



# Parts Manual

Mfg. No: 1696869-00  
SXDC82, 82V Battery Electric Cultivator





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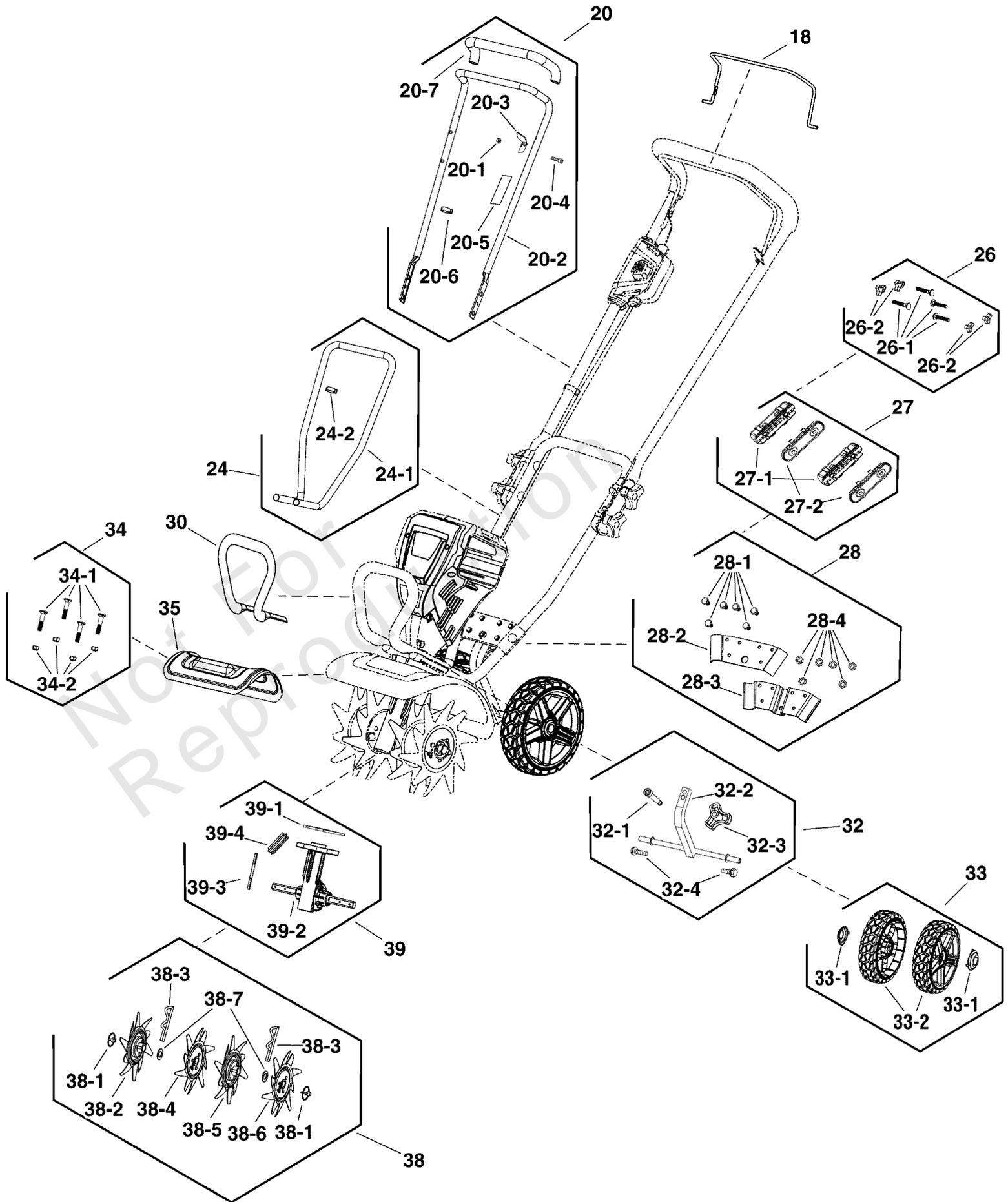
| Model Components                 | Page |
|----------------------------------|------|
| Handles & Tine Group. ....       | 4    |
| Power Head Group. ....           | 8    |
| Torque Specification Chart. .... | 12   |

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# Handles & Tine Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1696869-00



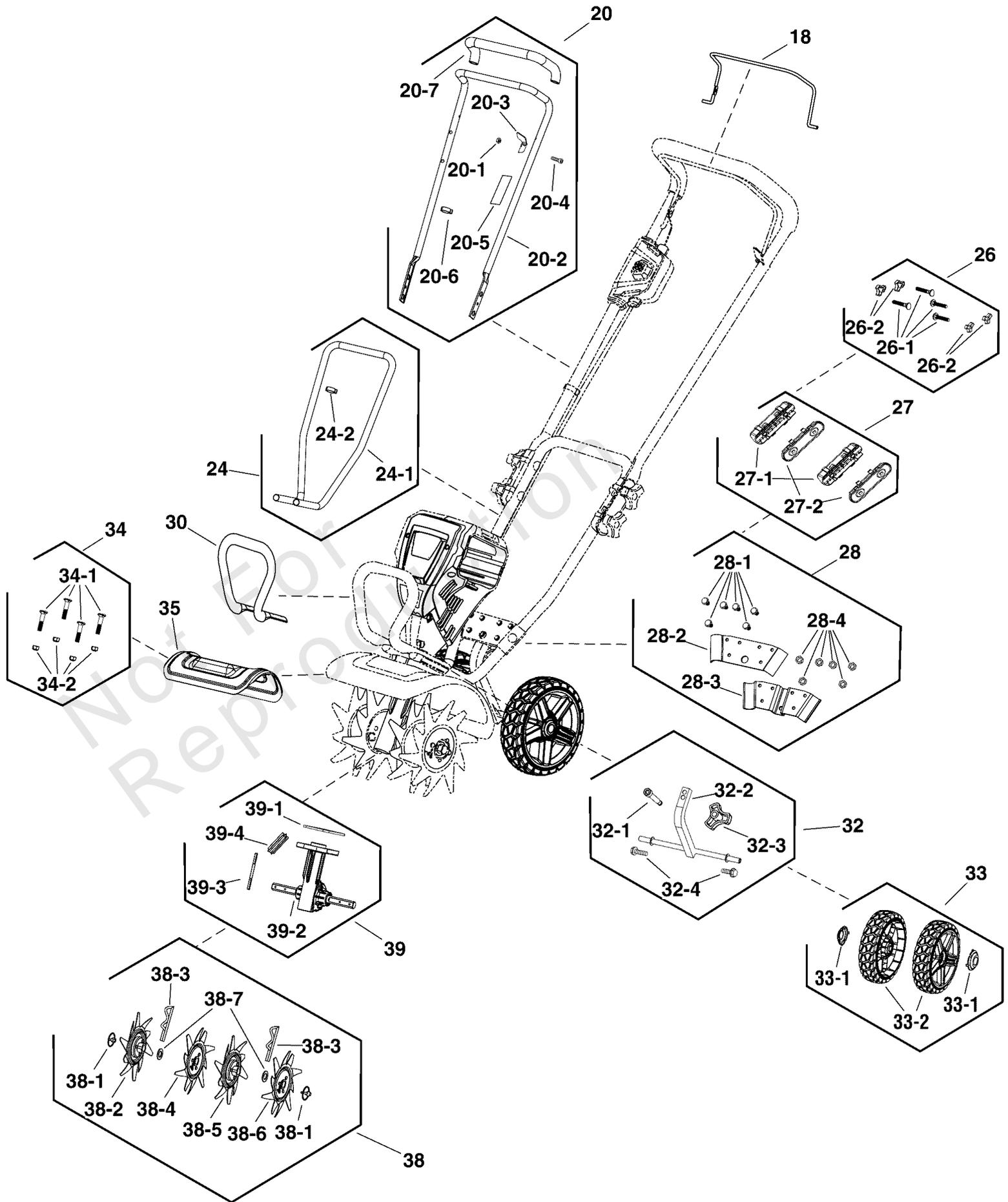
## Handles & Tine Group

| REF NO | PART NO | QTY | DESCRIPTION  |
|--------|---------|-----|--|
| 18     | 771046  | 1   | RELEASE LEVER  |
| 20     | 771072  | 1   | KIT, UPPER HANDLE<br>-(Incl. Ref. 20-1 through 20-7)   |
| 20-1   | -----   | 1   | NUT  |
| 20-2   | -----   | 1   | HANDLE, Upper  |
| 20-3   | -----   | 1   | BRACKET  |
| 20-4   | -----   | 1   | SCREW  |
| 20-5   | -----   | 1   | WARNING LABEL  |
| 20-6   | -----   | 1   | BRACKET  |
| 20-7   | -----   | 1   | GRIP, Foam   |
| 24     | 771049  | 1   | KIT, LOWER HANDLE<br>-(Incl. Ref. 24-1 & 24-2)         |
| 24-1   | -----   | 1   | HANDLE, Lower  |
| 24-2   | -----   | 1   | BRACKET  |
| 26     | 771050  | 2   | KIT, HANDLE HARDWARE<br>-(Incl. Ref. 26-1 & 26-2)      |
| 26-1   | -----   | 4   | BOLT   |
| 26-2   | -----   | 4   | KNOB   |
| 27     | 771051  | 2   | KIT, HANDLE BRACKETS<br>-(Incl. Ref. 27-1 & 27-2)      |
| 27-1   | -----   | 2   | HANDLE BRACKET INSIDE                                  |
| 27-2   | -----   | 2   | HANDLE BRACKET OUTSIDE                                 |
| 28     | 771052  | 1   | KIT, HANDLE SUPPORT<br>-(Incl. Ref. 28-1 through 28-4) |
| 28-1   | -----   | 6   | BOLT   |
| 28-2   | -----   | 1   | PLATE  |
| 28-3   | -----   | 1   | PLATE  |
| 28-4   | -----   | 6   | NUT  |
| 30     | 771053  | 1   | HANDLE   |
| 32     | 771054  | 1   | KIT, WHEEL AXLE<br>-(Incl. Ref. 32-1 through 32-4)     |
| 32-1   | -----   | 1   | BOLT   |
| 32-2   | -----   | 1   | PIN  |
| 32-3   | -----   | 1   | KNOB   |
| 32-4   | -----   | 2   | BOLT   |
| 33     | 771055  | 1   | KIT, WHEELS<br>-(Incl. Ref. 33-1 & 33-2)               |
| 33-1   | -----   | 2   | WHEEL  |
| 33-2   | -----   | 2   | COVER, Wheel   |
| 34     | 771056  | 1   | KIT, GUARD HARDWARE<br>-(Incl. Ref. 34-1 & 34-2)       |
| 34-1   | -----   | 4   | BOLT   |
| 34-2   | -----   | 4   | NUT  |
| 35     | 771057  | 1   | TINE GUARD   |
| 38     | 771058  | 1   | KIT, TINES<br>-(Incl. Ref. 38-1 through 38-7)          |
| 38-1   | -----   | 2   | KLIK PIN   |
| 38-2   | -----   | 1   | TINE   |
| 38-3   | -----   | 2   | PIN, Cotter  |
| 38-4   | -----   | 1   | TINE   |
| 38-5   | -----   | 1   | TINE   |
| 38-6   | -----   | 1   | TINE   |
| 38-7   | -----   | 1   | PAD  |
| 39     | 771059  | 1   | KIT, GEARBOX<br>-(Incl. Ref. 39-1 through 39-4)        |

# Handles & Tine Group

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## *Handles & Tine Group*

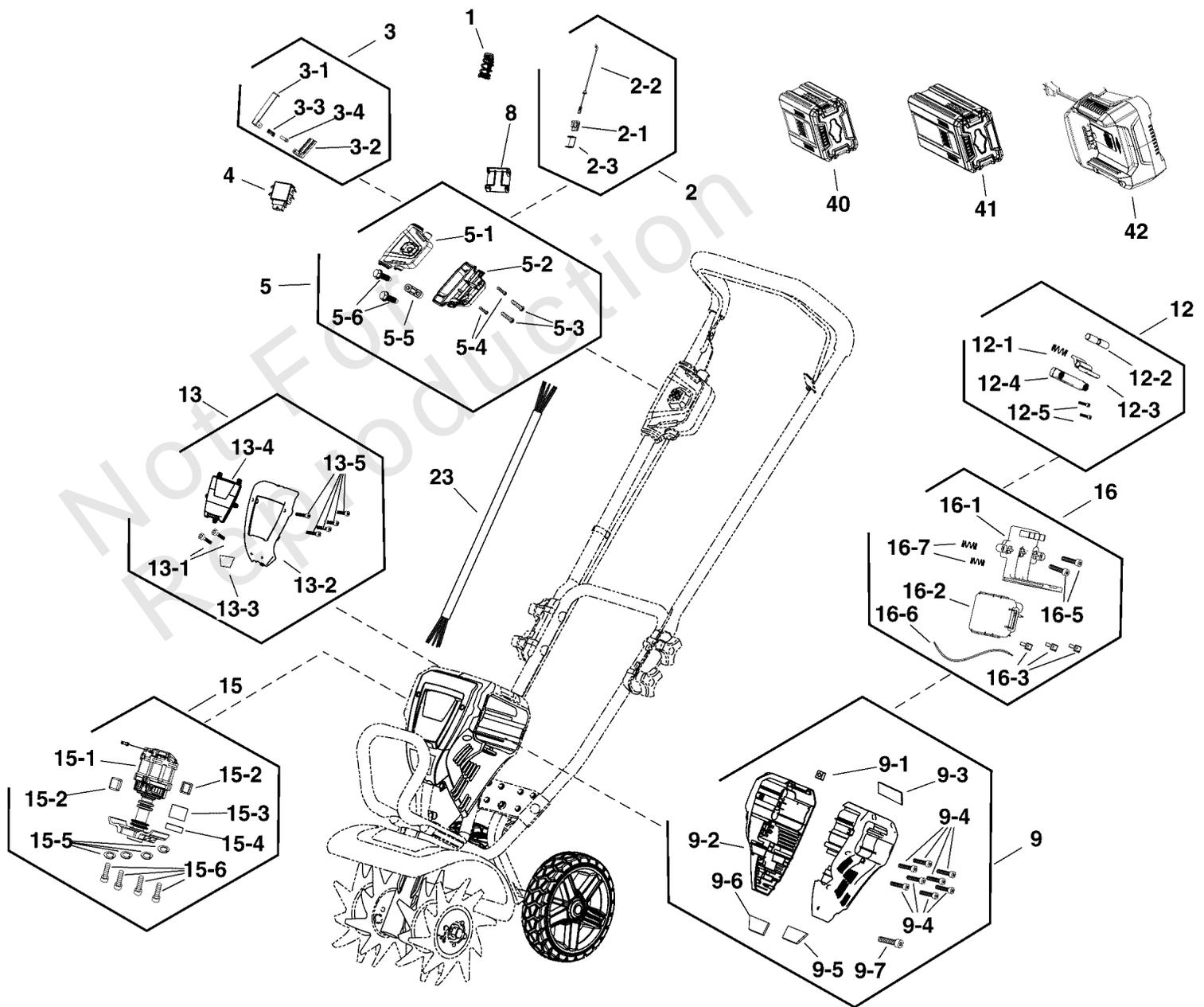
| REF NO | PART NO | QTY | DESCRIPTION |
|--------|---------|-----|-------------|
| 39-1   | -----   | 1   | GASKET      |
| 39-2   | -----   | 1   | GEARBOX     |
| 39-3   | -----   | 1   | PIN         |
| 39-4   | -----   | 1   | GEAR, Drive |

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# Power Head Group

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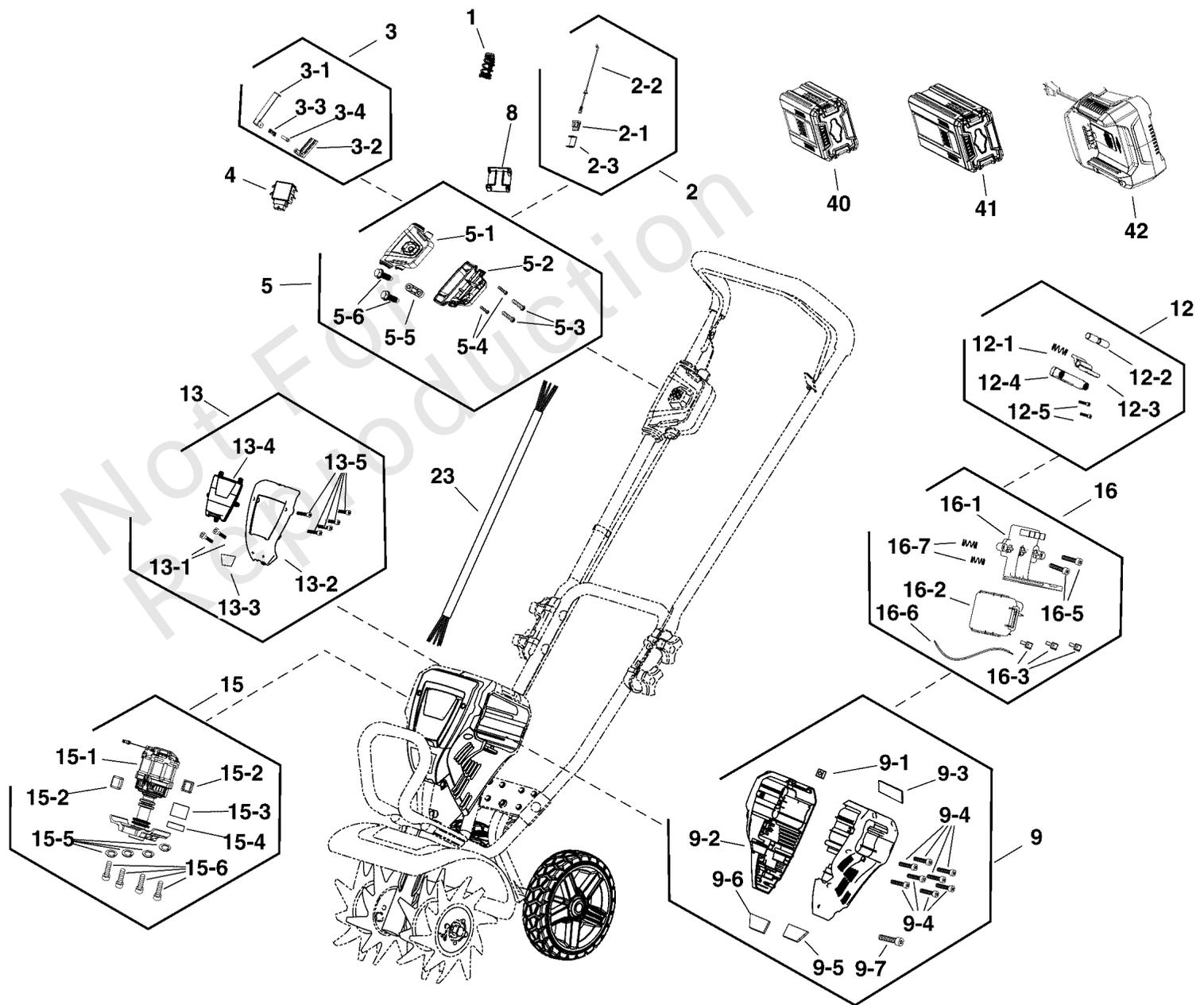
## Power Head Group

| REF NO | PART NO  | QTY | DESCRIPTION  |
|--------|----------|-----|--|
| 1      | 771034   | 1   | SPRING   |
| 2      | 771035   | 1   | KIT, CABLE ASSEMBLY<br>-(Incl. Ref. 2-1 through 2-3) |
| 2-1    | -----    | 1   | SPRING   |
| 2-2    | 84003406 | 1   | CABLE, Bail  |
| 2-3    | -----    | 1   | BLOCK  |
| 3      | 771036   | 1   | KIT, SLIDER ASSEMBLY                                 |
| 3-1    | -----    | 1   | PLATE  |
| 3-2    | -----    | 1   | BLOCK  |
| 3-3    | -----    | 1   | SPRING   |
| 3-4    | -----    | 1   | PIN  |
| 4      | 771037   | 1   | ADAPTER, HARNESS                                     |
| 5      | 771069   | 1   | KIT, STARTER ASSEMBLY                                |
| 5-1    | -----    | 1   | COVER, Bottom  |
| 5-2    | -----    | 1   | COVER, Bottom  |
| 5-3    | -----    | 1   | SPRING   |
| 5-4    | -----    | 1   | SCREW  |
| 5-5    | -----    | 1   | CLAMP  |
| 5-6    | -----    | 1   | SCREW  |
| 8      | 771039   | 1   | SWITCH INSERT  |
| 9      | 771070   | 1   | KIT, MOTOR HOUSING                                   |
| 9-1    | -----    | 2   | NUT  |
| 9-2    | -----    | 1   | HOUSING, Right                                       |
| 9-3    | -----    | 1   | LABEL  |
| 9-4    | -----    | 8   | SCREW  |
| 9-5    | -----    | 1   | SPONGE   |
| 9-6    | -----    | 1   | SPONGE   |
| 9-7    | -----    | 1   | SCREW  |
| 12     | 770164   | 1   | KIT, BATTERY RELEASE BUTTON                          |
| 12-1   | -----    | 1   | SPRING   |
| 12-2   | -----    | 1   | PIN  |
| 12-3   | -----    | 1   | BUTTON, Battery Releasee                             |
| 12-4   | -----    | 1   | PAD  |
| 12-5   | -----    | 2   | SCREW  |
| 13     | 771042   | 1   | KIT, TOP COVER                                       |
| 13-1   | -----    | 2   | SCREW  |
| 13-2   | -----    | 1   | COVER, DECORATIVE                                    |
| 13-3   | -----    | 1   | LABEL  |
| 13-4   | -----    | 1   | COVER, Battery                                       |
| 13-5   | -----    | 5   | SCREW  |
| 15     | 771043   | 1   | KIT, MOTOR ASSEMBLY                                  |
| 15-1   | -----    | 1   | MOTOR  |
| 15-2   | -----    | 2   | SEAL   |
| 15-3   | -----    | 1   | AXLE SLEEVE  |
| 15-4   | -----    | 1   | CLAMP  |
| 15-5   | -----    | 4   | WASHER, Spring                                       |
| 15-6   | -----    | 4   | BOLT   |
| 16     | 771071   | 1   | KIT, PCB ASSEMBLY<br>-(Incl. Ref. 16-1 through 16-7) |
| 16-1   | -----    | 1   | BATTERY HOLDER                                       |
| 16-2   | -----    | 1   | PCB  |
| 16-3   | -----    | 3   | TERMINAL   |

# Power Head Group

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Mfg. No: 1696869-00



## Power Head Group

| REF NO | PART NO | QTY | DESCRIPTION                             |
|--------|---------|-----|---|
| 16-5   | -----   | 2   | SCREW                                   |
| 16-6   | -----   | 1   | WIRE, Yellow                            |
| 16-7   | -----   | 2   | SPRING                                  |
| 23     | 771048  | 1   | WIRING HARNESS                          |
| 40     | 1760266 | 1   | * BATTERY, 2.0, 82V NA<br>-(Option)     |
| 41     | 1760265 | 1   | * BATTERY, 4.0, 82V NA<br>-(Option)     |
| 42     | 1760263 | 1   | * CHARGER, Battery, NA<br>-(Option)     |
| --     | 770294  | 1   | REMOTE BELT FOR BATTERY<br>-(Not Shown) |

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# Hardware Identification & Torque Specifications

| Torque Specification Chart                             |           |      |           |      |            |      |            |      |
|--|-----------|------|-----------|------|------------|------|------------|------|
| FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%) |           |      |           |      |            |      |            |      |
| Property Class   | 5.6       |      | 8.8       |      | 10.9       |      | 12.9       |      |
|  | Class 5.6 |      | Class 8.8 |      | Class 10.9 |      | Class 12.9 |      |
| Size Of Hardware                                       | in/lbs    | Nm.  | in/lbs    | Nm.  | in/lbs     | Nm.  | in/lbs     | Nm.  |
|  | ft/lbs    |      | ft/lbs    |      | ft/lbs     |      | ft/lbs     |      |
| M3   | 5.88      | .56  | 13.44     | 1.28 | 19.2       | 1.80 | 22.92      | 2.15 |
| M4   | 13.44     | 1.28 | 30.72     | 2.90 | 43.44      | 4.10 | 52.56      | 4.95 |
| M5   | 26.4      | 2.50 | 60.96     | 5.75 | 5.97       | 8.10 | 7.15       | 9.7  |
| M6   | 44.64     | 4.3  | 7.3       | 9.9  | 10.3       | 14   | 12.1       | 16.5 |
| M7   | 5.2       | 7.1  | 12.1      | 16.5 | 16.9       | 23   | 19.9       | 27   |
| M8   | 7.7       | 10.5 | 17.7      | 24   | 25         | 34   | 29         | 40   |
| M10  | 15        | 21   | 35        | 48   | 50         | 67   | 59         | 81   |
| M12  | 26        | 36   | 61        | 83   | 86.2       | 117  | 103        | 140  |
| M14  | 42        | 58   | 101       | 132  | 136        | 185  | 162        | 220  |
| M16  | 64        | 88   | 147       | 200  | 210        | 285  | 250        | 340  |
| M18  | 89        | 121  | 202       | 275  | 287        | 390  | 346        | 470  |
| M20  | 126       | 171  | 290       | 390  | 405        | 550  | 486        | 660  |
| M22  | 169       | 230  | 390       | 530  | 559        | 745  | 656        | 890  |
| M24  | 217       | 295  | 497       | 375  | 708        | 960  | 840        | 1140 |
| M27  | 320       | 435  | 733       | 995  | 1032       | 1400 | 1239       | 1680 |
| M30  | 435       | 590  | 995       | 1350 | 1401       | 1900 | 1681       | 2280 |
| M33  | 590       | 800  | 1349      | 1830 | 1902       | 2580 | 2278       | 3090 |
| M36  | 759       | 1030 | 1740      | 2360 | 2441       | 3310 | 2935       | 3980 |
| M39  | 988       | 1340 | 2249      | 3050 | 3163       | 4290 | 3798       | 5150 |

| Torque Specification Chart                      |             |       |             |       |             |         |
|---|-------------|-------|-------------|-------|-------------|---------|
| FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%) |             |       |             |       |             |         |
| Hardware Grade                                  | No Marks    |       | SAE Grade 5 |       | SAE Grade 8 |         |
|   | SAE Grade 2 |       | SAE Grade 5 |       | SAE Grade 8 |         |
| Size Of Hardware                                | in/lbs      | Nm.   | in/lbs      | Nm.   | in/lbs      | Nm.     |
|   | ft/lbs      |       | ft/lbs      |       | ft/lbs      |         |
| 8-32  | 19          | 2.1   | 30          | 3.4   | 41          | 4.6     |
| 8-36  | 20          | 2.3   | 31          | 3.5   | 43          | 4.9     |
| 10-24   | 27          | 3.1   | 43          | 4.9   | 60          | 6.8     |
| 10-32   | 31          | 3.5   | 49          | 5.5   | 68          | 7.7     |
| 1/4-20  | 66          | 7.6   | 8           | 10.9  | 12          | 16.3    |
| 1/4-28  | 76          | 8.6   | 10          | 13.6  | 14          | 19.0    |
| 5/16-18   | 11          | 15.0  | 17          | 23.1  | 25          | 34.0    |
| 5/16-24   | 12          | 16.3  | 19          | 25.8  | 29          | 34.0    |
| 3/8-16  | 20          | 27.2  | 30          | 40.8  | 45          | 61.2    |
| 3/8-24  | 23          | 31.3  | 35          | 47.6  | 50          | 68.0    |
| 7/16-14   | 30          | 40.8  | 50          | 68.0  | 70          | 95.2    |
| 7/16-20   | 35          | 47.6  | 55          | 74.8  | 80          | 108.8   |
| 1/2-13  | 50          | 68.0  | 75          | 102.0 | 110         | 149.6   |
| 1/2-20  | 55          | 74.8  | 90          | 122.4 | 120         | 163.2   |
| 9/16-12   | 65          | 88.4  | 110         | 149.6 | 150         | 204.0   |
| 9/16-18   | 75          | 102.0 | 120         | 163.2 | 170         | 231.2   |
| 5/8-11  | 90          | 122.4 | 150         | 204.0 | 220         | 299.2   |
| 5/8-18  | 100         | 136   | 180         | 244.8 | 240         | 326.4   |
| 3/4-10  | 160         | 217.6 | 260         | 353.6 | 386         | 525.0   |
| 3/4-16  | 180         | 244.8 | 300         | 408.0 | 420         | 571.2   |
| 7/8-9   | 140         | 190.4 | 400         | 544.0 | 600         | 816.0   |
| 7/8-14  | 155         | 210.8 | 440         | 598.4 | 660         | 897.6   |
| 1-8   | 220         | 299.2 | 580         | 788.8 | 900         | 1,244.0 |
| 1-12  | 240         | 326.4 | 640         | 870.4 | 1,000       | 1,360.0 |

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

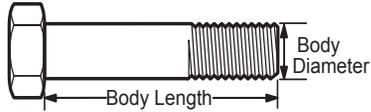


Nut, M8

Thread Diameter (mm)

Inside Diameter (in)      Threads per inch

Nut, 1/2-16



Screw, M8- 1.25 x 25

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

Body Diameter      Threads per inch      Body Length (in)

Screw, 1/2- 16 x 2



## Standard Hardware Sizing

When a washer or nut is identified as 1/2" (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

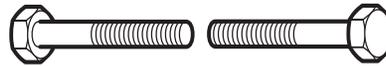
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

## NOTES

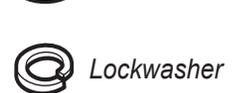
- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
  - for prevailing torque locknuts - use 65% of grade 5 torques.
  - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

## Common Hardware Types

Hex Head Capscrew



Washer



Carriage Bolt



Hex Nut

## Wrench & Fastener Size Guide

|                                  |                                  |                                  |  |                                 |
|----------------------------------|----------------------------------|----------------------------------|--|---------------------------------|
|                                  |                                  |                                  |  |                                 |
| 1/4" Bolt or Nut<br>Wrench—7/16" | 5/16" Bolt or Nut<br>Wrench—1/2" | 3/8" Bolt or Nut<br>Wrench—9/16" | 7/16" Bolt or Nut<br>Wrench (Bolt)—5/8"<br>Wrench (Nut)—11/16" | 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  |

