# PARTS LIST

N: New Parts
*: Please note that parts are sometimes not in stock, and it takes much time to deliver.

## SEMICONDUCTOR

| Item | Re-marks | Name |
|---|---|---|
| Diode | | 1S1555 |
| | | 1S133 |
| | | 1S2588 |
| | | 1S1587 |
| | | 1S1007 |
| | | 1SV53A |
| | N | 1VS153 |
| | | 1SS101 |
| | | 1SS99 |
| | | 1N60 |
| | | 1N4448 |
| | | S31C |
| | | BA282 |
| | N | MA858 |
| | N | US1090 |
| | N | DAN401 |
| | | MC931 |
| | | MI204 |
| | | MC921 |
| Vari-cap | | ITT310TE |
| Varistor | | MV13 |
| | | MV-5T |
| | | MV203 |
| | N | SV03YS |
| Zener diode | | MTZ 3.0JB |
| | | MTZ 4.3JC |
| | | MTZ 6.2JA |
| | | MTZ 7.5JA |
| | | MTZ 9.1JB |
| | | MTZ 9.1JC |
| | N | UZ 3.0B |
| | N | UZ 6.2BL |
| | N | UZ 9.1BL |
| | | V06B |
| Thermistor | | SDT1000 |
| | N | 5T41L |
| | | 112-502-2 |
| | | 32D27 |
| Surge absober | N | DSP-301N |

| Item | Re-marks | Name |
|---|---|---|
| Digital Tr | N | DTC114ES |
| | | DTC143TS |
| | | DTC124ES |
| | | DTC144WS |
| | | DTA114ES |
| TR | | 2SA562 (Y) |
| | N | 2SA562 TM |
| | | 2SA950 (Y) |
| | | 2SC1959 (Y) |
| | | 2SC1815 (Y) |
| | | 2SC2053 |
| | | 2SC2075 |
| | | 2SC2458 (Y) |
| | | 2SC2459 (BL) |
| | | 2SC2509 |
| | | 2SC2538 |
| | | 2SC2570A |
| | | 2SC2668 (Y) |
| | | 2SC2603 (E) |
| | N | 2SC2879 |
| | | 2SC3113 (B) |
| | | 2SC2787 (L) |
| FET | | 2SK30 (GR) |
| | | 2SK30 (O) |
| | | 2SK192 (GR) |
| | | 2SK192A (GR) |
| | | 2SK192A (GR)*J |
| | | 2SK125-5 |
| | | 3SK73 (GR) |
| | | 3SK74 (L) |
| | | 3SK122 (L) |
| IC | | AN612 |
| | | AN6551 |
| | | AN7805 |
| | | AN7808 |
| | | BA718 |
| | | BA6109U2 |
| | | BX6124 |
| | | BX7191 |
| | | HD10116 |
| | | HD10131 |
| | | HD10125 |

| Item | Re-marks | Name |
|---|---|---|
| | N | LM2931Z-5.0 |
| | N | M54460L |
| | | M54459L |
| | | M54561P |
| | N | M74LS00P |
| | N | M74LS123P |
| | | M74LS145P |
| | | MB3614 |
| | | MB4052 |
| | N | MB87006 |
| | N | MBM2718-25JA1 |
| | | MBM8418-20LP-GRA |
| | | MC10125L |
| | | MC10131L |
| | | MC10116L |
| | | MC3357P |
| | | MN6147 |
| | | MN6147C |
| | | NE555P |
| | | NJM2903D |
| | | NJM2903S |
| | | NJM2904M |
| | | NJM2094S |
| | | PST520D |
| | | SN74LS90N |
| | | SN74LS10N |
| | | SN74LS112N |
| | N | SN7404N |
| | N | SN74LS123N |
| | | SN74LS00N |
| | | SN74LS138N |
| | | SN74LS145N |
| | | SN16913P |
| | N | TC4001BF |
| | | TC4011BP |
| | | TC4013BP |
| | N | TC4030BP |
| | N | TC4069UBP |
| | | TMP8255AP-5 |
| | | μPC1158H2 |
| | | μPC2002V |
| | | μPC4558C |
| | N | μPD6300C |
| | | μPD8255AC-5 |
| | | μPD7800G |

### Destination table

**K** : for U.S.A.
**M1** : GENERAL MARKET
**M2** : GENERAL MARKET
**T** : for England
**W** : for Europe
**X** : for Australia

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| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Destination 仕向 | Remarks 備考 |
|---|---|---|---|---|---|---|
| **TS-440** | | | | | | |
| 1 | 1B | * | A01-0998-02 | CASE (A) UPPER | | |
| 2 | 3A | * | A01-0999-02 | CASE (B) LOWER | | |
| 3 | 2C | * | A20-2556-03 | PANEL ASSY | | |
| 4 | 2B | * | A40-0617-03 | BOTTOM PLATE | | |
| 9 | 1A | | B04-0411-04 | SP MOUNTING HARDWARE | | |
| 10 | 1A | | B05-0708-04 | SP GRILL CLOTH | | |
| 11 | 1F | | B30-0817-15 | PILOT LAMP (14V,80MA) | | |
| 12 | 2H | * | B31-0657-05 | METER | | |
| 14 | 3A | * | B40-3625-04 | MODEL NAME PLATE | KM1M2 | |
| 14 | 3A | * | B40-3625-04 | MODEL NAME PLATE | TW | |
| 14 | 3A | * | B40-3626-04 | MODEL NAME PLATE | X | |
| 17 | 1A | * | B42-2422-04 | VOX NAME PLATE | | |
| 22 | 2C | * | B43-1063-04 | NAME PLATE (TRIO TS-440S) | T | |
| 22 | 2C | * | B43-1064-04 | NAME PLATE (KENWOOD TS-44X) | X | |
| 22 | 2C | * | B43-1065-04 | NAME PLATE (KENWOOD TS-440S) | KM1M2 | |
| 22 | 2C | * | B43-1065-04 | NAME PLATE (KENWOOD TS-440S) | W | |
| 23 | 1T | * | B46-0410-10 | WARRANTY CARD | K | |
| 24 | 1S | * | B50-8048-00 | INSTRUCTION MANUAL | KM1M2 | |
| 24 | 1S | * | B50-8048-00 | INSTRUCTION MANUAL | WX | |
| 24 | 1S | * | B50-8049-00 | INSTRUCTION MANUAL | T | |
| " | | | B42-1729-04 | LABEL(WITH ANTENNA TUNER) | | |
| 26 | 1S | | E07-0751-05 | 7P DIN PLUG (ACCESSORY) | | |
| 27 | 1S | | E07-0852-05 | 8P METAL PLUG | KM1M2 | |
| 28 | 1S | | E30-1638-05 | DC POWER CORD ASSY | | |
| " | | | E31-0431-15 | WIRE WITH CONNECTOR (SP) | | |
| 30 | 1S | | F05-2034-05 | FUSE (20A) | | |
| 31 | 1S | | F05-2034-05 | FUSE (20A)ACCESSORY | | |
| 33 | 3C | | G02-0505-05 | KNOB FIXED SPLING (X4) | | |
| " | | | G53-0509-04 | PACKING (X2) CASE SIDE | | |
| 34 | 3S | | H01-4683-04 | CARTON BOX (INSIDE) | KM1M2 | |
| 34 | 3S | | H01-4683-04 | CARTON BOX (INSIDE) | W | |
| 34 | 3S | * | H01-4684-04 | CARTON BOX (INSIDE) | T | |
| 34 | 3S | * | H01-4685-04 | CARTON BOX (INSIDE) | X | |
| 35 | 3S | * | H03-2278-04 | CARTON BOX (OUT SIDE) | | |
| 35 | 3S | * | H03-2278-04 | CARTON BOX (OUT SIDE) | | |
| 35 | 3S | * | H03-2285-04 | CARTON BOX (OUT SIDE) | | |
| 36 | 2S | * | H10-2615-02 | PACKING FIXTURE(F) | | |
| 37 | 1T | * | H10-2616-02 | PACKING FIXTURE(R) | | |
| 38 | 1S | | H12-1315-04 | CUSHION | | |
| 39 | 2T | | H20-1425-03 | PROTECTIVE COVER | | |
| 40 | 1S | | H25-0079-04 | PROTECTIVE BAG (MIC) | KM1M2 | |
| 40 | 1S | | H25-0079-04 | PROTECTIVE BAG (MIC) | X | |
| 41 | 1S | | H25-0112-04 | PROTECTIVE BAG (DC CORD) | | |
| 43 | 3B | | J02-0323-05 | FOOT (X2) R | | |
| 44 | 3A | * | J02-0440-04 | ASSISTANT FOOT | | |
| 45 | 1A,3A | | J02-0441-05 | FOOT (X4) | | |
| 46 | 3A | | J02-0442-04 | FOOT (X2) F | | |
| 47 | 2A | | J21-1144-34 | MOUNTING HARDWARE(SP) | | |
| 48 | 1F | * | J21-2779-14 | MOUNTING HARDWARE(PILOT LAMP) | | |
| 49 | 2E | | J30-0526-04 | SPACER | | |
| 50 | 2E | | J31-0141-04 | SPACER RING (MIC) | | |

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|---|---|---|---|---|---|---|
| 55 | 1E | | J32-0765-04 | HEX BOSS (X2) 6.5MM | | |
| 56 | 2F | | J32-0782-04 | HEX BOSS (X4) 11MM | | |
| 57 | 1F,1G | * | J32-0792-04 | HEX BOSS (X8) 10MM | | |
| 58 | 1G | * | J32-0793-04 | HEX BOSS (X4) 11MM | | |
| 59 | 1I,2J | * | J32-0794-04 | HEX BOSS (X3) 5MM | | |
| 63 | 3B | | K01-0407-05 | CARRING HANDLE | | |
| 64 | 3C | * | K21-0778-02 | MAIN KNOB | | |
| 65 | 3C | | K23-0710-04 | KNOB (INSIDE) X4 | | |
| 66 | 1S | | K23-0712-04 | KNOB (VOX) X1 | | |
| 67 | 3C | | K23-0782-04 | KNOB (SELECTIVITY)X1 | | |
| 68 | 3C | | K29-0741-24 | KNOB (OUTSIDE) X4 | | |
| 69 | 2C | | K29-0758-04 | PUSH KNOB (POWER) X1 | | |
| 70 | 2C | | K29-0782-05 | KNOB (ALC) | | |
| 71 | 2C | | K29-3001-04 | PUSH KNOB (X4) | | |
| 72 | 2C | | K29-3002-04 | PUSH KNOB (X6) | | |
| 75 | 2L | * | N19-0601-14 | FLAT WASHER | | |
| 76 | 2C | | N19-0637-04 | FLAT WASHER (MAIN KNOB) | | |
| - | | | N87-3008-46 | BRAZIER HEAD TAPTITE SCREW(X1) | | |
| | | | N87-3012-46 | BRAZIER HEAD TAPTITE SCREW(X2) | | |
| AA | 2C,2E | | N09-0256-05 | GND SCREW (X4) | | |
| BB | 2H | | N09-0644-04 | BIND SCREW (X6) | | |
| CC | 2M | | N09-0658-04 | ROUND SCREW (X5) | | |
| DD | 2C,3C | * | N09-0699-05 | SCREW (X6) | | |
| E | 2L | | N30-2608-41 | PAN HEAD MACHINE SCREW (X6) | | |
| F | 1E,1F | | N32-2606-46 | FLAT HEAD MACHINE SCREW (X8) | | |
| G | 2C,2D | | N32-3004-46 | FLAT HEAD MACHINE SCREW (X4) | | |
| H | 1C,2D | | N32-3006-46 | FLAT HEAD MACHINE SCREW (X8) | | |
| J | 1A | | N33-3006-41 | OVAL HEAD MACHINE SCREW (X4)SP | | |
| K | 1G,1I | | N35-2605-46 | BINDING HEAD MACHINE SCREW(X8) | | |
| L | 1A,3B | | N35-3006-41 | BINDING HEAD MACHINE SCREW(X20 | | |
| M | 1C,1L | | N87-2606-46 | BRAZIER HEAD TAPTITE SCREW(X36 | | |
| N | 1C,2K | | N87-3006-46 | BRAZIER HEAD TAPTITE SCREW(X13 | | |
| P | 3A | | N87-3008-41 | BRAZIER HEAD TAPTITE SCREW(X2) | | |
| R | 2L | | N87-3010-41 | BRAZIER HEAD TAPTITE SCREW(X2) | | |
| T | 3D | | N35-3006-46 | BINDING HEAD MACHINE SCREW | | |
| U | 1J | | N30-2604-46 | PAN HEAD MACHINE SCREW | | |
| R1 | | | RS14AB3A100J | FL-PROOF RS 10 J 1W | | |
| 79 | 2H | * | S59-0436-05 | KEY BOARD ASSY | | |
| S1 | 1E | | S40-2437-05 | PUSH SWITCH (POWER) | | |
| S2 | | | S50-1406-05 | PUSH SWITCH (TACT) | KM1M2 | |
| S2 | | | S50-1406-05 | PUSH SWITCH (TACT) | X | |
| 80 | 2A | | T03-0027-15 | SPEAKER | | |
| 81 | 1S | | T91-0352-05 | MICROPHONE | KM1M2 | |
| 81 | 1S | | T91-0352-05 | MICROPHONE | X | |
| 83 | 1F | * | W02-0373-05 | ENCONDER ASSY | | |
| 84 | 1S | | W09-0326-05 | LITHIUM BATTERY | | |
| 88 | 2D,2G | | X41-1610-00 | SWITCH UNIT | | |
| 89 | 3D | | X44-1680-00 | RF UNIT | | |
| 90 | 2L,1O | | X45-1470-00 | FINAL UNIT | | |
| 91 | 2C | | X50-2050-00 | PLL UNIT | | |
| 92 | 1L | | X51-1340-00 | FILTER UNIT | | |
| 93 | 1I,2J | * | X53-1450-11 | CONTROL UNIT | KM1M2 | |

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|---|---|---|---|---|---|---|
| 93 | 1I,2J | * | X53-1450-11 | CONTROL UNIT | WX | |
| 93 | 1I,2J | * | X53-1450-21 | CONTROL UNIT | M2 | |
| 96 | 1K,1G | * | X54-1870-00 | DISPLAY UNIT | | |
| 97 | 2D,1R | * | X57-1150-00 | AT UNIT | | |
| 98 | 1D | * | X60-1300-00 | IF UNIT | | |
| **SWITCH UNIT (X41-1610-00)** | | | | | | |
| C10 ,11 | | | CK45F1H473Z | CERAMIC 0.047UF Z | | |
| C12 | | | CE04W1C222M | ELECTRO 2200UF 16WV | | |
| C13 | | | CK45F1H473Z | CERAMIC 0.047UF Z | | |
| C14 | | | CE04W1C222M | ELECTRO 2200UF 16WV | | |
| C15 | | | CK45F1H473Z | CERAMIC 0.047UF Z | | |
| C17 | | | CE04W1C330M | ELECTRO 33UF 16WV | | |
| C19 ,20 | | | CE04W1C330M | ELECTRO 33UF 16WV | | |
| C23 | | | CE04W1C330M | ELECTRO 33UF 16WV | | |
| C24 | | | CE04W1C470M | ELECTRO 47UF 16WV | | |
| C26 | | | CE04W1C330M | ELECTRO 33UF 16WV | | |
| C30 | | | CE04W1C470M | ELECTRO 47UF 16WV | | |
| C31 | | | CE04W1C330M | ELECTRO 33UF 16WV | | |
| C34 | | | CE04W1C330M | ELECTRO 33UF 16WV | | |
| C35 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C38 | | | CE04W1C470M | ELECTRO 47UF 16WV | | |
| C39 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C41 | | | C90-2035-05 | ELECTRO 100UF 16WV | | |
| C43 | | | CK45F1H473Z | CERAMIC 0.047UF Z | | |
| C45 | | | C90-2035-05 | ELECTRO 100UF 16WV | | |
| C46 | | | CQ92M1H562K | MYLAR 5600PF K | | |
| C48 -52 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C53 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C55 ,56 | | | C90-2035-05 | ELECTRO 100UF 16WV | | |
| C57 | | * | C90-2021-05 | ELECTRO 10UF 25WV | | |
| C59 | | | CK45B1H471K | CERAMIC 470PF K | | |
| C60 ,61 | | | CK45B1H102K | CERAMIC 1000PF K | | |
| - | | | E23-0401-05 | TERMINAL | | |
| - | | | E23-0512-05 | TERMINAL | | |
| CN1 | | | E06-0656-05 | 6P DIN CONNECTOR(ACC1) | | |
| CN2 | | | E11-0413-05 | JACK (PHONES) | | |
| CN4 | | | E06-0858-05 | 8P METAL SOCKET (MIC) | | |
| CN4 | | | E11-0414-05 | JACK (EXT SP) | | |
| CN5 | | * | E11-0418-05 | PHONE JACK (FSK IN,OUT,ACC3) | | |
| CN6 | | | E13-0362-05 | PHONO JACK | | |
| MC1 | | | E40-0773-05 | PIN CONNECTOR (MINI,7P) | | |
| MC2 | | | E40-1073-05 | PIN CONNECTOR (MINI,10P) | | |
| MC3 | | | E40-1273-05 | PIN CONNECTOR (MINI,12P) | | |
| MC4 | | | E40-0573-05 | PIN CONNECTOR (MINI,5P) | | |
| MC8 | | | E40-0373-05 | PIN CONNECTOR (MINI,3P) | | |
| MC9 ,10 | | | E40-0273-05 | PIN CONNECTOR (MINI,2P) | | |
| MC12 | | | E40-0873-05 | PIN CONNECTOR (MINI,8P) | | |
| MC13,14 | | | E40-3237-05 | PIN CONNECTOR (MINI,2P) | | |
| MC15 | | | E40-3239-05 | PIN CONNECTOR (MINI,4P) | | |
| MC16 | | | E08-0373-05 | MINI CONNECTOR (3P) | | |
| MC17 | | | E08-0272-05 | MINI CONNECTOR (2P) | | |
| MC18 | | | E40-0473-05 | PIN CONNECTOR (MINI,4P) | | |
| MC19 | | | E40-0373-05 | PIN CONNECTOR (MINI,3P) | | |
| MC20,21 | | | E40-0473-05 | PIN CONNECTOR (MINI,4P) | | |

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|---|---|---|---|---|---|---|
| MC22 | | | E40-0673-05 | PIN CONNECTOR (MINI,6P) | | |
| MC24 | | | E40-0373-05 | PIN CONNECTOR (MINI,3P) | | |
| MC25 | | | E40-5069-05 | PIN CONNECTOR (MINI,6P) | | |
| MC27 | | | E40-3241-05 | PIN CONNECTOR (MINI,12P) | | |
| MC28 | | | E04-0154-05 | RF COAXIAL CABLE RECEPTACLE | | |
| MC29 | | | E40-0273-05 | PIN CONNECTOR (MINI,2P) | | |
| MC30 | | | E40-0473-05 | PIN CONNECTOR (MINI,4P) | | |
| MC31 | | | E40-0373-05 | PIN CONNECTOR (MINI,3P) | | |
| MC32,33 | | | E40-0273-05 | PIN CONNECTOR (MINI,2P) | | |
| MC34 | | | E40-0473-05 | PIN CONNECTOR (MINI,4P) | | |
| - | | | F02-0423-04 | HEAT SINK | | |
| CH1 | | | L15-0016-05 | CHOKE COIL | | |
| L1 | | | L40-1011-13 | SMALL FIXED INDUCTOR | | |
| L3 -5 | | | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| - | | | N09-0641-05 | SCREW (X4) | | |
| - | | | N10-2030-46 | HEXAGON NUT (X2) | | |
| - | | | N17-1030-46 | TOOTHED LOCK WASHER (X4) | | |
| - | | | N30-3004-46 | PAN HEAD MACHINE SCREW(X1) | | |
| VR1 | | * | R19-3423-05 | POTENTIOMETER (MIC,CAR) | | |
| VR2 | | * | R24-9405-05 | POTENTIOMETER (SQ,NOTCH) | | |
| VR3 | | | R12-1428-05 | TRIMMING POT. (1K)RIT | | |
| VR4 | | | R12-3450-05 | TRIMMING POT. (20K)VOLTAGE | | |
| VR5 | | | R19-3420-05 | POTENTIOMETER (AF,RF) | | |
| VR6 | | | R19-3418-05 | POTENTIOMETER (RIT,IF SHIFT) | | |
| VR7 | | | R12-1435-05 | TRIMMING POT. (2K)VCO4 | | |
| VR10 | | | R12-0405-05 | TRIMMING POT. (330) | | |
| VR11 | | | R12-5402-05 | TRIMMING POT. (220K) | | |
| VR12 | | * | R12-3435-05 | TRIMMING POT. (47K) | | |
| VR13 | | | R12-1418-05 | TRIMMING POT. (1K) | | |
| VR14 | | | R12-1419-05 | TRIMMING POT. (1K) | | |
| W1 ,2 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W7 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W13 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W15 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| RL1 | | * | S51-1429-05 | RELAY | | |
| RL2 | | | S51-1420-05 | RELAY | | |
| S1 | | | S01-2425-05 | ROTARY SWITCH (SELECT) | | |
| S2 | | * | S31-4405-05 | SLIDE SWITCH | | |
| D1 | | | 1S1555 | DIODE | | |
| D2 | | | MTZ7.5JA | ZENER DIODE | | |
| D5 -12 | | | 1SS133 | DIODE | | |
| D13 | | | S31C | DIODE | | |
| D15 -18 | | | 1SS133 | DIODE | | |
| IC1 | | | AN7808 | IC(VOLTAGE REGULATOR/ +8V) | | |
| IC2 ,3 | | | AN7805 | IC(VOLTAGE REGULATOR/ +5V) | | |
| IC4 | | * | LM2931Z-5.0 | IC(DROPOUT CONTROL)R/ +5V) | | |
| IC5 | | | NJM2904S | IC(OP AMP X2) | | |
| IC6 | | | AN7805 | IC(VOLTAGE REGULATOR/ +5V) | | |
| IC7 | | | NJM2903S | IC(DUAL COMPALATOR) | | |
| IC8 | | | NJM2904S | IC(OP AMP X2) | | |
| Q1 | | | DTC114ES | DIGITAL TRANSISTOR | | |
| Q2 | | | 2SD1406(Y) | TRANSISTOR | | |
| Q3 ,4 | | | 2SK30(GR) | FET | | |

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|---|---|---|---|---|---|---|
| Q5 ,6 | | | 2SC2458(Y) | TRANSISTOR | | |
| **RF UNIT (X44-1680-00)** | | | | | | |
| C1 | | | CC45SL1H390J | CERAMIC 39PF J | | |
| C2 | | | CC45SL1H121J | CERAMIC 120PF J | | |
| C3 | | | CC45RH1H330J | CERAMIC 33PF J | | |
| C4 | | | CK45F1H473Z | CERAMIC 0.047UF Z | | |
| C6 | | | C91-1008-05 | CERAMIC 0.022UF K | | |
| C7 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C8 | | * | C91-1065-05 | CERAMIC 0.0068UF K | | |
| C9 ,10 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C11 | | | CK45F1H103Z | CERAMIC 0.010UF Z | | |
| C12 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C13 | | | C91-0105-05 | CERAMIC 0.0047UF K | | |
| C14 | | | CQ92M1H123K | MYLAR 0.012UF K | | |
| C15 ,16 | | | CQ92M1H153K | MYLAR 0.015UF K | | |
| C17 | | | CE04W1H010M | ELECTRO 1.0UF 50WV | | |
| C18 | | | C91-1008-05 | CERAMIC 0.022UF K | | |
| C19 ,20 | | | CQ92M1H153K | MYLAR 0.015UF K | | |
| C21 | | | CK45B1H152K | CERAMIC 1500PF K | | |
| C22 | | | C91-0125-05 | CERAMIC 0.0027UF K | | |
| C23 | | | CK45B1H152K | CERAMIC 1500PF K | | |
| C24 | | | CE04WC1H010M | ELECTRO H01UF C1 | | |
| C25 | | | C91-1008-05 | CERAMIC 0.022UF K | | |
| C26 | | | CE04WC1H010M | ELECTRO H01UF C1 | | |
| C27 | | | C91-1008-05 | CERAMIC 0.022UF K | | |
| C28 ,29 | | | CK45B1H222K | CERAMIC 2200PF K | | |
| C30 | | | CK45B1H821K | CERAMIC 820PF K | | |
| C31 | | * | C91-1064-05 | CERAMIC 0.0039UF K | | |
| C32 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C33 | | | CK45B1H821K | CERAMIC 820PF K | | |
| C34 | | | CE04W1H010M | ELECTRO 1.0UF 50WV | | |
| C35 | | | C91-1008-05 | CERAMIC 0.022UF K | | |
| C37 | | | CK45B1H152K | CERAMIC 1500PF K | | |
| C38 | | | CK45B1H681K | CERAMIC 680PF K | | |
| C39 | | * | C91-1063-05 | CERAMIC 0.0033UF K | | |
| C40 | | | CK45B1H561K | CERAMIC 560PF K | | |
| C41 | | | CK45B1H152K | CERAMIC 1500PF K | | |
| C42 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C43 | | | CE04W1H010M | ELECTRO 1.0UF 50WV | | |
| C44 | | | C91-1008-05 | CERAMIC 0.022UF K | | |
| C45 | | | CK45B1H182K | CERAMIC 1800PF K | | |
| C46 | | | CC45SL1H331J | CERAMIC 330PF J | | |
| C47 | | * | C91-1063-05 | CERAMIC 0.0033UF K | | |
| C48 | | | CC45SL1H271J | CERAMIC 270PF J | | |
| C49 | | | CK45B1H152K | CERAMIC 1500PF K | | |
| C50 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C51 | | | CE04W1H010M | ELECTRO 1.0UF 50WV | | |
| C52 | | | C91-1008-05 | CERAMIC 0.022UF K | | |
| C53 | | | CK45B1H152K | CERAMIC 1500PF K | | |
| C54 | | | CC45CH1H101J | CERAMIC 100PF J | | |
| C55 | | | C91-0125-05 | CERAMIC 0.0027UF K | | |
| C56 | | | CC45SL1H101J | CERAMIC 100PF J | | |
| C57 | | | CK45B1H122K | CERAMIC 1200PF K | | |
| C58 | | | C91-0119-05 | CERAMIC 0.047UF K | | |

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|---|---|---|---|---|---|---|---|
| C59 | | | CE04W1H010M | ELECTRO | 1.0UF 50WV | | |
| C60 | | | C91-1008-05 | CERAMIC | 0.022UF K | | |
| C61 | | | CK45B1H681K | CERAMIC | 680PF K | | |
| C62 | | | CC45SL1H151J | CERAMIC | 150PF J | | |
| C63 | | | CK45B1H152K | CERAMIC | 1500PF K | | |
| C64 | | | CC45SL1H151J | CERAMIC | 150PF J | | |
| C65 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C66 | | | CE04W1H010M | ELECTRO | 1.0UF 50WV | | |
| C67 | | | C91-1008-05 | CERAMIC | 0.022UF K | | |
| C68 | | | CK45B1H471K | CERAMIC | 470PF K | | |
| C69 | | * | CC45SL1H111J | CERAMIC | 110PF J | | |
| C70 | | | CK45B1H821K | CERAMIC | 820PF K | | |
| C71 | | | CC45SL1H151J | CERAMIC | 150PF J | | |
| C72 | | | CK45B1H471K | CERAMIC | 470PF K | | |
| C73 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C74 | | | CE04W1H010M | ELECTRO | 1.0UF 50WV | | |
| C75 | | | C91-1008-05 | CERAMIC | 0.022UF K | | |
| C76 | | | CC45SL1H221J | CERAMIC | 220PF J | | |
| C77 | | | CC45SL1H910J | CERAMIC | 91PF J | | |
| C78 | | | CK45B1H681K | CERAMIC | 680PF K | | |
| C79 | | | CC45SL1H910J | CERAMIC | 91PF J | | |
| C80 | | | CC45SL1H331J | CERAMIC | 330PF J | | |
| C81 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C82 | | | CE04W1H010M | ELECTRO | 1.0UF 50WV | | |
| C83 | | | C91-1008-05 | CERAMIC | 0.022UF K | | |
| C84 | | | CC45SL1H121J | CERAMIC | 120PF J | | |
| C85 ,86 | | | CC45SL1H470J | CERAMIC | 47PF J | | |
| C87 | | | CC45SL1H080D | CERAMIC | 8.0PF D | | |
| C88 | | | CC45SL1H820J | CERAMIC | 82PF J | | |
| C89 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C90 | | | CE04W1H010M | ELECTRO | 1.0UF 50WV | | |
| C91 | | | C91-1008-05 | CERAMIC | 0.022UF K | | |
| C92 | | * | CE04WC1H010M | ELECTRO | H01UF C1 | | |
| C93 | | | C91-1008-05 | CERAMIC | 0.022UF K | | |
| C94 | | | CC45SL1H680J | CERAMIC | 68PF J | | |
| C95 | | | CK45B1H181K | CERAMIC | 180PF K | | |
| C96 | | | C91-1008-05 | CERAMIC | 0.022UF K | | |
| C97 ,98 | | | C91-0105-05 | CERAMIC | 0.0047UF K | | |
| C99 ,100 | | | C91-1008-05 | CERAMIC | 0.022UF K | | |
| C101 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C103 | | | CC45SL1H330J | CERAMIC | 33PF J | | |
| C104 | | | C91-0117-05 | CERAMIC | 0.01UF K | | |
| C105 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C106-108 | | | C91-0117-05 | CERAMIC | 0.01UF K | | |
| C109 | | | C91-0769-05 | CERAMIC | 0.01UF M | | |
| C110 | | | C91-1008-05 | CERAMIC | 0.022UF K | | |
| C111 | | | C91-0117-05 | CERAMIC | 0.01UF K | | |
| C112 | | | CK45B1H102K | CERAMIC | 1000PF K | | |
| C113 | | | C91-0117-05 | CERAMIC | 0.01UF K | | |
| C114 | | | C91-0769-05 | CERAMIC | 0.01UF M | | |
| C115,116 | | | C91-0117-05 | CERAMIC | 0.01UF K | | |
| C117 | | | C91-1008-05 | CERAMIC | 0.022UF K | | |
| C118 | | | C91-0117-05 | CERAMIC | 0.01UF K | | |
| C119 | | | C91-0757-05 | CERAMIC | 0.001UF K | | |
| C120 | | | CC45SL1H470J | CERAMIC | 47PF J | | |

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|---|---|---|---|---|---|---|---|---|
| C121 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C122 | | | CC45SL1H470J | CERAMIC | 47PF | J | | |
| C123 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C124 | | | CC45SL1H100D | CERAMIC | 10PF | D | | |
| C125 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C126 | | | CE04W1H100M | ELECTRO | 10UF | 50WV | | |
| C127 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C128 | | | CC45SL1H040C | CERAMIC | 4.0PF | C | | |
| C129-132 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C133 | | | CC45SL1H101J | CERAMIC | 100PF | J | | |
| C134 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C135 | | | CC45SL1H121J | CERAMIC | 120PF | J | | |
| C136 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C137 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C138-142 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C143-145 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C146 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C147,148 | | | C91-1008-05 | CERAMIC | 0.022UF | K | | |
| C149,150 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C151 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C153 | | | C91-1008-05 | CERAMIC | 0.022UF | K | | |
| C154,155 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C156 | | | CC45RH1H020C | CERAMIC | 2.0PF | C | | |
| C157 | | | C91-1008-05 | CERAMIC | 0.022UF | K | | |
| C158 | | | CC45SL1H100D | CERAMIC | 10PF | D | | |
| C159 | | | CC45SL1H120J | CERAMIC | 12PF | J | | |
| C160 | | | C91-1008-05 | CERAMIC | 0.022UF | K | | |
| C161 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C162 | | | CE04W1H2R2M | ELECTRO | 2.2UF | 50WV | | |
| C163 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C164 | | | CK45B1H181K | CERAMIC | 180PF | K | | |
| C165 | | | CK45B1H331K | CERAMIC | 330PF | K | | |
| C166 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C166,167 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C168 | | | CE04W1H100M | ELECTRO | 10UF | 50WV | | |
| C169 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C170 | | | CE04W1A470M | ELECTRO | 47UF | 10WV | | |
| C171 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C172 | | | CE04W1A470M | ELECTRO | 47UF | 10WV | | |
| C173 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C174 | | | CC45TH1H390J | CERAMIC | 39PF | J | | |
| C175 | | | CC45CH1H050C | CERAMIC | 5.0PF | C | | |
| C176 | | | CC45CH1H330J | CERAMIC | 33PF | J | | |
| C177 | | * | C91-0727-05 | CERAMIC | 18PF | J | | |
| C178 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C179 | | | CE04W1A470M | ELECTRO | 47UF | 10WV | | |
| C180 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C181 | | * | CC45SH1H470J | CERAMIC | 47PF | J | | |
| C182 | | | CC45CH1H050C | CERAMIC | 5.0PF | C | | |
| C183 | | | CC45CH1H330J | CERAMIC | 33PF | J | | |
| C184 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C185 | | | CE04W1A470M | ELECTRO | 47UF | 10WV | | |
| C186 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C187 | | | CC45RH1H560J | CERAMIC | 56PF | J | | |
| C188 | | | CC45CH1H050C | CERAMIC | 5.0PF | C | | |

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|---|---|---|---|---|---|---|
| C189 | | | CC45CH1H330J | CERAMIC 33PF J | | |
| C190,191 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C192 | | | CE04W1A470M | ELECTRO 47UF 10WV | | |
| C193 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C194 | | | CC45RH1H680J | CERAMIC 68PF J | | |
| C195 | | | CC45CH1H050C | CERAMIC 5.0PF C | | |
| C196 | | | CC45CH1H330J | CERAMIC 33PF J | | |
| C197 | | | CC45CH1H050C | CERAMIC 5.0PF C | | |
| C198 | | | CK45F1H103Z | CERAMIC 0.010UF Z | | |
| C199 | | | CC45SL1H220J | CERAMIC 22PF J | | |
| C200 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C202 | | | CC45SL1H330J | CERAMIC 33PF J | | |
| C203 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C204 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C205 | | | C91-0747-05 | CERAMIC 150PF K | | |
| C206 | | | CC45SL1H270J | CERAMIC 27PF J | | |
| C207 | | | CC45SL1H331J | CERAMIC 330PF J | | |
| C208 | | | CC45SL1H470J | CERAMIC 47PF J | | |
| C209-213 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C214 | | * | C91-0714-05 | CERAMIC 2.7PF K | | |
| C215,216 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C217 | | | CK45B1H102K | CERAMIC 1000PF K | | |
| C218 | | | CK45B1H331K | CERAMIC 330PF K | | |
| C219 | | | CE04W1H010M | ELECTRO 1.0UF 50WV | | |
| C220 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C221 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C222,223 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C224 | | | CE04W1H010M | ELECTRO 1.0UF 50WV | | |
| C225 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C226 | | | CE04W1H010M | ELECTRO 1.0UF 50WV | | |
| C227 | | | CC45SL1H101J | CERAMIC 100PF J | | |
| C228 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C229 | | | CS15E1VR47M | TANTAL 0.47UF 35WV | | |
| C230 | | | CQ92M1H392K | MYLAR 3900PF K | | |
| C231 | | | CE04W1A470M | ELECTRO 47UF 10WV | | |
| C232 | | | CE04W1H0R1M | ELECTRO 0.1UF 50WV | | |
| C233 | | | CK45B1H471K | CERAMIC 470PF K | | |
| C235 | | | CE04W1H100M | ELECTRO 10UF 50WV | | |
| C236 | | | CQ92M1H333K | MYLAR 0.033UF K | | |
| C237 | | | CE04W1H100M | ELECTRO 10UF 50WV | | |
| C238 | | | CS15E1A2R2M | TANTAL 2.2UF 10WV | | |
| C239 | | | CQ92M1H102K | MYLAR 1000PF K | | |
| C240 | | | CQ92M1H123K | MYLAR 0.012UF K | | |
| C241 | | | CK45F1H223Z | CERAMIC 0.022UF Z | | |
| C242-247 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C249 | | | CC45SL1H470J | CERAMIC 47PF J | | |
| C250 | | | CC45RH1H020C | CERAMIC 2.0PF C | | |
| C251 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C252 | | * | CE04WC1H010M | ELECTRO H01UF C1 | | |
| C253,254 | | | C91-1008-05 | CERAMIC 0.022UF K | | |
| TC1 | | | C05-0328-05 | TRIMMING CAP (50PF) | | |
| - | | | E04-0157-05 | RF COAXIAL CABLE RECEPTACLE(X3 | | |
| - | | | E23-0512-05 | TERMINAL | | |
| - | | | E31-1448-05 | CONNECTING WIRE | | |

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|---|---|---|---|---|---|---|
| J1 | | | E40-1173-05 | PIN CONNECTOR | | |
| J2 | | | E40-0473-05 | PIN CONNECTOR (MINI,4P) | | |
| J3 ,4 | | | E40-0273-05 | PIN CONNECTOR (MINI,2P) | | |
| J6 | | | E40-0573-05 | PIN CONNECTOR | | |
| J7 -9 | | | E40-0273-05 | PIN CONNECTOR (MINI,2P) | | |
| J11 | | | E40-0273-05 | PIN CONNECTOR (MINI,2P) | | |
| J12 | | | E40-0473-05 | PIN CONNECTOR (MINI,4P) | | |
| J14 | | | E40-0373-05 | PIN CONNECTOR (MINI,3P) | | |
| J14 | | | E40-0673-05 | PIN CONNECTOR | | |
| J15 ,16 | | | E40-0473-05 | PIN CONNECTOR (MINI,4P) | | |
| - | | | J32-0795-04 | HEX BOSS | | |
| - | | | L92-0110-05 | BEAD CORE (FOR L77,L78) | | |
| F1 | | * | L71-0259-05 | CRYSTAL FILTER (45.05MHZ) | | |
| F2 | | * | L71-0260-05 | CRYSTAL FILTER (8.83MHZ) | | |
| L1 | | | L40-1511-13 | SMALL FIXED INDUCTOR(150UH) | | |
| L3 | | | L40-3382-14 | SMALL FIXED INDUCTOR(0.33UH) | | |
| L4 | | | L40-2282-14 | SMALL FIXED INDUCTOR(0.22UH) | | |
| L5 -8 | | | L40-2292-14 | SMALL FIXED INDUCTOR(1.2UH) | | |
| L9 | | | L40-1011-13 | SMALL FIXED INDUCTOR(100UH) | | |
| L10 | | | L40-1021-03 | SMALL FIXED INDUCTOR(1MHZ) | | |
| L11 | | | L40-1021-13 | SMALL FIXED INDUCTOR(1MHZ) | | |
| L12 ,13 | | | L40-2701-14 | SMALL FIXED INDUCTOR(27UH) | | |
| L14 | | | L40-2201-14 | SMALL FIXED INDUCTOR(22UH) | | |
| L15 ,16 | | | L40-4701-14 | SMALL FIXED INDUCTOR(47UH) | | |
| L17 | | | L40-1001-14 | SMALL FIXED INDUCTOR(10UH) | | |
| L18 | | | L40-8291-14 | SMALL FIXED INDUCTOR(8.2UH) | | |
| L20 | | | L40-8291-14 | SMALL FIXED INDUCTOR(8.2UH) | | |
| L21 | | | L40-2792-14 | SMALL FIXED INDUCTOR(2.7UH) | | |
| L22 | | | L40-1592-14 | SMALL FIXED INDUCTOR(1.5UH) | | |
| L23 | | | L40-8291-14 | SMALL FIXED INDUCTOR(8.2UH) | | |
| L24 | | | L40-1021-13 | SMALL FIXED INDUCTOR(1MHZ) | | |
| L25 | | | L40-2792-14 | SMALL FIXED INDUCTOR(2.7UH) | | |
| L26 ,27 | | | L40-5691-14 | SMALL FIXED INDUCTOR(5.6UH) | | |
| L28 | | | L40-1892-14 | SMALL FIXED INDUCTOR(1.8UH) | | |
| L29 | | | L40-1092-14 | SMALL FIXED INDUCTOR(1UHZ) | | |
| L30 | | | L40-1892-14 | SMALL FIXED INDUCTOR(1.8UH) | | |
| L31 | | | L40-1021-13 | SMALL FIXED INDUCTOR(1MHZ) | | |
| L32 ,33 | | | L40-3991-14 | SMALL FIXED INDUCTOR(3.9UH) | | |
| L34 | | | L40-6882-14 | SMALL FIXED INDUCTOR(0.68UH) | | |
| L35 | | | L40-3982-14 | SMALL FIXED INDUCTOR(0.39UH) | | |
| L36 | | | L40-6882-14 | SMALL FIXED INDUCTOR(0.68UH) | | |
| L37 | | | L40-1021-13 | SMALL FIXED INDUCTOR(1MHZ) | | |
| L38 ,39 | | | L40-5691-14 | SMALL FIXED INDUCTOR(5.6UH) | | |
| L40 | | | L40-3982-14 | SMALL FIXED INDUCTOR(0.39UH) | | |
| L41 | | | L40-2282-14 | SMALL FIXED INDUCTOR(0.22UH) | | |
| L42 | | | L40-3982-14 | SMALL FIXED INDUCTOR(0.39UH) | | |
| L43 | | | L40-1021-13 | SMALL FIXED INDUCTOR(1MHZ) | | |
| L44 ,45 | | | L40-2292-14 | SMALL FIXED INDUCTOR(1.2UH) | | |
| L46 | | | L40-4782-14 | SMALL FIXED INDUCTOR(0.47UH) | | |
| L47 | | * | L40-2782-14 | SMALL FIXED INDUCTOR(0.27UH) | | |
| L48 | | | L40-4782-14 | SMALL FIXED INDUCTOR(0.47UH) | | |
| L49 | | | L40-1021-13 | SMALL FIXED INDUCTOR(1MHZ) | | |
| L50 | | | L40-1592-14 | SMALL FIXED INDUCTOR(1.5UH) | | |
| L51 | | | L40-1092-14 | SMALL FIXED INDUCTOR(1UHZ) | | |

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|---|---|---|---|---|---|---|
| L52 | | | L40-3982-14 | SMALL FIXED INDUCTOR(0.39UH) | | |
| L53 | | | L40-2282-14 | SMALL FIXED INDUCTOR(0.22UH) | | |
| L54 | | | L40-3982-14 | SMALL FIXED INDUCTOR(0.39UH) | | |
| L55 | | | L40-1021-13 | SMALL FIXED INDUCTOR(1MHZ) | | |
| L56 ,57 | | | L40-1092-14 | SMALL FIXED INDUCTOR(1UHZ) | | |
| L58 | | | L40-3982-14 | SMALL FIXED INDUCTOR(0.39UH) | | |
| L59 | | * | L34-1163-05 | COIL | | |
| L60 | | | L40-3982-14 | SMALL FIXED INDUCTOR(0.39UH) | | |
| L61 | | | L40-1021-13 | SMALL FIXED INDUCTOR(1MHZ) | | |
| L62 | | * | L40-2782-14 | SMALL FIXED INDUCTOR(0.27UH) | | |
| L63 | | | L40-8282-14 | SMALL FIXED INDUCTOR(0.82UH) | | |
| L64 | | | L40-2282-14 | SMALL FIXED INDUCTOR(0.22UH) | | |
| L65 | | | L40-3982-14 | SMALL FIXED INDUCTOR(0.39UH) | | |
| L66 | | | L40-1021-13 | SMALL FIXED INDUCTOR(1MHZ) | | |
| L67 | | | L40-1021-03 | SMALL FIXED INDUCTOR(1MHZ) | | |
| L68 | | | L40-2211-03 | SMALL FIXED INDUCTOR | | |
| L69 | | | L40-3382-14 | SMALL FIXED INDUCTOR(0.33UH) | | |
| L70 | | | L40-1011-14 | SMALL FIXED INDUCTOR(100UH) | | |
| L71 | | | L40-4701-03 | SMALL FIXED INDUCTOR(47UH) | | |
| L72 -76 | | | L40-1011-14 | SMALL FIXED INDUCTOR(100UH) | | |
| L79 -84 | | | L40-1011-14 | SMALL FIXED INDUCTOR(100UH) | | |
| L86 | | | L40-1011-14 | SMALL FIXED INDUCTOR(100UH) | | |
| L87 | | | L40-2201-14 | SMALL FIXED INDUCTOR(22UH) | | |
| L88 | | | L40-6891-14 | SMALL FIXED INDUCTOR(6.8UH) | | |
| L89 | | | L40-2292-14 | SMALL FIXED INDUCTOR(1.2UH) | | |
| L90 | | * | L34-1162-05 | COIL | | |
| L91 | | | L40-1011-14 | SMALL FIXED INDUCTOR(100UH) | | |
| L92 | | * | L40-6891-14 | SMALL FIXED INDUCTOR(6.8UH) | | |
| L93 -96 | | | L40-4701-14 | SMALL FIXED INDUCTOR(47UH) | | |
| L97 | | | L40-1011-14 | SMALL FIXED INDUCTOR(100UH) | | |
| L98 | | | L40-1511-14 | SMALL FIXED INDUCTOR(150UH) | | |
| L99 -84 | | | L40-1011-14 | SMALL FIXED INDUCTOR(100UH) | | |
| L100 | | | L40-4782-14 | SMALL FIXED INDUCTOR(0.47UH) | | |
| L101 | | | L40-1011-14 | SMALL FIXED INDUCTOR(100UH) | | |
| L102 | | | L40-3382-14 | SMALL FIXED INDUCTOR(0.33UH) | | |
| L103 | | | L40-2282-14 | SMALL FIXED INDUCTOR(0.22UH) | | |
| L104,105 | | | L40-3382-14 | SMALL FIXED INDUCTOR(0.33UH) | | |
| L106 | | | L40-1511-14 | SMALL FIXED INDUCTOR(150UH) | | |
| L107 | | | L40-1021-13 | SMALL FIXED INDUCTOR(1MHZ) | | |
| L108 | | | L40-1011-14 | SMALL FIXED INDUCTOR(100UH) | | |
| L109 | | | L40-1011-13 | SMALL FIXED INDUCTOR(100UH) | | |
| L110-111 | | | L40-1011-14 | SMALL FIXED INDUCTOR(100UH) | | |
| L112-115 | | | L40-4701-13 | SMALL FIXED INDUCTOR(47UH) | | |
| T1 | | * | L34-2266-05 | COIL (45.05MHZ) | | |
| T2 | | * | L19-0361-05 | BALUN TRANSFORMER(RX MIX) | | |
| T3 | | | L34-2267-05 | COIL (45.05MHZ) | | |
| T4 | | | L34-2268-05 | COIL (45.05MHZ) | | |
| T5 | | | L34-2145-05 | COIL (45.05MHZ) | | |
| T6 | | * | L34-2283-05 | COIL (45.05MHZ) | | |
| T7 | | | L34-2267-05 | COIL (45.05MHZ) | | |
| T8 | | | L30-0506-05 | IFT (8.83MHZ) | | |
| T9 | | | L34-2159-05 | COIL (8.83MHZ) | | |
| T10 ,11 | | | L34-0942-05 | COIL (8.83MHZ) | | |
| T12 | | * | L34-2284-05 | COIL (8.83MHZ) | | |
| T13 | | * | L34-2285-05 | COIL (8.83MHZ) | | |

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|---|---|---|---|---|---|---|
| T14 | | * | L34-2286-05 | COIL (36.22MHZ) | | |
| T15 | | * | L34-2287-05 | COIL (36.22MHZ) | | |
| T16 | | * | L34-2288-05 | COIL (45.05MHZ) | | |
| T17 | | * | L34-2289-05 | COIL (45.05MHZ) | | |
| T18 ,19 | | | L19-0324-05 | BALUN TRANSFORMER(TX MIX,DRIVE | | |
| T20 | | * | L19-0362-05 | BALUN TRANSFORMER(TX DRIVE) | | |
| T21 ,22 | | * | L34-2290-05 | COIL (VCO,HH.H) | | |
| T23 | | * | L34-2277-05 | COIL (VCO L) | | |
| T24 | | * | L34-2278-05 | COIL (VCO LL) | | |
| T25 | | | L19-0344-05 | BALUN TRANSFORMER(PLL) | | |
| T26 | | | L34-0535-05 | COIL (8.83MHZ) | | |
| T27 | | | L34-0536-05 | COIL (8.83MHZ) | | |
| - | | | N10-2026-46 | HEX NUT | | |
| IB1 | | | R90-0188-05 | MULTI-COMP 0.01UF X4 | | |
| R184 | | * | R90-0454-05 | MULTI-COMP | | |
| VR1 | | * | R12-0435-05 | TRIMMING POT.(1ST MIX BALANCE) | | |
| VR2 | | | R12-1431-05 | TRIMMING POT.(2ND MIX BALANCE) | | |
| VR3 | | | R12-4413-05 | TRIMMING POT.(FM DEV) | | |
| VR4 | | | R12-1431-05 | TRIMMING POT.(SQURIOUS) | | |
| VR5 | | | R12-4414-05 | TRIMMING POT.(TX AMP) | | |
| VR6 | | | R12-3447-05 | TRIMMING POT.(FM DEV) | | |
| W5 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W23 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W27 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W32 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W100 | | | R92-1061-05 | JUMPER REST 0OHM | | |
| RL1 | | | S51-1404-05 | RELAY (G2E,12V) | | |
| D1 | | | 1S1555 | DIODE | | |
| D2 ,3 | | * | US1090 | DIODE | | |
| D4 | | | 1S2588 | DIODE | | |
| D5 | | | BA282 | DIODE | | |
| D6 | | | 1S2588 | DIODE | | |
| D7 | | | BA282 | DIODE | | |
| D8 | | | 1S2588 | DIODE | | |
| D9 | | | BA282 | DIODE | | |
| D10 | | | 1S2588 | DIODE | | |
| D11 | | | BA282 | DIODE | | |
| D12 | | | 1S2588 | DIODE | | |
| D13 | | | BA282 | DIODE | | |
| D14 | | | 1S2588 | DIODE | | |
| D15 | | | BA282 | DIODE | | |
| D16 | | | 1S2588 | DIODE | | |
| D17 | | | BA282 | DIODE | | |
| D18 | | | 1S2588 | DIODE | | |
| D19 | | | BA282 | DIODE | | |
| D20 | | | 1S2588 | DIODE | | |
| D21 | | | BA282 | DIODE | | |
| D22 | | | 1S2588 | DIODE | | |
| D23 | | | BA282 | DIODE | | |
| D24 | | | 1SS133 | DIODE | | |
| D25 | | * | MA858 | DIODE | | |
| D26 -29 | | | BA282 | DIODE | | |

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|---|---|---|---|---|---|---|
| D30 -33 | | | 1S1587 | DIODE | | |
| D34 -37 | | * | MA858 | DIODE | | |
| D38 | | * | MA858 | DIODE | | |
| D39 | | | 1SS133 | DIODE | | |
| D40 | | | BA282 | DIODE | | |
| D41 | | * | MA858 | DIODE | | |
| D42 ,43 | | * | MA858 | DIODE | | |
| D44 | | | ITT310TE | VOLTAGE VALIAVLE CAP. | | |
| D45 | | * | MA858 | DIODE | | |
| D46 | | | ITT310TE | VOLTAGE VALIAVLE CAP. | | |
| D47 | | * | MA858 | DIODE | | |
| D48 | | | ITT310TE | VOLTAGE VALIAVLE CAP. | | |
| D49 | | * | MA858 | DIODE | | |
| D50 | | | ITT310TE | VOLTAGE VALIAVLE CAP. | | |
| D51 | | * | MA858 | DIODE | | |
| D52 ,53 | | | 1N60 | DIODE | | |
| D54 | | | MV13 | VARISTOR | | |
| D56 -58 | | | 1SS133 | DIODE | | |
| D59 | | * | UZ3.0B | ZENER DIODE | | |
| D67 | | | DAN401 | DIODE | | |
| D68 | | * | US1090 | DIODE | | |
| D69 | | * | DSP-301N | SERGE ABSORBER | | |
| D60 66 | | | 1SS133 | DIODE | | |
| Q1 | | | 2SC2459(BL) | TRANSISTOR | | |
| Q2 | | | 2SA562(Y) | TRANSISTOR | | |
| Q3 ,4 | | | 2SK125-5 | FET | | |
| Q5 | | | 3SK74(L) | FET | | |
| Q6 ,7 | | | 2SK125-5 | FET | | |
| Q8 ,9 | | | 2SC2668(Y) | TRANSISTOR | | |
| Q10 ,11 | | | 3SK122(L) | FET | | |
| Q12 | | | 2SC2668(Y) | TRANSISTOR | | |
| Q13 ,14 | | | 3SK122(L) | FET | | |
| Q15 | | | 2SC2570A | TRANSISTOR | | |
| Q16 | | | 2SC2538 | TRANSISTOR | | |
| Q17 -20 | | | DTC143TS | DIGITAL TRANSISTOR | | |
| Q21 -25 | | | 2SC2668(Y) | TRANSISTOR | | |
| Q26 | | | 2SC1959(Y) | TRANSISTOR | | |
| Q27 | | | 2SC2053 | TRANSISTOR | | |
| Q28 | | | 2SK192A(GR) | FET | | |
| Q29 -31 | | | 2SC2668(Y) | TRANSISTOR | | |
| Q32 ,33 | | | 2SC2603(E) | TRANSISTOR | | |
| Q34 | | | DTC124ES | DIGITAL TRANSISTOR | | |
| Q35 | | | 2SC2603(E) | TRANSISTOR | | |
| Q36 | | | 2SC2459(BL) | TRANSISTOR | | |
| Q37 | | | 2SC2603(E) | TRANSISTOR | | |
| Q38 | | | UPC4558C | IC(OP AMP X2) | | |
| Q39 | | | 2SC2603(E) | TRANSISTOR | | |
| Q40 | | | M74LS145P | IC(DECIMAL DECODER/DRIVER BCD) | | |
| Q40 | | | SN74LS145N | IC(DUAL MONO MALTI) | | |
| Q41 | | | M54561P | IC(7CH LED DRIVER) | | |
| Q45 | | | 2SA562(Y) | TRANSISTOR | | |
| Q46 | | | DTC124ES | DIGITAL TRANSISTOR | | |
| **FINAL UNIT (X45-1470-00)** | | | | | | |
| C1 | | | CK45B1H561K | CERAMIC 560PF K | | |

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|---|---|---|---|---|---|---|
| C2 | | | CK45F1H103Z | CERAMIC 0.010UF Z | | |
| C3 | | | CK45F1H223Z | CERAMIC 0.022UF Z | | |
| C4 | | | CK45B1H102K | CERAMIC 1000PF K | | |
| C5 -7 | | | CK45F1H473Z | CERAMIC 0.047UF Z | | |
| C8 ,9 | | | CK45F1H223Z | CERAMIC 0.022UF Z | | |
| C11 | | | CM93D2H681J | MICA 680PF J | | |
| C12 ,13 | | | C91-1004-05 | CERAMIC 0.0068UF J | | |
| C14 | | | CM73F2H122J | CHIP C 1200PF J | | |
| C15 | | | CC45SL2H151J | CERAMIC 150PF J | | |
| C17 | | | CK45F1H473Z | CERAMIC 0.047UF Z | | |
| C18 | | | CE04W1C100M | ELECTRO 10UF 16WV | | |
| C19 | | | CK45F1H223Z | CERAMIC 0.022UF Z | | |
| C20 | | | CE04W1E470M | ELECTRO 47UF 25WV | | |
| C21 | | | CK45F1H223Z | CERAMIC 0.022UF Z | | |
| C22 | | | CK45B1H102K | CERAMIC 1000PF K | | |
| C23 | | | CK45F1H473Z | CERAMIC 0.047UF Z | | |
| C24 | | | CE04W1C100M | ELECTRO 10UF 16WV | | |
| C25 | | | CE04W1E101M | ELECTRO 100UF 25WV | | |
| C26 ,27 | | | CK45F1H473Z | CERAMIC 0.047UF Z | | |
| C28 ,29 | | | CK45F1H103Z | CERAMIC 0.010UF Z | | |
| C31 | | | CK45F1H473Z | CERAMIC 0.047UF Z | | |
| C32 | | | CK45F1H223Z | CERAMIC 0.022UF Z | | |
| C33 | | | CE04W1E470M | ELECTRO 47UF 25WV | | |
| J30 | 2M | | E04-0152-05 | RF COAXIAL CABLE RECEPTACLE | | |
| J32 | 2O | | E08-0671-05 | RECTANGULAR RECEPTACLE(6P) | | |
| - | | | E04-0157-05 | RF COAXIAL CABLE RECEPTACLE | | |
| MC1 | | | E40-0273-05 | PIN CONNECTOR | | |
| J36 | 2M | | F09-0410-04 | FAN | | |
| - | | * | F01-0937-05 | HEAT SINK | | |
| - | | | F20-0078-05 | INSULATING BOARD | | |
| - | | | F29-0014-05 | INSULATOR | | |
| J42 | 2M | | G02-0549-04 | FLAT SPRING | | |
| J45 | 2N | | J21-4153-14 | FAN MOUNTING HARDWARE | | |
| - | | | L92-0102-05 | TROIDAL CORE (FOR L6,7,11) | | |
| - | | | L92-0106-05 | TROIDAL CORE (FOR T1) | | |
| - | | | L92-0106-05 | TROIDAL CORE (FOR L13) | | |
| L1 | | | L40-1511-13 | SMALL FIXED INDUCTOR | | |
| L2 ,3 | | | L33-0651-05 | CHOKE COIL | | |
| L4 ,5 | | | L33-0232-05 | CHOKE COIL (1UH) | | |
| L6 ,7 | | | L33-0617-05 | CHOKE COIL | | |
| L8 -10 | | | L33-0651-05 | CHOKE COIL | | |
| L11 | | | L33-0617-05 | CHOKE COIL | | |
| L12 | | | L40-1011-13 | SMALL FIXED INDUCTOR | | |
| L13 | | * | L39-0424-05 | COIL | | |
| T1 | | | L19-0340-05 | BALUN TRANSFORMER | | |
| T2 | | | L19-0338-05 | INPUT TRANSFORMER | | |
| T3 | | | L19-0342-05 | DRIVE TRANSFORMER | | |
| T4 | | * | L19-0363-05 | FINAL TRANSFORMER | | |
| J50 | 1N | | N14-0115-05 | NUT | | |
| J51 | 1N | | N14-0509-05 | NUT | | |
| J52 | 1N | | N15-1040-46 | FLAT WASHER | | |
| A | 2M,1N | | N89-3006-46 | BINDING HEAD TAPTITE SCREW | | |
| AA | 1O | | N09-0256 05 | SCREW (GND) | | |

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|---|---|---|---|---|---|---|
| CC | 2M | | N09-0658-04 | SCREW | | |
| VV | 2Ø | | N09-0372-04 | SCREW (PULLEY) | | |
| WW | 1M | | N09-0682-04 | SCREW | | |
| Y | 1N,2N | | N30-3008-46 | PAN HEAD MACHINE SCREW | | |
| Z | 2Ø | | N30-4005-46 | PAN HEAD MACHINE SCREW | | |
| R3 | | | RC05GF2H3R9J | RC 3.9 J 1/2W | | |
| R9 ,10 | | | RC05GF2H181J | RC 180 J 1/2W | | |
| R11 -14 | | | RS14AB3A5R6J | FL-PRØØF RS 5.6 J 1W | | |
| R15 ,16 | | | RC05GF2H15ØJ | RC 15 J 1/2W | | |
| R17 ,18 | | | RS14AB3A5R6J | FL-PRØØF RS 5.6 J 1W | | |
| R33 | | | RC05GF2H1ØØJ | RC 10 J 1/2W | | |
| VR1 ,2 | | | R12-1406-05 | TRIMMING PØT.(BACE CURRENT) | | |
| W8 | | | R92-0150-05 | JUMPER REST 0 ØHM | | |
| 155 | 2N | | T42-0302-05 | DC MØTØR ASSY | | |
| D1 | | | MV-5T | VARISTØR | | |
| D2 ,3 | | * | SV03YS | VARISTØR | | |
| D4 | | | 1SS133 | DIØDE | | |
| D4 | | | 1S1555 | DIØDE | | |
| Q1 | | | 2SC2075 | TRANSISTØR | | |
| Q2 ,3 | | | 2SC2509 | TRANSISTØR | | |
| Q4 ,5 | | * | 2SC2879 | TRANSISTØR | | |
| Q6 ,7 | | | 2SD1406(Y) | TRANSISTØR | | |
| Q8 | | | 2SC1815(Y) | TRANSISTØR | | |
| Q9 | | | AN6551 | IC(ØP AMP X2) | | |
| TH1 | | | SDT1ØØØ | THERMISTØR | | |
| TH1 | | * | ST41L | THERMISTØR | | |

## PLL UNIT (X50-2050-00)

| | | | | | | |
|---|---|---|---|---|---|---|
| C1 | | | CQ92M1H223K | MYLAR 0.022UF K | | |
| C2 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C3 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C4 | | | CQ92M1H223K | MYLAR 0.022UF K | | |
| C5 | | | CK45B1H182K | CERAMIC 1800PF K | | |
| C6 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C7 | | | CE04W1A470M | ELECTRØ 47UF 10WV | | |
| C8 | | | CC45RH1H18ØJ | CERAMIC 18PF J | | |
| C9 | | | CC45CH1H1ØØD | CERAMIC 10PF D | | |
| C10 | | | CC45CH1H22ØJ | CERAMIC 22PF J | | |
| C11 | | | CC45CH1H33ØJ | CERAMIC 33PF J | | |
| C12 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C13 | | | CE04W1A470M | ELECTRØ 47UF 10WV | | |
| C14 | | | CC45CH1H05ØC | CERAMIC 5.0PF C | | |
| C15 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C16 | | | CC45SL1H05ØC | CERAMIC 5.0PF C | | |
| C17 | | | CC45SL1H1ØØD | CERAMIC 10PF D | | |
| C18 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C19 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C20 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C21 | | | CE04W1C22ØM | ELECTRØ 22UF 16WV | | |
| C22 ,23 | | | C91-1008-05 | CERAMIC 0.022UF K | | |
| C24 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C25 | | | C91-1008-05 | CERAMIC 0.022UF K | | |
| C26 | | | CK45B1H391K | CERAMIC 390PF K | | |
| C27 | | | CK45B1H821K | CERAMIC 820PF K | | |

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|---|---|---|---|---|---|---|---|---|
| C28 | | | CK45B1H391K | CERAMIC | 390PF | K | | |
| C29 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C30 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C31 ,32 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C33 | | | CC45SL1H390J | CERAMIC | 39PF | J | | |
| C34 | | | CC45SL1H820J | CERAMIC | 82PF | J | | |
| C35 | | | CC45SL1H390J | CERAMIC | 39PF | J | | |
| C36 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C37 | | | C91-1008-05 | CERAMIC | 0.022UF | K | | |
| C38 ,39 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C40 ,41 | | | CQ92M1H223K | MYLAR | 0.022UF | K | | |
| C42 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C43 | | | CK45B1H182K | CERAMIC | 1800PF | K | | |
| C44 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C45 | | | CE04W1A470M | ELECTRO | 47UF | 10WV | | |
| C46 | | | CC45UJ1H220J | CERAMIC | 22PF | J | | |
| C47 | | | CC45CH1H100D | CERAMIC | 10PF | D | | |
| C48 | | | CC45CH1H120J | CERAMIC | 12PF | J | | |
| C49 | | | CC45CH1H220J | CERAMIC | 22PF | J | | |
| C50 | | | CC45SL1H050C | CERAMIC | 5.0PF | C | | |
| C51 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C52 | | | CE04W1A470M | ELECTRO | 47UF | 10WV | | |
| C53 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C54 | | | CC45SL1H050C | CERAMIC | 5.0PF | C | | |
| C55 | | | CC45SL1H100D | CERAMIC | 10PF | D | | |
| C56 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C57 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C58 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C59 | | | C91-1008-05 | CERAMIC | 0.022UF | K | | |
| C60 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C61 | | | CC45SL1H820J | CERAMIC | 82PF | J | | |
| C62 | | | CC45SL1H181J | CERAMIC | 180PF | J | | |
| C63 | | | CC45SL1H820J | CERAMIC | 82PF | J | | |
| C64 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C65 -67 | | | C91-1008-05 | CERAMIC | 0.022UF | K | | |
| C68 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C69 | | | C91-1008-05 | CERAMIC | 0.022UF | K | | |
| C70 ,71 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C72 -75 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C76 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C77 ,78 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C79 ,80 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C81 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C82 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C83 | | | CQ92M1H223K | MYLAR | 0.022UF | K | | |
| C84 | | | CQ92M1H333K | MYLAR | 0.033UF | K | | |
| C85 | | | CK45B1H182K | CERAMIC | 1800PF | K | | |
| C86 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C87 | | | CE04W1A470M | ELECTRO | 47UF | 10WV | | |
| C88 | | | CC45UJ1H330J | CERAMIC | 33PF | J | | |
| C89 | | | CC45CH1H100D | CERAMIC | 10PF | D | | |
| C90 ,91 | | | CC45CH1H220J | CERAMIC | 22PF | J | | |
| C92 | | | CC45CH1H0R5C | CERAMIC | 0.5PF | C | | |
| C93 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C94 | | | CE04W1A470M | ELECTRO | 47UF | 10WV | | |

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|---|---|---|---|---|---|---|---|---|
| C95 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C96 ,97 | | | CC45SL1H100D | CERAMIC | 10PF | D | | |
| C98 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C99 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C100 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C101,102 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C104 | | | CC45SL1H680J | CERAMIC | 68PF | J | | |
| C106 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C108 | | | CC45CH1H100D | CERAMIC | 10PF | D | | |
| C109 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C110 | | | CC45UJ1H180J | CERAMIC | 18PF | J | | |
| C111 | | | CC45CH1H560J | CERAMIC | 56PF | J | | |
| C112 | | | CC45CH1H0R5C | CERAMIC | 0.5PF | C | | |
| C113 | | | CE04W1C220M | ELECTRO | 22UF | 16WV | | |
| C114 | | | CC45SL1H050C | CERAMIC | 5.0PF | C | | |
| C115 | | | CC45SL1H100D | CERAMIC | 10PF | D | | |
| C116 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C117-121 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C122 | | | CC45SL1H101J | CERAMIC | 100PF | J | | |
| C123-128 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C129 | | | CC45SL1H100D | CERAMIC | 10PF | D | | |
| C130 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C131 | | | C91-1008-05 | CERAMIC | 0.022UF | K | | |
| C132 | | | CK45B1H102K | CERAMIC | 1000PF | K | | |
| C133,134 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C135 | | | CK45B1H102K | CERAMIC | 1000PF | K | | |
| C136,137 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C138-141 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C142 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C143 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C144 | | | CK45B1H102K | CERAMIC | 1000PF | K | | |
| C146-148 | | | CC45SL1H101J | CERAMIC | 100PF | J | | |
| C149 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C150 | | | CC45RH1H070D | CERAMIC | 7.0PF | D | | |
| C151 | | | CC45RH1H100D | CERAMIC | 10PF | D | | |
| C152 | | | CC45RH1H050C | CERAMIC | 5.0PF | C | | |
| C153 | | | CC45RH1H100D | CERAMIC | 10PF | D | | |
| C154,155 | | | CC45RH1H080D | CERAMIC | 8.0PF | D | | |
| C156 | | | CC45SL1H680J | CERAMIC | 68PF | J | | |
| C157 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C158 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C159,160 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C161-163 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C165 | | | CS15E1VR33M | TANTAL | 0.33UF | 35WV | | |
| C166 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C167 | | | CE04W1A101M | ELECTRO | 100UF | 10WV | | |
| C168 | | | CK45B1H102K | CERAMIC | 1000PF | K | | |
| C169 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C170 | | | CC45CH1H0R5C | CERAMIC | 0.5PF | C | | |
| C171 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C172 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C173 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C175 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C176 | | | C91-0117-05 | CERAMIC | 0.01UF | K | | |
| C177 | | | C092M1H333K | MYLAR | 0.033UF | K | | |

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|---|---|---|---|---|---|---|
| C178 | | | CS15E1V0R1M | TANTAL 0.1UF 35WV | | |
| C179 | | | CK45B1H182K | CERAMIC 1800PF K | | |
| C180 | | | CE04W1H100M | ELECTRO 10UF 50WV | | |
| C181 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C182 | | | CS15E1VR47M | TANTAL 0.47UF 35WV | | |
| C183 | | | CC45RH1H070D | CERAMIC 7.0PF D | | |
| C184 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C185 | | | CE04W1A470M | ELECTRO 47UF 10WV | | |
| C186 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C187 | | | CC45RH1H060D | CERAMIC 6.0PF D | | |
| C188 | | | CC45CH1H100D | CERAMIC 10PF D | | |
| C189 | | | CC45CH1H220J | CERAMIC 22PF J | | |
| C190 | | | CC45CH1H220J | CERAMIC 22PF J | | |
| C191 | | | CE04W1A470M | ELECTRO 47UF 10WV | | |
| C192 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C193 | | | CC45CH1H010C | CERAMIC 1.0PF C | | |
| C194 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C195 | | | CC45SL1H050C | CERAMIC 5.0PF C | | |
| C196 | | | CC45SL1H101J | CERAMIC 100PF J | | |
| C197 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C198 | | | CK45B1H182K | CERAMIC 1800PF K | | |
| C199 | | * | CC45CH1H090D | CERAMIC 9.0PF D | | |
| C200,201 | | | CC45SL1H560J | CERAMIC 56PF J | | |
| C202,203 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C204 | | | CC45SL1H221J | CERAMIC 220PF J | | |
| C205 | | | CC45CH1H100D | CERAMIC 10PF D | | |
| C206 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| TC1 | | | C05-0035-05 | TRIMMING CAP (50PF) | | |
| - | | | E40-0273-05 | PIN CONNECTOR (MINI,2P) | | |
| - | | | E40-0274-05 | PIN CONNECTOR (MINI,2P) | | |
| - | | | E40-0473-05 | PIN CONNECTOR (MINI,4P) | | |
| - | | | E40-0573-05 | PIN CONNECTOR (MINI,5P) | | |
| - | | | E40-0973-05 | PIN CONNECTOR (MINI,9P) | | |
| L1 ,2 | | * | L40-1011-13 | SMALL FIXED INDUCTOR | | |
| L3 | | | L40-2211-14 | SMALL FIXED INDUCTOR | | |
| L4 -6 | | * | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| L7 ,8 | | * | L40-3311-14 | SMALL FIXED INDUCTOR | | |
| L9 | | * | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| L10 ,11 | | | L40-3301-14 | SMALL FIXED INDUCTOR | | |
| L12 ,13 | | * | L40-1011-13 | SMALL FIXED INDUCTOR | | |
| L14 | | | L40-2211-14 | SMALL FIXED INDUCTOR | | |
| L15 ,16 | | * | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| L17 | | * | L40-1011-13 | SMALL FIXED INDUCTOR | | |
| L18 ,19 | | | L40-6801-14 | SMALL FIXED INDUCTOR | | |
| L20 ,21 | | * | L40-1011-13 | SMALL FIXED INDUCTOR | | |
| L22 | | | L40-2211-14 | SMALL FIXED INDUCTOR | | |
| L23 ,24 | | * | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| L25 ,26 | | | L40-2201-14 | SMALL FIXED INDUCTOR | | |
| L27 | | * | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| L28 | | * | L40-1011-13 | SMALL FIXED INDUCTOR | | |
| L29 | | * | L40-1001-14 | SMALL FIXED INDUCTOR | | |
| L30 -32 | | | L40-4701-14 | SMALL FIXED INDUCTOR | | |
| L33 ,34 | | * | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| L35 ,36 | | * | L40-1011-13 | SMALL FIXED INDUCTOR | | |

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|---|---|---|---|---|---|---|
| L37 ,38 | | | L40-2211-14 | SMALL FIXED INDUCTOR | | |
| L39 | | * | L40-1011-13 | SMALL FIXED INDUCTOR | | |
| L40 | | * | L40-2201-13 | SMALL FIXED INDUCTOR | | |
| L41 | | * | L40-1001-14 | SMALL FIXED INDUCTOR | | |
| L42 | | * | L40-1011-13 | SMALL FIXED INDUCTOR | | |
| L43 | | | L40-2211-14 | SMALL FIXED INDUCTOR | | |
| L44 | | * | L40-1001-14 | SMALL FIXED INDUCTOR | | |
| L46 | | * | L40-1011-13 | SMALL FIXED INDUCTOR | | |
| L47 | | * | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| T1 ,2 | | * | L32-0666-15 | OSCILLATING COIL(VCO,95MHZ) | | |
| T3 | | * | L34-2269-05 | COIL (6.6MHZ,BPF) | | |
| T4 | | * | L34-2270-05 | COIL (6.6MHZ,BPF) | | |
| T5 | | * | L34-2269-05 | COIL (6.6MHZ,BPF) | | |
| T6 | | * | L34-2271-05 | COIL (62MHZ,BPF) | | |
| T7 | | * | L34-2272-15 | COIL (62MHZ,BPF) | | |
| T8 | | * | L34-2292-05 | COIL (62MHZ,BPF) | | |
| T9 | | | L32-0639-05 | OSCILLATING COIL(VCO,55MHZ) | | |
| T10 | | * | L34-2273-05 | COIL (30MHZ,BPF) | | |
| T11 | | * | L34-2274-05 | COIL (30MHZ,BPF) | | |
| T12 | | * | L34-2273-05 | COIL (30MHZ,BPF) | | |
| T13 | | * | L34-2275-05 | COIL (39MHZ,BPF) | | |
| T14 | | * | L34-2276-05 | COIL (39MHZ,BPF) | | |
| T15 | | * | L34-2275-05 | COIL (39MHZ,BPF) | | |
| T16 | | | L34-0851-05 | COIL (40MHZ,LPF) | | |
| T17 ,18 | | | L34-0856-05 | COIL (40MHZ,LPF) | | |
| T19 | | | L34-0851-05 | COIL (40MHZ,LPF) | | |
| T20 | | | L32-0677-15 | OSCILLATING COIL(VCO,36MHZ) | | |
| T45 | | | L34-1124-05 | COIL | | |
| X1 | | * | L77-1299-05 | CRYSTAL RESONATOR | | |
| IB1 | | * | R90-0596-05 | MULTI-COMP (100PF X8) | | |
| VR1 ,2 | | | R12-4413-05 | TRIMMING POT.(VC02,ETC.) | | |
| W8 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W18 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W20 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W21 | | | R92-1061-05 | JUMPER REST 0OHM | | |
| W35 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W45 ,46 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W49 -51 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| D1 ,2 | | | 1SS133 | DIODE | | |
| D3 | | | 1SV53A | DIODE | | |
| D4 ,5 | | | 1SS133 | DIODE | | |
| D6 | | | 1TT310TE | VARI CAP | | |
| D7 ,8 | | | 1SS133 | DIODE | | |
| D9 | | | 1TT310TE | VARI CAP | | |
| D10 | | | 1SS133 | DIODE | | |
| D11 | | | MV13 | VARISTOR | | |
| D12 | | | 1SS133 | DIODE | | |
| D13 | | | MV203 | VARISTOR | | |
| D14 | | * | 1SV153 | DIODE | | |
| IC1 | | | MN6147 | IC | | |
| IC1 | | | MN6147C | IC(FREQ SYNTHESYZER PLL) | | |
| IC2 | | | M54459L | IC(PRE SCALER) | | |
| IC3 | | | SN74LS90N | IC | | |
| IC4 | | | MN6147 | IC | | |

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|---|---|---|---|---|---|---|
| IC4 | | | MN6147C | IC(FREQ SYNTHESYZER PLL) | | |
| IC5 | | * | M54460L | IC(PRE SCALER) | | |
| IC6 | | | SN74LS90N | IC | | |
| IC7 ,8 | | | SN16913P | IC(DUBLE DALANCED MIXERS) | | |
| IC9 | | | MN6147 | IC | | |
| IC10 | | * | M54460L | IC(PRE SCALER) | | |
| IC11,12 | | | SN16913P | IC(DUBLE DALANCED MIXERS) | | |
| IC13 | | | SN74S112N | IC | | |
| IC14 | | | SN16913P | IC(DUBLE DALANCED MIXERS) | | |
| IC15 | | | SN74S10N | IC | | |
| IC16 | | | SN74S112N | IC | | |
| IC17 | | * | MB87006 | IC(FREQ SYNTHESIZER PLL) | | |
| IC18 | | | MN6147 | IC | | |
| Q1 ,2 | | | 2SC3113(B) | TRANSISTOR | | |
| Q3 -5 | | | 2SC2668(Y) | TRANSISTOR | | |
| Q6 ,7 | | | 2SC2458(Y) | TRANSISTOR | | |
| Q8 | | | 2SC1959(Y) | TRANSISTOR | | |
| Q9 | | | 2SC2458(Y) | TRANSISTOR | | |
| Q10 ,11 | | | 2SC3113(B) | TRANSISTOR | | |
| Q12 -15 | | | 2SC2668(Y) | TRANSISTOR | | |
| Q16 ,17 | | | 2SC3113(B) | TRANSISTOR | | |
| Q18 -20 | | | 2SC2668(Y) | TRANSISTOR | | |
| Q21 | | | 2SC2787(L) | TRANSISTOR | | |
| Q22 -24 | | | 2SC2668(Y) | TRANSISTOR | | |
| Q25 | | | 2SC2458(Y) | VARICAP | | |
| Q26 -30 | | | 2SC2668(Y) | TRANSISTOR | | |
| Q31 -35 | | | 2SC2459(BL) | TRANSISTOR | | |
| Q36 | | | 2SK192A(GR)*J | FET | | |
| Q37 | | | 2SC2668(Y) | TRANSISTOR | | |

## FILTER UNIT (X51-1340-00)

| | | | | | | |
|---|---|---|---|---|---|---|
| C1 ,2 | | | CC45CH1H101J | CERAMIC | 100PF J | |
| C3 -6 | | | CK45B1H222K | CERAMIC | 2200PF K | |
| C7 ,8 | | | CK45F1H473Z | CERAMIC | 0.047UF Z | |
| C9 ,10 | | | CK45B1H222K | CERAMIC | 2200PF K | |
| C11 | | | CK45F1H473Z | CERAMIC | 0.047UF Z | |
| C12 | | | CK45F1H103Z | CERAMIC | 0.010UF Z | |
| C13 | | | CE04W1H010M | ELECTRO | 1.0UF 50WV | |
| C14 | | | CE04W1HR47M | ELECTRO | 0.47UF 50WV | |
| C15 | | | CE04W1H100M | ELECTRO | 10UF 50WV | |
| C16 | | | CK45F1H103Z | CERAMIC | 0.010UF Z | |
| C18 | | | C91-0117-05 | CERAMIC | 0.01UF K | |
| C20 | | | C91-0119-05 | CERAMIC | 0.047UF K | |
| C21 | | | C91-0117-05 | CERAMIC | 0.01UF K | |
| C23 | | | CK45F1H103Z | CERAMIC | 0.010UF Z | |
| C24 | | | CK45F1H223Z | CERAMIC | 0.022UF Z | |
| C25 | | | CK45F1H103Z | CERAMIC | 0.010UF Z | |
| C26 | | | CK45F1H473Z | CERAMIC | 0.047UF Z | |
| C27 | | | CK45F1H103Z | CERAMIC | 0.010UF Z | |
| C28 | | | CE04W1HR47M | ELECTRO | 0.47UF 50WV | |
| C29 | | | C91-0117-05 | CERAMIC | 0.01UF K | |
| C30 | | | CE04W1H3R3M | ELECTRO | 3.3UF 50WV | |
| C31 | | | C91-0117-05 | CERAMIC | 0.01UF K | |
| C32 -44 | | | CK45F1H473Z | CERAMIC | 0.047UF Z | |
| C45 | | | CE04W1H100M | ELECTRO | 10UF 50WV | |
| C46 | | | CK45F1H103Z | CERAMIC | 0.010UF Z | |

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|---|---|---|---|---|---|---|
| C47 | | | CK45F1H223Z | CERAMIC 0.022UF Z | | |
| C51 | | | CM93D2H152J | MICA 1500PF J | | |
| C52 | | | CM93D2H471J | MICA 470PF J | | |
| C53 | | | CM93D2H152J | MICA 1500PF J | | |
| C54 | | | CM93D2H221J | MICA 220PF J | | |
| C55 | | | CM93D2H821J | MICA 820PF J | | |
| C56 | | * | CC45SL2H431J | CERAMIC 430PF J | | |
| C57 | | * | CC45SL2H241J | CERAMIC 240PF J | | |
| C58 ,59 | | * | CC45SL2H431J | CERAMIC 430PF J | | |
| C60 | | | CC45SL2H151J | CERAMIC 150PF J | | |
| C61 | | * | CC45SL2H331J | CERAMIC 330PF J | | |
| C62 | | | CC45SL2H820J | CERAMIC 82PF J | | |
| C63 | | * | CC45SL2H331J | CERAMIC 330PF J | | |
| C64 | | | CC45SL2H101J | CERAMIC 100PF J | | |
| C65 | | * | CC45SL2H431J | CERAMIC 430PF J | | |
| C66 | | * | CC45SL2H331J | CERAMIC 330PF J | | |
| C67 | | | CC45SL2H151J | CERAMIC 150PF J | | |
| C68 | | | CC45SL2H330J | CERAMIC 33PF J | | |
| C69 | | | CC45SL2H151J | CERAMIC 150PF J | | |
| C70 | | | CC45SL2H121J | CERAMIC 120PF J | | |
| C71 | | | CC45SL2H181J | CERAMIC 180PF J | | |
| C72 | | | CC45SL2H820J | CERAMIC 82PF J | | |
| C73 | | | CC45SL2H680J | CERAMIC 68PF J | | |
| C74 | | | CC45SL2H181J | CERAMIC 180PF J | | |
| C75 | | | CC45SL2H121J | CERAMIC 120PF J | | |
| C76 | | | CC45SL2H101J | CERAMIC 100PF J | | |
| C77 | | | CC45SL2H470J | CERAMIC 47PF J | | |
| C78 | | | CC45SL2H680J | CERAMIC 68PF J | | |
| C79 | | | CC45SL2H330J | CERAMIC 33PF J | | |
| C80 | | | CC45SL2H820J | CERAMIC 82PF J | | |
| C81 | | | CC45SL2H680J | CERAMIC 68PF J | | |
| C82 | | | CC45SL2H820J | CERAMIC 82PF J | | |
| C83 | | | CC45SL2H151J | CERAMIC 150PF J | | |
| C84 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C86 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C87 | | | CC45SL2H100D | CERAMIC 10PF D | | |
| . | | | E04-0157-05 | RF COAXIAL CABLE RECEPTACLE | | |
| - | | | E40-0473-05 | PIN CONNECTOR (MINI,4P) | | |
| - | | | E40-0573-05 | PIN CONNECTOR (MINI,5P) | | |
| - | | | E40-0673-05 | PIN CONNECTOR (MINI,6P) | | |
| - | | | E40-0773-05 | PIN CONNECTOR (MINI7P) | | |
| - | | | E40-1273-05 | PIN CONNECTOR (MINI,12P) | | |
| - | | | L92-0106-05 | BEAD CORE (FOR L42,43) | | |
| - | | * | L92-0107-05 | BEAD CORE (FOR L30-35) | | |
| - | | * | L92-0108-05 | BEAD CORE (FOR L36,37) | | |
| L1 -22 | | | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| L30 | | * | L34-3148-05 | COIL | | |
| L31 | | * | L34-3147-05 | COIL | | |
| L32 | | * | L34-3150-05 | COIL | | |
| L33 | | * | L34-3149-05 | COIL | | |
| L34 | | * | L34-3152-05 | COIL | | |
| L35 | | * | L34-3151-05 | COIL | | |
| L36 | | * | L34-3153-05 | COIL | | |

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|---|---|---|---|---|---|---|
| L37 | | * | L34-3154-05 | COIL | | |
| L38 | | * | L34-3156-05 | COIL | | |
| L40 | | * | L34-3157-05 | COIL | | |
| L41 | | * | L34-3158-05 | COIL | | |
| L42 | | * | L39-0422-05 | COIL | | |
| L43 | | * | L39-0423-05 | COIL | | |
| R1 | | | RC05GF2H181J | RC 180 J 1/2W | | |
| R2 -4 | | | RC05GF2H101J | RC 100 J 1/2W | | |
| VR1 ,2 | | | R12-4414-05 | TRIMMING POT. (50K)PROTECTION | | |
| VR3 | | | R12-3447-05 | TRIMMING POT. (10K)POWER DOWN | | |
| VR4 -6 | | | R12-1431-05 | TRIMMING POT. (1K) ALC METER | | |
| W13 | | | R92-1061-05 | JUMPER REST 0OHM | | |
| W14 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| RL1 -12 | | | S51-1420-05 | RELAY (DC-1,12V) | | |
| S1 | | | S31-1411-05 | SLIDE SWITCH | | |
| D1 | | | 1S1587 | DIODE | | |
| D2 | | | 1S1007 | DIODE | | |
| D3 -5 | | | 1SS101 | DIODE | | |
| D6 | | | MTZ9.1JC | ZENER DIODE | | |
| D6 | | * | UZ9.1BL | ZENER DIODE | | |
| D7 | | | MTZ7.5JA | ZENER DIODE | | |
| D8 | | | MTZ9.1JC | ZENER DIODE | | |
| D8 | | * | UZ9.1BL | ZENER DIODE | | |
| D9 | | | MTZ4.3JC | ZENER DIODE | | |
| D10 | | | MTZ3.0JB | ZENER DIODE | | |
| D12 -23 | | | 1N4448 | DIODE | | |
| D12 -23 | | | 1S1555 | DIODE | | |
| D23 | | | MC931 | DIODE | | |
| D25 | | | MTZ7.5JA | ZENER DIODE | | |
| Q1 | | | DTC114ES | DIGITAL TRANSISTOR | | |
| Q2 | | | 2SC1815(Y) | TRANSISTOR | | |
| Q3 | | | 2SC3113(B) | TRANSISTOR | | |
| Q4 | | | DTC114ES | DIGITAL TRANSISTOR | | |
| Q5 | | | BA718 | IC(OP AMP X2) | | |
| Q6 | | | DTC114ES | DIGITAL TRANSISTOR | | |

## CONTROL UNIT (X53-1450-11)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| C1 ,2 | | | CC45CH1H270J | CERAMIC | 27PF | J | | |
| C3 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C4 | | | C90-0822-05 | ELECTRO | 47UF | 16WV | | |
| C5 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C6 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C7 | | | C90-0822-05 | ELECTRO | 47UF | 16WV | | |
| C8 | | | C91-0119-05 | CERAMIC | 0.047UF | K | | |
| C9 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C10 | | | C90-0484-05 | ELECTRO | 0.47UF | 50WV | | |
| C11 | | | C90-0822-05 | ELECTRO | 47UF | 16WV | | |
| C12 | | | C91-0757-05 | CERAMIC | 0.001UF | K | | |
| C13 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |
| C14 | | | C90-0822-05 | ELECTRO | 47UF | 16WV | | |
| C15 ,16 | | | CC45SL1H101J | CERAMIC | 100PF | J | | |
| C17 ,18 | | | C91-0757-05 | CERAMIC | 0.001UF | K | | |
| C19 | | | CQ92M1H472K | MYLAR | 4700PF | K | | |
| C20 ,21 | | | C91-0769-05 | CERAMIC | 0.01UF | M | | |

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|---|---|---|---|---|---|---|
| C22 | | | C90-0822-05 | ELECTRO 47UF 16WV | | |
| C23 -38 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C39 -41 | | | C91-0753-05 | CERAMIC 470PF K | | |
| C45 -48 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C50 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C51 | | * | C90-2020-05 | ELECTRO 1SUF 25WV | | |
| C52 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C53 ,54 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C55 | | | C90-0822-05 | ELECTRO 47UF 16WV | | |
| C56 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C57 | | | C90-0822-05 | ELECTRO 47UF 16WV | | |
| C58 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C59 | | | C90-0822-05 | ELECTRO 47UF 16WV | | |
| C60 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C61 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C62 | | | C90-0822-05 | ELECTRO 47UF 16WV | | |
| C63 ,64 | | | C91-0757-05 | CERAMIC 0.001UF K | | |
| C65 -70 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C100-114 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| - | | | E02-0114-05 | TRANSISTOR SOCKET (16P) | | |
| - | | * | E02-2001-05 | TRANSISTOR SOCKET (28P) | | |
| - | | | E40-3237-05 | PIN CONNECTOR (MINI,2P) | | |
| - | | | E40-3238-05 | PIN CONNECTOR (MINI,3P) | | |
| - | | | E40-3239-05 | PIN CONNECTOR (MINI,4P) | | |
| - | | | E40-3240-05 | PIN CONNECTOR (MINI,5P) | | |
| - | | | E40-3241-05 | PIN CONNECTOR (MINI,6P) | | |
| - | | | E40-3242-05 | PIN CONNECTOR (MINI,7P) | | |
| - | | | E40-3243-05 | PIN CONNECTOR (MINI,8P) | | |
| - | | | E40-5066-05 | PIN CONNECTOR (MINI,9P) | | |
| L1 | | | L40-1011-13 | SMALL FIXED INDUCTOR | | |
| L3 ,4 | | | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| L5 | | | L40-1011-03 | SMALL FIXED INDUCTOR | | |
| L6 -19 | | | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| L23 | | | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| L50 ,51 | | | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| L52 | | | L40-1011-13 | SMALL FIXED INDUCTOR | | |
| L53 -55 | | | L40-1011-03 | SMALL FIXED INDUCTOR | | |
| L58 ,59 | | | L40-4701-14 | SMALL FIXED INDUCTOR | | |
| X1 | | * | L78-0019-05 | RESONATOR (1.99MHZ) | | |
| X50 | | | L78-0015-05 | RESONATOR (2.45MHZ) | | |
| RB1 | | | R90-0510-05 | MULTI-COMP (4.7KX8) | | |
| RB50 | | | R90-0510-05 | MULTI-COMP (4.7KX8) | | |
| RB51 | | | R90-0521-05 | MULTI-COMP (47KX7) | | |
| RB52 | | | R90-0597-05 | MULTI-COMP (1KX4) | | |
| W1 -3 | | | R92-1061-05 | JUMPER REST 0OHM | | |
| W50 | | | R92-1061-05 | JUMPER REST 0OHM | | |
| S50 | | * | S31-0402-05 | SLIDE SWITCH | | |
| D1 ,2 | | | 1SS133 | DIODE | | |
| D5 -9 | | | 1SS133 | DIODE | | |
| D51 -71 | | | 1SS133 | DIODE | | |
| D73 | | | 1SS133 | DIODE | | |
| D75 | | | 1SS133 | DIODE | | |

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|---|---|---|---|---|---|---|
| D81 | | | 1SS101 | DIODE | | |
| D82 -84 | | | 1SS133 | DIODE | | |
| IC1 | | | UPD7800G | IC(MICROPROCESSOR) | | |
| IC2 | | | TMP8255AP-5 | IC(PROGRAMMABLE INTERFACE) | | |
| IC2 | | | UPD8255AC-5 | IC(PROGRAMMABLE INTERFACE) | | |
| IC3 | | | PST520D | IC(LOW POWER RESET) | | |
| IC4 | | * | TC4069UBP | IC(INVERTER X6) | | |
| IC5 | | | TC4011BP | IC(NAND X4) | | |
| IC6 | | * | TC4030BP | IC(EXCLUSIVE OR X4) | | |
| IC7 | | | TC4011BP | IC(NAND X4) | | |
| IC20 | | | MB8418-20LP-GRA | IC(16K RAM) | | |
| IC51 | | | SN74LS138N | IC | | |
| IC52 | | * | MBM27128-25JA1 | IC(PROGRAMMABLE INTERFACE) | | |
| IC53 | | | TMP8255AP-5 | IC(PROGRAMMABLE INTERFACE) | | |
| IC53 | | | UPD8255AC-5 | IC(PROGRAMMABLE INTERFACE) | | |
| IC56 | | * | SN7404N | IC(6-CIRCUIT INVERTER) | | |
| Q1 -7 | | | DTC144WS | DIGITAL TRANSISTOR | | |
| Q8 -13 | | | DTA114ES | DIGITAL TRANSISTOR | | |
| Q14 | | | DTC144WS | DIGITAL TRANSISTOR | | |
| Q18 -24 | | | DTA114ES | DIGITAL TRANSISTOR | | |
| Q25 | | | DTA114ES | DIGITAL TRANSISTOR | | |
| Q50 | | | DTC144WS | DIGITAL TRANSISTOR | | |

## DISPLAY UNIT (X54-1870-00)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| C1 | | | C90-0871-05 | ELECTRO | 220UF | 16WV | |
| C2 | | | C91-0119-05 | CERAMIC | 0.047UF | K | |
| C3 | | * | C90-0504-05 | ELECTRO | 10UF | 35WV | |
| C4 | | | C092M1H223K | MYLAR | 0.022UF | K | |
| C5 -7 | | * | C90-0504-05 | ELECTRO | 10UF | 35WV | |
| C10 | | | C91-0769-05 | CERAMIC | 0.01UF | M | |
| C11 | | | C90-0822-05 | ELECTRO | 47UF | 16WV | |
| C12 -14 | | | C91-0769-05 | CERAMIC | 0.01UF | M | |
| C15 | | | C90-0822-05 | ELECTRO | 47UF | 16WV | |
| C16 | | | C91-0769-05 | CERAMIC | 0.01UF | M | |
| C17 | | | C91-0119-05 | CERAMIC | 0.047UF | K | |
| C50 -52 | | | CK45F1H103Z | CERAMIC | 0.010UF | Z | |
| C53 | | * | CK45E2H222P | CERAMIC | 2200PF | P | |
| C54 -56 | | | CK45B1H102K | CERAMIC | 1000PF | K | |
| C57 | | | CK45F1H103Z | CERAMIC | 0.010UF | Z | |
| - | | | E40-3237-05 | PIN CONNECTOR (MINI,2P) | | | |
| - | | | E40-3238-05 | PIN CONNECTOR (MINI,3P) | | | |
| - | | | E40-3239-05 | PIN CONNECTOR (MINI,4P) | | | |
| - | | | E40-3240-05 | PIN CONNECTOR (MINI,5P) | | | |
| - | | | E40-3241-05 | PIN CONNECTOR (MINI,6P) | | | |
| - | | | E40-3242-05 | PIN CONNECTOR (MINI,7P) | | | |
| L1 -4 | | | L40-1011-13 | SMALL FIXED INDUCTOR | | | |
| L50 | | | L40-1011-14 | SMALL FIXED INDUCTOR | | | |
| T1 | | | L19-0305-05 | OSC TRANSFORMER | | | |
| RB1 | | | R90-0511-05 | MULTI-COMP | 47KX8 | | |
| RB2 | | | R90-0193-05 | MULTI-COMP | 47KX9 | J 1/6W | |
| RB3 | | | R90-0520-05 | MULTI-COMP | 47KX5 | | |
| RB4 | | | R90-0515-05 | MULTI-COMP | 10KX4 | | |
| S50 | | | S40-2441-15 | PUSH SWITCH | | | |
| S51 ,52 | | | S40-2440-15 | PUSH SWITCH | | | |

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|---|---|---|---|---|---|---|
| S53 | | | S31-2405-05 | SLIDE SWITCH | | |
| S54 -56 | | | S40-2440-15 | PUSH SWITCH | | |
| S57 | | | S40-2441-15 | PUSH SWITCH | | |
| S58 -60 | | | S40-2440-15 | PUSH SWITCH | | |
| D1 -4 | | | 1S1555 | DIODE | | |
| D5 ,6 | | | MTZ6.2JA | ZENER DIODE | | |
| D50 ,51 | | | 1SS133 | DIODE | | |
| D52 | | | 1SS101 | DIODE | | |
| IC1 | | * | UPD6300C | IC(FL LATCH DRIVER) | | |
| IC2 | | | MB4052 | IC(4CH 8BIT A/D CONVERTER(ADC) | | |
| IC3 | | | TC4013BP | IC(D FLIP-FLOP X2) | | |
| PL1 | | * | FIP13BM7 | FLUORESCENT INDICATOR TUBE | | |
| Q1 ,2 | | | DTA114ES | DIGITAL TRANSISTOR | | |
| Q3 | | | DTC144WS | DIGITAL TRANSISTOR | | |
| Q4 ,5 | | | 2SC1959(Y) | TRANSISTOR | | |
| Q50 | | | DTC143TS | DIGITAL TRANSISTOR | | |
| **AT UNIT (X57-1150-00)** | | | | | | |
| C1 ,2 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C3 ,4 | | | CK45B1H102K | CERAMIC 1000PF K | | |
| C5 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C6 | | | CK45B1H102K | CERAMIC 1000PF K | | |
| C7 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C8 | | | CK45B1H102K | CERAMIC 1000PF K | | |
| C9 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C10 | | | CE04W1H100M | ELECTRO 10UF 50WV | | |
| C11 | | | CE04W1C470M | ELECTRO 47UF 16WV | | |
| C12 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C13 -15 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C16 | | | CK45F1H473Z | CERAMIC 0.047UF Z | | |
| C17 ,18 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C19 | | | CE04W1E101M | ELECTRO 100UF 25WV | | |
| C20 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C21 | | | CK45F1H473Z | CERAMIC 0.047UF Z | | |
| C22 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C23 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C24 | | | CQ92M1H333K | MYLAR 0.033UF K | | |
| C25 | | | CK45B1H102K | CERAMIC 1000PF K | | |
| C26 | | | CE04W1H010M | ELECTRO 1.0UF 50WV | | |
| C27 | | | CE04W1H100M | ELECTRO 10UF 50WV | | |
| C28 ,29 | | | CK45F1H103Z | CERAMIC 0.010UF Z | | |
| C30 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C31 | | | CC45SL2H560J | CERAMIC 56PF J | | |
| C100-105 | | | CK45F1H473Z | CERAMIC 0.047UF Z | | |
| C106-111 | | | CK45F1H103Z | CERAMIC 0.010UF Z | | |
| C112 | | | CK45F1H473Z | CERAMIC 0.047UF Z | | |
| TC1 | | | C05-0324-05 | TRIMMING CAP 60PF | | |
| VC1 ,2 | | * | C02-0023-05 | VARIABLE CAPACITOR | | |
| 163 | 2P | * | D40-0629-05 | GEAR MECHANISM ASSY | | |
| - | | | E04-0157-05 | RF COAXIAL CABLE RECEPTACLE | | |
| - | | | E40-0273-05 | PIN CONNECTOR (MINI,2P) | | |
| - | | | E40-0473-05 | PIN CONNECTOR (MINI,4P) | | |
| - | | | E40-0673-05 | PIN CONNECTOR (MINI,6P) | | |
| - | | | E40-0873-05 | PIN CONNECTOR (MINI,8P) | | |

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|---|---|---|---|---|---|---|
| - | | | L92-0103-05 | TOROIDAL CORE (FOR L1,2) | | |
| - | | * | L92-0119-05 | TOROIDAL CORE (FOR T100,101) | | |
| L1 | | | L39-0416-05 | COIL | | |
| L2 | | | L39-0415-05 | COIL | | |
| L3 | | | L40-1011-13 | SMALL FIXED INDUCTOR | | |
| L4 | | | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| L5 -11 | | | L40-1011-13 | SMALL FIXED INDUCTOR | | |
| L12 | | | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| L13 ,14 | | | L40-1011-13 | SMALL FIXED INDUCTOR | | |
| L100 | | | L40-1011-13 | SMALL FIXED INDUCTOR | | |
| T100 | | * | L34-3144-15 | COIL | | |
| T101 | | * | L34-3145-15 | COIL | | |
| T102 | | * | L34-3146-15 | COIL | | |
| B | 1P,1Q | | N88-3006-46 | FLAT HEAD TAPTITE SCREW | | |
| M | 1Q,2R | | N87-2606-46 | BRAZIER HEAD TAPTITE SCREW | | |
| N | 2P,1R | | N87-3006-46 | BRAZIER HEAD TAPTITE SCREW | | |
| R1 | | * | RC05GF2H510J | RC 51 J 1/2W | | |
| VR1 ,2 | | | R12-3425-05 | TRIMMING POT.(10K)AUTO ANT TUN | | |
| W11 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W16 ,17 | | | R92-1061-05 | JUMPER REST 0OHM | | |
| W19 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| RL1 | | * | S51-2417-05 | RELAY (DC-2,12V) | | |
| RL100-105 | | | S51-1420-05 | RELAY (DC-1,12V) | | |
| M1 ,2 | | | T42-0303-05 | DC MOTOR ASSY | | |
| D1 -4 | | | 1SS99 | DIODE | | |
| D5 ,6 | | * | UZ6.2BL | ZENER DIODE | | |
| D7 | | | 1SS133 | DIODE | | |
| D8 | | | 1N4448 | DIODE | | |
| D8 | | | 1S1555 | DIODE | | |
| D9 | | | 1SS133 | DIODE | | |
| D10 ,11 | | | 1N60 | DIODE | | |
| D12 | | | 1SS133 | DIODE | | |
| D100-105 | | | 1N4448 | DIODE | | |
| D100-105 | | | 1S1555 | DIODE | | |
| IC1 | | | NJM2903D | IC(DUAL COMPARATOR) | | |
| IC2 | | | HD10116 | IC(TRIPLE LINE RECEIVERS) | | |
| IC2 | | | MC10116L | IC | | |
| IC3 | | | HD10131 | IC(D FLIP-FLOP) | | |
| IC3 | | | MC10131L | IC | | |
| IC4 | | | HD10125 | IC(QUAD ECL-TTL TRANSLATORS) | | |
| IC4 | | | MC10125L | IC | | |
| IC5 ,6 | | | BA6109U2 | IC(MOTOR DRIVER) | | |
| IC7 | | | NE555P | IC | | |
| IC8 | | | MB3614 | IC(QUAD OPERATIONAL AMPLIFIER) | | |
| Q1 | | * | DTC114ES | DIGITAL TRANSISTOR | | |
| Q2 | | | 2SA950(Y) | TRANSISTOR | | |
| Q3 | | * | DTC114ES | DIGITAL TRANSISTOR | | |
| Q4 | | | 2SA950(Y) | TRANSISTOR | | |
| Q5 | | | 2SC2458(Y) | TRANSISTOR | | |
| Q6 | | * | DTC114ES | DIGITAL TRANSISTOR | | |
| Q7 | | | DTC124ES | DIGITAL TRANSISTOR | | |
| Q100-105 | | | 2SC2668(Y) | TRANSISTOR | | |

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|---|---|---|---|---|---|---|
| **SIDE TONE UNIT (X59-1060-00)** | | | | | | |
| C1 | | | CK73FB1E223K | CHIP C 0.022UF K | | |
| C2 -5 | | * | CK73FB1H123K | CHIP C 0.012UF K | | |
| C6 -8 | | | CK73FB1E223K | CHIP C 0.022UF K | | |
| - | | | E23-0471-05 | TERMINAL | | |
| R1 ,2 | | | RK73FB2A823J | CHIP R 82K J 1/10W | | |
| R3 | | | RK73FB2A223J | CHIP R 22K J 1/10W | | |
| R4 | | | RK73FB2A472J | CHIP R 4.7K J 1/10W | | |
| R5 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R6 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R7 ,8 | | | RK73FB2A333J | CHIP R 33K J 1/10W | | |
| R9 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R10 | | | RK73FB2A333J | CHIP R 33K J 1/10W | | |
| R11 | | | RK73FB2A183J | CHIP R 18K J 1/10W | | |
| W1 -6 | | | R92-0670-05 | CHIP R 0 OHM | | |
| D1 | | | DAN202(K) | CHIP DIODE | | |
| D2 | | | DAP202(K) | CHIP DIODE | | |
| D3 | | | DAN202(K) | CHIP DIODE | | |
| Q1 | | | 2SC2712(Y) | CHIP TRANSISTOR | | |
| **SELECTIVITY UNIT (X59-1070-00)** | | | | | | |
| - | | | E23-0471-05 | TERMINAL | | |
| R1 | | | RK73FB2A473J | CHIP R 47K J 1/10W | | |
| R2 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R3 | | | RK73FB2A473J | CHIP R 47K J 1/10W | | |
| R4 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R5 | | | RK73FB2A473J | CHIP R 47K J 1/10W | | |
| R6 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R7 | | | RK73FB2A473J | CHIP R 47K J 1/10W | | |
| R8 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| W1 -3 | | | R92-0670-05 | CHIP R 0 OHM | | |
| D1 ,2 | | | DAN202(K) | CHIP DIODE | | |
| D3 | | | DAP202(K) | CHIP DIODE | | |
| D4 ,5 | | | DAN202(K) | CHIP DIODE | | |
| D6 | | | DAP202(K) | CHIP DIODE | | |
| Q1 -4 | | | 2SA1162(Y) | CHIP TRANSISTOR | | |
| **VOX. UNIT (X59-1080-00)** | | | | | | |
| C1 | | | CK73FB1H102K | CHIP C 1000PF K | | |
| C2 | | | CK73FB1E223K | CHIP C 0.022UF K | | |
| - | | | E23-0471-05 | TERMINAL | | |
| R1 | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R2 -5 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R6 ,7 | | | RK73FB2A105J | CHIP R 1.0M J 1/10W | | |
| R8 | | | RK73FB2A474J | CHIP R 470K J 1/10W | | |
| R9 | | | RK73FB2A105J | CHIP R 1.0M J 1/10W | | |
| R10 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| W1 -3 | | | R92-0670-05 | CHIP R 0 OHM | | |
| D1 ,2 | | | DAP202(K) | CHIP DIODE | | |
| IC1 | | | NJM2904M | IC(OP AMP X2) | | |
| IC2 | | * | TC4001BF | IC(NOR X6) | | |
| Q1 | | | 2SC2712(Y) | CHIP TRANSISTOR | | |

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|---|---|---|---|---|---|---|---|
| **IF UNIT (X60-1300-00)** | | | | | | | |
| C1 | | | C91-0769-05 | CERAMIC | 0.01UF M | | |
| C2 | | | CC45SL1H150J | CERAMIC | 15PF J | | |
| C3 -6 | | | C91-0769-05 | CERAMIC | 0.01UF M | | |
| C7 | | | CC45SL1H150J | CERAMIC | 15PF J | | |
| C8 -10 | | | C91-0769-05 | CERAMIC | 0.01UF M | | |
| C11 | | | C91-0117-05 | CERAMIC | 0.01UF K | | |
| C12 ,13 | | | CK45F1H103Z | CERAMIC | 0.010UF Z | | |
| C14 -16 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C17 | | | CK45F1H223Z | CERAMIC | 0.022UF Z | | |
| C18 -22 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C24 | | | C91-1008-05 | CERAMIC | 0.022UF K | | |
| C25 -30 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C31 | | | CC45SL1H050C | CERAMIC | 5.0PF C | | |
| C32 -34 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C35 | | | CK45F1H223Z | CERAMIC | 0.022UF Z | | |
| C36 ,37 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C38 | | | C91-0769-05 | CERAMIC | 0.01UF M | | |
| C39 | | | CE04W1H0R1M | ELECTRO | 0.1UF 50WV | | |
| C39 ,40 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C41 | | | C91-1008-05 | CERAMIC | 0.022UF K | | |
| C43 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C44 | | | CC45SL1H101J | CERAMIC | 100PF J | | |
| C45 | | | CK45B1H102K | CERAMIC | 1000PF K | | |
| C46 ,47 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C48 | | | CC45UJ1H470J | CERAMIC | 47PF J | | |
| C49 | | | CC45UJ1H680J | CERAMIC | 68PF J | | |
| C50 | | | CK45F1H103Z | CERAMIC | 0.010UF Z | | |
| C51 | | | CQ92M1H333K | MYLAR | 0.033UF K | | |
| C52 | | | CE04W1H4R7M | ELECTRO | 4.7UF 50WV | | |
| C53 | | | CE04W1HR47M | ELECTRO | 0.47UF 50WV | | |
| C54 | | | CK45B1H102K | CERAMIC | 1000PF K | | |
| C55 | | | CK45B1H221K | CERAMIC | 220PF K | | |
| C56 | | | CQ92M1H103K | MYLAR | 0.010UF K | | |
| C57 | | | CE04W1H100M | ELECTRO | 10UF 50WV | | |
| C58 | | | CE04W1H010M | ELECTRO | 1.0UF 50WV | | |
| C59 | | | CE04W1H4R7M | ELECTRO | 4.7UF 50WV | | |
| C60 | | | CQ92M1H473K | MYLAR | 0.047UF K | | |
| C61 | | | CQ92M1H103K | MYLAR | 0.010UF K | | |
| C62 | | | CQ92M1H333K | MYLAR | 0.033UF K | | |
| C63 | | | CE04W1A101M | ELECTRO | 100UF 10WV | | |
| C64 | | | CE04W1H100M | ELECTRO | 10UF 50WV | | |
| C65 | | | CQ92M1H392K | MYLAR | 3900PF K | | |
| C66 ,67 | | | CE04W1HR47M | ELECTRO | 0.47UF 50WV | | |
| C68 | | | CE04W1HR22M | ELECTRO | 0.22UF 50WV | | |
| C70 | | | CE04W1A470M | ELECTRO | 47UF 10WV | | |
| C71 | | | CE04W1HR22M | ELECTRO | 0.22UF 50WV | | |
| C72 | | | CQ92M1H822K | MYLAR | 8200PF K | | |
| C73 ,74 | | | CE04W1H4R7M | ELECTRO | 4.7UF 50WV | | |
| C76 ,77 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C78 | | | CE04W1H2R2M | ELECTRO | 2.2UF 50WV | | |
| C79 | | | CE04W1H010M | ELECTRO | 1.0UF 50WV | | |
| C80 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C81 | | | CC45SL1H101J | CERAMIC | 100PF J | | |

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|---|---|---|---|---|---|---|---|
| C82 -84 | | | CK45B1H102K | CERAMIC | 1000PF K | | |
| C85 | | * | C90-2022-05 | ELECTRO | 15UF 16WV | | |
| C86 ,87 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C88 | | | CC45SL1H120J | CERAMIC | 12PF J | | |
| C89 | | | CQ92M1H152K | MYLAR | 1500PF K | | |
| C90 | | | CQ92M1H183K | MYLAR | 0.018UF K | | |
| C91 | | | CQ92M1H103K | MYLAR | 0.010UF K | | |
| C92 | | | CE04W1A220M | ELECTRO | 22UF 10WV | | |
| C93 | | | CQ92M1H682K | MYLAR | 6800PF K | | |
| C94 | | | CE04W1H4R7M | ELECTRO | 4.7UF 50WV | | |
| C95 | | | CC45SL1H470J | CERAMIC | 47PF J | | |
| C95 | | | CQ92M1H473K | MYLAR | 0.047UF K | | |
| C96 | | | C91-0769-05 | CERAMIC | 0.01UF M | | |
| C97 | | | CC45SL1H390J | CERAMIC | 39PF J | | |
| C99 | | | C91-0769-05 | CERAMIC | 0.01UF M | | |
| C100 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C101 | | | CK45B1H102K | CERAMIC | 1000PF K | | |
| C102 | | | C91-0769-05 | CERAMIC | 0.01UF M | | |
| C103 | | | CE04W1H100M | ELECTRO | 10UF 50WV | | |
| C104 | | | CC45SL1H470J | CERAMIC | 47PF J | | |
| C105 | | | CK45B1H221K | CERAMIC | 220PF K | | |
| C106 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C107 | | | CC45SL1H470J | CERAMIC | 47PF J | | |
| C108 | | | CE04W1HD10M | ELECTRO | 1.0UF 50WV | | |
| C109 | | | CE04W1HR47M | ELECTRO | 0.47UF 50WV | | |
| C110 | | | CS15E1ER47M | TANTAL | 0.47UF 25WV | | |
| C111 | | | CE04W1HD10M | ELECTRO | 1.0UF 50WV | | |
| C112 | | | CE04W1H100M | ELECTRO | 10UF 50WV | | |
| C113 | | | CE04W1H4R7M | ELECTRO | 4.7UF 50WV | | |
| C114 | | | CE04W1HD10M | ELECTRO | 1.0UF 50WV | | |
| C115 | | | C91-0117-05 | CERAMIC | 0.01UF K | | |
| C116 | | | CC45SL1H101J | CERAMIC | 100PF J | | |
| C117 | | | CE04W1A470M | ELECTRO | 47UF 10WV | | |
| C118 | | | CE04W1HD10M | ELECTRO | 1.0UF 50WV | | |
| C119 | | | CE04W1H100M | ELECTRO | 10UF 50WV | | |
| C120 | | | CQ92M1H103K | MYLAR | 0.010UF K | | |
| C121 | | | CE04W1HD10M | ELECTRO | 1.0UF 50WV | | |
| C122-124 | | | CC45SL1H101J | CERAMIC | 100PF J | | |
| C125 | | | CE04W1HD10M | ELECTRO | 1.0UF 50WV | | |
| C126 | | | CE04W1H4R7M | ELECTRO | 4.7UF 50WV | | |
| C127,128 | | | CE04W1HD10M | ELECTRO | 1.0UF 50WV | | |
| C129 | | | CE04W1A470M | ELECTRO | 47UF 10WV | | |
| C130 | | | CE04W1H100M | ELECTRO | 10UF 50WV | | |
| C131 | | | CE04W1H4R7M | ELECTRO | 4.7UF 50WV | | |
| C132,133 | | | CE04W1HD10M | ELECTRO | 1.0UF 50WV | | |
| C134 | | | CE04W1A470M | ELECTRO | 47UF 10WV | | |
| C136 | | | CE04W1A470M | ELECTRO | 47UF 10WV | | |
| C137 | | | CK45B1H102K | CERAMIC | 1000PF K | | |
| C138-140 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C141 | | | CE04W1A470M | ELECTRO | 47UF 10WV | | |
| C142 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C143 | | | C91-0769-05 | CERAMIC | 0.01UF M | | |
| C146 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |
| C147 | | | C91-0117-05 | CERAMIC | 0.01UF K | | |
| C148,149 | | | C91-0119-05 | CERAMIC | 0.047UF K | | |

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|---|---|---|---|---|---|---|
| C150 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C151,152 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C153 | | | CC45SL1H470J | CERAMIC 47PF J | | |
| C154,155 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C156 | | | CC45SL1H180J | CERAMIC 18PF J | | |
| C158,159 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C160 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C161 | | | CC45SL1H470J | CERAMIC 47PF J | | |
| C162-165 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C166 | | | CE04W1H010M | ELECTRO 1.0UF 50WV | | |
| C167 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C168 | | | CE04W1HR47M | ELECTRO 0.47UF 50WV | | |
| C169 | | | CQ92M1H472K | MYLAR 4700PF K | | |
| C170 | | | CE04W1H100M | ELECTRO 10UF 50WV | | |
| C171 | | | CE04W1HR47M | ELECTRO 0.47UF 50WV | | |
| C172 | | | CE04W1C101M | ELECTRO 100UF 16WV | | |
| C173 | | | C90-0866-05 | ELECTRO 470UF 6.3WV | | |
| C174 | | | CQ92M1H104K | MYLAR 0.10UF K | | |
| C175 | | | C90-0864-05 | ELECTRO 220UF 10WV | | |
| C176 | | | CQ92M1H103K | MYLAR 0.010UF K | | |
| C177 | | | CE04W1HR47M | ELECTRO 0.47UF 50WV | | |
| C178 | | | CE04W1A470M | ELECTRO 47UF 10WV | | |
| C179 | | | CE04W1H4R7M | ELECTRO 4.7UF 50WV | | |
| C180 | | | CE04W1A470M | ELECTRO 47UF 10WV | | |
| C181,182 | | | CQ92M1H473K | MYLAR 0.047UF K | | |
| C183 | | | CQ92M1H182K | MYLAR 1800PF K | | |
| C184 | | | CK45B1H471K | CERAMIC 470PF K | | |
| C185 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C186 | | | CC45UJ1H100D | CERAMIC 10PF D | | |
| C187 | | | CK45B1H471K | CERAMIC 470PF K | | |
| C188 | | | CC45SL1H330J | CERAMIC 33PF J | | |
| C189 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C190 | | | CC45SL1H050C | CERAMIC 5.0PF C | | |
| C191 | | | CC45SL1H030C | CERAMIC 3.0PF C | | |
| C194 | | | C91-0117-05 | CERAMIC 0.01UF K | | |
| C196 | | | CK45B1H561K | CERAMIC 560PF K | | |
| C197 | | | CE04W1A470M | ELECTRO 47UF 10WV | | |
| C198 | | | CK45F1H223Z | CERAMIC 0.022UF Z | | |
| C199,200 | | | CE04W1A470M | ELECTRO 47UF 10WV | | |
| C201 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C202 | | | CK45F1H223Z | CERAMIC 0.022UF Z | | |
| C203 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| C204 | | | C91-1008-05 | CERAMIC 0.022UF K | | |
| C205 | | | C91-0769-05 | CERAMIC 0.01UF M | | |
| C206 | | | CE04W1H100M | ELECTRO 10UF 50WV | | |
| C207 | | | CK45B1H222K | CERAMIC 2200PF K | | |
| C208 | | | CE04W1H100M | ELECTRO 10UF 50WV | | |
| C209,210 | | | C91-0119-05 | CERAMIC 0.047UF K | | |
| TC1 | | | C05-0315-05 | TRIMMING CAP (60P) | | |
| TC2 | | | C05-0030-15 | TRIMMING CAP (20P) | | |
| - | | | E40-0273-05 | PIN CONNECTOR (MINI,2P) | | |
| - | | | E40-0373-05 | PIN CONNECTOR (MINI,3P) | | |
| - | | | E40-0473-05 | PIN CONNECTOR (MINI,4P) | | |
| - | | | E40-0573-05 | PIN CONNECTOR (MINI,5P) | | |
| - | | | E40-0673-05 | PIN CONNECTOR (MINI,6P) | | |

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|---|---|---|---|---|---|---|
| - | | | E40-0773-05 | PIN CONNECTOR (MINI,7P) | | |
| - | | | E40-0973-05 | PIN CONNECTOR (MINI,9P) | | |
| - | | | E40-1073-05 | PIN CONNECTOR (MINI,10P) | | |
| - | | | F02-0424-04 | HEAT SINK | | |
| CF1 | | * | L72-0356-05 | CERAMIC FILTER | | |
| CF2 | | * | L72-0355-05 | CERAMIC FILTER | | |
| CF3 | | | L72-0315-05 | CERAMIC FILTER | | |
| CF4 | | | L72-0351-05 | CERAMIC FILTER | | |
| L1 | | | L34-0708-05 | COIL | | |
| L2 | | | L34-0943-05 | COIL | | |
| L3 ,4 | | | L34-0664-05 | COIL | | |
| L5 | | | L34-0945-05 | COIL | | |
| L6 | | | L30-0503-05 | IFT | | |
| L7 | | | L40-4711-13 | SMALL FIXED INDUCTOR | | |
| L9 | | | L40-1021-13 | SMALL FIXED INDUCTOR | | |
| L10 | | | L40-1511-14 | SMALL FIXED INDUCTOR | | |
| L11 | | | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| L12 | | | L34-0535-05 | COIL | | |
| L13 | | | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| L14 | | | L40-3391-13 | SMALL FIXED INDUCTOR | | |
| L15 | | | L32-0201-05 | OSCILLATING COIL | | |
| L16 | | | L40-3392-02 | SMALL FIXED INDUCTOR | | |
| L18 | | | L34-2124-05 | COIL | | |
| L19 | | | L40-1021-03 | SMALL FIXED INDUCTOR | | |
| L20 | | | L40-1011-14 | SMALL FIXED INDUCTOR | | |
| L21 | | | L40-6825-04 | SMALL FIXED INDUCTOR | | |
| X1 | | * | L77-1302-05 | CRYSTAL RESONATOR | | |
| - | | | N09-0641-05 | SCREW | | |
| - | | | N30-3004-46 | PAN HEAD MACHINE SCREW | | |
| VR1 | | * | R12-7407-05 | TRIMMING POT.(500K) | | |
| VR2 | | | R12-3447-05 | TRIMMING POT.(10K)S-METER,SSB | | |
| VR3 | | | R12-4414-05 | TRIMMING POT.(50K)S-METER | | |
| VR4 ,5 | | | R12-2414-05 | TRIMMING POT.(5K)VOLTAGE,ETC. | | |
| VR6 | | | R12-5417-05 | TRIMMING POT.(100K)SPEECH PROC | | |
| VR7 | | | R12-2414-05 | TRIMMING POT.(5K)CARRIER SUP | | |
| VR8 | | | R12-3447-05 | TRIMMING POT.(10K)CARRIER SUP | | |
| VR9 ,10 | | | R12-4414-05 | TRIMMING POT.(50K)CW SIDE TONE | | |
| W9 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W24 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W43 ,44 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W49 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W51 ,52 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| W55 | | | R92-0150-05 | JUMPER REST 0 OHM | | |
| D1 -6 | | | 1S1007 | DIODE | | |
| D7 ,8 | | | 1S1587 | DIODE | | |
| D9 | | | 1SS133 | DIODE | | |
| D10 | | | 1S1587 | DIODE | | |
| D11 | | | 1SS133 | DIODE | | |
| D12 -18 | | | 1S1587 | DIODE | | |
| D19 -22 | | | 1N60 | DIODE | | |
| D23 -29 | | | 1SS133 | DIODE | | |
| D30 | | | 1N60 | DIODE | | |
| D31 -34 | | | 1SS133 | DIODE | | |

# PARTS LIST

* New Parts
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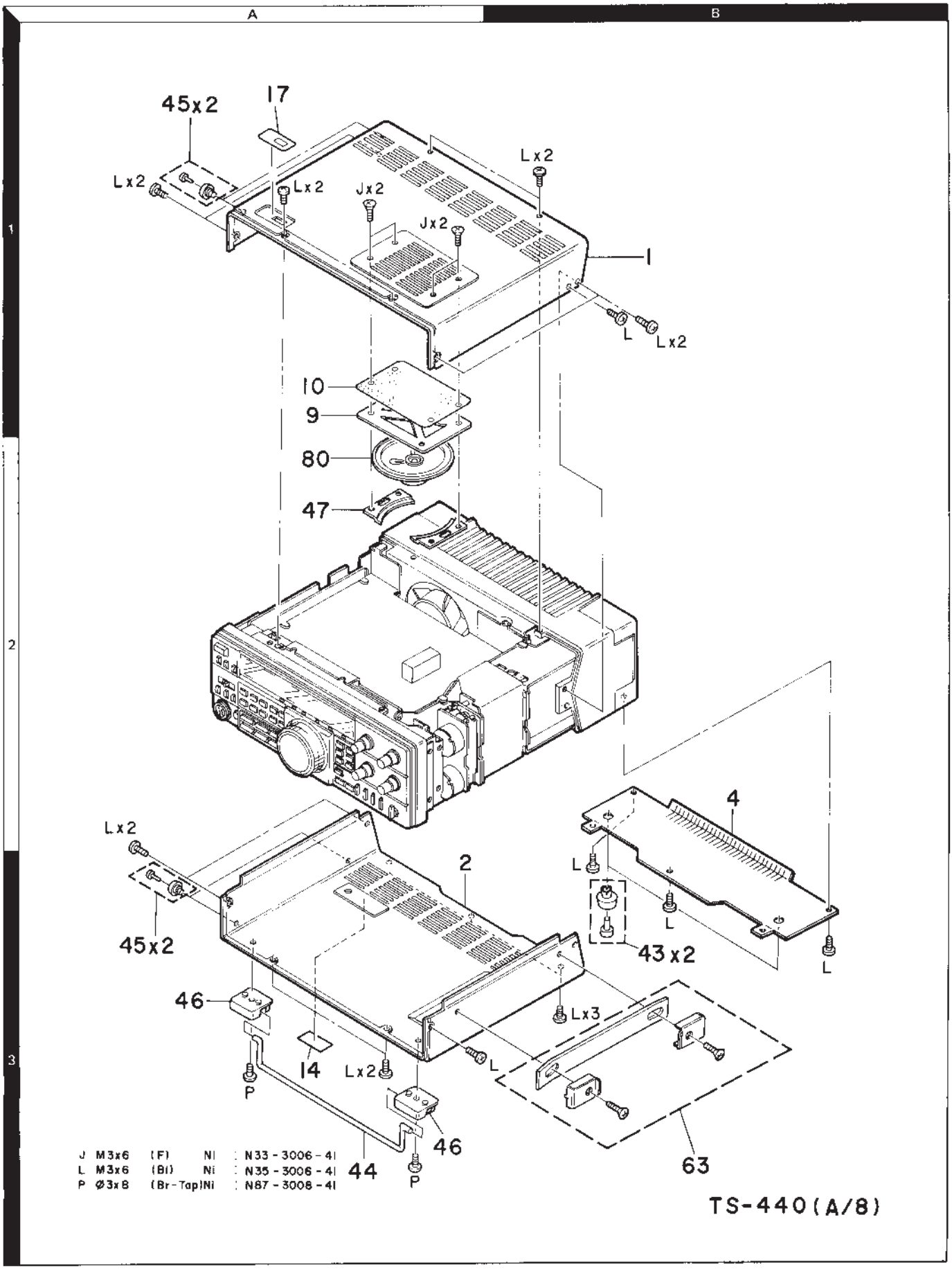
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|---|---|---|---|---|---|---|
| D35 | | | 1N60 | DIODE | | |
| D36 | | | 1S1587 | DIODE | | |
| D37 ,38 | | | 1S1555 | DIODE | | |
| D39 | | | 1N60 | DIODE | | |
| D40 | | | 1S1555 | DIODE | | |
| D41 | | | 1SS133 | DIODE | | |
| D42 ,43 | | | 1N60 | DIODE | | |
| D45 ,46 | | | 1SS133 | DIODE | | |
| D47 | | | MI204 | DIODE | | |
| D48 ,49 | | | 1SS133 | DIODE | | |
| D50 | | | 1S1587 | DIODE | | |
| D51 | | | MTZ9.1JB | DIODE | | |
| D52 | | | V06B | DIODE | | |
| D53 ,54 | | | 1S1587 | DIODE | | |
| D55 | | | MTZ6.2JA | DIODE | | |
| D56 -59 | | | 1SS133 | DIODE | | |
| D60 | | | MC921 | DIODE | | |
| D61 | | * | DAN401 | DIODE ARRAY | | |
| D62 | | | MC921 | DIODE | | |
| D63 | | | 1SS133 | DIODE | | |
| D65 ,66 | | | 1S1555 | DIODE | | |
| D67 | | | 1SS101 | DIODE | | |
| D68 -72 | | | MC921 | DIODE | | |
| D74 ,75 | | | MC921 | DIODE | | |
| D76 -80 | | | 1SS133 | DIODE | | |
| D81 | | | 1S1555 | DIODE | | |
| D82 -84 | | | 1SS133 | DIODE | | |
| IC1 | | | BX7191 | IC(NOTCH/PEAK FILTER) | | |
| IC2 | | | MC3357P | IC | | |
| IC3 | | * | M74LS123P | IC(DUAL MONO MALTI) | | |
| IC3 | | * | SN74LS123N | IC | | |
| IC4 | | | UPC1158H2 | IC | | |
| IC5 ,6 | | | AN612 | IC(BALANCED MODULATOR) | | |
| IC7 | | | UPC2002V | IC(OPE AMP X2) | | |
| IC8 ,9 | | * | M74LS00P | IC | | |
| IC8 ,9 | | | SN74LS00N | IC | | |
| IC10 | | | BX6124 | IC(2CH SWITCHING IC) | | |
| Q1 ,2 | | | 3SK73(GR) | FET | | |
| Q3 | | | 2SC2458(Y) | TRANSISTOR | | |
| Q4 | | | DTC114ES | DIGITAL TRANSISTOR | | |
| Q5 | | | 3SK73(GR) | FET | | |
| Q6 | | | DTC114ES | DIGITAL TRANSISTOR | | |
| Q7 ,8 | | | 3SK73(GR) | FET | | |
| Q9 | | | 2SC2458(Y) | TRANSISTOR | | |
| Q10 | | | 2SC2459(BL) | TRANSISTOR | | |
| Q11 | | | DTC114ES | DIGITAL TRANSISTOR | | |
| Q12 | | | 2SC2459(BL) | TRANSISTOR | | |
| Q13 | | | DTC114ES | DIGITAL TRANSISTOR | | |
| Q14 | | | DTC143TS | DIGITAL TRANSISTOR | | |
| Q15 | | | DTC114ES | DIGITAL TRANSISTOR | | |
| Q16 | | | 2SC2459(BL) | TRANSISTOR | | |
| Q17 | | | 2SC2458(Y) | TRANSISTOR | | |
| Q18 | | | 2SA1048(Y) | TRANSISTOR | | |
| Q19 | | | 2SC2458(Y) | TRANSISTOR | | |
| Q20 | | | 2SK192(GR) | FET | | |

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| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Destination 仕向 | Remarks 備考 |
|---|---|---|---|---|---|---|
| Q21 | | | 2SA1048(Y) | TRANSISTOR | | |
| Q22 | | | DTC114ES | DIGITAL TRANSISTOR | | |
| Q23 ,24 | | | 2SC2458(Y) | TRANSISTOR | | |
| Q25 ,26 | | | 2SK30A(O) | FET | | |
| Q27 | | | 2SA1048(Y) | TRANSISTOR | | |
| Q28 | | | DTC114ES | DIGITAL TRANSISTOR | | |
| Q29 -32 | | | DTC143TS | DIGITAL TRANSISTOR | | |
| Q33 | | * | 2SA562TM | TRANSISTOR | | |
| Q34 | | | 2SC2458(Y) | TRANSISTOR | | |
| Q35 | | * | 2SA562TM | TRANSISTOR | | |
| Q36 ,37 | | | DTC114ES | DIGITAL TRANSISTOR | | |
| Q38 | | * | 2SA562TM | TRANSISTOR | | |
| Q39 | | | DTC114ES | DIGITAL TRANSISTOR | | |
| Q40 | | | 2SC2459(BL) | TRANSISTOR | | |
| Q41 | | | DTC114ES | DIGITAL TRANSISTOR | | |
| Q42 | | | 2SC2458(Y) | TRANSISTOR | | |
| Q43 | | | DTA114ES | DIGITAL TRANSISTOR | | |
| Q44 | | | 2SC2459(BL) | TRANSISTOR | | |
| Q45 | | | 2SC2458(Y) | TRANSISTOR | | |
| Q46 | | | 3SK73(GR) | FET | | |
| Q47 ,48 | | | DTC143TS | DIGITAL TRANSISTOR | | |
| Q49 | | | 2SA1048(Y) | TRANSISTOR | | |
| Q50 | | | DTC114ES | DIGITAL TRANSISTOR | | |
| Q51 | | | DTC143TS | DIGITAL TRANSISTOR | | |
| Q52 | | | 2SC2459(BL) | TRANSISTOR | | |
| Q53 ,54 | | | 2SC2458(Y) | TRANSISTOR | | |
| Q55 | | | DTC114ES | DIGITAL TRANSISTOR | | |
| TH1 ,2 | | | 112-502-2 | THERMISTOR | | |
| TH3 | | | 32D27 | THERMISTOR | | |
| - | | * | X59-1060-00 | SIDE TONE UNIT | | |
| - | | * | X59-1070-00 | SELECTIVITY UNIT | | |
| - | | * | X59-1080-00 | VOX UNIT | | |

# DISASSEMBLY

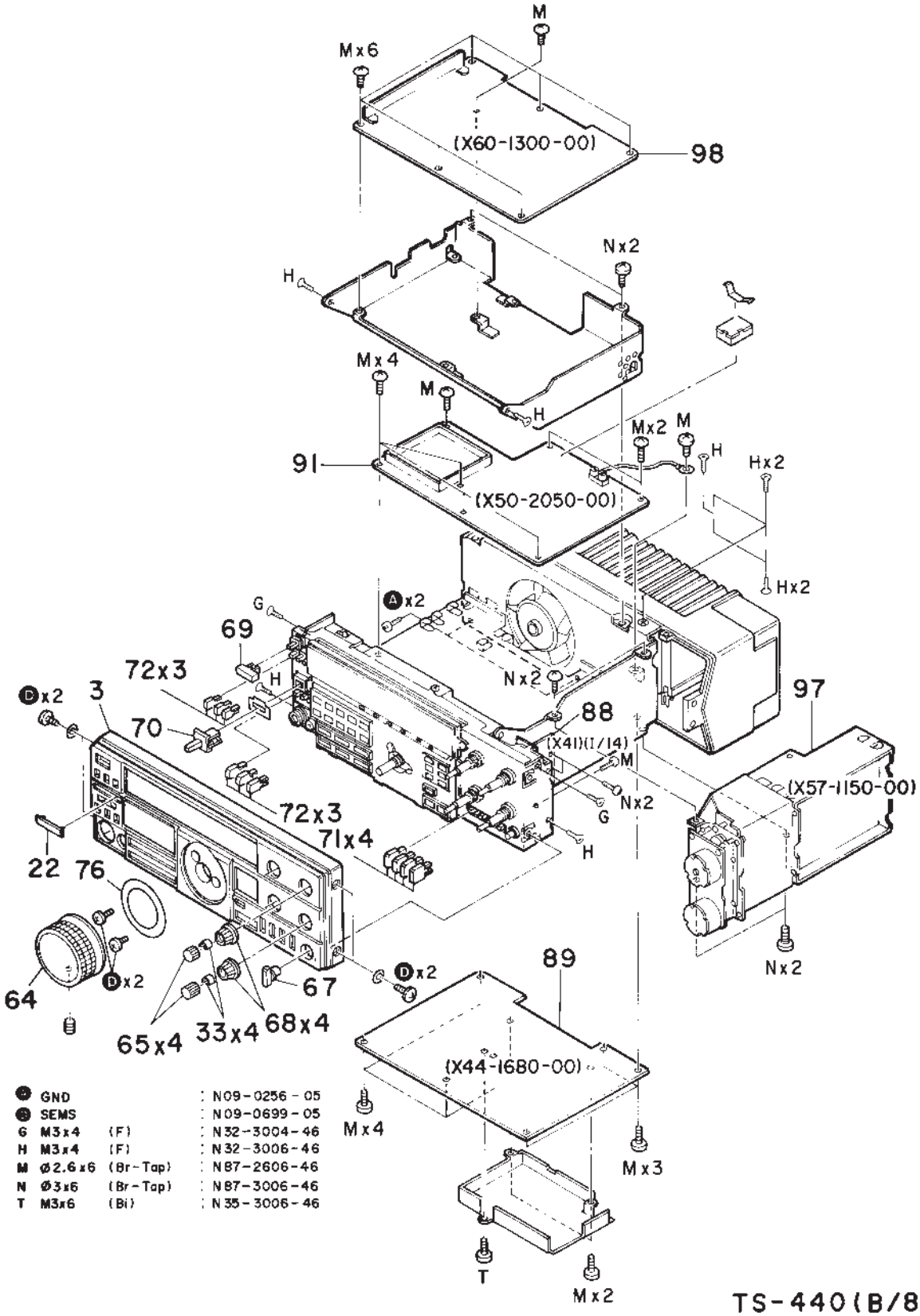



Parts with the exploded numbers larger than 700 are not supplied.



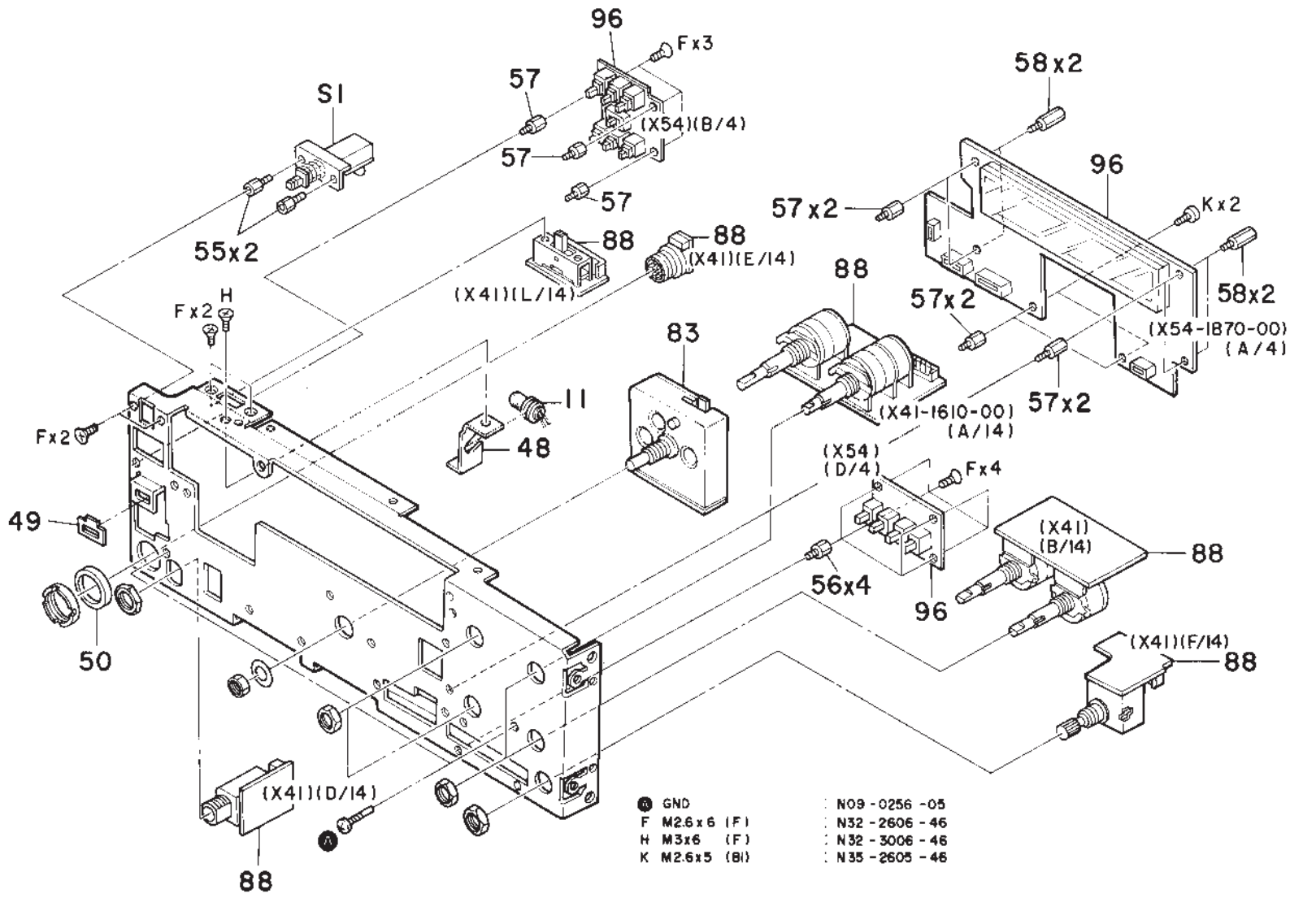
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# DISASSEMBLY



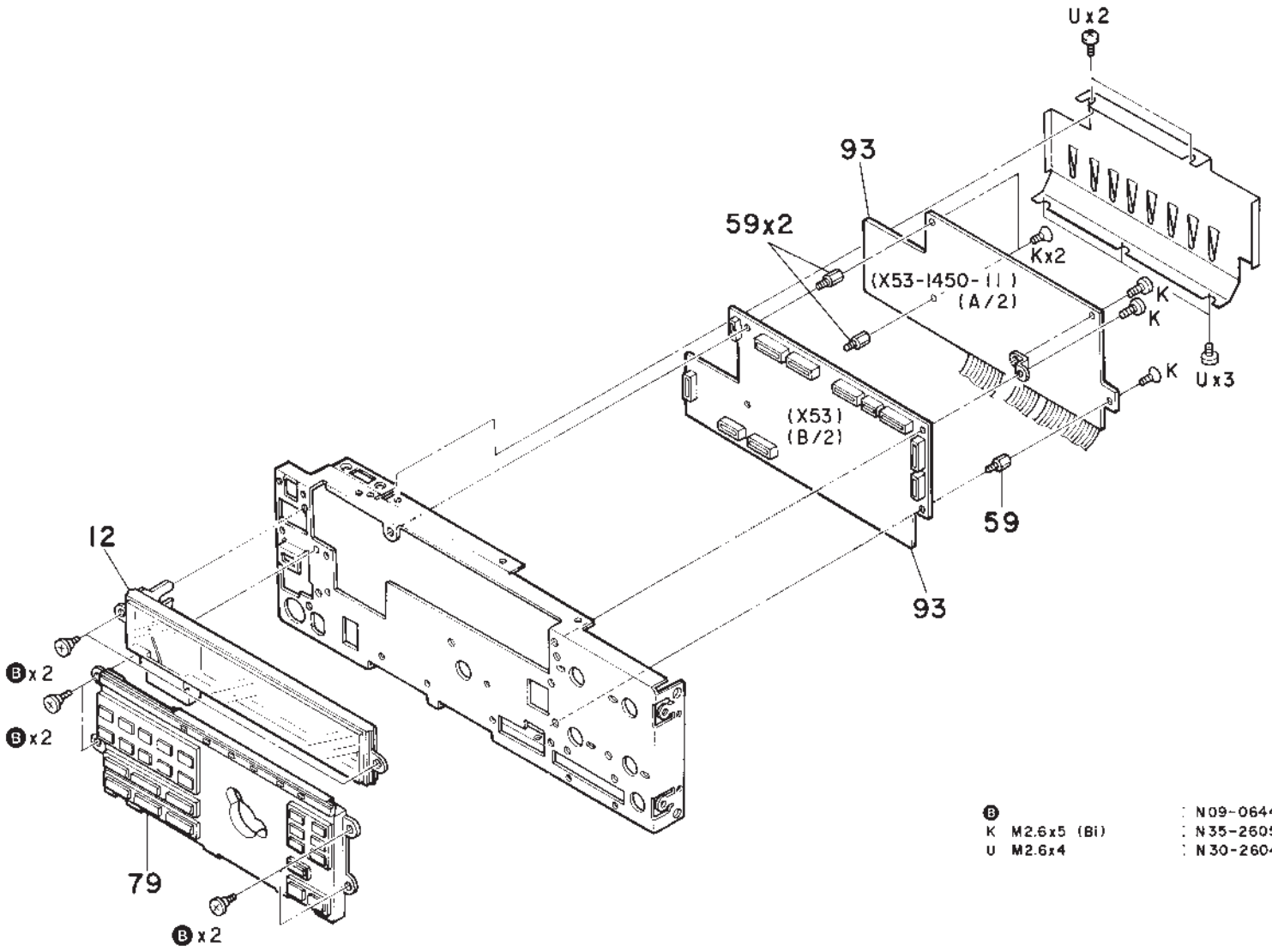

| | | | |
|---|---|---|---|
| Ⓖ | GND | | : N09-0256-05 |
| Ⓢ | SEMS | | : N09-0699-05 |
| G | M3x4 | (F) | : N32-3004-46 |
| H | M3x4 | (F) | : N32-3006-46 |
| M | Ø2.6x6 | (Br-Tap) | : N87-2606-46 |
| N | Ø3x6 | (Br-Tap) | : N87-3006-46 |
| T | M3x6 | (Bi) | : N35-3006-46 |

Parts with the exploded numbers larger than 700 are not supplied.




TS-440(C/8)

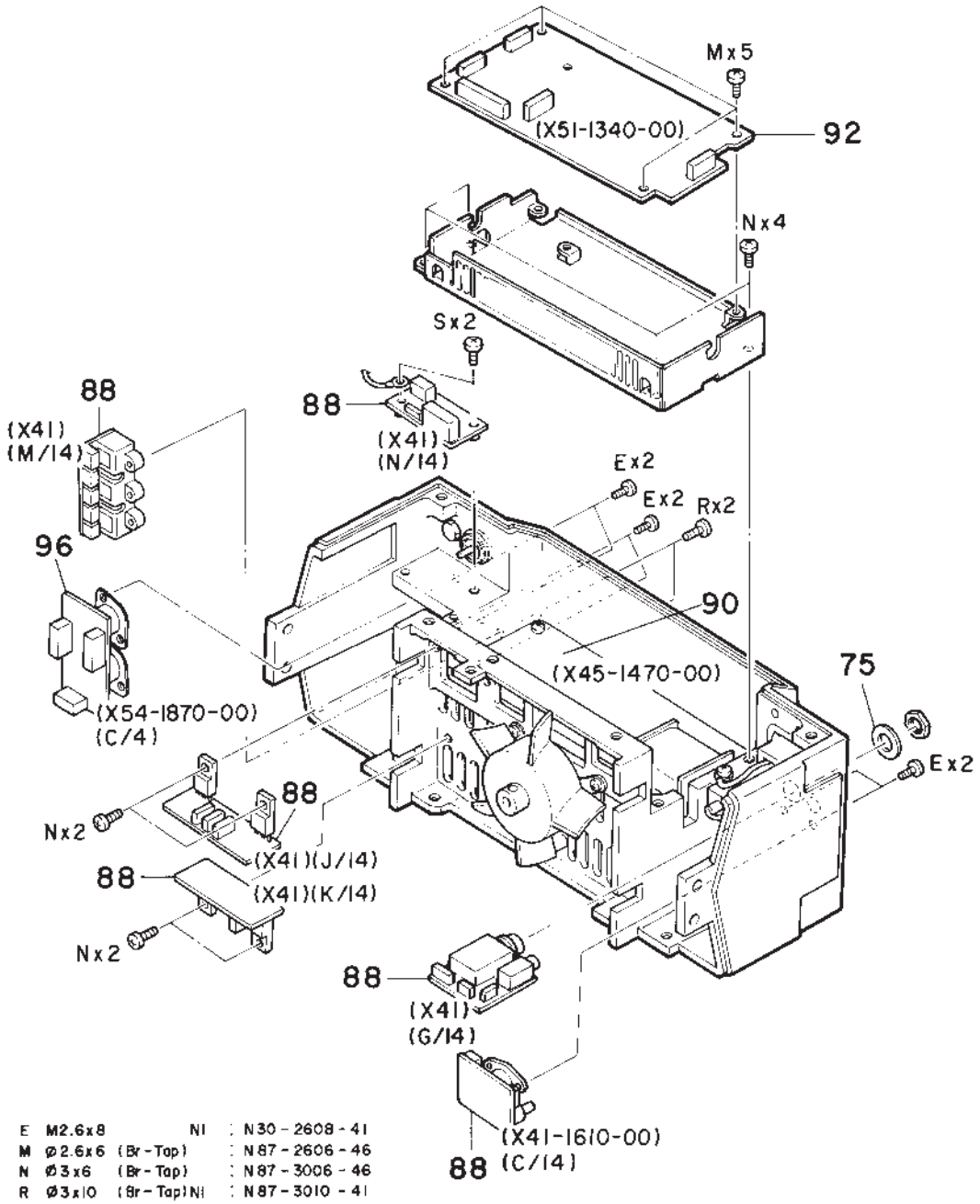
Parts with the exploded numbers larger than 700 are not supplied.




TS-440(D/8)

Parts with the exploded numbers larger than 700 are not supplied.

# DISASSEMBLY

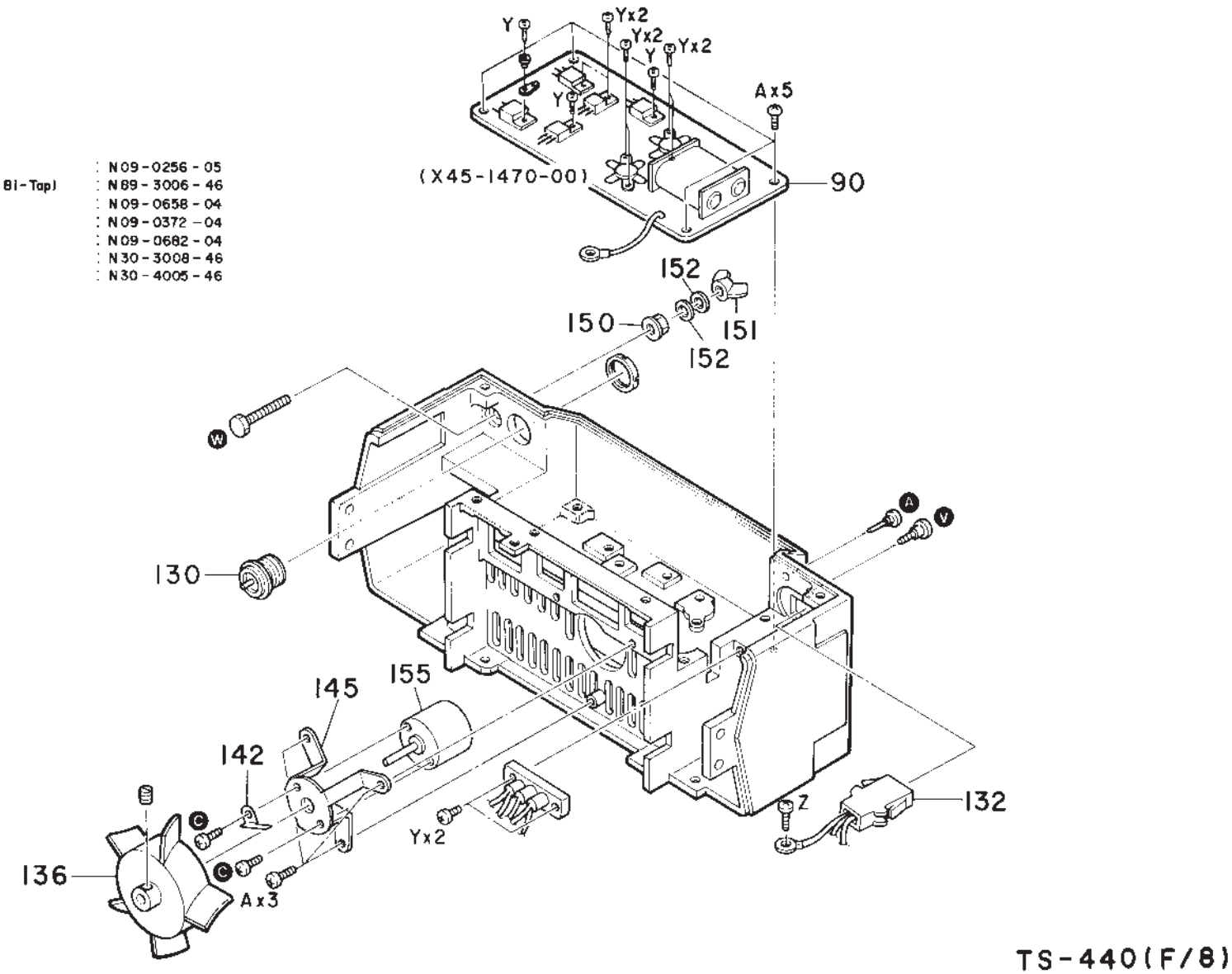



| | | | |
|---|---|---|---|
| E | M2.6x8 | Ni | : N30-2608-41 |
| M | Ø2.6x6 | (Br-Tap) | : N87-2606-46 |
| N | Ø3x6 | (Br-Tap) | : N87-3006-46 |
| R | Ø3x10 | (Br-Tap)Ni | : N87-3010-41 |

TS-440(E/8)

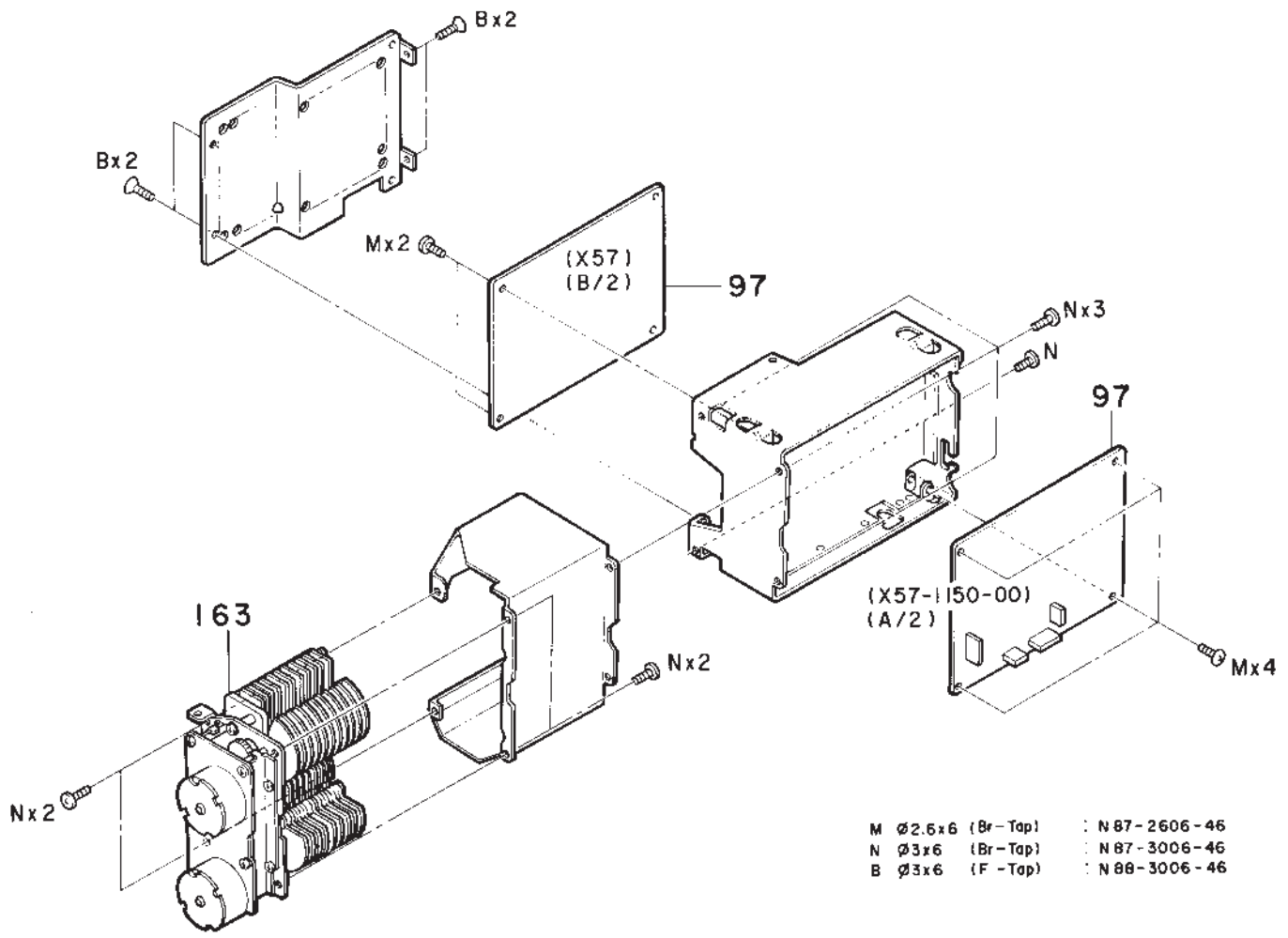
Parts with the exploded numbers larger than 700 are not supplied.

| | | |
|---|---|---|
| ⏚ | GND | : N09-0256-05 |
| A | ø3x6 (Bi-Tap) | : N89-3006-46 |
| ● | | : N09-0658-04 |
| ● | M3x8.8 | : N09-0372-04 |
| ● | | : N09-0682-04 |
| Y | M3x8 | : N30-3008-46 |
| Z | M4x5 | : N30-4005-46 |




TS-440(F/8)

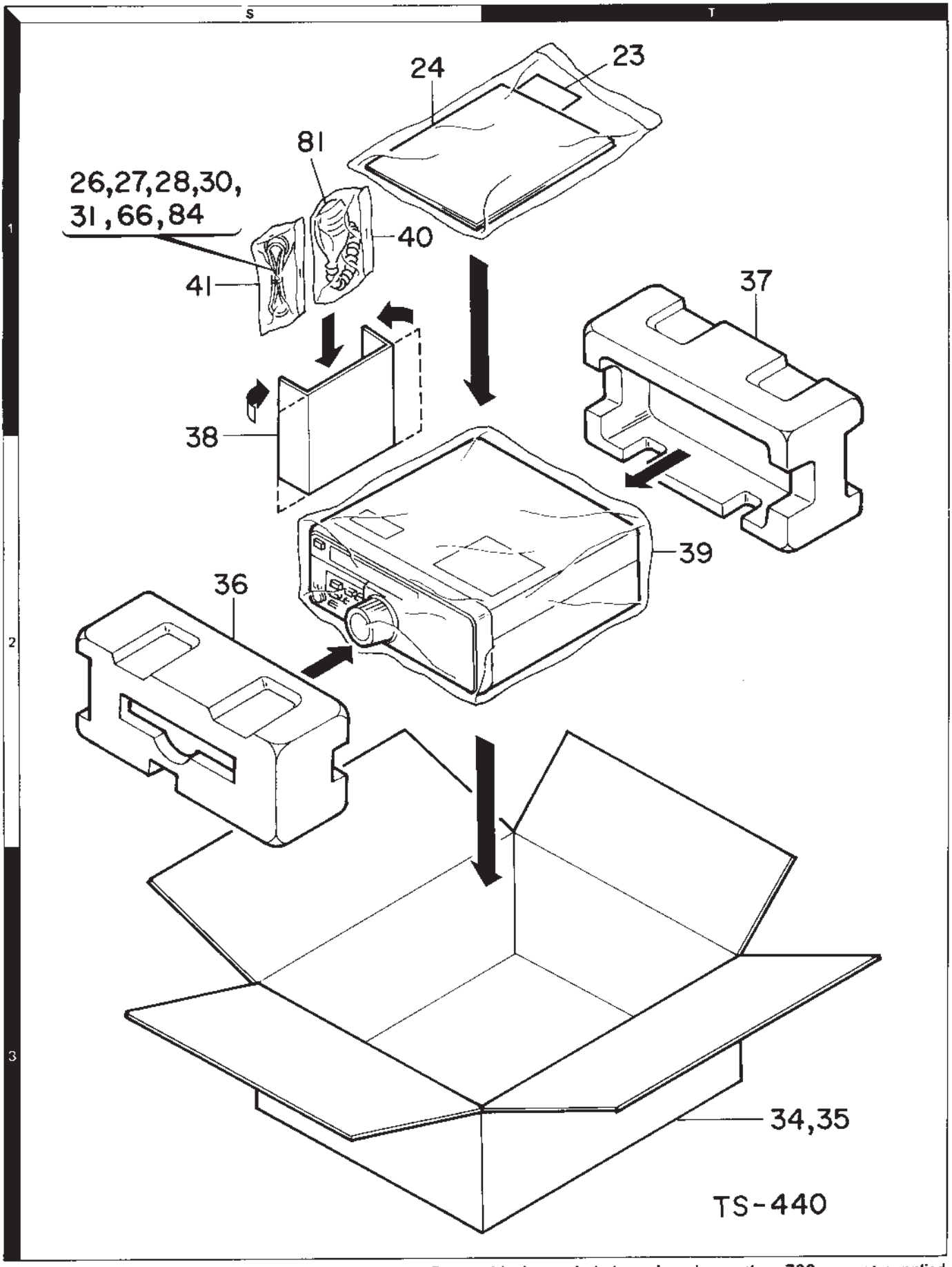
Parts with the exploded numbers larger than 700 are not supplied.




TS-440(G/8)

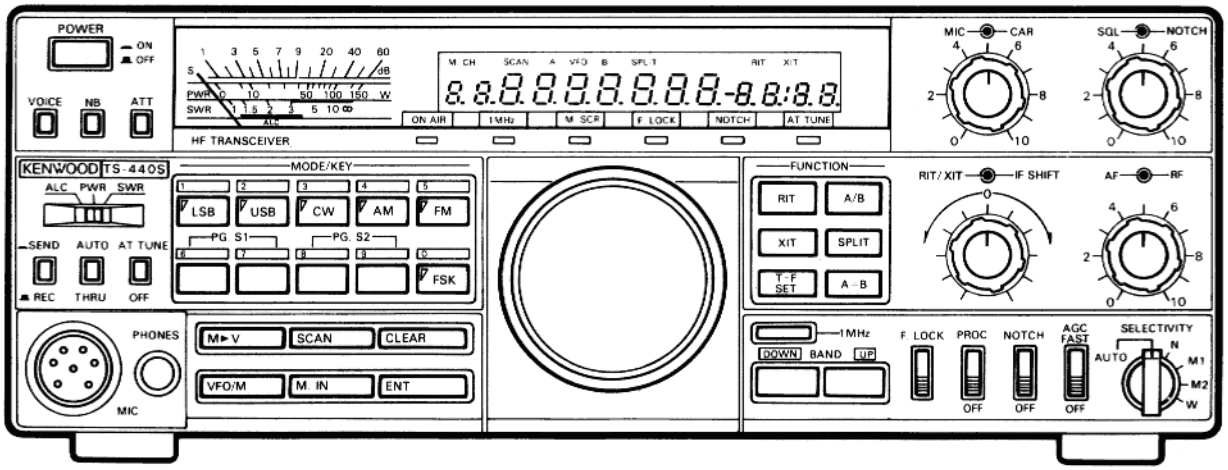
Parts with the exploded numbers larger than 700 are not supplied.

# PACKING




Parts with the exploded numbers larger than 700 are not supplied.

# ADJUSTMENT




## PREPARATION

Unless otherwise specified, set the controls as follows.

| | | | |
|---|---|---|---|
| POWER | ON | SELECTIVITY | AUTO |
| BAND | 14 | AGC FAST | SLOW |
| AF | MIN | NOTCH SW | OFF |
| RF | MAX | PROC SW | OFF |
| NOTCH | CENTER | F.LOCK SW | OFF |
| SQUELCH | MIN | 1MHz SW | OFF |
| MIC | MIN | NB SW | OFF |
| CAR | MIN | ATT SW | OFF |
| IF-SHIFT | CENTER | SEND/REC | REC |
| FUNCTION | | AUTO | OFF |
| A/B | A | AT TUNE | OFF |
| RIT,XIT,SPLIT | OFF | VOX SW | OFF |

## REQUIRED TEST EQUIPMENT

1. **DC Voltmeter (DC V.M)**
   1) Input resistance: More than 1MΩ
   2) Voltage range: 1.5 to 1000V AC/DC

   **NOTE:** A high-precision multimeter may be used. However, accurate reading can not be obtained for high-impedance circuits.
2. **DC Ammeter**
   1) Current range: 1.5A, 3A, 20A, High-precision ammeter may be used.
3. **RF VTVM (RF V.M)**
   1) Input impedance: 1MΩ and less than 3pF, min.
   2) Voltage range: 10mV to 300V
   3) Frequency range: 10kHz to 100MHz or greater
4. **AF Voltmeter (AF V.M)**
   1) Frequency range: 50Hz to 10kHz
   2) Input resistance: 1MΩ or greater
   3) Voltage range: 10mV to 30V
5. **AF Generator (AG)**
   1) Frequency range: 200Hz to 5kHz
   2) Output: 1mV or less to 1V, low distortion
6. **AF Dummy Load**
   1) Impedance: 8Ω
   2) Dissipation: 3W or greater
7. **Oscilloscope (SCOPE)**

   Requires high sensitivity, and external synchronization capability.
8. **Sweep Generator (SWEEP)**
   1) Center frequency: 50kHz to 90MHz
   2) Frequency deviation: Maximum ± 35MHz
   3) Output voltage: 0.1V or greater
9. **Standard Signal Generator (SSG)**
   1) Frequency range: 50kHz to 50MHz
   2) Output: −20dB/0.1μV to 120dB/1V
   3) Output impedance: 50Ω
   4) AM and FM modulation can be possible.

   **NOTE:** Generator must be frequency stable.
10. **Frequency Counter (f. counter)**
    1) Minimum input voltage: 50mV
    2) Frequency range: 50MHz or greater
11. **Noise Generator**

    Must generate ignition noise containing harmonics beyond 30MHz.
12. **RF Dummy Load**
    1) Impedance: 150Ω and 20Ω
    2) Dissipation: 150W or greater
13. **Power Meter**
    1) Impedance: 50Ω
    2) Dissipation: 150W cintinuous or greater
    3) Frequency limits: 60MHz or greater