

## WAVE BIRD CONTROLLER Parts List

|    | Part Name                   | Q'ty | Part No./Material                                    | Description                                         | Remarks              |
|----|-----------------------------|------|------------------------------------------------------|-----------------------------------------------------|----------------------|
| 1  | Controller Housing Upper    | 1    | A B S                                                | AGB Light Grey                                      | 23-0967A             |
| 2  | Controller Housing Lower    | 1    | A B S                                                | AGB Light Grey                                      | 23-0968A             |
| 3  | Key-top A DOL               | 1    | P O M                                                | DOL Emerald Green                                   | 23-0839A             |
| 4  | Key-top B DOL               | 1    | P O M                                                | DOL Red                                             | 23-0840A             |
| 5  | Key-top X DOL               | 1    | P O M                                                | DOL Wave White                                      | 23-0841B             |
| 6  | Key-top Y DOL               | 1    | P O M                                                | DOL Wave White                                      | 23-0842B             |
| 7  | START Key                   | 1    | P O M                                                | DOL Wave White                                      | 23-0970A             |
| 8  | Key-top Z DOL               | 1    | P O M                                                | DOL Light Violet                                    | 23-0843A             |
| 9  | Trigger Key L DOL           | 1    | P O M                                                | DOL Wave White                                      | 23-0848B             |
| 10 | Trigger Key R DOL           | 1    | P O M                                                | DOL Wave White                                      | 23-0849B             |
| 11 | Controller Main Stick DOL   | 1    | PA6&PP / Elastomer                                   | DOL Wave White                                      | 23-0846B             |
| 12 | Controller Sub Stick DOL    | 1    | PA6&PP / Elastomer                                   | DOL Yellow                                          | 23-0847A             |
| 13 | Key-top F DOL               | 1    | PA6                                                  | DOL Wave White                                      | 23-0845B             |
| 14 | Trigger Cover L DOL         | 1    | A B S                                                | DOL Black                                           | 23-0850B             |
| 15 | Trigger Cover R DOL         | 1    | A B S                                                | DOL Black                                           | 23-0851B             |
| 16 | Trigger Guide L DOL         | 1    | P P                                                  | Black                                               | 23-0852B             |
| 17 | Trigger Guide R DOL         | 1    | P P                                                  | Black                                               | 23-0853B             |
| 18 | T X Holder                  | 1    | A B S                                                | DOL Black                                           | 23-0974A             |
| 19 | Rubber Switch 4B DOL        | 1    | Silicone rubber                                      | DOL Pale Grey                                       | 23-0859A             |
| 20 | Rubber Switch S DOL         | 1    | Silicone rubber                                      | DOL Pale Grey                                       | 23-0860A             |
| 21 | Rubber Switch F DOL         | 1    | Silicone rubber                                      | DOL Pale Grey                                       | 23-0861A             |
| 22 | Rubber Switch (Trigger) DOL | 2    | Silicone rubber                                      | DOL Pale Grey                                       | 23-0862A             |
| 23 | Trigger Spring              | 2    | SWP-B                                                |                                                     | 23-0854A             |
| 24 | Trigger Shaft               | 2    | SWIC                                                 |                                                     | 23-0855A             |
| 25 | Trigger Wire                | 2    | UL Style 1571                                        |                                                     | 23-0856A             |
| 26 | Slide Knob                  | 1    | P O M                                                | DOL Wave White                                      | 23-0971A             |
| 27 | PC4 Cable                   | 1    | UL Style 2651                                        |                                                     | 23-0983A             |
| 28 | L E D Lens                  | 1    | P MMA                                                | DOL Wave White                                      | 23-0973A             |
| 29 | PWB A ASSY                  | 1    |                                                      |                                                     | 23-7351A             |
| 30 | PWB B DOL                   | 1    | 1.6mm thick, Paper Phenol<br>Copper Foil on One Side | 94V-0                                               | 23-1014A             |
| 31 | PWB (Trigger) DOL           | 2    | 1.6mm thick, Paper Phenol<br>Copper Foil on One Side | 94V-0                                               | 23-0901A             |
| 32 | Z-plate DOL                 | 1    | S U S                                                |                                                     | 23-0902A             |
| 33 | Main Joy Stick Unit         | 1    | High Load                                            | Potentiometer : MATSUSHITA<br>Potentiometer : NOBLE | 23-7355A<br>23-7356A |
| 34 | Sub Joy Stick Unit          | 1    | Low Load                                             | Potentiometer : MATSUSHITA<br>Potentiometer : NOBLE | 23-7355B<br>23-7356B |
| 35 | Tapping Screw               | 4    | Cross Bit                                            | φ 2.0, L=8, Black Chromate                          | 56-W326B             |
| 36 | Tapping Screw               | 8    | Y-Bit (With ISO Mark)                                | φ 2.6, L=8, Chromate                                | 23-0913B             |
| 37 | Dial                        | 1    | A B S                                                | DOL Wave White                                      | 23-0972A             |
| 38 | Battery Cover               | 1    | A B S                                                | AGB Light Grey                                      | 23-0969A             |
| 39 | Battery Terminal (+)        | 1    | B S P                                                | 0.4mm thick, Ni-plate                               | 23-0998A             |
| 40 | Battery Terminal (-)        | 1    | S U S 304<br>B S P                                   | φ 0.5 Ni -plate<br>0.4mm thick, Ni-plate            | 23-0999A             |
| 41 | Battery Terminal (W)        | 1    | S U S 304<br>B S P                                   | φ 0.5 Ni -plate<br>0.4mm thick, Ni-plate            | 23-1000A             |

## PWB A ASSEMBLY

|    | Part Name              | Q'ty | Part No./Material                                                        | Description                 | Remarks      |
|----|------------------------|------|--------------------------------------------------------------------------|-----------------------------|--------------|
| 1  | PWB A                  | 1    | 1.6mm thick, Paper Phenol<br>Ag Thru.Hole, Copper Foil<br>on double Side | 94V-0                       | 23-0975A     |
| 2  | B / B -1 C             | 1    | MX99301AUC                                                               | Megachips                   |              |
| 3  | Electrolytic Capacitor | 1    | 22 $\mu$ F / 10V                                                         | Any Maker                   |              |
| 4  | Chip Capacitor         | 19   | 0.1 $\mu$ F ( F Lank)                                                    | Any Maker                   |              |
| 5  | Chip Capacitor         | 6    | 0.1 $\mu$ F ( B Lank)                                                    | Any Maker                   |              |
| 6  | Chip Capacitor         | 1    | 10 $\mu$ F ( B Lank)                                                     | Any Maker                   |              |
| 7  | Chip Capacitor         | 1    | 22pF                                                                     | Any Maker                   |              |
| 8  | Chip Capacitor         | 1    | 15pF                                                                     | Any Maker                   |              |
| 9  | Chip Resistor          | 1    | 270k $\Omega$                                                            | Any Maker                   |              |
| 10 | Chip Resistor          | 2    | 10k $\Omega$                                                             | Any Maker                   |              |
| 11 | Chip Resistor          | 2    | 1M $\Omega$                                                              | Any Maker                   |              |
| 12 | Chip Resistor          | 1    | 43k $\Omega$                                                             | Any Maker                   |              |
| 13 | Chip Resistor          | 1    | 7.5k $\Omega$                                                            | Any Maker                   |              |
| 14 | Chip Resistor          | 1    | 100k $\Omega$                                                            | Any Maker                   |              |
| 15 | Chip Resistor          | 1    | 1k $\Omega$                                                              | Any Maker                   |              |
| 16 | Chip Resistor          | 2    | 150k $\Omega$                                                            | Any Maker                   |              |
| 17 | Chip Resistor          | 1    | 360 $\Omega$                                                             | Any Maker                   |              |
| 18 | Chip Resistor          | 1    | 24K $\Omega$                                                             | Any Maker                   |              |
| 19 | Crystal Resonator      | 1    | HC-49/U-S                                                                | KINSEKI                     |              |
| 20 | Diode                  | 1    | RB521S-30                                                                | ROHM                        |              |
| 21 | Diode                  | 1    | 1SS355                                                                   | ROHM                        |              |
| 22 | Chip Fuse              | 1    | 494.500NR                                                                | Littelfuse                  |              |
| 23 | Transistor             | 2    | 2SC4081                                                                  | ROHM                        |              |
| 24 | Chip F E T             | 1    | SSM3J01F                                                                 | TOSHIBA                     |              |
| 25 | EEPROM                 | 1    | M93C46-WMN6T                                                             | ST Microelectronics         |              |
| 26 | Chip Coil              | 1    | LQH4C470K                                                                | MURATA                      |              |
| 27 | Regulator              | 1    | MM3005NNRE                                                               | MITSUMI                     |              |
| 28 | Tactile Switch         | 1    | SOB-228VG( R66-5746)                                                     | Kyusyu MITSUMI              |              |
| 29 | Ptentiometer           | 2    | EVA W7J R04 B34<br>XVJ09-Y004<br>RD7097001A                              | MATSUSHITA<br>NOBLE<br>ALPS | 30K $\Omega$ |
| 30 | Reset-IC               | 1    | PST3617UR                                                                | MITSUMI                     |              |
| 31 | Chip LED               | 1    | HSML-C190                                                                | Agilent Technologies        |              |
| 32 | T X Module             | 1    | DRT-A005                                                                 | MITSUMI                     |              |
| 33 | Rotary Switch          | 1    | SCR-16M( R66-5781)                                                       | Kyusyu MITSUMI              |              |
| 34 | Slide Switch           | 1    | SSR-121MVB( R66-5784)                                                    | Kyusyu MITSUMI              |              |
| 35 |                        |      |                                                                          |                             |              |
| 36 |                        |      |                                                                          |                             |              |
| 37 |                        |      |                                                                          |                             |              |
| 38 |                        |      |                                                                          |                             |              |
| 39 |                        |      |                                                                          |                             |              |
| 40 |                        |      |                                                                          |                             |              |

## Main Joy Stick

|    | Part Name            | Q'ty | Part No./Material                       | Description         | Remarks          |
|----|----------------------|------|-----------------------------------------|---------------------|------------------|
| 1  | Cover                | 1    | SPTE                                    |                     |                  |
| 2  | Crank A              | 1    | POM( Inorganic Filler)                  |                     |                  |
| 3  | Crank B              | 1    | POM( Inorganic Filler)                  |                     |                  |
| 4  | Spring Holder        | 1    | POM                                     |                     |                  |
| 5  | Stick P              | 1    | PB T ( Inorganic Filler)                |                     |                  |
| 6  | Base P               | 1    | POM( Inorganic Filler)                  |                     |                  |
| 7  | Rotary Potentiometer | 2    | EVW BB5 A00 B34<br>XV09912PHNSL-0B30K/□ | MATSUSHITA<br>NOBLE | 30K Ω            |
| 8  | Spring               | 1    | SWP-B                                   | Black               | High-load Spring |
| 9  |                      |      |                                         |                     |                  |
| 10 |                      |      |                                         |                     |                  |
| 11 |                      |      |                                         |                     |                  |
| 12 |                      |      |                                         |                     |                  |
| 13 |                      |      |                                         |                     |                  |
| 14 |                      |      |                                         |                     |                  |
| 15 |                      |      |                                         |                     |                  |

## Sub Joy Stick

|    | Part Name            | Q'ty | Part No./Material                       | Description         | Remarks         |
|----|----------------------|------|-----------------------------------------|---------------------|-----------------|
| 1  | Cover                | 1    | SPTE                                    |                     |                 |
| 2  | Crank A              | 1    | POM( Inorganic Filler)                  |                     |                 |
| 3  | Crank B              | 1    | POM( Inorganic Filler)                  |                     |                 |
| 4  | Spring Holder        | 1    | POM                                     |                     |                 |
| 5  | Stick P              | 1    | PB T ( Inorganic Filler)                |                     |                 |
| 6  | Base P               | 1    | POM( Inorganic Filler)                  |                     |                 |
| 7  | Rotary Potentiometer | 2    | EVW BB5 A00 B34<br>XV09912PHNSL-0B30K/□ | MATSUSHITA<br>NOBLE | 30K Ω           |
| 8  | Spring               | 1    | SWP-B                                   | Black               | Low-load Spring |
| 9  |                      |      |                                         |                     |                 |
| 10 |                      |      |                                         |                     |                 |
| 11 |                      |      |                                         |                     |                 |
| 12 |                      |      |                                         |                     |                 |
| 13 |                      |      |                                         |                     |                 |
| 14 |                      |      |                                         |                     |                 |
| 15 |                      |      |                                         |                     |                 |

## TX Module Parts List

|    | Part Name              | Q'ty | Part No./Material                                                                | Description | Remarks |
|----|------------------------|------|----------------------------------------------------------------------------------|-------------|---------|
| 1  | PWB                    | 1    | 1.0mm thick, G I a s s E<br>resin board Thru.Hole,<br>Copper Foil on double Side | 94V-0       |         |
| 2  | Antenna PWB            | 1    | 1.0mm thick, G I a s s E<br>resin board Thru.Hole,<br>Copper Foil on double Side | 94V-0       |         |
| 3  | Electrolytic Capacitor | 2    | 10 $\mu$ F/16V                                                                   | Any Maker   |         |
| 4  | Chip Capacitor         | 1    | 0.5pF CK                                                                         | Any Maker   |         |
| 5  | Chip Capacitor         | 1    | 1.0pF CK                                                                         | Any Maker   |         |
| 6  | Chip Capacitor         | 3    | 7.0pF CH                                                                         | Any Maker   |         |
| 7  | Chip Capacitor         | 3    | 22pF CH                                                                          | Any Maker   |         |
| 8  | Chip Capacitor         | 6    | 100pF CH                                                                         | Any Maker   |         |
| 9  | Chip Capacitor         | 4    | 1000pF ( B Lank)                                                                 | Any Maker   |         |
| 10 | Chip Capacitor         | 3    | 0.01 $\mu$ ( B Lank)                                                             | Any Maker   |         |
| 11 | Chip Capacitor         | 3    | 1.0 $\mu$ ( B Lank)                                                              | Any Maker   |         |
| 12 | Chip Resistor          | 1    | 180 $\Omega$                                                                     | Any Maker   |         |
| 13 | Chip Resistor          | 2    | 0 $\Omega$                                                                       | Any Maker   |         |
| 14 | Chip Inductor          | 1    | 15nH                                                                             | TOUKOU      |         |
| 15 | Chip Inductor          | 1    | 1.5nH                                                                            | TOUKOU      |         |
| 16 | B.P.F                  | 1    | 2450MHz                                                                          | MURATA      |         |
| 17 | TX RF LSI              | 1    | PR3331                                                                           | MegaChips   |         |
| 18 | CASE                   | 1    |                                                                                  | MI T S U MI |         |
| 19 |                        |      |                                                                                  |             |         |
| 20 |                        |      |                                                                                  |             |         |
| 21 |                        |      |                                                                                  |             |         |
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