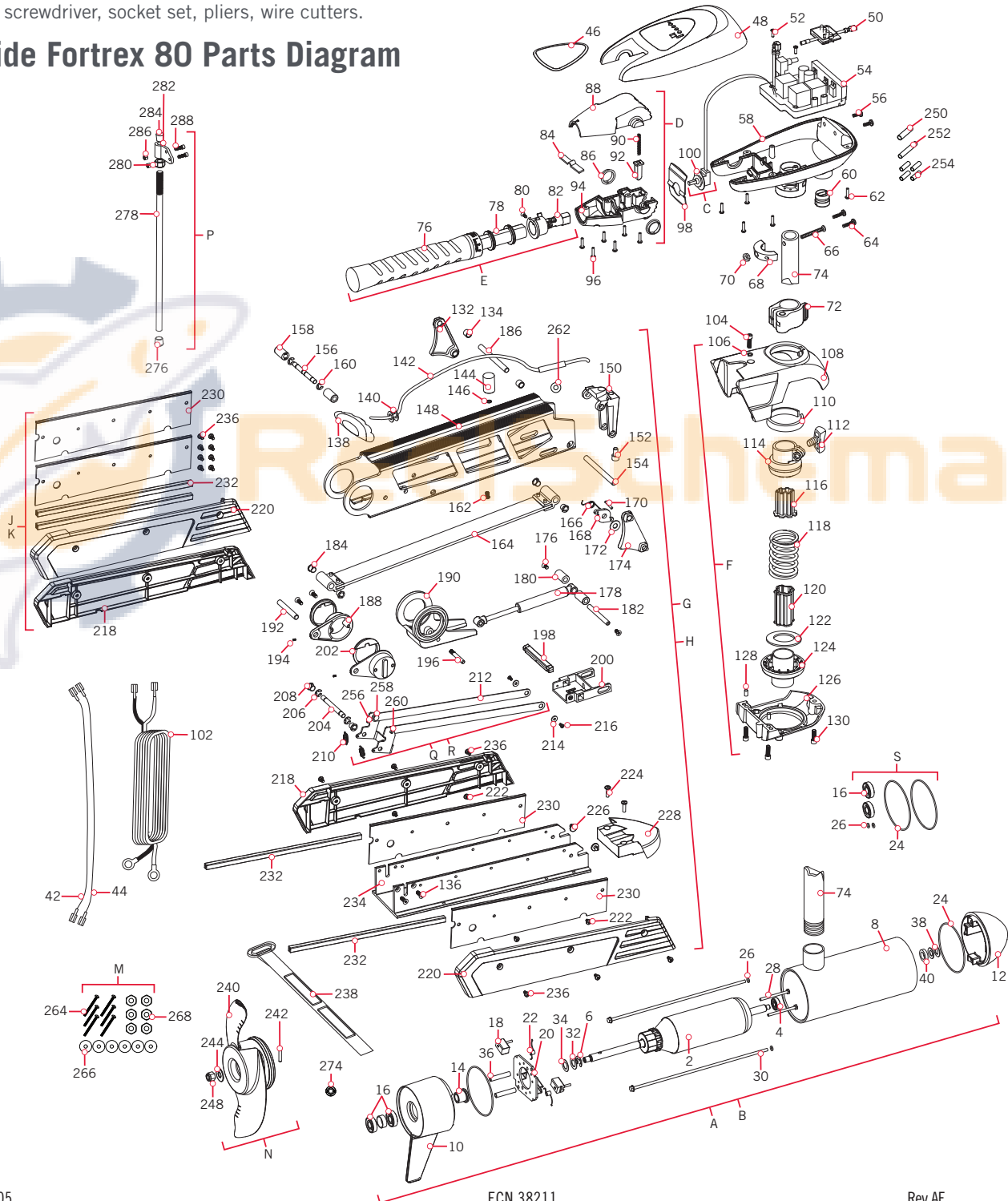


# PARTS DIAGRAM & PARTS LIST

## RIPTIDE FORTREX 80 - 80 LBS THRUST - 24 VOLT - 52"/62" SHAFT

The parts diagram and parts list provides Minn Kota® WEEE compliance disassembly instructions. For more information about where you should dispose of your waste equipment for recycling and recovery and/or your European Union member state requirements, please contact your dealer or distributor from which your product was purchased. Tools required, but not limited to: flat head screwdriver, Phillips screwdriver, socket set, pliers, wire cutters.

### ► Riptide Fortrex 80 Parts Diagram



## PARTS DIAGRAM & PARTS LIST

### ▶ Riptide Fortrex 80 Parts List

| Assembly | Part #    | Description                    | Quantity |
|----------|-----------|--------------------------------|----------|
| A        | 2316225   | MTR ASY 24V 4" 80# SW *52"*    | 1        |
| B        | 2316222   | MTR ASY 24V 4" 80# SW *62"*    | 1        |
| C        | 2068411   | POTENTIOMETER REPLACEMENT KIT  | 1        |
| D        | 2990468   | HANDLE ASSY, VARS              | 1        |
| E        | 2990466   | GRIP ASSY, VARS                | 1        |
| F        | 2991757   | BOWGUARD ASSY SW               | 1        |
| G        | 2991787   | MNT ASM FORTREX SW 80# HC 52"  | 1        |
| H        | 2991788   | MNT ASM FORTREX SW 80# 62"     | 1        |
| J        | 2883943   | SIDE PLATE KIT, SW, SHORT 52"  | 1        |
| K        | 2883933   | SIDE PLATE KIT, SW, LONG 62"   | 1        |
| M        | 2994887   | BAG ASSEMBLY                   | 1        |
| N        | 1378160   | PROPELLER KIT WW2              | 1        |
| P        | 2991925   | BRACKET STABILIZER ASSEMBLY    | 1        |
| Q        | 2773600   | SHORT LATCH STRAP ASSEMBLY     | 1        |
| R        | 2773601   | LONG LATCH STRAP ASSEMBLY      | 1        |
| S        | 2889460   | SEAL AND O-RING KIT            | 1        |
| Item     | Part #    | Description                    | Quantity |
| 2        | 2-100-214 | ARMATURE ASSEMBLY              | 1        |
| 4        | 140-010   | BEARING                        | 1        |
| 6        | 788-040   | RETAINING RING                 | 1        |
| 8        | 2-200-394 | CENTER HOUSING ASSEMBLY        | 1        |
| 10       | 2-300-340 | BRUSH END HOUSING ASSEMBLY     | 1        |
| 12       | 421-376   | PLAIN END HOUSING ASSY. STD    | 1        |
| 14       | 144-017   | FLANGE BEARING                 | 1        |
| 16       | 880-025   | SEAL                           | 2        |
| 18       | 188-094   | BRUSH                          | 2        |
| 20       | 2-600-149 | BRUSH PLATE ASSEMBLY 4.0 *52"* | 1        |
|          | 2-600-134 | BRUSH PLATE ASSEMBLY 4.0 *62"* | 1        |
| 22       | 975-041   | BRUSH SPRING                   | 2        |
| 24       | 701-043   | O-RING, PLAIN END HOUSING      | 1        |
| 26       | 701-009   | O-RING, THRU-BOLT              | 2        |
| 28       | 830-027   | SCREW-BRUSH PLATE              | 2        |
| 30       | 830-094   | THRU-BOLT                      | 2        |
| 32       | 990-051   | WASHER, STEEL                  | 1        |
| 34       | 990-052   | WASHER, NYLATRON               | 1        |
| 36       | 973-025   | SPACER, BRUSH PLATE            | 2        |
| 38       | 992-010   | WASHER, BELLEVILLE             | 2        |
| 40       | 990-045   | SPACER, THRUST                 | 1        |
| 42       | 640-018   | LEADWIRE, BLK 10 AWG *52"*     | 1        |
|          | 640-021   | LEADWIRE, BLK 10 AWG *62"*     | 1        |

| Item | Part #  | Description                    | Quantity |
|------|---------|--------------------------------|----------|
| 44   | 640-123 | LEADWIRE, RED 10 AWG *52"*     | 1        |
|      | 640-126 | LEADWIRE, RED 10 AWG *64"*     | 1        |
| 46   | 2195667 | DECAL, C-BOX COVER 80#         | 1        |
| 48   | 2060296 | C-BOX COVER                    | 1        |
| 50   | 2074081 | BATTERY METER, 24V SW          | 1        |
| 52   | 2043427 | SCREW, #8 X 7/8 SS             | 2        |
| 54   | 2184027 | CONTROL BOARD, 24/36V          | 1        |
| 56   | 2303434 | SCREW, #8-30 X 5/8 SS          | 2        |
| 58   | 2062538 | CONTROL BOX, CAST, SW          | 1        |
| 60   | 2062905 | STRAIN RELIEF                  | 1        |
| 62   | 2303412 | SCREW, #6 X 5/8 SS             | 6        |
| 64   | 2063410 | SCREW, #10-32 X 3/4" CAP SS    | 2        |
| 66   | 2093400 | SCREW, #10-24 X 1-7/8" PPH SS  | 1        |
| 68   | 2061529 | COLLAR-CTRL BOX (SW)           | 1        |
| 70   | 2333101 | NUT, 10-24, NYLOCK, SS         | 1        |
| 72   | 2991521 | CAM LOCK/DEPTH COLLAR ASSY     | 1        |
| 74   | 2002014 | TUBE COMPOSITE 52"             | 1        |
|      | 2002015 | TUBE COMPOSITE 62"             | 1        |
| 76   | ✱       | GRIP HANDLE                    | 1        |
| 78   | 2060015 | BEARING, HANDLE                | 2        |
| 80   | 2063405 | SCREW, #6 PFH SS               | 1        |
| 82   | 2994092 | YOKE / SPIDER ASSY, VARS       | 1        |
| 84   | 2302742 | SPRING, DETENT, OFF            | 1        |
| 86   | 2060005 | BEARING, HANDLE PIVOT          | 2        |
| 88   | 2060900 | HANDLE PIVOT, TOP              | 1        |
| 90   | 2302745 | SPRING, RELEASE BUTTON         | 1        |
| 92   | 2063700 | BUTTON, RELEASE                | 1        |
| 94   | 2060905 | HANDLE PIVOT, BOTTOM           | 1        |
| 96   | 2303412 | SCREW, #6 X 5/8 SS             | 6        |
| 98   | 2062715 | SPRING, HANDLE PIVOT           | 1        |
| 100  | 2061700 | WASHER, POT HOLDER             | 1        |
| 102  | 2992521 | LEADWIRE ASSY                  | 1        |
| 104  | 2283414 | SCREW-5/16-18 SHCS, RIE COATED | 1        |
| 106  | 2281700 | WASHER, 5/16 HIGH COLLAR LOCK  | 1        |
| 108  | ✱       | BOWGUARD TOP, SW               | 1        |
| 110  | 2280001 | BEARING, BOWGUARD TOP          | 1        |
| 112  | 2011366 | KNOB, SS                       | 1        |
| 114  | 2261525 | SPRING SLEEVE, UPPER           | 1        |
| 116  | 2264702 | TUBE INSERT, UPPER             | 1        |
| 118  | 2262705 | SPRING, BOWGUARD               | 1        |
| 120  | 2282000 | TUBE INSERT, LOWER             | 1        |
| 122  | 2281525 | SPACER, LOWER SPRING           | 1        |
| 124  | 2281520 | SPRING SLEEVE, LOWER           | 1        |

✱ This part is included in an assembly and cannot be ordered individually.

▲ Not shown on Parts Diagram.

## PARTS DIAGRAM & PARTS LIST

| Item | Part #  | Description                          | Quantity |
|------|---------|--------------------------------------|----------|
| 126  | ✖       | BOWGUARD BOTTOM                      | 1        |
| 128  | 2282612 | PIN-SPRING, 5/16", SS                | 2        |
| 130  | 2283413 | SCREW, 3/8-16 SHCS, RIE              | 3        |
| 132  | 2280800 | LINK, BOWGUARD MOUNT, LEFT           | 1        |
| 134  | 2287303 | BUSHING, UPPER PINS                  | 2        |
| 136  | 2283411 | SCREW, 1/4-20 X 1" FHS RIE TORX      | 4        |
| 138  | 2880401 | PULL GRIP ASSEMBLY                   | 1        |
| 140  | 2261732 | WASHER                               | 2        |
| 142  | 2251601 | ROPE ASSEMBLY                        | 1        |
| 144  | 2281516 | SPACER, INNER ARM                    | 1        |
| 146  | 2281702 | WASHER, LOCK 1/4                     | 1        |
| 148  | 2284202 | OUTER ARM, SHORT, 52"                | 1        |
|      | 2284212 | OUTER ARM, LONG, 62"                 | 1        |
| 150  | 2992322 | ROPE GUIDE ASSEMBLY                  | 1        |
| 152  | 2281530 | INSERT, THREADED                     | 1        |
| 154  | 2282608 | PIN, 7/16 X 5 5/32                   | 1        |
| 156  | 2282602 | PIN, 3/8 X 3 3/4                     | 1        |
| 158  | 2261505 | SPACER                               | 2        |
| 160  | 2263011 | E-RING, 3/8 SHAFT                    | 2        |
| 162  | 2223418 | SCREW, 1/4-20 X 1/2 BHCS             | 1        |
| 164  | 2993819 | INNER ARM ASSEMBLY, SHORT MOUNT, 52" | 1        |
|      | 2993821 | INNER ARM ASSEMBLY, LONG MOUNT, 62"  | 1        |
| 166  | 2042711 | SPRING, TORSION                      | 1        |
| 168  | 2283620 | LATCH, SAFETY                        | 1        |
| 170  | 2282611 | SPRING, SAFETY LATCH                 | 1        |
| 172  | 2281704 | WASHER 7/16 NYLON                    | 1        |
| 174  | 2280805 | LINK, BOWGUARD MOUNT, RIGHT          | 1        |
| 176  | 2283410 | SCREW 1/4-20 X 1/2 PFH               | 2        |
| 178  | 2288403 | GAS SPRING, 80#, SHORT MOUNT         | 1        |
|      | 2288404 | GAS SPRING, 80#, LONG MOUNT          | 1        |
| 180  | 2281710 | SPACER, GAS SPRING                   | 2        |
| 182  | 2282610 | PIN, UPPER, SHOCK                    | 1        |
| 184  | 2280005 | BEARING, NYLINER 7/16"               | 4        |
| 186  | 2282600 | PIN, 7/16 X 4 7/8                    | 1        |
| 188  | 2281932 | BRACKET, REAR PIVOT                  | 2        |
| 190  | 2281501 | YOKE, SHOCK MOUNT                    | 1        |
| 192  | 2282606 | PIN, 7/16 X 4 1/2                    | 1        |
| 194  | 2283402 | SCREW, SET, 6-32 X 1/4               | 2        |
| 196  | 2282604 | PIN, KNURLED 5/16 X 2                | 1        |
| 198  | 2283615 | LATCH BAR                            | 1        |
| 200  | 2283610 | BRACKET - LATCH/STRAP, ROPE PULL     | 1        |
| 202  | 2287300 | BUSHING, REAR PIVOT                  | 2        |
| 204  | 2282602 | PIN, 3/8 X 3 3/4                     | 1        |

| Item | Part #    | Description                       | Quantity |
|------|-----------|-----------------------------------|----------|
| 206  | 2263011   | E-RING, 3/8 SHAFT                 | 2        |
| 208  | 2280008   | BEARING, IGLIDE                   | 2        |
| 210  | 2282720   | SPRING, EXTENSION                 | 2        |
| 212  | ✖         | LATCH STRAP ASSEMBLY, SHORT MOUNT | 1        |
|      | ✖         | LATCH STRAP ASSEMBLY, LONG MOUNT  | 1        |
| 214  | 2261732   | WASHER 8, NYLON                   | 2        |
| 216  | 2373450   | SCREW 8-18 X 3/8                  | 2        |
| 218  | 2283938   | SIDEPLATE, LEFT, SHORT, SW 52"    | 1        |
|      | 2283948   | SIDEPLATE, LEFT, LONG SW 62"      | 1        |
| 220  | 2283933   | SIDEPLATE, RIGHT, SHORT, SW 52"   | 1        |
|      | 2283943   | SIDEPLATE, RIGHT, LONG SW 62"     | 1        |
| 222  | 2323403   | SCREW-1/4-20 X .375 MCH SS CRPH   | 4        |
| 224  | 2073408   | SCREW 1/4-20 X 7/8                | 2        |
| 226  | 2286700   | PLUG, SPACER                      | 2        |
| 228  | 2283900   | RAMP, MOTOR                       | 1        |
| 230  | 2283631   | RAIL, MACH., MOTOR REST           | 2        |
| 232  | 2286400   | COVER, RAIL, MOTOR REST (SUB)     | 2        |
| 234  | 2281903   | BASE-EXTRUSION, SHORT, MACH 52"   | 1        |
|      | 2281913   | BASE-EXTRUSION, LONG, MACH 62"    | 1        |
| 236  | 2323405   | SCREW 1/4-20 X 1/2                | 8        |
| 238  | 2263806   | STRAP HOLD DOWN                   | 1        |
| 240  | 2331160   | PROPELLER WW2                     | 1        |
| 242  | 2262658   | DRIVE PIN, LARGE 1" X 3/16" SS    | 1        |
| 244  | 2091701   | WASHER, PROP, LARGE               | 1        |
| 248  | 2093101   | NUT-PROP, NYLOCK, LG 3/8 SS       |          |
| 250  | 2305415   | SHRINK TUBE .472 X 2.25"          | 1        |
| 252  | 2305410   | SHRINK TUBE .315 X 2.25           | 1        |
| 254  | 2305403   | SHRINK TUBE .500 X 1.0" ADHSV     | 4        |
| 256  | ✖         | BRACKET-LATCH                     | 1        |
| 258  | ✖         | RIVET, SHLDR 5/16 X .159 SS       | 2        |
| 260  | ✖         | BEARING NYLINER 5/16"             | 2        |
| 262  | 2151700   | WASHER-EYESHAFT                   | 1        |
| 264  | 2263468   | SCREW-1/4-20 X 2.5" 8/5 PPH       | 6        |
| 266  | 2263103   | NUT-1/4/20 NYLOCK SS              | 6        |
| 268  | 2261713   | WASHER-1/4 FLAT 18-8 SS           | 6        |
| 270  | 2287101 ▲ | MANUAL, RT FORTREX                | 1        |
| 272  | 2284905 ▲ | PARTS LIST RT SF80/101# 52/62"    | 1        |
| 274  | 2198401   | ANODES, ZINC 4.0" LWR UNIT        | 1        |
| 276  | 2265100   | BUMPER (CRUTCH TIP)               | 1        |
| 278  | 2263624   | ANODIZED ALUMINUM 3/4" ROD, 22"   | 1        |
| 280  | 2263107   | HEX NUT 3/4-10 NYLON              | 1        |
| 282  | 2281929   | STABILIZER ARM BRACKET            | 1        |
| 284  | 2260221   | VINYL CAP                         | 1        |
| 286  | 2223100   | NUT-5/16-18 NYLOCK S/S            | 2        |
| 288  | 2263422   | SCREW - 5/16-18 X 1" SHCS SS      | 2        |

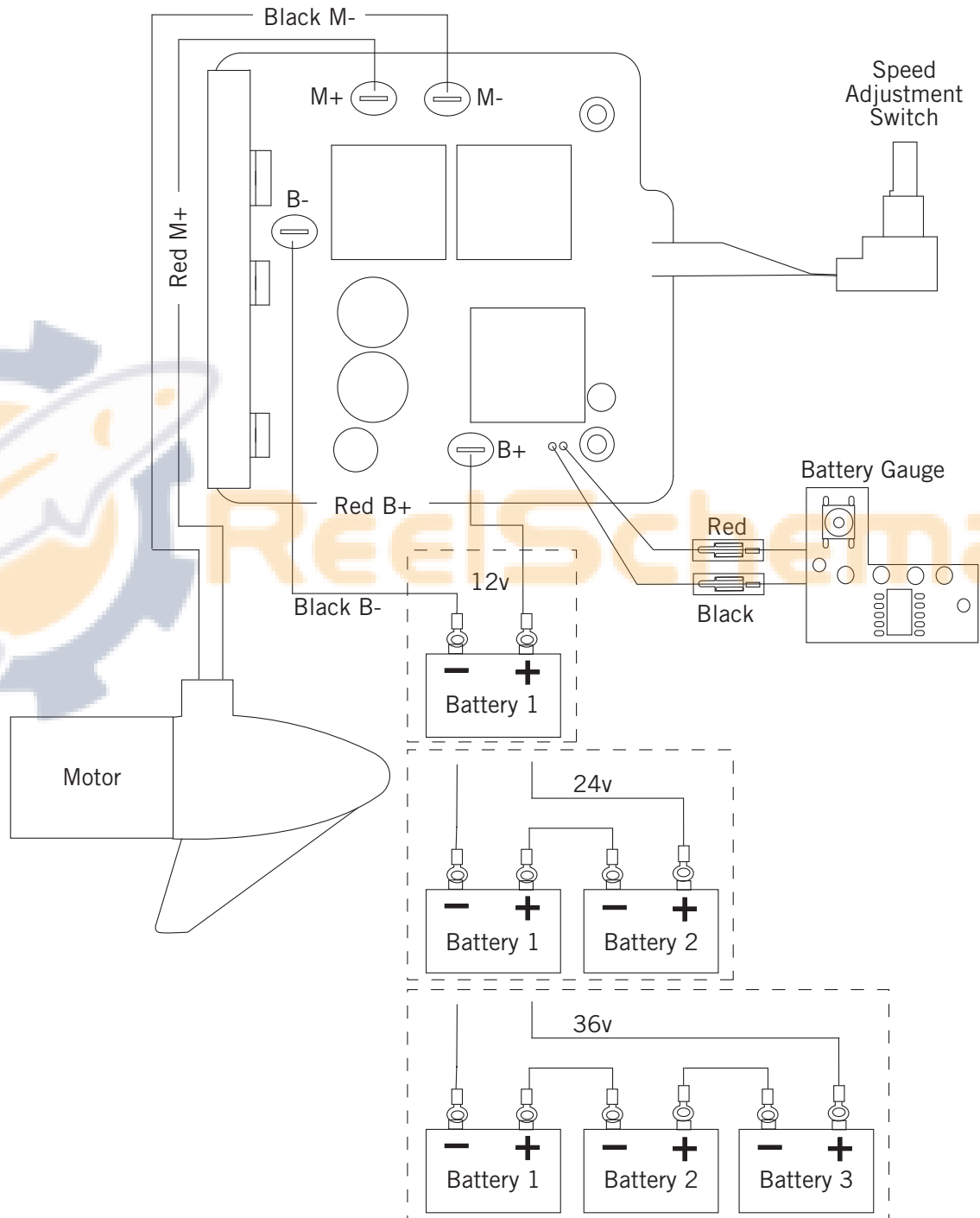
✖ This part is included in an assembly and cannot be ordered individually.

▲ Not shown on Parts Diagram.

# MOTOR WIRING DIAGRAM

## RIPTIDE FORTREX

The following Motor Wiring Diagram applies to all Riptide Fortrex Hand Control models.



**NOTICE:** This is a multi-voltage diagram. Double-check your motor's voltage for proper connections. Over-Current Protection Devices are not shown in this illustration.