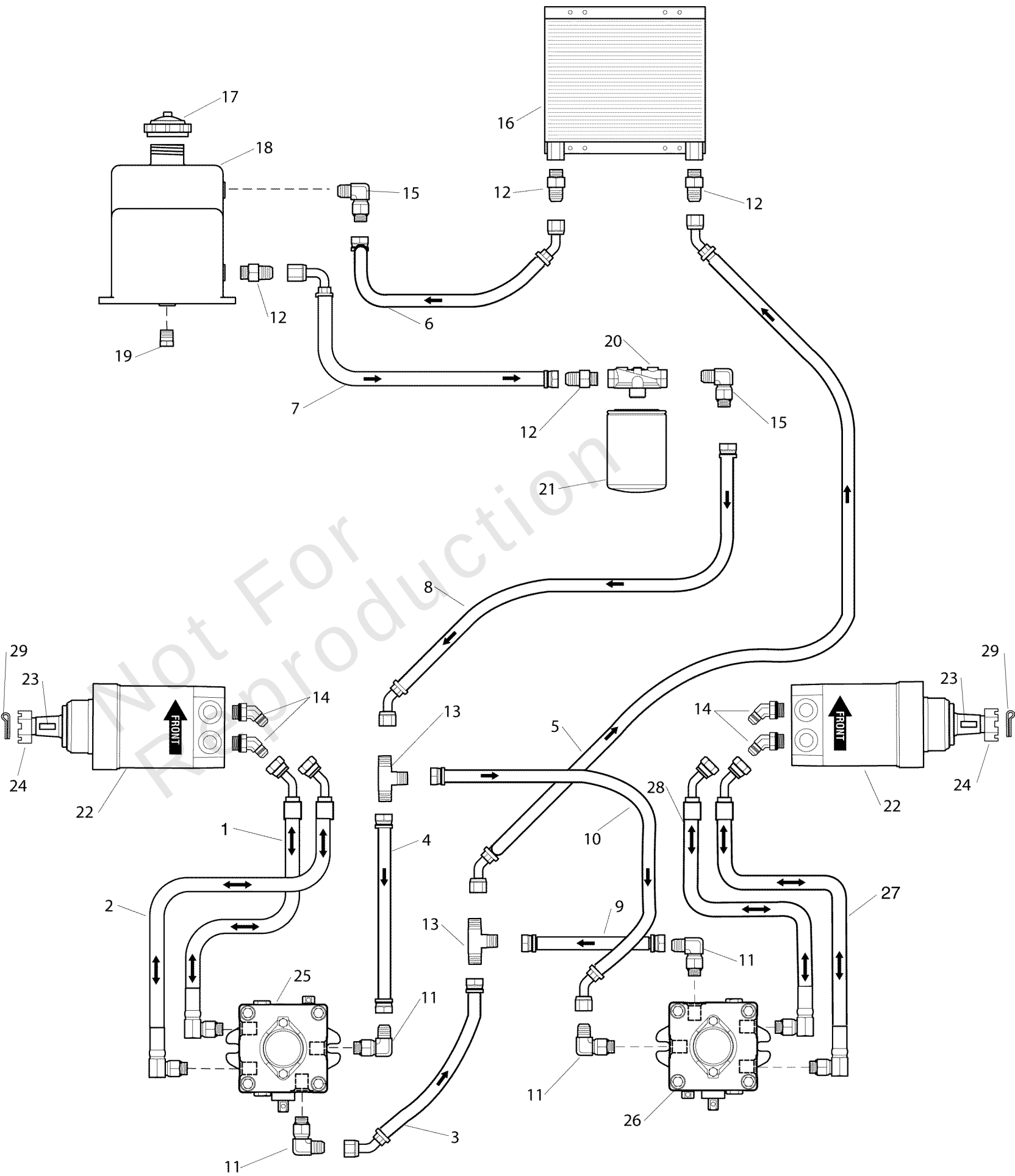
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



**Hood, Bumper & Shields Group (All Models - S/N: 2000592673 & Above)**

| REF NO | PART NO    | QTY | DESCRIPTION                                                    |
|--------|------------|-----|----------------------------------------------------------------|
| 49     | 5022883X35 | 1   | CAP                                                            |
| 50     | 5401652B   | 1   | WELD, HOOD, IS5100ZCE - RED<br>-(S/N: 2012653646 & BELOW)      |
| 51     | 5401416B   | 1   | GUARD, FLYWHEEL RH<br>-(EXPORT MODELS S/N: 2000786068 & BELOW) |
| 52     | 5401418B   | 1   | GUARD, FLYWHEEL LH<br>-(EXPORT MODELS S/N: 2000786068 & BELOW) |
| 53     | 5401547B   | 1   | WELD, MUFFLER GUARD                                            |
| 54     | 5401417B   | 1   | GUARD, HOOD LATCH<br>-(EXPORT MODELS)                          |
| 55     | 5025154    | 6   | WASHER, 1/4 SAE                                                |
| 56     | 5025010X6  | 6   | BOLT, 1/4-20 X 3/4" GD5 YZ                                     |
| 57     | 5025392    | 2   | NUT, 5/16-18 NYLOCK<br>-(S/N: 2000786068 & BELOW)              |
| 58     | 5025155    | 4   | WASHER, 5/16" SAE<br>-(S/N: 2000786068 & BELOW)                |
| 59     | 5025011X8  | 3   | BOLT, 5/16-18 X 1"<br>-(S/N: 2000786068 & BELOW)               |
| 60     | 5025011X10 | 1   | BOLT, 5/16-18 X 1-1/4"<br>-(S/N: 2000786068 & BELOW)           |
| 61     | 5025391    | 4   | NUT, 1/4-20 HEX NYLOCK FLANGE                                  |
| 62     | 5025010X6  | 2   | BOLT, 1/4-20 X 3/4"                                            |
| 63     | 5025126    | 2   | NUT, 1/4-20 HEX SERR. FLANGE                                   |
| 64     | 5025057    | 2   | NUT, 5/16-18 HEX NYLON LOCK                                    |
| 65     | 5022807    | 2   | BUMPER, RUBBER, 5/16-18                                        |
| 66     | 5402315    | 1   | FOAM, SOUND BAFFLE, LH                                         |
| 67     | 5402313B   | 1   | WELD, SOUND SHIELD, LH - RED                                   |
| 68     | 5402316    | 1   | FOAM, SOUND BAFFLE, RH                                         |
| 69     | 5402310B   | 1   | BRACKET, COOLANT RESERVOIR - RED                               |
| 70     | 5023236    | 1   | GROMMET, 3/4"                                                  |
| 71     | 5402314B   | 1   | PLATE, SOUND SHIELD, RH - RED                                  |
| 72     | 5402317    | 1   | FOAM, SOUND BAFFLE                                             |
| 73     | 5402323B   | 1   | PLATE, HOOD, SOUND SHIELD - RED                                |
| 74     | 5044609    | 2   | SPACER, .52 X 1.00 X .38                                       |
| 75     | 5403867B   | 1   | WELD, SHROUD CHANNEL - RH<br>-(S/N: 2012653647 & ABOVE)        |
| 76     | 5403866B   | 1   | WELD, SHROUD CHANNEL - LH<br>-(S/N: 2012653647 & ABOVE)        |
| 77     | 5403870B   | 1   | WELD, HOOD, IS5100Z<br>-(S/N: 2012653647 & ABOVE)              |



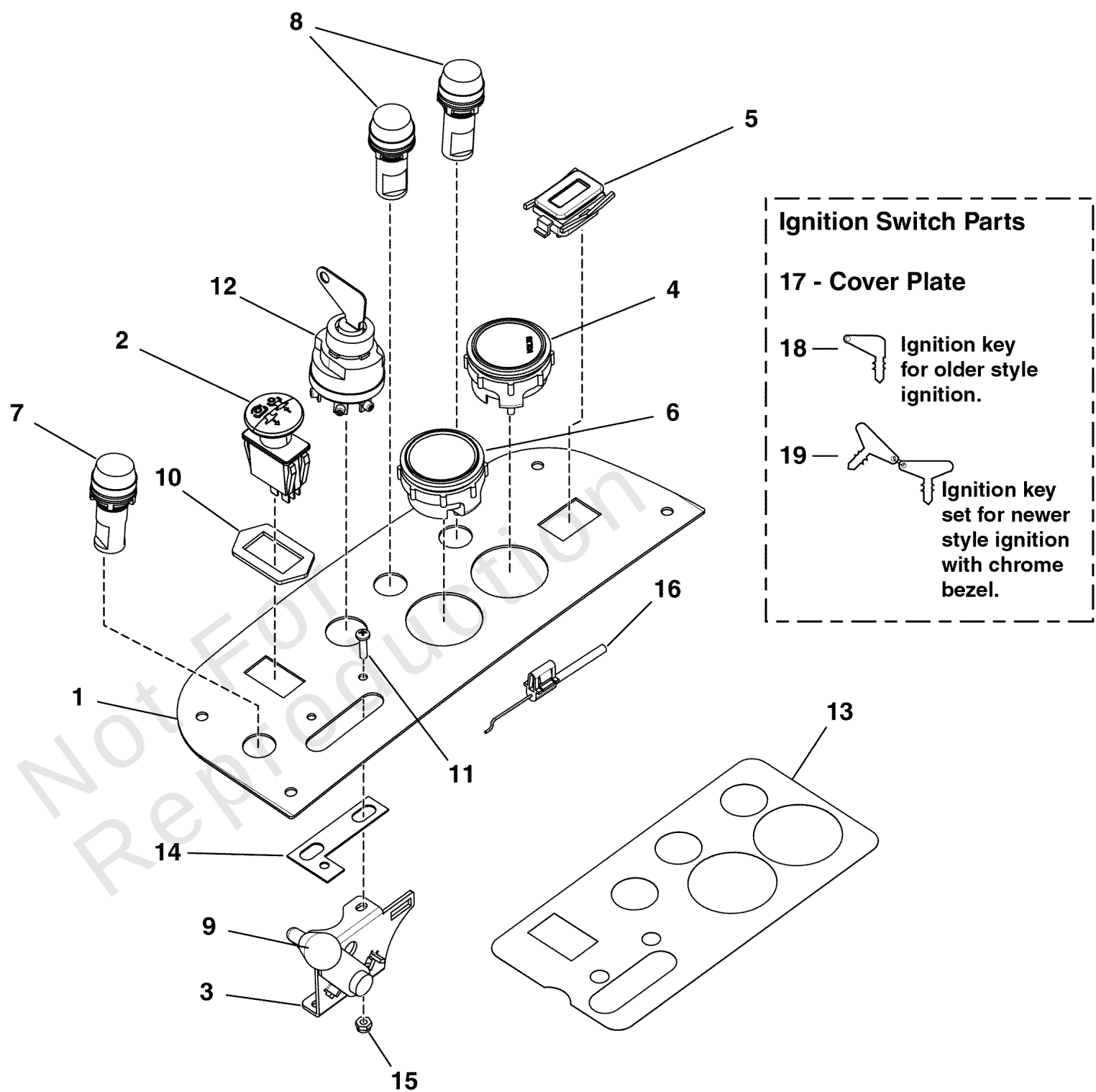
## Hydraulic Group

| REF NO | PART NO    | QTY | DESCRIPTION                                     |
|--------|------------|-----|-------------------------------------------------|
| 1      | -----      | 1   | REPLACE WITH HOSE # 5412801 & FITTING # 5022599 |
| 2      | -----      | 1   | REPLACE WITH HOSE # 5412800 & FITTING # 5022599 |
| 3      | 5401075    | 1   | HOSE ASSEMBLY (9) LP, ST & 45 ENDS              |
| 4      | 5401076    | 1   | HOSE ASSEMBLY (16.5) LP, ST & ST ENDS           |
| 5      | 5401077    | 1   | HOSE ASSEMBLY (64) LP, 45 & 45 ENDS             |
| 6      | 5401078    | 1   | HOSE ASSEMBLY (64) LP, ST & 45 ENDS             |
| 7      | 5401079    | 1   | HOSE ASSEMBLY (21.5) LP, ST & 90 ENDS           |
| 8      | 5401080    | 1   | HOSE ASSEMBLY (24.5) LP, ST & 45 ENDS           |
| 9      | 5401103    | 1   | HOSE ASSEMBLY (15) LP, ST & ST ENDS             |
| 10     | 5401104    | 1   | HOSE ASSEMBLY (7) LP, 4 ST & 45 ENDS            |
| 11     | 5022599    | 4   | FITTING, #8 JIC - #8 O-RING, 90 DEG.            |
| 12     | 5022601    | 4   | FITTING, #8 JIC - 1/2" NPT, STRAIGHT            |
| 13     | 5022604    | 2   | FITTING T JIC #8                                |
| 14     | 5022709    | 4   | FITTING, #8 JIC - #10 O-RING, 45 DEG.           |
| 15     | 5100311    | 2   | HYDRALIC FITTING, MALE ELBOW                    |
| 16     | 5022377    | 1   | OIL COOLER 1.5" X 8.5" X 11                     |
| 17     | 5022437    | 1   | CAP, 2-1/2" VENTED                              |
| 18     | 5045872    | 1   | HYDRAULIC RESERVIOR                             |
| 19     | 5020986    | 1   | PLUG, 1/2" NPT, SQUARE HEAD                     |
| 20     | 5021356    | 1   | FILTER HEAD                                     |
| 21     | 5021357X1  | 1   | FILTER, HYDRAULIC, SERVICE PART (PKG)           |
| 22     | 5022368    | 2   | WHEEL MOTOR, MB 25 SERIES                       |
| 23     | 5022042X2  | 2   | KEY                                             |
| 24     | 5022042X3  | 2   | NUT, CASTLE, 1-20                               |
| 25     | 5023402    | 1   | PUMP, HYDROSTATIC - PW-1ACC                     |
| 26     | 5023401    | 1   | PUMP, HYDROSTATIC - PW-1DCC                     |
| 27     | -----      | 1   | REPLACE WITH HOSE # 5412801 & FITTING # 5022599 |
| 28     | -----      | 1   | REPLACE WITH HOSE # 5412800 & FITTING # 5022599 |
| 29     | 5025203X16 | 2   | PIN, COTTER, 1/8" X 2"                          |

**Instrument & Control Panel Group**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



**Note:** Hour meter installed so as to be read from outside of machine.

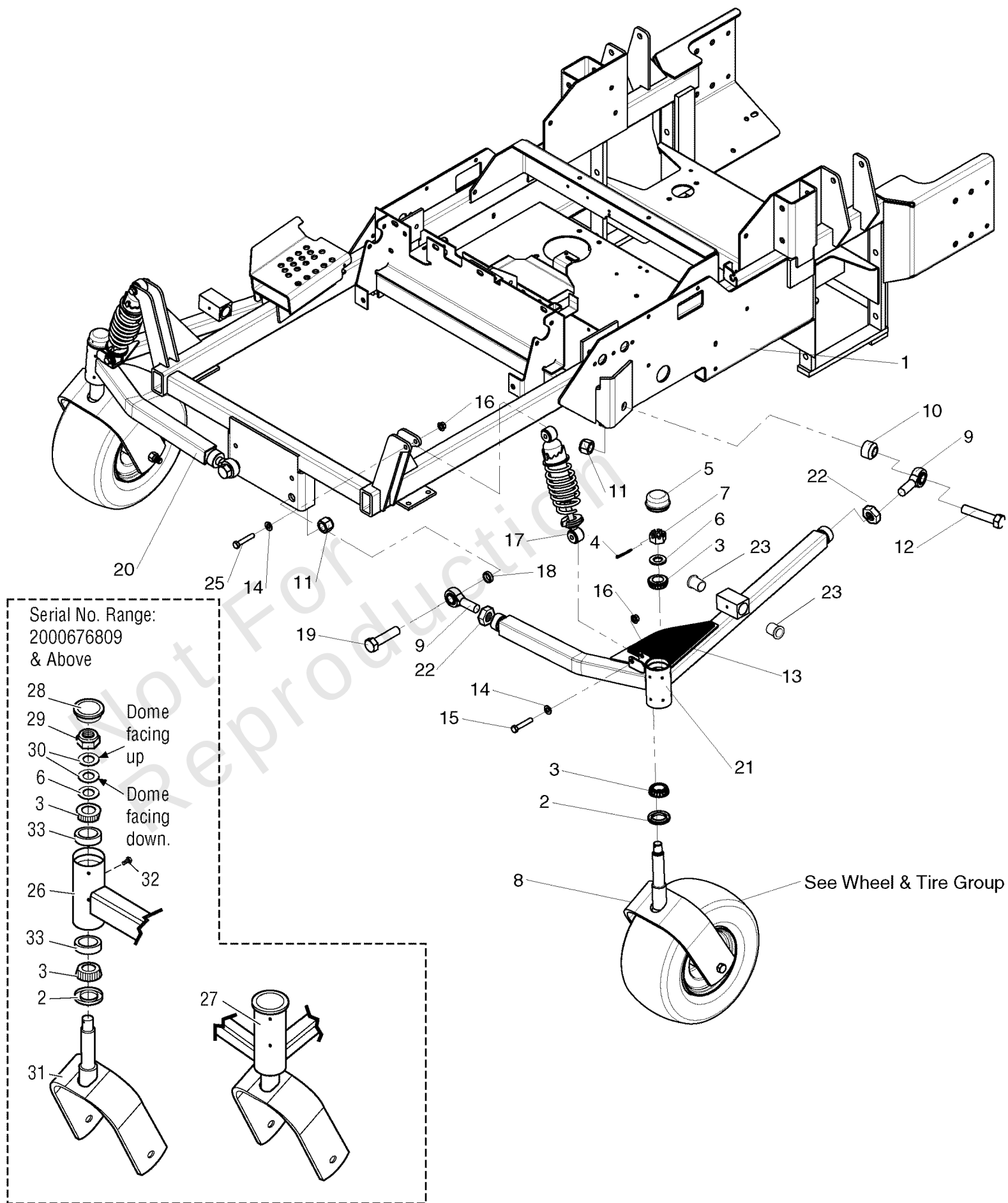
### ***Instrument & Control Panel Group***

| REF NO | PART NO   | QTY | DESCRIPTION                                                                                                                                                                        |
|--------|-----------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | 5401006A  | 1   | CONTROL PANEL, IS5000Z RH - BLK                                                                                                                                                    |
| 2      | 5022180   | 1   | SWITCH, BLADE ENGAGEMENT                                                                                                                                                           |
| 3      | 5046360   | 1   | HANDLE, THROTTLE CONTROL<br>-(with knob)                                                                                                                                           |
| 4      | 5022387   | 1   | GUAGE, VOLTS                                                                                                                                                                       |
| 5      | 5102417   | 1   | HOUR METER                                                                                                                                                                         |
| 6      | 5023393   | 1   | GAUGE, WATER TEMPERATURE                                                                                                                                                           |
| 7      | 5023451   | 1   | LIGHT, GLOW PLUG, 22MM AMBER                                                                                                                                                       |
| 8      | 5023452   | 2   | LIGHT, WARNING, 22MM RED                                                                                                                                                           |
| 9      | 5046360X1 | 1   | THROTTLE CONTROL HANDLE/KNOB                                                                                                                                                       |
| 10     | 5022222   | 1   | RING, SWITCH RETAINER                                                                                                                                                              |
| 11     | 5025179X6 | 2   | SCREW, #10-24 X 3/4"                                                                                                                                                               |
| 12     | 84009655  | 1   | SWITCH, KEY                                                                                                                                                                        |
| 13     | 5100315   | 1   | DECAL, CONTROL PANEL                                                                                                                                                               |
| 14     | 5048475A  | 1   | PLATE, THROTTLE STOP<br>-(export model only)                                                                                                                                       |
| 15     | 5025271   | 2   | NUT, #10-24 HEX NYLON LOCK                                                                                                                                                         |
| 16     | 5046392   | 1   | CABLE, THROTTLE CONTROL, 47.5"                                                                                                                                                     |
| 17     | 5022883X3 | 1   | COVER PLATE<br>-(not illustrated)                                                                                                                                                  |
| 18     | 5022883X2 | 1   | KEY, IGNITION<br>-(not illustrated)                                                                                                                                                |
| 19     | 84009663  | 1   | NO LONGER AVAILABLE FROM VENDOR - IGNITION KEY, SET OF 2<br>-(NOT SHOWN) (Ignition Key sets are no longer available. For replacement you must order ignition switch p/n 84009655.) |

**Main Frame & Front Suspension Group**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



## Main Frame & Front Suspension Group

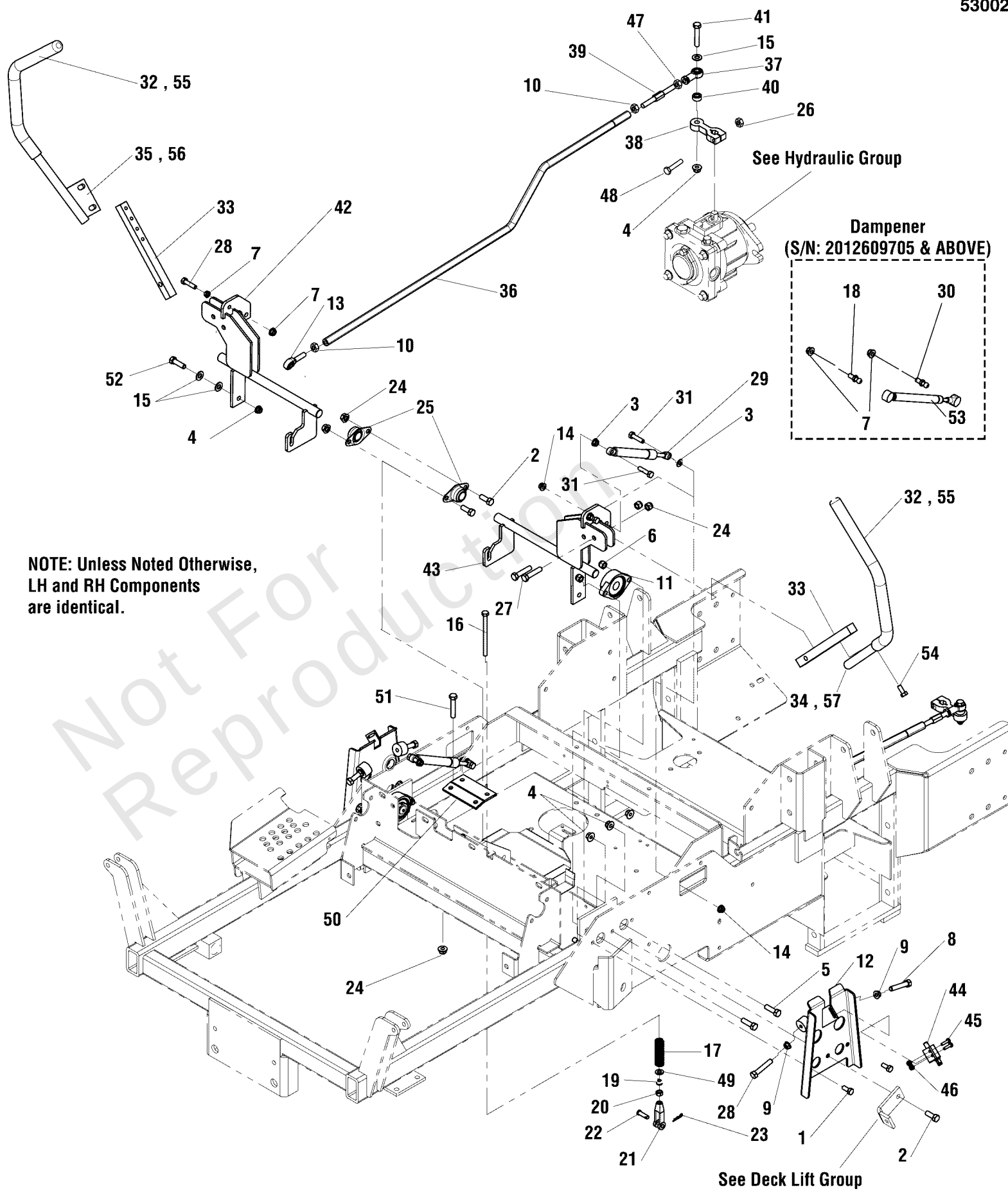
| REF NO | PART NO    | QTY | DESCRIPTION                                                          |
|--------|------------|-----|----------------------------------------------------------------------|
| 1      | 5400242B   | 1   | WELD, MAIN FRAME IS5000 - RED<br>-(old)                              |
| 1      | 5407418B   | 1   | WELD, MAIN FRAME IS5100 - RED<br>-(new)                              |
| 2      | 5021072    | 2   | SEAL, GREASE                                                         |
| 3      | 5020884    | 4   | BEARING, TAPERED ROLLER, 1"                                          |
| 4      | 5025202X12 | 2   | 3/16 X 1-1/2 COTTER PIN                                              |
| 5      | 5021073    | 2   | CAP, DUST                                                            |
| 6      | 5025160    | 2   | WASHER, 3/4 SAE                                                      |
| 7      | 5025104    | 2   | NUT, 3/4-16 HEX SLOTTED                                              |
| 8      | 5401115B   | 2   | WELD, CASTER YOKE - RED                                              |
| 9      | 5022039    | 4   | BALL JOINT, 3/4-16, MALE                                             |
| 10     | 5046093    | 2   | SPACER, .75 X 1.50 X 1.00                                            |
| 11     | 5025284    | 4   | NUT, 3/4-16 HEX NYLON LOCK                                           |
| 12     | 5025265X28 | 2   | BOLT, 3/4-16 X 3-1/2" YZ GD5                                         |
| 13     | 5101003    | 1   | SAFETY WALK, IS5000Z A-ARM STEP                                      |
| 14     | 5025156    | 4   | WASHER, 3/8 SAE                                                      |
| 15     | 5025013X16 | 2   | BOLT, 3/8-16 X 2, GD5, CZ                                            |
| 16     | 5025394    | 4   | NUT, 3/8-16 HEX NYLOCK FLANGE                                        |
| 17     | 5022842    | 2   | COIL-OVER SHOCK ASSEMBLY                                             |
| 18     | 5046093    | 2   | SPACER, .75 X 1.50 X 1.00                                            |
| 19     | 5025265X28 | 2   | BOLT, 3/4-16 X 3-1/2" YZ GD5                                         |
| 20     | 5300037    | 1   | ASSM, SUSPENSION ARM RH - RED                                        |
| 21     | 5300036    | 1   | ASSM, SUSPENSION ARM LH - RED                                        |
| 22     | 5025093    | 4   | NUT, 3/4-16 HEX JAM                                                  |
| 23     | 5023343    | 4   | BUSHING, 1.00 X 1.13 X 1.38, PLASTIC                                 |
| 24     | 5020095    | 2   | GREASE FITTING, 1/4-28 STRAIGHT<br>-(not shown)                      |
| 25     | 5025013X18 | 2   | BOLT, 3/8-16 X 2-1/4" GD5 CZ                                         |
| 26     | 84008463   | 1   | WELD, SUSPENSION ARM - RH - RED<br>-(Serial No.: 2000676809 & Above) |
| 27     | 5402216B   | 1   | WELD, SUSPENSION ARM - LH - RED<br>-(Serial No.: 2000676809 & Above) |
| 28     | 5109845    | 2   | CAP, GREASE, LOW PROFILE<br>-(Serial No.: 2000676809 & Above)        |
| 29     | 5025448    | 2   | NUT, 3/4-16, HEX JAM NYLON LOCK<br>-(Serial No.: 2000676809 & Above) |
| 30     | 5025449    | 4   | BELLEVILLE WASHER, 1.500 X .755<br>-(Serial No.: 2000676809 & Above) |
| 31     | 5402206B   | 2   | WELD, CASTER YOKE - RED<br>-(Serial No.: 2000676809 & Above)         |
| 32     | 5025457    | 2   | BOLT, 1/4-28 X 1/2, GD5 YZ<br>-(Serial No.: 2000676809 & Above)      |
| 33     | 5020883    | 4   | BEARING CUP<br>-(Serial No.: 2000676809 & Above)                     |

***Motion Control Group***

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602

**5300208**



## Motion Control Group

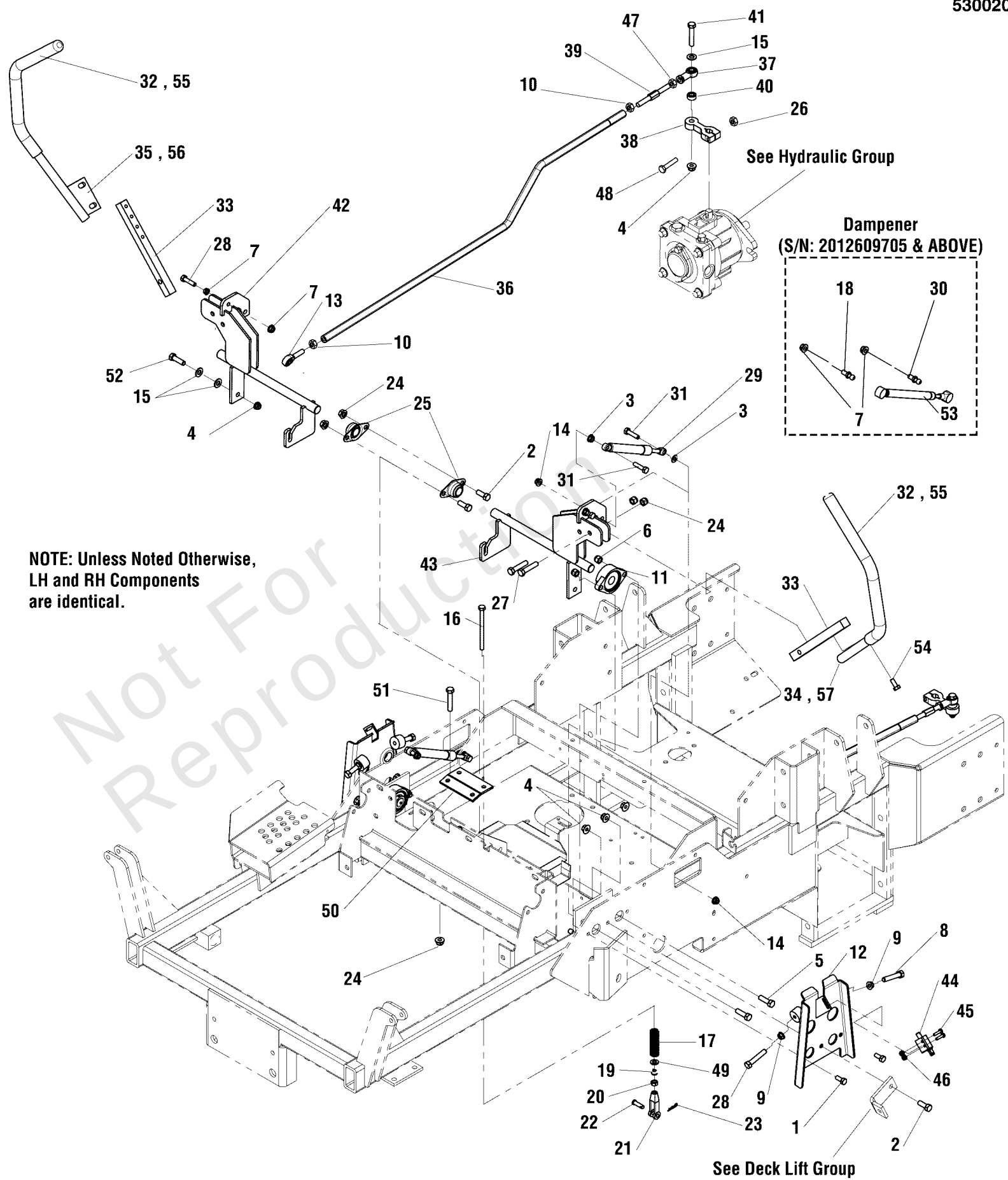
| REF NO | PART NO    | QTY | DESCRIPTION                                                                                     |
|--------|------------|-----|-------------------------------------------------------------------------------------------------|
| 1      | 5025011X6  | 6   | BOLT, 5/16-18 X 3/4 GD5                                                                         |
| 2      | 5025011X8  | 2   | BOLT, 5/16-18 X 1" GD5 YZ                                                                       |
| 3      | 5025355    | 4   | NUT, M8-1.25 SERR. FLANGE, CZ<br>-(S/N: 2012609704 & BELOW)                                     |
| 4      | 5025392    | 10  | NUT, 5/16-18 HEX NYLOCK FLANGE                                                                  |
| 5      | 5025327    | 4   | BOLT, 3/8-16 X 1-1/4 SHCS                                                                       |
| 6      | 5025096    | 4   | NUT, 3/8-16 HEX NYLON LOCK                                                                      |
| 7      | 5025139    | 4   | NUT, 5/16-18 HEX SERRATED FLANGE (LARGE)                                                        |
| 8      | 5025055X14 | 2   | BOLT, 5/16-18 X 1-3/4 TFL, GD5 YZ                                                               |
| 9      | 5025127    | 8   | NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)                                                        |
| 10     | 5025317    | 4   | NUT, 3/8-24 HEX, LH                                                                             |
| 11     | 5021499    | 2   | BEARING, FLANGE                                                                                 |
| 12     | 5048531B   | 2   | WELD, PLATE, NEUTRAL CONTROL                                                                    |
| 13     | 5021124    | 2   | BALL JOINT, 3/8-24 MALE                                                                         |
| 14     | 5025354    | 4   | NUT, M8-1.25 NYLON LOCK, CZ                                                                     |
| 15     | 5025156    | 6   | WASHER, 3/8 SAE                                                                                 |
| 16     | 5047137    | 2   | BOLT, 5/16-24 X 4.25" GD5 YZ                                                                    |
| 17     | 5022645    | 2   | SPRING, REVERSE RETURN                                                                          |
| 18     | 5101307    | 2   | BALL STUD 10MM 5/16-18 X 3/4"<br>-(S/N: 2012609705 & ABOVE)                                     |
| 19     | 5025045    | 2   | NUT, 5/16-24 HEX NYLON LOCK                                                                     |
| 20     | 5025033    | 2   | NUT, 5/16-24 HEX                                                                                |
| 21     | 5023323    | 2   | CLEVIS, 5/16-24, STEEL, CLEAR ZINC                                                              |
| 22     | 5025213X8  | 2   | PIN, CLEVIS, 5/16" X 1                                                                          |
| 23     | 5025203X10 | 2   | PIN, COTTER, 1/8 X 1-1/4                                                                        |
| 24     | 5025394    | 8   | NUT, 3/8-16 HEX NYLOCK FLANGE                                                                   |
| 25     | 5021098    | 2   | BEARING, BRONZE FLANGE, 3/4                                                                     |
| 26     | 5025391    | 2   | NUT, 1/4-20 HEX NYLOCK FLANGE                                                                   |
| 27     | 5025013X14 | 4   | BOLT, 3/8-16 X 1-3/4" GD5 CZ                                                                    |
| 28     | 5025011X10 | 4   | BOLT, 5/16-18 X 1-1/4" GD5 YZ                                                                   |
| 29     | 5022978    | 2   | DAMPENER<br>-(S/N: 2012609704 & BELOW)                                                          |
| 30     | 5100941    | 2   | BALL STUD 10MM 5/16-18 X 1/2"<br>-(S/N: 2012609705 & ABOVE)                                     |
| 31     | 5025335    | 4   | BOLT, M8-1.25 X 35MM, GD8.8<br>-(S/N: 2012609704 & BELOW)                                       |
| 32     | 5022068    | 2   | GRIP, FOAM, 3/4" ID, 16" LONG<br>-(S/N: 2017501539 & Below)                                     |
| 33     | 5103106A   | 2   | MOUNT, CONTROL ARM - BLK<br>-(S/N: 2015470928 & Above)(10.95" Total Length, 3 Adjustment Holes) |
| 33     | 5047004A   | 2   | MOUNT, CONTROL ARM - BLK<br>-(S/N: 2015470927 & Below)(9.0" Total Length, 4 Adjustment Holes)   |
| 34     | 5400911B   | 1   | WELD, HANDLE MOTION CONTROL, LH - RED<br>-(S/N: 2017501539 & Below)                             |
| 35     | 5400912B   | 1   | WELD, HANDLE MOTION CONTROL, RH - RED<br>-(S/N: 2017501539 & Below)                             |
| 36     | 5400712B   | 2   | CONTROL ROD, IS5000Z                                                                            |
| 37     | 5022392    | 2   | ROD END, 3/8-24 LH FEMALE                                                                       |
| 38     | 5045863    | 2   | ARM, PUMP CONTROL (21 SERIES)                                                                   |
| 39     | 5046534    | 2   | LINK, ADJUSTABLE, SHORT                                                                         |
| 40     | 5044933    | 2   | SPACER, .39 X .75 X .38                                                                         |
| 41     | 5025013X16 | 2   | BOLT, 3/8-16 X 2, GD5, CZ                                                                       |
| 42     | 5400686B   | 1   | WELD, CONTROL SHAFT - RH - RED                                                                  |
| 43     | 5400685B   | 1   | WELD, CONTROL SHAFT - LH - RED                                                                  |

# Motion Control Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602

5300208



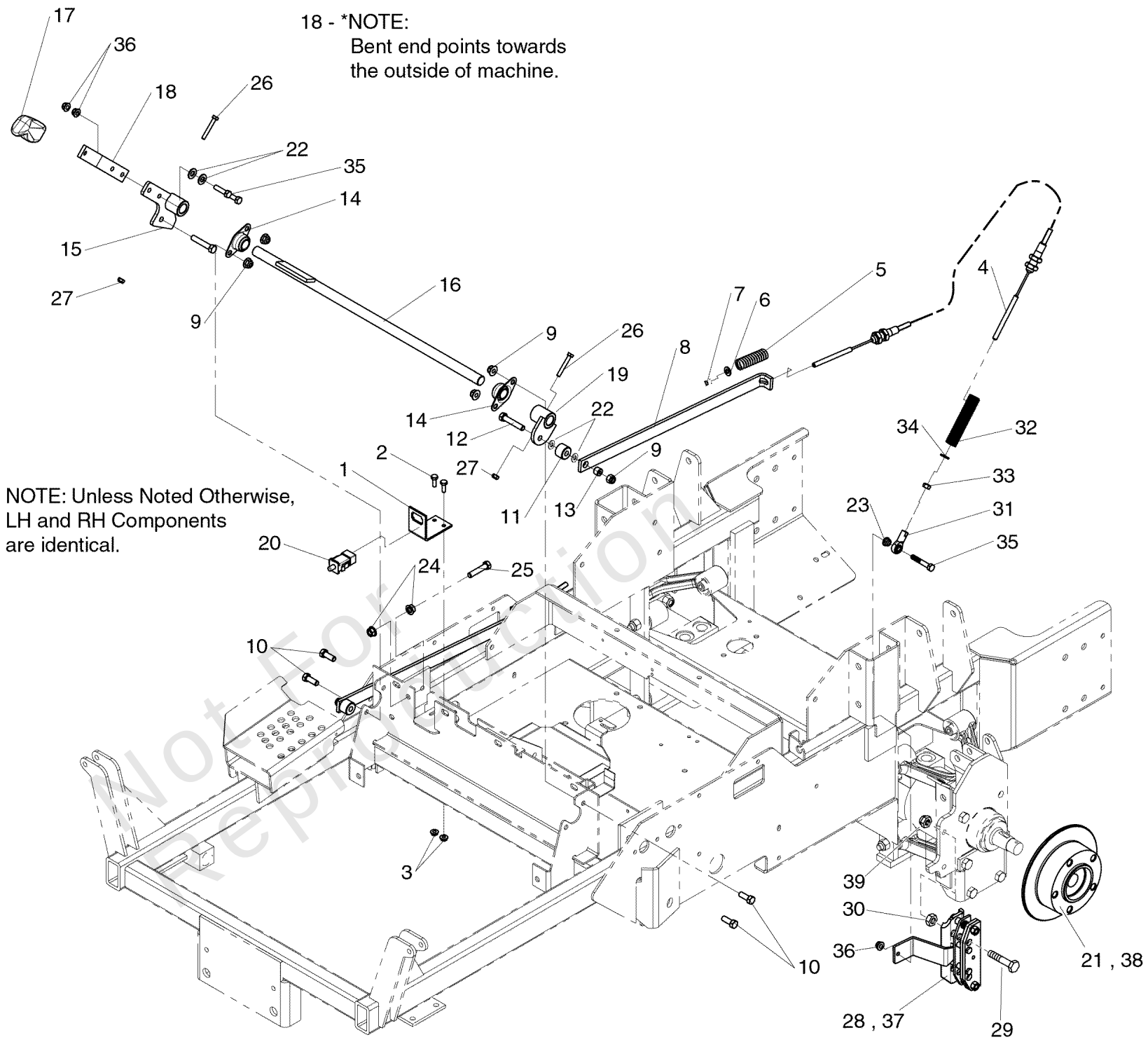
## ***Motion Control Group***

| REF NO | PART NO    | QTY | DESCRIPTION                                                                   |
|--------|------------|-----|-------------------------------------------------------------------------------|
| 44     | 5021451    | 2   | SWITCH, PLUNGER, N.O.                                                         |
| 45     | 5025179X6  | 4   | SCREW, #10-24 X 3/4" ROUND SLOTTED                                            |
| 46     | 5025271    | 4   | NUT, #10-24 HEX NYLON LOCK                                                    |
| 47     | 5025035SM  | 2   | NUT (3/8-24 HEX)                                                              |
| 48     | 5025010X14 | 2   | BOLT, 1/4-20 X 1-3/4" GD5 YZ                                                  |
| 49     | 5025337    | 2   | WASHER, 5/16" USS                                                             |
| 50     | 5047401B   | 1   | PLATE, RETURN TO NEUTRAL - RED                                                |
| 51     | 5025013X8  | 2   | BOLT, 3/8-16 X 1" GD5 CZ                                                      |
| 52     | 5025013X12 | 2   | BOLT, 3/8-16 X 1-1/2" GD5 CZ                                                  |
| 53     | 5100940    | 2   | DAMPENER, CONTROL<br>-(S/N: 2012609705 & ABOVE)                               |
| 54     | 80003531   | 2   | SCREW, 5/16-18x0.750, GR5, WHIZ-LOCK, ZC                                      |
| 55     | 5104722    | 2   | GRIP, FOAM, 1" ID, 16" LONG<br>-(S/N: 2017501540 & Above)                     |
| 56     | 5415052A   | 1   | WELD, HANDLE MOTION CNTRL, 15.1, 1.0 - RH - BLK<br>-(S/N: 2017501540 & Above) |
| 57     | 5415051A   | 1   | WELD, HANDLE MOTION CNTRL, 15.1, 1.0 - LH - BLK<br>-(S/N: 2017501540 & Above) |

**Parking Brake Group**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



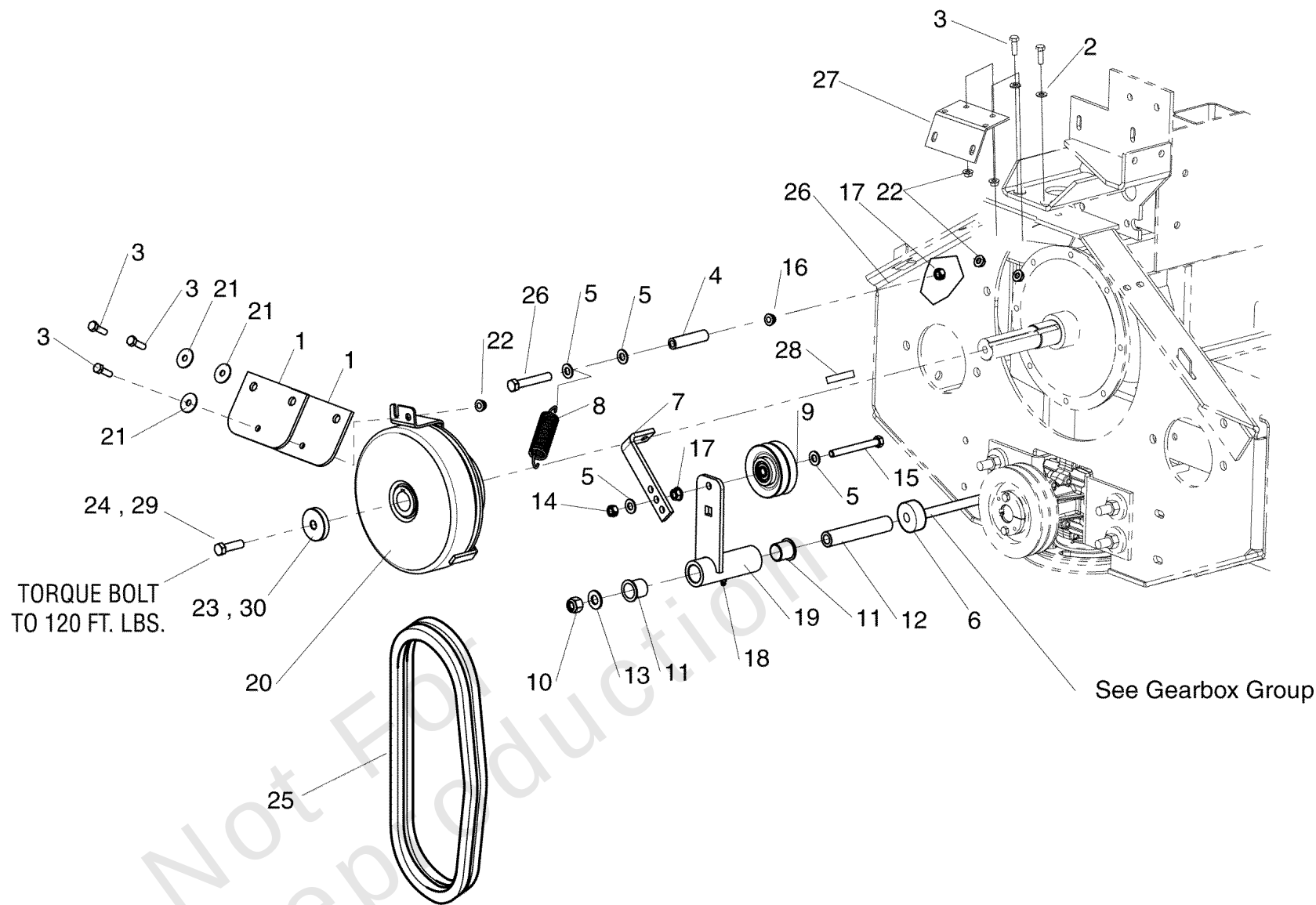
## Parking Brake Group

| REF NO | PART NO    | QTY | DESCRIPTION                                                                    |
|--------|------------|-----|--------------------------------------------------------------------------------|
| 1      | 5400726B   | 1   | BRACKET, SWITCH MOUNT - RED                                                    |
| 2      | 5025010X6  | 2   | BOLT, 1/4-20 X 3/4" GD5 YZ                                                     |
| 3      | 5025126    | 2   | NUT, 1/4-20 HEX SERR. FLANGE                                                   |
| 4      | 5023324    | 2   | CABLE, PARKING BRAKE                                                           |
| 5      | 5022361    | 2   | SPRING, BRAKE                                                                  |
| 6      | 5025155    | 4   | WASHER, 5/16" SAE                                                              |
| 7      | 5025045    | 2   | NUT, 5/16-24 HEX NYLON LOCK                                                    |
| 8      | 5400804B   | 2   | BRAKE, CABLE LINK - RED                                                        |
| 9      | 5025394    | 6   | NUT, 3/8-16 HEX NYLOCK FLANGE                                                  |
| 10     | 5025013X6  | 4   | BOLT, 3/8-16 X 3/4" GD5 CZ                                                     |
| 11     | 5043815    | 2   | SPACER, .39 X 1.00 X .75                                                       |
| 12     | 5025013X16 | 2   | BOLT, 3/8-16 X 2, GD5, CZ                                                      |
| 13     | 5041930    | 2   | SPACER, .38 X .50 X .27                                                        |
| 14     | 5021098    | 2   | BEARING, BRONZE FLANGE, 3/4                                                    |
| 15     | 5400723B   | 1   | WELD, PIVOT HANDLE MOUNT - RED                                                 |
| 16     | 5400739B   | 1   | WELD, SHAFT BRAKE LEVER - RED                                                  |
| 17     | 5100171    | 1   | GRIP, BLACK FLEXIBLE                                                           |
| 18     | 5045619B   | 1   | HANDLE, BRAKE LEVER                                                            |
| 19     | 5045618A   | 1   | PIVOT, LINKAGE MOUNT WELDMENT - BLK                                            |
| 20     | 7022886    | 1   | SWITCH, DP NO/NC SNAP-IN                                                       |
| 21     | 5100775    | 2   | WHEEL HUB, COMPACT CALIPER (86720)<br>-(S/N: 2000786068 & BELOW)               |
| 22     | 5025156    | 10  | WASHER, 3/8 SAE                                                                |
| 23     | 5025127    | 2   | NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)                                       |
| 24     | 5025128    | 2   | NUT, 3/8-16 HEX SERRATED FLANGE                                                |
| 25     | 5025058X16 | 1   | BOLT, 3/8-16 X 2" GD5 TFL CZ                                                   |
| 26     | 5025010X12 | 2   | BOLT, 1/4-20 X 1-1/2", GD5                                                     |
| 27     | 5025287    | 2   | NUT, 1/4-20 HEX SIDE LOCK                                                      |
| 28     | 5023299    | 2   | CALIPER, MECHANICAL<br>-(S/N: 2000786068 & BELOW)                              |
| 29     | 5025400    | 4   | BOLT, 3/8-16 x 2-3/4, 1/2 SHOULDER<br>-(For units with plates with 3/8" holes) |
| 29     | 5025017X32 | 4   | BOLT, 1/2-13 X 4" GD5 CZ<br>-(For units with plates with 1/2" holes)           |
| 30     | 5025301    | 4   | NUT, 1/2-13 HEX JAM<br>-(For units with plates with 1/2" holes)                |
| 31     | 5104493    | 2   | BALL JOINT 5/16-24 RH FEMALE BRONZE RACE                                       |
| 32     | 5023320    | 2   | SPRING, COMPRESSION                                                            |
| 33     | 5025033    | 2   | NUT, 5/16-24 HEX                                                               |
| 34     | 5025337    | 2   | WASHER, 5/16" USS                                                              |
| 35     | 5025011X8  | 4   | BOLT, 5/16-18 X 1" GD5 YZ                                                      |
| 36     | 5025392    | 4   | NUT, 5/16-18 HEX NYLOCK FLANGE                                                 |
| 37     | 5100774    | 2   | COMPACT CALIPER, AUSCO (86978)<br>-(S/N: 2000786069 & ABOVE)                   |
| 38     | 5100775    | 2   | WHEEL HUB, COMPACT CALIPER (86720)<br>-(S/N: 2000786069 & ABOVE)               |
| 39     | 5025100    | 4   | NUT, Hex, Side Lock, 3/8-16<br>-(For units with plates with 3/8" holes)        |
| 39     | 5025054    | 4   | NUT, 1/2-13 HEX NYLON LOCK<br>-(For units with plates with 1/2" holes)         |

**PTO Clutch & Anchor Group**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



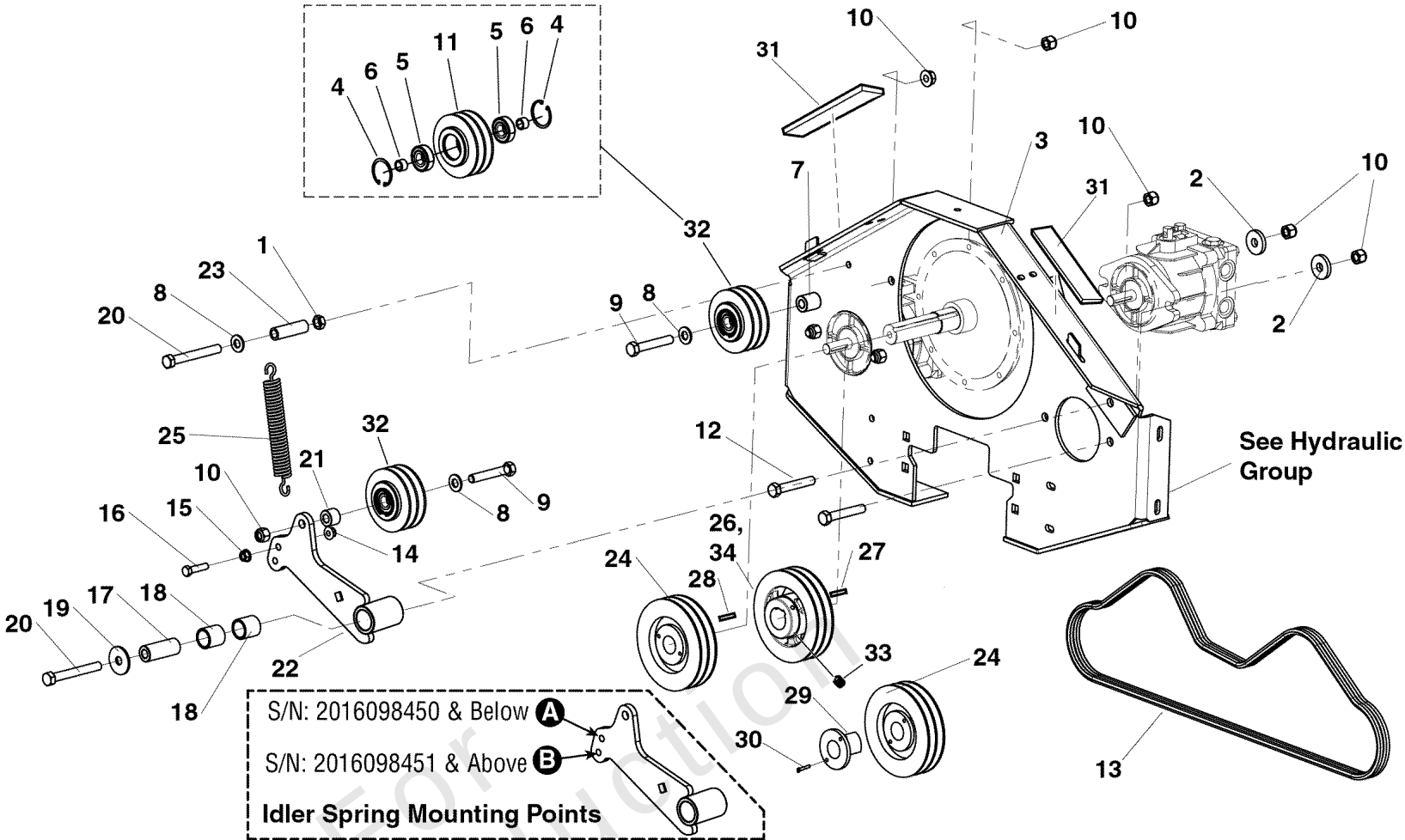
## PTO Clutch & Anchor Group

| REF NO | PART NO     | QTY | DESCRIPTION                                                    |
|--------|-------------|-----|----------------------------------------------------------------|
| 1      | 5043636     | 2   | CLUTCH ANCHOR PAD                                              |
| 2      | 5025155     | 2   | WASHER, 5/16" SAE                                              |
| 3      | 5025011X8   | 5   | BOLT, 5/16-18 X 1" GD5                                         |
| 4      | 5050860X2P5 | 1   | HOSE, 3/8" PUSH-LOCK, 2.5"                                     |
| 5      | 5025156     | 4   | WASHER, 3/8 SAE                                                |
| 6      | 5100314     | 1   | SPACER, .51 X 1.75 X.63                                        |
| 7      | 5401085B    | 1   | MOUNT, IDLER SPRING                                            |
| 8      | 1608395     | 1   | SPRING-EXTN 1.040ODX 04.000LG .105WIRE D                       |
| 9      | 5022797     | 1   | PULLEY, IDLER DOUBLE-A                                         |
| 10     | 5025056     | 1   | NUT, 1/2-13 HEX NYLON LOCK                                     |
| 11     | 5022250     | 2   | BUSHING, FLANGE, 7/8" X 1" L                                   |
| 12     | 5045305     | 1   | SLEEVE, A-ARM PIVOT - LONG                                     |
| 13     | 5025158     | 1   | WASHER, 1/2 SAE                                                |
| 14     | 5025100     | 1   | NUT, 3/8-16 SIDE LOCK                                          |
| 15     | 5025013X24  | 1   | BOLT, 3/8-16 X 3" GD5 CZ                                       |
| 16     | 5025128     | 1   | NUT, 3/8-16 HEX LG. SERR FLG                                   |
| 17     | 5025394     | 2   | NUT, 3/8-16 NYLOCK FLANGE                                      |
| 18     | 5025447     | 1   | GREASE FITTING, 1/4-28, 90 DEGREE                              |
| 19     | 5046565B    | 1   | WELD, CLUTCH BELT IDLER                                        |
| 20     | 5100040     | 1   | CLUTCH, WARNER, 300 ft lbs - 1.25"                             |
| 21     | 5044617     | 3   | WASHER, .34 X 1.25 X10 GA                                      |
| 22     | 5025392     | 5   | NUT, 5/16-18 HEX NYLOCK FLANGE                                 |
| 23     | 5101524     | 1   | SPACER, .515 X 1.875 X .375<br>-(S/N: 2013262992 & Above)      |
| 24     | 5102854     | 1   | BOLT, CRANKSHAFT, 1/2-20 X 1-3/4<br>-(S/N: 2013262992 & Above) |
| 25     | 5022575     | 1   | BELT, HA X 36.6, SET                                           |
| 26     | 5025013X32  | 1   | BOLT, 3/8-16 X 4" GD5 CZ                                       |
| 27     | 5047563     | 1   | ANCHOR, CLUTCH                                                 |
| 28     | 5050407X2   | 1   | KEY, 1/4" SQ. X 3"                                             |
| 29     | 5045473     | 1   | BOLT, CRANKSHAFT, 7/16 X 1-1/2"<br>-(S/N: 2013262991 & Below)  |
| 30     | 5045475     | 1   | SPACER, .45 X 1.88 X .38<br>-(S/N: 2013262991 & Below)         |

Pump Mount & Drive Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



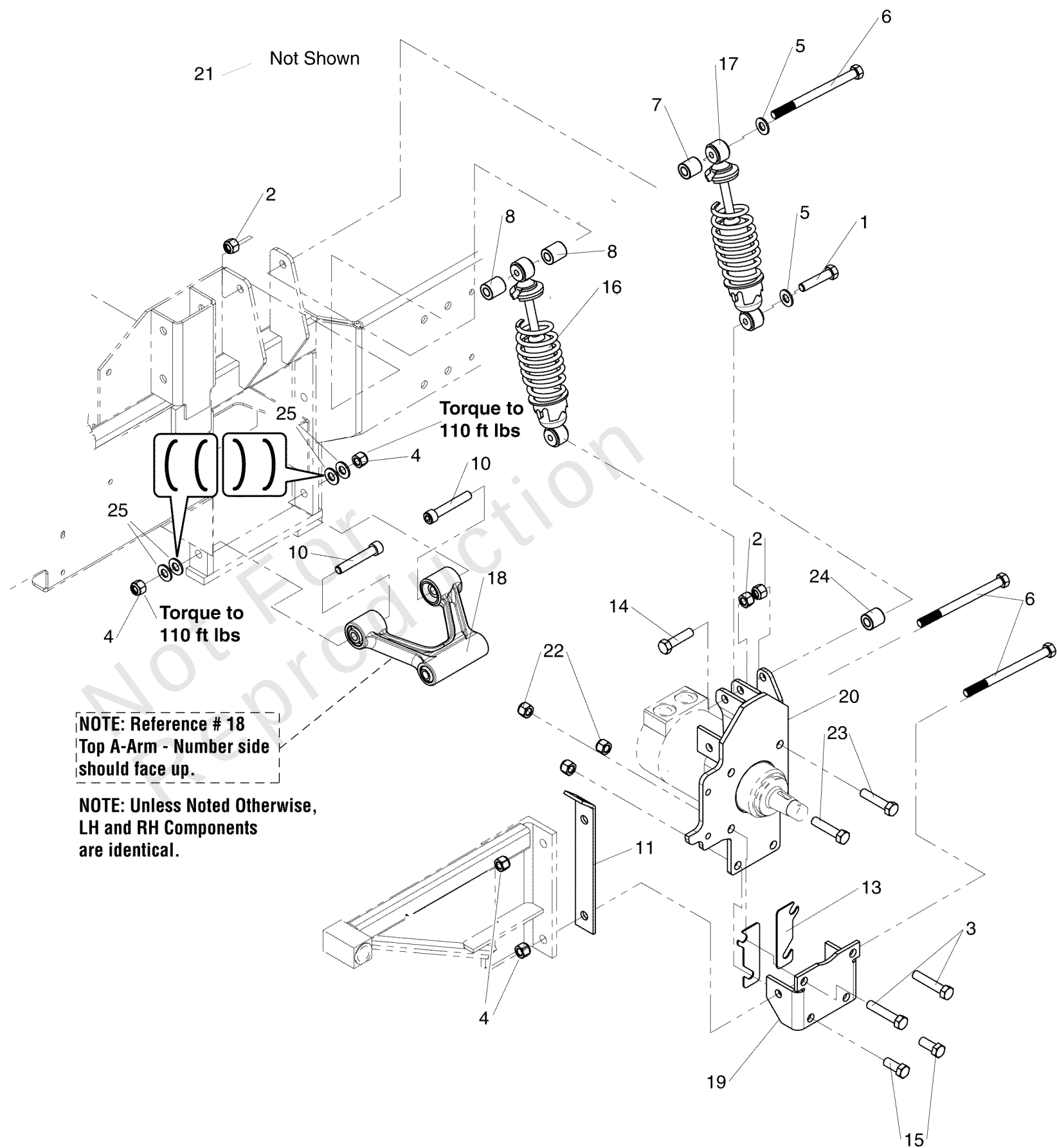
## Pump Mount & Drive Group

| REF NO | PART NO    | QTY | DESCRIPTION                                                            |
|--------|------------|-----|------------------------------------------------------------------------|
| 1      | 5025301    | 1   | NUT, 1/2-13 HEX JAM                                                    |
| 2      | 5044913    | 4   | WASHER, FRAME RETAINING                                                |
| 3      | 5400239B   | 1   | WELD, PUMP PLATE IS5000 - RED                                          |
| 4      | 5020865    | 4   | SNAP RING, INTERNAL                                                    |
| 5      | 1705897    | 4   | BEARING, BALL 11/16X1-9/16X15/32                                       |
| 6      | 5020870    | 4   | INSERT, BEARING                                                        |
| 7      | 5061781    | 1   | SPACER, .52 X 1.00 X 1.15                                              |
| 8      | 5025158    | 5   | WASHER, 1/2 SAE                                                        |
| 9      | 5025017X26 | 2   | BOLT, 1/2-13 X 3-1/4, HEX HD, GD5, CZ (SV)                             |
| 10     | 5025098    | 1   | NUT, Hex, Nylon Lock, 1/2-20                                           |
| 11     | 5023390    | 2   | PULLEY, A SECTION, 4" IDLER                                            |
| 12     | 5025018X32 | 4   | BOLT, 1/2-20 X 4" GD5 YZ                                               |
| 13     | 5023388    | 1   | BELT, 66.5" # 7-8672, SET                                              |
| 14     | 5025394    | 1   | NUT, 3/8-16 HEX NYLOCK FLANGE                                          |
| 15     | 5025128    | 1   | NUT, 3/8-16 HEX SERRATED FLANGE                                        |
| 16     | 5025013X16 | 1   | BOLT, 3/8-16 X 2, GD5, CZ                                              |
| 17     | 5400022    | 1   | SPACER, .52 X .99 X 2.55, SS                                           |
| 18     | 5022157    | 2   | BUSHING, BRASS, 1.25X1X1.25                                            |
| 19     | 5103282    | 1   | WASHER, .52 X 1.75 X .14, CZ                                           |
| 20     | 5025017X36 | 1   | BOLT, 1/2-13 X 4-1/2" GD5 YZ                                           |
| 21     | 5045178    | 1   | SPACER, .52 X 1.00 X .75                                               |
| 22     | 5061368B   | 1   | WELD, IDLER ARM                                                        |
| 23     | 5050857X3  | 1   | HOSE, 1/2" PUSH-ON 3"                                                  |
| 24     | 5022382    | 2   | PULLEY, Pump Drive                                                     |
| 25     | 5022847    | 1   | SPRING, EXTENSION, SWIVEL END                                          |
| 26     | 5100854    | 1   | PULLEY, PUMP DRIVE<br>-(S/N: 2016098450 & Below)                       |
| 27     | 5025591    | 1   | KEY, 5/16" SQ RD ENDS, 1.46 LG<br>-Was 5050404X4                       |
| 28     | 5023254    | 2   | KEY, 5MM SQ. W/ RADIUS                                                 |
| 29     | 5022383    | 2   | BUSHING, 17MM, HQ                                                      |
| 30     | 5025010X8  | 4   | BOLT, 1/4-20 X 1" GD5 CZ                                               |
| 31     | 5021877    | 2   | PAD, RUBBER                                                            |
| 32     | 5600200    | 3   | ASSM, PULLEY IDLER<br>-(Includes Ref Nos 4-6 & 11)                     |
| 33     | 5025531    | 2   | SET SCREW, 5/16-18 X 3/8, KNUURL, W/PATCH                              |
| 34     | 5103693    | 1   | PULLEY, 5.75" OD X 1.375" BORE, DOUBLE A<br>-(S/N: 2016098451 & Above) |

Rear Suspension Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



## Rear Suspension Group

| REF NO | PART NO    | QTY | DESCRIPTION                                                               |
|--------|------------|-----|---------------------------------------------------------------------------|
| 1      | 5025017X18 | 2   | BOLT, 1/2-13 X 2-1/4" GD5 CZ                                              |
| 2      | 5025332    | 6   | NUT, 1/2-13 Hex Side Lock                                                 |
| 3      | 5025018X24 | 4   | BOLT, 1/2-20 X 3" GD5 YZ                                                  |
| 4      | 5101927    | 12  | NUT, 1/2-13 HEX NYLOCK FLANGE GR8, YZ<br>-(Torque to 110 ft lbs)          |
| 5      | 5025158    | 4   | WASHER, 1/2 SAE                                                           |
| 6      | 5025488X52 | 6   | BOLT, 1/2-13 X 6-1/2" GD8 YZ                                              |
| 7      | 5049777    | 2   | SPACER, .52 x 1.00 x 1.00                                                 |
| 8      | 5061781    | 4   | SPACER, .52 X 1.00 X 1.15                                                 |
| 9      | 5020095    | 2   | GREASE FITTING, 1/4-28 Straight<br>-(not shown)                           |
| 10     | 5025294X26 | 8   | BOLT, 1/2-13 X 3-1/4" ALLEN HEAD                                          |
| 11     | 5400802B   | 1   | WELD, BRACKET, BRAKE CABLE, RH                                            |
| 12     | 5400803B   | 1   | WELD, BRACKET, BRAKE CABLE, LH<br>-(not shown)                            |
| 13     | 5100332    | 4   | SHIM, CAMBER - PLATED                                                     |
| 14     | 5025017X16 | 2   | BOLT, 1/2-13 X 2" GD5 CZ                                                  |
| 15     | 5025018X14 | 4   | BOLT, 1/2-20 X 1-3/4" GD8 CZ                                              |
| 16     | 5023384    | 2   | SHOCK, REAR, IS4500                                                       |
| 17     | 5100355    | 2   | SHOCK/SPRING ASSEMBLY, IS5000 (2006)                                      |
| 18     | 5101617    | 4   | ASSM, A-ARM WITH BEARINGS<br>-(Number Side Should Face Up)(*See Footnote) |
| 19     | 84008457   | 2   | MOUNT                                                                     |
| 20     | 5400874B   | 1   | WELD, MOTOR MOUNT, LH - RED                                               |
| 21     | 5400873B   | 1   | WELD, MOTOR MOUNT, RH - RED<br>-(not shown)                               |
| 22     | 5025098    | 12  | NUT, Hex, Nylon Lock, 1/2-20                                              |
| 23     | 5025018X20 | 4   | BOLT, 1/2-20 X 2-1/2" GD5 CZ                                              |
| 24     | 5044609    | 2   | SPACER, .52 X 1.00 X .38, CZ                                              |
| 25     | 5025523    | 16  | BELLEVILLE WASHER, 1.259 X .512 X .138 YZ                                 |

### Footnotes:

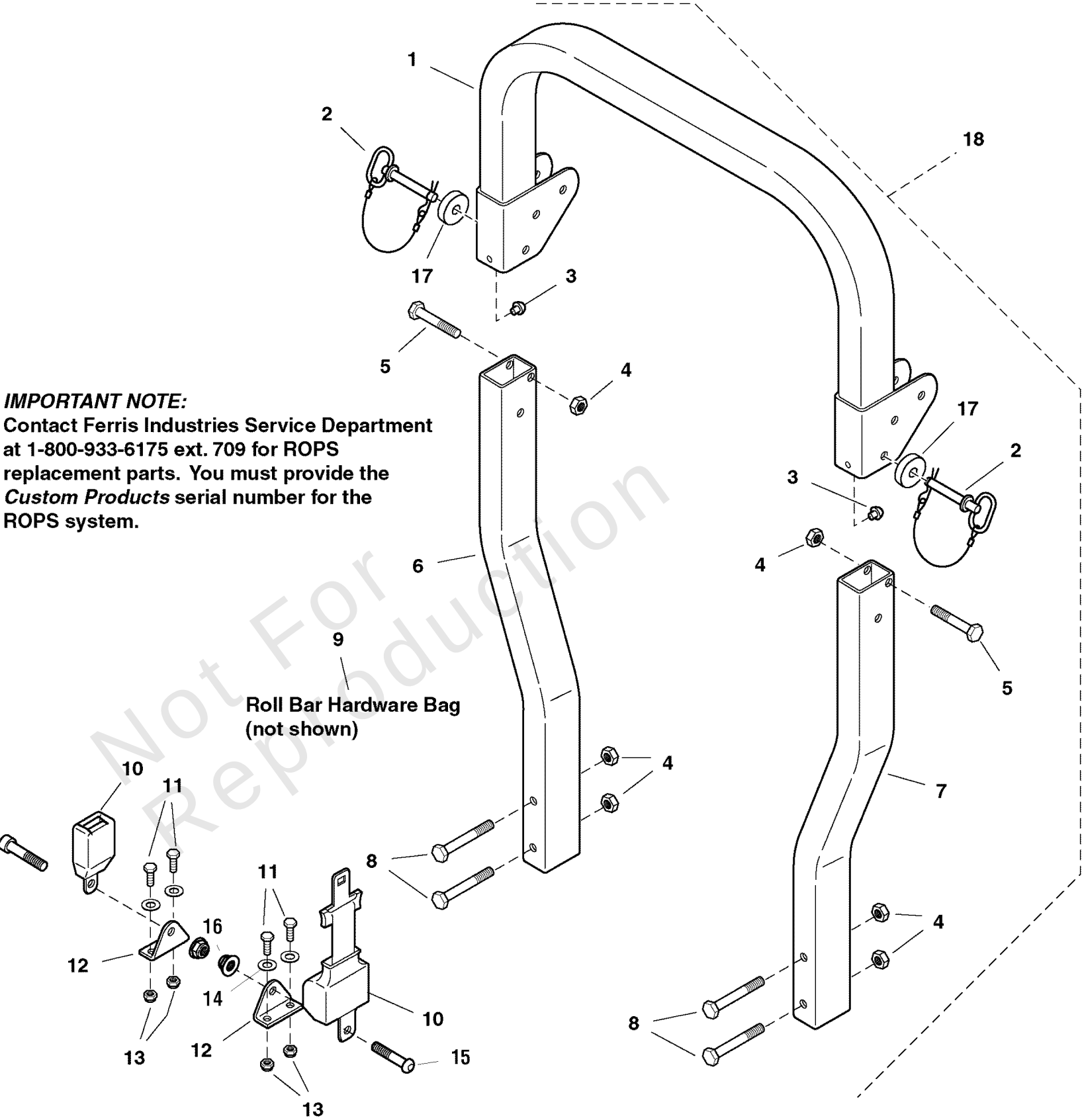
\* When updating cast a-arms from rubber bushing styles to the bearing styles please order kit# 5600321.

# Roll Bar & Seat Belt Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602

**IMPORTANT NOTE:**  
Contact Ferris Industries Service Department  
at 1-800-933-6175 ext. 709 for ROPS  
replacement parts. You must provide the  
*Custom Products* serial number for the  
ROPS system.



## Roll Bar & Seat Belt Group

| REF NO | PART NO   | QTY | DESCRIPTION                                                     |
|--------|-----------|-----|-----------------------------------------------------------------|
| 1      | -----     | 1   | ROLL BAR TOP LOOP<br>-(See Drawing Note)                        |
| 2      | 5100079   | 2   | PIN, Hitch, Black W/ Plastic Lanyard                            |
| 3      | 5100383   | 2   | RUBBER BUMPER                                                   |
| 4      | -----     | 6   | * NUT                                                           |
| 5      | -----     | 2   | * BOLT                                                          |
| 6      | -----     | 1   | ROLL BAR POST, RH<br>-(See Drawing Note)                        |
| 7      | -----     | 1   | ROLL BAR POST, LH<br>-(See Drawing Note)                        |
| 8      | -----     | 4   | * BOLT                                                          |
| 9      | 5100379   | 1   | ROLL BAR HARDWARE BAG<br>-(Includes hitch pins)                 |
| 10     | 5100139   | 1   | SEAT BELT ASSEMBLY, Standard<br>-(Includes mounting hardware)   |
| 10     | 5100397   | 1   | SEAT BELT ASSEMBLY, Extra Long<br>-(Includes mounting hardware) |
| 11     | 5025013X8 | 4   | BOLT, 3/8-16 X 1" GD5 CZ                                        |
| 12     | 5401086B  | 2   | MOUNT, SEAT BELT - RED                                          |
| 13     | 5025394   | 4   | NUT, 3/8-16 Hex Nylock Flange                                   |
| 14     | 5025156   | 4   | WASHER, 3/8 SAE                                                 |
| 15     | 5100267   | 2   | SCREW, 1/2-13 X 1" SHCS                                         |
| 16     | 5025396   | 2   | NUT, Hex Flange, Nylock, 1/2-13                                 |
| 17     | 5100545   | 2   | RUBBER WASHER                                                   |
| 18     | -----     | 1   | ROPS (Call 1-800-933-6175 ext. 2193 if replacing a ROPS)        |

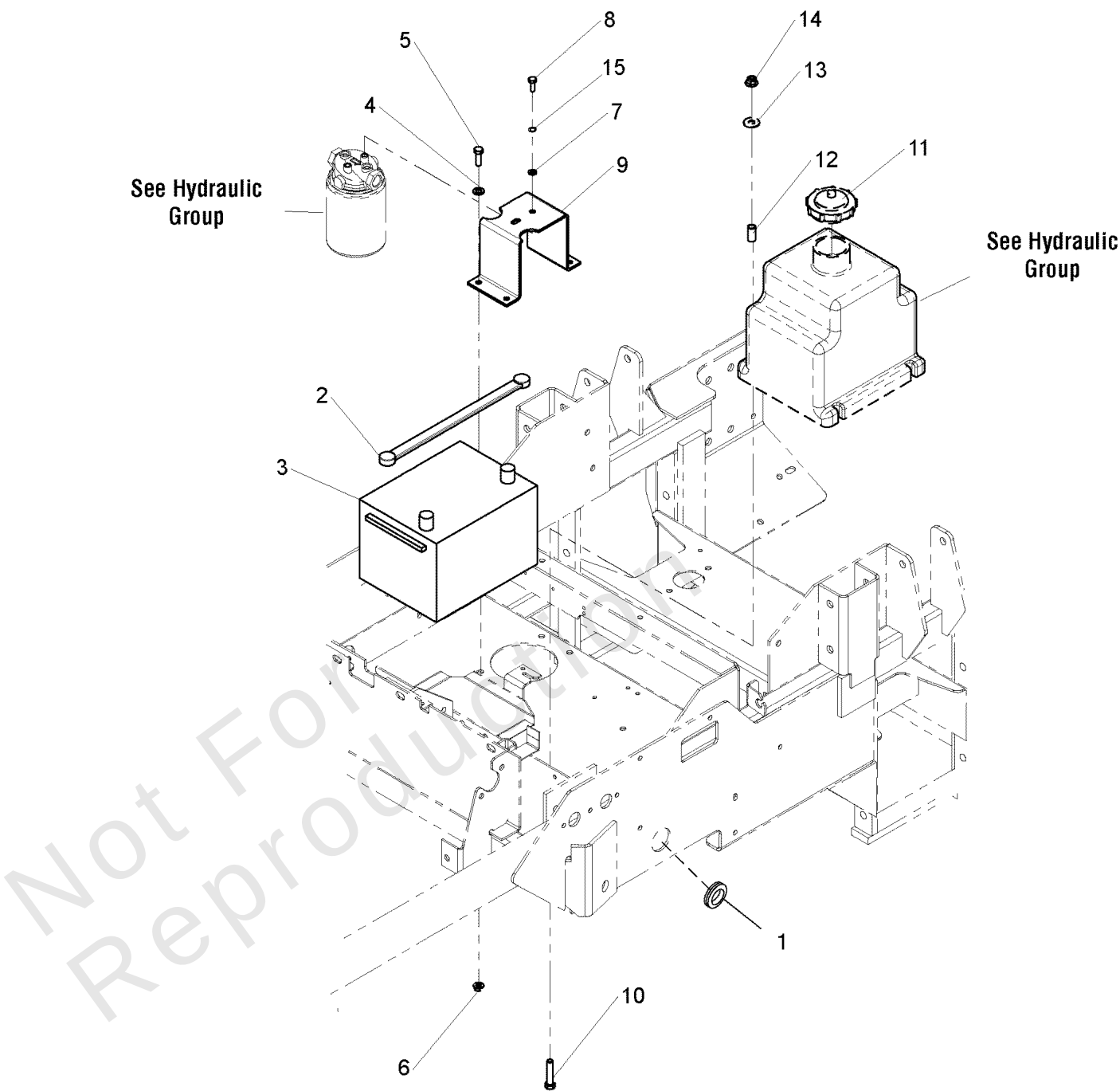
### Footnotes:

\* Not serviced. For replacement hardware, you must purchase the Roll Bar Hardware Bag (Ref. No. 9).

**Seat Compartment Group**

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



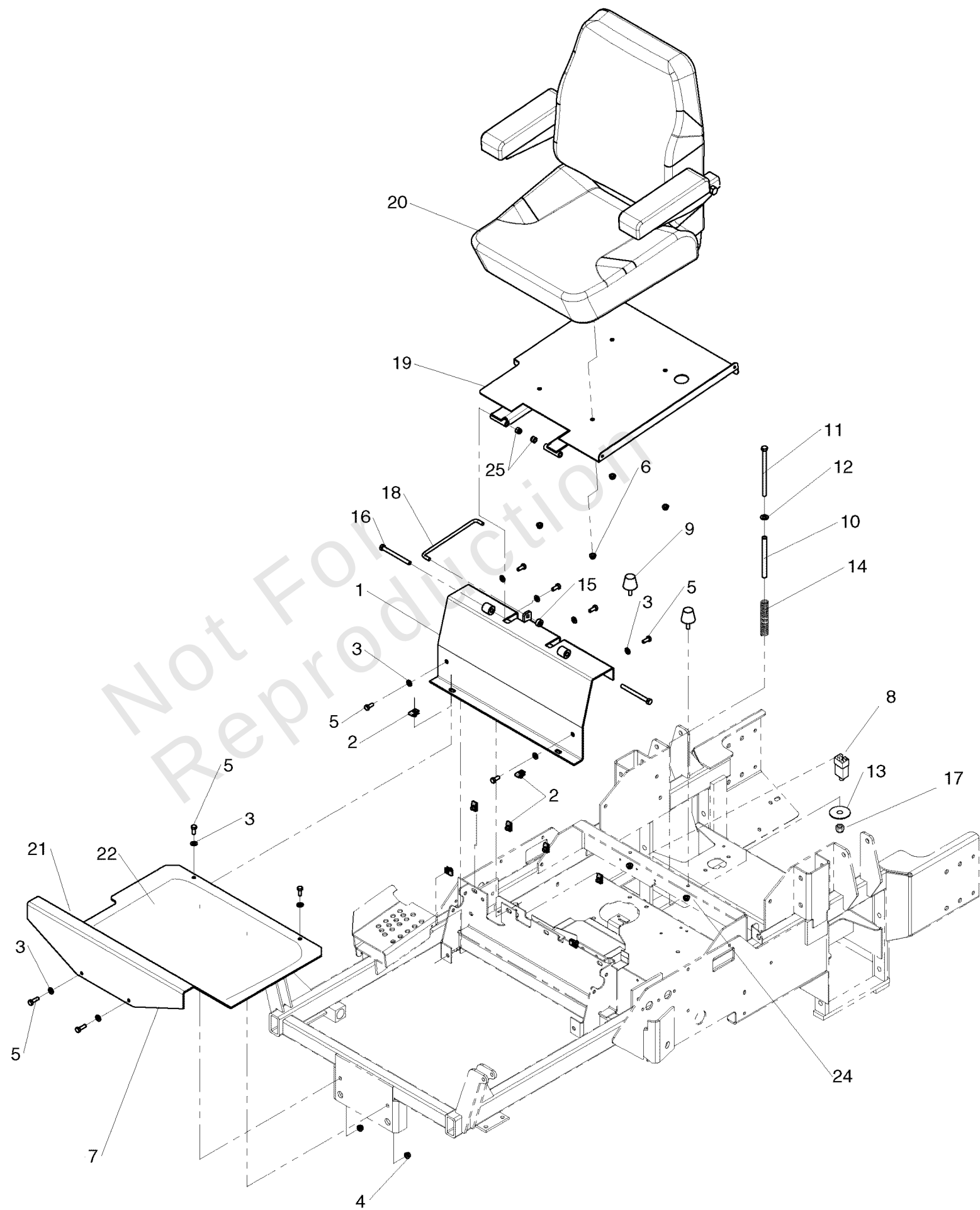
### Seat Compartment Group

| REF NO | PART NO    | QTY | DESCRIPTION                   |
|--------|------------|-----|-------------------------------|
| 1      | 5021397    | 2   | GROMMET, 1-1/4                |
| 2      | 1722009    | 1   | STRAP-BLACK RUBB              |
| 3      | -----      | 1   | BATTERY, 12V (BCI58, 500 CCA) |
| 4      | 5025155    | 4   | WASHER, 5/16" SAE             |
| 5      | 5025011X8  | 4   | BOLT, 5/16-18 X 1" GD5 YZ     |
| 6      | 5025392    | 4   | NUT, 5/16-18 NYLOCK FLANGE    |
| 7      | 5025154    | 2   | WASHER, 1/4 SAE               |
| 8      | 5025010X6  | 2   | BOLT, 1/4-20 X 3/4" GD5 YZ    |
| 9      | 5401130B   | 1   | MOUNT, OIL FILTER - RED       |
| 10     | 5025013X14 | 4   | BOLT, 3/8-16 X 1-3/4" GD5 CZ  |
| 11     | 5022437    | 1   | CAP, 2-1/2" VENTED            |
| 12     | 5044959    | 4   | SPACER, .38 X .50 X 1.00      |
| 13     | 5025401    | 4   | WASHER, 3/8" USS              |
| 14     | 5025394    | 4   | NUT, 3/8-16 HEX NYLOCK FLANGE |
| 15     | 5025169    | 2   | WASHER, 1/4 LOCK              |

**Seat, Mount & Floor Group**

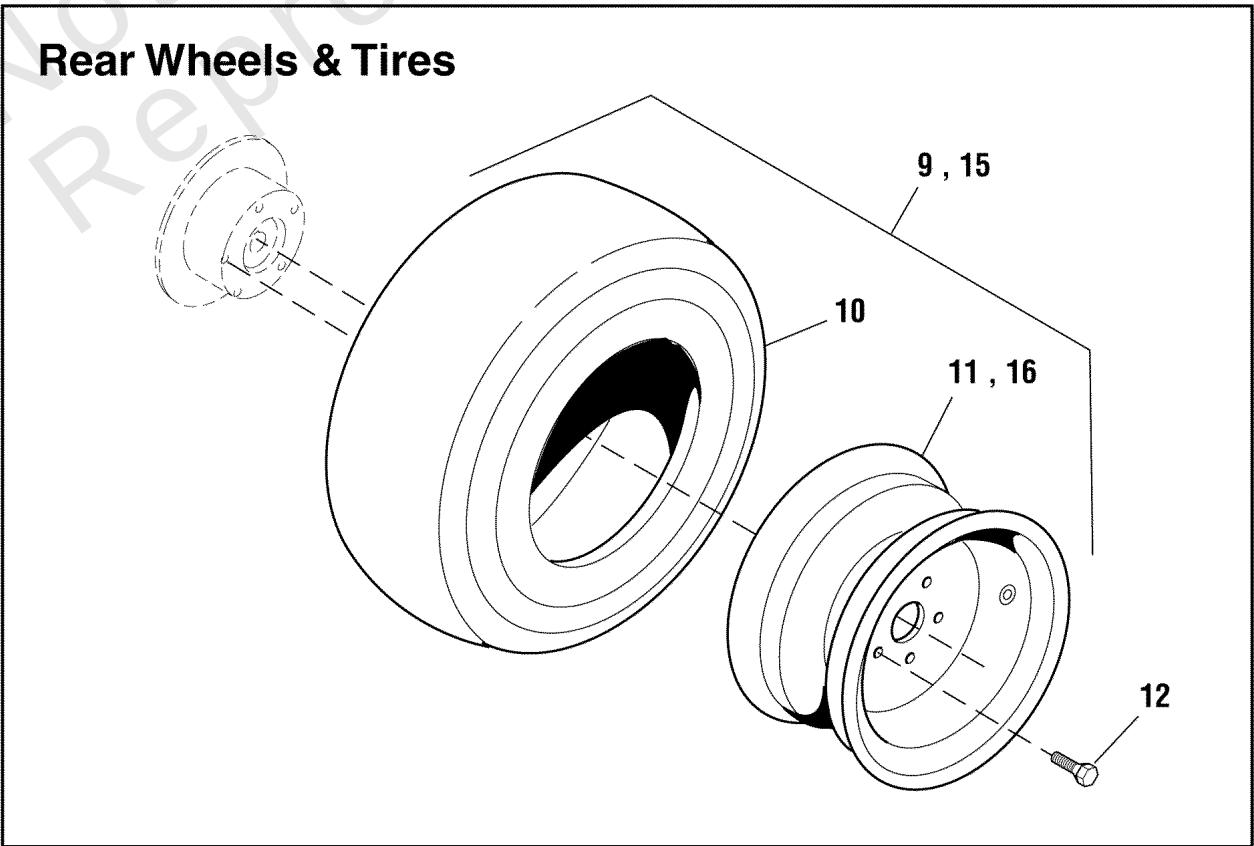
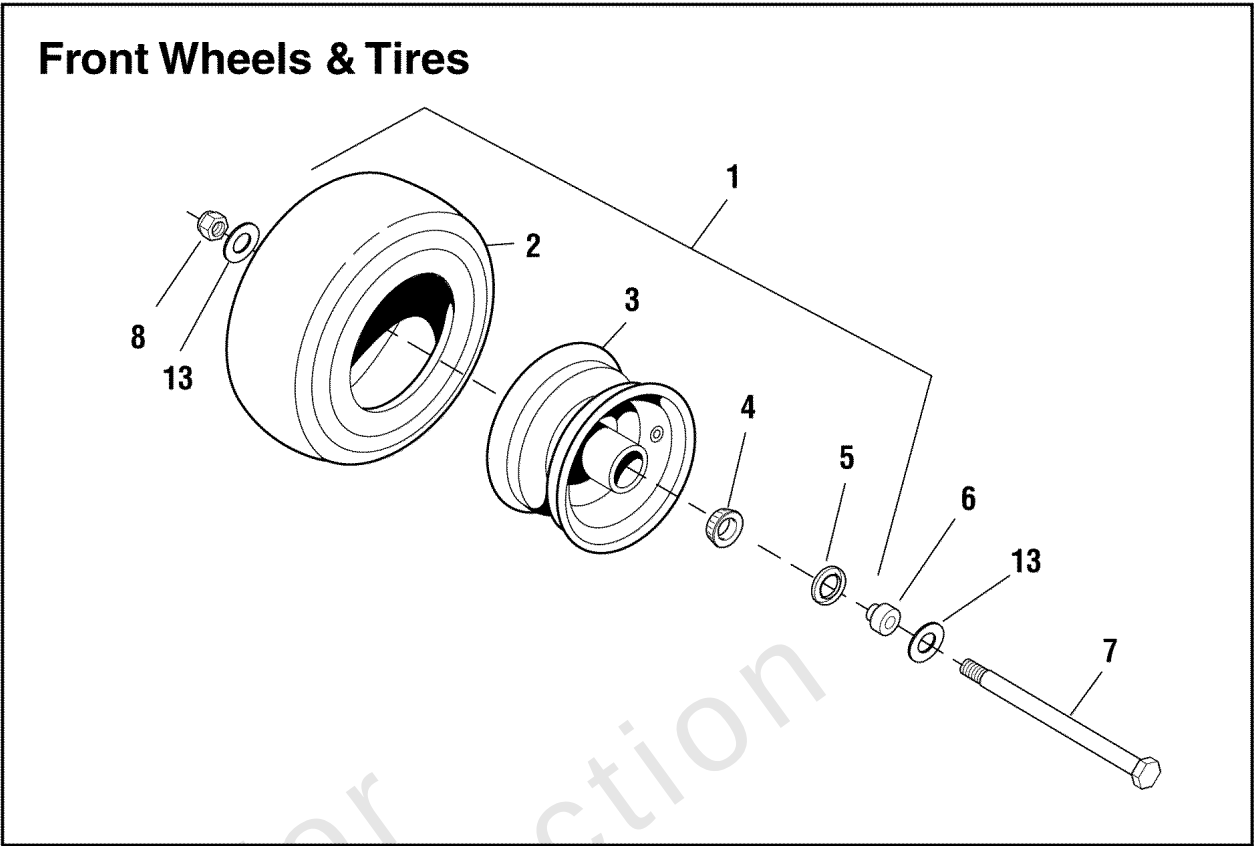
Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5900602



## Seat, Mount & Floor Group

| REF NO | PART NO    | QTY | DESCRIPTION                                                 |
|--------|------------|-----|-------------------------------------------------------------|
| 1      | 5600304    | 1   | SEAT PLATE W/ DECALS, IS5100Z<br>-(Includes safety decals)  |
| 2      | 5022308    | 8   | BODY CLIP, 5/16-18-7GA MATERIAL                             |
| 3      | 5025155    | 10  | WASHER, 5/16" SAE                                           |
| 4      | 5025139    | 2   | NUT, 5/16-18 HEX SERRATED FLANGE (LARGE)                    |
| 5      | 5025011X8  | 10  | BOLT, 5/16-18 X 1" GD5                                      |
| 6      | 5025392    | 4   | NUT, 5/16-18 HEX NYLOCK FLANGE                              |
| 7      | 5400277B   | 1   | PLATE, FLOOR DETAIL - RED                                   |
| 8      | 5022094    | 1   | SWITCH, PLUNGER, N.C./N.C.                                  |
| 9      | 5022612    | 2   | BUMPER, RUBBER 5/16-18                                      |
| 10     | 5046586    | 1   | SPACER, .38 X .50 X 5.06                                    |
| 11     | 5025013X48 | 1   | BOLT, 3/8-16 X 6" GD5 CZ                                    |
| 12     | 5025156    | 1   | WASHER, 3/8 SAE                                             |
| 13     | 5025326    | 1   | WASHER, 2.00 X .390 X .135                                  |
| 14     | 5022798    | 1   | SPRING, COMP, .835 X.105 X4.26                              |
| 15     | 5020047    | 1   | COLLAR, 5/16" SET                                           |
| 16     | 5025013X32 | 2   | BOLT, 3/8-16 X 4" GD5 CZ                                    |
| 17     | 5025096    | 1   | NUT, 3/8-16 HEX NYLON LOCK                                  |
| 18     | 5061835    | 1   | ROD, SEAT STOP                                              |
| 19     | 5400713B   | 1   | WELD, SEAT MOUNT - RED                                      |
| 20a    | 5103004    | 1   | SEAT, LOW COMPANION<br>-(S/N: 2014582799 & ABOVE)           |
| 20b    | 5022955    | 1   | SEAT, DELUXE, GRAY (COMPLETE)<br>-(S/N: 2014582798 & BELOW) |
| 21     | 5101007    | 1   | SAFETY WALK, 17.38 X 6.00                                   |
| 22     | 5100999    | 1   | SAFETY WALK, 11.50 X 17.38                                  |
| 23     | 5025127    | 2   | NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)                    |
| 24     | 5025394    | 2   | NUT, 3/8-16 HEX NYLON FLANGE                                |
| 25     | 5102760X1  | 1   | SEAT BACK COVER<br>-(Not shown)                             |
| 26     | 5102760X2  | 1   | SEAT CUSHION<br>-(Not shown)                                |
| 27     | 5102760X3  | 1   | ARM REST, COMPANION<br>-(Not shown)                         |
| 28     | 5102760X4  | 2   | SLIDE RAILS<br>-(Not shown)                                 |
| 29     | 5022955X5  | 1   | SEAT ADJ. TRACKS, (SEATS INC 107101PS)(SV)<br>-(Not shown)  |



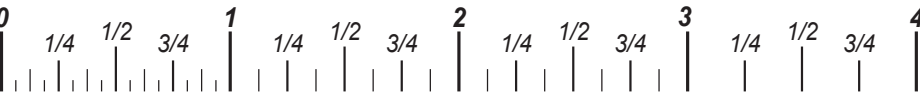
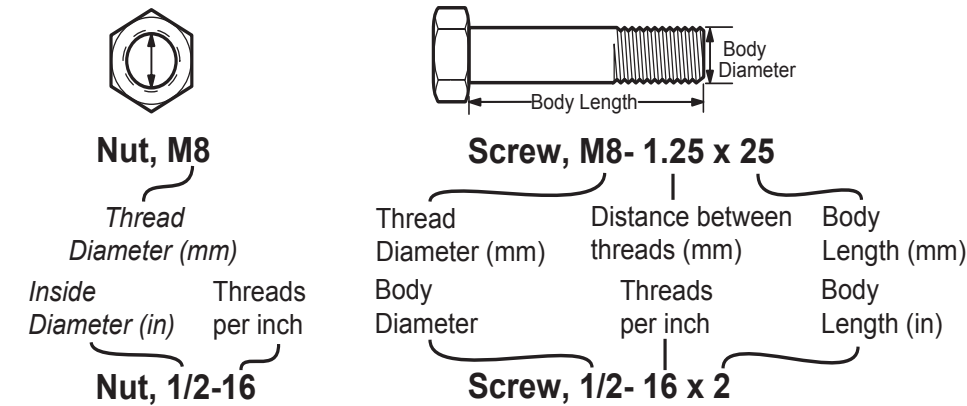
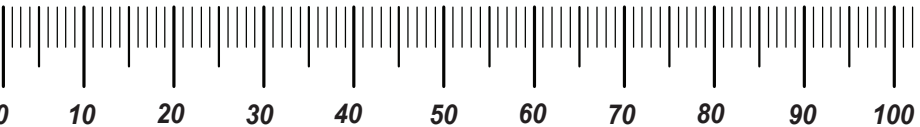
## Wheels & Tires Group

| REF NO | PART NO    | QTY | DESCRIPTION                                                                   |
|--------|------------|-----|-------------------------------------------------------------------------------|
| 1      | 5023136    | 2   | TIRE ASSM, 13 X 6.5 - 6, PNE / TB<br>-(Includes Ref No. 2 - 5 & 14)           |
| 2      | 5022577    | 2   | TIRE, RUBBER ONLY                                                             |
| 3      | 5023136X1  | 2   | WHEEL ASSEMBLY, for 13 x 6.5 x 6 Tires, Complete<br>-(Includes Ref No. 4 & 5) |
| 4      | 5022631SX2 | 4   | BEARING, Tapered Roller<br>-(2 per tire)                                      |
| 5      | 5022631SX3 | 4   | SEAL, GREASE<br>-(2 per tire)                                                 |
| 6      | 5047103    | 4   | ADAPTER, CASTER AXLE, CZ<br>-(2 per tire)                                     |
| 7      | 5025017X72 | 2   | BOLT, 1/2-13 X 9" GD5 YZ                                                      |
| 8      | 5025056    | 2   | NUT, 1/2-13 HEX NYLON LOCK                                                    |
| 9      | 5023363    | 2   | TIRE ASSM, 26X12.00-12, SOLID<br>-(S/N: 2013192650 & Below)                   |
| 10     | 84003893   | 2   | TIRE, 26 X 12 - 12                                                            |
| 11     | 5023364    | 2   | WHEEL, 12 X 8.5<br>-(S/N: 2013192650 & Below)                                 |
| 12     | 5022215    | 10  | BOLT, WHEEL LUG, 1/2" X 1-5/8                                                 |
| 13     | 5025158    | 4   | WASHER, 1/2 SAE                                                               |
| 14     | 5022631SX4 | 2   | BEARING, RACE<br>-(Not Shown)                                                 |
| 15     | 5101614    | 2   | WHEEL/TIRE ASSY, 26X12-12, 4PLY K505<br>-(S/N: 2013192651 & Above)            |
| 16     | 5101614X1  | 2   | Wheel, 12 X 9.5", 5 Hole<br>-(S/N: 2013192651 & Above)                        |

# 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).

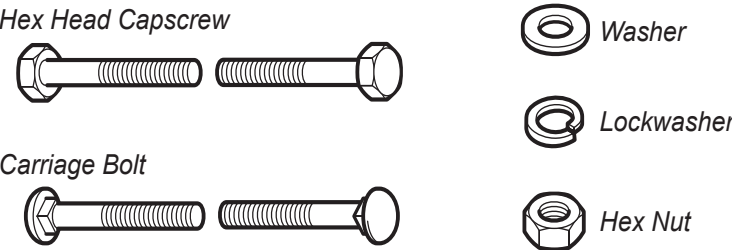
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

