



## FM TRANSCEIVER

# FT-1807M

### Technical Supplement

©2006 VERTEX STANDARD CO., LTD.

EH023U90A

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## Introduction

This manual provides technical information necessary for servicing the FT-1807M FM 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.

Two PCB layout diagrams are provided for each double-sided circuit board in the Transceiver. Each side of is referred to by the type of the majority of components installed on that side (“leaded” or “chip-only”). In most cases one side has only chip components, and the other has either a mixture of both chip and leaded components (trimmers, coils, electrolytic capacitors, ICs, etc.), or leaded components only.

While we believe the technical information in this manual to be correct, VERTEX STANDARD 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.

### 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.

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# Specifications

## General

|                                       |  |
|---------------------------------------|--|
| <b>Frequency Range:</b>               | Tx 400 - 470 MHz<br>Rx 400 - 470 MHz   |
| <b>Channel Step:</b>                  | 5/10/12.5/15/20/25/50/100 kHz  |
| <b>Standard Repeater Shift:</b>       | ±600 kHz   |
| <b>Frequency Stability:</b>           | Better than ±5 ppm (-20 °C to +60 °C)  |
| <b>Modes of Emission:</b>             | F2D/F2A/F3E  |
| <b>Antenna Impedance:</b>             | 50 Ohms, unbalanced  |
| <b>Supply voltage:</b>                | 13.8 V DC ±15%, negative ground  |
| <b>Current Consumption (typical):</b> | Rx: less than 0.7 A, less than 0.3 A (squelched)<br>Tx: 10 A (50 W) /7 A (25 W) /5 A (10 W) /4 A (5 W) |
| <b>Operating Temperature Range:</b>   | -20° C to +60° C   |
| <b>Case Size (WxHxD):</b>             | 140 x 40 x 146 mm (w/o knobs)  |
| <b>Weight (Approx.):</b>              | 1.2 kg   |

## Transmitter

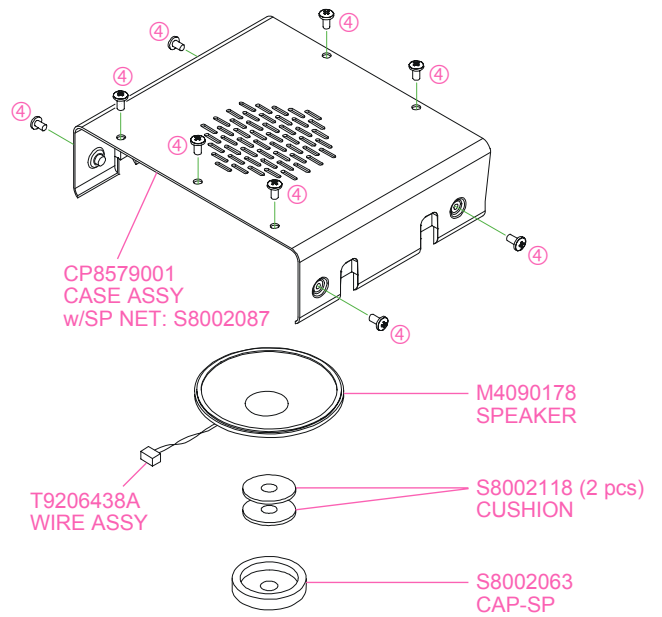
|                              |                                 |
|------------------------------|---------------------------------|
| <b>Output Power:</b>         | 50 W/25 W/10 W/5 W              |
| <b>Modulation Type:</b>      | Variable Reactance              |
| <b>Maximum Deviation:</b>    | ±5 kHz (Wide)/±2.5 kHz (Narrow) |
| <b>Spurious Radiation:</b>   | Better than -60 dB              |
| <b>Microphone Impedance:</b> | 2 k-Ohms                        |

## Receiver

|                                      |   |
|--------------------------------------|---|
| <b>Circuit Type:</b>                 | Double Conversion Superheterodyne             |
| <b>I<sub>f</sub>s:</b>               | 47.25 MHz & 450 kHz                           |
| <b>Sensitivity (for 12dB SINAD):</b> | Better than 0.2 µV                            |
| <b>Selectivity (-6/-60dB):</b>       | 12 kHz/28 kHz (Wide)<br>9 kHz/22 kHz (Narrow) |
| <b>IF Rejection:</b>                 | Better than 70 dB                             |
| <b>Image Rejection:</b>              | Better than 70 dB                             |
| <b>Maximum AF Output:</b>            | 3 W into 4 Ohms @10 % THD                     |

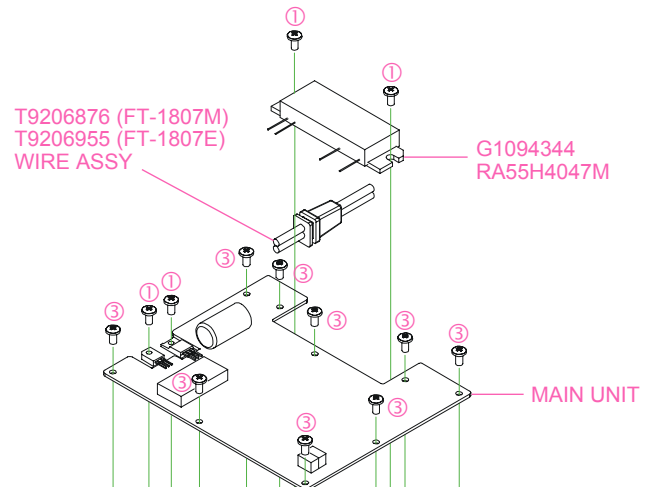
*Specifications subject to change without notice or obligation. Specifications guaranteed only within Amateur band. Frequency ranges and functions will vary according to transceiver version; check with your dealer.*

# Exploded View & Miscellaneous Parts

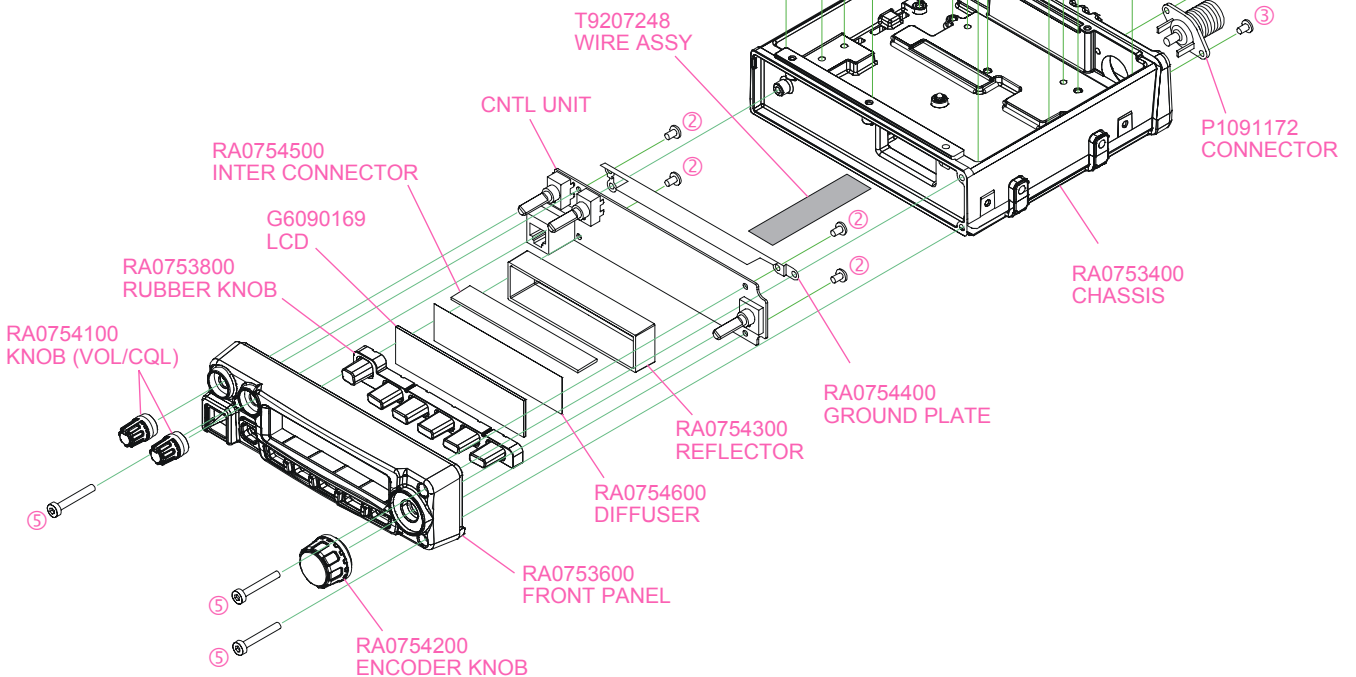


| ACCESSORIES |                             |
|-------------|-----------------------------|
| VXSTD P/N   | DESCRIPTION                 |
| AAA43X001   | MICROPHONE (MH-48A6J)       |
| T9021715    | DC CABLE (FT-1807M)         |
| T9022815    | DC CABLE (FT-1807E)         |
| Q0000081    | SPARE FUSE (15 A: FT-1807M) |
| Q0000075    | SPARE FUSE (15 A: FT-1807E) |
| D6000055    | BRACKET (MMB-36)            |
| CB0297000   | SCREW SET                   |

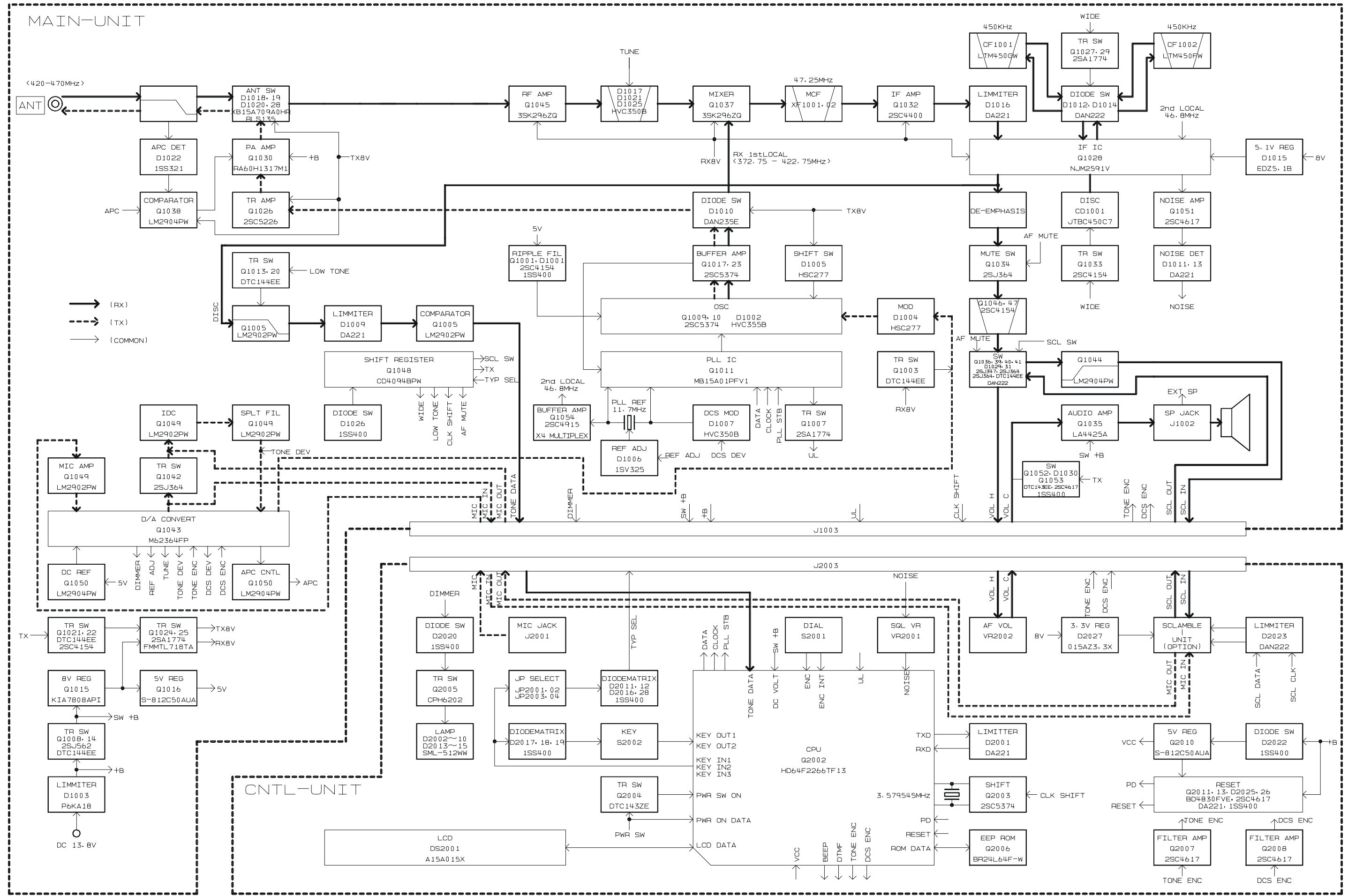
| REF. | VXSTD P/N | DESCRIPTION             | QTY. |
|------|-----------|-------------------------|------|
| ①    | U03310002 | SEMS SCREW ASM3X10NI    | 4    |
| ②    | U24112002 | TAPTITE SCREW M2X12NI   | 4    |
| ③    | U24308002 | TAPTITE SCREW M3X8NI    | 11   |
| ④    | U36206007 | TAPTITE SCREW M2.6X6B   | 9    |
| ⑤    | U51320007 | HEXA SOCKET BOLT M3X20B | 3    |



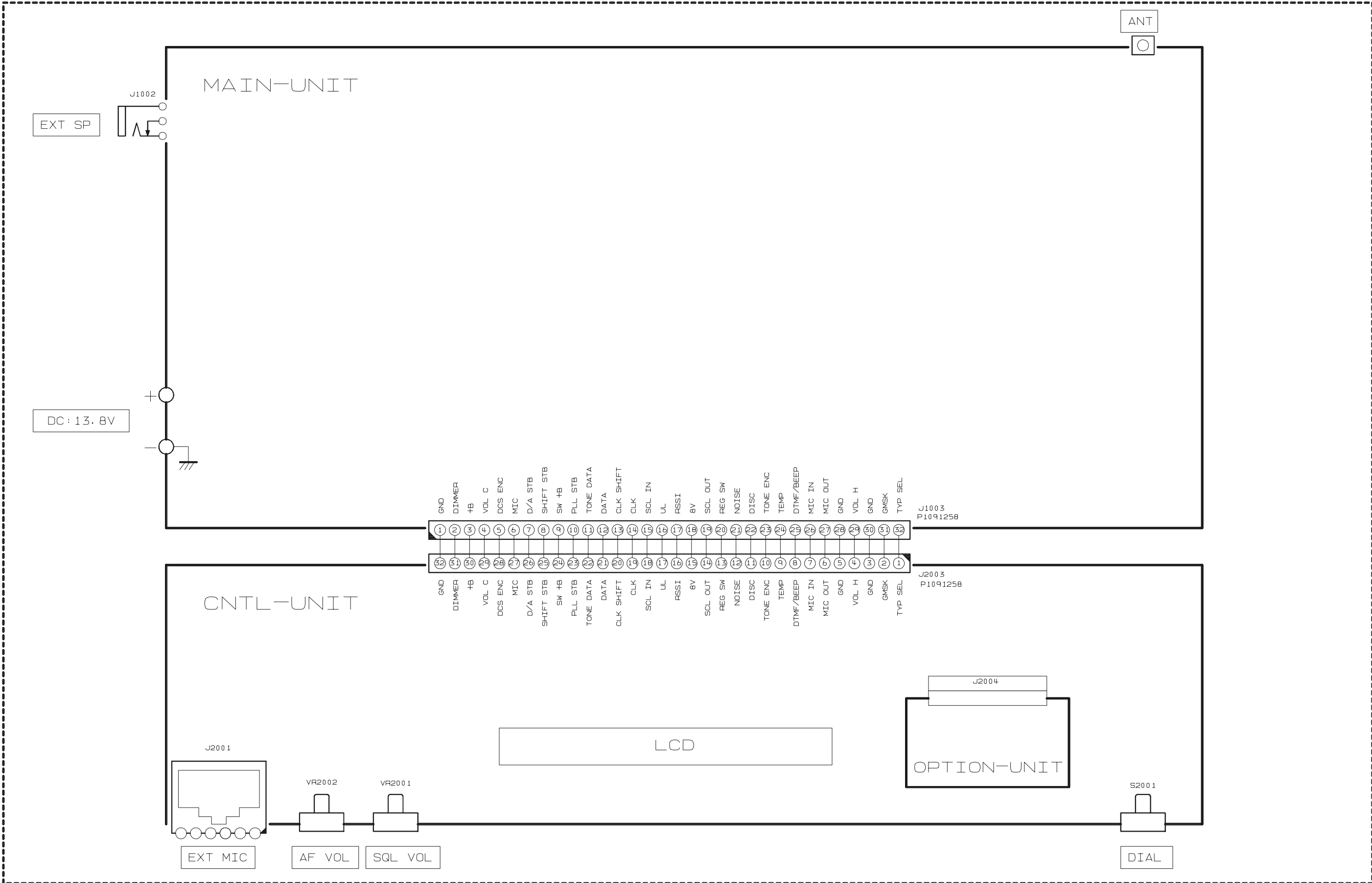
*Non-designated parts are available only as part of a designated assembly.*



*Note*



# Connection Diagram



## Receive Signal Path

Incoming RF signal from the antenna jack is delivered to the Main Unit and passed through the low-pass filter network consisting of capacitors C1213, C1236, C1239, & C1238 and coils L1017, L1018, & L1019, antenna switching diode **D1020** and **D1028** (both **RLS135**), delivery to the RF amplifier **Q1045** (**3SK296ZQ**). The amplified RF signal is passed through the another varactor-tuned band-pass filter consisting of capacitors C1198, C1199, C1200, C1290, C1218, C1249, C1251, C1219, C1248, C1221 & C1268, coils L1012, L1015, & L1026, and diodes **D1017**, **D1021** and **D1025** (both **HVC350B**). The amplified RF signal is passed through the another varactor-tuned band-pass filter consisting of capacitors C1198, 1199, 1200, & 1218, coils L1012 and L1015, and diodes **D1017** and **D1021** (both **HVC350B**), then applied to the 1st mixer **Q1037** (**3SK296ZQ**) along with the first local signal from the PLL circuit.

The first local signal is generated between 352.75 MHz and 422.75 MHz by the VCO, which consists of **Q1009** (**2SC5374**) and varactor diode **D1002** (**HVC355B**) according to the receiving frequency.

## IF and Audio Circuits

The 47.25 MHz first IF signal is applied to the monolithic crystal filters **XF1001** and **XF1002** which strip away unwanted mixer products, and the IF signal is applied to the first IF amplifier **Q1032** (**2SC4400**). The amplified first IF signal is then delivered to the FM IF subsystem IC **Q1028** (**NJM2591V**), which contains the second mixer, limiter amplifier, noise amplifier, and FM detector.

The 46.8 MHz second local signal which is made from quadrupled 11.7 MHz crystal **X1001** produces the 450 kHz second IF signal when mixed with first IF signal within **Q1028** (**NJM2591V**).

The 450 kHz second IF signal is applied to the ceramic filter **CF1001** (for Narrow FM) or **CF1002** (for Wide FM) which strip away unwanted mixer products to the ceramic discriminator **CD1001** which removes any amplitude variations in the 450 kHz IF signal before detection of speech.

The detected audio from the **Q1028** (**NJM2591V**) passes through the de-emphasis circuit consisting of resistors R1082 & R1113, and capacitors C1120 &

C1122, to the audio mute gate **Q1034** (**2SJ364**).

The audio signal passes through a band-pass filter consisting of **Q1046** and **Q1047** (both **2SC4154**), and the audio mute gate **Q1039** (**2SJ347**), to the audio VR which adjusts the audio sensitivity to compensate for audio level variations. The adjusted audio signal is delivered to the audio amplifier **Q1035** (**LA4425A**) which provides up to 3 Watts, to the external speaker jack or a 4-Ohm loudspeaker.

## Squelch Control

When no carrier received, the noise signal from **Q1028** (**NJM2591V**) is amplified by **Q1051** (**2SC4617**), and is detected by **D1011** and **D1013** (both **DA221**). The resulting DC voltage passes through the SQL knob to main CPU **Q2002** (**HD64F2266TF13**). While no carrier is received, main CPU **Q2002** (**HD64F2266TF13**) control **Q1048** (**CD4094BPWR**), thus, audio mute gate **Q1034** (**2SJ364**) and **Q1039** (**2SJ347**) turns "OFF" to disable the audio output from the speaker.

## Transmit Signal Path

The speech signal from the microphone is amplified by **Q1049** (**LA2902PWR**). The amplified speech signal is subjected to the low-pass filter network **Q1049** (**LA2902PWR**) to deviation controlled by **Q1043** (**M62364FP**).

The adjusted speech signal from **Q1043** (**M62364FP**) is delivered to VCO **Q1009** (**2SC5374**) which frequency modulates the transmitting VCO made up of **D1004** (**HSC277**).

The modulated transmit signal passes through buffer amplifier **Q1010** and **Q1023** (both **2SC5374**).

The transmit signal applied to the drive amplifier **Q1026** (**2SC5226**), then finally amplified by power amplifier module **Q1030** (**RA55H4047M**) up to 50 Watts. The APC circuit controls the **Q1030** (**RA55H4047M**) power amplifier's gain.

The 50 Watts RF signal passes through low-pass filter network consisting of Capacitors C1210 and C1211 and coil L1013, antenna switch **D1018** and **D1019** (both **XB15A709**), and another low-pass filter network consisting of capacitors C1213, C1236, & C1239, C2038 and coils L1017, L1018, & L1019, and then deliver to the ANT jack.

## *Circuit Description*

### *TX APC Circuit*

A portion of the power amplifier module output is rectified by **D1022 (1SS321)**, then delivered to APC **Q1038 (LM2904PWR)**, as a DC voltage which is proportional to the output level of the power amplifier module.

The APC **Q1038 (LM2904PWR)** is compared the rectified DC voltage from the power amplifier module and the reference voltage from the main CPU **Q2002 (HD64F2266TF13)**, to produce a control voltage, which regulates supply voltage to the power amplifier module **Q1030 (RA55H4047M)**, so as to maintain stable output power under varying antenna loading condition.

### *PLL*

A portion of the output from the VCO **Q1009 (2SC5374)** passes through the buffer amplifier **Q1010** and **Q1017** (both **2SC5374**), then delivered to the programmable divider section of the PLL IC **Q1011 (MB15A01PFV1)**, which divided according to the frequency dividing data that is associated with the setting frequency input from the main CPU **Q2002 (HD64F2266TF13)**. It is then sent to the phase comparator section of the PLL IC **Q1011 (MB15A01PFV1)**.

The 11.7 MHz frequency of the reference oscillator circuit made up of **X1001** is divided by the reference frequency divider section of **Q1011 (MB15A01PFV1)** into 2340 or 1872 parts to become 5 kHz or 6.25 kHz comparative reference frequencies, which are utilized by the phase comparator section of **Q1011 (MB15A01PFV1)**.

The phase comparator section of **Q1011 (MB15A01PFV1)** compares the phase between the frequency-divided oscillation frequency of the VCO circuit and comparative frequency and its output is a pulse corresponding to the phase difference. This pulse is integrated by the charge pump and loop filter into a control voltage (VCV) to control the oscillation frequency of the VCO **Q1009 (2SC5374)**.



## Introduction

The FT-1807M is carefully aligned at the factory for the specified performance across the amateur band. Realignment should therefore not be necessary except in the event of a component failure. Only an authorized Vertex Standard representative should perform all component replacement and service, or the warranty policy may be void.

The following procedures cover the adjustments that are not normally required once the transceiver has left the factory. However, if damage occurs and some parts subsequently 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 Vertex Standard service technicians who are experienced with the circuitry and fully equipped for repair and alignment. If a fault is suspected, contact the dealer from whom the transceiver was purchased for instructions regarding repair. Authorized Vertex Standard 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, Vertex Standard reserves 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 realignment determined to be absolutely necessary.

## Required Test Equipment

The following test equipment (and familiarity with its use) is necessary for complete realignment. Correction of problems caused by misalignment resulting from use of improper test equipment is not covered under the warranty policy. While most steps do not require all of the equipment listed, the interactions of some adjustments may require that more complex adjustments be performed afterwards.

Do not attempt to perform only a single step unless it is clearly isolated electrically from all other steps. Have all test equipment ready before beginning and, follow all of the steps in a section in the order presented.

- RF Signal Generator with calibrated output level at 500 MHz
- Deviation Meter (linear detector)
- In-line Wattmeter with 5% accuracy at 500 MHz
- 50-Ohm 100-W RF Dummy Load
- 8-Ohm AF Dummy Load
- Regulated DC Power Supply adjustable from 9 to 16.5 VDC, 15A
- Frequency Counter: 0.2-ppm accuracy at 500 MHz
- AF Signal Generator
- AC Voltmeter
- DC Voltmeter: high impedance
- UHF Sampling Coupler
- SINAD Meter

# Alignment

## Alignment Preparation & Precautions

A 50-Ohm RF load and in-line wattmeter must be connected to the antenna jack in all procedures that call for transmission; 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 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.

*Note:* Signal levels in dB referred to in the alignment procedure are based on  $0\text{dB}\mu = 0.5\mu\text{V}$ .

## Test Setup

Set up the test equipment as shown below for transceiver alignment.

## Entering the Alignment Mode

Alignment of the FT-1807M is performed using a front panel software-based procedure. To perform alignment of the transceiver, it must first be placed in the "Alignment Mode," in which the adjustments will be made and then stored into memory.

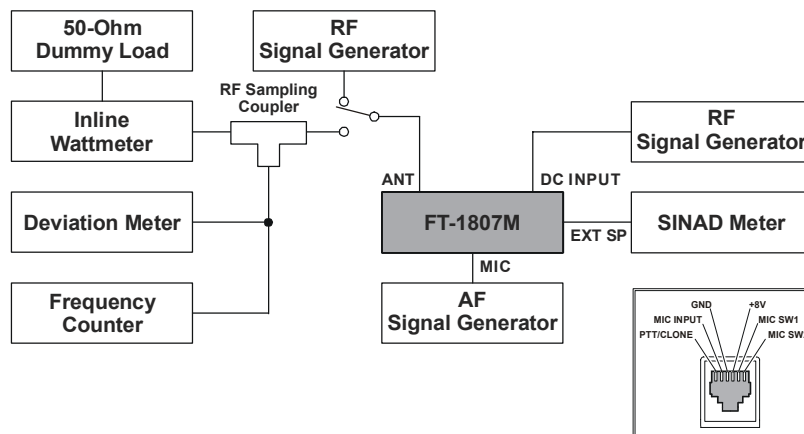
To enter the Alignment mode, press and hold in the [REV(DW)] and [D/MR(MW)] keys while turning the radio on. Once the radio is on, release these two key. The transceiver is now in the "Alignment Mode."

### PLL Reference Frequency

- Rotate the **DIAL** knob to set the alignment parameter to "435.000 rF."
- Press the [D/MR(MW)] key to enable adjustment of the "PLL Reference Frequency."
- Press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the counter frequency reading is 435.100 MHz ( $\pm 200$  Hz).
- Press the [D/MR(MW)] key.

### RF Front-end Tuning

- Inject a 435.100 MHz signal at a level of  $-10\text{ dB}\mu$  (with 1 kHz modulation @  $\pm 3.5$  kHz deviation) from the RF signal generator.
- Rotate the **DIAL** knob to set the alignment parameter to "435.100 tn."
- Press the [D/MR(MW)] key to enable adjustment of the "RF Front-end Tuning."
- Adjust the **DIAL** knob so that the maximum SINAD.
- Press the [D/MR(MW)] key.



**TEST EQUIPMENT SETUP**

## Squelch Threshold Level

- Inject a 435.100 MHz signal at a level of  $-14$  dB $\mu$  (with 1 kHz modulation @ $\pm 3.5$  kHz deviation) from the RF signal generator.
- Rotate the **SQL** knob to the 10-o'clock position.
- Rotate the **DIAL** knob to set the alignment parameter to "**435.100 tL.**"
- Press the [**D/MR(MW)**] key to enable adjustment of the "Squelch Threshold Level."
- Press the [**D/MR(MW)**] key three times.
- Press the [**D/MR(MW)**] key.

## S-meter Level (S-1)

- Inject a 435.100 MHz signal at a level of  $-5$  dB $\mu$  (with 1 kHz modulation @ $\pm 3.5$  kHz deviation) from the RF signal generator.
- Rotate the **DIAL** knob to set the alignment parameter to "**435.100 S1.**"
- Press the [**D/MR(MW)**] key to enable adjustment of the "S-meter Level (S-1)."
- Press the [**D/MR(MW)**] key three times.
- Press the [**D/MR(MW)**] key.

## S-meter Level (S-9)

- Inject a 435.100 MHz signal at a level of  $+23$  dB $\mu$  (with 1 kHz modulation @ $\pm 3.5$  kHz deviation) from the RF signal generator.
- Rotate the **DIAL** knob to set the alignment parameter to "**435.100 S9.**"
- Press the [**D/MR(MW)**] key to enable adjustment of the "S-meter Level (S-9)."
- Press the [**D/MR(MW)**] key three times.
- Press the [**D/MR(MW)**] key.

## TX Power (High)

- Rotate the **DIAL** knob to set the alignment parameter to "**435.000 HP.**"
- Press the [**D/MR(MW)**] key to enable adjustment of the "TX Power (High)."
- Press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the RF Power Meter reading is 50 W ( $\pm 1.0$ W).
- Press the [**D/MR(MW)**] key.

## TX Power (Low 3)

- Rotate the **DIAL** knob to set the alignment parameter to "**435.000 L3.**"
- Press the [**D/MR(MW)**] key to enable adjustment of the "TX Power (Low 3)."
- Press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the RF Power Meter reading is 25 W ( $\pm 1.0$  W).
- Press the [**D/MR(MW)**] key.

## TX Power (Low 2)

- Rotate the **DIAL** knob to set the alignment parameter to "**435.000 L2.**"
- Press the [**D/MR(MW)**] key to enable adjustment of the "TX Power (Low 2)."
- Press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the RF Power Meter reading is 10 W ( $\pm 0.5$  W).
- Press the [**D/MR(MW)**] key.

## TX Power (Low 1)

- Rotate the **DIAL** knob to set the alignment parameter to "**435.000 L1.**"
- Press the [**D/MR(MW)**] key to enable adjustment of the "TX Power (Low 1)."
- Press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the RF Power Meter reading is 5 W ( $\pm 0.5$  W).
- Press the [**D/MR(MW)**] key.

## TX Deviation

- Inject a 1 kHz, 50 mV signal from the Audio Generator.
- Rotate the **DIAL** knob to set the alignment parameter to "**435.000 dU.**"
- Press the [**D/MR(MW)**] key to enable adjustment of the "TX Deviation."
- Press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the Deviation Meter reading is 4.2 kHz ( $\pm 0.1$  kHz).
- Press the [**D/MR(MW)**] key.

# *Alignment*

## **CTCSS TX Deviation**

- Rotate the **DIAL** knob to set the alignment parameter to “**435.000 103.**”
- Press the [**D/MR(MW)**] key to enable adjustment of the “CTCSS TX Deviation.”
- Press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the Deviation Meter reading is 0.6 kHz ( $\pm 0.05$  kHz).
- Press the [**D/MR(MW)**] key.

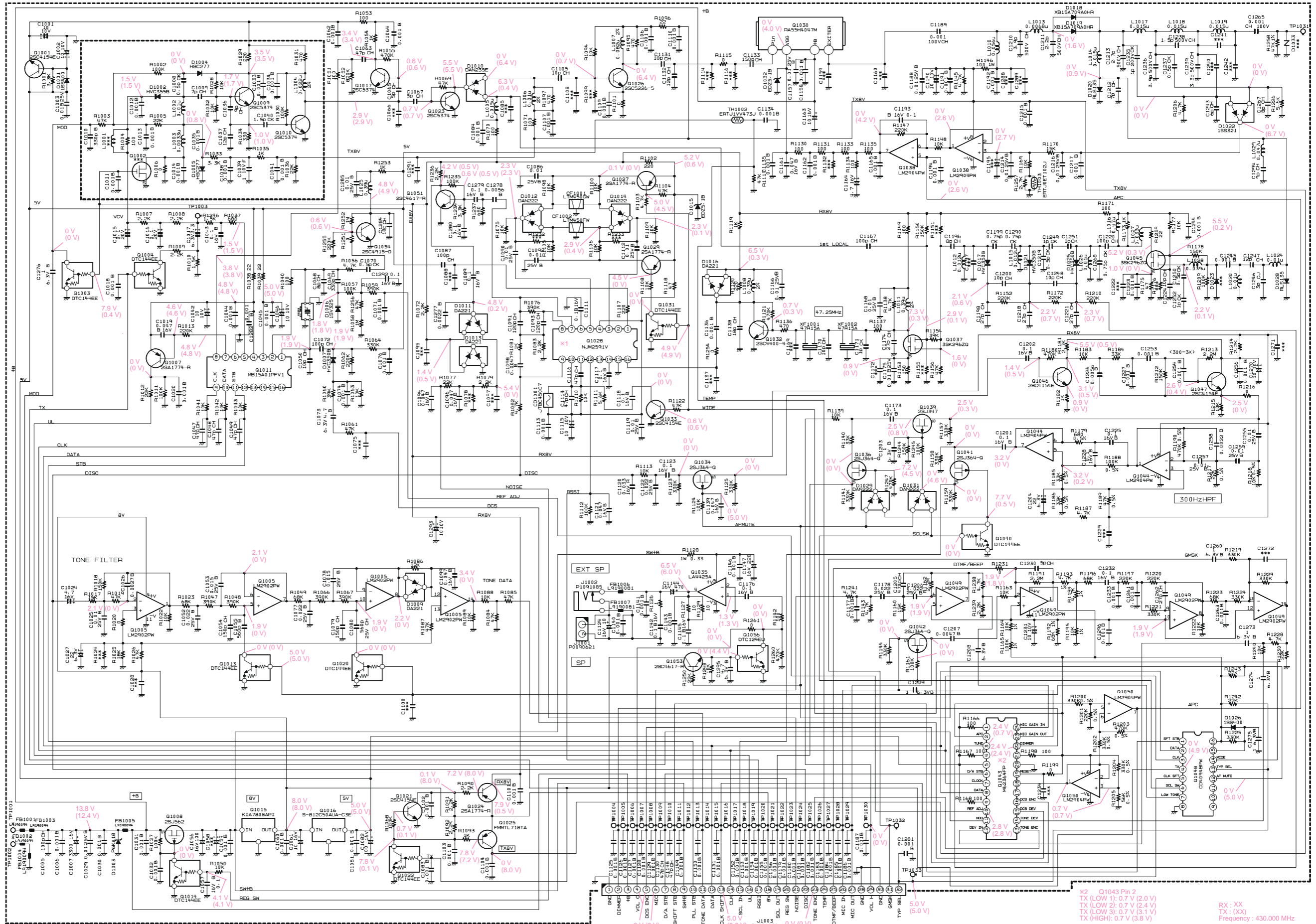
## **DCS TX Deviation**

- Rotate the **DIAL** knob to set the alignment parameter to “**43.000 dC.**”
- Press the [**D/MR(MW)**] key to enable adjustment of the “DCS TX Deviation.”
- Press the **PTT** switch to activate the transmitter, adjust the **DIAL** knob so that the Deviation Meter reading is 0.8 kHz ( $\pm 0.05$  kHz).
- Press the [**D/MR(MW)**] key.

## *Closing the Alignment mode*

Press the [**DW(REV)**] key to save the new setting and exit to normal operation.

# MAIN Unit Circuit Diagram



x1 Q1028

| Pin | RX   | TX   |
|-----|------|------|
| 1   | 5.0V | 5.0V |
| 2   | ---  | ---  |
| 3   | 3.0V | 0V   |
| 4   | 5.0V | 0.6V |
| 5   | 5.0V | 0.5V |
| 6   | 5.0V | 0.5V |
| 7   | ---  | ---  |
| 8   | 0.7V | 0V   |
| 9   | 1.1V | 0V   |
| 10  | 5.0V | 0V   |
| 11  | 3.2V | 0.1V |
| 12  | 0.6V | 0V   |
| 13  | ---  | ---  |
| 14  | ---  | ---  |
| 15  | 0V   | 0V   |
| 16  | 1.0V | 0V   |

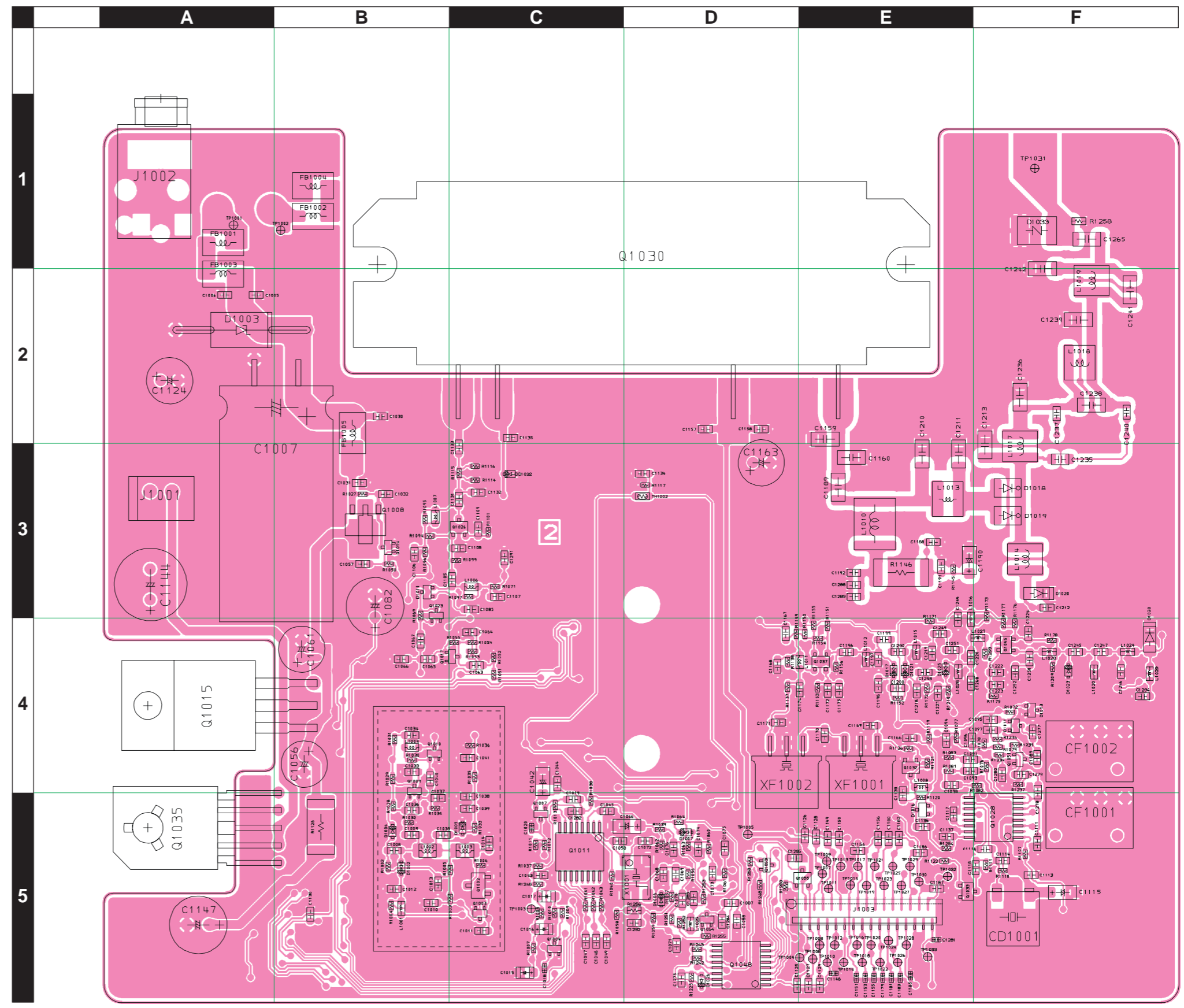
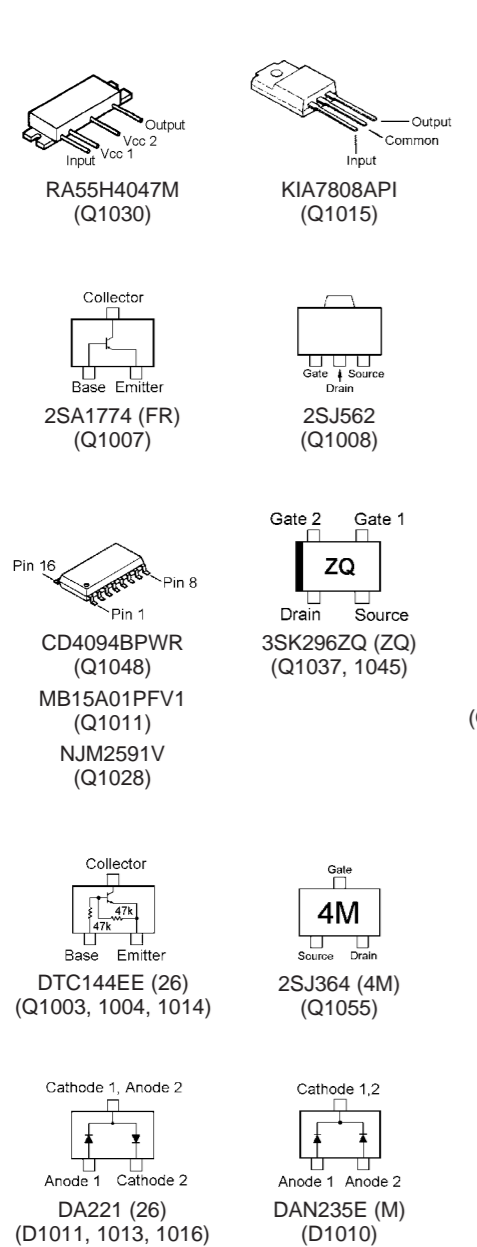
x2 Q1043 Pin 2  
 TX (LOW 1): 0.7V (2.0V)  
 TX (LOW 2): 0.7V (2.4V)  
 TX (LOW 3): 0.7V (3.1V)  
 TX (HIGH): 0.7V (3.8V)  
 RX: XX  
 TX: (XX)  
 Frequency: 430.000 MHz

## *MAIN Unit*

*Note*

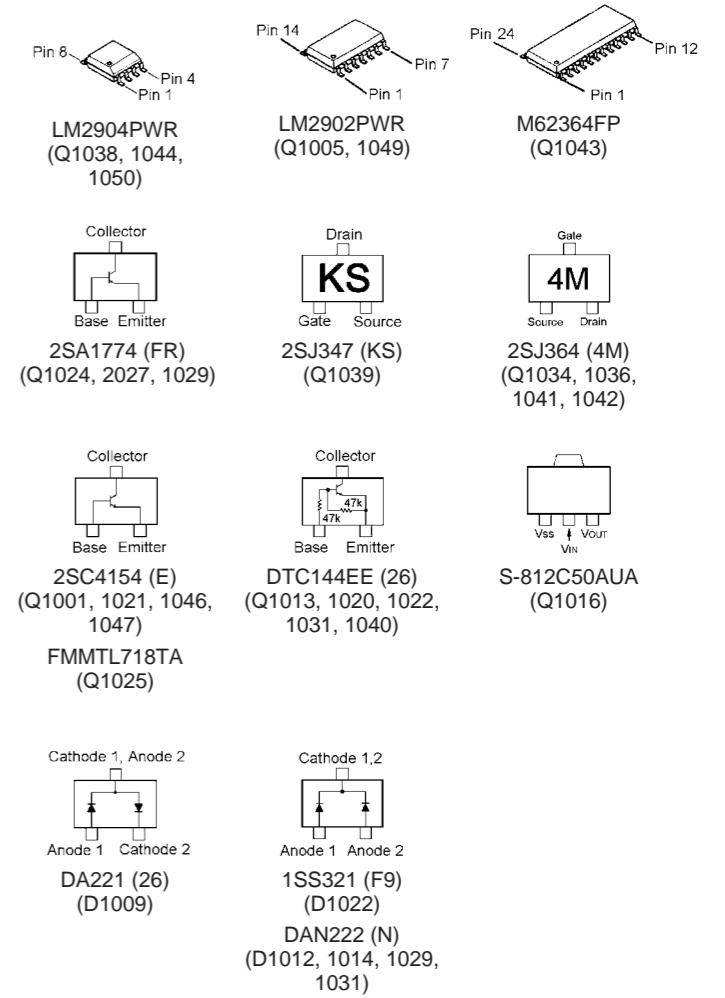
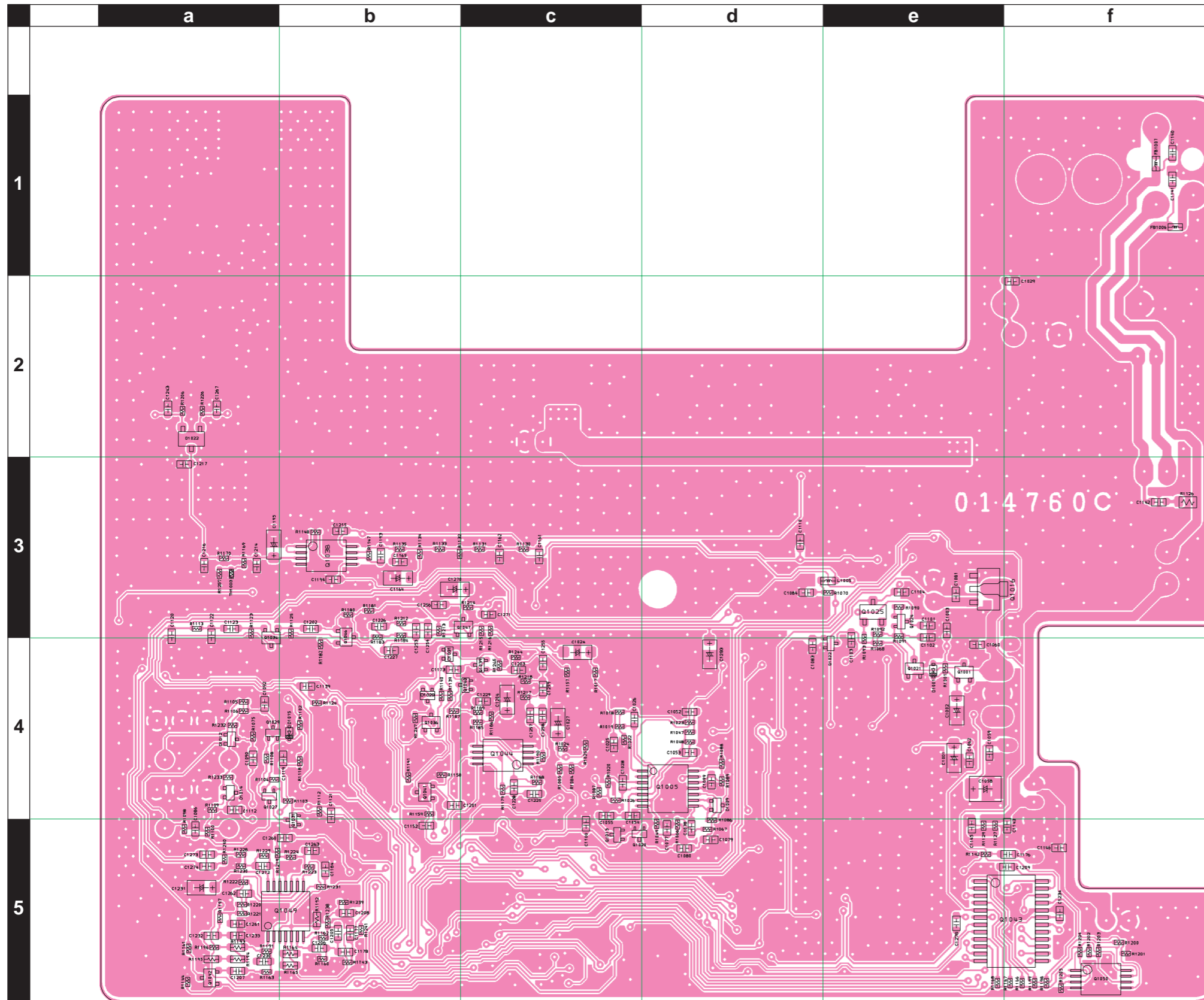
# MAIN Unit

## Parts Layout (Side A)



# MAIN Unit

## Parts Layout (Side B)





| REF                   | DESCRIPTION     | VALUE    | V/W  | TOL. | MFR'S DESIG        | VXSTD P/N | VERS.    | LOT | SIDE | LAY ADR |
|-----------------------|-----------------|----------|------|------|--------------------|-----------|----------|-----|------|---------|
| PCB with Components   |                 |          |      |      |                    | CB3539001 | FT-1807M |     |      |         |
|                       |                 |          |      |      |                    | CB3539002 | FT-1807E |     |      |         |
| Printed Circuit Board |                 |          |      |      | AH023U000          | FR014760C |          | 1-  |      |         |
| C 1001                | CHIP TA.CAP.    | 10uF     | 10V  |      | TAJA106M010Y       | K78100072 |          | 1-  | B    | e4      |
| C 1002                | CHIP TA.CAP.    | 10uF     | 10V  |      | TAJA106M010Y       | K78100072 |          | 1-  | B    | e4      |
| C 1003                | CHIP CAP.       | 0.01uF   | 25V  | B    | GRM39B103M25PT     | K22144802 |          | 1-  | B    | e3      |
| C 1005                | CHIP CAP.       | 100pF    | 50V  | CH   | GRM1882C1H101JA01D | K22174235 |          | 1-  | A    | A1      |
| C 1006                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | A1      |
| C 1007                | AL.ELECTRO.CAP. | 3300uF   | 16V  |      | RE3-16V332M16#     | K40129065 |          | 1-  | A    | B2      |
| C 1008                | CHIP CAP.       | 0.5pF    | 50V  | CK   | GRM1884C1HR50BZ01D | K22174265 |          | 1-  | A    | B5      |
| C 1009                | CHIP CAP.       | 7pF      | 50V  | CH   | GRM1882C1H7R0DZ01D | K22174208 |          | 1-  | A    | B5      |
| C 1010                | CHIP CAP.       | 330pF    | 50V  | B    | GRM188B11H331KD01D | K22174803 |          | 1-  | A    | B5      |
| C 1011                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | C5      |
| C 1012                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | B5      |
| C 1013                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | B5      |
| C 1014                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | C5      |
| C 1015                | CHIP TA.CAP.    | 0.1uF    | 20V  |      | SKF-1D104M-RP      | K78130049 |          | 1-  | A    | C5      |
| C 1016                | CHIP TA.CAP.    | 0.1uF    | 20V  |      | SKF-1D104M-RP      | K78130049 |          | 1-  | A    | C5      |
| C 1017                | CHIP TA.CAP.    | 3.3uF    | 6.3V |      | TESVSP0J335M-8R    | K78080052 |          | 1-  | A    | C5      |
| C 1018                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |          | 1-  | A    | C5      |
| C 1019                | CHIP CAP.       | 0.047uF  | 16V  | B    | GRM39B473K16PT     | K22124804 |          | 1-  | A    | C4      |
| C 1020                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |          | 1-  | A    | C5      |
| C 1024                | CHIP TA.CAP.    | 4.7uF    | 16V  |      | TAJA475M016Y       | K78120079 |          | 1-  | B    | c4      |
| C 1025                | CHIP CAP.       | 0.01uF   | 25V  | B    | GRM39B103M25PT     | K22144802 |          | 1-  | B    | c4      |
| C 1026                | CHIP CAP.       | 0.0027uF | 50V  | B    | GRM188B11H272KA01D | K22174814 |          | 1-  | B    | c4      |
| C 1027                | CHIP TA.CAP.    | 22uF     | 6.3V |      | TAJA226M006Y       | K78080086 |          | 1-  | B    | c4      |
| C 1029                | CHIP CAP.       | 0.01uF   | 25V  | B    | GRM39B103K25PT     | K22144803 |          | 1-  | B    | f2      |
| C 1030                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | B2      |
| C 1031                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | B3      |
| C 1032                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | B3      |
| C 1033                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | B4      |
| C 1034                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | B4      |
| C 1035                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | B5      |
| C 1036                | CHIP CAP.       | 9pF      | 50V  | CH   | GRM1882C1H9R0DZ01D | K22174210 |          | 1-  | A    | B4      |
| C 1037                | CHIP CAP.       | 12pF     | 50V  | CH   | GRM1882C1H120JA01D | K22174213 |          | 1-  | A    | B4      |
| C 1038                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | C4      |
| C 1039                | CHIP CAP.       | 1uF      | 10V  | F    | GRM188F11A105ZA01D | K22105001 |          | 1-  | A    | C4      |
| C 1040                | CHIP CAP.       | 1.5pF    | 50V  | CK   | GRM1884C1H1R5CZ01D | K22174258 |          | 1-  | A    | B4      |
| C 1041                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | C4      |
| C 1042                | CHIP TA.CAP.    | 10uF     | 10V  |      | TAJA106M010Y       | K78100072 |          | 1-  | A    | C4      |
| C 1043                | CHIP CAP.       | 0.1uF    | 16V  | B    | GRM188B11C104KA01D | K22124805 |          | 1-  | A    | C5      |
| C 1044                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | C4      |
| C 1045                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | C4      |
| C 1046                | CHIP TA.CAP.    | 10uF     | 10V  |      | TAJA106M010Y       | K78100072 |          | 1-  | A    | C4      |
| C 1047                | CHIP CAP.       | 47pF     | 50V  | CH   | GRM1882C1H470JA01D | K22174227 |          | 1-  | A    | C5      |
| C 1048                | CHIP CAP.       | 47pF     | 50V  | CH   | GRM1882C1H470JA01D | K22174227 |          | 1-  | A    | C5      |
| C 1049                | CHIP CAP.       | 47pF     | 50V  | CH   | GRM1882C1H470JA01D | K22174227 |          | 1-  | A    | C5      |
| C 1050                | CHIP CAP.       | 10pF     | 50V  | CH   | GRM1882C1H100JA01D | K22174211 |          | 1-  | A    | C5      |
| C 1052                | CHIP CAP.       | 0.022uF  | 25V  | B    | GRM39B223K25PT     | K22144807 |          | 1-  | B    | d4      |
| C 1053                | CHIP CAP.       | 0.015uF  | 25V  | B    | GRM39B153K25PT     | K22144805 |          | 1-  | B    | d4      |
| C 1054                | CHIP CAP.       | 150pF    | 50V  | CH   | GRM1882C1H151JA01D | K22174239 |          | 1-  | B    | c4      |
| C 1055                | CHIP CAP.       | 560pF    | 50V  | B    | GRM188B11H561KA01D | K22174806 |          | 1-  | B    | c4      |
| C 1056                | AL.ELECTRO.CAP. | 100uF    | 16V  |      | RE3-16V101ME3#     | K40129063 |          | 1-  | A    | B4      |
| C 1057                | CHIP CAP.       | 0.1uF    | 16V  | B    | GRM188B11C104KA01D | K22124805 |          | 1-  | A    | B3      |
| C 1059                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | B    | e4      |
| C 1060                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | B    | e4      |
| C 1061                | AL.ELECTRO.CAP. | 10uF     | 16V  |      | RE2-16V100ME3#     | K40129004 |          | 1-  | A    | B4      |
| C 1062                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | B    | e4      |
| C 1063                | CHIP CAP.       | 47pF     | 50V  | CH   | GRM1882C1H470JA01D | K22174227 |          | 1-  | A    | C4      |
| C 1064                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | C3      |
| C 1065                | CHIP CAP.       | 5pF      | 50V  | CH   | GRM1882C1H5R0CZ01D | K22174206 |          | 1-  | A    | B4      |
| C 1067                | CHIP CAP.       | 5pF      | 50V  | CH   | GRM1882C1H5R0CZ01D | K22174206 |          | 1-  | A    | B3      |
| C 1068                | CHIP CAP.       | 8pF      | 50V  | CH   | GRM1882C1H8R0DZ01D | K22174209 |          | 1-  | A    | D5      |
| C 1069                | CHIP CAP.       | 330pF    | 50V  | CH   | GRM1882C1H331JA01D | K22174253 |          | 1-  | A    | D5      |
| C 1070                | CHIP CAP.       | 0.5pF    | 50V  | CK   | GRM1884C1HR50CZ01D | K22174201 |          | 1-  | A    | D5      |
| C 1071                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | D5      |
| C 1072                | CHIP CAP.       | 100pF    | 50V  | CH   | GRM1882C1H101JA01D | K22174235 |          | 1-  | A    | D5      |
| C 1073                | CHIP CAP.       | 4.7uF    | 6.3V | B    | JMK107BJ475MA-T    | K22084803 |          | 1-  | A    | D5      |
| C 1074                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | D5      |
| C 1076                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | A    | D5      |
| C 1077                | CHIP CAP.       | 0.022uF  | 25V  | B    | GRM39B223K25PT     | K22144807 |          | 1-  | B    | d5      |
| C 1078                | CHIP CAP.       | 0.015uF  | 25V  | B    | GRM39B153K25PT     | K22144805 |          | 1-  | B    | d5      |
| C 1079                | CHIP CAP.       | 150pF    | 50V  | CH   | GRM1882C1H151JA01D | K22174239 |          | 1-  | B    | d5      |
| C 1080                | CHIP CAP.       | 560pF    | 25V  | CH   | GRM39CH561J25PT    | K22144201 |          | 1-  | B    | d5      |
| C 1081                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |          | 1-  | B    | e3      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION     | VALUE    | V/W | TOL. | MFR'S DESIG        | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-----------------|----------|-----|------|--------------------|-----------|-------|-----|------|---------|
| C 1082 | AL.ELECTRO.CAP. | 100uF    | 16V |      | RC2-16V101MF1#     | K40129038 |       | 1-  | A    | B3      |
| C 1083 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | d4      |
| C 1084 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | d3      |
| C 1086 | CHIP CAP.       | 0.01uF   | 25V | B    | GRM39B103M25PT     | K22144802 |       | 1-  | B    | a5      |
| C 1087 | CHIP CAP.       | 100pF    | 50V | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | D5      |
| C 1089 | CHIP CAP.       | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | F4      |
| C 1090 | CHIP CAP.       | 0.01uF   | 25V | B    | GRM39B103M25PT     | K22144802 |       | 1-  | B    | a4      |
| C 1091 | CHIP CAP.       | 120pF    | 50V | CH   | GRM1882C1H121JA01D | K22174237 |       | 1-  | A    | E4      |
| C 1092 | CHIP CAP.       | 0.01uF   | 25V | B    | GRM39B103M25PT     | K22144802 |       | 1-  | B    | a4      |
| C 1093 | CHIP CAP.       | 120pF    | 50V | CH   | GRM1882C1H121JA01D | K22174237 |       | 1-  | A    | E4      |
| C 1094 | CHIP CAP.       | 0.047uF  | 16V | B    | GRM39B473K16PT     | K22124804 |       | 1-  | A    | E4      |
| C 1096 | CHIP CAP.       | 0.047uF  | 16V | B    | GRM39B473K16PT     | K22124804 |       | 1-  | A    | E4      |
| C 1098 | CHIP CAP.       | 0.0047uF | 50V | B    | GRM188B11H472KA01D | K22174817 |       | 1-  | A    | E4      |
| C 1099 | CHIP CAP.       | 0.047uF  | 16V | B    | GRM39B473K16PT     | K22124804 |       | 1-  | B    | d4      |
| C 1101 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | e3      |
| C 1102 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | e3      |
| C 1103 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | e4      |
| C 1104 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | e3      |
| C 1105 | CHIP CAP.       | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |       | 1-  | A    | B3      |
| C 1106 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | B3      |
| C 1107 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | C3      |
| C 1109 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | C3      |
| C 1110 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | d3      |
| C 1111 | CHIP CAP.       | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | F5      |
| C 1112 | CHIP CAP.       | 0.01uF   | 25V | B    | GRM39B103M25PT     | K22144802 |       | 1-  | B    | a4      |
| C 1113 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | F5      |
| C 1114 | CHIP CAP.       | 47pF     | 50V | CH   | GRM1882C1H470JA01D | K22174227 |       | 1-  | A    | F5      |
| C 1115 | CHIP TA.CAP.    | 10uF     | 10V |      | TAJA106M010Y       | K78100072 |       | 1-  | A    | F5      |
| C 1116 | CHIP CAP.       | 47pF     | 50V | CH   | GRM1882C1H470JA01D | K22174227 |       | 1-  | A    | F5      |
| C 1117 | CHIP CAP.       | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | E4      |
| C 1118 | CHIP CAP.       | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | A    | E5      |
| C 1119 | CHIP CAP.       | 0.01uF   | 25V | B    | GRM39B103M25PT     | K22144802 |       | 1-  | B    | b4      |
| C 1120 | CHIP CAP.       | 0.033uF  | 16V | R    | GRM188R11C333KA01D | K22124801 |       | 1-  | B    | a3      |
| C 1121 | CHIP CAP.       | 0.047uF  | 16V | B    | GRM39B473K16PT     | K22124804 |       | 1-  | B    | b4      |
| C 1122 | CHIP CAP.       | 0.022uF  | 25V | B    | GRM39B223K25PT     | K22144807 |       | 1-  | B    | a3      |
| C 1123 | CHIP CAP.       | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | a3      |
| C 1124 | AL.ELECTRO.CAP. | 10uF     | 16V |      | RE2-16V100ME3#     | K40129004 |       | 1-  | A    | A2      |
| C 1125 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | D5      |
| C 1126 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | E5      |
| C 1127 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | E5      |
| C 1128 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | E5      |
| C 1129 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | E5      |
| C 1130 | CHIP CAP.       | 47pF     | 50V | CH   | GRM1882C1H470JA01D | K22174227 |       | 1-  | A    | B5      |
| C 1131 | CHIP CAP.       | 10pF     | 50V | CH   | GRM1882C1H100JA01D | K22174211 |       | 1-  | A    | C3      |
| C 1132 | CHIP CAP.       | 12pF     | 50V | CH   | GRM1882C1H120JA01D | K22174213 |       | 1-  | A    | C3      |
| C 1133 | CHIP CAP.       | 150pF    | 50V | CH   | GRM1882C1H151JA01D | K22174239 |       | 1-  | A    | C2      |
| C 1134 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | D2      |
| C 1135 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | C2      |
| C 1136 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | E4      |
| C 1138 | CHIP CAP.       | 18pF     | 50V | CH   |                    | K22174217 |       | 1-  | A    | E4      |
| C 1139 | CHIP CAP.       | 0.047uF  | 16V | B    | GRM39B473K16PT     | K22124804 |       | 1-  | B    | b4      |
| C 1140 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | f1      |
| C 1141 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | f1      |
| C 1142 | CHIP CAP.       | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | f3      |
| C 1143 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | f5      |
| C 1144 | AL.ELECTRO.CAP. | 470uF    | 16V |      | RE3-16V471MG3#     | K40129066 |       | 1-  | A    | A3      |
| C 1145 | CHIP CAP.       | 0.1uF    | 16V | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | e5      |
| C 1146 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | f5      |
| C 1147 | AL.ELECTRO.CAP. | 220uF    | 16V |      | RE3-16V221MF3#     | K40129095 |       | 1-  | A    | A5      |
| C 1148 | CHIP CAP.       | 47pF     | 50V | CH   | GRM1552C1H470JZ01D | K22178228 |       | 1-  | A    | E5      |
| C 1149 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | E5      |
| C 1150 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | E5      |
| C 1151 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E5      |
| C 1152 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | b5      |
| C 1153 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E5      |
| C 1154 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | E5      |
| C 1155 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E5      |
| C 1156 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | E5      |
| C 1157 | CHIP CAP.       | 0.01uF   | 25V | B    | GRM39B103M25PT     | K22144802 |       | 1-  | A    | D2      |
| C 1158 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | D2      |
| C 1161 | CHIP CAP.       | 0.047uF  | 16V | B    | GRM39B473K16PT     | K22124804 |       | 1-  | B    | c3      |
| C 1162 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | c3      |
| C 1163 | AL.ELECTRO.CAP. | 10uF     | 16V |      | RE2-16V100ME3#     | K40129004 |       | 1-  | A    | D2      |
| C 1164 | CHIP TA.CAP.    | 4.7uF    | 16V |      | TAJA475M016Y       | K78120079 |       | 1-  | B    | b3      |
| C 1165 | CHIP CAP.       | 0.001uF  | 50V | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | b3      |

| REF    | DESCRIPTION  | VALUE    | V/W  | TOL. | MFR'S DESIG        | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|--------------|----------|------|------|--------------------|-----------|-------|-----|------|---------|
| C 1166 | CHIP CAP.    | 0.01uF   | 25V  | B    | GRM39B103M25PT     | K22144802 |       | 1-  | A    | E4      |
| C 1167 | CHIP CAP.    | 100pF    | 50V  | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | D3      |
| C 1168 | CHIP CAP.    | 0.01uF   | 25V  | B    | GRM39B103M25PT     | K22144802 |       | 1-  | A    | D4      |
| C 1170 | CHIP CAP.    | 10pF     | 50V  | CH   | GRM1882C1H100JA01D | K22174211 |       | 1-  | A    | E4      |
| C 1171 | CHIP CAP.    | 1pF      | 50V  | CK   | GRM1884C1H1R0CZ01D | K22174202 |       | 1-  | A    | D4      |
| C 1173 | CHIP CAP.    | 0.1uF    | 16V  | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | b4      |
| C 1174 | CHIP CAP.    | 27pF     | 50V  | CH   | GRM1882C1H270JA01D | K22174221 |       | 1-  | A    | D4      |
| C 1175 | CHIP CAP.    | 0.01uF   | 25V  | B    | GRM39B103M25PT     | K22144802 |       | 1-  | A    | E4      |
| C 1176 | CHIP CAP.    | 0.1uF    | 16V  | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | f5      |
| C 1177 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | b5      |
| C 1178 | CHIP CAP.    | 0.022uF  | 25V  | B    | GRM39B223K25PT     | K22144807 |       | 1-  | B    | b5      |
| C 1179 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E5      |
| C 1180 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | E5      |
| C 1181 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E5      |
| C 1182 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | E5      |
| C 1183 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E5      |
| C 1184 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | b5      |
| C 1185 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |       | 1-  | A    | E5      |
| C 1186 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | E5      |
| C 1187 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | E5      |
| C 1188 | CHIP CAP.    | 0.01uF   | 25V  | B    | GRM39B103M25PT     | K22144802 |       | 1-  | A    | E3      |
| C 1189 | CERAMIC CAP. | 0.001uF  | 100V | CH   | GRM42-6CH102J100PT | K22201202 |       | 1-  | A    | E3      |
| C 1190 | CHIP TA.CAP. | 10uF     | 10V  |      | TAJA106M010Y       | K78100072 |       | 1-  | A    | E3      |
| C 1191 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | E3      |
| C 1192 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | E3      |
| C 1193 | CHIP CAP.    | 0.1uF    | 16V  | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | b3      |
| C 1194 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | b3      |
| C 1196 | CHIP CAP.    | 8pF      | 50V  | CH   | GRM1882C1H8R0DZ01D | K22174209 |       | 1-  | A    | E3      |
| C 1198 | CHIP CAP.    | 27pF     | 50V  | CH   | GRM1882C1H270JA01D | K22174221 |       | 1-  | A    | E4      |
| C 1199 | CHIP CAP.    | 0.75pF   | 50V  | CK   | GRM1884C1HR75BZ01D | K22174266 |       | 1-  | A    | E3      |
| C 1200 | CHIP CAP.    | 10pF     | 50V  | CH   | GRM1882C1H100JA01D | K22174211 |       | 1-  | A    | E4      |
| C 1201 | CHIP CAP.    | 0.1uF    | 16V  | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | b4      |
| C 1202 | CHIP CAP.    | 0.1uF    | 16V  | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | b3      |
| C 1203 | CHIP CAP.    | 1uF      | 6.3V | B    | GRM188B10J105KA01D | K22084801 |       | 1-  | B    | c4      |
| C 1204 | CHIP TA.CAP. | 22uF     | 6.3V |      | TAJA226M006Y       | K78080086 |       | 1-  | B    | c4      |
| C 1205 | CHIP CAP.    | 470pF    | 50V  | CH   | GRM1882C1H471JA01D | K22174249 |       | 1-  | B    | b5      |
| C 1206 | CHIP CAP.    | 0.022uF  | 25V  | B    | GRM39B223K25PT     | K22144807 |       | 1-  | B    | b5      |
| C 1207 | CHIP CAP.    | 0.0047uF | 50V  | B    | GRM188B11H472KA01D | K22174817 |       | 1-  | B    | a5      |
| C 1208 | CHIP CAP.    | 1uF      | 6.3V | B    | GRM188B10J105KA01D | K22084801 |       | 1-  | B    | b5      |
| C 1209 | CHIP CAP.    | 1uF      | 6.3V | B    | GRM188B10J105KA01D | K22084801 |       | 1-  | B    | f5      |
| C 1210 | CHIP CAP.    | 3.9pF    | 500V | CH   | 1206N3R9C501LT     | K22278204 |       | 1-  | A    | E2      |
| C 1211 | CHIP CAP.    | 2.2pF    | 500V | CH   | 1206N2R2C501LT     | K22278201 |       | 1-  | A    | E2      |
| C 1212 | CHIP CAP.    | 7pF      | 50V  | CH   | GRM1882C1H7R0DZ01D | K22174208 |       | 1-  | A    | F3      |
| C 1213 | CHIP CAP.    | 2.7pF    | 500V | CH   | 1206N2R7C501LT     | K22278202 |       | 1-  | A    | F2      |
| C 1214 | CHIP CAP.    | 0.01uF   | 25V  | B    | GRM39B103M25PT     | K22144802 |       | 1-  | B    | a3      |
| C 1215 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | b3      |
| C 1216 | CHIP CAP.    | 0.01uF   | 25V  | B    | GRM39B103M25PT     | K22144802 |       | 1-  | B    | a3      |
| C 1217 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | a3      |
| C 1218 | CHIP CAP.    | 27pF     | 50V  | CH   | GRM1882C1H270JA01D | K22174221 |       | 1-  | A    | E4      |
| C 1219 | CHIP CAP.    | 0.5pF    | 50V  | CK   | GRM1884C1HR50BZ01D | K22174265 |       | 1-  | A    | E4      |
| C 1220 | CHIP CAP.    | 100pF    | 50V  | CH   | GRM1882C1H101JA01D | K22174235 |       | 1-  | A    | E4      |
| C 1221 | CHIP CAP.    | 27pF     | 50V  | CH   | GRM1882C1H270JA01D | K22174221 |       | 1-  | A    | E4      |
| C 1223 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | F4      |
| C 1224 | CHIP CAP.    | 10pF     | 50V  | CH   | GRM1882C1H100JA01D | K22174211 |       | 1-  | A    | F3      |
| C 1225 | CHIP CAP.    | 0.1uF    | 16V  | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | c4      |
| C 1226 | CHIP CAP.    | 0.0056uF | 50V  | B    | GRM188B11H562KA01D | K22174818 |       | 1-  | B    | b3      |
| C 1227 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | b4      |
| C 1228 | CHIP CAP.    | 0.1uF    | 16V  | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | c4      |
| C 1230 | CHIP CAP.    | 5pF      | 50V  | CH   | GRM1882C1H5R0CZ01D | K22174206 |       | 1-  | B    | a5      |
| C 1231 | CHIP TA.CAP. | 10uF     | 10V  |      | TAJA106M010Y       | K78100072 |       | 1-  | B    | a5      |
| C 1232 | CHIP CAP.    | 0.1uF    | 16V  | B    | GRM188B11C104KA01D | K22124805 |       | 1-  | B    | a5      |
| C 1233 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | B    | a5      |
| C 1235 | CHIP CAP.    | 1pF      | 200V | CK   | GRM2194C2D1R0CY21D | K22230208 |       | 1-  | A    | F2      |
| C 1236 | CHIP CAP.    | 3.9pF    | 500V | CH   | 1206N3R9C501LT     | K22278204 |       | 1-  | A    | F2      |
| C 1237 | CHIP CAP.    | 0.5pF    | 50V  | CK   | GRM1884C1HR50BZ01D | K22174265 |       | 1-  | A    | F2      |
| C 1238 | CHIP CAP.    | 1.5pF    | 500V | CH   | GRM31M5C2H1R5CY21L | K22271287 |       | 1-  | A    | F2      |
| C 1239 | CHIP CAP.    | 3.3pF    | 500V | CH   | 1206N3R3C501LT     | K22278203 |       | 1-  | A    | F2      |
| C 1243 | CHIP CAP.    | 6pF      | 50V  | CH   | GRM1882C1H6R0DZ01D | K22174207 |       | 1-  | B    | a2      |
| C 1244 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | E3      |
| C 1245 | CHIP CAP.    | 0.001uF  | 50V  | B    | GRM188B11H102KA01D | K22174809 |       | 1-  | A    | F3      |
| C 1246 | CHIP CAP.    | 3pF      | 50V  | CJ   | GRM1883C1H3R0CZ01D | K22174204 |       | 1-  | A    | F4      |
| C 1247 | CHIP CAP.    | 12pF     | 50V  | CH   | GRM1882C1H120JA01D | K22174213 |       | 1-  | A    | F3      |
| C 1248 | CHIP CAP.    | 10pF     | 50V  | CH   | GRM1882C1H100JA01D | K22174211 |       | 1-  | A    | E4      |
| C 1249 | CHIP CAP.    | 1pF      | 50V  | CK   | GRM1884C1H1R0BZ01D | K22174267 |       | 1-  | A    | E3      |
| C 1250 | CHIP CAP.    | 0.5pF    | 50V  | CK   | GRM1884C1HR50BZ01D | K22174265 |       | 1-  | A    | F4      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION    | VALUE    | V/W  | TOL. | MFR'S DESIG          | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|----------------|----------|------|------|----------------------|-----------|-------|-----|------|---------|
| C 1251 | CHIP CAP.      | 1pF      | 50V  | CK   | GRM1884C1H1R0BZ01D   | K22174267 |       | 1-  | A    | E3      |
| C 1252 | CHIP CAP.      | 1pF      | 50V  | CK   | GRM1884C1H1R0BZ01D   | K22174267 |       | 1-  | A    | F4      |
| C 1253 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM188B11H102KA01D   | K22174809 |       | 1-  | B    | b3      |
| C 1254 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM188B11H102KA01D   | K22174809 |       | 1-  | B    | b3      |
| C 1255 | CHIP CAP.      | 0.01uF   | 25V  | B    | GRM39B103M25PT       | K22144802 |       | 1-  | B    | c4      |
| C 1256 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM188B11H102KA01D   | K22174809 |       | 1-  | B    | b3      |
| C 1257 | CHIP CAP.      | 0.01uF   | 25V  | B    | GRM39B103M25PT       | K22144802 |       | 1-  | B    | c4      |
| C 1258 | CHIP CAP.      | 0.0022uF | 50V  | B    | GRM188B11H222KA01D   | K22174813 |       | 1-  | B    | c4      |
| C 1259 | CHIP CAP.      | 0.01uF   | 25V  | B    | GRM39B103M25PT       | K22144802 |       | 1-  | B    | c4      |
| C 1260 | CHIP CAP.      | 1uF      | 6.3V | B    | GRM188B10J105KA01D   | K22084801 |       | 1-  | B    | b5      |
| C 1261 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM188B11H102KA01D   | K22174809 |       | 1-  | B    | a5      |
| C 1262 | CHIP CAP.      | 27pF     | 50V  | CH   | GRM1882C1H270JA01D   | K22174221 |       | 1-  | B    | a5      |
| C 1263 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM188B11H102KA01D   | K22174809 |       | 1-  | B    | b5      |
| C 1265 | CERAMIC CAP.   | 0.001uF  | 100V | CH   | GRM42-6CH102J100PT   | K22201202 |       | 1-  | A    | F1      |
| C 1267 | CHIP CAP.      | 8pF      | 50V  | CH   | GRM1882C1H8R0DZ01D   | K22174209 |       | 1-  | B    | a2      |
| C 1268 | CHIP CAP.      | 0.75pF   | 50V  | CK   | GRM1884C1HR75BZ01D   | K22174266 |       | 1-  | A    | E4      |
| C 1270 | CHIP TA.CAP.   | 10uF     | 10V  |      | TAJA106M010Y         | K78100072 |       | 1-  | B    | b3      |
| C 1273 | CHIP CAP.      | 1uF      | 6.3V | B    | GRM188B10J105KA01D   | K22084801 |       | 1-  | B    | a5      |
| C 1274 | CHIP CAP.      | 1uF      | 6.3V | B    | GRM188B10J105KA01D   | K22084801 |       | 1-  | B    | a5      |
| C 1275 | CHIP CAP.      | 1uF      | 6.3V | B    | GRM188B10J105KA01D   | K22084801 |       | 1-  | A    | D5      |
| C 1276 | CHIP CAP.      | 1uF      | 6.3V | B    | GRM188B10J105KA01D   | K22084801 |       | 1-  | B    | e5      |
| C 1277 | CHIP CAP.      | 0.0022uF | 50V  | B    | GRM188B11H222KA01D   | K22174813 |       | 1-  | A    | F4      |
| C 1278 | CHIP CAP.      | 0.0056uF | 50V  | B    | GRM188B11H562KA01D   | K22174818 |       | 1-  | A    | F4      |
| C 1279 | CHIP CAP.      | 0.1uF    | 16V  | B    | GRM188B11C104KA01D   | K22124805 |       | 1-  | A    | F4      |
| C 1280 | CHIP CAP.      | 0.1uF    | 16V  | B    | GRM188B11C104KA01D   | K22124805 |       | 1-  | A    | F4      |
| C 1281 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM155B11H102KA01D   | K22178809 |       | 1-  | A    | E5      |
| C 1282 | CHIP CAP.      | 0.001uF  | 50V  | B    | GRM188B11H102KA01D   | K22174809 |       | 1-  | A    | C4      |
| C 1284 | CHIP CAP.      | 18pF     | 50V  | CH   |                      | K22174217 |       | 1-  | A    | D5      |
| C 1285 | CHIP CAP.      | 0.01uF   | 25V  | B    | GRM39B103M25PT       | K22144802 |       | 1-  | A    | D5      |
| C 1290 | CHIP CAP.      | 0.75pF   | 50V  | CK   | GRM1884C1HR75BZ01D   | K22174266 |       | 1-  | A    | E3      |
| C 1292 | CHIP CAP.      | 0.1uF    | 16V  | B    | GRM188B11C104KA01D   | K22124805 |       | 1-  | A    | D5      |
| C 1293 | CHIP TA.CAP.   | 10uF     | 10V  |      | TAJA106M010Y         | K78100072 |       | 1-  | B    | d4      |
| C 1294 | CHIP CAP.      | 9pF      | 50V  | CH   | GRM1882C1H9R0DZ01D   | K22174210 |       | 1-  | A    | F4      |
| C 1295 | CHIP CAP.      | 4.7uF    | 6.3V | B    | JMK107BJ475MA-T      | K22084803 |       | 1-  | A    | D5      |
| CD1001 | CERAMIC DISC   |          |      |      | JTBC450C7            | H7901500  |       | 1-  | A    | F5      |
| CF1001 | CERAMIC FILTER |          |      |      | LTM450GW             | H3900573  |       | 1-  | A    | F5      |
| CF1002 | CERAMIC FILTER |          |      |      | LTM450FW             | H3900572  |       | 1-  | A    | F4      |
| D 1001 | DIODE          |          |      |      | 1SS400 TE61          | G2070634  |       | 1-  | B    | e4      |
| D 1002 | DIODE          |          |      |      | HVC355B TRF-E        | G2070588  |       | 1-  | A    | B5      |
| D 1003 | SURGE ABSORBER |          |      |      | P6KA18               | Q9000721  |       | 1-  | A    | B2      |
| D 1004 | DIODE          |          |      |      | HSC277TRF-E          | G2070584  |       | 1-  | A    | B5      |
| D 1005 | DIODE          |          |      |      | HSC277TRF-E          | G2070584  |       | 1-  | A    | C5      |
| D 1006 | DIODE          |          |      |      | 1SV325(TPH3)         | G2070848  |       | 1-  | A    | D5      |
| D 1007 | DIODE          |          |      |      | HVC350B-TRF-E        | G2070596  |       | 1-  | A    | D5      |
| D 1009 | DIODE          |          |      |      | DA221 TL             | G2070178  |       | 1-  | B    | d4      |
| D 1010 | DIODE          |          |      |      | DAN235E TL           | G2070612  |       | 1-  | A    | B3      |
| D 1011 | DIODE          |          |      |      | DA221 TL             | G2070178  |       | 1-  | A    | F4      |
| D 1012 | DIODE          |          |      |      | DAN222 TL            | G2070174  |       | 1-  | B    | a4      |
| D 1013 | DIODE          |          |      |      | DA221 TL             | G2070178  |       | 1-  | A    | F4      |
| D 1014 | DIODE          |          |      |      | DAN222 TL            | G2070174  |       | 1-  | B    | a4      |
| D 1015 | DIODE          |          |      |      | EDZ TE-61 5.1B       | G2070998  |       | 1-  | B    | b4      |
| D 1016 | DIODE          |          |      |      | DA221 TL             | G2070178  |       | 1-  | A    | E4      |
| D 1017 | DIODE          |          |      |      | HVC350B-TRF-E        | G2070596  |       | 1-  | A    | E4      |
| D 1018 | DIODE          |          |      |      | XB15A709A0HR         | G2070826  |       | 1-  | A    | F3      |
| D 1019 | DIODE          |          |      |      | XB15A709A0HR         | G2070826  |       | 1-  | A    | F3      |
| D 1020 | DIODE          |          |      |      | RLS135 TE-11         | G2070128  |       | 1-  | A    | F3      |
| D 1021 | DIODE          |          |      |      | HVC350B-TRF-E        | G2070596  |       | 1-  | A    | E4      |
| D 1022 | DIODE          |          |      |      | 1SS321 TE85R         | G2070076  |       | 1-  | B    | a2      |
| D 1025 | DIODE          |          |      |      | HVC350B-TRF-E        | G2070596  |       | 1-  | A    | E4      |
| D 1026 | DIODE          |          |      |      | 1SS400 TE61          | G2070634  |       | 1-  | A    | D5      |
| D 1028 | DIODE          |          |      |      | RLS135 TE-11         | G2070128  |       | 1-  | A    | F3      |
| D 1029 | DIODE          |          |      |      | DAN222 TL            | G2070174  |       | 1-  | B    | b4      |
| D 1031 | DIODE          |          |      |      | DAN222 TL            | G2070174  |       | 1-  | B    | b4      |
| D 1032 | DIODE          |          |      |      | EDZ TE-61 5.1B       | G2070998  |       | 1-  | A    | C2      |
| FB1001 | FERRITE BEADS  |          |      |      | SMB304729            | L9190094  |       | 1-  | A    | A1      |
| FB1002 | FERRITE BEADS  |          |      |      | SMB304729            | L9190094  |       | 1-  | A    | B1      |
| FB1003 | FERRITE BEADS  |          |      |      | SMB304729            | L9190094  |       | 1-  | A    | A1      |
| FB1004 | FERRITE BEADS  |          |      |      | SMB304729            | L9190094  |       | 1-  | A    | B1      |
| FB1005 | FERRITE BEADS  |          |      |      | SMB304729            | L9190094  |       | 1-  | A    | B2      |
| FB1006 | FERRITE BEADS  |          |      |      | BK1608HS121-T        | L9190081  |       | 1-  | B    | f1      |
| FB1007 | FERRITE BEADS  |          |      |      | BK1608HS121-T        | L9190081  |       | 1-  | B    | f1      |
| J 1001 | CONNECTOR      |          |      |      | SC25-02WS            | P0090621  |       | 1-  | A    | A3      |
| J 1002 | CONNECTOR      |          |      |      | HSJ0836-0105009      | P1091085  |       | 1-  | A    | A1      |
| J 1003 | CONNECTOR      |          |      |      | 32FLT-SM2-TB(LF)(SN) | P1091258  |       | 1-  | A    | E5      |
| L 1002 | CHIP COIL      | 0.01uH   |      |      | LQW2BHN10NJ03L       | L1690609  |       | 1-  | A    | B5      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE    | V/W   | TOL. | MFR'S DESIG            | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-------------|----------|-------|------|------------------------|-----------|-------|-----|------|---------|
| L 1003 | CHIP COIL   | 0.0033uH |       |      | LQN21A3N3D04           | L1690606  |       | 1-  | A    | C5      |
| L 1004 | M.RFC       | 0.022uH  |       | 2%   | C1608CB-22NG           | L1691036  |       | 1-  | A    | B4      |
| L 1005 | M.RFC       | 0.015uH  |       |      | TFL0816-15             | L1690493  |       | 1-  | B    | e3      |
| L 1006 | M.RFC       | 0.01uH   |       | 2%   | C1608CB-10NG           | L1691032  |       | 1-  | A    | C3      |
| L 1007 | M.RFC       | 0.082uH  |       | 2%   | C1608CB-82NG           | L1691044  |       | 1-  | A    | B3      |
| L 1008 | M.RFC       | 0.39uH   |       | 2%   | C1608CB-R39G           | L1691107  |       | 1-  | A    | E4      |
| L 1010 | COIL        | 0.056uH  |       |      | AS0806-56NK            | L0022540  |       | 1-  | A    | E3      |
| L 1011 | M.RFC       | 0.39uH   |       | 2%   | C1608CB-R39G           | L1691107  |       | 1-  | A    | D4      |
| L 1012 | CHIP COIL   | 0.012uH  |       |      | LQW18AN12NG00D         | L1690881  |       | 1-  | A    | E4      |
| L 1013 | COIL        | 0.0068uH |       |      | AS100240-6R8N          | L0022656  |       | 1-  | A    | E3      |
| L 1014 | COIL        | 0.015uH  |       |      | AS0803-15NK            | L0022536  |       | 1-  | A    | F3      |
| L 1015 | CHIP COIL   | 0.012uH  |       |      | LQW18AN12NG00D         | L1690881  |       | 1-  | A    | E3      |
| L 1016 | M.RFC       | 0.47uH   |       |      | LK1608 R47K-T          | L1690414  |       | 1-  | A    | E3      |
| L 1017 | COIL        | 0.015uH  |       |      | AS0803-15NK            | L0022536  |       | 1-  | A    | F2      |
| L 1018 | COIL        | 0.015uH  |       |      | AS0803-15NK            | L0022536  |       | 1-  | A    | F2      |
| L 1019 | COIL        | 0.015uH  |       |      | AS0803-15NK            | L0022536  |       | 1-  | A    | F1      |
| L 1020 | CHIP COIL   | 0.01uH   |       |      | LQW18AN10NG00D         | L1690880  |       | 1-  | A    | F4      |
| L 1024 | CHIP COIL   | 0.01uH   |       |      | LQW18AN10NG00D         | L1690880  |       | 1-  | A    | F3      |
| L 1025 | M.RFC       | 0.39uH   |       |      | LK1608 R39K-T          | L1690413  |       | 1-  | A    | D5      |
| L 1026 | CHIP COIL   | 0.01uH   |       |      | LQW18AN10NG00D         | L1690880  |       | 1-  | A    | E4      |
| L 1027 | M.RFC       | 0.033uH  |       |      | HK1608 33NJ-T          | L1690522  |       | 1-  | A    | F3      |
| L 1028 | CHIP COIL   | 0.039uH  |       |      | LQW18AN39NG00D         | L1690887  |       | 1-  | A    | F3      |
| L 1029 | M.RFC       | 0.047uH  |       |      | HK1608 47NJ-T          | L1690524  |       | 1-  | A    | F4      |
| Q 1001 | TRANSISTOR  |          |       |      | 2SC4154-T11-1E         | G3341548E |       | 1-  | B    | e4      |
| Q 1003 | TRANSISTOR  |          |       |      | DTC144EE TL            | G3070075  |       | 1-  | A    | C5      |
| Q 1004 | TRANSISTOR  |          |       |      | DTC144EE TL            | G3070075  |       | 1-  | A    | C5      |
| Q 1005 | IC          |          |       |      | LM2902PWR              | G1094009  |       | 1-  | B    | d4      |
| Q 1007 | TRANSISTOR  |          |       |      | 2SA1774 TL R           | G3117748R |       | 1-  | A    | C4      |
| Q 1008 | FET         |          |       |      | 2SJ562-TD              | G3705628  |       | 1-  | A    | B3      |
| Q 1009 | TRANSISTOR  |          |       |      | 2SC5374-TL             | G3353748  |       | 1-  | A    | B4      |
| Q 1010 | TRANSISTOR  |          |       |      | 2SC5374-TL             | G3353748  |       | 1-  | A    | B4      |
| Q 1011 | IC          |          |       |      | MB15A01PFV1-G-BND-EFE1 | G1092545  |       | 1-  | A    | C5      |
| Q 1013 | TRANSISTOR  |          |       |      | DTC144EE TL            | G3070075  |       | 1-  | B    | c5      |
| Q 1014 | TRANSISTOR  |          |       |      | DTC144EE TL            | G3070075  |       | 1-  | A    | B3      |
| Q 1015 | IC          |          |       |      | KIA7808API             | G1093164  |       | 1-  | A    | A4      |
| Q 1016 | IC          |          |       |      | S-812C50AUA-C3E-T2G    | G1093652  |       | 1-  | B    | e3      |
| Q 1017 | TRANSISTOR  |          |       |      | 2SC5374-TL             | G3353748  |       | 1-  | A    | B4      |
| Q 1020 | TRANSISTOR  |          |       |      | DTC144EE TL            | G3070075  |       | 1-  | B    | c5      |
| Q 1021 | TRANSISTOR  |          |       |      | 2SC4154-T11-1E         | G3341548E |       | 1-  | B    | e4      |
| Q 1022 | TRANSISTOR  |          |       |      | DTC144EE TL            | G3070075  |       | 1-  | B    | e4      |
| Q 1023 | TRANSISTOR  |          |       |      | 2SC5374-TL             | G3353748  |       | 1-  | A    | B3      |
| Q 1024 | TRANSISTOR  |          |       |      | 2SA1774 TL R           | G3117748R |       | 1-  | B    | e3      |
| Q 1025 | TRANSISTOR  |          |       |      | FMMTL718TA             | G3070335  |       | 1-  | B    | e3      |
| Q 1026 | TRANSISTOR  |          |       |      | 2SC5226-5-TL           | G3352268E |       | 1-  | A    | C3      |
| Q 1027 | TRANSISTOR  |          |       |      | 2SA1774 TL R           | G3117748R |       | 1-  | B    | a4      |
| Q 1028 | IC          |          |       |      | NJM2591V-TE1           | G1094024  |       | 1-  | A    | F4      |
| Q 1029 | TRANSISTOR  |          |       |      | 2SA1774 TL R           | G3117748R |       | 1-  | B    | a4      |
| Q 1030 | IC          |          |       |      | RA55H4047M             | G1094344  |       | 1-  | A    | B1      |
| Q 1031 | TRANSISTOR  |          |       |      | DTC144EE TL            | G3070075  |       | 1-  | B    | b4      |
| Q 1032 | TRANSISTOR  |          |       |      | 2SC4400-4-TL           | G3344008D |       | 1-  | A    | E4      |
| Q 1033 | TRANSISTOR  |          |       |      | 2SC4154-T11-1E         | G3341548E |       | 1-  | A    | E5      |
| Q 1034 | FET         |          |       |      | 2SJ364-Q(TX)           | G3703648Q |       | 1-  | B    | a3      |
| Q 1035 | IC          |          |       |      | LA4425A                | G1092241  |       | 1-  | A    | A5      |
| Q 1036 | FET         |          |       |      | 2SJ364-Q(TX)           | G3703648Q |       | 1-  | B    | b4      |
| Q 1037 | FET         |          |       |      | 3SK296ZQ-TL            | G4802968  |       | 1-  | A    | E4      |
| Q 1038 | IC          |          |       |      | LM2904PWR              | G1094010  |       | 1-  | B    | b3      |
| Q 1039 | FET         |          |       |      | 2SJ347 TE85R           | G3703477  |       | 1-  | B    | c4      |
| Q 1040 | TRANSISTOR  |          |       |      | DTC144EE TL            | G3070075  |       | 1-  | B    | c4      |
| Q 1041 | FET         |          |       |      | 2SJ364-Q(TX)           | G3703648Q |       | 1-  | B    | b4      |
| Q 1042 | FET         |          |       |      | 2SJ364-Q(TX)           | G3703648Q |       | 1-  | B    | a5      |
| Q 1043 | IC          |          |       |      | M62364FP 600D          | G1093033  |       | 1-  | B    | f5      |
| Q 1044 | IC          |          |       |      | LM2904PWR              | G1094010  |       | 1-  | B    | c4      |
| Q 1045 | FET         |          |       |      | 3SK296ZQ-TL            | G4802968  |       | 1-  | A    | F3      |
| Q 1046 | TRANSISTOR  |          |       |      | 2SC4154-T11-1E         | G3341548E |       | 1-  | B    | b3      |
| Q 1047 | TRANSISTOR  |          |       |      | 2SC4154-T11-1E         | G3341548E |       | 1-  | B    | c3      |
| Q 1048 | IC          |          |       |      | CD4094BPWR             | G1093866  |       | 1-  | A    | D5      |
| Q 1049 | IC          |          |       |      | LM2902PWR              | G1094009  |       | 1-  | B    | b5      |
| Q 1050 | IC          |          |       |      | LM2904PWR              | G1094010  |       | 1-  | B    | f5      |
| Q 1051 | TRANSISTOR  |          |       |      | 2SC4617 TL R           | G3346178R |       | 1-  | A    | F4      |
| Q 1053 | TRANSISTOR  |          |       |      | 2SC4617 TL R           | G3346178R |       | 1-  | A    | D5      |
| Q 1054 | TRANSISTOR  |          |       |      | 2SC4915-O(TE85L)       | G3349158O |       | 1-  | A    | D5      |
| Q 1055 | FET         |          |       |      | 2SJ364-Q(TX)           | G3703648Q |       | 1-  | A    | D5      |
| R 1001 | CHIP RES.   | 3.3k     | 1/16W | 5%   | RMC1/16S 332JTH        | J24189031 |       | 1-  | B    | e4      |
| R 1002 | CHIP RES.   | 100k     | 1/16W | 5%   | RMC1/16S 104JTH        | J24189049 |       | 1-  | A    | B5      |
| R 1003 | CHIP RES.   | 47k      | 1/16W | 5%   | RMC1/16S 473JTH        | J24189045 |       | 1-  | A    | B5      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|-------|-----|------|---------|
| R 1004 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | A    | B5      |
| R 1005 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |       | 1-  | A    | B5      |
| R 1006 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 |       | 1-  | A    | C5      |
| R 1007 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-  | A    | C5      |
| R 1008 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-  | A    | C5      |
| R 1009 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-  | A    | C5      |
| R 1010 | CHIP RES.   | 1.5k  | 1/16W | 5%   | RMC1/16S 152JTH | J24189027 |       | 1-  | A    | C5      |
| R 1011 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | A    | C5      |
| R 1012 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |       | 1-  | A    | C5      |
| R 1013 | CHIP RES.   | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |       | 1-  | A    | C4      |
| R 1017 | CHIP RES.   | 15k   | 1/16W | 5%   | RMC1/16S 153JTH | J24189039 |       | 1-  | B    | c4      |
| R 1018 | CHIP RES.   | 150k  | 1/16W | 5%   | RMC1/16S 154JTH | J24189051 |       | 1-  | B    | c4      |
| R 1019 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | B    | c4      |
| R 1020 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 |       | 1-  | B    | c4      |
| R 1022 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | c4      |
| R 1023 | CHIP RES.   | 68k   | 1/16W | 5%   | RMC1/16S 683JTH | J24189047 |       | 1-  | B    | d4      |
| R 1025 | CHIP RES.   | 18k   | 1/16W | 5%   | RMC1/16S 183JTH | J24189040 |       | 1-  | B    | c4      |
| R 1026 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | B    | c4      |
| R 1027 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | A    | B3      |
| R 1028 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | A    | B4      |
| R 1029 | CHIP RES.   | 220   | 1/16W | 5%   | RMC1/16S 221JTH | J24189017 |       | 1-  | A    | B4      |
| R 1030 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | A    | B4      |
| R 1031 | CHIP RES.   | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |       | 1-  | A    | B4      |
| R 1032 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | A    | B4      |
| R 1033 | CHIP RES.   | 3.3k  | 1/16W | 5%   | RMC1/16S 332JTH | J24189031 |       | 1-  | A    | C5      |
| R 1034 | CHIP RES.   | 330   | 1/16W | 5%   | RMC1/16S 331JTH | J24189019 |       | 1-  | A    | B4      |
| R 1035 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 1-  | A    | C4      |
| R 1036 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |       | 1-  | A    | C4      |
| R 1037 | CHIP RES.   | 680   | 1/16W | 5%   | RMC1/16S 681JTH | J24189023 |       | 1-  | A    | C5      |
| R 1038 | CHIP RES.   | 22    | 1/16W | 5%   | RMC1/16S 220JTH | J24189005 |       | 1-  | A    | C4      |
| R 1039 | CHIP RES.   | 22    | 1/16W | 5%   | RMC1/16S 220JTH | J24189005 |       | 1-  | A    | D5      |
| R 1040 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | A    | C5      |
| R 1041 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | A    | C5      |
| R 1042 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | A    | C5      |
| R 1043 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | A    | C5      |
| R 1047 | CHIP RES.   | 390k  | 1/16W | 5%   | RMC1/16S 394JTH | J24189056 |       | 1-  | B    | d4      |
| R 1048 | CHIP RES.   | 390k  | 1/16W | 5%   | RMC1/16S 394JTH | J24189056 |       | 1-  | B    | d4      |
| R 1049 | CHIP RES.   | 68k   | 1/16W | 5%   | RMC1/16S 683JTH | J24189047 |       | 1-  | B    | d5      |
| R 1050 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | A    | B3      |
| R 1051 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | A    | C4      |
| R 1052 | CHIP RES.   | 820k  | 1/16W | 5%   | RMC1/16S 824JTH | J24189060 |       | 1-  | A    | C4      |
| R 1053 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | A    | C3      |
| R 1054 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 1-  | A    | C3      |
| R 1055 | CHIP RES.   | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |       | 1-  | A    | C3      |
| R 1056 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-  | A    | D5      |
| R 1057 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | A    | D5      |
| R 1058 | CHIP RES.   | 1M    | 1/16W | 5%   | RMC1/16S 105JTH | J24189061 |       | 1-  | A    | C5      |
| R 1059 | CHIP RES.   | 390k  | 1/16W | 5%   | RMC1/16S 394JTH | J24189056 |       | 1-  | A    | D5      |
| R 1060 | CHIP RES.   | 39k   | 1/16W | 5%   | RMC1/16S 393JTH | J24189044 |       | 1-  | A    | D5      |
| R 1061 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | A    | D5      |
| R 1062 | CHIP RES.   | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |       | 1-  | A    | D5      |
| R 1063 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | A    | D5      |
| R 1064 | CHIP RES.   | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-  | A    | D4      |
| R 1066 | CHIP RES.   | 390k  | 1/16W | 5%   | RMC1/16S 394JTH | J24189056 |       | 1-  | B    | d5      |
| R 1067 | CHIP RES.   | 390k  | 1/16W | 5%   | RMC1/16S 394JTH | J24189056 |       | 1-  | B    | d5      |
| R 1068 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | B    | e4      |
| R 1069 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | A    | B3      |
| R 1070 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | B    | e3      |
| R 1071 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | A    | C3      |
| R 1072 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-  | A    | F4      |
| R 1075 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | a4      |
| R 1076 | CHIP RES.   | 390k  | 1/16W | 5%   | RMC1/16S 394JTH | J24189056 |       | 1-  | A    | F4      |
| R 1077 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |       | 1-  | A    | E4      |
| R 1079 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-  | A    | F4      |
| R 1081 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 1-  | A    | E4      |
| R 1082 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-  | A    | E4      |
| R 1083 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-  | A    | E4      |
| R 1084 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | B    | c4      |
| R 1085 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | B    | c4      |
| R 1086 | CHIP RES.   | 12k   | 1/16W | 5%   | RMC1/16S 123JTH | J24189038 |       | 1-  | B    | d4      |
| R 1087 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | B    | c4      |
| R 1088 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | d4      |
| R 1089 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | d4      |
| R 1090 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-  | B    | e3      |
| R 1091 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-  | B    | e3      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|-------|-----|------|---------|
| R 1092 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-  | B    | e3      |
| R 1093 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 1-  | B    | e3      |
| R 1094 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | A    | B3      |
| R 1095 | CHIP RES.   | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |       | 1-  | A    | B3      |
| R 1096 | CHIP RES.   | 22    | 1/16W | 5%   | RMC1/16S 220JTH | J24189005 |       | 1-  | A    | B3      |
| R 1097 | CHIP RES.   | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |       | 1-  | A    | C3      |
| R 1098 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | a5      |
| R 1100 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | a5      |
| R 1101 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 |       | 1-  | A    | C3      |
| R 1102 | CHIP RES.   | 220   | 1/16W | 5%   | RMC1/16S 221JTH | J24189017 |       | 1-  | B    | b4      |
| R 1103 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-  | B    | b4      |
| R 1104 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | B    | a4      |
| R 1105 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | a4      |
| R 1106 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | a4      |
| R 1107 | CHIP RES.   | 220   | 1/16W | 5%   | RMC1/16S 221JTH | J24189017 |       | 1-  | A    | F5      |
| R 1108 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | a4      |
| R 1109 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | a4      |
| R 1110 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | A    | F5      |
| R 1111 | CHIP RES.   | 5.6k  | 1/16W | 5%   | RMC1/16S 562JTH | J24189034 |       | 1-  | A    | F5      |
| R 1112 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | B    | b4      |
| R 1113 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | a3      |
| R 1115 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 |       | 1-  | A    | C2      |
| R 1117 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | A    | D3      |
| R 1118 | CHIP RES.   | 47    | 1/16W | 5%   | RMC1/16S 470JTH | J24189009 |       | 1-  | B    | b4      |
| R 1119 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 1-  | A    | E4      |
| R 1120 | CHIP RES.   | 220   | 1/16W | 5%   | RMC1/16S 221JTH | J24189017 |       | 1-  | A    | E4      |
| R 1121 | CHIP RES.   | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |       | 1-  | A    | E4      |
| R 1122 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | A    | E5      |
| R 1123 | CHIP RES.   | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-  | B    | a3      |
| R 1124 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | B    | b4      |
| R 1125 | CHIP RES.   | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-  | B    | b3      |
| R 1126 | CHIP RES.   | 1     | 1/10W | 5%   | RMC1/10T 1R0J   | J24205010 |       | 1-  | B    | f3      |
| R 1127 | CHIP RES.   | 10    | 1/16W | 5%   | RMC1/16S 100JTH | J24189001 |       | 1-  | B    | e5      |
| R 1128 | CHIP RES.   | 0.33  | 1W    | 10%  | RMC1 R33KATE    | J24309001 |       | 1-  | A    | B4      |
| R 1129 | CHIP RES.   | 10    | 1/16W | 5%   | RMC1/16S 100JTH | J24189001 |       | 1-  | B    | e5      |
| R 1130 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | B    | c3      |
| R 1131 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | B    | c3      |
| R 1133 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | B    | b3      |
| R 1134 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | B    | b3      |
| R 1135 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | B    | b3      |
| R 1136 | CHIP RES.   | 470   | 1/16W | 5%   | RMC1/16S 471JTH | J24189021 |       | 1-  | A    | E4      |
| R 1137 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | A    | D4      |
| R 1138 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-  | A    | D4      |
| R 1139 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | b4      |
| R 1140 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16S 333JTH | J24189043 |       | 1-  | B    | b4      |
| R 1141 | CHIP RES.   | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-  | B    | b4      |
| R 1142 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | B    | e5      |
| R 1143 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-  | B    | b5      |
| R 1144 | CHIP RES.   | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-  | B    | a5      |
| R 1145 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-  | A    | E3      |
| R 1146 | CHIP RES.   | 100   | 1W    | 5%   | RMC1 101JTE     | J24305101 |       | 1-  | A    | E3      |
| R 1147 | CHIP RES.   | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |       | 1-  | B    | b3      |
| R 1148 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | b3      |
| R 1149 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | A    | D3      |
| R 1150 | CHIP RES.   | 150k  | 1/16W | 5%   | RMC1/16S 154JTH | J24189051 |       | 1-  | A    | E3      |
| R 1152 | CHIP RES.   | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |       | 1-  | A    | E4      |
| R 1153 | CHIP RES.   | 150   | 1/16W | 5%   | RMC1/16S 151JTH | J24189015 |       | 1-  | A    | E4      |
| R 1154 | CHIP RES.   | 39k   | 1/16W | 5%   | RMC1/16S 393JTH | J24189044 |       | 1-  | A    | E3      |
| R 1156 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16S 473JTH | J24189045 |       | 1-  | A    | E4      |
| R 1157 | CHIP RES.   | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-  | B    | c4      |
| R 1158 | CHIP RES.   | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-  | B    | b4      |
| R 1159 | CHIP RES.   | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-  | B    | b4      |
| R 1160 | CHIP RES.   | 15k   | 1/16W | 5%   | RMC1/16S 153JTH | J24189039 |       | 1-  | B    | b5      |
| R 1161 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | B    | a5      |
| R 1162 | CHIP RES.   | 2.2M  | 1/16W | 5%   | RMC1/16S 225JTH | J24189065 |       | 1-  | B    | b5      |
| R 1163 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | a5      |
| R 1164 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16 103FTP  | J24183103 |       | 1-  | B    | b5      |
| R 1165 | CHIP RES.   | 100k  | 1/16W | 1%   | RMC1/16 104FTP  | J24183104 |       | 1-  | B    | b5      |
| R 1166 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | B    | f5      |
| R 1167 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | B    | f5      |
| R 1168 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | B    | e5      |
| R 1169 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | a3      |
| R 1170 | CHIP RES.   | 15k   | 1/16W | 5%   | RMC1/16S 153JTH | J24189039 |       | 1-  | B    | a3      |
| R 1171 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | A    | E3      |
| R 1172 | CHIP RES.   | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |       | 1-  | A    | E4      |

# MAIN Unit

## Parts List

| REF    | DESCRIPTION | VALUE | V/W   | TOL. | MFR'S DESIG     | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|-------------|-------|-------|------|-----------------|-----------|-------|-----|------|---------|
| R 1173 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 1-  | A    | F3      |
| R 1175 | CHIP RES.   | 47    | 1/16W | 5%   | RMC1/16S 470JTH | J24189009 |       | 1-  | A    | F4      |
| R 1177 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | A    | F3      |
| R 1178 | CHIP RES.   | 150k  | 1/16W | 5%   | RMC1/16S 154JTH | J24189051 |       | 1-  | A    | F3      |
| R 1179 | CHIP RES.   | 680   | 1/16W | 0.5% | MCR01MZPD6800   | J24189360 |       | 1-  | B    | c4      |
| R 1180 | CHIP RES.   | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |       | 1-  | B    | b3      |
| R 1181 | CHIP RES.   | 2.7k  | 1/16W | 5%   | RMC1/16S 272JTH | J24189030 |       | 1-  | B    | b3      |
| R 1182 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 1-  | B    | b4      |
| R 1183 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | b3      |
| R 1184 | CHIP RES.   | 33k   | 1/16W | 5%   | RMC1/16S 333JTH | J24189043 |       | 1-  | B    | b3      |
| R 1185 | CHIP RES.   | 33k   | 1/16W | 0.5% | MCR01MZPD3302   | J24189380 |       | 1-  | B    | c4      |
| R 1186 | CHIP RES.   | 33k   | 1/16W | 0.5% | MCR01MZPD3302   | J24189380 |       | 1-  | B    | c4      |
| R 1187 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-  | B    | b4      |
| R 1188 | CHIP RES.   | 100k  | 1/16W | 0.5% | MCR01MZPD1003   | J24189386 |       | 1-  | B    | c4      |
| R 1189 | CHIP RES.   | 47k   | 1/16W | 0.5% | MCR01MZPD4702   | J24189382 |       | 1-  | B    | c4      |
| R 1190 | CHIP RES.   | 470k  | 1/16W | 0.5% | MCR01MZPD4703   | J24189332 |       | 1-  | B    | c4      |
| R 1191 | CHIP RES.   | 2.2M  | 1/16W | 5%   | RMC1/16S 225JTH | J24189065 |       | 1-  | B    | a5      |
| R 1192 | CHIP RES.   | 68k   | 1/16W | 1%   | RMC1/16 683FTP  | J24183683 |       | 1-  | B    | b5      |
| R 1193 | CHIP RES.   | 4.7k  | 1/16W | 1%   | RMC1/16 472FTP  | J24183472 |       | 1-  | B    | a5      |
| R 1194 | CHIP RES.   | 4.7k  | 1/16W | 1%   | RMC1/16 472FTP  | J24183472 |       | 1-  | B    | a5      |
| R 1195 | CHIP RES.   | 10k   | 1/16W | 1%   | RMC1/16 103FTP  | J24183103 |       | 1-  | B    | a5      |
| R 1196 | CHIP RES.   | 68k   | 1/16W | 5%   | RMC1/16S 683JTH | J24189047 |       | 1-  | B    | a5      |
| R 1197 | CHIP RES.   | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |       | 1-  | B    | a5      |
| R 1198 | CHIP RES.   | 100   | 1/16W | 5%   | RMC1/16S 101JTH | J24189013 |       | 1-  | B    | f5      |
| R 1199 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 |       | 1-  | B    | f5      |
| R 1200 | CHIP RES.   | 330k  | 1/16W | 0.5% | MCR01MZPD3303   | J24189330 |       | 1-  | B    | f5      |
| R 1201 | CHIP RES.   | 220k  | 1/16W | 0.5% | MCR01MZPD2203   | J24189389 |       | 1-  | B    | f5      |
| R 1202 | CHIP RES.   | 330k  | 1/16W | 0.5% | MCR01MZPD3303   | J24189330 |       | 1-  | B    | f5      |
| R 1203 | CHIP RES.   | 470k  | 1/16W | 0.5% | MCR01MZPD4703   | J24189332 |       | 1-  | B    | f5      |
| R 1204 | CHIP RES.   | 330k  | 1/16W | 0.5% | MCR01MZPD3303   | J24189330 |       | 1-  | B    | f5      |
| R 1205 | CHIP RES.   | 56k   | 1/16W | 0.5% | MCR01MZPD5602   | J24189383 |       | 1-  | B    | f5      |
| R 1206 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-  | B    | a2      |
| R 1209 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | A    | F4      |
| R 1210 | CHIP RES.   | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |       | 1-  | A    | E4      |
| R 1212 | CHIP RES.   | 150k  | 1/16W | 5%   | RMC1/16S 154JTH | J24189051 |       | 1-  | B    | b3      |
| R 1213 | CHIP RES.   | 2.2M  | 1/16W | 5%   | RMC1/16S 225JTH | J24189065 |       | 1-  | B    | b3      |
| R 1214 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-  | B    | c3      |
| R 1215 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | c3      |
| R 1216 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 |       | 1-  | B    | c3      |
| R 1217 | CHIP RES.   | 22k   | 1/16W | 0.5% | MCR01MZPD2202   | J24189378 |       | 1-  | B    | c4      |
| R 1218 | CHIP RES.   | 10k   | 1/16W | 0.5% | MCR01MZPD1002   | J24189374 |       | 1-  | B    | c4      |
| R 1219 | CHIP RES.   | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-  | B    | a5      |
| R 1220 | CHIP RES.   | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |       | 1-  | B    | a5      |
| R 1221 | CHIP RES.   | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-  | B    | a5      |
| R 1222 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | a5      |
| R 1223 | CHIP RES.   | 68k   | 1/16W | 5%   | RMC1/16S 683JTH | J24189047 |       | 1-  | B    | b5      |
| R 1224 | CHIP RES.   | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-  | B    | b5      |
| R 1225 | CHIP RES.   | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-  | A    | D5      |
| R 1226 | CHIP RES.   | 5.6k  | 1/16W | 5%   | RMC1/16S 562JTH | J24189034 |       | 1-  | B    | a2      |
| R 1228 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-  | B    | a5      |
| R 1229 | CHIP RES.   | 330k  | 1/16W | 5%   | RMC1/16S 334JTH | J24189055 |       | 1-  | B    | a5      |
| R 1230 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |       | 1-  | B    | a5      |
| R 1231 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 |       | 1-  | B    | b5      |
| R 1234 | CHIP RES.   | 3.3k  | 1/16W | 5%   | RMC1/16S 332JTH | J24189031 |       | 1-  | A    | F4      |
| R 1235 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | A    | F4      |
| R 1236 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-  | A    | F4      |
| R 1237 | CHIP RES.   | 680   | 1/16W | 5%   | RMC1/16S 681JTH | J24189023 |       | 1-  | A    | F4      |
| R 1238 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-  | B    | b5      |
| R 1239 | CHIP RES.   | 2.2k  | 1/16W | 5%   | RMC1/16S 222JTH | J24189029 |       | 1-  | B    | b5      |
| R 1240 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | B    | a5      |
| R 1241 | CHIP RES.   | 4.7k  | 1/16W | 5%   | RMC1/16S 472JTH | J24189033 |       | 1-  | B    | b5      |
| R 1242 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |       | 1-  | A    | D5      |
| R 1243 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |       | 1-  | A    | D5      |
| R 1244 | CHIP RES.   | 150k  | 1/16W | 5%   | RMC1/16S 154JTH | J24189051 |       | 1-  | B    | c4      |
| R 1245 | CHIP RES.   | 100k  | 1/16W | 5%   | RMC1/16S 104JTH | J24189049 |       | 1-  | B    | c4      |
| R 1246 | CHIP RES.   | 1.5k  | 1/16W | 5%   | RMC1/16S 152JTH | J24189027 |       | 1-  | A    | C5      |
| R 1247 | CHIP RES.   | 470k  | 1/16W | 5%   | RMC1/16S 474JTH | J24189057 |       | 1-  | B    | b4      |
| R 1248 | CHIP RES.   | 10k   | 1/16W | 5%   | RMC1/16S 103JTH | J24189037 |       | 1-  | A    | D5      |
| R 1250 | CHIP RES.   | 22k   | 1/16W | 5%   | RMC1/16S 223JTH | J24189041 |       | 1-  | A    | D5      |
| R 1251 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 |       | 1-  | A    | D5      |
| R 1252 | CHIP RES.   | 1M    | 1/16W | 5%   | RMC1/16S 105JTH | J24189061 |       | 1-  | A    | D5      |
| R 1253 | CHIP RES.   | 1k    | 1/16W | 5%   | RMC1/16S 102JTH | J24189025 |       | 1-  | A    | D5      |
| R 1254 | CHIP RES.   | 0     | 1/16W | 5%   | RMC1/16S JPTH   | J24189070 |       | 1-  | A    | E5      |
| R 1255 | CHIP RES.   | 220k  | 1/16W | 5%   | RMC1/16S 224JTH | J24189053 |       | 1-  | A    | D5      |
| R 1256 | CHIP RES.   | 47k   | 1/16W | 5%   | RMC1/16 473JATP | J24185473 |       | 1-  | A    | D5      |



# MAIN Unit

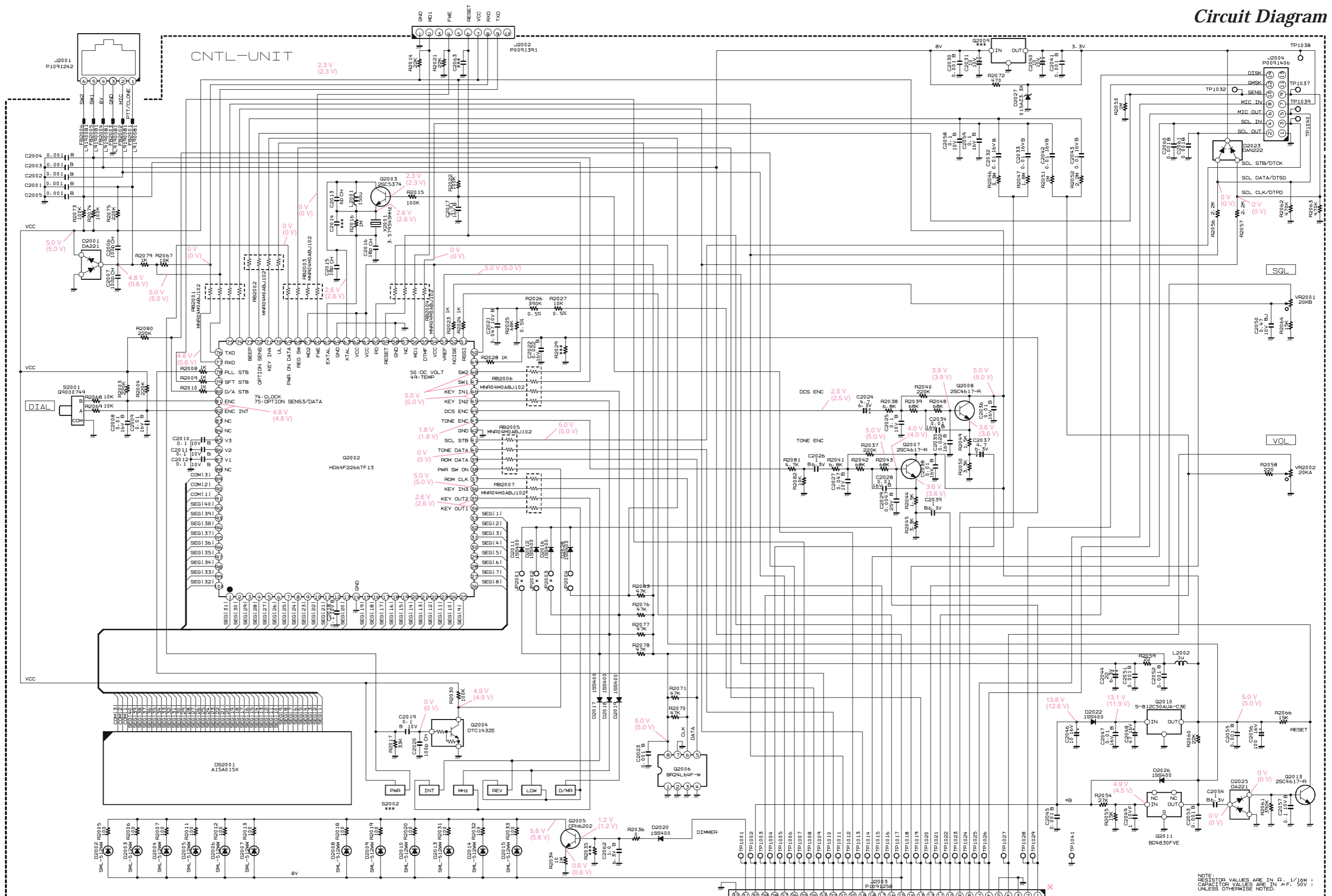
## Parts List

| REF    | DESCRIPTION   | VALUE   | V/W   | TOL. | MFR'S DESIG      | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|---------------|---------|-------|------|------------------|-----------|-------|-----|------|---------|
| R 1257 | CHIP RES.     | 2.7k    | 1/16W | 5%   | RMC1/16S 272JTH  | J24189030 |       | 1-  | B    | a3      |
| R 1258 | CHIP RES.     | 47k     | 1/16W | 1%   | RMC1/16 473FTP   | J24183473 |       | 1-  | A    | F1      |
| R 1259 | CHIP RES.     | 22      | 1/16W | 5%   | RMC1/16S 220JTH  | J24189005 |       | 1-  | A    | F4      |
| R 1260 | CHIP RES.     | 470k    | 1/16W | 5%   | RMC1/16S 474JTH  | J24189057 |       | 1-  | A    | D5      |
| TH1002 | THERMISTOR    |         |       |      | ERTJ1VV473J      | G9090122  |       | 1-  | A    | D3      |
| TH1003 | THERMISTOR    |         |       |      | ERTJ0ET102J      | G9090131  |       | 1-  | B    | a3      |
| X 1001 | XTAL NX5032SA | 11.7MHz |       |      | 11.7MHZ          | H0103320  |       | 1-  | A    | D5      |
| XF1001 | XTAL FILTER   |         |       |      | 47R15A 47.250MHZ | H1102400  |       | 1-  | A    | E4      |
| XF1002 | XTAL FILTER   |         |       |      | 47R15A 47.250MHZ | H1102400  |       | 1-  | A    | D4      |
|        | SHIELD CASE   |         |       |      |                  | RA0515300 |       | 1-  |      |         |
|        | SHIELD PLATE  |         |       |      | PA               | R0124501  |       | 1-  |      |         |

*MAIN Unit*

*Note*

# CNTL Unit Circuit Diagram



J2003

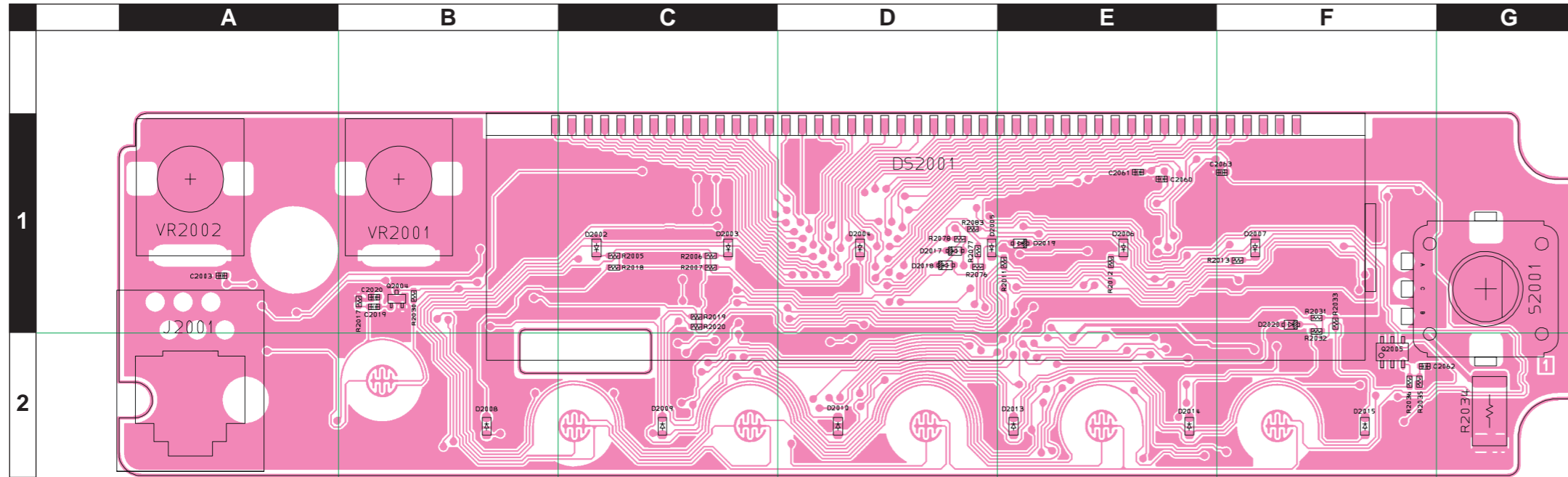
| Pin | RX    | TX    |
|-----|-------|-------|
| 1   | 5.0V  | 5.0V  |
| 2   | 0V    | 0V    |
| 3   | 0V    | 0V    |
| 4   | 0V    | 0V    |
| 5   | 0V    | 0V    |
| 6   | 0V    | 0V    |
| 7   | 0V    | 0V    |
| 8   | 1.9V  | 1.9V  |
| 9   | 3.0V  | 3.0V  |
| 10  | 0V    | 0V    |
| 11  | 1.1V  | 0V    |
| 12  | 3.2V  | 0V    |
| 13  | 4.9V  | 4.9V  |
| 14  | 0V    | 0V    |
| 15  | 8.0V  | 8.0V  |
| 16  | 0.6V  | 0V    |
| 17  | 0V    | 0V    |
| 18  | 0V    | 0V    |
| 19  | ...   | ...   |
| 20  | 5.0V  | 5.0V  |
| 21  | ...   | ...   |
| 22  | ...   | ...   |
| 23  | ...   | ...   |
| 24  | 13.8V | 12.3V |
| 25  | ...   | ...   |
| 26  | ...   | ...   |
| 27  | 0V    | 0V    |
| 28  | 0V    | 0V    |
| 29  | 0V    | 0V    |
| 30  | 13.8V | 12.4V |
| 31  | 3.1V  | 3.1V  |
| 32  | ...   | ...   |

RX : XX  
TX : (XX)  
Frequency : 430.000 MHz

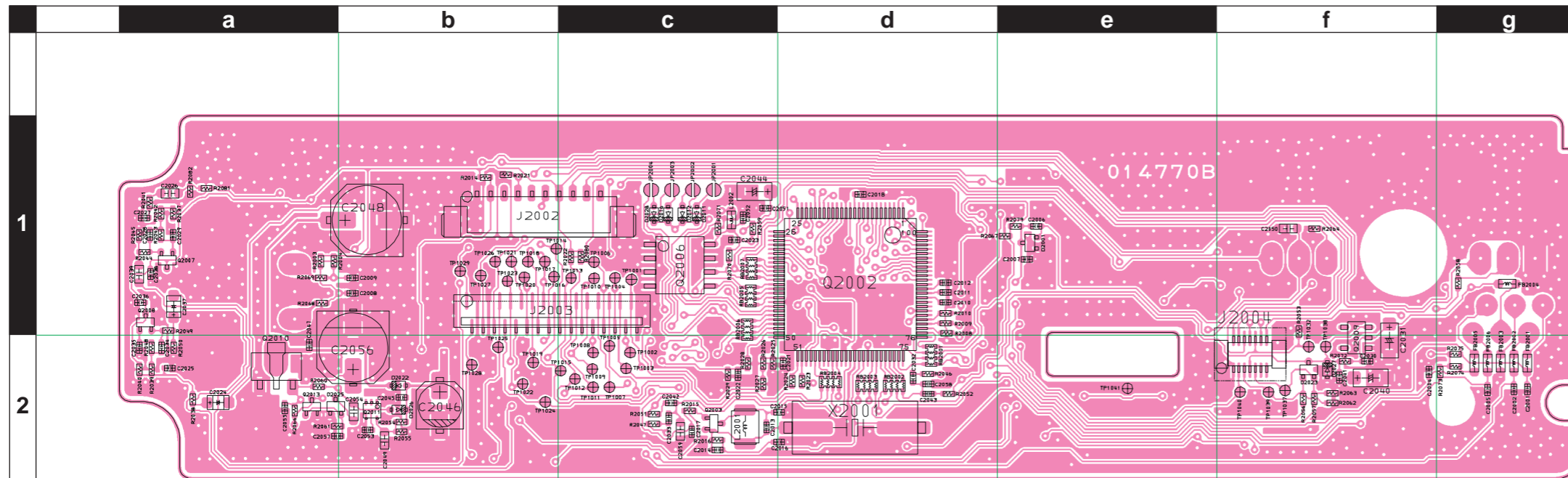
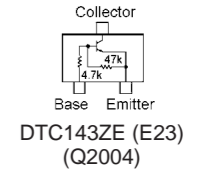
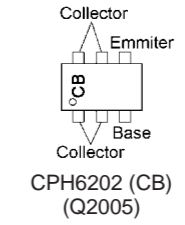
NOTE:  
RESISTOR VALUES ARE IN Ω, K, M, 1/16W ;  
CAPACITOR VALUES ARE IN pF, 50V ;  
UNLESS OTHERWISE NOTED

# CNTL Unit

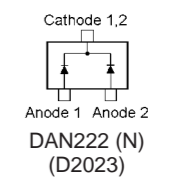
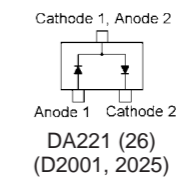
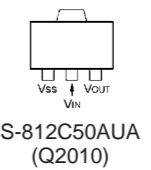
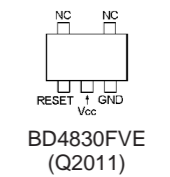
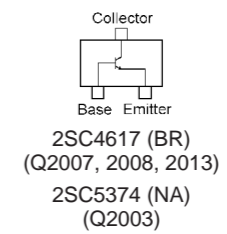
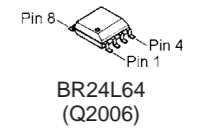
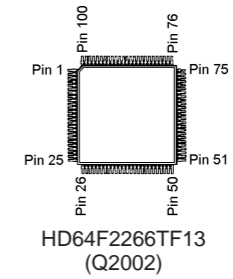
## Parts Layout



(Side A)



(Side B)



| REF                   | DESCRIPTION     | VALUE    | V/W  | TOL. | MFR'S DESIG        | VXSTD P/N | VERS.       | LOT | SIDE | LAY ADR |
|-----------------------|-----------------|----------|------|------|--------------------|-----------|-------------|-----|------|---------|
| PCB with Components   |                 |          |      |      |                    | CB3540001 | FT-1807M A2 |     |      |         |
|                       |                 |          |      |      |                    | CB3540002 | FT-1807M A1 |     |      |         |
|                       |                 |          |      |      |                    | CB3540003 | FT-1807M A3 |     |      |         |
|                       |                 |          |      |      |                    | CB3540004 | FT-1807E B1 |     |      |         |
|                       |                 |          |      |      |                    | CB3540005 | FT-1807E B2 |     |      |         |
|                       |                 |          |      |      |                    | CB3540006 | FT-1807M B3 |     |      |         |
|                       |                 |          |      |      |                    | CB3540007 | FT-1807E C1 |     |      |         |
|                       |                 |          |      |      |                    | CB3540008 | FT-1807E C2 |     |      |         |
|                       |                 |          |      |      |                    | CB3540009 | FT-1807M C3 |     |      |         |
|                       |                 |          |      |      |                    | CB3540010 | FT-1807E D1 |     |      |         |
|                       |                 |          |      |      |                    | CB3540011 | FT-1807E D2 |     |      |         |
| Printed Circuit Board |                 |          |      |      | AH023U000          | FR014770B |             | 1-  |      |         |
| C 2001                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |             | 1-  | B    | g2      |
| C 2002                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |             | 1-  | B    | g2      |
| C 2003                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |             | 1-  | A    | A1      |
| C 2004                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |             | 1-  | B    | f2      |
| C 2005                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |             | 1-  | B    | g2      |
| C 2006                | CHIP CAP.       | 100pF    | 50V  | CH   | GRM1552C1H101JD01D | K22178236 |             | 1-  | B    | e1      |
| C 2007                | CHIP CAP.       | 100pF    | 50V  | CH   | GRM1552C1H101JD01D | K22178236 |             | 1-  | B    | e1      |
| C 2008                | CHIP CAP.       | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |             | 1-  | B    | b1      |
| C 2009                | CHIP CAP.       | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |             | 1-  | B    | b1      |
| C 2010                | CHIP CAP.       | 0.1uF    | 10V  | B    | GRM36B104K10PT     | K22108802 |             | 1-  | B    | d1      |
| C 2011                | CHIP CAP.       | 0.1uF    | 10V  | B    | GRM36B104K10PT     | K22108802 |             | 1-  | B    | d1      |
| C 2012                | CHIP CAP.       | 0.1uF    | 10V  | B    | GRM36B104K10PT     | K22108802 |             | 1-  | B    | d1      |
| C 2013                | CHIP CAP.       | 6pF      | 50V  | CH   | GRM1552C1H6R0DZ01D | K22178208 |             | 1-  | B    | c2      |
| C 2015                | CHIP CAP.       | 18pF     | 50V  | CH   | GRM1552C1H180JZ01D | K22178218 |             | 1-  | B    | d2      |
| C 2016                | CHIP CAP.       | 18pF     | 50V  | CH   | GRM1552C1H180JZ01D | K22178218 |             | 1-  | B    | d2      |
| C 2017                | CHIP CAP.       | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |             | 1-  | B    | c2      |
| C 2018                | CHIP CAP.       | 0.1uF    | 10V  | B    | GRM36B104K10PT     | K22108802 |             | 1-  | B    | d1      |
| C 2019                | CHIP CAP.       | 0.1uF    | 10V  | B    | GRM36B104K10PT     | K22108802 |             | 1-  | A    | B1      |
| C 2020                | CHIP CAP.       | 100pF    | 50V  | CH   | GRM1552C1H101JD01D | K22178236 |             | 1-  | A    | B1      |
| C 2021                | CHIP CAP.       | 0.047uF  | 10V  | B    | GRM36B473K10PT     | K22108801 |             | 1-  | B    | d2      |
| C 2022                | CHIP CAP.       | 0.022uF  | 16V  | B    | GRM36B223K16PT     | K22128806 |             | 1-  | B    | c2      |
| C 2023                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |             | 1-  | B    | c1      |
| C 2024                | CHIP TA.CAP.    | 4.7uF    | 6.3V |      | TESVSP0J475M-8R    | K78080053 |             | 1-  | B    | a2      |
| C 2025                | CHIP CAP.       | 0.1uF    | 10V  | B    | GRM36B104K10PT     | K22108802 |             | 1-  | B    | a2      |
| C 2026                | CHIP CAP.       | 1uF      | 6.3V | B    | GRM188B10J105KA01D | K22084801 |             | 1-  | B    | a1      |
| C 2027                | CHIP CAP.       | 0.047uF  | 10V  | B    | GRM36B473K10PT     | K22108801 |             | 1-  | B    | a1      |
| C 2028                | CHIP CAP.       | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |             | 1-  | B    | a1      |
| C 2029                | CHIP CAP.       | 0.0047uF | 25V  | B    | GRM36B472K25PT     | K22148830 |             | 1-  | B    | a1      |
| C 2030                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |             | 1-  | B    | f2      |
| C 2031                | CHIP TA.CAP.    | 10uF     | 10V  |      | TAJA106M010Y       | K78100072 |             | 1-  | B    | f2      |
| C 2032                | CHIP CAP.       | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |             | 1-  | B    | d2      |
| C 2033                | CHIP CAP.       | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |             | 1-  | B    | c2      |
| C 2034                | CHIP CAP.       | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |             | 1-  | B    | a2      |
| C 2035                | CHIP CAP.       | 0.022uF  | 16V  | B    | GRM36B223K16PT     | K22128806 |             | 1-  | B    | a2      |
| C 2036                | CHIP CAP.       | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |             | 1-  | B    | a1      |
| C 2037                | CHIP TA.CAP.    | 4.7uF    | 6.3V |      | TESVSP0J475M-8R    | K78080053 |             | 1-  | B    | a1      |
| C 2038                | CHIP CAP.       | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |             | 1-  | B    | a1      |
| C 2039                | CHIP CAP.       | 1uF      | 6.3V | B    | GRM188B10J105KA01D | K22084801 |             | 1-  | B    | a1      |
| C 2040                | CHIP TA.CAP.    | 10uF     | 10V  |      | TAJA106M010Y       | K78100072 |             | 1-  | B    | f2      |
| C 2041                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |             | 1-  | B    | f2      |
| C 2042                | CHIP CAP.       | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |             | 1-  | B    | c2      |
| C 2043                | CHIP CAP.       | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |             | 1-  | B    | d2      |
| C 2044                | CHIP TA.CAP.    | 22uF     | 6.3V |      | TAJA226M006Y       | K78080086 |             | 1-  | B    | c1      |
| C 2045                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |             | 1-  | B    | b2      |
| C 2046                | AL.ELECTRO.CAP. | 10uF     | 16V  |      | RV4-16V100MD46-RR2 | K48120018 |             | 1-  | B    | b2      |
| C 2047                | CHIP CAP.       | 0.01uF   | 16V  | B    | GRM36B103K16PT     | K22128804 |             | 1-  | B    | a2      |
| C 2048                | AL.ELECTRO.CAP. | 47uF     | 16V  |      | RV4-16V470MF46-RR2 | K48120019 |             | 1-  | B    | b1      |
| C 2049                | CHIP CAP.       | 1uF      | 10V  | F    | GRM188F11A105ZA01D | K22105001 |             | 1-  | B    | b2      |
| C 2050                | CHIP CAP.       | 0.47uF   | 10V  | BJ   | LMK107BJ474KA-T    | K22104803 |             | 1-  | B    | f1      |
| C 2051                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |             | 1-  | B    | c1      |
| C 2052                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |             | 1-  | B    | c1      |
| C 2053                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |             | 1-  | B    | b2      |
| C 2054                | CHIP CAP.       | 1uF      | 6.3V | B    | GRM188B10J105KA01D | K22084801 |             | 1-  | B    | b2      |
| C 2055                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |             | 1-  | B    | a2      |
| C 2056                | AL.ELECTRO.CAP. | 100uF    | 16V  |      | EEE1CA101WP        | K48120012 |             | 1-  | B    | b2      |
| C 2057                | CHIP CAP.       | 0.1uF    | 10V  | B    | GRM36B104K10PT     | K22108802 |             | 1-  | B    | a2      |
| C 2058                | CHIP CAP.       | 0.1uF    | 10V  | B    | GRM36B104K10PT     | K22108802 |             | 1-  | B    | d2      |
| C 2059                | CHIP CAP.       | 0.1uF    | 16V  | B    | GRM188B11C104KA01D | K22124805 |             | 1-  | B    | c2      |
| C 2060                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |             | 1-  | A    | E1      |
| C 2061                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |             | 1-  | A    | E1      |
| C 2062                | CHIP CAP.       | 1uF      | 6.3V | B    | GRM155B30J105KE18D | K22088803 |             | 1-  | A    | F2      |
| C 2063                | CHIP CAP.       | 0.001uF  | 50V  | B    | GRM155B11H102KA01D | K22178809 |             | 1-  | A    | F1      |
| D 2001                | DIODE           |          |      |      | DA221 TL           | G2070178  |             | 1-  | B    | e1      |

# CNTL Unit

## Parts List

| REF    | DESCRIPTION   | VALUE | V/W   | TOL. | MFR'S DESIG          | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|--------|---------------|-------|-------|------|----------------------|-----------|-------|-----|------|---------|
| D 2002 | LED           |       |       |      | SML-512WWT86         | G2071104  |       | 1-  | A    | C1      |
| D 2003 | LED           |       |       |      | SML-512WWT86         | G2071104  |       | 1-  | A    | C1      |
| D 2004 | LED           |       |       |      | SML-512WWT86         | G2071104  |       | 1-  | A    | D1      |
| D 2005 | LED           |       |       |      | SML-512WWT86         | G2071104  |       | 1-  | A    | D1      |
| D 2006 | LED           |       |       |      | SML-512WWT86         | G2071104  |       | 1-  | A    | E1      |
| D 2007 | LED           |       |       |      | SML-512WWT86         | G2071104  |       | 1-  | A    | F1      |
| D 2008 | LED           |       |       |      | SML-512WWT86         | G2071104  |       | 1-  | A    | B2      |
| D 2009 | LED           |       |       |      | SML-512WWT86         | G2071104  |       | 1-  | A    | C2      |
| D 2010 | LED           |       |       |      | SML-512WWT86         | G2071104  |       | 1-  | A    | D2      |
| D 2011 | DIODE         |       |       |      | 1SS400 TE61          | G2070634  |       | 1-  | B    | c1      |
| D 2012 | DIODE         |       |       |      | 1SS400 TE61          | G2070634  |       | 1-  | B    | c1      |
| D 2013 | LED           |       |       |      | SML-512WWT86         | G2071104  |       | 1-  | A    | E2      |
| D 2014 | LED           |       |       |      | SML-512WWT86         | G2071104  |       | 1-  | A    | E2      |
| D 2015 | LED           |       |       |      | SML-512WWT86         | G2071104  |       | 1-  | A    | F2      |
| D 2016 | DIODE         |       |       |      | 1SS400 TE61          | G2070634  |       | 1-  | B    | c1      |
| D 2017 | DIODE         |       |       |      | 1SS400 TE61          | G2070634  |       | 1-  | A    | D1      |
| D 2018 | DIODE         |       |       |      | 1SS400 TE61          | G2070634  |       | 1-  | A    | D1      |
| D 2019 | DIODE         |       |       |      | 1SS400 TE61          | G2070634  |       | 1-  | A    | E1      |
| D 2020 | DIODE         |       |       |      | 1SS400 TE61          | G2070634  |       | 1-  | A    | F1      |
| D 2022 | DIODE         |       |       |      | 1SS400 TE61          | G2070634  |       | 1-  | B    | b2      |
| D 2023 | DIODE         |       |       |      | DAN222 TL            | G2070174  |       | 1-  | B    | f2      |
| D 2025 | DIODE         |       |       |      | DA221 TL             | G2070178  |       | 1-  | B    | a2      |
| D 2026 | DIODE         |       |       |      | 1SS400 TE61          | G2070634  |       | 1-  | B    | b2      |
| D 2027 | DIODE         |       |       |      | 015AZ3.3X-TPH3       | G2071078  |       | 1-  | B    | f2      |
| D 2028 | DIODE         |       |       |      | 1SS400 TE61          | G2070634  |       | 1-  | B    | c1      |
| DS2001 | LCD           |       |       |      | AH023N A15A015X      | G6090169  |       | 1-  | A    | D1      |
| FB2001 | FERRITE BEADS |       |       |      | BK1608HS121-T        | L9190081  |       | 1-  | B    | g2      |
| FB2002 | FERRITE BEADS |       |       |      | BK1608HS121-T        | L9190081  |       | 1-  | B    | g2      |
| FB2003 | FERRITE BEADS |       |       |      | BK1608HS121-T        | L9190081  |       | 1-  | B    | g2      |
| FB2004 | FERRITE BEADS |       |       |      | BK1608HS121-T        | L9190081  |       | 1-  | B    | g1      |
| FB2005 | FERRITE BEADS |       |       |      | BK1608HS121-T        | L9190081  |       | 1-  | B    | g2      |
| FB2006 | FERRITE BEADS |       |       |      | BK1608HS121-T        | L9190081  |       | 1-  | B    | g2      |
| J 2001 | CONNECTOR     |       |       |      | MJD0606KX06L         | P1091242  |       | 1-  | A    | A2      |
| J 2002 | CONNECTOR     |       |       |      | 53398-1071           | P0091391  |       | 1-  | B    | b1      |
| J 2003 | CONNECTOR     |       |       |      | 32FLT-SM2-TB(LF)(SN) | P1091258  |       | 1-  | B    | b1      |
| J 2004 | CONNECTOR     |       |       |      | AXK6F14345YJ         | P0091406  |       | 1-  | B    | f2      |
| L 2001 | M.RFC         | 150uH |       |      | FLC32T-151J          | L1690229  |       | 1-  | B    | c2      |
| L 2002 | M.RFC         | 1uH   |       |      | LK1608 1R0K-T        | L1690687  |       | 1-  | B    | c1      |
| Q 2002 | IC            |       |       |      | HD64F2266TF13        | ✗         |       | 1-  | B    | d1      |
| Q 2003 | TRANSISTOR    |       |       |      | 2SC5374-TL           | G3353748  |       | 1-  | B    | c2      |
| Q 2004 | TRANSISTOR    |       |       |      | DTC143ZE TL          | G3070102  |       | 1-  | A    | B1      |
| Q 2005 | TRANSISTOR    |       |       |      | CPH6202-TL           | G3070265  |       | 1-  | A    | F2      |
| Q 2006 | IC            |       |       |      | BR24L64F-WE2         | G1093876  |       | 1-  | B    | c1      |
| Q 2007 | TRANSISTOR    |       |       |      | 2SC4617 TL R         | G3346178R |       | 1-  | B    | a1      |
| Q 2008 | TRANSISTOR    |       |       |      | 2SC4617 TL R         | G3346178R |       | 1-  | B    | a1      |
| Q 2010 | IC            |       |       |      | S-812C50AUA-C3E-T2G  | G1093652  |       | 1-  | B    | a2      |
| Q 2011 | IC            |       |       |      | BD4830FVE-TR         | G1094121  |       | 1-  | B    | b2      |
| Q 2013 | TRANSISTOR    |       |       |      | 2SC4617 TL R         | G3346178R |       | 1-  | B    | a2      |
| R 2003 | CHIP RES.     | 220k  | 1/16W | 5%   | RMC1/16S 224JTH      | J24189053 |       | 1-  | B    | a1      |
| R 2004 | CHIP RES.     | 220k  | 1/16W | 5%   | RMC1/16S 224JTH      | J24189053 |       | 1-  | B    | a1      |
| R 2005 | CHIP RES.     | 100   | 1/16W | 5%   | RMC1/16S 101JTH      | J24189013 |       | 1-  | A    | C1      |
| R 2006 | CHIP RES.     | 100   | 1/16W | 5%   | RMC1/16S 101JTH      | J24189013 |       | 1-  | A    | C1      |
| R 2007 | CHIP RES.     | 100   | 1/16W | 5%   | RMC1/16S 101JTH      | J24189013 |       | 1-  | A    | C1      |
| R 2008 | CHIP RES.     | 1k    | 1/16W | 5%   | RMC1/16S 102JTH      | J24189025 |       | 1-  | B    | d1      |
| R 2009 | CHIP RES.     | 1k    | 1/16W | 5%   | RMC1/16S 102JTH      | J24189025 |       | 1-  | B    | d1      |
| R 2010 | CHIP RES.     | 1k    | 1/16W | 5%   | RMC1/16S 102JTH      | J24189025 |       | 1-  | B    | d1      |
| R 2011 | CHIP RES.     | 100   | 1/16W | 5%   | RMC1/16S 101JTH      | J24189013 |       | 1-  | A    | E1      |
| R 2012 | CHIP RES.     | 100   | 1/16W | 5%   | RMC1/16S 101JTH      | J24189013 |       | 1-  | A    | E1      |
| R 2013 | CHIP RES.     | 100   | 1/16W | 5%   | RMC1/16S 101JTH      | J24189013 |       | 1-  | A    | F1      |
| R 2014 | CHIP RES.     | 22k   | 1/16W | 5%   | RMC1/16S 223JTH      | J24189041 |       | 1-  | B    | b1      |
| R 2015 | CHIP RES.     | 100k  | 1/16W | 5%   | RMC1/16S 104JTH      | J24189049 |       | 1-  | B    | c2      |
| R 2016 | CHIP RES.     | 1M    | 1/16W | 5%   | RMC1/16S 105JTH      | J24189061 |       | 1-  | B    | c2      |
| R 2017 | CHIP RES.     | 33k   | 1/16W | 5%   | RMC1/16S 333JTH      | J24189043 |       | 1-  | A    | B1      |
| R 2018 | CHIP RES.     | 100   | 1/16W | 5%   | RMC1/16S 101JTH      | J24189013 |       | 1-  | A    | C1      |
| R 2019 | CHIP RES.     | 100   | 1/16W | 5%   | RMC1/16S 101JTH      | J24189013 |       | 1-  | A    | C1      |
| R 2020 | CHIP RES.     | 100   | 1/16W | 5%   | RMC1/16S 101JTH      | J24189013 |       | 1-  | A    | C1      |
| R 2021 | CHIP RES.     | 22k   | 1/16W | 5%   | RMC1/16S 223JTH      | J24189041 |       | 1-  | B    | b1      |
| R 2022 | CHIP RES.     | 100k  | 1/16W | 5%   | RMC1/16S 104JTH      | J24189049 |       | 1-  | B    | c1      |
| R 2023 | CHIP RES.     | 1k    | 1/16W | 5%   | RMC1/16S 102JTH      | J24189025 |       | 1-  | B    | d2      |
| R 2024 | CHIP RES.     | 1k    | 1/16W | 5%   | RMC1/16S 102JTH      | J24189025 |       | 1-  | B    | d2      |
| R 2025 | CHIP RES.     | 68k   | 1/16W | 0.5% | MCR01MZPD6802        | J24189384 |       | 1-  | B    | c2      |
| R 2026 | CHIP RES.     | 390k  | 1/16W | 0.5% | MCR01MZPD3903        | J24189331 |       | 1-  | B    | c2      |
| R 2027 | CHIP RES.     | 10k   | 1/16W | 0.5% | MCR01MZPD1002        | J24189374 |       | 1-  | B    | c2      |
| R 2028 | CHIP RES.     | 1k    | 1/16W | 5%   | RMC1/16S 102JTH      | J24189025 |       | 1-  | B    | c2      |
| R 2030 | CHIP RES.     | 100k  | 1/16W | 5%   | RMC1/16S 104JTH      | J24189049 |       | 1-  | A    | B1      |

# CNTL Unit

## Parts List

| REF    | DESCRIPTION    | VALUE       | V/W   | TOL. | MFR'S DESIG         | VXSTD P/N  | LOT | ... | LAY ADR |
|--------|----------------|-------------|-------|------|---------------------|------------|-----|-----|---------|
| R 2031 | CHIP RES.      | 100         | 1/16W | 5%   | RMC1/16S 101JTH     | J24189013  | 1-  | A   | F1      |
| R 2032 | CHIP RES.      | 100         | 1/16W | 5%   | RMC1/16S 101JTH     | J24189013  | 1-  | A   | F1      |
| R 2033 | CHIP RES.      | 100         | 1/16W | 5%   | RMC1/16S 101JTH     | J24189013  | 1-  | A   | F1      |
| R 2034 | CHIP RES.      | 10          | 1W    | 5%   | RMC1 100JTE         | J24305100  | 1-  | A   | G2      |
| R 2036 | CHIP RES.      | 0           | 1/16W | 5%   | RMC1/16S JPTH       | J24189070  | 1-  | A   | F2      |
| R 2037 | CHIP RES.      | 220k        | 1/16W | 5%   | RMC1/16S 224JTH     | J24189053  | 1-  | B   | a1      |
| R 2038 | CHIP RES.      | 6.8k        | 1/16W | 5%   | RMC1/16S 682JTH     | J24189035  | 1-  | B   | a2      |
| R 2039 | CHIP RES.      | 68k         | 1/16W | 5%   | RMC1/16S 683JTH     | J24189047  | 1-  | B   | a2      |
| R 2040 | CHIP RES.      | 220k        | 1/16W | 5%   | RMC1/16S 224JTH     | J24189053  | 1-  | B   | a2      |
| R 2041 | CHIP RES.      | 6.8k        | 1/16W | 5%   | RMC1/16S 682JTH     | J24189035  | 1-  | B   | a1      |
| R 2042 | CHIP RES.      | 68k         | 1/16W | 5%   | RMC1/16S 683JTH     | J24189047  | 1-  | B   | a1      |
| R 2043 | CHIP RES.      | 68k         | 1/16W | 5%   | RMC1/16S 683JTH     | J24189047  | 1-  | B   | a1      |
| R 2044 | CHIP RES.      | 1.5k        | 1/16W | 5%   | RMC1/16S 152JTH     | J24189027  | 1-  | B   | a1      |
| R 2045 | CHIP RES.      | 3.3k        | 1/16W | 5%   | RMC1/16S 332JTH     | J24189031  | 1-  | B   | a1      |
| R 2046 | CHIP RES.      | 3.3M        | 1/16W | 5%   | RMC1/16S 335JTH     | J241890324 | 1-  | B   | d2      |
| R 2047 | CHIP RES.      | 1.8M        | 1/16W | 5%   | RMC1/16S 185JTH     | J24189064  | 1-  | B   | c2      |
| R 2048 | CHIP RES.      | 68k         | 1/16W | 5%   | RMC1/16S 683JTH     | J24189047  | 1-  | B   | a2      |
| R 2049 | CHIP RES.      | 1.5k        | 1/16W | 5%   | RMC1/16S 152JTH     | J24189027  | 1-  | B   | a1      |
| R 2050 | CHIP RES.      | 3.3k        | 1/16W | 5%   | RMC1/16S 332JTH     | J24189031  | 1-  | B   | a2      |
| R 2051 | CHIP RES.      | 1M          | 1/16W | 5%   | RMC1/16S 105JTH     | J24189061  | 1-  | B   | c2      |
| R 2052 | CHIP RES.      | 2.2M        | 1/16W | 5%   | RMC1/16S 225JTH     | J24189065  | 1-  | B   | d2      |
| R 2053 | CHIP RES.      | 1M          | 1/16W | 5%   | RMC1/16S 105JTH     | J24189061  | 1-  | B   | f1      |
| R 2054 | CHIP RES.      | 27k         | 1/16W | 5%   | RMC1/16S 273JTH     | J24189042  | 1-  | B   | b2      |
| R 2055 | CHIP RES.      | 15k         | 1/16W | 5%   | RMC1/16S 153JTH     | J24189039  | 1-  | B   | b2      |
| R 2056 | CHIP RES.      | 2.2k        | 1/16W | 5%   | RMC1/16S 222JTH     | J24189029  | 1-  | B   | f2      |
| R 2057 | CHIP RES.      | 2.2k        | 1/16W | 5%   | RMC1/16S 222JTH     | J24189029  | 1-  | B   | f2      |
| R 2058 | CHIP RES.      | 220         | 1/16W | 5%   | RMC1/16S 221JTH     | J24189017  | 1-  | B   | g1      |
| R 2059 | CHIP RES.      | 22          | 1/16W | 5%   | RMC1/16S 220JTH     | J24189005  | 1-  | B   | c1      |
| R 2060 | CHIP RES.      | 22k         | 1/16W | 5%   | RMC1/16S 223JTH     | J24189041  | 1-  | B   | a2      |
| R 2061 | CHIP RES.      | 390k        | 1/16W | 5%   | RMC1/16S 394JTH     | J24189056  | 1-  | B   | a2      |
| R 2062 | CHIP RES.      | 470k        | 1/16W | 5%   | RMC1/16S 474JTH     | J24189057  | 1-  | B   | f2      |
| R 2063 | CHIP RES.      | 470k        | 1/16W | 5%   | RMC1/16S 474JTH     | J24189057  | 1-  | B   | f2      |
| R 2064 | CHIP RES.      | 15k         | 1/16W | 5%   | RMC1/16S 153JTH     | J24189039  | 1-  | B   | f1      |
| R 2066 | CHIP RES.      | 15k         | 1/16W | 5%   | RMC1/16S 153JTH     | J24189039  | 1-  | B   | a2      |
| R 2067 | CHIP RES.      | 10k         | 1/16W | 5%   | RMC1/16S 103JTH     | J24189037  | 1-  | B   | e1      |
| R 2068 | CHIP RES.      | 10k         | 1/16W | 5%   | RMC1/16S 103JTH     | J24189037  | 1-  | B   | a1      |
| R 2069 | CHIP RES.      | 10k         | 1/16W | 5%   | RMC1/16S 103JTH     | J24189037  | 1-  | B   | a1      |
| R 2070 | CHIP RES.      | 47k         | 1/16W | 5%   | RMC1/16S 473JTH     | J24189045  | 1-  | B   | c1      |
| R 2071 | CHIP RES.      | 47k         | 1/16W | 5%   | RMC1/16S 473JTH     | J24189045  | 1-  | B   | c1      |
| R 2072 | CHIP RES.      | 470         | 1/16W | 5%   | RMC1/16S 471JTH     | J24189021  | 1-  | B   | f2      |
| R 2073 | CHIP RES.      | 100k        | 1/16W | 5%   | RMC1/16S 104JTH     | J24189049  | 1-  | B   | g2      |
| R 2074 | CHIP RES.      | 100k        | 1/16W | 5%   | RMC1/16S 104JTH     | J24189049  | 1-  | B   | g2      |
| R 2075 | CHIP RES.      | 220k        | 1/16W | 5%   | RMC1/16S 224JTH     | J24189053  | 1-  | B   | g2      |
| R 2076 | CHIP RES.      | 47k         | 1/16W | 5%   | RMC1/16S 473JTH     | J24189045  | 1-  | A   | D1      |
| R 2077 | CHIP RES.      | 47k         | 1/16W | 5%   | RMC1/16S 473JTH     | J24189045  | 1-  | A   | D1      |
| R 2078 | CHIP RES.      | 47k         | 1/16W | 5%   | RMC1/16S 473JTH     | J24189045  | 1-  | A   | D1      |
| R 2079 | CHIP RES.      | 1k          | 1/16W | 5%   | RMC1/16S 102JTH     | J24189025  | 1-  | B   | e1      |
| R 2080 | CHIP RES.      | 220k        | 1/16W | 5%   | RMC1/16S 224JTH     | J24189053  | 1-  | B   | c1      |
| R 2081 | CHIP RES.      | 4.7k        | 1/16W | 5%   | RMC1/16S 472JTH     | J24189033  | 1-  | B   | a1      |
| R 2082 | CHIP RES.      | 10k         | 1/16W | 5%   | RMC1/16S 103JTH     | J24189037  | 1-  | B   | a1      |
| R 2083 | CHIP RES.      | 47k         | 1/16W | 5%   | RMC1/16S 473JTH     | J24189045  | 1-  | A   | D1      |
| RB2001 | BLOCK RES.     |             |       |      | MNR04M0ABJ102       | J42900039  | 1-  | B   | d2      |
| RB2002 | BLOCK RES.     |             |       |      | MNR04M0ABJ102       | J42900039  | 1-  | B   | d2      |
| RB2003 | BLOCK RES.     |             |       |      | MNR04M0ABJ102       | J42900039  | 1-  | B   | d2      |
| RB2004 | BLOCK RES.     |             |       |      | MNR04M0ABJ102       | J42900039  | 1-  | B   | d2      |
| RB2005 | BLOCK RES.     |             |       |      | MNR04M0ABJ102       | J42900039  | 1-  | B   | c1      |
| RB2006 | BLOCK RES.     |             |       |      | MNR04M0ABJ102       | J42900039  | 1-  | B   | c1      |
| RB2007 | BLOCK RES.     |             |       |      | MNR04M0ABJ102       | J42900039  | 1-  | B   | c1      |
| S 2001 | ROTARY ENCODER |             |       |      | EC12E2420401        | Q9000749   | 1-  | A   | G1      |
| VR2001 | POT.           |             |       |      | WH9011-1B B20K 25/5 | J60800288  | 1-  | A   | B1      |
| VR2002 | POT.           |             |       |      | WH9011-1B A20K 25/5 | J60800287  | 1-  | A   | A1      |
| X 2001 | XTAL U3B       | 3.579545MHz |       |      | 3.579545MHZ         | H0103304   | 1-  | B   | d2      |

# *CNTL Unit*

## *Note*







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