

**FIXED MOUNT MARINE VHF TRANSCEIVER****GX1400GPS****GX1400GPS/E****GX1400**

EM065N90A

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***Introduction***

This manual provides the technical information necessary for servicing the GX1400GPS, GX1400GPS/E and GX1400 Transceiver.

Servicing this equipment requires expertise in handling surface-mount chip components. Attempts by non-qualified persons to service this equipment may result in permanent damage not covered by the warranty, and may be illegal in some countries.

While we believe the information in this manual to be correct, YAESU assumes no liability for damage that may occur as a result of typographical or other errors that may be present. Your cooperation in pointing out any inconsistencies in the technical information would be appreciated.

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**Important Note**

This transceiver was assembled using Pb (lead) free solder, based on the RoHS specification.

Only lead-free solder (Alloy Composition: Sn-3.0Ag-0.5Cu) should be used for repairs performed on this apparatus. The solder stated above utilizes the alloy composition required for compliance with the lead-free specification, and any solder with the above alloy composition may be used.

## General

|                                    |                                                                            |
|------------------------------------|----------------------------------------------------------------------------|
| Channels                           | All International, USA and Canadian*<br>*(Depending on the region setting) |
| Normal Input Voltage               | 13.8 V DC                                                                  |
| Operating Voltage Range            | 11 V to 16.5 V                                                             |
| Current Drain                      |                                                                            |
| Standby                            | 0.3 A                                                                      |
| Receiver (at Maximum AF Output)    | 1.2 A                                                                      |
| Transmit                           | 5.0 A (Hi), 1.0 A (Lo)                                                     |
| DSC Transmitted Call Log           | 30                                                                         |
| DSC Distress Call Log              | 30                                                                         |
| DSC Received Call Log              | 50                                                                         |
| Individual Directory               | 60                                                                         |
| Group Directory                    | 30                                                                         |
| Display Type                       | 2.6" x 1.4" (66 x 36 mm)<br>Full Dot Matrix (102 x 56 pixels)              |
| Dimensions (W x H x D)             | 6.14" x 2.40" x 3.94" (156 x 61 x 100 mm)                                  |
| Flush-Mount Dimensions (W x H x D) | 5.16" x 1.97" x 4.72" (131 x 50 x 120 mm)                                  |
| Weight                             | 1.76 lbs (800 g)                                                           |

## Transmitter

|                              |                                                                                  |
|------------------------------|----------------------------------------------------------------------------------|
| Frequency Range              | 156.025 MHz to 161.600 MHz (INTERNATIONAL)                                       |
| RF Output Power              | 25 W (Hi), 1 W (Lo)                                                              |
| Conducted Spurious Emissions | Less than -80 dBc (Hi), -66 dBc (Lo)                                             |
| Audio Response               | within +1/-3dB of a 6 dB/Octave<br>pre-emphasis characteristic at 300 to 3000 Hz |
| Audio Distortion             | Less than 5 %                                                                    |
| Modulation                   | 16K0G3E (for Voice), 16K0G2B (for DSC)                                           |
| Frequency Stability          | ±0.0003 % (-4 °F to +140 °F [-20 °C to +60 °C])                                  |
| FM Hum and Noise             | 50 dB                                                                            |

## Receiver (for Voice and DSC)

|                                 |                                                                                 |
|---------------------------------|---------------------------------------------------------------------------------|
| Frequency Range                 | 156.050 MHz to 163.275 MHz                                                      |
| Sensitivity                     |                                                                                 |
| 20 dB Quieting                  | 0.30 $\mu$ V                                                                    |
| 12 dB SINAD                     | 0.25 $\mu$ V                                                                    |
| Squelch Sensitivity (Threshold) | 0.13 $\mu$ V                                                                    |
| Modulation Acceptance Bandwidth | $\pm$ 7.5 kHz                                                                   |
| Selectivity (Typical)           |                                                                                 |
| Spurious and Image Rejection    | 75 dB for Voice (70 dB for DSC)                                                 |
| Intermodulation and Rejection   | 70 dB for Voice (70 dB for DSC)                                                 |
| Audio Output                    | 4.5 W (at 4 ohms external speaker output)                                       |
| Audio Response                  | within +1/–3dB of a 6 dB/Octave<br>de-emphasis characteristic at 300 to 3000 Hz |
| Frequency Stability             | $\pm$ 0.0003 % (–4 °F to +140 °F [–20 °C to +60 °C])                            |
| Channel Spacing                 | 25 kHz                                                                          |
| DSC Format                      | ITU-R M.493-13<br>(European version: Meets ITU-R M493-14)                       |

## INTERNAL GPS RECEIVER (GX1400GPS and GX1400GPS/E only)

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| Receiver Channels | 66 Channels                                                       |
| Sensitivity       | Less than –147 dBm                                                |
| Time to First Fix | 1 minute typical (@Cold Start)<br>5 seconds typical (@ Hot Start) |
| Geodetic Datum    | WGS84                                                             |

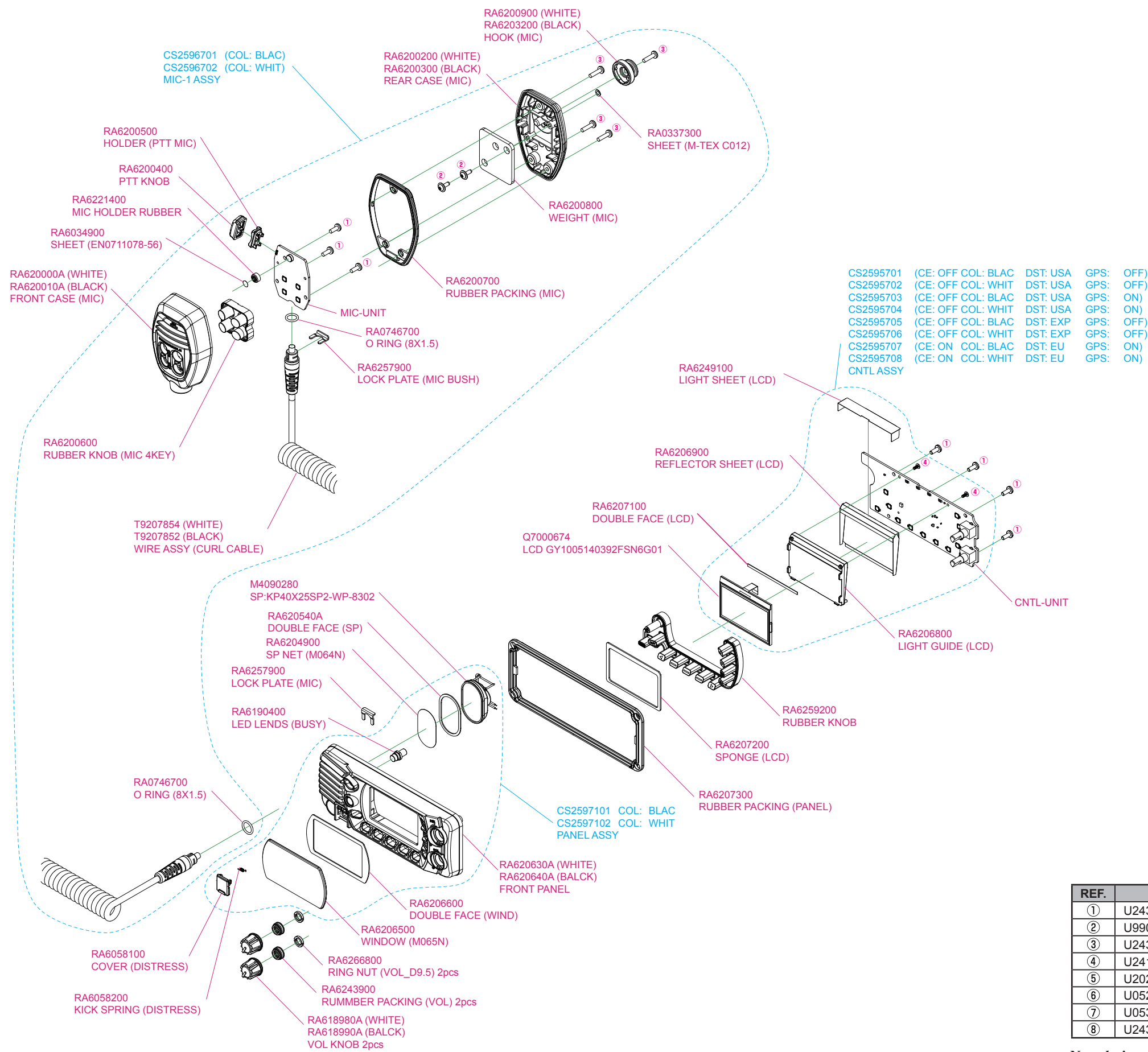
## NMEA 0183 INPUT/OUTPUT Sentences

|                                  |                                               |
|----------------------------------|-----------------------------------------------|
| 4800 Baud selected:              |                                               |
| NMEA 0183 Input (4800 baud)      | GGA, GLL, GNS, RMC, GSA, & GSV                |
| NMEA 0183 Output (4800 baud)     | DSC, DSE, GGA*, GLL*, GNS*, RMC*, GSA* & GSV* |
| 38400 Baud selected:             |                                               |
| NMEA 0183-HS Input (38400 baud)  | GGA, GLL, GNS, RMC, GSA, & GSV                |
| NMEA 0183-HS Output (38400 baud) | DSC, DSE, GGA*, GLL*, GNS*, RMC*, GSA* & GSV* |

\*(GX1400GPS and GX1400GPS/E only)

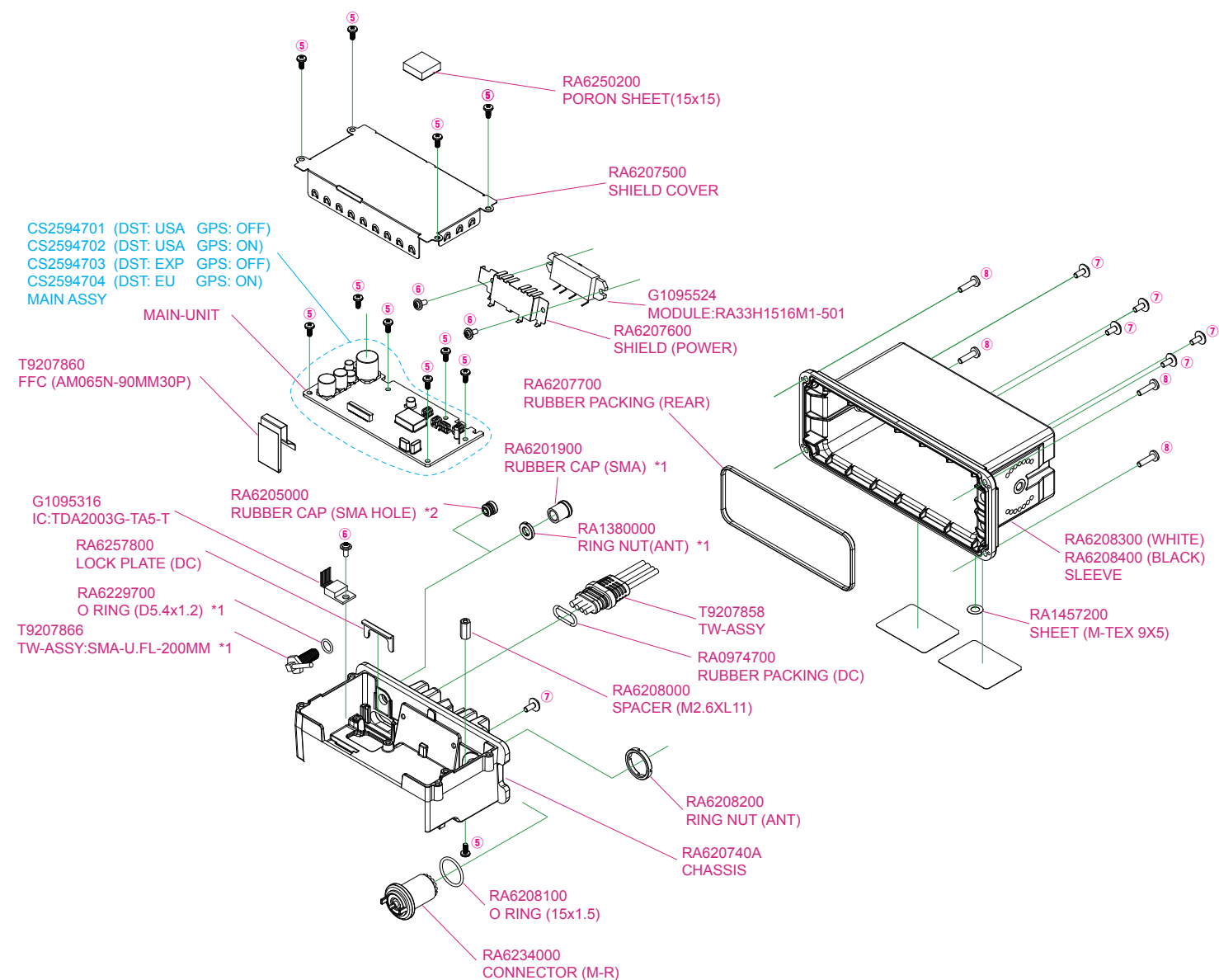
*Performance specifications are nominal, unless otherwise indicated, and are subject to change without notice. Measured in accordance with TIA/EIA-603.*

Exploded View & Miscellaneous Parts



Exploded View-1

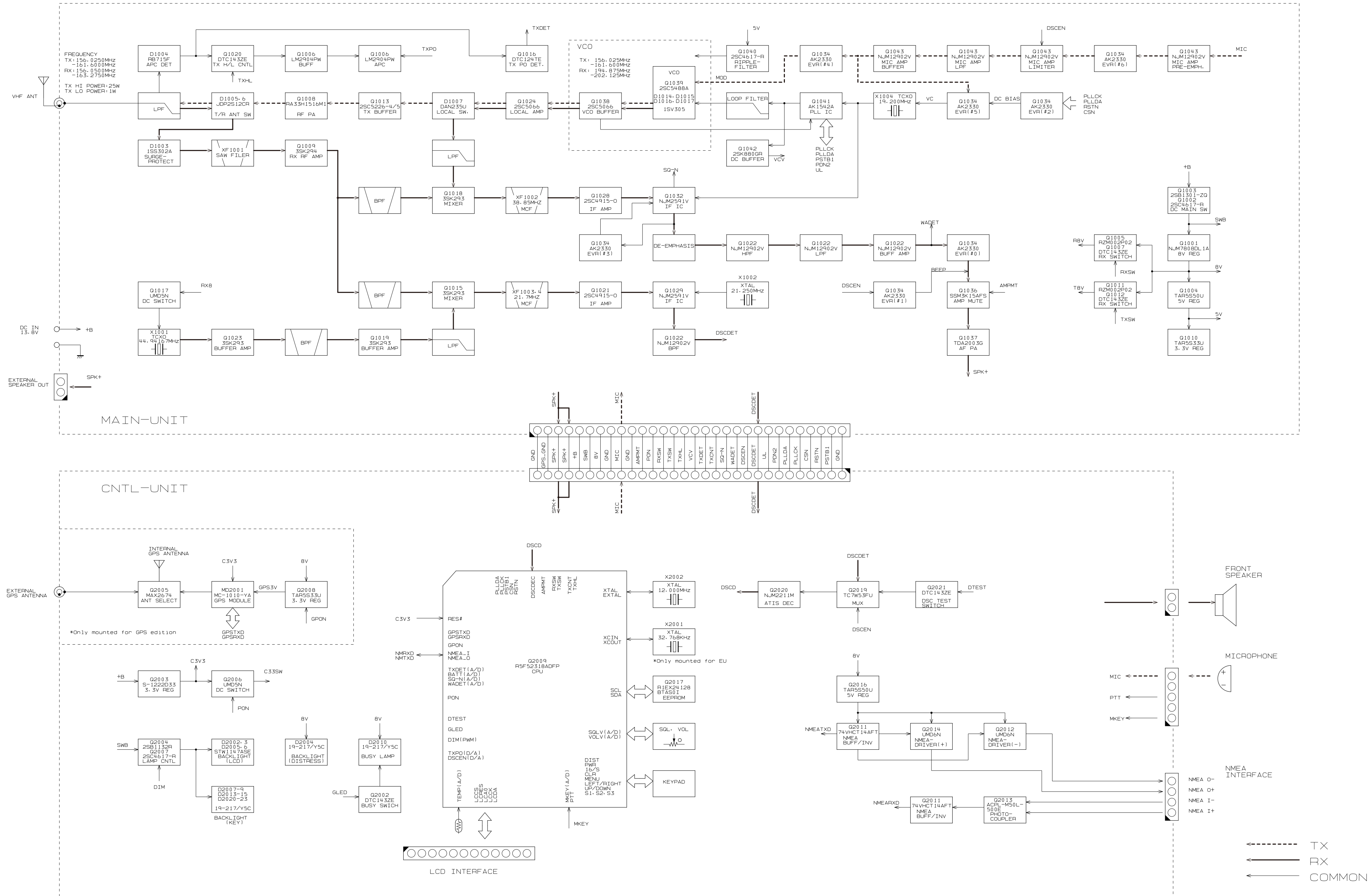
Non-designated parts are available only as part of a designated assembly.



| ACCESSORIES                       |                        |
|-----------------------------------|------------------------|
| DESCRIPTION                       | YAESU P/N              |
| DC CABLE                          | T9028406               |
| MIC HOLDER (WHITE)<br>(BLACK)     | RA0436000<br>RA0458800 |
| MOBILE BRACKET (WHITE)<br>(BLACK) | RA6208500<br>RA6208600 |
| BRACKET SCREW (WHITE)<br>(BLACK)  | RA6204000<br>RA6204100 |

| REF. | YAESU P/N | DESCRIPTION                  | QTY.  |
|------|-----------|------------------------------|-------|
| ①    | U24308001 | BIND HEAD TAPTITE-B M3X8     | 7pcs  |
| ②    | U9900338  | BIND HEAD TAPTITE-B:HM3X8    | 2pcs  |
| ③    | U24312020 | BIND HEAD TAPTITE-B M3X12SUS | 4pcs  |
| ④    | U24105001 | BIND HEAD TAPTITE-B M2X5(3)  | 2pcs  |
| ⑤    | U20206001 | BINDING HEAD SCREW M2.6X6    | 11pcs |
| ⑥    | U05206002 | CAP SCREW TM2.6X6NI          | 3pcs  |
| ⑦    | U05307020 | CAP SCREW TM3X7SUS           | 6pcs  |
| ⑧    | U24310020 | BIND HEAD TAPTITE-B M3X10SUS | 4pcs  |

Non-designated parts are available only as part of a designated assembly.



## Introduction and Precautions

The GX1400 Series has been carefully aligned at the factory for performance across the specified VHF Marine band. Realignment should therefore not be necessary except in the event of a component failure. All component replacement and service should be performed only by an authorized STANDARD HORIZON representative, or the warranty policy may be voided.

The following procedures cover the sometimes critical and tedious adjustments that are not normally required once the transceiver has left the factory. However, if damage occurs and some parts are replaced, realignment may be required. If a sudden problem occurs during normal operation, it is likely due to component failure; realignment should not be done until after the faulty component has been replaced.

We recommend that servicing be performed only by authorized STANDARD HORIZON service technicians, who are experienced with the circuitry and fully equipped for repair and alignment. Therefore, if a fault is suspected, contact the dealer from whom the transceiver was purchased for instructions regarding repair. Authorized STANDARD HORIZON service technicians realign all circuits and make complete performance checks to ensure compliance with factory specifications after replacing any faulty components.

Those who do undertake any of the following alignments are cautioned to proceed at their own risk. Problems caused by unauthorized attempts at realignment are not covered by the warranty policy. Also, STANDARD HORIZON must reserve the right to change circuits and alignment procedures in the interest of improved performance, without notifying owners.

Under no circumstances should any alignment be attempted unless the normal function and operation of the transceiver are clearly understood, the cause of the malfunction has been clearly pinpointed and any faulty components replaced, and the need for realignment determined to be absolutely necessary.

## Required Test Equipment

- ☐ RF Signal Generator with calibrated output level at 200 MHz
- ☐ Deviation Meter (linear detector)
- ☐ In-line Wattmeter with 5% accuracy at 200 MHz
- ☐ Frequency Counter:  $\pm 0.2$  ppm accuracy at 200 MHz
- ☐ AF Signal Generator
- ☐ VHF Sampling Coupler
- ☐ 50-ohm, 30-W RF Dummy Load
- ☐ 8-ohm AF Dummy Load
- ☐ Regulated DC Power Supply 13.8 V DC, 10 A
- ☐ YSVC-07 Alignment Program

## Alignment Preparation & Precautions

A 50-ohm RF load and in-line wattmeter must be connected to the main antenna jack in all procedures that call for transmission, except where specified otherwise. Correct alignment is not possible with an antenna. After completing one step, read the next step to see if the same test equipment is required. If not, remove the test equipment (except dummy load and wattmeter, if connected) before proceeding.

Correct alignment requires that the ambient temperature be the same as that of the transceiver and test equipment, and that this temperature be held constant between 68 °F ~ 86 °F (20 °C ~ 30 °C).

When the transceiver is brought into the shop from hot or cold air, it should be allowed some time to come to room temperature before alignment.

Whenever possible, alignments should be made with oscillator shields and circuit boards firmly affixed in place.

Also, the test equipment must be thoroughly warmed up before beginning.

Set up the test equipment for transceiver alignment, apply 13.8 VDC power to the transceiver.

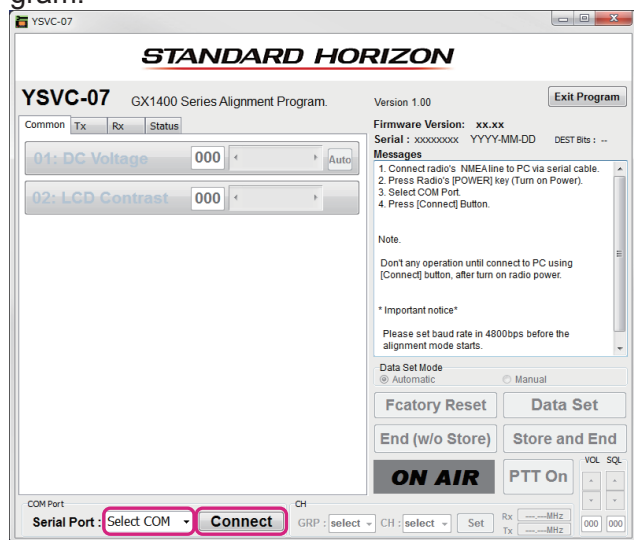
**Note:** signal levels in dB referred to in alignment are based on EMF (0 dB $\mu$  = 1.0  $\mu$ V).

### Important Notice

Do not adjust the alignment menus that are not mentioned in this manual.

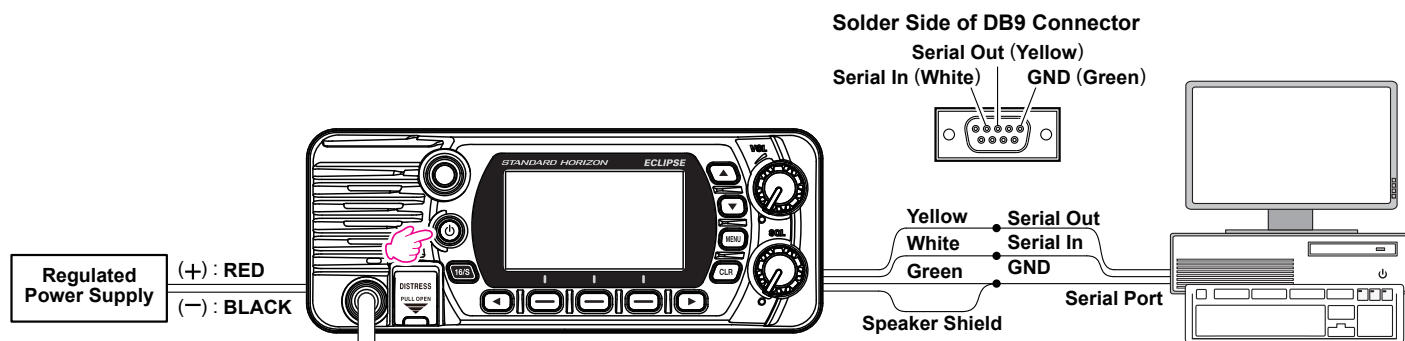
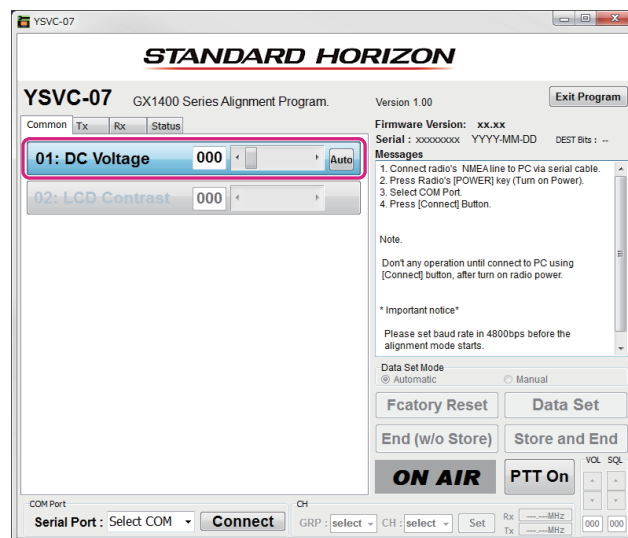
## Before Alignment

1. Install the GX1400 Series Alignment Program "YSVC-07" to the computer.
2. Connect the GX1400 to the D-SUB 9-pin serial port of the Computer, as shown below.
3. Set up the test equipment, and set the DC Power Supply voltage to 13.8 V.
4. Execute the YSVC-07 Alignment Program.
5. Turn the transceiver ON.
6. Click [Select COM] to select the COM port number which is connected to the GX1400.
7. Click the [Connect] button of the Alignment Program.



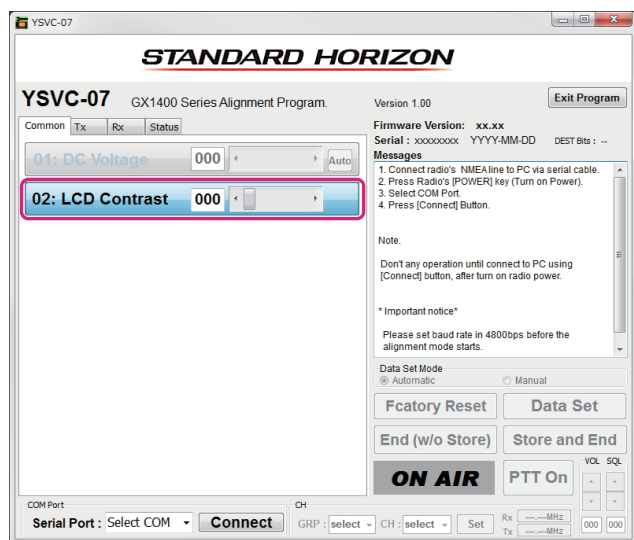
## 01: DC Voltage

1. Reduce the DC power supply voltage to 13.8 V.
2. Click the [01: DC Voltage] button. The transceiver now is in the DC Volt Alignment Mode.
3. Press the [Auto] button to read the DC Volt data.
4. Click the [01: DC Voltage] button to exit the DC Volt Alignment Mode.



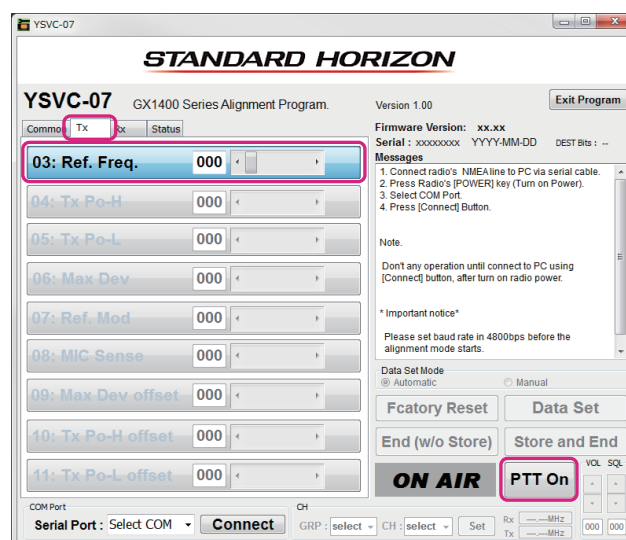
## 02: LCD Contrast

1. Click the [02: LCD Contrast] button. The transceiver now is in the Contrast Alignment Mode.
2. Click the [◀] / [▶] button (or Move the Slide Bar), until the LCD Contrast indicator displays a value in "030".
3. Click the [02: LCD Contrast] button to exit the Contrast Alignment Mode.



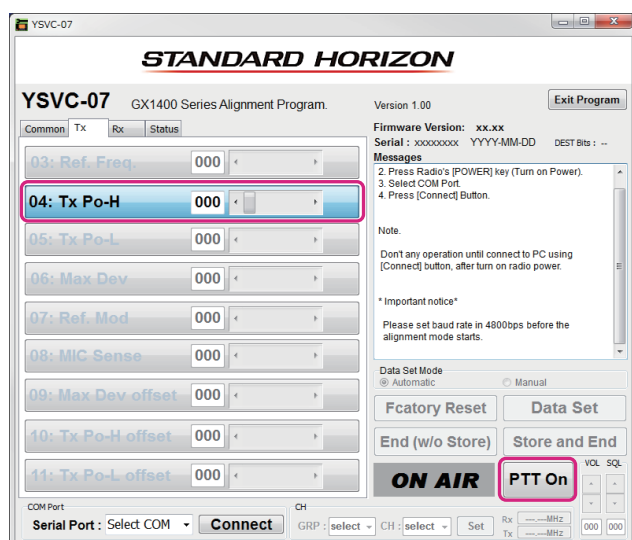
## 03: Ref. Freq.

1. Click the [Tx] tab.
2. Click the [03: Ref. Freq.] button. The transceiver now is in the Reference Frequency Alignment Mode.
3. Click the [PTT On] button.
4. Click the [◀] / [▶] button (or Move the Slide Bar), if necessary, until the frequency Counter displays transmit frequency  $\pm 100$  Hz.
5. Click the [PTT Off] button.
6. Click the [03: Ref. Freq.] button to exit the Reference Frequency Alignment Mode.



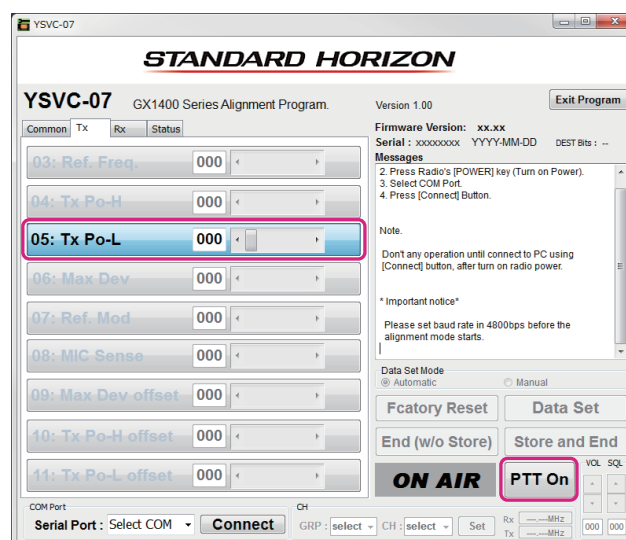
## 04: TX Po-H

1. Reduce the DC power supply voltage to 13.8 V.
2. Click the **[04: TX Po-H]** button. The transceiver now is in the Transmitter Maximum Output Power Alignment Mode.
3. Click the **[PTT On]** button.
4. Click the **[◀] / [▶]** button (or Move the Slide Bar), if necessary, until the Wattmeter displays 24 W  $\pm 0.2$  W.
5. Click the **[PTT Off]** button.
6. Click the **[04: TX Po-H]** button to exit the Transmitter Maximum Output Power Alignment Mode.



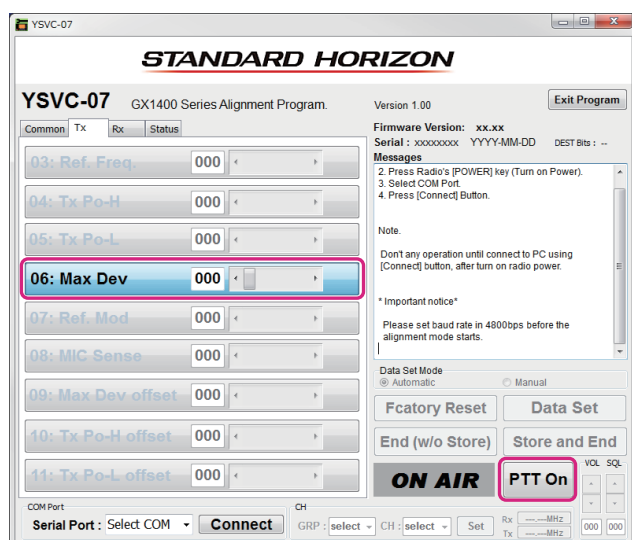
## 05: TX Po-L

1. Reduce the DC power supply voltage to 13.8 V.
2. Click the **[05: TX Po-L]** button. The transceiver now is in the Transmitter Minimum Output Power Alignment Mode.
3. Click the **[PTT On]** button.
4. Click the **[◀] / [▶]** button (or Move the Slide Bar), if necessary, until the Wattmeter displays 0.8 W  $\pm 0.05$  W.
5. Click the **[PTT Off]** button.
6. Click the **[05: TX Po-L]** button to exit the Transmitter Minimum Output Power Alignment Mode.



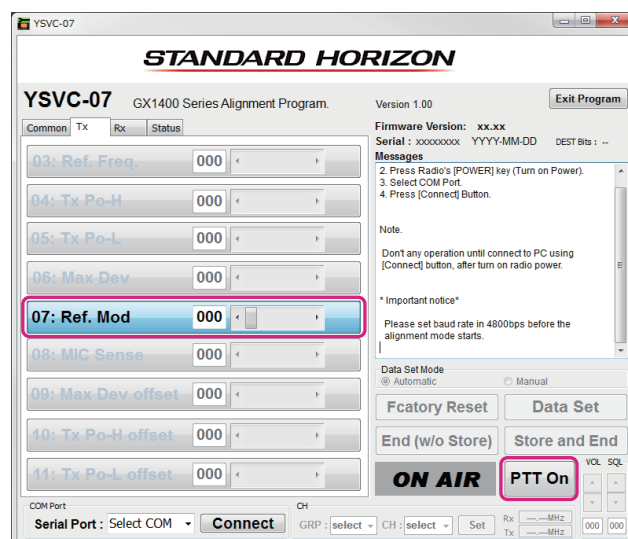
## 06: Max Dev

1. Reduce the DC power supply voltage to 13.8 V.
2. Click the **[06: Max Dev]** button. The transceiver now is in the Maximum Deviation Alignment Mode.
3. Set the AF Generator output to 500 mV rms @ 1 kHz tone.
4. Click the **[PTT On]** button.
5. Click the **[◀] / [▶]** button (or Move the Slide Bar), if necessary, until the deviation to 4.4 kHz  $\pm$ 0.1 kHz.
6. Click the **[PTT Off]** button.
7. Click the **[06: Max Dev]** button to exit the Maximum Deviation Alignment Mode.



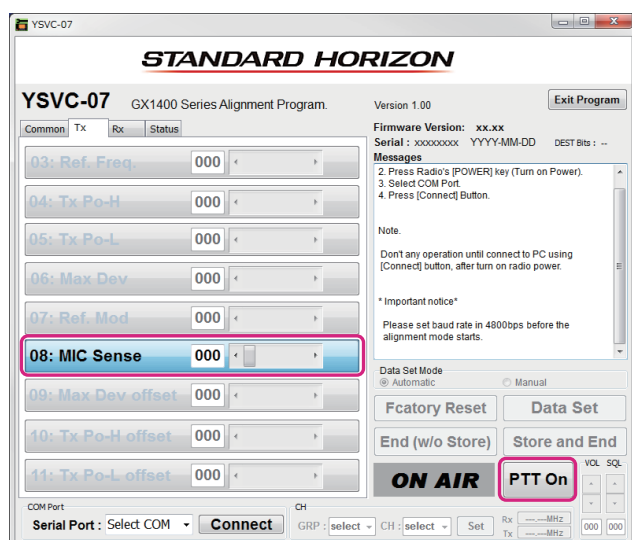
## 07: Ref. Mod

1. Reduce the DC power supply voltage to 13.8 V.
2. Click the **[07: Ref. Mod]** button. The transceiver now is in the Reference Modulation Alignment Mode.
3. Set the AF Generator output to 500 mV rms @ 500 Hz tone.
4. Click the **[PTT On]** button.
5. Click the **[◀] / [▶]** button (or Move the Slide Bar), if necessary, until the deviation to 4.4 kHz  $\pm$ 0.1 kHz.
6. Click the **[PTT Off]** button.
7. Click the **[07: Ref. Mod]** button to exit the Reference Modulation Alignment Mode.



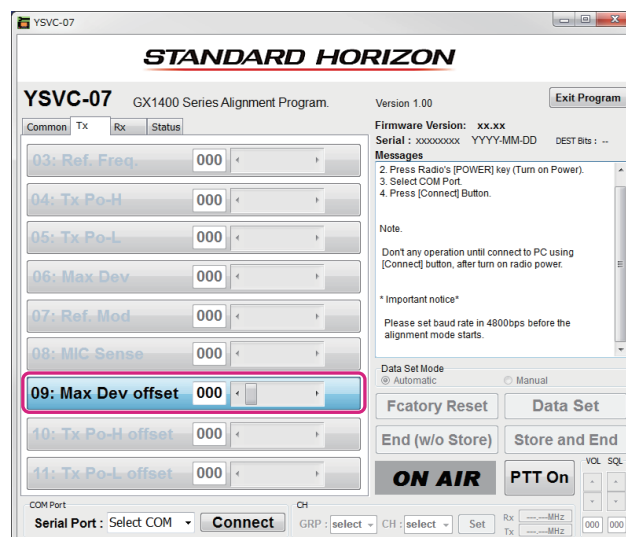
## 08: Mic Sense

1. Reduce the DC power supply voltage to 13.8 V.
2. Click the **[08: Mic Sense]** button. The transceiver now is in the Mic Sensitivity Alignment Mode.
3. Set the AF Generator output to 8 mV rms @ 1 kHz tone.
4. Click the **[PTT On]** button.
5. Click the **[◀] / [▶]** button (or Move the Slide Bar), if necessary, until the deviation to 3.0 kHz  $\pm$ 0.1 kHz.
6. Click the **[PTT Off]** button.
7. Click the **[08: Mic Sense]** button to exit the Mic Sensitivity Alignment Mode.



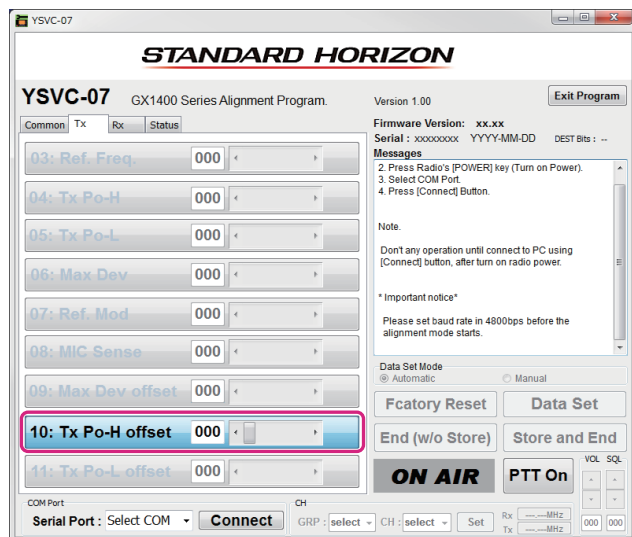
## 09: Max Dev offset

1. Reduce the DC power supply voltage to 13.8 V.
2. Click the **[09: Max Dev offset]** button. The transceiver now is in the Maximum Deviation Offset Alignment Mode.
3. Click the **[◀] / [▶]** button (or Move the Slide Bar) to set the parameter is "233".
4. Click the **[09: Max Dev offset]** button to exit the Maximum Deviation offset Alignment Mode.



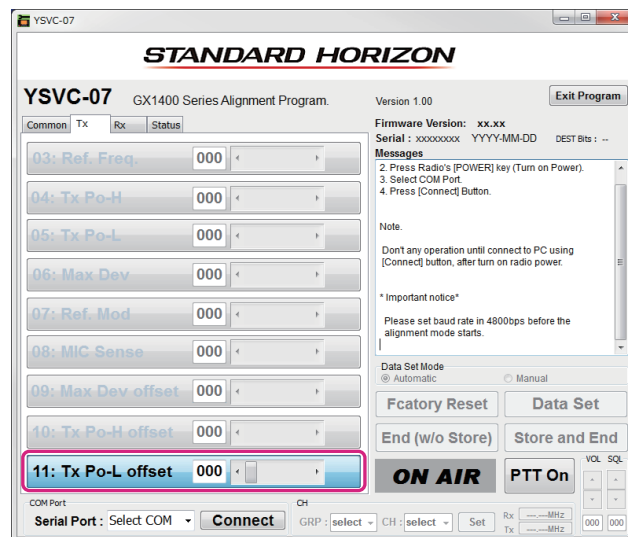
## 10: TX Po-H offset

1. Reduce the DC power supply voltage to 13.8 V.
2. Click the [10: TX Po-H offset] button. The transceiver now is in the Transmitter Maximum Output Power Offset Alignment Mode.
3. Click the [◀] / [▶] button (or Move the Slide Bar) to set the parameter is "128".
4. Click the [10: TX Po-H offset] button to exit the Transmitter Maximum Output Power Offset Alignment Mode.



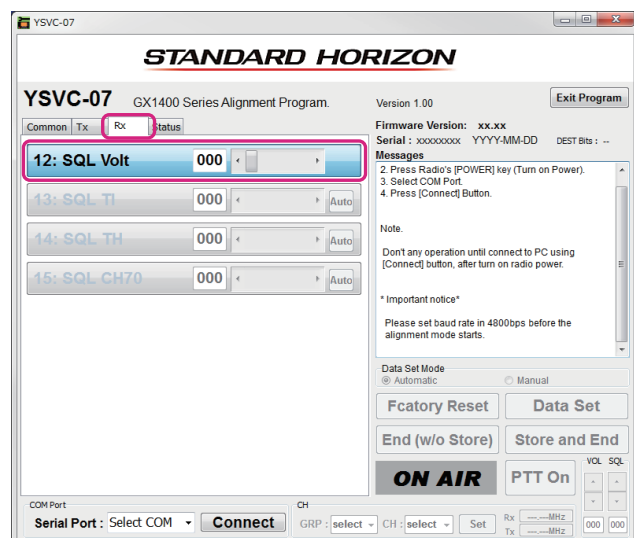
## 11: TX Po-L offset

1. Reduce the DC power supply voltage to 13.8 V.
2. Click the [11: TX Po-L offset] button. The transceiver now is in the Transmitter Minimum Output Power Offset Alignment Mode.
3. Click the [◀] / [▶] button (or Move the Slide Bar) to set the parameter is "128".
4. Click the [11: TX Po-L offset] button to exit the Transmitter Minimum Output Power Offset Alignment Mode.



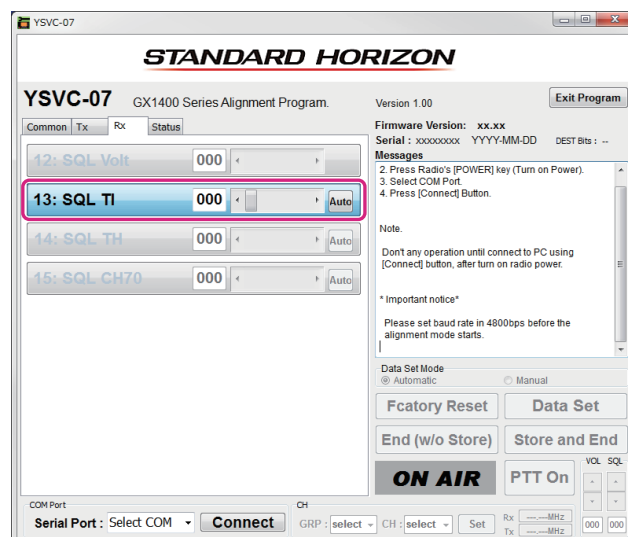
## 12: SQL Volt

1. Click the [Rx] tab.
2. Click the [12: SQL Volt] button. The transceiver now is in the Squelch Volt Alignment Mode.
3. Click the [◀] / [▶] button (or Move the Slide Bar) to set the parameter is "025".
4. Click the [12: SQL Volt] button to exit the Squelch Volt Alignment Mode.



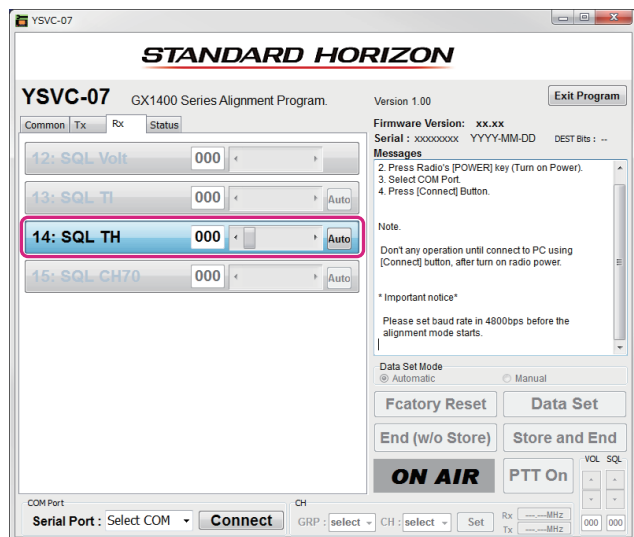
## 13: SQL TI

1. Set the RF Signal Generator output to channel frequency, at a level of +2.0 dBμVemf with ±1 kHz tone / 3.0 kHz deviation.
2. Click the [13: SQL TI] button. The transceiver now is in the Squelch Tight Alignment Mode.
3. Press the [Auto] button to read the Squelch Tight data.
4. Click the [13: SQL TI] button to exit the Squelch Tight Alignment Mode.



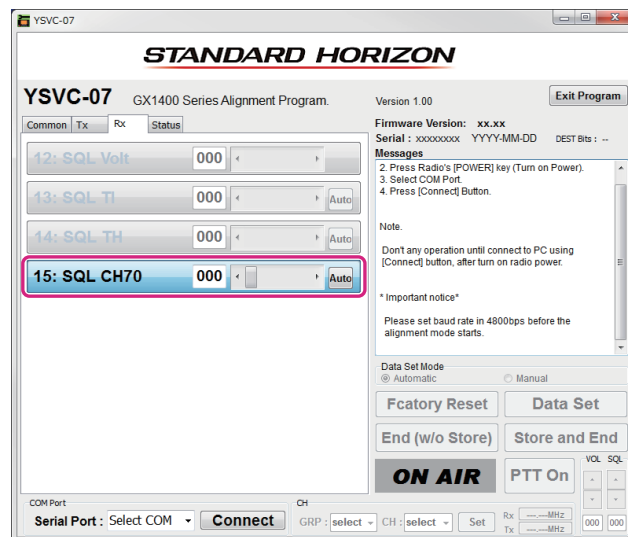
## 14: SQL TH

1. Set the RF Signal Generator output to channel frequency, at a level of -6.0 dBμVemf with ±1 kHz tone / 3.0 kHz deviation.
2. Click the **[14: SQL TH]** button. The transceiver now is in the Squelch Threshold Alignment Mode.
3. Press the **[Auto]** button to read the Squelch Threshold data.
4. Click the **[14: SQL TH]** button to exit the Squelch Threshold Alignment Mode.



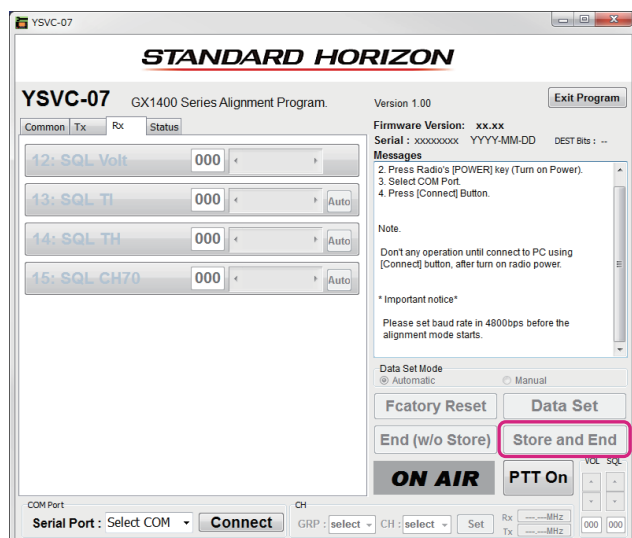
## 15: SQL CH70

1. Set the RF Signal Generator output to 156.525 MHz, at a level of -5.0 dBμVemf with ±1 kHz tone / 3.0 kHz deviation.
2. Click the **[15: SQL CH70]** button. The transceiver now is in the Squelch CH70 Alignment Mode.
3. Press the **[Auto]** button to read the Squelch CH70 data.
4. Click the **[15: SQL CH70]** button to exit the Squelch CH70 Alignment Mode.

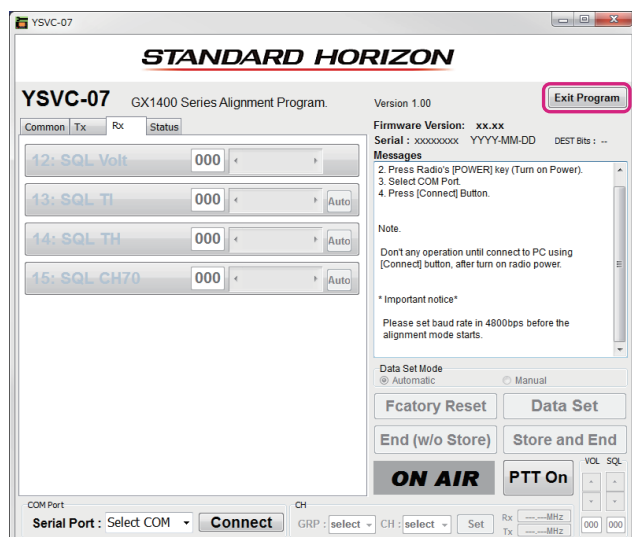


## Exit from the Alignment Mode

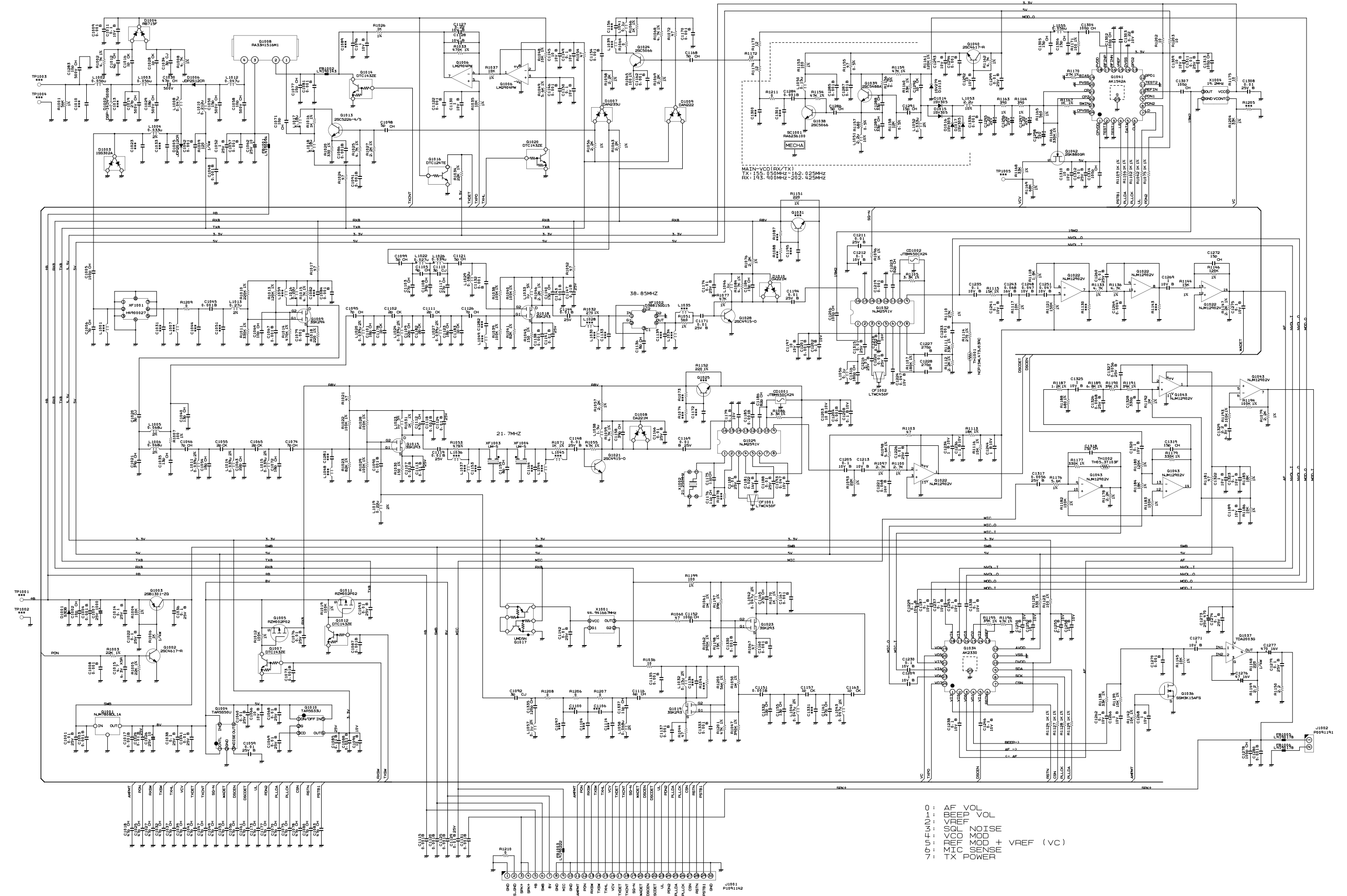
1. Click the **[Store and End]** button to save the new setting(s) and turn off the transceiver.

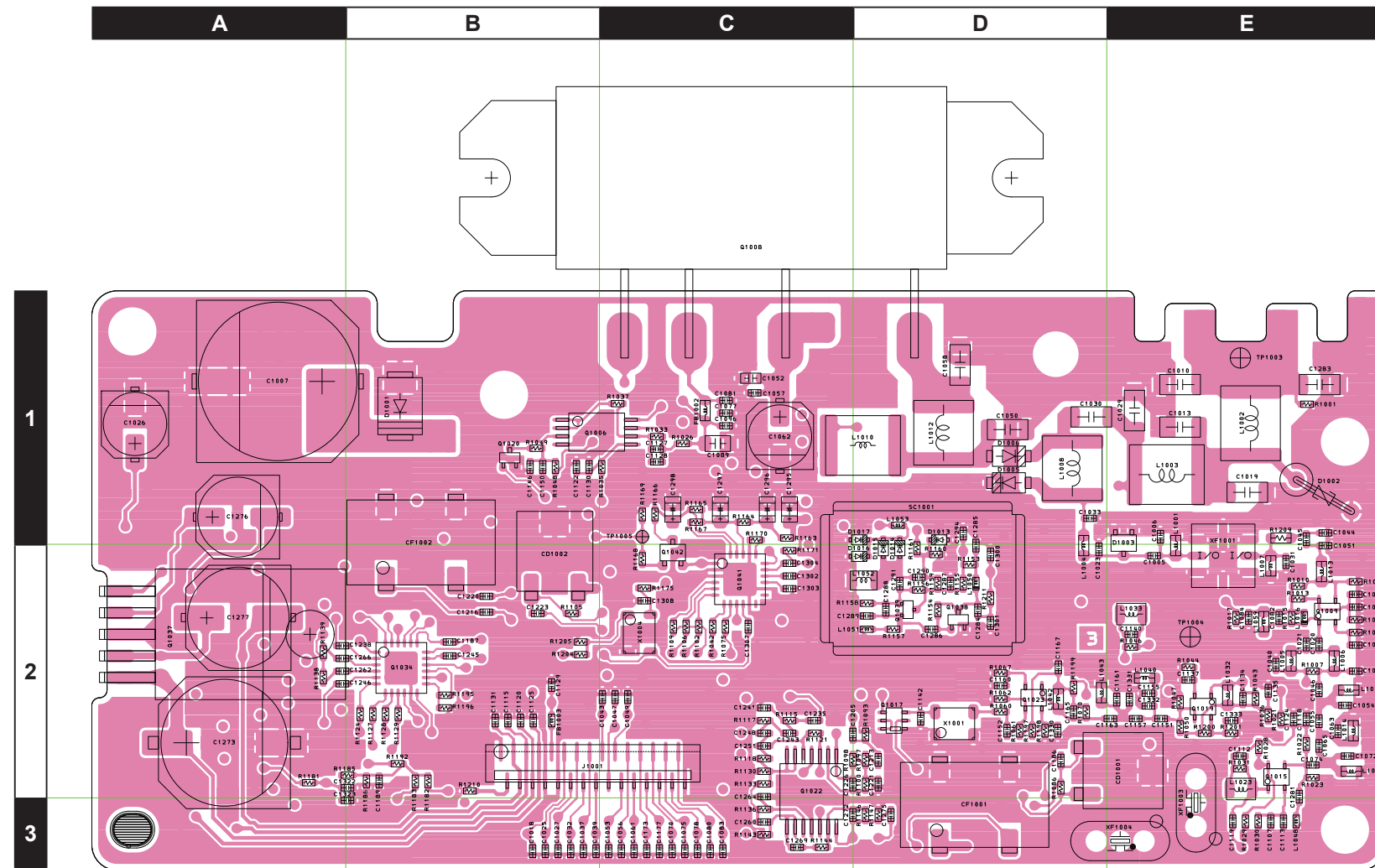


2. Click the **[Exit Program]** button to close the YSCV-07 Alignment Program.

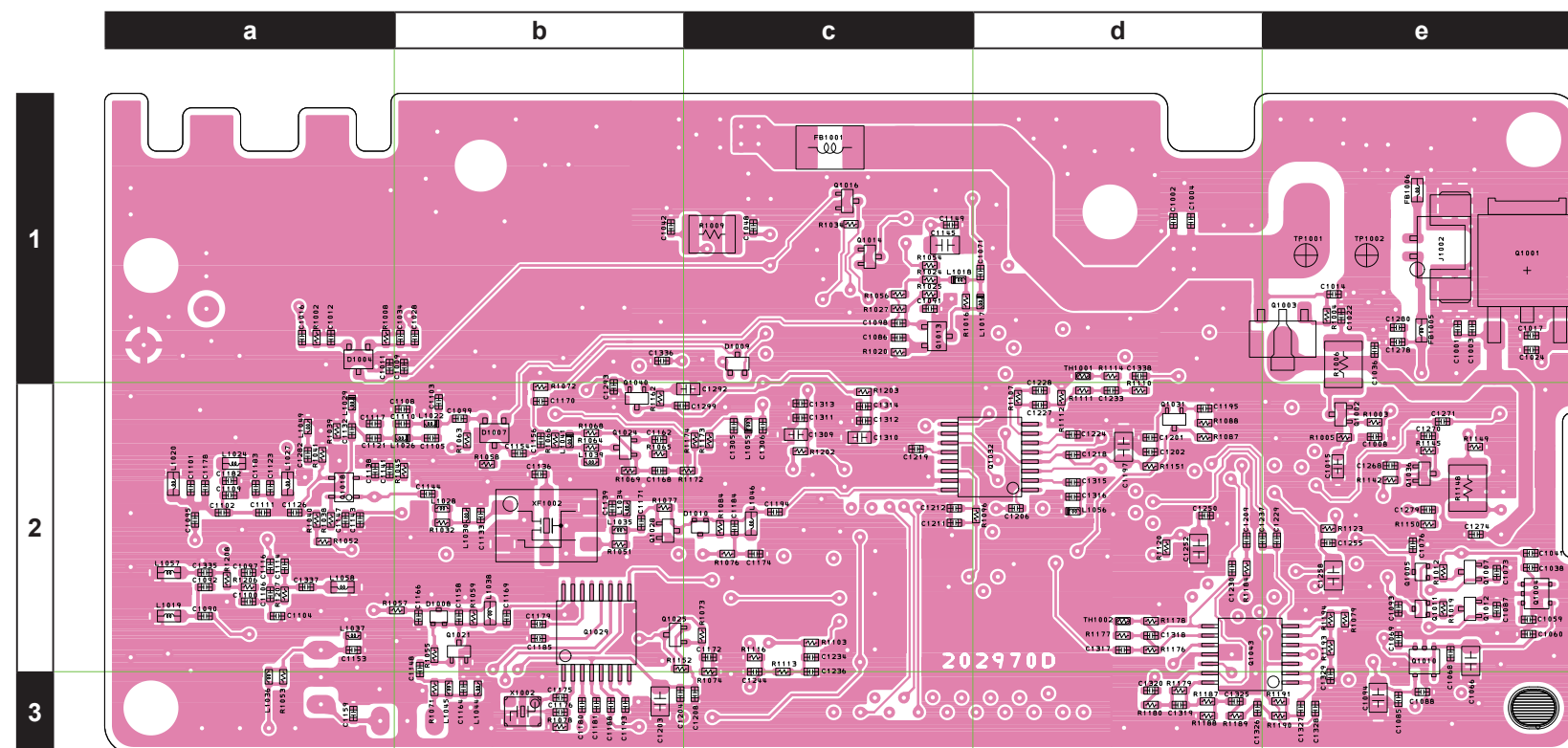


MAIN Unit  
Circuit Diagram





Side A



Side B

| REF                                                           | DESCRIPTION     | VALUE   | V/W  | TOL. | MFR'S DESIG        | YAESU P/N | VERS. | LOT | SIDE | LAY ADR |
|---------------------------------------------------------------|-----------------|---------|------|------|--------------------|-----------|-------|-----|------|---------|
| PCB with Components is included MAIN ASSY (see Exploded View) |                 |         |      |      |                    |           |       |     |      |         |
| C 1001                                                        | CHIP CAP.       | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | e1      |
| C 1002                                                        | CHIP CAP.       | 10pF    | 50V  | CH   | GRM1552C1H100JA01D | K22178212 |       | 1-  | B    | d1      |
| C 1003                                                        | CHIP CAP.       | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | e1      |
| C 1004                                                        | CHIP CAP.       | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | d1      |
| C 1005                                                        | CHIP CAP.       | 100pF   | 50V  | CH   | GRM1552C1H101JA01D | K22178236 |       | 1-  | A    | E2      |
| C 1006                                                        | CHIP CAP.       | 7pF     | 50V  | CH   | GRM1552C1H7R0DA01D | K22178209 |       | 1-  | A    | E1      |
| C 1007                                                        | AL.ELECTRO.CAP. | 1000uF  | 25V  |      | 25CE1000BS         | K48140025 |       | 1-  | A    | A1      |
| C 1008                                                        | CHIP CAP.       | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | e2      |
| C 1009                                                        | CHIP CAP.       | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | b1      |
| C 1011                                                        | CHIP CAP.       | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | a1      |
| C 1012                                                        | CHIP CAP.       | 4pF     | 50V  | CH   | GRM1552C1H4R0CA01D | K22178206 |       | 1-  | B    | a1      |
| C 1014                                                        | CHIP CAP.       | 0.1uF   | 25V  | B    | GRM155B31E104KA87D | K22148838 |       | 1-  | B    | e1      |
| C 1015                                                        | CHIP CAP.       | 4.7uF   | 6.3V | X5R  | GRM188R60J475KE19D | K22084808 |       | 1-  | B    | e2      |
| C 1016                                                        | CHIP CAP.       | 1pF     | 50V  | CK   | GRM1554C1H1R0CA01D | K22178202 |       | 1-  | B    | a1      |
| C 1017                                                        | CHIP CAP.       | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | e1      |
| C 1018                                                        | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | B3      |
| C 1019                                                        | CHIP CAP.       | 27pF    | 500V | CH   | 1206N270J501LT     | K22278214 |       | 1-  | A    | E1      |
| C 1020                                                        | CHIP CAP.       | 3pF     | 50V  | CJ   | GRM1553C1H3R0CA01D | K22178205 |       | 1-  | A    | E2      |
| C 1021                                                        | CHIP CAP.       | 39pF    | 50V  | CH   | GRM1552C1H390JA01D | K22178226 |       | 1-  | A    | E2      |
| C 1022                                                        | CHIP CAP.       | 0.1uF   | 25V  | B    | GRM155B31E104KA87D | K22148838 |       | 1-  | B    | e1      |
| C 1024                                                        | CHIP CAP.       | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | e1      |
| C 1025                                                        | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | B3      |
| C 1026                                                        | AL.ELECTRO.CAP. | 10uF    | 25V  |      | UWX1E100MCL1GB     | K48140022 |       | 1-  | A    | A1      |
| C 1027                                                        | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | B3      |
| C 1028                                                        | CHIP CAP.       | 1pF     | 50V  | CK   | GRM1554C1H1R0CA01D | K22178202 |       | 1-  | B    | b1      |
| C 1029                                                        | CHIP CAP.       | 18pF    | 500V | CH   | 1206N180J501LT     | K22278212 |       | 1-  | A    | E1      |
| C 1030                                                        | CHIP CAP.       | 47pF    | 500V | CH   | 1206N470J501LT     | K22278217 |       | 1-  | A    | D1      |
| C 1032                                                        | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | B3      |
| C 1034                                                        | CHIP CAP.       | 3pF     | 50V  | CJ   | GRM1553C1H3R0CA01D | K22178205 |       | 1-  | B    | b1      |
| C 1035                                                        | CHIP CAP.       | 13pF    | 50V  | CH   | GRM1552C1H130JZ01D | K22178215 |       | 1-  | A    | E2      |
| C 1036                                                        | CHIP CAP.       | 0.1uF   | 25V  | B    | GRM155B31E104KA87D | K22148838 |       | 1-  | B    | e1      |
| C 1037                                                        | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | B3      |
| C 1038                                                        | CHIP CAP.       | 0.1uF   | 25V  | B    | GRM155B31E104KA87D | K22148838 |       | 1-  | B    | e2      |
| C 1039                                                        | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | B3      |
| C 1040                                                        | CHIP CAP.       | 13pF    | 50V  | CH   | GRM1552C1H130JZ01D | K22178215 |       | 1-  | A    | E2      |
| C 1041                                                        | CHIP CAP.       | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | e2      |
| C 1042                                                        | CHIP CAP.       | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | b1      |
| C 1043                                                        | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | C2      |
| C 1045                                                        | CHIP CAP.       | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E1      |
| C 1046                                                        | CHIP CAP.       | 7pF     | 50V  | CH   | GRM1552C1H7R0DA01D | K22178209 |       | 1-  | A    | E2      |
| C 1047                                                        | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | C2      |
| C 1048                                                        | CHIP CAP.       | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | c1      |
| C 1049                                                        | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | C2      |
| C 1050                                                        | CHIP CAP.       | 15pF    | 500V | CH   | 1206N150J501LT     | K22278211 |       | 1-  | A    | D1      |
| C 1052                                                        | CHIP CAP.       | 1uF     | 25V  | B    | GRM188B31E105KA75D | K22144815 |       | 1-  | A    | C1      |
| C 1053                                                        | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | C3      |
| C 1054                                                        | CHIP CAP.       | 18pF    | 50V  | CH   | GRM1552C1H180GA01D | K22179701 |       | 1-  | A    | E2      |
| C 1055                                                        | CHIP CAP.       | 2pF     | 50V  | CK   | GRM1554C1H2R0CA01D | K22178204 |       | 1-  | A    | E2      |
| C 1056                                                        | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | C3      |
| C 1057                                                        | CHIP CAP.       | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | C1      |
| C 1058                                                        | CHIP CAP.       | 10pF    | 500V | CH   | 1206N100J501LT     | K22278209 |       | 1   | A    | D1      |
| C 1059                                                        | CHIP CAP.       | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | e2      |
| C 1060                                                        | CHIP CAP.       | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | e2      |
| C 1061                                                        | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | C3      |
| C 1062                                                        | AL.ELECTRO.CAP. | 10uF    | 25V  |      | UWX1E100MCL1GB     | K48140022 |       | 1-  | A    | C1      |
| C 1063                                                        | CHIP CAP.       | 22pF    | 50V  | CH   | GRM1552C1H220GA01D | K22179707 |       | 1-  | A    | E2      |
| C 1064                                                        | CHIP CAP.       | 10pF    | 50V  | CH   | GRM1552C1H100JA01D | K22178212 |       | 1-  | A    | E2      |
| C 1065                                                        | CHIP CAP.       | 2pF     | 50V  | CK   | GRM1554C1H2R0CA01D | K22178204 |       | 1-  | A    | E2      |
| C 1066                                                        | CHIP CAP.       | 10uF    | 10V  | B    | GRM21BB31A106KE18L | K22100808 |       | 1-  | B    | e2      |
| C 1067                                                        | CHIP CAP.       | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E2      |
| C 1068                                                        | CHIP CAP.       | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | e2      |
| C 1069                                                        | CHIP CAP.       | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | e2      |
| C 1070                                                        | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | C3      |
| C 1071                                                        | CHIP CAP.       | 10pF    | 50V  | CH   | GRM1552C1H100JA01D | K22178212 |       | 1-  | B    | d1      |
| C 1072                                                        | CHIP CAP.       | 18pF    | 50V  | CH   | GRM1552C1H180GA01D | K22179701 |       | 1-  | A    | E2      |
| C 1073                                                        | CHIP CAP.       | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | e2      |
| C 1074                                                        | CHIP CAP.       | 7pF     | 50V  | CH   | GRM1552C1H7R0DA01D | K22178209 |       | 1-  | A    | E2      |
| C 1075                                                        | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | C3      |
| C 1076                                                        | CHIP CAP.       | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | e2      |
| C 1077                                                        | CHIP CAP.       | 10pF    | 50V  | CH   | GRM1552C1H100JA01D | K22178212 |       | 1-  | A    | C1      |
| C 1078                                                        | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | C3      |
| C 1079                                                        | CHIP CAP.       | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E2      |
| C 1080                                                        | CHIP CAP.       | 47pF    | 50V  | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | C3      |
| C 1081                                                        | CHIP CAP.       | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | C1      |

| REF    | DESCRIPTION | VALUE   | V/W | TOL. | MFR'S DESIG        | YAESU P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-------------|---------|-----|------|--------------------|-----------|-------|-----|------|---------|
| C 1083 | CHIP CAP.   | 47pF    | 50V | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | C3      |
| C 1084 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E2      |
| C 1085 | CHIP CAP.   | 0.01uF  | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | e3      |
| C 1086 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | c1      |
| C 1087 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | e2      |
| C 1088 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | e3      |
| C 1090 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | a2      |
| C 1091 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | c1      |
| C 1092 | CHIP CAP.   | 3pF     | 50V | CJ   | GRM1553C1H3R0CA01D | K22178205 |       | 1-  | B    | a2      |
| C 1093 | CHIP CAP.   | 0.01uF  | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | e2      |
| C 1094 | CHIP CAP.   | 10uF    | 10V | B    | GRM21BB31A106KE18L | K22100808 |       | 1-  | B    | e3      |
| C 1095 | CHIP CAP.   | 7pF     | 50V | CH   | GRM1552C1H7R0DA01D | K22178209 |       | 1-  | B    | a2      |
| C 1096 | CHIP CAP.   | 1uF     | 10V | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | A    | C1      |
| C 1098 | CHIP CAP.   | 5pF     | 50V | CH   | GRM1552C1H5R0CA01D | K22178207 |       | 1-  | B    | c1      |
| C 1099 | CHIP CAP.   | 5pF     | 50V | CH   | GRM1552C1H5R0CA01D | K22178207 |       | 1-  | B    | b2      |
| C 1101 | CHIP CAP.   | 18pF    | 50V | CH   | GRM1552C1H180JA01D | K22178218 |       | 1-  | B    | a2      |
| C 1102 | CHIP CAP.   | 2pF     | 50V | CK   | GRM1554C1H2R0CA01D | K22178204 |       | 1-  | B    | a2      |
| C 1103 | CHIP CAP.   | 27pF    | 50V | CH   | GRM1552C1H270JA01D | K22178222 |       | 1-  | B    | b2      |
| C 1105 | CHIP CAP.   | 9pF     | 50V | CH   | GRM1552C1H9R0DA01D | K22178211 |       | 1-  | B    | b2      |
| C 1107 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E3      |
| C 1108 | CHIP CAP.   | 39pF    | 50V | CH   | GRM1552C1H390JA01D | K22178226 |       | 1-  | B    | b2      |
| C 1109 | CHIP CAP.   | 22pF    | 50V | CH   | GRM1552C1H220JA01D | K22178220 |       | 1-  | B    | a2      |
| C 1110 | CHIP CAP.   | 3pF     | 50V | CJ   | GRM1553C1H3R0CA01D | K22178205 |       | 1-  | B    | b2      |
| C 1111 | CHIP CAP.   | 2pF     | 50V | CK   | GRM1554C1H2R0CA01D | K22178204 |       | 1-  | B    | a2      |
| C 1112 | CHIP CAP.   | 47pF    | 50V | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | E2      |
| C 1113 | CHIP CAP.   | 0.01uF  | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | A    | E3      |
| C 1115 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | B2      |
| C 1116 | CHIP CAP.   | 6pF     | 50V | CH   | GRM1552C1H6R0DA01D | K22178208 |       | 1-  | B    | a2      |
| C 1117 | CHIP CAP.   | 27pF    | 50V | CH   | GRM1552C1H270JA01D | K22178222 |       | 1-  | B    | a2      |
| C 1118 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E2      |
| C 1119 | CHIP CAP.   | 0.01uF  | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | A    | E3      |
| C 1120 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | B2      |
| C 1121 | CHIP CAP.   | 5pF     | 50V | CH   | GRM1552C1H5R0CA01D | K22178207 |       | 1-  | B    | a2      |
| C 1122 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | B1      |
| C 1123 | CHIP CAP.   | 18pF    | 50V | CH   | GRM1552C1H180JA01D | K22178218 |       | 1-  | B    | a2      |
| C 1124 | CHIP CAP.   | 0.01uF  | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | A    | E2      |
| C 1125 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | B2      |
| C 1126 | CHIP CAP.   | 7pF     | 50V | CH   | GRM1552C1H7R0DA01D | K22178209 |       | 1-  | B    | a2      |
| C 1127 | CHIP CAP.   | 0.22uF  | 10V | B    | GRM155B31A224KE18D | K22108808 |       | 1-  | A    | C1      |
| C 1128 | CHIP CAP.   | 1uF     | 10V | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | A    | C1      |
| C 1129 | CHIP CAP.   | 0.01uF  | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | A    | B2      |
| C 1130 | CHIP CAP.   | 1uF     | 10V | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | A    | B1      |
| C 1131 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | B2      |
| C 1132 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | a2      |
| C 1135 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E2      |
| C 1136 | CHIP CAP.   | 8pF     | 50V | CH   | GRM1552C1H8R0DA01D | K22178210 |       | 1-  | B    | b2      |
| C 1137 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E2      |
| C 1138 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | a2      |
| C 1140 | CHIP CAP.   | 15pF    | 50V | CH   | GRM1552C1H150JA01D | K22178216 |       | 1-  | A    | E2      |
| C 1141 | CHIP CAP.   | 0.01uF  | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | a2      |
| C 1142 | CHIP CAP.   | 0.01uF  | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | A    | D2      |
| C 1143 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | a2      |
| C 1144 | CHIP CAP.   | 0.01uF  | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | b2      |
| C 1145 | CHIP CAP.   | 10uF    | 10V | B    | GRM21BB31A106KE18L | K22100808 |       | 1-  | B    | c1      |
| C 1146 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | B1      |
| C 1147 | CHIP CAP.   | 0.01uF  | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | a2      |
| C 1148 | CHIP CAP.   | 0.01uF  | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | b2      |
| C 1149 | CHIP CAP.   | 0.1uF   | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | c1      |
| C 1150 | CHIP CAP.   | 0.1uF   | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | A    | B1      |
| C 1151 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E2      |
| C 1152 | CHIP CAP.   | 100pF   | 50V | CH   | GRM1552C1H101JA01D | K22178236 |       | 1-  | A    | D2      |
| C 1154 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | b2      |
| C 1155 | CHIP CAP.   | 13pF    | 50V | CH   | GRM1552C1H130JZ01D | K22178215 |       | 1-  | A    | E2      |
| C 1157 | CHIP CAP.   | 1pF     | 50V | CK   | GRM1554C1H1R0CA01D | K22178202 |       | 1-  | A    | E2      |
| C 1158 | CHIP CAP.   | 39pF    | 50V | CH   | GRM1552C1H390JA01D | K22178226 |       | 1-  | B    | b2      |
| C 1159 | CHIP CAP.   | 8pF     | 50V | CH   | GRM1552C1H8R0DA01D | K22178210 |       | 1-  | B    | a3      |
| C 1160 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | D2      |
| C 1161 | CHIP CAP.   | 27pF    | 50V | CH   | GRM1552C1H270JA01D | K22178222 |       | 1-  | A    | E2      |
| C 1162 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | b2      |
| C 1163 | CHIP CAP.   | 1pF     | 50V | CK   | GRM1554C1H1R0CA01D | K22178202 |       | 1-  | A    | E2      |
| C 1165 | CHIP CAP.   | 27pF    | 50V | CH   | GRM1552C1H270JA01D | K22178222 |       | 1-  | A    | D2      |
| C 1166 | CHIP CAP.   | 0.01uF  | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | b2      |
| C 1167 | CHIP CAP.   | 0.001uF | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | D2      |
| C 1168 | CHIP CAP.   | 5pF     | 50V | CH   | GRM1552C1H5R0CA01D | K22178207 |       | 1-  | B    | b2      |
| C 1169 | CHIP CAP.   | 0.01uF  | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | b2      |

| REF    | DESCRIPTION     | VALUE    | V/W | TOL. | MFR'S DESIG        | YAESU P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-----------------|----------|-----|------|--------------------|-----------|-------|-----|------|---------|
| C 1170 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | b2      |
| C 1171 | CHIP CAP.       | 0.01uF   | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | b2      |
| C 1173 | CHIP CAP.       | 47pF     | 50V | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | C3      |
| C 1174 | CHIP CAP.       | 0.01uF   | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | c2      |
| C 1175 | CHIP CAP.       | 11pF     | 50V | CH   | GRM1552C1H110JA01D | K22178213 |       | 1-  | B    | b3      |
| C 1176 | CHIP CAP.       | 11pF     | 50V | CH   | GRM1552C1H110JA01D | K22178213 |       | 1-  | B    | b3      |
| C 1177 | CHIP CAP.       | 47pF     | 50V | CH   | GRM1552C1H470JA01D | K22178228 |       | 1-  | A    | C3      |
| C 1178 | CHIP CAP.       | 1pF      | 50V | CK   | GRM1554C1H1R0CA01D | K22178202 |       | 1-  | B    | a2      |
| C 1179 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | b2      |
| C 1180 | CHIP CAP.       | 0.01uF   | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | b3      |
| C 1181 | CHIP CAP.       | 0.022uF  | 16V | B    | GRM155B11C223KA01D | K22128806 |       | 1-  | B    | b3      |
| C 1182 | CHIP CAP.       | 2pF      | 50V | CK   | GRM1554C1H2R0CA01D | K22178204 |       | 1-  | B    | a2      |
| C 1183 | CHIP CAP.       | 1pF      | 50V | CK   | GRM1554C1H1R0CA01D | K22178202 |       | 1-  | B    | a2      |
| C 1184 | CHIP CAP.       | 15pF     | 50V | CH   | GRM1552C1H150JA01D | K22178216 |       | 1-  | B    | c2      |
| C 1185 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | b2      |
| C 1186 | CHIP CAP.       | 82pF     | 50V | CH   | GRM1552C1H820JA01D | K22178234 |       | 1-  | A    | D2      |
| C 1187 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | A    | B2      |
| C 1188 | CHIP CAP.       | 0.01uF   | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | b3      |
| C 1189 | CHIP CAP.       | 1uF      | 10V | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | A    | B2      |
| C 1193 | CHIP CAP.       | 0.047uF  | 10V | B    | GRM155B11A473KA01D | K22108801 |       | 1-  | B    | b3      |
| C 1194 | CHIP CAP.       | 0.01uF   | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | c2      |
| C 1197 | CHIP CAP.       | 10uF     | 10V | B    | GRM21BB31A106KE18L | K22100808 |       | 1-  | B    | d2      |
| C 1201 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | d2      |
| C 1202 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | d2      |
| C 1203 | CHIP CAP.       | 10uF     | 10V | B    | GRM21BB31A106KE18L | K22100808 |       | 1-  | B    | b3      |
| C 1204 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | b3      |
| C 1205 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | A    | D2      |
| C 1206 | CHIP CAP.       | 100pF    | 50V | CH   | GRM1552C1H101JA01D | K22178236 |       | 1-  | B    | d2      |
| C 1208 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | c3      |
| C 1209 | CHIP CAP.       | 1uF      | 10V | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | B    | d2      |
| C 1211 | CHIP CAP.       | 0.01uF   | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | c2      |
| C 1212 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | c2      |
| C 1213 | CHIP CAP.       | 1uF      | 10V | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | A    | D2      |
| C 1216 | CHIP CAP.       | 0.01uF   | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | A    | B2      |
| C 1218 | CHIP CAP.       | 0.022uF  | 16V | B    | GRM155B11C223KA01D | K22128806 |       | 1-  | B    | d2      |
| C 1219 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | c2      |
| C 1220 | CHIP CAP.       | 0.01uF   | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | A    | B2      |
| C 1221 | CHIP CAP.       | 0.068uF  | 16V | B    | GRM155B31C683KA87D | K22128815 |       | 1-  | A    | D2      |
| C 1223 | CHIP CAP.       | 82pF     | 50V | CH   | GRM1552C1H820JA01D | K22178234 |       | 1-  | A    | B2      |
| C 1224 | CHIP CAP.       | 0.047uF  | 10V | B    | GRM155B11A473KA01D | K22108801 |       | 1-  | B    | d2      |
| C 1226 | CHIP CAP.       | 0.01uF   | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | A    | D2      |
| C 1227 | CHIP CAP.       | 270pF    | 50V | B    | GRM155B11B271KD01D | K22178802 |       | 1-  | B    | d2      |
| C 1228 | CHIP CAP.       | 270pF    | 50V | B    | GRM155B11B271KD01D | K22178802 |       | 1-  | B    | d2      |
| C 1229 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | e2      |
| C 1230 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | d2      |
| C 1233 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | d2      |
| C 1234 | CHIP CAP.       | 1uF      | 10V | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | B    | c2      |
| C 1235 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | A    | C2      |
| C 1236 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | c3      |
| C 1237 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | e2      |
| C 1238 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | A    | A2      |
| C 1241 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | A    | C2      |
| C 1243 | CHIP CAP.       | 0.068uF  | 16V | B    | GRM155B31C683KA87D | K22128815 |       | 1-  | A    | C2      |
| C 1244 | CHIP CAP.       | 1uF      | 10V | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | B    | c3      |
| C 1245 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | A    | B2      |
| C 1246 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | A    | A2      |
| C 1248 | CHIP CAP.       | 0.047uF  | 10V | B    | GRM155B11A473KA01D | K22108801 |       | 1-  | A    | C2      |
| C 1250 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | d2      |
| C 1251 | CHIP CAP.       | 0.047uF  | 10V | B    | GRM155B11A473KA01D | K22108801 |       | 1-  | A    | C2      |
| C 1252 | CHIP CAP.       | 10uF     | 10V | B    | GRM21BB31A106KE18L | K22100808 |       | 1-  | B    | d2      |
| C 1255 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | e2      |
| C 1258 | CHIP CAP.       | 10uF     | 10V | B    | GRM21BB31A106KE18L | K22100808 |       | 1-  | B    | e2      |
| C 1260 | CHIP CAP.       | 0.01uF   | 25V | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | A    | C3      |
| C 1262 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | A    | A2      |
| C 1264 | CHIP CAP.       | 0.0047uF | 50V | B    | GRM155B11H472KA01D | K22178838 |       | 1-  | A    | C2      |
| C 1266 | CHIP CAP.       | 1uF      | 10V | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | A    | A2      |
| C 1268 | CHIP CAP.       | 1uF      | 10V | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | B    | e2      |
| C 1269 | CHIP CAP.       | 1uF      | 10V | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | A    | C3      |
| C 1270 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | e2      |
| C 1271 | CHIP CAP.       | 1uF      | 10V | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | B    | e2      |
| C 1272 | CHIP CAP.       | 15pF     | 50V | CH   | GRM1552C1H150JA01D | K22178216 |       | 1-  | A    | D3      |
| C 1273 | AL.ELECTRO.CAP. | 470uF    | 25V |      | EMVE250ADA471MJA0G | K48140026 |       | 1-  | A    | A2      |
| C 1274 | CHIP CAP.       | 0.1uF    | 25V | B    | GRM155B31E104KA87D | K22148838 |       | 1-  | B    | e2      |
| C 1275 | CHIP CAP.       | 0.1uF    | 10V | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | A    | D3      |
| C 1276 | AL.ELECTRO.CAP. | 47uF     | 16V |      | EEE1CA470SP        | K48120005 |       | 1-  | A    | A1      |

| REF    | DESCRIPTION     | VALUE    | V/W  | TOL. | MFR'S DESIG        | YAESU P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-----------------|----------|------|------|--------------------|-----------|-------|-----|------|---------|
| C 1277 | AL.ELECTRO.CAP. | 470uF    | 16V  |      | 16CE470BS          | K48120035 |       | 1-  | A    | A2      |
| C 1278 | CHIP CAP.       | 100pF    | 50V  | CH   | GRM1552C1H101JA01D | K22178236 |       | 1-  | B    | e1      |
| C 1279 | CHIP CAP.       | 0.1uF    | 25V  | B    | GRM155B31E104KA87D | K22148838 |       | 1-  | B    | e2      |
| C 1280 | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | e1      |
| C 1283 | CHIP CAP.       | 10pF     | 500V | CH   | 1206N100J501LT     | K22278209 |       | 1-  | A    | E1      |
| C 1284 | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | D2      |
| C 1285 | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | D2      |
| C 1286 | CHIP CAP.       | 5pF      | 50V  | CH   | GRM1552C1H5R0CA01D | K22178207 |       | 1-  | A    | D2      |
| C 1287 | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | D2      |
| C 1288 | CHIP CAP.       | 33pF     | 50V  | CH   | GRM1552C1H330JA01D | K22178224 |       | 1-  | A    | D2      |
| C 1289 | CHIP CAP.       | 33pF     | 50V  | CH   | GRM1552C1H330JA01D | K22178224 |       | 1-  | A    | D2      |
| C 1290 | CHIP CAP.       | 1pF      | 50V  | CK   | GRM1554C1H1R0CA01D | K22178202 |       | 1-  | A    | D2      |
| C 1291 | CHIP CAP.       | 15pF     | 50V  | CH   | GRM1552C1H150JA01D | K22178216 |       | 1-  | A    | D2      |
| C 1292 | CHIP CAP.       | 10uF     | 10V  | B    | GRM188B31A106ME69D | K22104810 |       | 1-  | B    | c2      |
| C 1293 | CHIP CAP.       | 1uF      | 10V  | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | B    | b2      |
| C 1294 | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | D1      |
| C 1295 | CHIP TA.CAP.    | 0.22uF   | 20V  |      | TMCP1D224MTRF      | K78130069 |       | 1-  | A    | C1      |
| C 1296 | CHIP TA.CAP.    | 0.22uF   | 20V  |      | TMCP1D224MTRF      | K78130069 |       | 1-  | A    | C1      |
| C 1297 | CHIP TA.CAP.    | 0.22uF   | 20V  |      | TMCP1D224MTRF      | K78130069 |       | 1-  | A    | C1      |
| C 1298 | CHIP TA.CAP.    | 3.3uF    | 10V  |      | F921A335MPA        | K78100087 |       | 1-  | A    | C1      |
| C 1299 | CHIP CAP.       | 0.01uF   | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | b2      |
| C 1302 | CHIP CAP.       | 100pF    | 50V  | CH   | GRM1552C1H101JA01D | K22178236 |       | 1-  | A    | C2      |
| C 1303 | CHIP CAP.       | 0.22uF   | 10V  | B    | GRM155B31A224KE18D | K22108808 |       | 1-  | A    | C2      |
| C 1304 | CHIP CAP.       | 100pF    | 50V  | CH   | GRM1552C1H101JA01D | K22178236 |       | 1-  | A    | C2      |
| C 1305 | CHIP CAP.       | 15pF     | 50V  | CH   | GRM1552C1H150JA01D | K22178216 |       | 1-  | B    | c2      |
| C 1306 | CHIP CAP.       | 15pF     | 50V  | CH   | GRM1552C1H150JA01D | K22178216 |       | 1-  | B    | c2      |
| C 1307 | CHIP CAP.       | 100pF    | 50V  | CH   | GRM1552C1H101JA01D | K22178236 |       | 1-  | A    | C2      |
| C 1308 | CHIP CAP.       | 0.01uF   | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | A    | C2      |
| C 1309 | CHIP CAP.       | 10uF     | 10V  | B    | GRM188B31A106ME69D | K22104810 |       | 1-  | B    | c2      |
| C 1310 | CHIP CAP.       | 10uF     | 10V  | B    | GRM188B31A106ME69D | K22104810 |       | 1-  | B    | c2      |
| C 1311 | CHIP CAP.       | 0.01uF   | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | c2      |
| C 1312 | CHIP CAP.       | 0.01uF   | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | c2      |
| C 1313 | CHIP CAP.       | 100pF    | 50V  | CH   | GRM1552C1H101JA01D | K22178236 |       | 1-  | B    | c2      |
| C 1314 | CHIP CAP.       | 100pF    | 50V  | CH   | GRM1552C1H101JA01D | K22178236 |       | 1-  | B    | c2      |
| C 1315 | CHIP CAP.       | 0.01uF   | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | d2      |
| C 1316 | CHIP CAP.       | 180pF    | 50V  | CH   | GRM1552C1H181JA01D | K22179711 |       | 1-  | B    | d2      |
| C 1317 | CHIP CAP.       | 0.0056uF | 25V  | B    | GRM155B11E562KA01D | K22148802 |       | 1-  | B    | d2      |
| C 1318 | CHIP CAP.       | 15pF     | 50V  | CH   | GRM1552C1H150JA01D | K22178216 |       | 1-  | B    | d2      |
| C 1319 | CHIP CAP.       | 15pF     | 50V  | CH   | GRM1552C1H150JA01D | K22178216 |       | 1-  | B    | d3      |
| C 1320 | CHIP CAP.       | 0.1uF    | 10V  | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | d3      |
| C 1322 | CHIP CAP.       | 1uF      | 10V  | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | A    | B2      |
| C 1323 | CHIP CAP.       | 0.1uF    | 10V  | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | A    | B3      |
| C 1325 | CHIP CAP.       | 1uF      | 10V  | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | B    | d3      |
| C 1326 | CHIP CAP.       | 0.0068uF | 25V  | B    | GRM155B11E682KA01D | K22148803 |       | 1-  | B    | d3      |
| C 1327 | CHIP CAP.       | 0.0056uF | 25V  | B    | GRM155B11E562KA01D | K22148802 |       | 1-  | B    | e3      |
| C 1328 | CHIP CAP.       | 330pF    | 50V  | B    | GRM155B11H331KA01D | K22178803 |       | 1-  | B    | e3      |
| C 1329 | CHIP CAP.       | 2.2uF    | 6.3V | B    | GRM155B30J225KE95D | K22088805 |       | 1-  | B    | e3      |
| C 1330 | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | D2      |
| C 1332 | CHIP CAP.       | 12pF     | 50V  | CH   | GRM1552C1H120JA01D | K22178214 |       | 1-  | A    | E2      |
| C 1333 | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E2      |
| C 1335 | CHIP CAP.       | 120pF    | 50V  | CH   | GRM1552C1H121JA01D | K22178238 |       | 1-  | B    | a2      |
| C 1336 | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | b1      |
| C 1337 | CHIP CAP.       | 11pF     | 50V  | CH   | GRM1552C1H110JA01D | K22178213 |       | 1-  | B    | a2      |
| C 1338 | CHIP CAP.       | 0.1uF    | 10V  | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | d1      |
| CD1001 | CERAMIC DISC    |          |      |      | JTBM450CX24-A      | H7901530A |       | 1-  | A    | E2      |
| CD1002 | CERAMIC DISC    |          |      |      | JTBM450CX24-A      | H7901530A |       | 1-  | A    | B2      |
| CF1001 | CERAMIC FILTER  |          |      |      | LTWC450F           | H3900563  |       | 1-  | A    | D3      |
| CF1002 | CERAMIC FILTER  |          |      |      | LTWC450F           | H3900563  |       | 1-  | A    | B1      |
| D 1001 | DIODE           |          |      |      | S3DB-T             | G2071366  |       | 1-  | A    | B1      |
| D 1002 | SURGE ABSORBER  |          |      |      | DSP-141N-S00B      | Q9000586  |       | 1-  | A    | E1      |
| D 1003 | DIODE           |          |      |      | 1SS302A,LF(B       | G2070088A |       | 1-  | A    | E1      |
| D 1004 | DIODE           |          |      |      | RB715F T106        | G2070752  |       | 1-  | B    | a1      |
| D 1005 | DIODE           |          |      |      | JDP2S12CR          | G2071416  |       | 1-  | A    | D1      |
| D 1006 | DIODE           |          |      |      | JDP2S12CR          | G2071416  |       | 1-  | A    | D1      |
| D 1007 | DIODE           |          |      |      | DAN235U TL         | G2070176  |       | 1-  | B    | b2      |
| D 1008 | DIODE           |          |      |      | DA221M T2L         | G2070940  |       | 1-  | B    | b2      |
| D 1009 | DIODE           |          |      |      | DAN222 TL          | G2070174  |       | 1-  | B    | c1      |
| D 1010 | DIODE           |          |      |      | DA221M T2L         | G2070940  |       | 1-  | B    | c2      |
| D 1013 | DIODE           |          |      |      | 1SV279(TPH3.F)     | G2070618  |       | 1-  | A    | D1      |
| D 1014 | DIODE           |          |      |      | 1SV305(TPH3)       | G2070942  |       | 1-  | A    | D2      |
| D 1015 | DIODE           |          |      |      | 1SV305(TPH3)       | G2070942  |       | 1-  | A    | D2      |
| D 1016 | DIODE           |          |      |      | 1SV305(TPH3)       | G2070942  |       | 1-  | A    | D2      |
| D 1017 | DIODE           |          |      |      | 1SV305(TPH3)       | G2070942  |       | 1-  | A    | D1      |
| FB1001 | FERRITE BEADS   |          |      |      | SMB304729          | L9190094  |       | 1-  | B    | c1      |
| FB1002 | FERRITE BEADS   |          |      |      | BLM18BD601SN1D     | L9190143  |       | 1-  | A    | C1      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION   | VALUE   | V/W | TOL. | MFR'S DESIG             | YAESU P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|---------------|---------|-----|------|-------------------------|-----------|-------|-----|------|---------|
| FB1003 | FERRITE BEADS |         |     |      | BLM15BD601SN1D          | L9190222  |       | 1-  | A    | B2      |
| FB1005 | FERRITE BEADS |         |     |      | BLM18PG121SN1D          | L9190178  |       | 1-  | B    | e1      |
| FB1006 | FERRITE BEADS |         |     |      | BLM18PG121SN1D          | L9190178  |       | 1-  | B    | e1      |
| J 1001 | CONNECTOR     |         |     |      | 30FLT-SM2-TB(LF)(SN)(M) | P1091142  |       | 1-  | A    | B2      |
| J 1002 | CONNECTOR     |         |     |      | 53398-0271              | P0091191  |       | 1-  | B    | e1      |
| L 1002 | COIL          | 0.056uH |     |      | TAS0806-56NK            | L0023105  |       | 1   | A    | E1      |
| L 1002 | COIL          | 0.056uH |     | 10%  | LWS-0005                | L0023356  |       | 2-  | A    | E1      |
| L 1003 | COIL          | 0.056uH |     |      | TAS0806-56NK            | L0023105  |       | 1   | A    | E1      |
| L 1003 | COIL          | 0.056uH |     | 10%  | LWS-0005                | L0023356  |       | 2-  | A    | E1      |
| L 1004 | CHIP COIL     | 0.033uH |     | 2%   | LQW18AN33NG00D          | L1690886  |       | 1-  | A    | D2      |
| L 1005 | CHIP COIL     | 0.068uH |     | 2%   | LQW18AN68NG00D          | L1690890  |       | 1-  | A    | E2      |
| L 1006 | CHIP COIL     | 0.068uH |     | 2%   | LQW18AN68NG00D          | L1690890  |       | 1-  | A    | E2      |
| L 1008 | COIL          | 0.047uH |     |      | TAS0805-47NK            | L0023104  |       | 1   | A    | D1      |
| L 1008 | COIL          | 0.047uH |     | 10%  | LWS-0004                | L0023355  |       | 2-  | A    | D1      |
| L 1010 | COIL          | 0.212uH |     |      | ASs051047-212NJ         | L0022834  |       | 1-  | A    | D1      |
| L 1010 | COIL          | 0.212uH |     | 10%  | LASAS-0001              | L0023357  |       | 3-  | A    | D1      |
| L 1011 | CHIP COIL     | 0.039uH |     | 2%   | LQW18AN39NG00D          | L1690887  |       | 1-  | A    | E2      |
| L 1012 | COIL          | 0.047uH |     |      | TAS0805-47NK            | L0023104  |       | 1   | A    | D1      |
| L 1012 | COIL          | 0.047uH |     | 10%  | LWS-0004                | L0023355  |       | 2-  | A    | D1      |
| L 1013 | CHIP COIL     | 0.27uH  |     | 2%   | LQW18ANR27G00D          | L1691785  |       | 1-  | A    | E2      |
| L 1014 | CHIP COIL     | 0.039uH |     | 2%   | LQW18AN39NG00D          | L1690887  |       | 1-  | A    | E2      |
| L 1015 | CHIP COIL     | 0.039uH |     | 2%   | LQW18AN39NG00D          | L1690887  |       | 1-  | A    | E2      |
| L 1016 | M.RFC         | 0.22uH  |     |      | HK1005 R22J-T           | L1691854  |       | 1-  | A    | E2      |
| L 1017 | M.RFC         | 0.18uH  |     |      | HK1005 R18J-T           | L1691852  |       | 1-  | B    | d1      |
| L 1018 | M.RFC         | 0.18uH  |     |      | HK1005 R18J-T           | L1691852  |       | 1-  | B    | c1      |
| L 1019 | CHIP COIL     | 0.22uH  |     | 2%   | LQW18ANR22G00D          | L1690896  |       | 1-  | B    | a2      |
| L 1020 | CHIP COIL     | 0.039uH |     | 2%   | LQW18AN39NG00D          | L1690887  |       | 1-  | B    | a2      |
| L 1022 | M.RFC         | 0.027uH |     |      | HK1005 27NJ-T           | L1691382  |       | 1-  | B    | b2      |
| L 1023 | M.RFC         | 1uH     |     | 5%   | C2012C-1R0J             | L1691160  |       | 1-  | A    | E2      |
| L 1024 | CHIP COIL     | 0.039uH |     | 2%   | LQW18AN39NG00D          | L1690887  |       | 1-  | B    | a2      |
| L 1026 | M.RFC         | 0.039uH |     |      | HK1005 39NJ-T           | L1691384  |       | 1-  | B    | b2      |
| L 1027 | CHIP COIL     | 0.039uH |     | 2%   | LQW18AN39NG00D          | L1690887  |       | 1-  | B    | a2      |
| L 1029 | M.RFC         | 0.082uH |     |      | HK1005 82NJ-T           | L1691827  |       | 1-  | B    | a2      |
| L 1032 | CHIP COIL     | 0.15uH  |     | 2%   | LQW18ANR15G00D          | L1690894  |       | 1-  | A    | E2      |
| L 1033 | M.RFC         | 1uH     |     | 5%   | C2012C-1R0J             | L1691160  |       | 1-  | A    | E2      |
| L 1038 | M.RFC         | 1.5uH   |     |      | LK1608 1R5K-T           | L1690846  |       | 1-  | B    | b2      |
| L 1040 | CHIP COIL     | 0.047uH |     | 2%   | LQW18AN47NG00D          | L1690888  |       | 1-  | A    | E2      |
| L 1041 | M.RFC         | 0.1uH   |     |      | HK1005 R10J-T           | L1691825  |       | 1-  | B    | b2      |
| L 1042 | CHIP COIL     | 0.047uH |     | 2%   | LQW18AN47NG00D          | L1690888  |       | 1-  | A    | D2      |
| L 1043 | CHIP COIL     | 0.047uH |     | 2%   | LQW18AN47NG00D          | L1690888  |       | 1-  | A    | D2      |
| L 1046 | M.RFC         | 1uH     |     |      | LK1608 1R0K-T           | L1690687  |       | 1-  | B    | c2      |
| L 1050 | M.RFC         | 0.15uH  |     |      | HK1005 R15J-T           | L1691826  |       | 1-  | A    | D2      |
| L 1051 | M.RFC         | 2.2uH   |     | 10%  | LK1005 2R2K-T           | L1691716  |       | 1-  | A    | D2      |
| L 1052 | CHIP COIL     | 0.033uH |     | 2%   | LQW2BAN33NG00L          | L1691894  |       | 1-  | A    | D2      |
| L 1053 | M.RFC         | 2.2uH   |     | 10%  | LK1005 2R2K-T           | L1691716  |       | 1-  | A    | D1      |
| L 1055 | M.RFC         | 0.056uH |     |      | HK1005 56NJ-T           | L1691250  |       | 1-  | B    | c2      |
| L 1056 | M.RFC         | 0.1uH   |     |      | HK1005 R10J-T           | L1691825  |       | 1-  | B    | d2      |
| L 1057 | CHIP COIL     | 0.1uH   |     | 2%   | LQW18ANR10G00D          | L1690892  |       | 1-  | B    | a2      |
| L 1058 | CHIP COIL     | 0.068uH |     | 2%   | LQW18AN68NG00D          | L1690890  |       | 1-  | B    | a2      |
| Q 1001 | IC            |         |     |      | NJM7808DL1A-TE1         | G1093802  |       | 1-  | B    | e1      |
| Q 1002 | TRANSISTOR    |         |     |      | 2SC4617 TL R            | G3346178R |       | 1-  | B    | e2      |
| Q 1003 | TRANSISTOR    |         |     |      | 2SB1301-T2 ZQ/ZP        | G3213017Q |       | 1-  | B    | e1      |
| Q 1004 | IC            |         |     |      | TAR5S50U(TE85L.F)       | G1094097  |       | 1-  | B    | e2      |
| Q 1005 | FET           |         |     |      | RZM002P02               | G3070432  |       | 1-  | B    | e2      |
| Q 1006 | IC            |         |     |      | LM2904PWR               | G1094010  |       | 1-  | A    | B1      |
| Q 1007 | TRANSISTOR    |         |     |      | DTC143ZE TL             | G3070102  |       | 1-  | B    | e2      |
| Q 1008 | IC            |         |     |      | RA33H1516M1-501         | G1095524  |       | 1-  | A    | B1      |
| Q 1009 | FET           |         |     |      | 3SK294(TE85L)           | G4802948A |       | 1-  | A    | E2      |
| Q 1010 | IC            |         |     |      | TAR5S33U(TE85L.F)       | G1094549  |       | 1-  | B    | e2      |
| Q 1011 | FET           |         |     |      | RZM002P02               | G3070432  |       | 1-  | B    | e2      |
| Q 1012 | TRANSISTOR    |         |     |      | DTC143ZE TL             | G3070102  |       | 1-  | B    | e2      |
| Q 1013 | TRANSISTOR    |         |     |      | 2SC5226-4/5-TL          | G3352268Z |       | 1-  | B    | c1      |
| Q 1014 | TRANSISTOR    |         |     |      | DTC143ZE TL             | G3070102  |       | 1-  | B    | c1      |
| Q 1015 | FET           |         |     |      | 3SK293(TE85L.F)         | G4802938A |       | 1-  | A    | E2      |
| Q 1016 | TRANSISTOR    |         |     |      | DTC124TE TL             | G3070128  |       | 1-  | B    | c1      |
| Q 1017 | TRANSISTOR    |         |     |      | UMD5N TR                | G3070343  |       | 1-  | A    | D2      |
| Q 1018 | FET           |         |     |      | 3SK293(TE85L.F)         | G4802938A |       | 1-  | B    | a2      |
| Q 1019 | FET           |         |     |      | 3SK293(TE85L.F)         | G4802938A |       | 1-  | A    | E2      |
| Q 1020 | TRANSISTOR    |         |     |      | DTC143ZE TL             | G3070102  |       | 1-  | A    | B1      |
| Q 1021 | TRANSISTOR    |         |     |      | 2SC4915-O(TE85L.F)      | G3349158O |       | 1-  | B    | b2      |
| Q 1022 | IC            |         |     |      | NJM12902V-TE1           | G1093592  |       | 1-  | A    | C2      |
| Q 1023 | FET           |         |     |      | 3SK293(TE85L.F)         | G4802938A |       | 1-  | A    | D2      |
| Q 1024 | TRANSISTOR    |         |     |      | 2SC5066-O,LF(T          | G3350668  |       | 1-  | B    | b2      |
| Q 1028 | TRANSISTOR    |         |     |      | 2SC4915-O(TE85L.F)      | G3349158O |       | 1-  | B    | b2      |
| Q 1029 | IC            |         |     |      | NJM2591V-TE1            | G1094024  |       | 1-  | B    | b2      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG       | YAESU P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-------------------|-----------|-------|-----|------|---------|
| Q 1032 | IC          |       |       |      | NJM2591V-TE1      | G1094024  |       | 1-  | B    | d2      |
| Q 1034 | IC          |       |       |      | AK2330-L          | G1094583  |       | 1-  | A    | B2      |
| Q 1036 | TRANSISTOR  |       |       |      | SSM3K15AFS,LF(B   | G3070502  |       | 1-  | B    | e2      |
| Q 1037 | IC          |       |       |      | TDA2003G-TA5-T    | G1095316  |       | 1-  | A    | A2      |
| Q 1038 | TRANSISTOR  |       |       |      | 2SC5066-O,LF(T    | G3350668  |       | 1-  | A    | D2      |
| Q 1039 | TRANSISTOR  |       |       |      | 2SC5488A-TL       | G3354888A |       | 1-  | A    | D2      |
| Q 1040 | TRANSISTOR  |       |       |      | 2SC4617 TL R      | G3346178R |       | 1-  | B    | b2      |
| Q 1041 | IC          |       |       |      | AK1542A           | G1095049  |       | 1-  | A    | C2      |
| Q 1042 | FET         |       |       |      | 2SK880GR(TE85R.F) | G3808807G |       | 1-  | A    | C2      |
| Q 1043 | IC          |       |       |      | NJM12902V-TE1     | G1093592  |       | 1-  | B    | d2      |
| R 1001 | CHIP RES.   | 56k   | 1/16W | 1%   | RMC1/16SK563FTH   | J24189526 |       | 1-  | A    | E1      |
| R 1002 | CHIP RES.   | 4.7k  | 1/16W | 1%   | RMC1/16SK472FTH   | J24189488 |       | 1-  | B    | a1      |
| R 1003 | CHIP RES.   | 22k   | 1/16W | 1%   | RMC1/16SK223FTH   | J24189492 |       | 1-  | B    | e2      |
| R 1004 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16SK103FTH   | J24189489 |       | 1-  | B    | e1      |
| R 1005 | CHIP RES.   | 22k   | 1/16W | 1%   | RMC1/16SK223FTH   | J24189492 |       | 1-  | B    | e2      |
| R 1006 | CHIP RES.   | 1k    | 1/4W  | 5%   | RMC1/4 102JATP    | J24245102 |       | 1-  | B    | e1      |
| R 1007 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |       | 1-  | A    | E2      |
| R 1008 | CHIP RES.   | 4.7k  | 1/16W | 1%   | RMC1/16SK472FTH   | J24189488 |       | 1-  | B    | a1      |
| R 1009 | CHIP RES.   | 120   | 1/4W  | 5%   | RMC1/4 121JATP    | J24245121 |       | 1-  | B    | c1      |
| R 1010 | CHIP RES.   | 220k  | 1/16W | 1%   | RMC1/16SK224FTH   | J24189533 |       | 1-  | A    | E2      |
| R 1011 | CHIP RES.   | 330k  | 1/16W | 1%   | RMC1/16SK334FTH   | J24189535 |       | 1-  | A    | E2      |
| R 1012 | CHIP RES.   | 100k  | 1/16W | 1%   | RMC1/16SK104FTH   | J24189529 |       | 1-  | B    | e2      |
| R 1013 | CHIP RES.   | 120k  | 1/16W | 1%   | RMC1/16SK124FTH   | J24189530 |       | 1-  | A    | E2      |
| R 1014 | CHIP RES.   | 470k  | 1/16W | 1%   | RMC1/16SK474FTH   | J24189537 |       | 1-  | A    | E2      |
| R 1015 | CHIP RES.   | 4.7k  | 1/16W | 1%   | RMC1/16SK472FTH   | J24189488 |       | 1-  | A    | E2      |
| R 1016 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH   | J24189487 |       | 1-  | B    | c1      |
| R 1017 | CHIP RES.   | 47    | 1/16W | 5%   | RMC1/16S 470JTH   | J24189009 |       | 1-  | A    | E2      |
| R 1018 | CHIP RES.   | 220   | 1/16W | 1%   | RMC1/16SK221FTH   | J24189508 |       | 1-  | A    | E2      |
| R 1019 | CHIP RES.   | 100k  | 1/16W | 1%   | RMC1/16SK104FTH   | J24189529 |       | 1-  | B    | e2      |
| R 1020 | CHIP RES.   | 330   | 1/16W | 1%   | RMC1/16SK331FTH   | J24189510 |       | 1-  | B    | c1      |
| R 1021 | CHIP RES.   | 47    | 1/16W | 5%   | RMC1/16S 470JTH   | J24189009 |       | 1-  | A    | E2      |
| R 1022 | CHIP RES.   | 100k  | 1/16W | 1%   | RMC1/16SK104FTH   | J24189529 |       | 1-  | A    | E2      |
| R 1023 | CHIP RES.   | 82k   | 1/16W | 1%   | RMC1/16SK823FTH   | J24189528 |       | 1-  | A    | E2      |
| R 1024 | CHIP RES.   | 47    | 1/16W | 5%   | RMC1/16S 470JTH   | J24189009 |       | 1-  | B    | c1      |
| R 1025 | CHIP RES.   | 4.7k  | 1/16W | 1%   | RMC1/16SK472FTH   | J24189488 |       | 1-  | B    | c1      |
| R 1026 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH   | J24189487 |       | 1-  | A    | C1      |
| R 1027 | CHIP RES.   | 2.2k  | 1/16W | 1%   | RMC1/16SK222FTH   | J24189497 |       | 1-  | B    | c1      |
| R 1028 | CHIP RES.   | 100k  | 1/16W | 1%   | RMC1/16SK104FTH   | J24189529 |       | 1-  | A    | E2      |
| R 1029 | CHIP RES.   | 100k  | 1/16W | 1%   | RMC1/16SK104FTH   | J24189529 |       | 1-  | A    | E3      |
| R 1030 | CHIP RES.   | 150   | 1/16W | 1%   | RMC1/16SK151FTH   | J24189506 |       | 1-  | A    | E3      |
| R 1031 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH   | J24189487 |       | 1-  | A    | E2      |
| R 1032 | CHIP RES.   | 270   | 1/16W | 1%   | RMC1/16SK271FTH   | J24189509 |       | 1-  | B    | b2      |
| R 1033 | CHIP RES.   | 470k  | 1/16W | 1%   | RMC1/16SK474FTH   | J24189537 |       | 1-  | A    | C1      |
| R 1034 | CHIP RES.   | 22k   | 1/16W | 1%   | RMC1/16SK223FTH   | J24189492 |       | 1-  | B    | c1      |
| R 1035 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16SK103FTH   | J24189489 |       | 1-  | A    | C1      |
| R 1036 | CHIP RES.   | 10    | 1/16W | 5%   | RMC1/16S 100JTH   | J24189001 |       | 1-  | A    | E2      |
| R 1037 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16SK103FTH   | J24189489 |       | 1-  | A    | C1      |
| R 1038 | CHIP RES.   | 100k  | 1/16W | 1%   | RMC1/16SK104FTH   | J24189529 |       | 1-  | B    | a2      |
| R 1039 | CHIP RES.   | 100k  | 1/16W | 1%   | RMC1/16SK104FTH   | J24189529 |       | 1-  | B    | a2      |
| R 1040 | CHIP RES.   | 100k  | 1/16W | 1%   | RMC1/16SK104FTH   | J24189529 |       | 1-  | B    | a2      |
| R 1041 | CHIP RES.   | 82k   | 1/16W | 1%   | RMC1/16SK823FTH   | J24189528 |       | 1-  | B    | a2      |
| R 1042 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH   | J24189487 |       | 1-  | A    | C2      |
| R 1044 | CHIP RES.   | 47    | 1/16W | 5%   | RMC1/16S 470JTH   | J24189009 |       | 1-  | A    | E2      |
| R 1045 | CHIP RES.   | 150   | 1/16W | 1%   | RMC1/16SK151FTH   | J24189506 |       | 1-  | B    | b2      |
| R 1046 | CHIP RES.   | 2.2k  | 1/16W | 1%   | RMC1/16SK222FTH   | J24189497 |       | 1-  | A    | E2      |
| R 1047 | CHIP RES.   | 390k  | 1/16W | 1%   | RMC1/16SK394FTH   | J24189536 |       | 1-  | A    | E2      |
| R 1048 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16SK103FTH   | J24189489 |       | 1-  | A    | B1      |
| R 1049 | CHIP RES.   | 5.6k  | 1/16W | 1%   | RMC1/16SK562FTH   | J24189520 |       | 1-  | A    | B1      |
| R 1050 | CHIP RES.   | 1M    | 1/16W | 1%   | RMC1/16SK105FTH   | J24189541 |       | 1-  | A    | E2      |
| R 1051 | CHIP RES.   | 560   | 1/16W | 1%   | RMC1/16SK561FTH   | J24189513 |       | 1-  | B    | b2      |
| R 1052 | CHIP RES.   | 47    | 1/16W | 5%   | RMC1/16S 470JTH   | J24189009 |       | 1-  | B    | a2      |
| R 1053 | CHIP RES.   | 470   | 1/16W | 1%   | RMC1/16SK471FTH   | J24189512 |       | 1-  | B    | a3      |
| R 1054 | CHIP RES.   | 47    | 1/16W | 5%   | RMC1/16S 470JTH   | J24189009 |       | 1-  | B    | c1      |
| R 1055 | CHIP RES.   | 47k   | 1/16W | 1%   | RMC1/16SK473FTH   | J24189525 |       | 1-  | B    | b2      |
| R 1056 | CHIP RES.   | 2.2k  | 1/16W | 1%   | RMC1/16SK222FTH   | J24189497 |       | 1-  | B    | c1      |
| R 1057 | CHIP RES.   | 2.2k  | 1/16W | 1%   | RMC1/16SK222FTH   | J24189497 |       | 1-  | B    | b2      |
| R 1058 | CHIP RES.   | 2.2k  | 1/16W | 1%   | RMC1/16SK222FTH   | J24189497 |       | 1-  | B    | b2      |
| R 1059 | CHIP RES.   | 4.7k  | 1/16W | 1%   | RMC1/16SK472FTH   | J24189488 |       | 1-  | B    | b2      |
| R 1060 | CHIP RES.   | 47    | 1/16W | 5%   | RMC1/16S 470JTH   | J24189009 |       | 1-  | A    | D2      |
| R 1061 | CHIP RES.   | 1M    | 1/16W | 1%   | RMC1/16SK105FTH   | J24189541 |       | 1-  | A    | D2      |
| R 1062 | CHIP RES.   | 390k  | 1/16W | 1%   | RMC1/16SK394FTH   | J24189536 |       | 1-  | A    | D2      |
| R 1063 | CHIP RES.   | 2.2k  | 1/16W | 1%   | RMC1/16SK222FTH   | J24189497 |       | 1-  | B    | b2      |
| R 1064 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16S JPTH     | J24189070 |       | 1-  | B    | b2      |
| R 1065 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |       | 1-  | B    | b2      |
| R 1066 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH   | J24189487 |       | 1-  | B    | b2      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | YAESU P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|-------|-----|------|---------|
| R 1067 | CHIP RES.   | 47    | 1/16W | 5%   | RMC1/16S 470JTH | J24189009 |       | 1-  | A    | D2      |
| R 1068 | CHIP RES.   | 4.7k  | 1/16W | 1%   | RMC1/16SK472FTH | J24189488 |       | 1-  | B    | b2      |
| R 1069 | CHIP RES.   | 2.2k  | 1/16W | 1%   | RMC1/16SK222FTH | J24189497 |       | 1-  | B    | b2      |
| R 1070 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |       | 1-  | A    | D2      |
| R 1071 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |       | 1-  | B    | b3      |
| R 1072 | CHIP RES.   | 47    | 1/16W | 5%   | RMC1/16S 470JTH | J24189009 |       | 1-  | B    | b2      |
| R 1075 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |       | 1-  | A    | C2      |
| R 1076 | CHIP RES.   | 2.2k  | 1/16W | 1%   | RMC1/16SK222FTH | J24189497 |       | 1-  | B    | c2      |
| R 1077 | CHIP RES.   | 47k   | 1/16W | 1%   | RMC1/16SK473FTH | J24189525 |       | 1-  | B    | b2      |
| R 1079 | CHIP RES.   | 2.2k  | 1/16W | 1%   | RMC1/16SK222FTH | J24189497 |       | 1-  | B    | e2      |
| R 1084 | CHIP RES.   | 4.7k  | 1/16W | 1%   | RMC1/16SK472FTH | J24189488 |       | 1-  | B    | c2      |
| R 1086 | CHIP RES.   | 3.3k  | 1/16W | 1%   | RMC1/16SK332FTH | J24189518 |       | 1-  | A    | D2      |
| R 1093 | CHIP RES.   | 22k   | 1/16W | 1%   | RMC1/16SK223FTH | J24189492 |       | 1-  | A    | D2      |
| R 1096 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |       | 1-  | B    | d2      |
| R 1097 | CHIP RES.   | 2.7k  | 1/16W | 1%   | RMC1/16SK272FTH | J24189517 |       | 1-  | A    | D2      |
| R 1098 | CHIP RES.   | 5.6k  | 1/16W | 1%   | RMC1/16SK562FTH | J24189520 |       | 1-  | A    | D2      |
| R 1100 | CHIP RES.   | 2.7k  | 1/16W | 1%   | RMC1/16SK272FTH | J24189517 |       | 1-  | A    | D2      |
| R 1102 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |       | 1-  | A    | C2      |
| R 1103 | CHIP RES.   | 47    | 1/16W | 5%   | RMC1/16S 470JTH | J24189009 |       | 1-  | B    | c2      |
| R 1105 | CHIP RES.   | 3.3k  | 1/16W | 1%   | RMC1/16SK332FTH | J24189518 |       | 1-  | A    | B2      |
| R 1106 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |       | 1-  | A    | C2      |
| R 1107 | CHIP RES.   | 180k  | 1/16W | 1%   | RMC1/16SK184FTH | J24189532 |       | 1-  | B    | d2      |
| R 1109 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |       | 1-  | A    | C2      |
| R 1110 | CHIP RES.   | 27k   | 1/16W | 1%   | RMC1/16SK273FTH | J24189493 |       | 1-  | B    | d2      |
| R 1111 | CHIP RES.   | 33k   | 1/16W | 1%   | RMC1/16SK333FTH | J24189494 |       | 1-  | B    | d2      |
| R 1112 | CHIP RES.   | 2.2k  | 1/16W | 1%   | RMC1/16SK222FTH | J24189497 |       | 1-  | B    | d2      |
| R 1113 | CHIP RES.   | 18k   | 1/16W | 1%   | RMC1/16SK183FTH | J24189523 |       | 1-  | B    | c3      |
| R 1114 | CHIP RES.   | 270   | 1/16W | 1%   | RMC1/16SK271FTH | J24189509 |       | 1-  | B    | d1      |
| R 1115 | CHIP RES.   | 15k   | 1/16W | 1%   | RMC1/16SK153FTH | J24189491 |       | 1-  | A    | C2      |
| R 1116 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16SK103FTH | J24189489 |       | 1-  | B    | c2      |
| R 1117 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16SK103FTH | J24189489 |       | 1-  | A    | C2      |
| R 1118 | CHIP RES.   | 1.8k  | 1/16W | 1%   | RMC1/16SK182FTH | J24189516 |       | 1-  | A    | C2      |
| R 1120 | CHIP RES.   | 330   | 1/16W | 1%   | RMC1/16SK331FTH | J24189510 |       | 1-  | B    | d2      |
| R 1121 | CHIP RES.   | 150k  | 1/16W | 1%   | RMC1/16SK154FTH | J24189531 |       | 1-  | A    | C2      |
| R 1123 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |       | 1-  | B    | e2      |
| R 1124 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |       | 1-  | A    | B2      |
| R 1127 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |       | 1-  | A    | B2      |
| R 1128 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |       | 1-  | A    | B2      |
| R 1129 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |       | 1-  | A    | B2      |
| R 1133 | CHIP RES.   | 4.7k  | 1/16W | 1%   | RMC1/16SK472FTH | J24189488 |       | 1-  | A    | C2      |
| R 1136 | CHIP RES.   | 4.7k  | 1/16W | 1%   | RMC1/16SK472FTH | J24189488 |       | 1-  | A    | C3      |
| R 1138 | CHIP RES.   | 33k   | 1/16W | 1%   | RMC1/16SK333FTH | J24189494 |       | 1-  | A    | A2      |
| R 1139 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16SK103FTH | J24189489 |       | 1-  | A    | A2      |
| R 1142 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16SK103FTH | J24189489 |       | 1-  | B    | e2      |
| R 1144 | CHIP RES.   | 15k   | 1/16W | 1%   | RMC1/16SK153FTH | J24189491 |       | 1-  | A    | C3      |
| R 1145 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16SK103FTH | J24189489 |       | 1-  | B    | e2      |
| R 1146 | CHIP RES.   | 120k  | 1/16W | 1%   | RMC1/16SK124FTH | J24189530 |       | 1-  | A    | D3      |
| R 1147 | CHIP RES.   | 2.2k  | 1/16W | 1%   | RMC1/16SK222FTH | J24189497 |       | 1-  | A    | D3      |
| R 1148 | CHIP RES.   | 220   | 1/4W  | 5%   | RMC1/4 221JATP  | J24245221 |       | 1-  | B    | e2      |
| R 1149 | CHIP RES.   | 2.2   | 1/16W | 5%   | RMC1/16S 2R2JTH | J24189602 |       | 1-  | B    | e2      |
| R 1150 | CHIP RES.   | 2.2   | 1/16W | 5%   | RMC1/16S 2R2JTH | J24189602 |       | 1-  | B    | e2      |
| R 1151 | CHIP RES.   | 220   | 1/16W | 1%   | RMC1/16SK221FTH | J24189508 |       | 1-  | B    | d2      |
| R 1152 | CHIP RES.   | 220   | 1/16W | 1%   | RMC1/16SK221FTH | J24189508 |       | 1-  | B    | b2      |
| R 1153 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |       | 1-  | A    | D2      |
| R 1154 | CHIP RES.   | 47k   | 1/16W | 1%   | RMC1/16SK473FTH | J24189525 |       | 1-  | A    | D2      |
| R 1155 | CHIP RES.   | 47    | 1/16W | 0.5% | RR0510R-470-D   | J24189087 |       | 1-  | A    | D2      |
| R 1156 | CHIP RES.   | 4.7k  | 1/16W | 0.5% | RR0510P-472-D   | J24189135 |       | 1-  | A    | D2      |
| R 1157 | CHIP RES.   | 680   | 1/16W | 0.5% | RR0510P-681-D   | J24189115 |       | 1-  | A    | D2      |
| R 1158 | CHIP RES.   | 12k   | 1/16W | 0.5% | RR0510P-123-D-C | J24189145 |       | 1-  | A    | D2      |
| R 1159 | CHIP RES.   | 47k   | 1/16W | 1%   | RMC1/16SK473FTH | J24189525 |       | 1-  | A    | D2      |
| R 1160 | CHIP RES.   | 33k   | 1/16W | 1%   | RMC1/16SK333FTH | J24189494 |       | 1-  | A    | D2      |
| R 1161 | CHIP RES.   | 120k  | 1/16W | 1%   | RMC1/16SK124FTH | J24189530 |       | 1-  | A    | D2      |
| R 1162 | CHIP RES.   | 4.7k  | 1/16W | 1%   | RMC1/16SK472FTH | J24189488 |       | 1-  | B    | b2      |
| R 1163 | CHIP RES.   | 390   | 1/16W | 1%   | RMC1/16SK391FTH | J24189511 |       | 1-  | A    | C1      |
| R 1164 | CHIP RES.   | 390   | 1/16W | 1%   | RMC1/16SK391FTH | J24189511 |       | 1-  | A    | C1      |
| R 1165 | CHIP RES.   | 560   | 1/16W | 1%   | RMC1/16SK561FTH | J24189513 |       | 1-  | A    | C1      |
| R 1166 | CHIP RES.   | 330k  | 1/16W | 1%   | RMC1/16SK334FTH | J24189535 |       | 1-  | A    | C1      |
| R 1167 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |       | 1-  | A    | C1      |
| R 1168 | CHIP RES.   | 33k   | 1/16W | 1%   | RMC1/16SK333FTH | J24189494 |       | 1-  | A    | C2      |
| R 1169 | CHIP RES.   | 68k   | 1/16W | 1%   | RMC1/16SK683FTH | J24189527 |       | 1-  | A    | C1      |
| R 1170 | CHIP RES.   | 27k   | 1/16W | 1%   | RMC1/16SK273FTH | J24189493 |       | 1-  | A    | C1      |
| R 1171 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |       | 1-  | A    | C2      |
| R 1172 | CHIP RES.   | 12    | 1/16W | 5%   | RMC1/16S 120JTH | J24189002 |       | 1-  | B    | c2      |
| R 1173 | CHIP RES.   | 12    | 1/16W | 5%   | RMC1/16S 120JTH | J24189002 |       | 1-  | B    | c2      |
| R 1174 | CHIP RES.   | 12    | 1/16W | 5%   | RMC1/16S 120JTH | J24189002 |       | 1-  | B    | c2      |

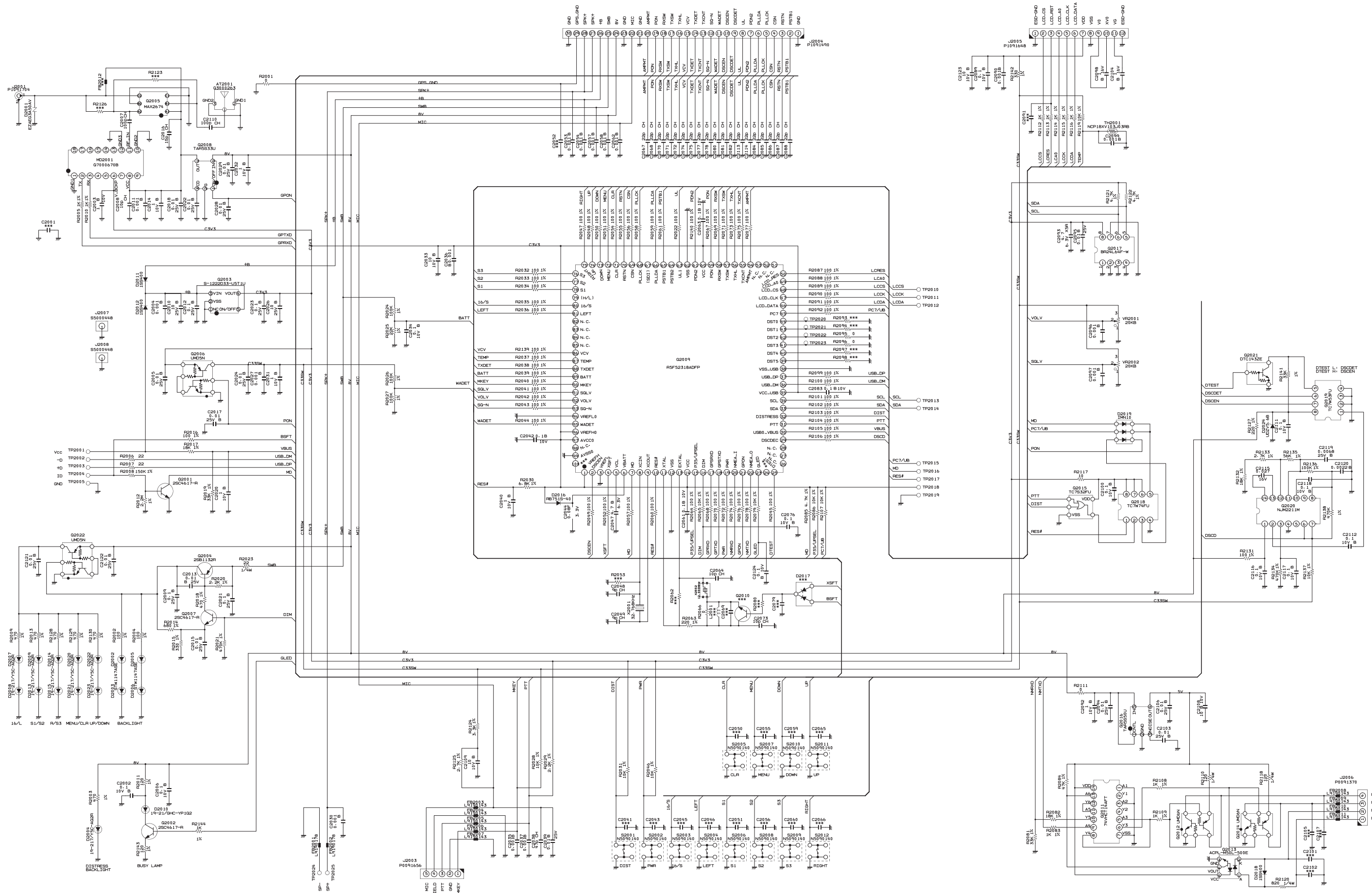
# MAIN Unit

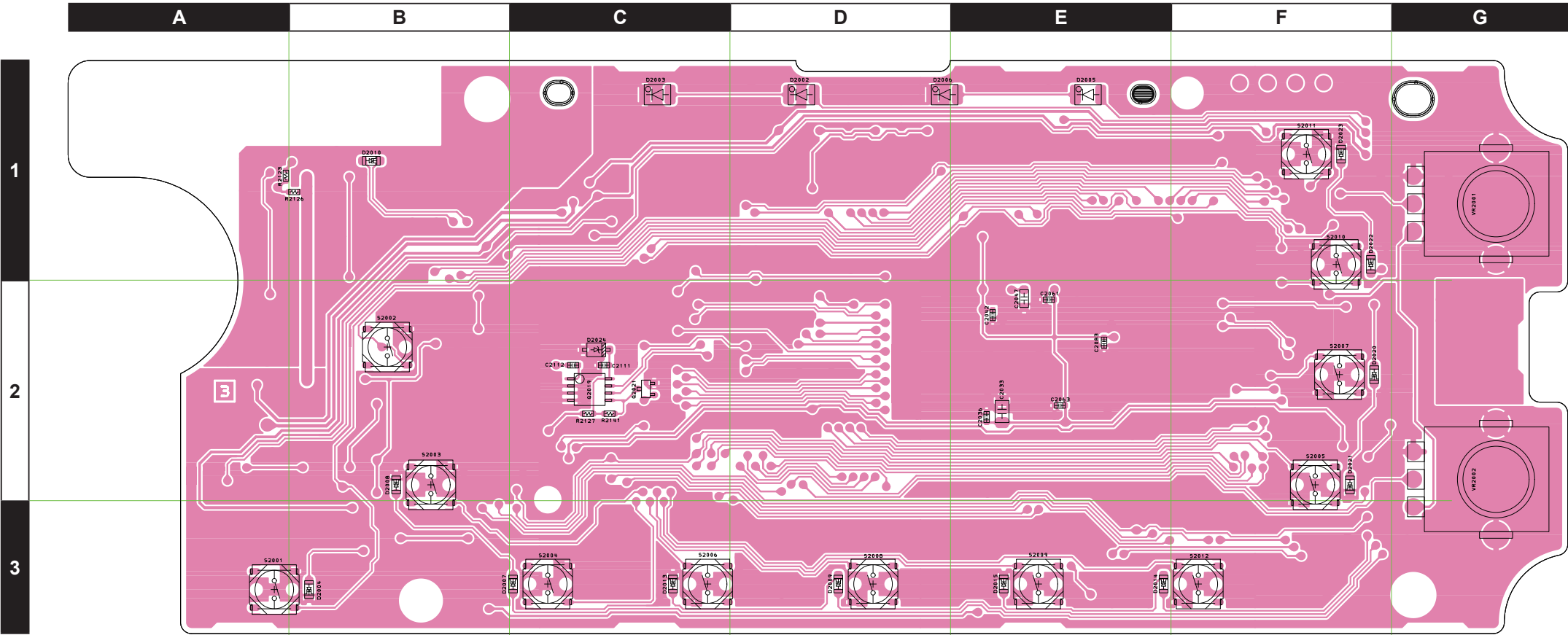
## Parts List

| REF    | DESCRIPTION  | VALUE        | V/W   | TOL. | MFR'S DESIG             | YAESU P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|--------------|--------------|-------|------|-------------------------|-----------|-------|-----|------|---------|
| R 1175 | CHIP RES.    | 10           | 1/16W | 5%   | RMC1/16S 100JTH         | J24189001 |       | 1-  | A    | C2      |
| R 1176 | CHIP RES.    | 5.6k         | 1/16W | 1%   | RMC1/16SK562FTH         | J24189520 |       | 1-  | B    | d2      |
| R 1177 | CHIP RES.    | 330k         | 1/16W | 1%   | RMC1/16SK334FTH         | J24189535 |       | 1-  | B    | d2      |
| R 1178 | CHIP RES.    | 2.2k         | 1/16W | 1%   | RMC1/16SK222FTH         | J24189497 |       | 1-  | B    | d2      |
| R 1179 | CHIP RES.    | 330k         | 1/16W | 1%   | RMC1/16SK334FTH         | J24189535 |       | 1-  | B    | d3      |
| R 1180 | CHIP RES.    | 120k         | 1/16W | 1%   | RMC1/16SK124FTH         | J24189530 |       | 1-  | B    | d3      |
| R 1181 | CHIP RES.    | 47           | 1/16W | 5%   | RMC1/16S 470JTH         | J24189009 |       | 1-  | A    | A2      |
| R 1182 | CHIP RES.    | 100k         | 1/16W | 1%   | RMC1/16SK104FTH         | J24189529 |       | 1-  | A    | B2      |
| R 1183 | CHIP RES.    | 100k         | 1/16W | 1%   | RMC1/16SK104FTH         | J24189529 |       | 1-  | A    | B2      |
| R 1184 | CHIP RES.    | 18k          | 1/16W | 1%   | RMC1/16SK183FTH         | J24189523 |       | 1-  | B    | d2      |
| R 1185 | CHIP RES.    | 18k          | 1/16W | 1%   | RMC1/16SK183FTH         | J24189523 |       | 1-  | A    | B2      |
| R 1186 | CHIP RES.    | 10k          | 1/16W | 1%   | RMC1/16SK103FTH         | J24189489 |       | 1-  | A    | B2      |
| R 1187 | CHIP RES.    | 1.2k         | 1/16W | 1%   | RMC1/16SK122FTH         | J24189515 |       | 1-  | B    | d3      |
| R 1188 | CHIP RES.    | 680          | 1/16W | 1%   | RMC1/16SK681FTH         | J24189514 |       | 1-  | B    | d3      |
| R 1189 | CHIP RES.    | 6.8k         | 1/16W | 1%   | RMC1/16SK682FTH         | J24189521 |       | 1-  | B    | d3      |
| R 1190 | CHIP RES.    | 39k          | 1/16W | 1%   | RMC1/16SK393FTH         | J24189524 |       | 1-  | B    | e3      |
| R 1191 | CHIP RES.    | 39k          | 1/16W | 1%   | RMC1/16SK393FTH         | J24189524 |       | 1-  | B    | e3      |
| R 1192 | CHIP RES.    | 1M           | 1/16W | 1%   | RMC1/16SK105FTH         | J24189541 |       | 1-  | A    | B2      |
| R 1193 | CHIP RES.    | 100k         | 1/16W | 1%   | RMC1/16SK104FTH         | J24189529 |       | 1-  | B    | e2      |
| R 1194 | CHIP RES.    | 100k         | 1/16W | 1%   | RMC1/16SK104FTH         | J24189529 |       | 1-  | B    | e2      |
| R 1195 | CHIP RES.    | 39k          | 1/16W | 1%   | RMC1/16SK393FTH         | J24189524 |       | 1-  | A    | B2      |
| R 1196 | CHIP RES.    | 47k          | 1/16W | 1%   | RMC1/16SK473FTH         | J24189525 |       | 1-  | A    | B2      |
| R 1197 | CHIP RES.    | 39k          | 1/16W | 1%   | RMC1/16SK393FTH         | J24189524 |       | 1-  | A    | D2      |
| R 1198 | CHIP RES.    | 15k          | 1/16W | 1%   | RMC1/16SK153FTH         | J24189491 |       | 1-  | A    | D2      |
| R 1199 | CHIP RES.    | 100          | 1/16W | 1%   | RMC1/16SK101FTH         | J24189504 |       | 1-  | A    | D2      |
| R 1200 | CHIP RES.    | 56k          | 1/16W | 1%   | RMC1/16SK563FTH         | J24189526 |       | 1-  | A    | E2      |
| R 1201 | CHIP RES.    | 47k          | 1/16W | 1%   | RMC1/16SK473FTH         | J24189525 |       | 1-  | A    | E2      |
| R 1202 | CHIP RES.    | 10           | 1/16W | 5%   | RMC1/16S 100JTH         | J24189001 |       | 1-  | B    | c2      |
| R 1203 | CHIP RES.    | 10           | 1/16W | 5%   | RMC1/16S 100JTH         | J24189001 |       | 1-  | B    | c2      |
| R 1204 | CHIP RES.    | 33k          | 1/16W | 1%   | RMC1/16SK333FTH         | J24189494 |       | 1-  | A    | B2      |
| R 1206 | CHIP RES.    | 0            | 1/16W | 5%   | RMC1/16S JPTH           | J24189070 |       | 1-  | B    | a2      |
| R 1207 | CHIP RES.    | 0            | 1/16W | 5%   | RMC1/16S JPTH           | J24189070 |       | 1-  | B    | a2      |
| R 1208 | CHIP RES.    | 0            | 1/16W | 5%   | RMC1/16S JPTH           | J24189070 |       | 1-  | B    | a2      |
| R 1209 | CHIP RES.    | 0            | 1/16W | 5%   | RMC1/16 000JATP         | J24185000 |       | 1-  | A    | E1      |
| R 1210 | CHIP RES.    | 0            | 1/16W | 5%   | RMC1/16S JPTH           | J24189070 |       | 1-  | A    | B2      |
| R 1211 | CHIP RES.    | 0            | 1/16W | 5%   | RMC1/16S JPTH           | J24189070 |       | 1-  | A    | D2      |
| SC1001 | SHIELD CASE  |              |       |      | (VCO)                   | RA6236100 |       | 1-  | A    | D2      |
| TH1001 | THERMISTOR   |              |       |      | NCP15WL473J03RC         | G9090175  |       | 1-  | B    | d1      |
| TH1002 | THERMISTOR   |              |       |      | TH05 3T103FR            | G9090146  |       | 1-  | B    | d2      |
| X 1001 | TCXO         | 44.941667MHz |       |      | DSB321SDNR-44.941667MHZ | H9501944  |       | 1-  | A    | D2      |
| X 1002 | XTAL DSX221G | 21.25MHz     |       |      | DSX221G-21.250MHZ       | H0103494  |       | 1-  | B    | b3      |
| X 1004 | VCTCXO       | 19.2MHz      |       |      | NT3225SA-19.2MHZ        | H9501920  |       | 1-  | A    | C2      |
| XF1001 | SAW FILTER   |              |       |      | HDF160F SMD-3           | H4900027  |       | 1-  | A    | E2      |
| XF1002 | XTAL FILTER  | MHz          |       |      | D38815GQ15 38.85M       | H1102458  |       | 1-  | B    | b2      |
| XF1003 | XTAL FILTER  |              |       |      | UM-5 MCF 21.7000MHZ     | H1102472  |       | 1-  | A    | E3      |
| XF1004 | XTAL FILTER  |              |       |      | UM-5 MCF 21.7000MHZ     | H1102472  |       | 1-  | A    | E3      |

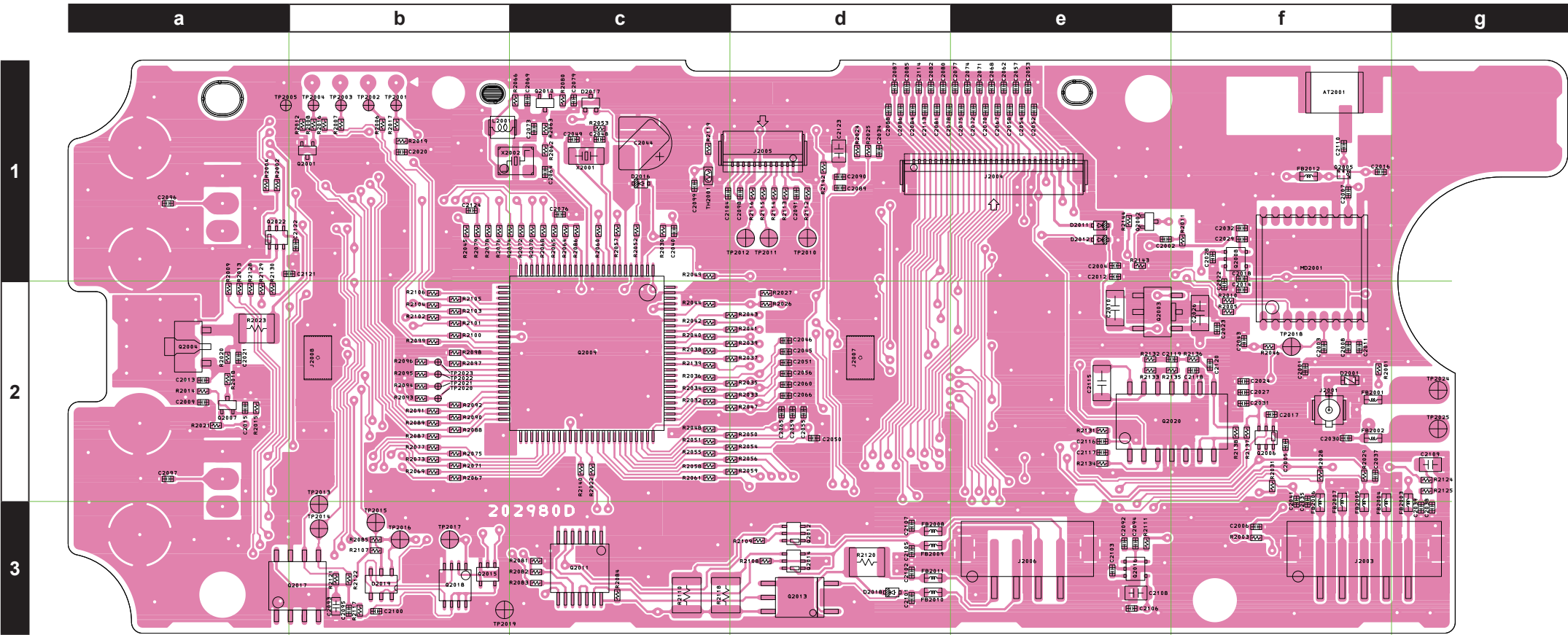
## CNTL Unit

### Circuit Diagram





Side A



Side B

| REF                                                           | DESCRIPTION  | VALUE   | V/W  | TOL. | MFR'S DESIG        | YAESU P/N | VERS. | LOT | SIDE | LAY ADR |
|---------------------------------------------------------------|--------------|---------|------|------|--------------------|-----------|-------|-----|------|---------|
| PCB with Components is included CNTL ASSY (see Exploded View) |              |         |      |      |                    |           |       |     |      |         |
| AT2001                                                        | CHIP ANTENNA |         |      |      | ACD-5036-A3-CC-S   | Q3000263  | W/GPS | 1-  | B    | f1      |
| C 2002                                                        | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 | W/GPS | 1-  | B    | f1      |
| C 2003                                                        | CHIP CAP.    | 1uF     | 10V  | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | B    | f2      |
| C 2004                                                        | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | e1      |
| C 2005                                                        | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 | W/GPS | 1-  | B    | f2      |
| C 2006                                                        | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | f3      |
| C 2007                                                        | CHIP CAP.    | 100pF   | 50V  | CH   | GRM1552C1H101JA01D | K22178236 |       | 1-  | B    | f1      |
| C 2008                                                        | CHIP CAP.    | 10pF    | 50V  | CH   | GRM1552C1H100JA01D | K22178212 | W/GPS | 1-  | B    | f2      |
| C 2009                                                        | CHIP CAP.    | 0.1uF   | 25V  | B    | GRM155B31E104KA87D | K22148838 | W/GPS | 1-  | B    | a2      |
| C 2010                                                        | CHIP CAP.    | 10uF    | 25V  | B    | GRM31CB31E106KA75L | K22141815 |       | 1-  | B    | e2      |
| C 2011                                                        | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | f2      |
| C 2012                                                        | CHIP CAP.    | 0.1uF   | 25V  | B    | GRM155B31E104KA87D | K22148838 | W/GPS | 1-  | B    | e1      |
| C 2013                                                        | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | a2      |
| C 2014                                                        | CHIP CAP.    | 1uF     | 10V  | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | B    | f2      |
| C 2015                                                        | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 | W/GPS | 1-  | B    | a2      |
| C 2016                                                        | CHIP CAP.    | 10pF    | 50V  | CH   | GRM1552C1H100JA01D | K22178212 |       | 1-  | B    | f1      |
| C 2017                                                        | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | f2      |
| C 2018                                                        | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 | W/GPS | 1-  | B    | f1      |
| C 2020                                                        | CHIP CAP.    | 1uF     | 10V  | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | B    | b1      |
| C 2021                                                        | CHIP CAP.    | 0.1uF   | 25V  | B    | GRM155B31E104KA87D | K22148838 |       | 1-  | B    | a2      |
| C 2022                                                        | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 | W/GPS | 1-  | B    | f2      |
| C 2023                                                        | CHIP CAP.    | 0.1uF   | 25V  | B    | GRM155B31E104KA87D | K22148838 |       | 1-  | B    | f2      |
| C 2024                                                        | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | f2      |
| C 2026                                                        | CHIP CAP.    | 10uF    | 25V  | B    | GRM31CB31E106KA75L | K22141815 | W/GPS | 1-  | B    | f2      |
| C 2027                                                        | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | f2      |
| C 2028                                                        | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | f1      |
| C 2029                                                        | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 | W/GPS | 1-  | B    | f1      |
| C 2030                                                        | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | f2      |
| C 2031                                                        | CHIP CAP.    | 1uF     | 10V  | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | B    | f2      |
| C 2032                                                        | CHIP CAP.    | 1uF     | 10V  | B    | GRM155B31A105KE15D | K22108809 | W/GPS | 1-  | B    | f1      |
| C 2033                                                        | CHIP CAP.    | 10uF    | 10V  | B    | GRM21BB31A106KE18L | K22100808 |       | 1-  | A    | E2      |
| C 2034                                                        | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | B    | d1      |
| C 2035                                                        | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 | W/ CE | 1-  | B    | f3      |
| C 2036                                                        | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E2      |
| C 2037                                                        | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | f2      |
| C 2038                                                        | CHIP CAP.    | 47pF    | 50V  | CH   | GRM1552C1H470JA01D | K22178228 | W/ CE | 1-  | B    | g3      |
| C 2039                                                        | CHIP CAP.    | 0.01uF  | 25V  | B    | GRM155B11E103KA01D | K22148834 |       | 1-  | B    | g3      |
| C 2040                                                        | CHIP CAP.    | 1uF     | 10V  | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | B    | c1      |
| C 2042                                                        | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 | W/ CE | 1-  | A    | E2      |
| C 2044                                                        | CAP.         | 0.08F   | 3.3V |      | XH414HG-IV01E      | K60060004 |       | 1-  | B    | c1      |
| C 2047                                                        | CHIP CAP.    | 4.7uF   | 6.3V | B    | JMK107BJ475MA-T    | K22084803 |       | 1-  | A    | E2      |
| C 2048                                                        | CHIP CAP.    | 9pF     | 50V  | CH   | GRM1552C1H9R0DA01D | K22178211 | W/ CE | 1-  | B    | c1      |
| C 2049                                                        | CHIP CAP.    | 9pF     | 50V  | CH   | GRM1552C1H9R0DA01D | K22178211 |       | 1-  | B    | c1      |
| C 2053                                                        | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | e1      |
| C 2054                                                        | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 | W/ CE | 1-  | B    | e1      |
| C 2057                                                        | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | e1      |
| C 2058                                                        | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | e1      |
| C 2061                                                        | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 | W/ CE | 1-  | A    | E2      |
| C 2062                                                        | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | e1      |
| C 2063                                                        | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 |       | 1-  | A    | E2      |
| C 2064                                                        | CHIP CAP.    | 10pF    | 50V  | CH   | GRM1552C1H100JA01D | K22178212 | W/ CE | 1-  | B    | c1      |
| C 2067                                                        | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JA01D | K22178220 |       | 1-  | B    | e1      |
| C 2068                                                        | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JA01D | K22178220 |       | 1-  | B    | e1      |
| C 2070                                                        | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JA01D | K22178220 | W/ CE | 1-  | B    | e1      |
| C 2071                                                        | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JA01D | K22178220 |       | 1-  | B    | e1      |
| C 2072                                                        | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JA01D | K22178220 |       | 1-  | B    | e1      |
| C 2073                                                        | CHIP CAP.    | 10pF    | 50V  | CH   | GRM1552C1H100JA01D | K22178212 | W/ CE | 1-  | B    | c1      |
| C 2074                                                        | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JA01D | K22178220 |       | 1-  | B    | e1      |
| C 2075                                                        | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JA01D | K22178220 |       | 1-  | B    | e1      |
| C 2076                                                        | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 | W/ CE | 1-  | B    | c1      |
| C 2077                                                        | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JA01D | K22178220 |       | 1-  | B    | e1      |
| C 2078                                                        | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JA01D | K22178220 |       | 1-  | B    | e1      |
| C 2080                                                        | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JA01D | K22178220 | W/ CE | 1-  | B    | d1      |
| C 2081                                                        | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JA01D | K22178220 |       | 1-  | B    | d1      |
| C 2082                                                        | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JA01D | K22178220 |       | 1-  | B    | d1      |
| C 2083                                                        | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 | W/ CE | 1-  | A    | E2      |
| C 2084                                                        | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JA01D | K22178220 |       | 1-  | B    | d1      |
| C 2085                                                        | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JA01D | K22178220 |       | 1-  | B    | d1      |
| C 2086                                                        | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JA01D | K22178220 | W/ CE | 1-  | B    | d1      |
| C 2087                                                        | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JA01D | K22178220 |       | 1-  | B    | d1      |
| C 2088                                                        | CHIP CAP.    | 22pF    | 50V  | CH   | GRM1552C1H220JA01D | K22178220 |       | 1-  | B    | d1      |
| C 2089                                                        | CHIP CAP.    | 0.1uF   | 10V  | B    | GRM155B11A104KA01D | K22108802 | W/ CE | 1-  | B    | d1      |
| C 2090                                                        | CHIP CAP.    | 0.001uF | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    | d1      |
| C 2092                                                        | CHIP CAP.    | 1uF     | 10V  | B    | GRM155B31A105KE15D | K22108809 |       | 1-  | B    | e3      |

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## Parts List

| REF    | DESCRIPTION    | VALUE    | V/W  | TOL. | MFR'S DESIG          | YAESU P/N | VERS. | LOT  | SIDE | LAY ADR |
|--------|----------------|----------|------|------|----------------------|-----------|-------|------|------|---------|
| C 2093 | CHIP CAP.      | 4.7uF    | 6.3V | X5R  | GRM188R60J475KE19D   | K22084808 | W/GPS | 1-   | B    | b3      |
| C 2094 | CHIP CAP.      | 0.01uF   | 25V  | B    | GRM155B11E103KA01D   | K22148834 |       | 1-   | B    | e3      |
| C 2095 | CHIP CAP.      | 0.01uF   | 25V  | B    | GRM155B11E103KA01D   | K22148834 |       | 1-   | B    | b3      |
| C 2096 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM155B11H102KA01D   | K22178809 |       | 1-   | B    | a1      |
| C 2097 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM155B11H102KA01D   | K22178809 |       | 1-   | B    | a2      |
| C 2098 | CHIP CAP.      | 1uF      | 16V  | B    | GRM155B31C105KA12D   | K22128817 |       | 1-   | B    | d1      |
| C 2099 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM155B11H102KA01D   | K22178809 |       | 1-   | B    | c1      |
| C 2100 | CHIP CAP.      | 0.1uF    | 10V  | B    | GRM155B11A104KA01D   | K22108802 |       | 1-   | B    | b3      |
| C 2103 | CHIP CAP.      | 0.01uF   | 25V  | B    | GRM155B11E103KA01D   | K22148834 |       | 1-   | B    | e3      |
| C 2104 | CHIP CAP.      | 1uF      | 16V  | B    | GRM155B31C105KA12D   | K22128817 |       | 1-   | B    | d1      |
| C 2106 | CHIP CAP.      | 0.01uF   | 25V  | B    | GRM155B11E103KA01D   | K22148834 |       | 1-   | B    | e3      |
| C 2108 | CHIP CAP.      | 10uF     | 10V  | B    | GRM21BB31A106KE18L   | K22100808 |       | 1-   | B    | e3      |
| C 2109 | CHIP CAP.      | 10uF     | 10V  | B    | GRM21BB31A106KE18L   | K22100808 |       | 1-   | B    | g2      |
| C 2110 | CHIP CAP.      | 100pF    | 50V  | CH   | GRM1552C1H101JA01D   | K22178236 |       | 1-   | B    | f1      |
| C 2111 | CHIP CAP.      | 0.1uF    | 10V  | B    | GRM155B11A104KA01D   | K22108802 |       | 1-   | A    | C2      |
| C 2112 | CHIP CAP.      | 0.1uF    | 10V  | B    | GRM155B11A104KA01D   | K22108802 |       | 1-   | A    | C2      |
| C 2113 | CHIP CAP.      | 22pF     | 50V  | CH   | GRM1552C1H220JA01D   | K22178220 |       | 1-   | B    | d1      |
| C 2114 | CHIP CAP.      | 22pF     | 50V  | CH   | GRM1552C1H220JA01D   | K22178220 |       | 1-   | B    | d1      |
| C 2115 | FILM CAP.      | 0.027uF  | 16V  |      | ECHU1C273JX5         | K57120041 |       | 1-   | B    | e2      |
| C 2116 | CHIP CAP.      | 0.1uF    | 10V  | B    | GRM155B11A104KA01D   | K22108802 |       | 1-   | B    | e2      |
| C 2117 | CHIP CAP.      | 0.1uF    | 10V  | B    | GRM155B11A104KA01D   | K22108802 |       | 1-   | B    | e2      |
| C 2118 | CHIP CAP.      | 0.1uF    | 10V  | B    | GRM155B11A104KA01D   | K22108802 |       | 1-   | B    | f2      |
| C 2119 | CHIP CAP.      | 0.0068uF | 25V  | B    | GRM155B11E682KA01D   | K22148803 |       | 1-   | B    | f2      |
| C 2120 | CHIP CAP.      | 0.0022uF | 50V  | B    | GRM155B11H222KA01D   | K22178813 |       | 1-   | B    | f2      |
| C 2121 | CHIP CAP.      | 0.01uF   | 25V  | B    | GRM155B11E103KA01D   | K22148834 |       | 1-   | B    | b1      |
| C 2122 | CHIP CAP.      | 0.01uF   | 25V  | B    | GRM155B11E103KA01D   | K22148834 |       | 1-   | B    | b1      |
| C 2123 | CHIP CAP.      | 10uF     | 10V  | B    | GRM21BB31A106KE18L   | K22100808 |       | 1-   | B    | d1      |
| C 2124 | CHIP CAP.      | 0.1uF    | 10V  | B    | GRM155B11A104KA01D   | K22108802 |       | 1-   | B    | b1      |
| D 2001 | SURGE ABSORBER |          |      |      | EZAEG3A50AV          | Q9000867  | W/GPS | 1-   | B    | f2      |
| D 2002 | LED            |          |      |      | STW1147ASE-12-TR     | G2071536  |       | 1-   | A    | D1      |
| D 2003 | LED            |          |      |      | STW1147ASE-12-TR     | G2071536  |       | 1-   | A    | C1      |
| D 2004 | LED            |          |      |      | 19-217/Y5C-AQ2R2/3T  | G2071532  |       | 1-   | A    | B3      |
| D 2005 | LED            |          |      |      | STW1147ASE-12-TR     | G2071536  |       | 1-   | A    | E1      |
| D 2006 | LED            |          |      |      | STW1147ASE-12-TR     | G2071536  |       | 1-   | A    | D1      |
| D 2007 | LED            |          |      |      | 19-217/Y5C-AQ2R2/3T  | G2071532  |       | 1-   | A    | C3      |
| D 2008 | LED            |          |      |      | 19-217/Y5C-AQ2R2/3T  | G2071532  |       | 1-   | A    | B2      |
| D 2009 | LED            |          |      |      | 19-217/Y5C-AQ2R2/3T  | G2071532  |       | 1-   | A    | D3      |
| D 2010 | LED            |          |      |      | 19-21/GHC-YP1Q2TY/3T | G2071588  |       | 1-   | A    | B1      |
| D 2011 | DIODE          |          |      |      | 1SS400 TE61          | G2070634  |       | 1-   | B    | e1      |
| D 2012 | DIODE          |          |      |      | 1SS400 TE61          | G2070634  |       | 1-   | B    | e1      |
| D 2013 | LED            |          |      |      | 19-217/Y5C-AQ2R2/3T  | G2071532  |       | 1-   | A    | C3      |
| D 2014 | LED            |          |      |      | 19-217/Y5C-AQ2R2/3T  | G2071532  |       | 1-   | A    | E3      |
| D 2015 | LED            |          |      |      | 19-217/Y5C-AQ2R2/3T  | G2071532  |       | 1-   | A    | E3      |
| D 2016 | DIODE          |          |      |      | RB751S-40TE61        | G2070850  | W/ CE | 1-   | B    | c1      |
| D 2018 | DIODE          |          |      |      | 1SS400 TE61          | G2070634  |       | 1-   | B    | d3      |
| D 2019 | DIODE          |          |      |      | IMN10 T108           | G2070078  |       | 1-   | B    | b3      |
| D 2020 | LED            |          |      |      | 19-217/Y5C-AQ2R2/3T  | G2071532  |       | 1-   | A    | F2      |
| D 2021 | LED            |          |      |      | 19-217/Y5C-AQ2R2/3T  | G2071532  |       | 1-   | A    | F2      |
| D 2022 | LED            |          |      |      | 19-217/Y5C-AQ2R2/3T  | G2071532  |       | 1-   | A    | F1      |
| D 2023 | LED            |          |      |      | 19-217/Y5C-AQ2R2/3T  | G2071532  |       | 1-   | A    | F1      |
| D 2024 | DIODE          |          |      |      | UD2V TE-17 5.6B      | G2071567  |       | 1-   | A    | C2      |
| DS2001 | LCD MODULE     |          |      |      | GY1005140392FSN6G01  | Q7000674  |       | 1-   |      |         |
| DS2001 | LCD MODULE     |          |      |      | HFG10256-00-PFDNS-R  | Q7000991  |       | 4-   |      |         |
| FB2001 | FERRITE BEADS  |          |      |      | BLM18PG121SN1D       | L9190178  |       | 1-12 | B    | f2      |
| FB2002 | FERRITE BEADS  |          |      |      | BLM18PG121SN1D       | L9190178  |       | 1-   | B    | f2      |
| FB2003 | FERRITE BEADS  |          |      |      | BLM18BD601SN1D       | L9190143  |       | 1-   | B    | g3      |
| FB2004 | FERRITE BEADS  |          |      |      | BLM18BD601SN1D       | L9190143  |       | 1-   | B    | g3      |
| FB2005 | FERRITE BEADS  |          |      |      | BLM18BD601SN1D       | L9190143  |       | 1-   | B    | f3      |
| FB2006 | FERRITE BEADS  |          |      |      | BLM18BD601SN1D       | L9190143  |       | 1-   | B    | f3      |
| FB2007 | FERRITE BEADS  |          |      |      | BLM18BD601SN1D       | L9190143  |       | 1-   | B    | f3      |
| FB2008 | FERRITE BEADS  |          |      |      | BLM18BD601SN1D       | L9190143  |       | 1-   | B    | d3      |
| FB2009 | FERRITE BEADS  |          |      |      | BLM18BD601SN1D       | L9190143  |       | 1-   | B    | d3      |
| FB2010 | FERRITE BEADS  |          |      |      | BLM18BD601SN1D       | L9190143  |       | 1-   | B    | d3      |
| FB2011 | FERRITE BEADS  |          |      |      | BLM18BD601SN1D       | L9190143  |       | 1-   | B    | d3      |
| FB2013 | FERRITE BEADS  |          |      |      | BLM18PG121SN1D       | L9190178  |       | 13-  |      |         |
| J 2001 | CONNECTOR      |          |      |      | CFP120W11            | P1091704  | W/GPS | 1-   | B    | f2      |
| J 2003 | CONNECTOR      |          |      |      | A2001AWV-05-F2MA-R-X | P0091656  |       | 1-   | B    | f3      |
| J 2004 | CONNECTOR      |          |      |      | AYF533035            | P1091490  |       | 1-   | B    | e1      |
| J 2005 | CONNECTOR      |          |      |      | AYF531235            | P1091648  |       | 1-   | B    | d1      |
| J 2006 | CONNECTOR      |          |      |      | A2001AWV-04-F2MA-R-X | P0091663  |       | 1-   | B    | e3      |
| J 2007 | CONTACT        |          |      |      | B5G-25X40X041        | S5000448  |       | 1-   | B    | d2      |
| J 2008 | CONTACT        |          |      |      | B5G-25X40X041        | S5000448  |       | 1-   | B    | b2      |
| MD2001 | GPS MODULE     |          |      |      | MC-1010-YA           | Q7000670B | W/GPS | 1-   | B    | f1      |
| Q 2001 | TRANSISTOR     |          |      |      | 2SC4617 TL R         | G3346178R |       | 1-   | B    | b1      |
| Q 2002 | TRANSISTOR     |          |      |      | 2SC4617 TL R         | G3346178R |       | 1-   | B    | e1      |

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## Parts List

| REF    | DESCRIPTION   | VALUE | V/W   | TOL. | MFR'S DESIG       | YAESU P/N | VERS.  | LOT | SIDE | LAY ADR |
|--------|---------------|-------|-------|------|-------------------|-----------|--------|-----|------|---------|
| Q 2003 | IC            |       |       |      | S-1222D33-U5T1U   | G1095654  | W/GPS  | 1-  | B    | e2      |
| Q 2004 | TRANSISTOR    |       |       |      | 2SB1132 T100 R    | G3211327R |        | 1-  | B    | a2      |
| Q 2005 | IC            |       |       |      | MAX2674EWT+T      | G1095572  | W/GPS  | 1-  | B    | f1      |
| Q 2006 | TRANSISTOR    |       |       |      | UMD5N TR          | G3070343  |        | 1-  | B    | f2      |
| Q 2007 | TRANSISTOR    |       |       |      | 2SC4617 TL R      | G3346178R | W/GPS  | 1-  | B    | a2      |
| Q 2008 | IC            |       |       |      | TAR5S33U(TE85L.F) | G1094549  |        | 1-  | B    | f1      |
| Q 2009 | IC            |       |       |      | R5F52318ADFP      | G1095666  | W/GPS  | 1-  | B    | c2      |
| Q 2011 | IC            |       |       |      | 74VHCT14AFT(BJ)   | G1095166  |        | 1-  | B    | c3      |
| Q 2012 | TRANSISTOR    |       |       |      | UMD6N TR          | G3070215  | W/GPS  | 1-  | B    | d3      |
| Q 2013 | PHOTO COUPLER |       |       |      | ACPL-M50L-500E    | G0090040  |        | 1-  | B    | d3      |
| Q 2014 | TRANSISTOR    |       |       |      | UMD6N TR          | G3070215  | W/GPS  | 1-  | B    | d3      |
| Q 2015 | IC            |       |       |      | TC7S32FU(TE85R.F) | G1091529  |        | 1-  | B    | b3      |
| Q 2016 | IC            |       |       |      | TAR5S50U(TE85L.F) | G1094097  | W/GPS  | 1-  | B    | e3      |
| Q 2017 | IC            |       |       |      | BR24L64F-WE2      | G1093876  |        | 1-  | B    | b3      |
| Q 2018 | IC            |       |       |      | TC7W74FU(TE12L,F) | G1091788  | W/GPS  | 1-  | B    | b3      |
| Q 2019 | IC            |       |       |      | TC7W53FU(TE12L_F) | G1094158  |        | 1-  | A    | C2      |
| Q 2020 | IC            |       |       |      | NJM2211M-TE1      | G1092943  | W/GPS  | 1-  | B    | f2      |
| Q 2021 | TRANSISTOR    |       |       |      | DTC143ZE TL       | G3070102  |        | 1-  | A    | C2      |
| Q 2022 | TRANSISTOR    |       |       |      | UMD5N TR          | G3070343  |        | 1-  | B    | a1      |
| R 2001 | CHIP RES.     | 0     | 1/16W | 5%   | RMC1/16S JPTH     | J24189070 | W/GPS  | 1-  | B    | f2      |
| R 2002 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |        | 1-  | B    | a1      |
| R 2003 | CHIP RES.     | 470   | 1/16W | 1%   | RMC1/16SK471FTH   | J24189512 | W/GPS  | 1-  | B    | f3      |
| R 2004 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |        | 1-  | B    | a1      |
| R 2005 | CHIP RES.     | 1k    | 1/16W | 1%   | RMC1/16SK102FTH   | J24189487 | W/GPS  | 1-  | B    | f2      |
| R 2006 | CHIP RES.     | 22    | 1/16W | 5%   | RMC1/16S 220JTH   | J24189005 |        | 1-  | B    | b1      |
| R 2007 | CHIP RES.     | 22    | 1/16W | 5%   | RMC1/16S 220JTH   | J24189005 | W/GPS  | 1-  | B    | b1      |
| R 2008 | CHIP RES.     | 150k  | 1/16W | 1%   | RMC1/16SK154FTH   | J24189531 |        | 1-  | B    | b1      |
| R 2009 | CHIP RES.     | 470   | 1/16W | 1%   | RMC1/16SK471FTH   | J24189512 | W/GPS  | 1-  | B    | a2      |
| R 2010 | CHIP RES.     | 1k    | 1/16W | 1%   | RMC1/16SK102FTH   | J24189487 |        | 1-  | B    | f2      |
| R 2011 | CHIP RES.     | 120   | 1/16W | 1%   | RMC1/16SK121FTH   | J24189505 | W/GPS  | 1-  | B    | f1      |
| R 2012 | CHIP RES.     | 2.2M  | 1/16W | 1%   | RMC1/16S225FTH    | J24189545 |        | 1-  | B    | b1      |
| R 2013 | CHIP RES.     | 470   | 1/16W | 1%   | RMC1/16SK471FTH   | J24189512 | W/GPS  | 1-  | B    | a2      |
| R 2014 | CHIP RES.     | 680   | 1/16W | 1%   | RMC1/16SK681FTH   | J24189514 |        | 1-  | B    | a2      |
| R 2015 | CHIP RES.     | 330   | 1/16W | 1%   | RMC1/16SK331FTH   | J24189510 | W/GPS  | 1-  | B    | a2      |
| R 2016 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |        | 1-  | B    | b1      |
| R 2017 | CHIP RES.     | 18k   | 1/16W | 1%   | RMC1/16SK183FTH   | J24189523 | W/GPS  | 1-  | B    | b1      |
| R 2018 | CHIP RES.     | 470   | 1/16W | 1%   | RMC1/16SK471FTH   | J24189512 |        | 1-  | B    | a2      |
| R 2019 | CHIP RES.     | 33k   | 1/16W | 1%   | RMC1/16SK333FTH   | J24189494 | W/GPS  | 1-  | B    | b1      |
| R 2020 | CHIP RES.     | 2.2k  | 1/16W | 1%   | RMC1/16SK222FTH   | J24189497 |        | 1-  | B    | a2      |
| R 2021 | CHIP RES.     | 470k  | 1/16W | 1%   | RMC1/16SK474FTH   | J24189537 | W/GPS  | 1-  | B    | a2      |
| R 2022 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |        | 1-  | B    | c2      |
| R 2023 | CHIP RES.     | 22    | 1/4W  | 5%   | RMC1/4 220JATP    | J24245220 | W/GPS  | 1-  | B    | a2      |
| R 2024 | CHIP RES.     | 100k  | 1/16W | 1%   | RMC1/16SK104FTH   | J24189529 |        | 1-  | B    | d1      |
| R 2025 | CHIP RES.     | 22k   | 1/16W | 1%   | RMC1/16SK223FTH   | J24189492 | W/GPS  | 1-  | B    | d1      |
| R 2026 | CHIP RES.     | 100k  | 1/16W | 1%   | RMC1/16SK104FTH   | J24189529 |        | 1-  | B    | d2      |
| R 2027 | CHIP RES.     | 100k  | 1/16W | 1%   | RMC1/16SK104FTH   | J24189529 | W/GPS  | 1-  | B    | d2      |
| R 2028 | CHIP RES.     | 10k   | 1/16W | 1%   | RMC1/16SK103FTH   | J24189489 |        | 1-  | B    | f2      |
| R 2029 | CHIP RES.     | 2.2k  | 1/16W | 1%   | RMC1/16SK222FTH   | J24189497 | W/GPS  | 1-  | B    | f2      |
| R 2030 | CHIP RES.     | 6.8k  | 1/16W | 1%   | RMC1/16SK682FTH   | J24189521 |        | 1-  | B    | c1      |
| R 2031 | CHIP RES.     | 10k   | 1/16W | 1%   | RMC1/16SK103FTH   | J24189489 | W/GPS  | 1-  | B    | f2      |
| R 2032 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |        | 1-  | B    | c2      |
| R 2033 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 | W/GPS  | 1-  | B    | d2      |
| R 2034 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |        | 1-  | B    | c2      |
| R 2035 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 | W/GPS  | 1-  | B    | d2      |
| R 2036 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |        | 1-  | B    | c2      |
| R 2037 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 | W/GPS  | 1-  | B    | d2      |
| R 2038 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |        | 1-  | B    | c2      |
| R 2039 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 | W/GPS  | 1-  | B    | d2      |
| R 2040 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |        | 1-  | B    | c2      |
| R 2041 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 | W/GPS  | 1-  | B    | d2      |
| R 2042 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |        | 1-  | B    | c2      |
| R 2043 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 | W/GPS  | 1-  | B    | d2      |
| R 2044 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |        | 1-  | B    | c2      |
| R 2045 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 | W/GPS  | 1-  | B    | b1      |
| R 2046 | CHIP RES.     | 10k   | 1/16W | 1%   | RMC1/16SK103FTH   | J24189489 |        | 1-  | B    | f2      |
| R 2047 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 | W/GPS  | 1-  | B    | d2      |
| R 2048 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |        | 1-  | B    | c2      |
| R 2049 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 | W/GPS  | 1-  | B    | c1      |
| R 2050 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |        | 1-  | B    | d2      |
| R 2051 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 | W/GPS  | 1-  | B    | c2      |
| R 2052 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |        | 1-  | B    | c1      |
| R 2053 | CHIP RES.     | 10k   | 1/16W | 1%   | RMC1/16SK103FTH   | J24189489 | W/O CE | 1-  | B    | c1      |
| R 2054 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |        | 1-  | B    | d2      |
| R 2055 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 | W/O CE | 1-  | B    | c2      |
| R 2056 | CHIP RES.     | 100   | 1/16W | 1%   | RMC1/16SK101FTH   | J24189504 |        | 1-  | B    | d2      |

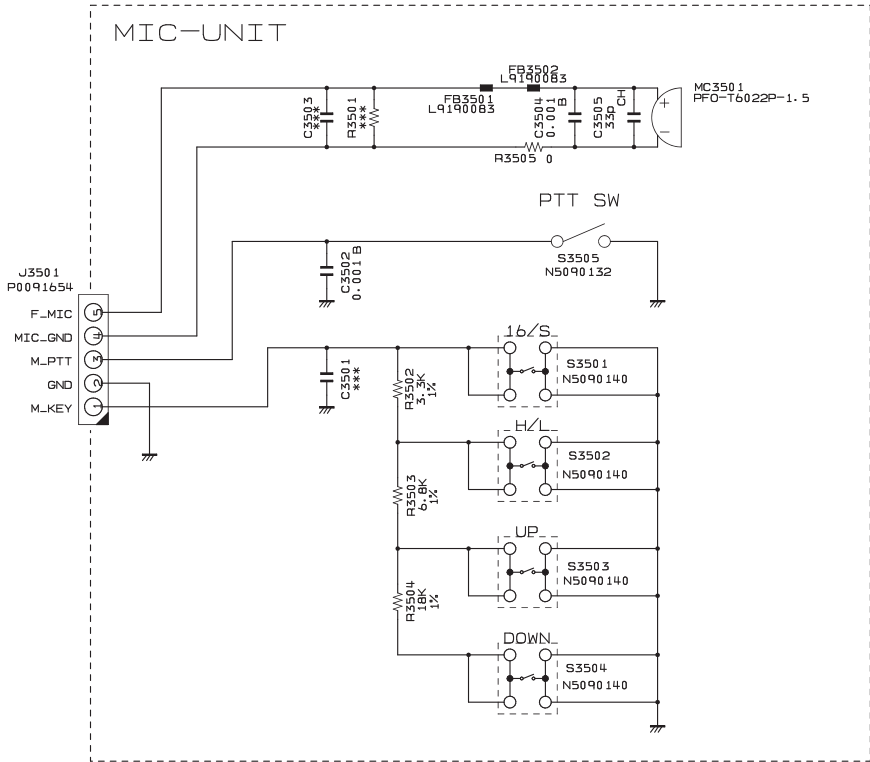
# CNTL Unit

## Parts List

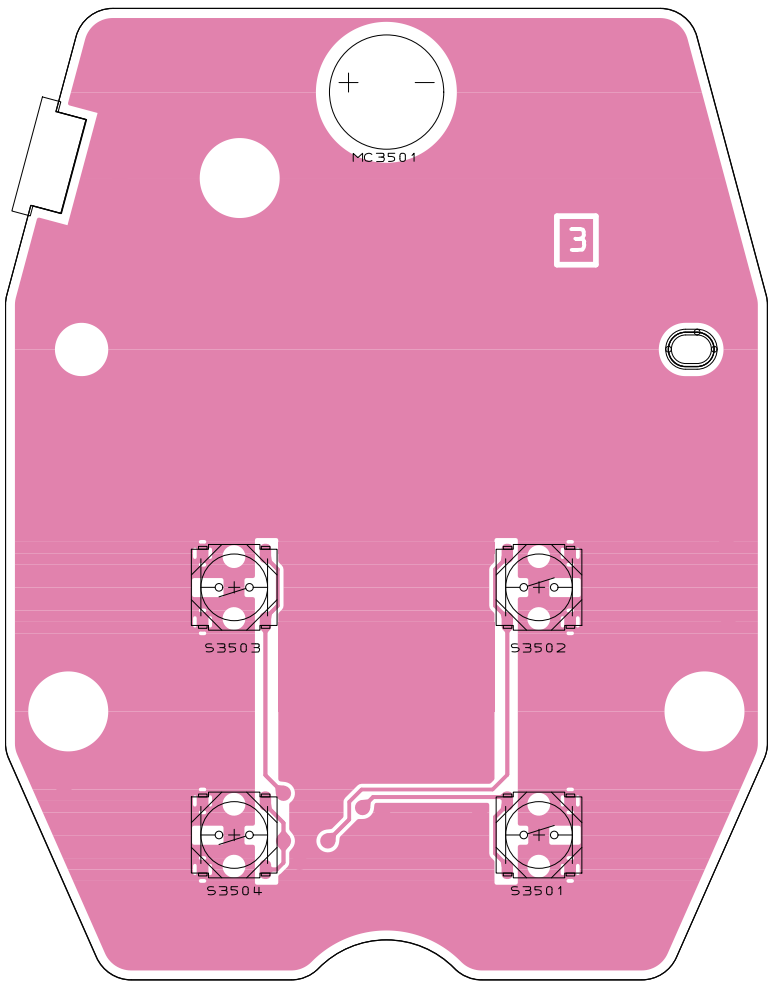
| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | YAESU P/N | VERS.                              | LOT | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|------------------------------------|-----|------|---------|
| R 2057 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 | EUROPE<br>EXPORT<br>W/GPS<br>W/ CE | 1-  | B    | c1      |
| R 2058 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | c2      |
| R 2059 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | d2      |
| R 2060 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | c1      |
| R 2061 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | c2      |
| R 2063 | CHIP RES.   | 220   | 1/16W | 1%   | RMC1/16SK221FTH | J24189508 |                                    | 1-  | B    | c1      |
| R 2064 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | c1      |
| R 2065 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16SK103FTH | J24189489 |                                    | 1-  | B    | c1      |
| R 2066 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 |                                    | 1-  | B    | c1      |
| R 2067 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2068 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | c1      |
| R 2069 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2070 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | c1      |
| R 2071 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2072 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | c1      |
| R 2073 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2074 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | c1      |
| R 2075 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2076 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b1      |
| R 2077 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2078 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b1      |
| R 2079 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16SK103FTH | J24189489 |                                    | 1-  | B    | b1      |
| R 2081 | CHIP RES.   | 33k   | 1/16W | 1%   | RMC1/16SK333FTH | J24189494 |                                    | 1-  | B    | c3      |
| R 2082 | CHIP RES.   | 18k   | 1/16W | 1%   | RMC1/16SK183FTH | J24189523 |                                    | 1-  | B    | c3      |
| R 2083 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |                                    | 1-  | B    | c3      |
| R 2084 | CHIP RES.   | 47k   | 1/16W | 1%   | RMC1/16SK473FTH | J24189525 |                                    | 1-  | B    | c3      |
| R 2085 | CHIP RES.   | 4.7k  | 1/16W | 1%   | RMC1/16SK472FTH | J24189488 |                                    | 1-  | B    | b3      |
| R 2086 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16SK103FTH | J24189489 |                                    | 1-  | B    | c1      |
| R 2087 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2088 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2089 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2090 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2091 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2092 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2093 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 |                                    | 1-  | B    | b2      |
| R 2093 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 |                                    | 1-  | B    | b2      |
| R 2095 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 |                                    | 1-  | B    | b2      |
| R 2096 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 |                                    | 1-  | B    | b2      |
| R 2099 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2100 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2101 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2102 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2103 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2104 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2105 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2106 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | b2      |
| R 2107 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16SK103FTH | J24189489 |                                    | 1-  | B    | b3      |
| R 2108 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |                                    | 1-  | B    | d3      |
| R 2109 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |                                    | 1-  | B    | d3      |
| R 2110 | CHIP RES.   | 120   | 1/4W  | 5%   | RMC1/4 121JATP  | J24245121 |                                    | 1-  | B    | c3      |
| R 2111 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 |                                    | 1-  | B    | e3      |
| R 2112 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |                                    | 1-  | B    | d1      |
| R 2113 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |                                    | 1-  | B    | d1      |
| R 2114 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |                                    | 1-  | B    | d1      |
| R 2115 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |                                    | 1-  | B    | d1      |
| R 2116 | CHIP RES.   | 1k    | 1/16W | 1%   | RMC1/16SK102FTH | J24189487 |                                    | 1-  | B    | d1      |
| R 2117 | CHIP RES.   | 10    | 1/16W | 5%   | RMC1/16S 100JTH | J24189001 |                                    | 1-  | B    | b3      |
| R 2118 | CHIP RES.   | 120   | 1/4W  | 5%   | RMC1/4 121JATP  | J24245121 |                                    | 1-  | B    | d3      |
| R 2119 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16SK103FTH | J24189489 |                                    | 1-  | B    | c1      |
| R 2120 | CHIP RES.   | 820   | 1/4W  | 5%   | RMC1/4 821JATP  | J24245821 |                                    | 1-  | B    | d3      |
| R 2121 | CHIP RES.   | 4.7k  | 1/16W | 1%   | RMC1/16SK472FTH | J24189488 |                                    | 1-  | B    | b3      |
| R 2122 | CHIP RES.   | 4.7k  | 1/16W | 1%   | RMC1/16SK472FTH | J24189488 |                                    | 1-  | B    | b3      |
| R 2124 | CHIP RES.   | 3.3k  | 1/16W | 1%   | RMC1/16SK332FTH | J24189518 |                                    | 1-  | B    | g2      |
| R 2125 | CHIP RES.   | 2.7k  | 1/16W | 1%   | RMC1/16SK272FTH | J24189517 |                                    | 1-  | B    | g2      |
| R 2127 | CHIP RES.   | 220   | 1/16W | 1%   | RMC1/16SK221FTH | J24189508 |                                    | 1-  | A    | C2      |
| R 2128 | CHIP RES.   | 470   | 1/16W | 1%   | RMC1/16SK471FTH | J24189512 |                                    | 1-  | B    | a2      |
| R 2129 | CHIP RES.   | 470   | 1/16W | 1%   | RMC1/16SK471FTH | J24189512 |                                    | 1-  | B    | a2      |
| R 2130 | CHIP RES.   | 470   | 1/16W | 1%   | RMC1/16SK471FTH | J24189512 |                                    | 1-  | B    | a2      |
| R 2131 | CHIP RES.   | 100   | 1/16W | 1%   | RMC1/16SK101FTH | J24189504 |                                    | 1-  | B    | e2      |
| R 2132 | CHIP RES.   | 18k   | 1/16W | 1%   | RMC1/16SK183FTH | J24189523 |                                    | 1-  | B    | e2      |
| R 2133 | CHIP RES.   | 2.7k  | 1/16W | 1%   | RMC1/16SK272FTH | J24189517 |                                    | 1-  | B    | e2      |
| R 2134 | CHIP RES.   | 470k  | 1/16W | 1%   | RMC1/16SK474FTH | J24189537 |                                    | 1-  | B    | e2      |
| R 2135 | CHIP RES.   | 56k   | 1/16W | 1%   | RMC1/16SK563FTH | J24189526 |                                    | 1-  | B    | f2      |
| R 2136 | CHIP RES.   | 100k  | 1/16W | 1%   | RMC1/16SK104FTH | J24189529 |                                    | 1-  | B    | f2      |
| R 2137 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16SK103FTH | J24189489 |                                    | 1-  | B    | f2      |

| REF    | DESCRIPTION  | VALUE     | V/W   | TOL. | MFR'S DESIG           | YAESU P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|--------------|-----------|-------|------|-----------------------|-----------|-------|-----|------|---------|
| R 2138 | CHIP RES.    | 470k      | 1/16W | 1%   | RMC1/16SK474FTH       | J24189537 |       | 1-  | B    | f2      |
| R 2139 | CHIP RES.    | 100       | 1/16W | 1%   | RMC1/16SK101FTH       | J24189504 |       | 1-  | B    | c2      |
| R 2140 | CHIP RES.    | 100       | 1/16W | 1%   | RMC1/16SK101FTH       | J24189504 |       | 1-  | B    | c2      |
| R 2141 | CHIP RES.    | 33k       | 1/16W | 1%   | RMC1/16SK333FTH       | J24189494 |       | 1-  | A    | C2      |
| R 2142 | CHIP RES.    | 330       | 1/16W | 1%   | RMC1/16SK331FTH       | J24189510 |       | 1-  | B    | d1      |
| R 2143 | CHIP RES.    | 120       | 1/16W | 1%   | RMC1/16SK121FTH       | J24189505 |       | 1-  | B    | e1      |
| R 2144 | CHIP RES.    | 1k        | 1/16W | 1%   | RMC1/16SK102FTH       | J24189487 |       | 1-  | B    | e1      |
| S 2001 | TACT SWITCH  |           |       |      | SKRMAAE010            | N5090140  |       | 1-  | A    | A3      |
| S 2002 | TACT SWITCH  |           |       |      | SKRMAAE010            | N5090140  |       | 1-  | A    | B2      |
| S 2003 | TACT SWITCH  |           |       |      | SKRMAAE010            | N5090140  |       | 1-  | A    | B2      |
| S 2004 | TACT SWITCH  |           |       |      | SKRMAAE010            | N5090140  |       | 1-  | A    | C3      |
| S 2005 | TACT SWITCH  |           |       |      | SKRMAAE010            | N5090140  |       | 1-  | A    | F2      |
| S 2006 | TACT SWITCH  |           |       |      | SKRMAAE010            | N5090140  |       | 1-  | A    | C3      |
| S 2007 | TACT SWITCH  |           |       |      | SKRMAAE010            | N5090140  |       | 1-  | A    | F2      |
| S 2008 | TACT SWITCH  |           |       |      | SKRMAAE010            | N5090140  |       | 1-  | A    | D3      |
| S 2009 | TACT SWITCH  |           |       |      | SKRMAAE010            | N5090140  |       | 1-  | A    | E3      |
| S 2010 | TACT SWITCH  |           |       |      | SKRMAAE010            | N5090140  |       | 1-  | A    | F1      |
| S 2011 | TACT SWITCH  |           |       |      | SKRMAAE010            | N5090140  |       | 1-  | A    | F1      |
| S 2012 | TACT SWITCH  |           |       |      | SKRMAAE010            | N5090140  |       | 1-  | A    | F3      |
| TH2001 | THERMISTOR   |           |       |      | NCP18XV103J03RB       | G9090179  |       | 1-  | B    | c1      |
| VR2001 | POT.         | 20k       |       |      | RP090110N0AB-H01-1851 | J60800348 |       | 1-  | A    | G1      |
| VR2001 | POT.         | 20k       |       |      | RP09110N0AB-H01-1972  | J60800355 |       | 4-  | A    | G1      |
| VR2002 | POT.         | 20k       |       |      | RP090110N0AB-H01-1851 | J60800348 |       | 1-  | A    | G2      |
| VR2002 | POT.         | 20k       |       |      | RP09110N0AB-H01-1972  | J60800355 |       | 4-  | A    | G2      |
| X 2001 | XTAL SC-32S  | 32.768kHz |       |      | SC-32S 32.768KHZ      | H0103464  | W/ CE | 1-  | B    | c1      |
| X 2002 | XTAL DSX321G | 12MHz     |       |      | DSX321G 12MHZ AA0V    | H0103466  |       | 1-  | B    | c1      |

## Circuit Diagram

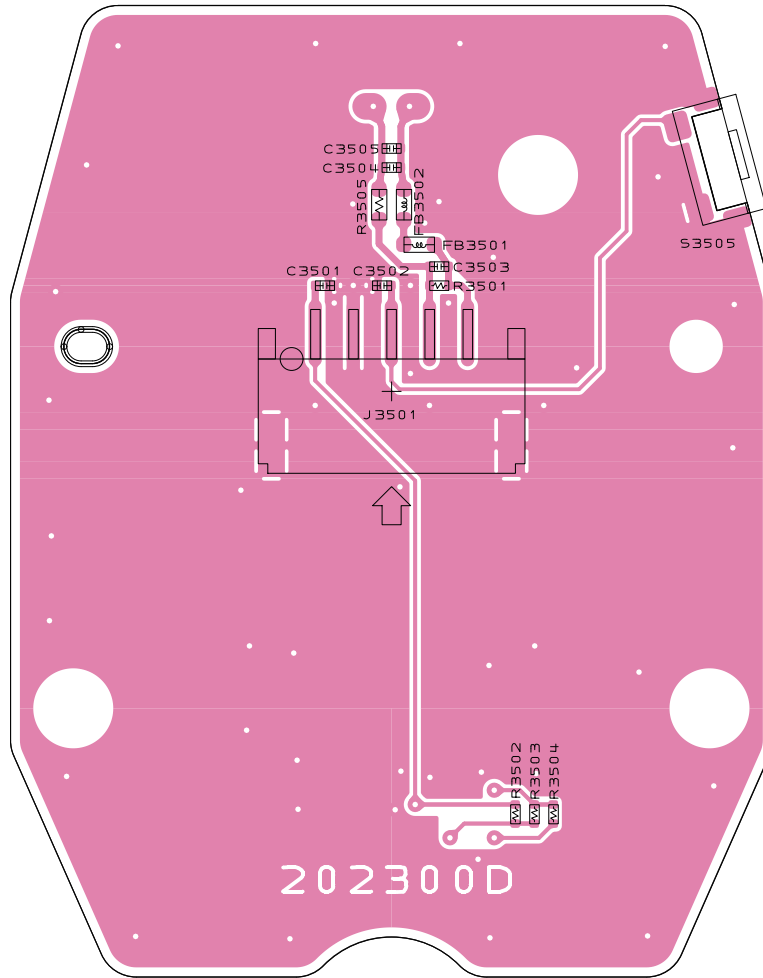


### Parts Layout (Side A)



# MIC Unit

## Parts Layout (Side B)



## Parts List

| REF    | DESCRIPTION        | VALUE   | V/W   | TOL. | MFR'S DESIG        | YAESU P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|--------------------|---------|-------|------|--------------------|-----------|-------|-----|------|---------|
| C 3502 | CHIP CAP.          | 0.001uF | 50V   | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    |         |
| C 3504 | CHIP CAP.          | 0.001uF | 50V   | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | B    |         |
| C 3505 | CHIP CAP.          | 33pF    | 50V   | CH   | GRM1552C1H330JA01D | K22178224 |       | 1-  | B    |         |
| FB3501 | FERRITE BEADS      |         |       |      | BK1608HS601-T      | L9190083  |       | 1   | B    |         |
| FB3501 | CHIP RES.          | 0       | 1/16W | 5%   | RMC1/16 000JATP    | J24185000 |       | 2-  | B    |         |
| FB3502 | FERRITE BEADS      |         |       |      | BK1608HS601-T      | L9190083  |       | 1-  | B    |         |
| J 3501 | CONNECTOR          |         |       |      | A2001AWR-05-F2MA-R | P0091654  |       | 1-  | B    |         |
| MC3501 | MICROPHONE ELEMENT |         |       |      | PFO-T6022P-1.5     | M3290060  |       | 1-  | A    |         |
| R 3502 | CHIP RES.          | 3.3k    | 1/16W | 1%   | RMC1/16SK332FTH    | J24189518 |       | 1-  | B    |         |
| R 3503 | CHIP RES.          | 6.8k    | 1/16W | 1%   | RMC1/16SK682FTH    | J24189521 |       | 1-  | B    |         |
| R 3504 | CHIP RES.          | 18k     | 1/16W | 1%   | RMC1/16SK183FTH    | J24189523 |       | 1-  | B    |         |
| R 3505 | CHIP RES.          | 0       | 1/16W | 5%   | RMC1/16 000JATP    | J24185000 |       | 1   | B    |         |
| R 3505 | FERRITE BEADS      |         |       |      | BK1608HS601-T      | L9190083  |       | 2-  | B    |         |
| S 3501 | TACT SWITCH        |         |       |      | SKRMAAE010         | N5090140  |       | 1-  | A    |         |
| S 3502 | TACT SWITCH        |         |       |      | SKRMAAE010         | N5090140  |       | 1-  | A    |         |
| S 3503 | TACT SWITCH        |         |       |      | SKRMAAE010         | N5090140  |       | 1-  | A    |         |
| S 3504 | TACT SWITCH        |         |       |      | SKRMAAE010         | N5090140  |       | 1-  | A    |         |
| S 3505 | TACT SWITCH        |         |       |      | EVQP4403M          | N5090132  |       | 1-  | B    |         |
|        | MIC HOLDER RUBBER  |         |       |      | (D6x2.4)           | RA6221400 |       | 1-  |      |         |

## ***STANDARD HORIZON***

*Nothing takes to water like Standard Horizon*

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