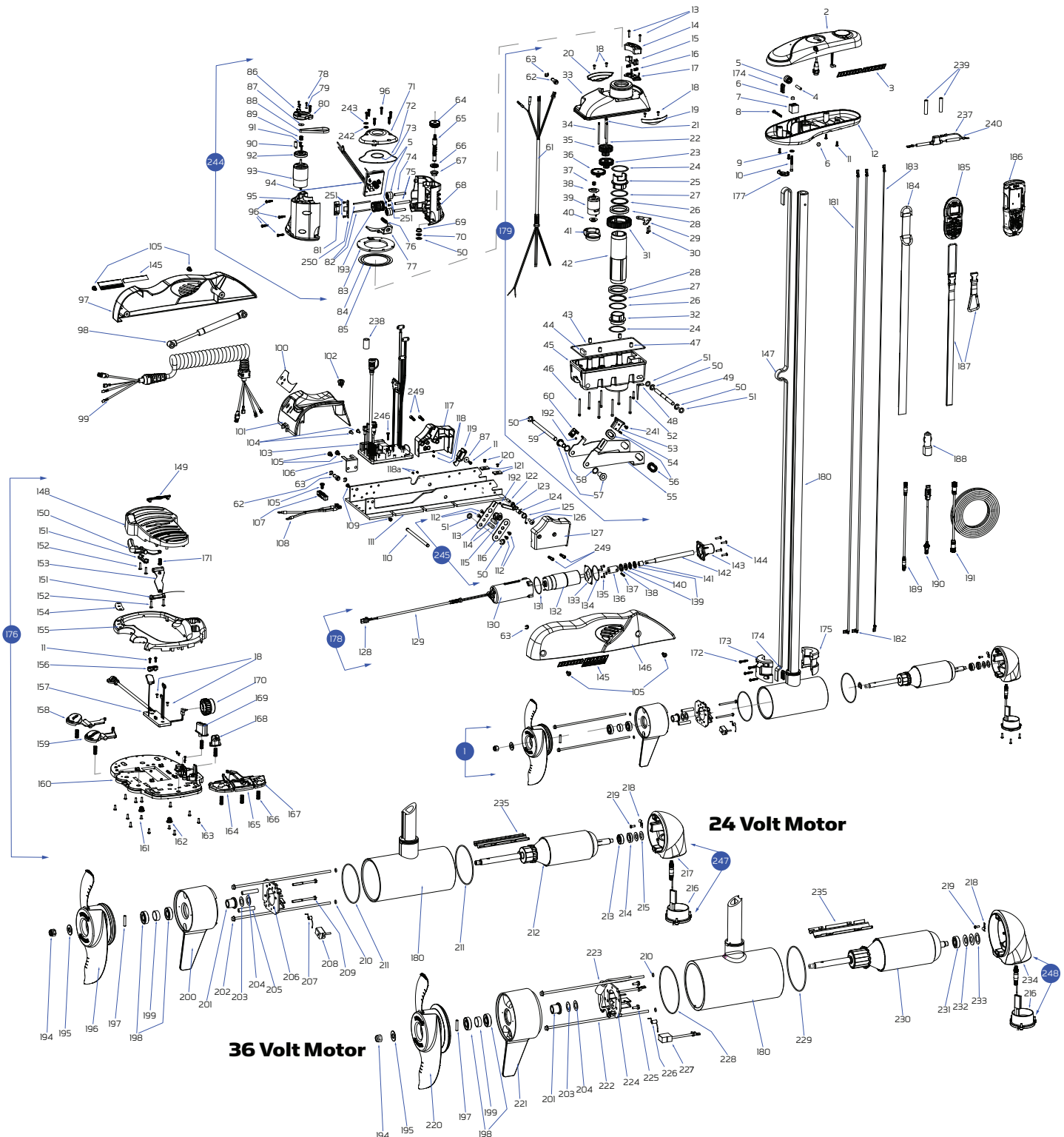


# PARTS DIAGRAM

for use with "Q" serial numbers 2-year warranty

## ULTERRA

80/112 LBS THRUST - 24/36 VOLT - 56/52AMPS - 45"/60"/72" SHAFT



# PARTS LIST

## ULTERRA

**80/112 LBS THRUST - 24/36 VOLT - 45"/60"/72" SHAFT**

| ITEM | QTY | PART NUMBER | DESCRIPTION                          |
|------|-----|-------------|--------------------------------------|
| 1    | 1   | 2777016     | 24 V MOTOR 45" FW                    |
| 1    | 1   | 2777015     | 24V MOTOR 60" FW                     |
| 1    | 1   | 2777086     | 36V MOTOR 45" FW                     |
| 1    | 1   | 2777085     | 36V MOTOR 60" FW                     |
| 1    | 1   | 2777087     | 36V MOTOR 72" FW                     |
| 2    | 1   | 2990206     | HEAD ASSY, FW, IPILOT 1.5            |
| 2    | 1   | 2990208     | HEAD ASSY, FW, IPILOT LINK           |
| 3    | 2   | 2205511     | DECAL, CONTROL BOX SIDE              |
| 4    | 1   | 2202635     | PIN-DOWEL, 1/4" OD SS                |
| 5    | 3   | *           | PULLEY, BELT, TOP                    |
| 6    | 2   | 2333101     | NUT-HEX #10-24                       |
| 7    | 1   | 2202800     | BLOCK, BELT                          |
| 8    | 1   | 2383407     | SCREW-#10-24 X 2" PPH ZINC           |
| 9    | 1   | 2201721     | WASHER, #10 SAE, SS                  |
| 10   | 1   | 2203411     | SCREW-#10-24, SHCS, SS               |
| 11   | 6   | 2372100     | SCREW, #8-18 X 5/8 THD               |
| 12   | 1   | 2202506     | CONTROL BOX BOTTOM                   |
| 13   | 2   | 2203406     | SCREW, #6-32 X 0.75 PPH, SS          |
| 14   | 1   | *           | BLOCK-BRUSH, SLIPRING                |
| 15   | 2   | *           | BRUSH SHUNT ASSY                     |
| 16   | 4   | *           | SPRING COMPRESSION, BRUSH            |
| 17   | 1   | *           | INSULATOR, BLOCK-BRUSH               |
| 18   | 6   | 2332103     | SCREW-#6-20 X 3/8 THD, SS            |
| 19   | 1   | 2205905     | RIGHT STEERING ADAPTER               |
| 20   | 1   | 2205900     | LEFT STEERING ADAPTER                |
| 21   | 1   | 2302615     | SHAFT-GEAR, INTERMED. CLUSTER        |
| 22   | 1   | 2302620     | SHAFT-GEAR, THIRD CLUSTER            |
| 23   | 1   | 2302250     | GEAR & PINION, DR. HSG, STAGE 3      |
| 24   | 2   | 2321704     | WASHER-THRUST, STEERING              |
| 25   | 1   | 2201510     | COLLAR-DRIVE, OUTPUT TUBE            |
| 26   | 2   | 2324608     | O-RING, 224, PD PRO STEERING HOUSING |
| 27   | 2   | 2321720     | SHIM, O-RING                         |
| 28   | 2   | 2327308     | BEARING-BALL, SEALED, 6809-2RS       |
| 29   | 1   | 2201920     | BRACKET-SENSOR, STEERING HSG         |
| 30   | 2   | 2303412     | SCREW-#6-20 X 5/8 SELF TAP           |
| 31   | 1   | 2772200     | GEAR-OUTPUT                          |
| 32   | 1   | 2321510     | COLLAR-DRIVE, BOTTOM                 |
| 33   | 1   | *           | BLACK STEERING HSG COVER             |
| 34   | 1   | *           | SHAFT-GEAR, FIRST CLUSTER            |
| 35   | 1   | 2302255     | GEAR & PINION, STAGE 4               |
| 36   | 1   | 2302245     | GEAR & PINION, STAGE 2               |
| 37   | 1   | 2302240     | GEAR & PINION, STAGE 1               |
| 38   | 1   | 2300265     | CAP-MOTOR, PLASTIC                   |
| 39   | 1   | *           | MOTOR-STEERING PD/AP 36V             |
| 39   | 1   | *           | MOTOR-STEERING PD/AP 24V             |
| 40   | 1   | 2300260     | CAP-SPACER, PLASTIC                  |
| 41   | 1   | 2328610     | CRADLE- MOTOR                        |
| 42   | 1   | 2322030     | TUBE-OUTPUT, MACHINED                |
| 43   | 1   | 2324604     | O-RING, CASE SEAL                    |
| 44   | 1   | 2308601     | BREATHER FILTER, DR. HSG             |
| 45   | 1   | *           | STEERING HSG, BTM, BLK               |
| 46   | 7   | 2323408     | SCREW-#8-32 X 2.0 SHCS SS            |
| 47   | 4   | *           | PIN-ROLL 5/16" X 1/2"                |
| 48   | 2   | 2322702     | SPRING, LATCH PIN SS                 |
| 49   | 1   | 2202626     | PIN-LATCH                            |
| 50   | 5   | *           | E-RING 3/8 DIA. SHAFT                |
| 51   | 3   | 2321702     | WASHER-FLAT .375 NYLON               |
| 52   | 1   | 2323410     | SCREW-#8-32 X .75 SHCS SS            |

| ITEM | QTY | PART NUMBER | DESCRIPTION                             |
|------|-----|-------------|-----------------------------------------|
| 53   | 1   | 2770100     | KNOB, TILT RELEASE                      |
| 54   | 1   | *           | SCREW-#6-32 X .625" SET SS              |
| 55   | 1   | 2201911     | BRACKET, TILT, ZP                       |
| 56   | 2   | 2207305     | BUSHING, LATCH PIN                      |
| 57   | 2   | 2207310     | BUSHING, STRG HSG PIVOT                 |
| 58   | 2   | 2201730     | WASHER-FLAT, .56 ID NYLON               |
| 59   | 1   | 2202601     | PIN-PIVOT, DRIVE HOUSING, SS            |
| 60   | 1   | 2778601     | HOLDER-MAGNET                           |
| 61   | 1   | *           | LEADWIRE, STEERING MTR, 8 COND.         |
| 62   | 2   | 2202902     | STANDOFF, OIL DAMPENER                  |
| 63   | 2   | 2263006     | E-CLIP, 5/16                            |
| 64   | 1   | *           | PULLEY, TRIM JACKSHAFT                  |
| 65   | 1   | *           | WORM SHAFT ASSY W/ PULLEY               |
| 66   | 1   | *           | BEARING-THRUST, NEEDLE                  |
| 67   | 1   | *           | BUSHING, TRIM, TOP                      |
| 68   | 1   | *           | HOUSING-TRIM, GEAR SIDE                 |
| 69   | 1   | *           | BUSHING, TRIM, BOTTOM                   |
| 70   | 1   | *           | WASHER-THRUST, 3/8"                     |
| 71   | 1   | 2206410     | COVER, TRIM HOUSING                     |
| 72   | 1   | 2204601     | O-RING, TRIM HOUSING                    |
| 73   | 1   | 2204600     | O-RING, TRIM HSG COVER                  |
| 74   | 2   | *           | PIN, BELT PULLEY                        |
| 75   | 1   | *           | PIN, 2"X1/4"                            |
| 76   | 1   | *           | SPRING, 5/16" OD, SS                    |
| 77   | 1   | *           | HANDLE, TRIM HSG RELS, ZP               |
| 78   | 3   | 2053422     | SCREW-M3-.5 X 10 PPH, ZP                |
| 79   | 3   | 2051710     | LOCKWASHER-SPLIT, 3MM, ZP               |
| 80   | 1   | *           | PLATE, MOTOR                            |
| 81   | 1   | *           | BLOCK, TUBE DRIVE                       |
| 82   | 2   | *           | PIN-DOWEL, 1/8"                         |
| 83   | 1   | *           | CARRIER, SLIPRING CONTACTS              |
| 84   | 1   | *           | CONTACT, SLIPRING SMALL                 |
| 85   | 1   | *           | CONTACT, SLIPRING LARGE                 |
| 86   | 1   | 2053420     | SCREW-SET-#8-32 X 1/4" SS               |
| 87   | 1   | *           | WASHER-#6, .625 OD                      |
| 88   | 1   | 2200810     | BELT-TRIM                               |
| 89   | 1   | *           | PULLEY, LIFT MOTOR, MACHINED            |
| 90   | 1   | 2058411     | TENSIONER-BELT                          |
| 91   | 2   | *           | SCREW-M4 X 10 PPH, ZP                   |
| 92   | 1   | *           | PLATE-ADAPTER, LIFT MOTOR               |
| 93   | 1   | *           | MOTOR, TRIM                             |
| 94   | 1   | *           | BOARD ASSY, WIRELESS TRIM               |
| 94   | 1   | *           | BOARD ASSY, WIRELESS TRIM (EUROPE)      |
| 95   | 1   | *           | HOUSING-TRIM, MOTOR SIDE                |
| 96   | 11  | 3393481     | SCREW, #10X.75 HI-LQ, SS, PPH           |
| 97   | 1   | 2203905     | SIDEPLATE, LEFT                         |
| 98   | 1   | 2208800     | DAMPER, HYBRID, 80#                     |
| 98   | 1   | 2208802     | DAMPER, HYBRID, 112#                    |
| 99   | 1   | 2991272     | COIL CORD ASSY 54/60" U. SONAR          |
| 99   | 1   | 2991276     | COIL CORD 72"                           |
| 100  | 1   | 2205600     | DECAL, B. METER/CON/PWR FW, BLK         |
| 101  | 1   | 2206510     | HOUSING-CONTROL, BLACK                  |
| 102  | 1   | 2202910     | STRAIN RLF, HEYCO SR 6N3-4              |
| 103  | 1   | 2774080     | MAIN CONTROL BOARD, 24V, 60", N AMERICA |
| 103  |     | 2774081     | MAIN CONTROL BOARD, 24V, 45", N AMERICA |
| 103  |     | 2774082     | MAIN CONTROL BOARD, 36V, 60", N AMERICA |
| 103  |     | 2774083     | MAIN CONTROL BOARD, 36V, 45", N AMERICA |
| 103  |     | 2774091     | MAIN CONTROL BOARD, 36V, 72", N AMERICA |

\*Item is part of an assembly and is listed for reference only. Item cannot be ordered separately. Refer to "Service Kits" section for kit part number.

†This is a service kit and includes multiple parts. Refer to "Service Kits" section for complete part listing.

# ULTERRA

## 80/112 LBS THRUST - 24/36 VOLT - 45"/60"/72" SHAFT

| ITEM | QTY | PART NUMBER | DESCRIPTION                          |
|------|-----|-------------|--------------------------------------|
| 103  |     | 2774084     | MAIN CONTROL BOARD, 24V, 60", EUROPE |
| 103  |     | 2774085     | MAIN CONTROL BOARD, 24V, 45", EUROPE |
| 103  |     | 2774086     | MAIN CONTROL BOARD, 36V, 60", EUROPE |
| 103  |     | 2774087     | MAIN CONTROL BOARD, 36V, 45", EUROPE |
| 104  | 2   | 2323406     | SCREW-#10-24 X .50 CRPH SS           |
| 105  | 7   | 2323404     | SCREW-1/4-20 X 1/2" T-L ZP           |
| 106  | 1   | 2200821     | CLIP-CORD, ZP                        |
| 107  | 1   | 2321310     | STRAIN RELIEF                        |
| 108  | 1   | 2090651     | LEADWIRE, 10 GA                      |
| 109  | 2   | 2383447     | SCREW-#10-32 X 3/8" PPH SS           |
| 110  | 1   | 2202606     | PIN, ACTUATOR, ZP                    |
| 111  | 1   | 2201901     | BASE, MACHINED, FW                   |
| 112† | 4   | 2203410     | SCREW #10-32 X .5"                   |
| 113† | 1   | 2204201     | ARM-LIFT, INNER, ZP                  |
| 114† | 2   | 2202901     | STANDOFF, LIFT ARM                   |
| 115† | 1   | 2203100     | NUT, TILT MOTOR                      |
| 116† | 1   | 2204206     | ARM-LIFT, OUTER, ZP                  |
| 117  | 1   | 2203916     | RAMP-MOTOR, LEFT 80#                 |
| 117  | 1   | 2203915     | RAMP-MOTOR, LEFT 112#                |
| 118  | 10  | 2373440     | SCREW-#4-24 X 1/4 PHCR SS TY B       |
| 118a | 2   | 2053411     | SCREW-#4-40 X 1/4 PPH ZP             |
| 119  | 1   | 2773700     | PLUNGER, RAMP                        |
| 120  | 2   | 2203420     | SCREW #10-24 X 5/16 PFH              |
| 121  | 2   | 2205105     | PAD, STOP                            |
| 122  | 1   | 2262632     | PIN-SPRING 1/4" X 5/8" SS            |
| 123  | 1   | 2777900     | CAM, PIN SENSOR                      |
| 124  | 1   | 2201702     | SPACER, PIN SENSOR                   |
| 125  | 1   | 2042711     | SPRING-TORSION, SS                   |
| 126  | 1   | 9280710     | HDW SCR 1/4 - 20 X 7/8 TRUSS PHIL    |
| 127  | 1   | 2203911     | RAMP-MOTOR, RIGHT, 80#               |
| 127  |     | 2203910     | RAMP-MOTOR, RIGHT, 112#              |
| 128  | 1   | *           | HOUSING, CONNECTOR WPJ               |
| 129  | 1   | *           | LEADWIRE, TILT MOTOR                 |
| 130  | 1   | *           | COVER, TILT ACTUATOR                 |
| 131  | 1   | *           | O-RING, TILT, LARGE                  |
| 132  | 1   | *           | MOTOR, STOW/DEPLOY                   |
| 133  | 1   | *           | MOUNTING PLATE, TILT MOTOR           |
| 134  | 1   | *           | O-RING, TILT, SMALL                  |
| 135  | 4   | *           | SCREW-M4 X 8, SS                     |
| 136  | 1   | *           | COUPLER, STW/DPLY ACTUATOR           |
| 137  | 1   | *           | SPRING PIN, 5MM X 20MM               |
| 138  | 1   | *           | SEAL, TILT MOTOR                     |
| 139  | 2   | *           | WASHER-THRUST, TILT MOTOR            |
| 140  | 1   | *           | BEARING-THRUST, TILT MOTOR           |
| 141  | 1   | *           | SPACER, SHAFT                        |
| 142  | 1   | *           | SHAFT, STOW/DEPLOY, SS               |
| 143  | 1   | *           | COVER-NOSE, TILT ACTUATOR            |
| 144  | 4   | *           | SCREW-#8-18 X 5/8" PPH               |
| 145  | 2   | 2205510     | DECAL, SIDEPLATE, FW                 |
| 146  | 1   | 2203900     | SIDEPLATE, RIGHT                     |
| 147  | 1   | 2770816     | BELT-LIFT 45"                        |
| 147  |     | 2770818     | BELT-LIFT 60"                        |
| 147  |     | 2770819     | BELT-LIFT 72"                        |
| 148  | 1   | 2324400     | PEDAL, HEEL/TOE FOOT PEDAL           |
| 149  | 1   | 2326710     | PLUG, FOOT PEDAL                     |
| 150  | 1   | 2323710     | BUTTON, MOM LEFT, FT PEDAL           |
| 151  | 2   | 2321300     | CLAMP-LEFT, FT PEDAL                 |
| 152  | 4   | 2223430     | SCREW-#8 X 3/4 PPH                   |
| 153  | 1   | 2328600     | FLEX FINGER, FOOT PEDAL              |
| 154  | 1   | 2205605     | DECAL, 3 INDICATORS                  |
| 155  | 1   | *           | COVER, HEEL TOE FOOT PEDAL           |
| 156  | 1   | 2322900     | STRAIN RELIEF, FOOT PEDAL            |
| 157  | 1   | *           | PCB ASSY, FOOT PEDAL                 |
| 158  | 1   | *           | BUTTON, AP, FT PEDAL                 |

| ITEM | QTY | PART NUMBER | DESCRIPTION                             |
|------|-----|-------------|-----------------------------------------|
| 159  | 1   | *           | BUTTON, MOM/CON, FT PEDAL               |
| 160  | 1   | *           | BASE PLATE                              |
| 161  | 2   | 2323420     | SCREW, #8-18 3/8 PFH SS                 |
| 162  | 2   | 2322706     | SPRING-BARREL SS                        |
| 163  | 11  | 2301310     | SCREW, #8-18 X 1/2" SS                  |
| 164  | 1   | *           | BUTTON, LFT STR W/ TRIM UP ARROW        |
| 165  | 1   | *           | BUTTON, MOMENTARY/STOW-DEPLOY           |
| 166  | 7   | *           | SPRING, LARGE SHORT SS                  |
| 167  | 1   | *           | BUTTON, RGT STR W/ TRIM UP ARROW        |
| 168  | 1   | *           | BUTTON, SPOT LOCK                       |
| 169  | 1   | *           | BUTTON, MODE                            |
| 170  | 1   | *           | KNOB-SPEED, FOOT PEDAL                  |
| 171  | 1   | 2322714     | SPRING, MOM ASSIST SS                   |
| 172  | 4   | 3393480     | SCREW-#10 X 1.0" PPH HI-LO SS           |
| 173  | 1   | 2201505     | COLLAR, BELT CLAMP                      |
| 174  | 2   | 2200800     | BELT-RACK, LOWER                        |
| 175  | 1   | 2201500     | COLLAR, CLAMP                           |
| 176  | 1   | 2994740     | FOOT PEDAL ASSY                         |
| 177  | 1   | 2224700     | PLUG INSERT (PILOT)                     |
| 177  |     | 2224704     | PLUG INSERT (PILOT LINK)                |
| 178† | 1   | 2997813     | TILT MOTOR ASSY                         |
| 179† | 1   | 2776501     | STEERING HOUSING ASSY 24 V              |
| 179† | 1   | 2776503     | STEERING HOUSING ASSY 36 V              |
| 180  | 1   | 2777098     | CTR HSG ASSY, CB, 80#, FW, W/TUBE, 45"  |
| 180  | 1   | 2777099     | CTR HSG ASSY, CB, 80#, FW, W/TUBE, 60"  |
| 180  | 1   | 2777248     | CTR HSG ASSY, CB, 112#, FW, W/TUBE, 45" |
| 180  | 1   | 2777249     | CTR HSG ASSY, CB, 112#, FW, W/TUBE, 60" |
| 180  | 1   | 2777250     | CTR HSG ASSY, CB, 112#, FW, W/TUBE, 72" |
| 181  | 1   | 640-118     | MOTOR WIRE, RED, 80#, 45"               |
| 181  | 1   | 640-132     | MOTOR WIRE, RED, 112#, 45"              |
| 181  | 1   | 640-126     | MOTOR WIRE, RED, 80#, 60"               |
| 181  | 1   | 640-135     | MOTOR WIRE, RED, 112#, 60"              |
| 181  | 1   | 640-149     | MOTOR WIRE, RED, 112#, 72"              |
| 182  | 1   | 640-027     | MOTOR WIRE, BLACK, 80#, 45"             |
| 182  | 1   | 640-017     | MOTOR WIRE, BLACK, 112#, 45"            |
| 182  | 1   | 640-022     | MOTOR WIRE, BLACK, 80#, 60"             |
| 182  | 1   | 640-045     | MOTOR WIRE, BLACK, 112#, 60"            |
| 182  | 1   | 640-049     | MOTOR WIRE, BLACK, 112#, 72"            |
| 183  | 1   | 640-315     | BONDING WIRE, BROWN, US2.0, 45"         |
| 183  | 1   | 640-316     | BONDING WIRE, BROWN, US2.0, 60"         |
| 183  | 1   | 640-317     | BONDING WIRE, BROWN, US2.0, 72"         |
| 184  | 1   | 2203800     | STRAP, EMERGENCY                        |
| 185  | 1   | 2994171     | REMOTE ASSY, PILOT 15                   |
| 186  | 1   | 2994180     | REMOTE ASSY, PILOT LINK *LINK ONLY*     |
| 187  | 1   | 2370817     | LANYARD, REMOTE W/ CARABEENER           |
| 188  | 1   | 2375901     | ADAPTER, USB DC POWER *LINK ONLY*       |
| 189  | 1   | 2211415     | CABLE-EXTENSION, PD/AP 110"             |
| 190  | 1   | 2373241     | CABLE, USB REMOTE CHARGER *LINK ONLY*   |
| 191  | 1   | 490389-1    | CABLE, ETHERNET, 30' * LINK ONLY*       |
| 192  | 9   | *           | 187 X .125 MAGNET                       |
| 193  | 1   | *           | GEAR/PULLEY-WORM CLUSTER ASSY           |
| 194  | 1   | 2093101     | NUT-PROP, NYLOCK, SS                    |
| 195  | 1   | 2091701     | WASHER-PROP                             |
| 196  | 1   | 2331160     | PROP-WW2, 80#                           |
| 197  | 1   | 2262658     | PIN-DRIVE 1" X 3/16" SS                 |
| 198  | 2   | 880-025     | SEAL                                    |
| 199  | 1   | 725-095     | PAPER TUBE, SEAL                        |
| 200  | 1   | 92-300-170  | BRUSH END HSG, 80#                      |
| 201  | 1   | 144-017     | BEARING, FLANGE                         |
| 202  | 2   | 830-095     | THRU BOLT 12-24                         |
| 203  | 1   | 990-052     | WASHER, NYLATRON                        |
| 204  | 1   | 990-051     | WASHER-STEEL THRUST                     |
| 205  | 2   | 973-025     | SPACER, BRUSHPLATE                      |
| 206  | 1   | 9-738-015   | BRUSH PLATE ASSY, 4"                    |

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PARTS LIST

ULTERRA  
80/112 LBS THRUST - 24/36 VOLT - 45"/60"/72" SHAFT

| ITEM | QTY | PART NUMBER | DESCRIPTION               |
|------|-----|-------------|---------------------------|
| 207  | 2   | 975-041     | SPRING-TORSION            |
| 208  | 2   | 186-094     | BRUSH 4"                  |
| 209  | 2   | 830-027     | SCREW-BRUSH PLATE 10-32   |
| 210  | 2   | 701-009     | O-RING, THRU BOLTS        |
| 211  | 2   | 701-043     | O-RING, END HOUSINGS      |
| 212  | 1   | 2-100-214   | ARMATURE ASSY             |
| 213  | 1   | 140-010     | BEARING - BALL            |
| 214  | 1   | 990-045     | SPACER, THRUST            |
| 215  | 2   | 992-010     | WASHER, SPRING BELLEVILLE |
| 216  | 1   | *           | TRANSDUCER ASSY US 2.5    |
| 217  | 1   | *           | PLAIN END HOUSING, ASSY   |
| 218  | 1   | 230-038     | CABLE CLAMP, STEEL        |
| 219  | 1   | 2302104     | SCREW-#6 X 3/8            |
| 220  | 1   | 2341160     | PROP-WW2, 112#            |
| 221  | 1   | 92-300-155  | BRUSH END HSG, 112#       |
| 222  | 2   | 830-094     | THRU BOLT 12-24           |
| 223  | 1   | 2307312     | BEAD-FERRITE              |
| 224  | 1   | 9-738-011   | BRUSH PLATE ASSY, 4.5"    |
| 225  | 2   | 2053410     | SCREW-BRUSH PLATE, 10-32  |
| 226  | 2   | 975-045     | SPRING-TORSION            |
| 227  | 2   | 188-095     | BRUSH, 4.5" LU            |
| 228  | 1   | 701-107     | O-RING, BRUSH END         |
| 229  | 1   | 701-098     | O-RING, PLAIN END         |
| 230  | 1   | 2-100-245   | ARMATURE ASSY             |
| 231  | 1   | 140-014     | BEARING - BALL            |
| 232  | 2   | 992-011     | WASHER, SPRING BELLEVILLE |

| ITEM | QTY | PART NUMBER | DESCRIPTION                          |
|------|-----|-------------|--------------------------------------|
| 233  | 1   | 990-011     | WASHER, SHIM                         |
| 234  | 1   | *           | PLAIN END HOUSING, ASSY              |
| 235  | 1   | 582-013     | CLIP, RETAINING SHORT                |
| 236  | 1   | 582-016     | CLIP-RETAINING, SONAR                |
| 237  | 1   | 2218200     | FUSE HOLDER ASSY                     |
| 238  | 1   | 2307313     | FERRITE BEAD                         |
| 239  | 2   | 2065400     | WIRE INSULATOR-LGE 1-3/4,BLUE        |
| 240  | 2   | 2375400     | SHRINK TUBE-1/4 OD X 1-3/4           |
| 241  | 1   | 2203407     | SCREW, #6-32 X .5                    |
| 242  | 6   | 3391732     | SEALING WASHER                       |
| 243  | 6   | 3394602     | FLAT WASHER #8                       |
| 244† | 1   | 2997807     | TRIM HOUSING ASSEMBLY - 45"          |
|      | 1   | 2997803     | TRIM HOUSING ASSEMBLY - 60"          |
|      | 1   | 2997820     | TRIM HOUSING ASSEMBLY - 72"          |
|      | 1   | 2997827     | TRIM HOUSING ASSEMBLY - 45" (EUROPE) |
|      | 1   | 2997823     | TRIM HOUSING ASSEMBLY - 60" (EUROPE) |
| 245† | 1   | 2774201     | TILT BRACKET ASSEMBLY                |
| 246  | 1   | 2373487     | SCREW-#8-32 X 3/4                    |
| 247† | 1   | 9421-287    | ASSEMBLY 80#, 45"                    |
|      | 1   | 9421-290    | ASSEMBLY 80#, 60"                    |
| 248† | 1   | 9421-244    | ASSEMBLY 112#, 45"                   |
|      | 1   | 9421-246    | ASSEMBLY 112#, 60"                   |
|      | 1   | 9421-247    | ASSEMBLY 112#, 72"                   |
| 249  | 4   | 2263453     | SCREW, 1/4-20x1" SHCS S/S            |
| 250  | 1   | *           | DRIVE BLOCK BRACKET                  |
| 251  | 4   | *           | SCREW-#4-24 X 1/4" PHCR SS           |

\*Item is part of an assembly and is listed for reference only. Item cannot be ordered seperately. Refer to “Service Kits” section for kit part number.

†This assembly includes multiple parts. Refer to “Service Kits” section for complete part listing.

SERVICE KITS & ASSEMBLIES

| DESCRIPTION                          | KIT ITEM NO. | PART NO. | ITEM NUMBER INCLUDED / QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------|--------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TILT MOTOR ASSY                      | 178          | 2997813  | 128 (1), 129 (1), 130 (1), 131 (1), 132 (1), 133 (1), 134 (1), 135 (1), 136 (1), 137 (1), 138 (1), 139 (1), 140 (1), 141 (1), 142 (1), 143 (1), 144 (1)                                                                                                                                                                                                                                                                          |
| OUTPUT GEAR W/ MAGNETS               |              | 2772200  | 31 (1), 192 (4)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| STEERING HOUSING ASSY, 24V           | 179          | 2776501  | 13 (2), 14 (1), 15 (1), 16 (2), 17 (1), 18 (4), 19 (1), 20 (1), 21 (1), 22 (1), 23 (1), 24 (2), 25 (1), 26 (2), 27 (2), 28 (2), 29 (1), 30 (2), 31 (1), 32 (1), 33 (1), 34 (1), 35 (1), 36 (1), 37 (1), 38 (1), 39 (1), 40 (1), 41 (1), 42 (1), 43 (1), 44 (1), 45 (1), 46 (7), 47 (4), 48 (1), 49 (1), 50 (3), 51 (2), 52 (1), 53 (1), 54 (1), 55 (1), 56 (2), 57 (2), 58 (2), 59 (1), 61 (1), 62 (1), 63 (1), 192 (1), 241 (1) |
| STEERING HOUSING ASSY, 36V           | 179          | 2776503  | 13 (2), 14 (1), 15 (1), 16 (2), 17 (1), 18 (4), 19 (1), 20 (1), 21 (1), 22 (1), 23 (1), 24 (2), 25 (1), 26 (2), 27 (2), 28 (2), 29 (1), 30 (2), 31 (1), 32 (1), 33 (1), 34 (1), 35 (1), 36 (1), 37 (1), 38 (1), 39 (1), 40 (1), 41 (1), 42 (1), 43 (1), 44 (1), 45 (1), 46 (7), 47 (4), 48 (1), 49 (1), 50 (3), 51 (2), 52 (1), 53 (1), 54 (1), 55 (1), 56 (2), 57 (2), 58 (2), 59 (1), 61 (1), 62 (1), 63 (1), 192 (1), 241 (1) |
| CAM W/ MAGNET AND SPRING PIN         |              | 2777900  | 122 (1), 123 (1),                                                                                                                                                                                                                                                                                                                                                                                                                |
| RELEASE KNOB W/ SCREW                |              | 2770100  | 53 (1), 54 (1), 241 (1)                                                                                                                                                                                                                                                                                                                                                                                                          |
| SENSOR WIRE W/ BUTT CONNECTORS       |              | 2880350  |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| MOUNTING BAG                         |              | 2994917  |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| TRIM HOUSING ASSEMBLY - 45"          | 244          | 2997807  | 5 (2), 50 (1), 64 (1), 65 (1), 66 (1), 67 (1), 68 (1), 69 (1), 70 (1), 71 (1), 72 (1), 73 (1), 74 (2), 75 (1), 76 (1), 77 (1), 78 (1), 79 (1), 80 (1), 81 (1), 82 (1), 83 (1), 84 (1), 85 (1), 86 (1), 87 (1), 88 (1), 89 (1), 90 (1), 91 (1), 92 (1), 93 (1), 94 (1), 95 (1), 96 (10), 193 (1), 242 (1), 243 (1), 250 (1), 251 (4)                                                                                              |
| TRIM HOUSING ASSEMBLY - 60"          | 244          | 2997803  | 5 (2), 50 (1), 64 (1), 65 (1), 66 (1), 67 (1), 68 (1), 69 (1), 70 (1), 71 (1), 72 (1), 73 (1), 74 (2), 75 (1), 76 (1), 77 (1), 78 (1), 79 (1), 80 (1), 81 (1), 82 (1), 83 (1), 84 (1), 85 (1), 86 (1), 87 (1), 88 (1), 89 (1), 90 (1), 91 (1), 92 (1), 93 (1), 94 (1), 95 (1), 96 (10), 193 (1), 242 (1), 243 (1), 250 (1), 251 (4)                                                                                              |
| TRIM HOUSING ASSEMBLY - 72"          | 244          | 2997820  | 5 (2), 50 (1), 64 (1), 65 (1), 66 (1), 67 (1), 68 (1), 69 (1), 70 (1), 71 (1), 72 (1), 73 (1), 74 (2), 75 (1), 76 (1), 77 (1), 78 (1), 79 (1), 80 (1), 81 (1), 82 (1), 83 (1), 84 (1), 85 (1), 86 (1), 87 (1), 88 (1), 89 (1), 90 (1), 91 (1), 92 (1), 93 (1), 94 (1), 95 (1), 96 (10), 193 (1), 242 (1), 243 (1), 250 (1), 251 (4)                                                                                              |
| TRIM HOUSING ASSEMBLY - 45" (EUROPE) | 244          | 2997827  | 5 (2), 50 (1), 64 (1), 65 (1), 66 (1), 67 (1), 68 (1), 69 (1), 70 (1), 71 (1), 72 (1), 73 (1), 74 (2), 75 (1), 76 (1), 77 (1), 78 (1), 79 (1), 80 (1), 81 (1), 82 (1), 83 (1), 84 (1), 85 (1), 86 (1), 87 (1), 88 (1), 89 (1), 90 (1), 91 (1), 92 (1), 93 (1), 94 (1), 95 (1), 96 (10), 193 (1), 242 (1), 243 (1), 250 (1), 251 (4)                                                                                              |
| TRIM HOUSING ASSEMBLY - 60" (EUROPE) | 244          | 2997823  | 5 (2), 50 (1), 64 (1), 65 (1), 66 (1), 67 (1), 68 (1), 69 (1), 70 (1), 71 (1), 72 (1), 73 (1), 74 (2), 75 (1), 76 (1), 77 (1), 78 (1), 79 (1), 80 (1), 81 (1), 82 (1), 83 (1), 84 (1), 85 (1), 86 (1), 87 (1), 88 (1), 89 (1), 90 (1), 91 (1), 92 (1), 93 (1), 94 (1), 95 (1), 96 (10), 193 (1), 242 (1), 243 (1), 250 (1), 251 (4)                                                                                              |
| TILT BRACKET ASSY                    | 245          | 2774201  | 50 (1), 51 (1), 112 (4), 113 (1), 114 (2), 115 (1), 116 (1)                                                                                                                                                                                                                                                                                                                                                                      |
| ASSEMBLY 80#, 45"                    | 247          | 9421-287 | 216 (1), 217 (1)                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ASSEMBLY 80#, 60"                    | 247          | 9421-290 | 216 (1), 217 (1)                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ASSEMBLY 112#, 45"                   | 248          | 9421-244 | 234 (1), 216 (1)                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ASSEMBLY 112#, 60"                   | 248          | 9421-246 | 234 (1), 216 (1)                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ASSEMBLY 112#, 72"                   | 248          | 9421-247 | 234 (1), 216 (1)                                                                                                                                                                                                                                                                                                                                                                                                                 |

# MOTOR WIRING DIAGRAM

**NOTE:** This is a universal, multi-voltage diagram. Double-check your motor's voltage for proper connections.  
Over-Current Protection Devices not shown in this illustration. **Ulterra 80 is 24-volts only!**  
**Ulterra 112 is 36-volts only!**

