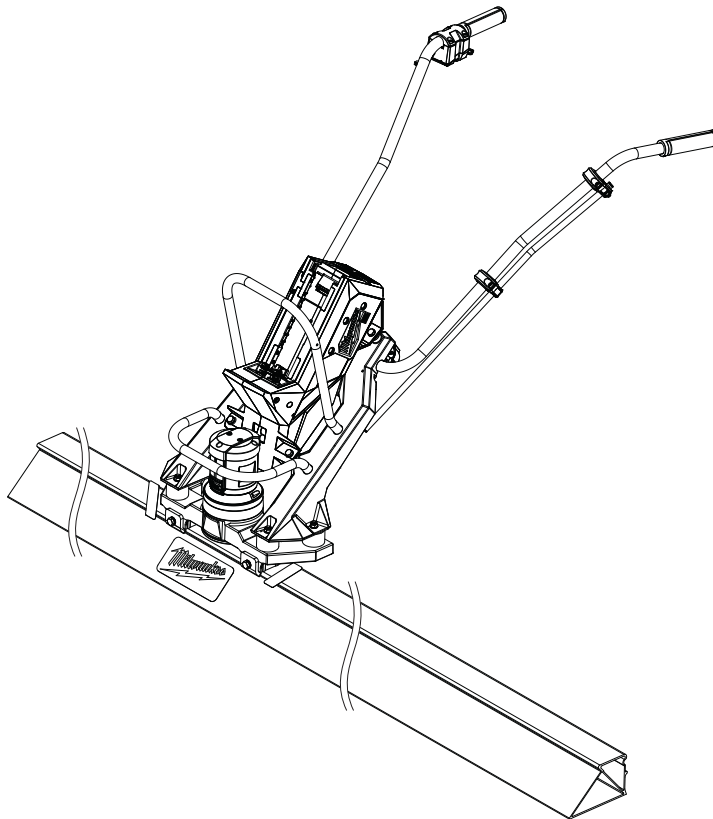




## SERVICE PARTS LIST

BULLETIN NO.  
54-20-0030

| SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS |        |            |      | REVISED BULLETIN                         | DATE      |
|--------------------------------------------------------|--------|------------|------|------------------------------------------|-----------|
| MX FUEL Concrete Screed                                |        |            |      |                                          | Apr. 2025 |
| CATALOG NO.                                            | MXF381 | SERIAL NO. | M06A | WIRING INSTRUCTION<br>See Page 7 thru 10 |           |



This product is to be serviced **ONLY** by personnel authorized by MILWAUKEE TOOL. Do **NOT** attempt to purchase parts and install them yourself. Installation by anyone other than an authorized MILWAUKEE personnel could void your warranty.

### For service, parts, or inquiries, contact us:

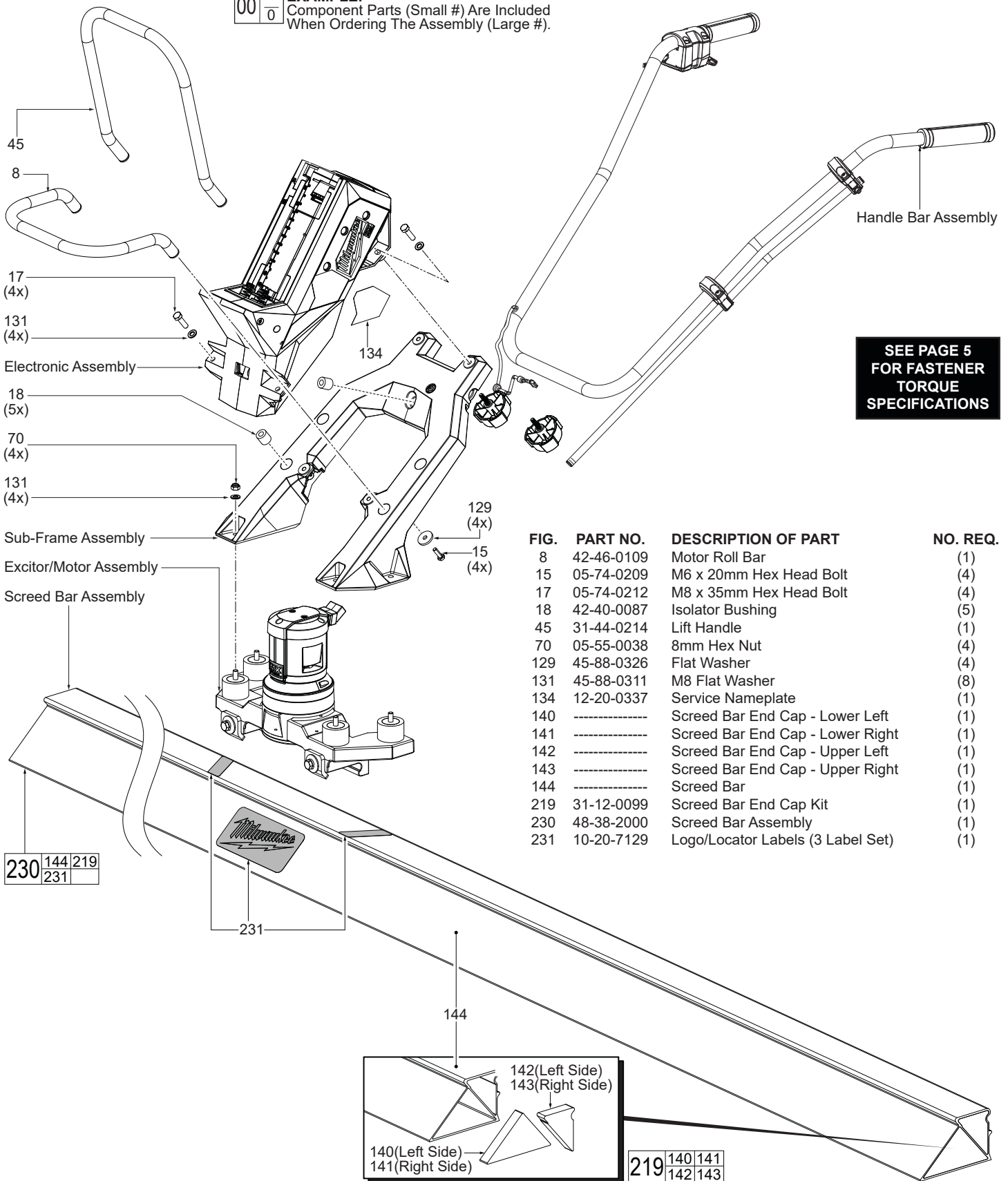
- Customer Service at 1.800.SAWDUST (1.800.729.3878)
- E-Service tool repair at: [www.milwaukeetool.com/e-service](http://www.milwaukeetool.com/e-service)
- Find a local authorized MILWAUKEE service location at [Milwaukeetool.com](http://Milwaukeetool.com)
- Find a MILWAUKEE *factory* Service Center Location or MILWAUKEE *factory* Central Repair Center at [Milwaukeetool.com](http://Milwaukeetool.com). Send the following, posted paid and insured:
  - Your name, address, and phone number
  - Description of the issues
  - Copy of the proof of purchase
  - Tool, charger, and batteries involved with the issues

### MILWAUKEE *factory* Central Repair Centers:

MILWAUKEE TOOL  
Central Repair  
1401 Sycamore Avenue  
Greenwood, MS 38930

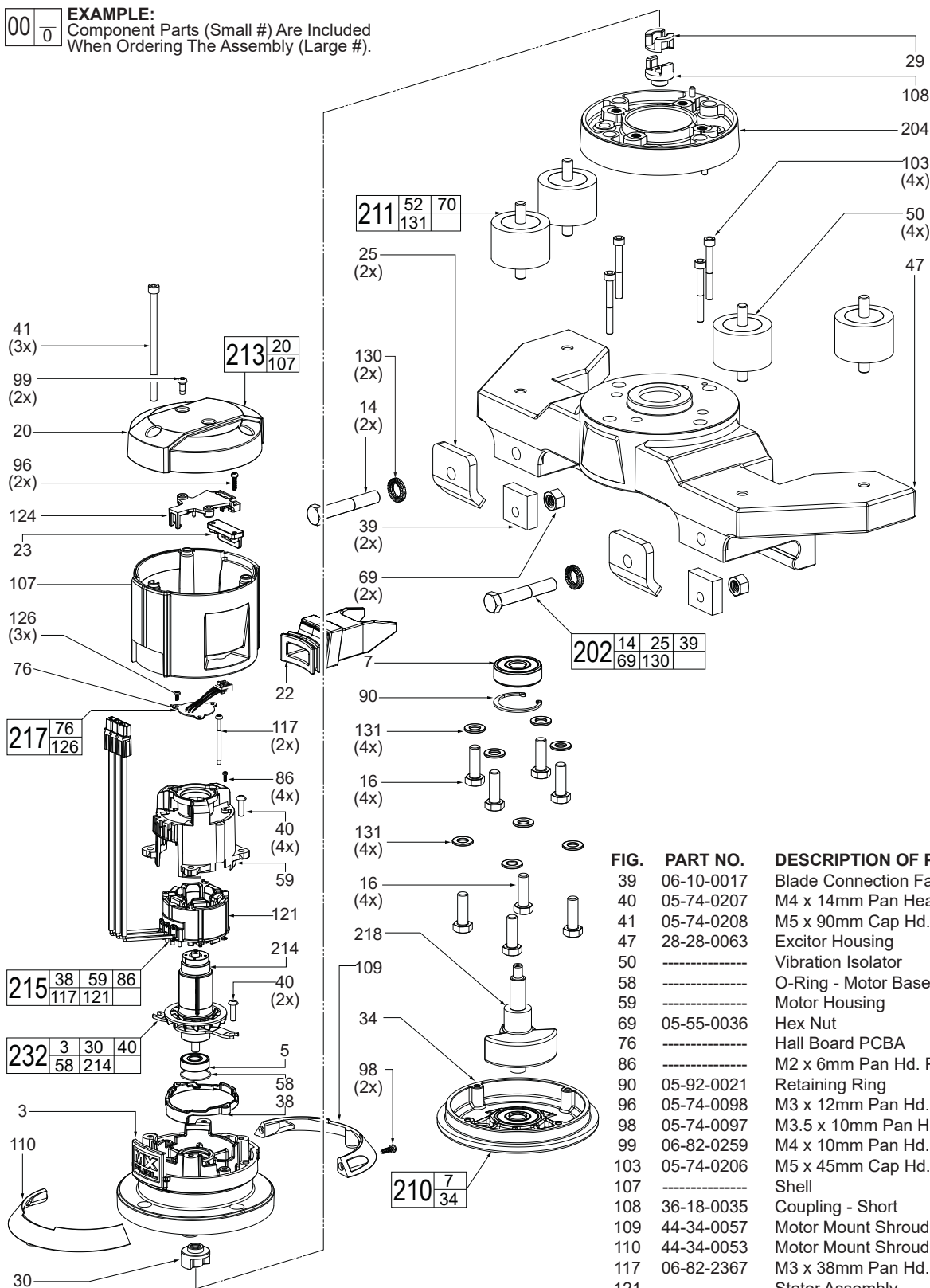
MILWAUKEE TOOL  
Central Repair  
2198 Southtech Drive  
Greenwood, IN 46143

**EXAMPLE:**  
 Component Parts (Small #) Are Included  
 When Ordering The Assembly (Large #).



| FIG. | PART NO.   | DESCRIPTION OF PART               | NO. REQ. |
|------|------------|-----------------------------------|----------|
| 8    | 42-46-0109 | Motor Roll Bar                    | (1)      |
| 15   | 05-74-0209 | M6 x 20mm Hex Head Bolt           | (4)      |
| 17   | 05-74-0212 | M8 x 35mm Hex Head Bolt           | (4)      |
| 18   | 42-40-0087 | Isolator Bushing                  | (5)      |
| 45   | 31-44-0214 | Lift Handle                       | (1)      |
| 70   | 05-55-0038 | 8mm Hex Nut                       | (4)      |
| 129  | 45-88-0326 | Flat Washer                       | (4)      |
| 131  | 45-88-0311 | M8 Flat Washer                    | (8)      |
| 134  | 12-20-0337 | Service Nameplate                 | (1)      |
| 140  | -----      | Screed Bar End Cap - Lower Left   | (1)      |
| 141  | -----      | Screed Bar End Cap - Lower Right  | (1)      |
| 142  | -----      | Screed Bar End Cap - Upper Left   | (1)      |
| 143  | -----      | Screed Bar End Cap - Upper Right  | (1)      |
| 144  | -----      | Screed Bar                        | (1)      |
| 219  | 31-12-0099 | Screed Bar End Cap Kit            | (1)      |
| 230  | 48-38-2000 | Screed Bar Assembly               | (1)      |
| 231  | 10-20-7129 | Logo/Locator Labels (3 Label Set) | (1)      |

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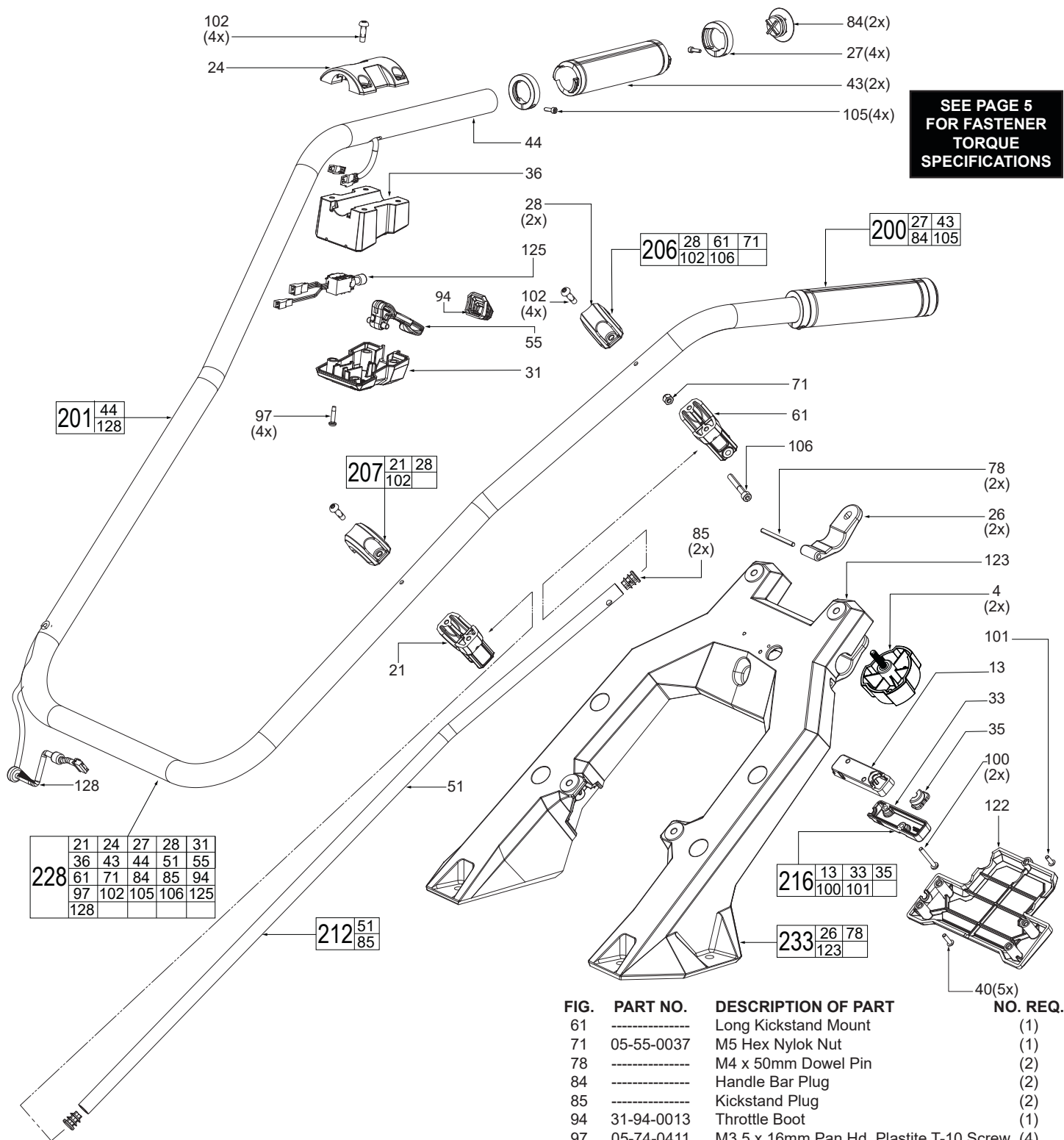
**EXAMPLE:**Component Parts (Small #) Are Included  
When Ordering The Assembly (Large #).

**SEE PAGE 5  
FOR FASTENER  
TORQUE  
SPECIFICATIONS**

| FIG. | PART NO.   | DESCRIPTION OF PART       | NO. REQ. |
|------|------------|---------------------------|----------|
| 3    | -----      | Alternate Motor Base      | (1)      |
| 5    | 02-02-0126 | Ball Bearing              | (1)      |
| 7    | 02-04-0231 | Ball Bearing              | (1)      |
| 14   | 05-74-0217 | .375 x 2.38 Hex Head Bolt | (2)      |
| 16   | 05-74-0211 | M8 x 25mm Hex Head Bolt   | (8)      |
| 20   | -----      | End Cover Cap             | (1)      |
| 22   | 23-94-0058 | Wire Channel              | (1)      |
| 23   | 22-56-0401 | Wire Connector Holder     | (1)      |
| 25   | -----      | Edge Clamp                | (2)      |
| 29   | 42-90-0024 | Coupler                   | (1)      |
| 30   | -----      | Coupling                  | (1)      |
| 34   | 28-28-0064 | Exciter Housing Cover     | (1)      |
| 38   | -----      | Fan Baffle                | (1)      |

| FIG. | PART NO.   | DESCRIPTION OF PART                     | NO. REQ. |
|------|------------|-----------------------------------------|----------|
| 39   | 06-10-0017 | Blade Connection Fastener               | (2)      |
| 40   | 05-74-0207 | M4 x 14mm Pan Head T-15 Screw           | (6)      |
| 41   | 05-74-0208 | M5 x 90mm Cap Hd. Hex Recess Screw      | (3)      |
| 47   | 28-28-0063 | Excitor Housing                         | (1)      |
| 50   | -----      | Vibration Isolator                      | (4)      |
| 58   | -----      | O-Ring - Motor Base                     | (1)      |
| 59   | -----      | Motor Housing                           | (1)      |
| 69   | 05-55-0036 | Hex Nut                                 | (2)      |
| 76   | -----      | Hall Board PCBA                         | (1)      |
| 86   | -----      | M2 x 6mm Pan Hd. Plastite T-6 Screw     | (4)      |
| 90   | 05-92-0021 | Retaining Ring                          | (1)      |
| 96   | 05-74-0098 | M3 x 12mm Pan Hd. Plastite T-10 Screw   | (2)      |
| 98   | 05-74-0097 | M3.5 x 10mm Pan Hd. Plastite T-15 Screw | (2)      |
| 99   | 06-82-0259 | M4 x 10mm Pan Hd. Plastite T-10 Screw   | (2)      |
| 103  | 05-74-0206 | M5 x 45mm Cap Hd. Hex Recess Screw      | (4)      |
| 107  | -----      | Shell                                   | (1)      |
| 108  | 36-18-0035 | Coupling - Short                        | (1)      |
| 109  | 44-34-0057 | Motor Mount Shroud - Cover              | (1)      |
| 110  | 44-34-0053 | Motor Mount Shroud - Support            | (1)      |
| 117  | 06-82-2367 | M3 x 38mm Pan Hd. ST T-10 Screw         | (2)      |
| 121  | -----      | Stator Assembly                         | (1)      |
| 124  | 45-60-0072 | Connector Support                       | (1)      |
| 126  | -----      | M2.6 x 10mm Pan Hd. ST T-8 Screw        | (3)      |
| 130  | 45-88-0312 | Heico-Lock Washer                       | (2)      |
| 131  | 45-88-0311 | M8 Flat Washer                          | (8)      |
| 202  | 42-68-0106 | Bar Clamp Hardware Service Kit          | (1)      |
| 204  | 42-90-0032 | Drive Mount Coupler Service Assembly    | (1)      |
| 210  | 31-15-0129 | Excitor Cover Service Assembly          | (1)      |
| 211  | 14-50-0121 | Vibration Isolator Service Kit          | (1)      |
| 213  | 31-50-0149 | End Cover Kit                           | (1)      |
| 214  | -----      | Rotor Assembly                          | (1)      |
| 215  | 14-20-9165 | Stator Service Kit                      | (1)      |
| 217  | 22-80-0018 | Hall Board Service Kit                  | (1)      |
| 218  | 36-90-0023 | Excitor/Shaft Service Assembly          | (1)      |
| 232  | 16-01-1021 | Rotor/Base Service Assembly             | (1)      |





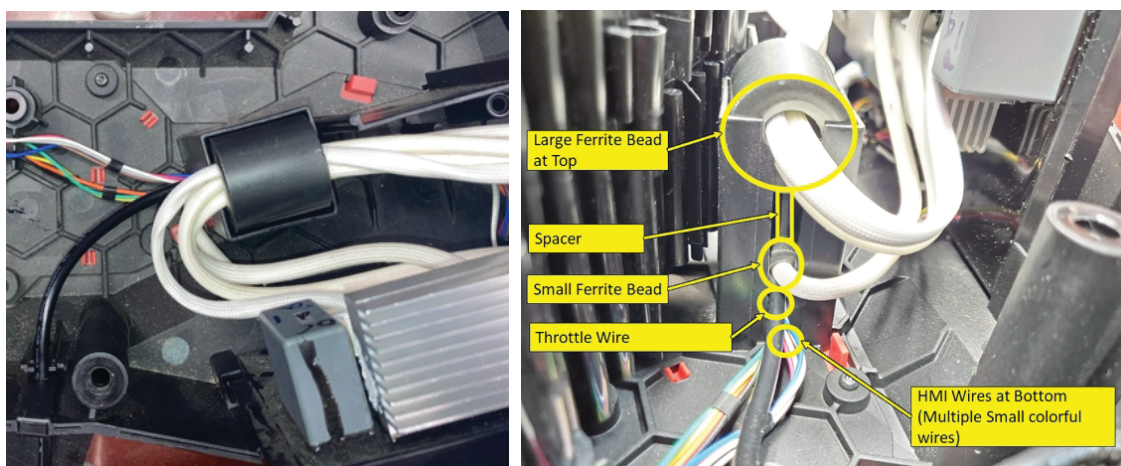
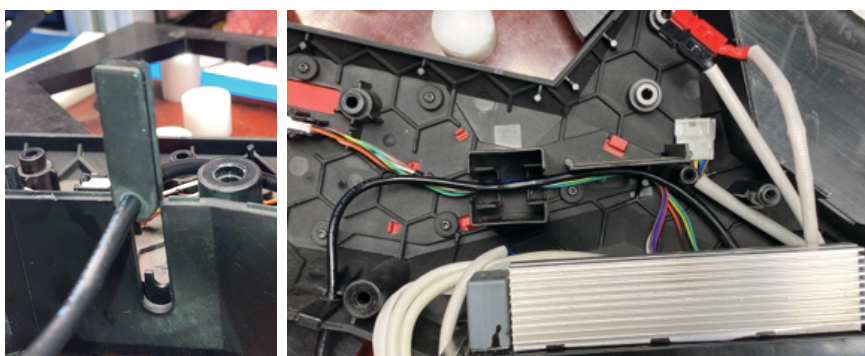
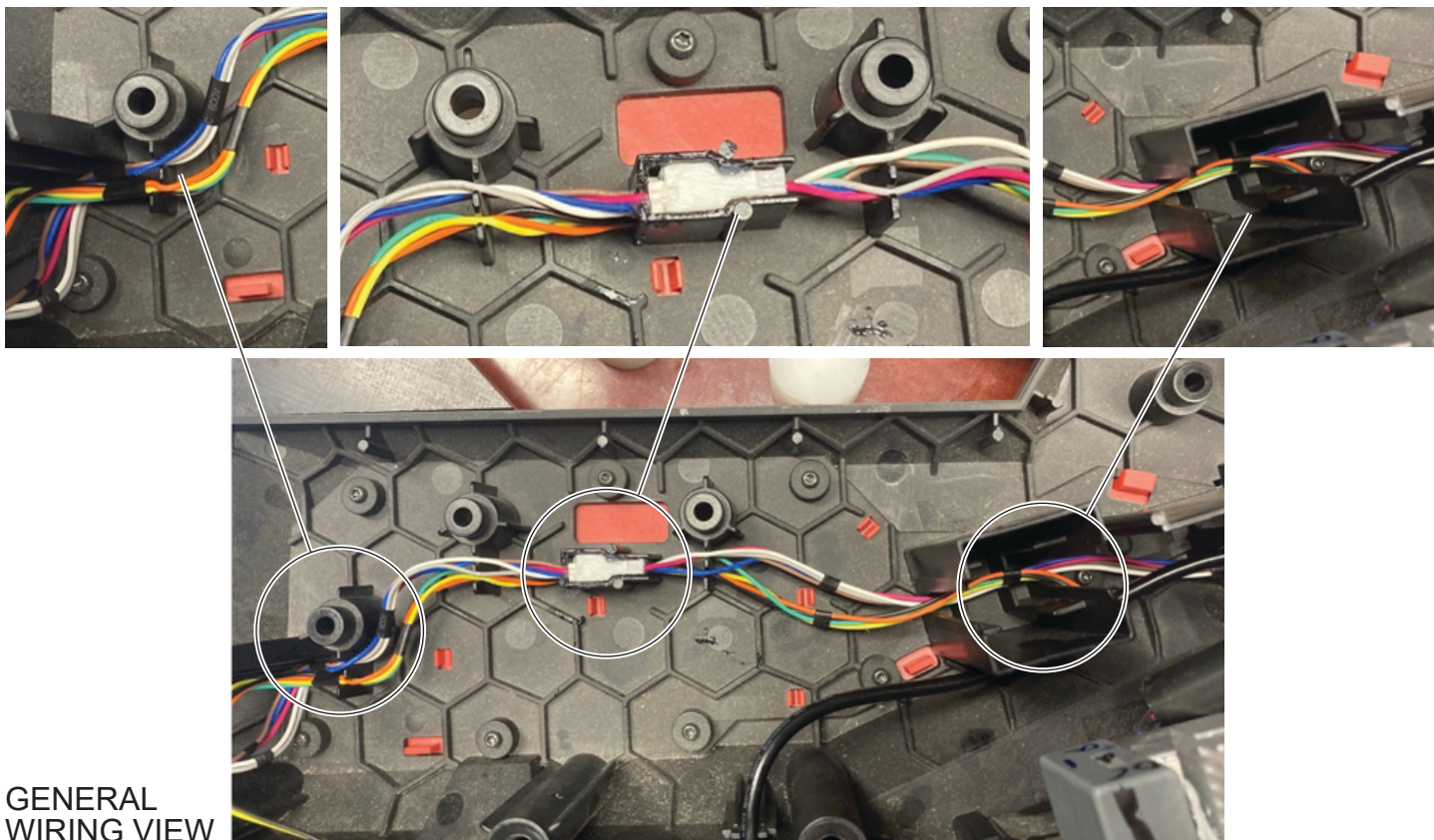
| FIG. | PART NO.   | DESCRIPTION OF PART          | NO. REQ. |
|------|------------|------------------------------|----------|
| 4    | 42-68-0070 | Handle/Bar Clamp Assembly    | (2)      |
| 13   | -----      | Connector Holder - Support   | (1)      |
| 21   | -----      | Long Kickstand Catch         | (1)      |
| 24   | 31-44-0203 | Control Clamp                | (1)      |
| 26   | -----      | Handle Bar Clamp             | (2)      |
| 27   | -----      | Handle Grip Clamp            | (4)      |
| 28   | -----      | Long Kickstand Clamp         | (2)      |
| 31   | 31-15-0219 | Bottom Cover                 | (1)      |
| 33   | -----      | Connector Holder - Cover     | (1)      |
| 35   | -----      | Grommet Support Cover        | (1)      |
| 36   | 31-15-0223 | Top Cover                    | (1)      |
| 40   | 05-74-0207 | M4 x 14mm Pan Hd. T-15 Screw | (5)      |
| 43   | -----      | Handle Grip                  | (2)      |
| 44   | -----      | Turn-In Handle Bar           | (1)      |
| 51   | -----      | Long Kickstand               | (1)      |
| 55   | 44-10-0212 | Throttle Lever               | (1)      |

| FIG. | PART NO.   | DESCRIPTION OF PART                     | NO. REQ. |
|------|------------|-----------------------------------------|----------|
| 61   | -----      | Long Kickstand Mount                    | (1)      |
| 71   | 05-55-0037 | M5 Hex Nylok Nut                        | (1)      |
| 78   | -----      | M4 x 50mm Dowel Pin                     | (2)      |
| 84   | -----      | Handle Bar Plug                         | (2)      |
| 85   | -----      | Kickstand Plug                          | (2)      |
| 94   | 31-94-0013 | Throttle Boot                           | (1)      |
| 97   | 05-74-0411 | M3.5 x 16mm Pan Hd. Plastite T-10 Screw | (4)      |
| 100  | 06-81-0167 | M4 x 25mm Pan Hd. T-20 Screw            | (2)      |
| 101  | 05-74-0214 | M4 x 10mm Pan Hd Hex Recess Screw       | (1)      |
| 102  | 06-82-0256 | M5 x 16mm Pan Hd. Plastite Screw        | (8)      |
| 105  | 05-74-0216 | M3 x 10mm Shoulder Head Cap Screw       | (4)      |
| 106  | 05-74-0213 | M5 x 35mm Shoulder Head Cap Screw       | (1)      |
| 122  | 22-68-0026 | Sub-Frame Cover                         | (1)      |
| 123  | -----      | Sub-Frame Low Mount                     | (1)      |
| 125  | 23-66-0112 | On-Off Switch                           | (1)      |
| 128  | 23-94-0452 | Trigger Wire Assembly                   | (1)      |
| 200  | 43-62-0001 | Handle Grip Service Kit                 | (2)      |
| 201  | 14-34-7395 | Handle Bar Service Kit                  | (1)      |
| 206  | 44-94-0027 | Kickstand Mount Service Kit             | (1)      |
| 207  | 44-94-0033 | Kickstand Catch Service Kit             | (1)      |
| 212  | 44-94-0001 | Kickstand Service Kit                   | (1)      |
| 216  | 31-94-0022 | Throttle Connector Housing Service Kit  | (1)      |
| 228  | 31-44-0281 | Complete Handle Bar Service Assembly    | (1)      |
| 233  | 43-40-0032 | Sub-Frame Service Assembly              | (1)      |

# SCREW TORQUE SPECIFICATIONS

|           | FIG. | PART NO.   | DESCRIPTION OF FASTENER                 | WHERE USED                         | SEAT TORQUE          |           |
|-----------|------|------------|-----------------------------------------|------------------------------------|----------------------|-----------|
|           |      |            |                                         |                                    | (kgf-cm)             | (lb-in)   |
| PAGE<br>1 | 15   | 05-74-0209 | M6 x 20mm Hex Head Bolt                 | Sub-Frame Assembly                 | 100±5                | 86.8±4.5  |
|           | 17   | 05-74-0212 | M8 x 35mm Hex Head Bolt                 | Electronics Assembly               | Tighten to gauge     |           |
|           | 70   | 05-55-0038 | 8mm Hex Nut                             | Sub-Frame Assy./Vibration Isolator | 250±12               | 217±10.4  |
| PAGE<br>2 | 14   | 05-74-0217 | .375 x 2.38 Hex Head Bolt               | Edge Clamp/Excitor Housing         | ----                 | ----      |
|           | 16   | 05-74-0211 | M8 x 25mm Hex Head Bolt                 | Excitor Housing                    | 300±5                | 260.4±4.3 |
|           | 40   | 05-74-0207 | M4 x 14mm Pan Head T-15 Screw           | Rotor Bearing Retainer             | 15±2                 | 13±1.7    |
|           | 40   | 05-74-0207 | M4 x 14mm Pan Head T-15 Screw           | Motor Housing                      | 15±2                 | 13±1.7    |
|           | 41   | 05-74-0208 | M5 x 90mm Cap Hd. Hex Recess Screw      | End Cover Cap                      | 50±5                 | 43.4±4.3  |
|           | 50   | 43-87-0033 | Vibration Isolator                      | Excitor Housing                    | Flush to surface     |           |
|           | 69   | 05-55-0036 | Hex Nut                                 | Blade Connection Fastener          | Flush to end of bolt |           |
|           | 86   | 31-92-0052 | M2 x 6mm Pan Hd. Plastite T-6 Screw     | Motor Housing                      | 3±1                  | 2.6±.87   |
|           | 96   | 05-74-0098 | M3 x 12mm Pan Hd. Plastite T-10 Screw   | Connector Support                  | 8±1                  | 7±.87     |
|           | 98   | 05-74-0097 | M3.5 x 10mm Pan Hd. Plastite T-15 Screw | Motor Mount Shroud - Cover         | 10±1                 | 8.7±.87   |
|           | 99   | 06-82-0259 | M4 x 10mm Pan Hd. Plastite T-10 Screw   | End Cover Cap                      | 12±2                 | 10.4±1.7  |
|           | 103  | 05-74-0206 | M5 x 45mm Cap Hd. Hex Recess Screw      | Excitor Housing                    | 100±3                | 86.8±2.6  |
| PAGE<br>3 | 117  | 06-82-2367 | M3 x 38mm Pan Hd. ST T-10 Screw         | Motor Housing                      | 8±1                  | 7±.87     |
|           | 126  | -----      | M2.6 x 10mm Pan Hd. ST T-8 Screw        | Hall Board PCBA                    | 9±1                  | 7.8±.87   |
|           | 87   | 05-88-0087 | M5 x 115mm Pan Hd. Plastite T-20 Screw  | Battery Housing - Left             | 17±2                 | 14.8±1.7  |
|           | 96   | 05-74-0098 | M3 x 12mm Pan Hd. Plastite T-10 Screw   | Wrench Cover                       | 8±1                  | 7±.87     |
|           | 102  | 06-82-0256 | M5 x 16mm Pan Hd. Plastite Screw        | Battery Housing - Left             | 25±3                 | 21.7±2.6  |
|           | 102  | 06-82-0256 | M5 x 16mm Pan Hd. Plastite Screw        | Battery Housing - Right            | 25±3                 | 21.7±2.6  |
|           | 102  | 06-82-0256 | M5 x 16mm Pan Hd. Plastite Screw        | Anderson Connector Clip            | 25±3                 | 21.7±2.6  |
|           | 115  | 05-74-0089 | M3 x 7mm Pan Hd. Phillips ST Screw      | Arming Button/Bluetooth PCBA       | 7±1                  | 6±.87     |
| PAGE<br>4 | 116  | 05-81-0233 | M3 x 6mm Flat Hd. ST T-10 Screw         | Coin Cell Cover                    | 5±1                  | 4.3±.87   |
|           | 118  | 06-82-0029 | M5 x 16mm Pan Hd. ST T-25 Screw         | Pivot Bushing                      | 25±3                 | 21.7±2.6  |
|           | 119  | 06-82-1080 | M3 x 14mm ST T-10 Screw                 | Interface - Left                   | 6.1±1                | 5.2±.87   |
|           | 120  | 06-82-9630 | M3 x 16mm Tamperproof Non-Return Scr.   | Rear Metal Rail/Front Metal Rail   | 8±1                  | 7±.87     |
|           | 40   | 05-74-0207 | M4 x 14mm Pan Head T-15 Screw           | Sub-Frame Cover                    | 15±2                 | 13±1.7    |
|           | 71   | 05-55-0037 | M5 Hex Nylok Nut                        | Long Kickstand Mount               | 15±2                 | 13±1.7    |
|           | 97   | 05-74-0411 | M3.5 x 16mm Pan Hd. Plastite T-10 Screw | Bottom Cover                       | 8±2                  | 7±1.7     |
|           | 100  | 06-81-0167 | M4 x 25mm Pan Hd. T-20 Screw            | Connector Holder - Cover           | 25±2                 | 21.7±1.7  |
| PAGE<br>4 | 101  | 05-74-0214 | M4 x 10mm Pan Hd Hex Recess Screw       | Sub-Frame Cover                    | 25±2                 | 21.7±1.7  |
|           | 102  | 06-82-0256 | M5 x 16mm Pan Hd. Plastite Screw        | Long Kickstand Clamp               | 25±2                 | 21.7±1.7  |
|           | 102  | 06-82-0256 | M5 x 16mm Pan Hd. Plastite Screw        | Control Clamp                      | 25±2                 | 21.7±1.7  |
|           | 105  | 05-74-0216 | M3 x 10mm Shoulder Head Cap Screw       | Handle Grip Clamp                  | 10±1                 | 8.7±.87   |
|           | 106  | 05-74-0213 | M5 x 35mm Shoulder Head Cap Screw       | Long Kickstand Mount               | 15±2                 | 13±1.7    |

## WIRING INSTRUCTIONS



## WIRING INSTRUCTIONS - continued

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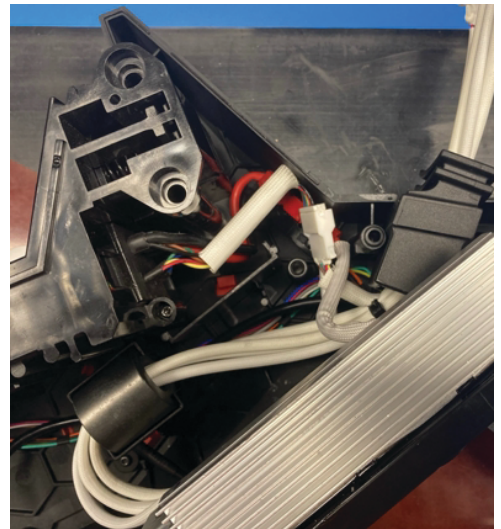


PHASE WIRES  
AND BATTERY  
PLUS/MINUS  
ROUTING



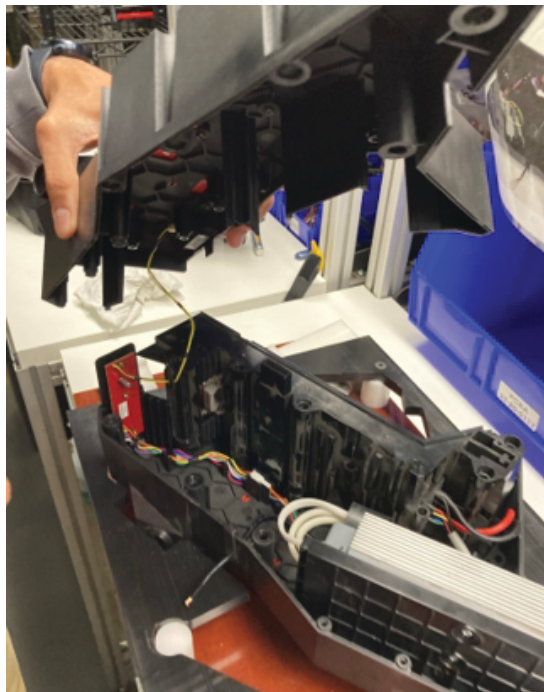
DIELECTRIC  
GREASE  
PLACEMENT

PLACEMENT OF  
BATTERY WIRES



ANDERSON  
CONNECTOR  
CLIP PLACEMENT

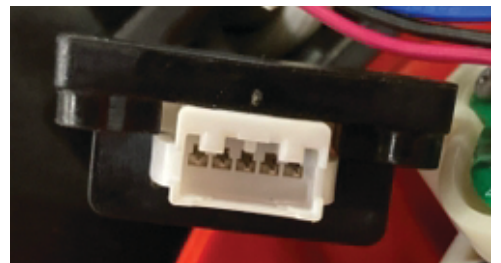
## WIRING INSTRUCTIONS - continued



COIN CELL  
WIRE ROUTING



THROTTLE  
WIRE  
THROUGH  
SUBFRAME



HALL WIRES  
IN PANEL  
MOUNT



PHASE WIRES  
AND HALL WIRES  
CONNECTED

GROMMET  
PLACEMENT  
IN SUBFRAME



## WIRING INSTRUCTIONS - continued

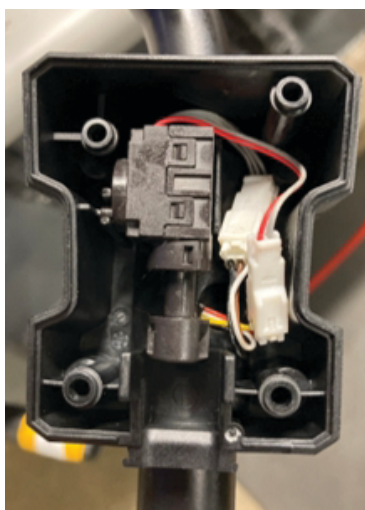
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GROMMET  
LOCATION  
IN  
KNEEPAD



CONNECTOR HOUSING INTERNAL WIRING & PLACEMENT



TRIGGER HOUSING WIRING

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