Instruction Manual R-15C Studio-Transmitter-Link Receiver

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MARTI

WARNING

THIS EQUIPMENT MUST BE OPERATED WITH A 3-PRONG GROUNDED OUTLET RECEPTACLE. FAILURE TO USE A PROPERLY GROUNDED OUTLET MAY RESULT IN IMPROPER OPERATION OR SAFETY HAZARD!

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- b. Equipment, accessories, tubes and batteries not manufactured by Marti are subject to only such adjustments as Marti may obtain from the supplier thereof.
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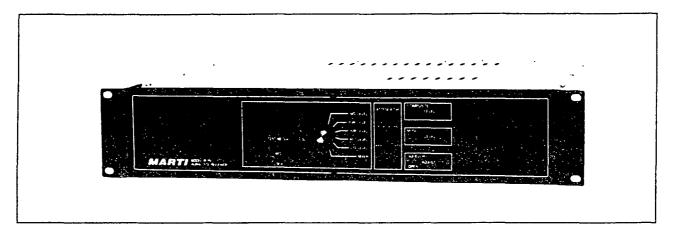
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Introduction



The *Marti* STL-15C Transmitter with companion R-15C Receiver, form a high quality, frequency synthesized, point-to-point, line of sight, radio communications link. These systems are available in frequency bands from 140 MHz to 960 MHz and may be factory configured for operation from various power sources. Depending upon available channel bandwidth, these systems can transmit one of the following:

- Composite FM Stereo audio with two subcarriers*
- Monophonic audio with two subcarriers
- Digital stereo audio (requires external modems)
- Multi-channel audio or data (requires external MUX)
- Digital data (requires external modems)

Complex systems can be built from basic STL-15C transmitters and R-15C receivers having multiple relay (repeaters), bi-directional (full duplex), and automatic switching hot standby features.

Composite system specifications

Stereo separation: 55 dB or better 50 Hz - 15 KHz with 250 KHz IF Filter

50 dB with 200 KHz IF Filter

Frequency response: Composite channel ±0.2 dB 30 Hz - 53 KHz

Wide band channel ±0.3 dB 30 Hz - 100 KHz

Distortion: 0.2% or less 30 Hz - 15 KHz (demodulated, de-emphasized,

LP filtered left or right channel)

Noise: more than 72 dB below 100% modulation (demodulated, de-

emphasized, LP filtered left or right channel)

Emission: 194 KF8E (without subcarrier)

280 KF8E (with 1 subcarrier) 490 KF8E (with 2 subcarriers)

Monophonic system specifications

Frequency response: ±0.25 dB 30 Hz - 15 KHz

Distortion: 0.2% or less 30 Hz - 15 KHz

Noise: more than 72 dB below 100% modulation (75 µs de-emphasis)

Emission: 194 KF8E (mono channel with subcarrier)

Pre-emphasis Adjustable 0, 25, 50, or 75 microseconds

Model R-15C Aural STL Receiver

Specifications

Frequency range: 140 - 180 MHz R-15C/150

200 - 260 MHz R-15C/215 280 - 340 MHz R-15C/300 400 - 480 MHz R-15C/450 890 - 960 MHz R-15C/950

^{* 940 - 960} MHz system, 500 KHz channels. Narrower bandwidths at reduced specifications.

Sensitivity: Composite stereo demodulated, de-emphasized, LP filtered, or

monaural

3 microvolts input for 50 dB signal/noise ratio 9 microvolts input for 60 dB signal/noise ratio

75 microvolts input for ultimate signal/noise ratio (typically 75

dB or better

RF Input Impedance and Connector:

50 ohms, type UG-58 (N female)

Selectivity: IF filter bandwidth is determined by the subcarrier(s) on the

system and interference conditions. Minimum necessary

bandwidth is selected from options:

Filter	3 dB	60 dB (bandwidth, KHz)
F200	190	450
F250	220	530
F450	280	900

Spurious Response: -90 dB, 140-480 MHz; -70 dB, 890-960 MHz

Frequency Stability: $\pm .00025\%$, -20° C to $+50^{\circ}$ C

Frequency Synthesizer: Frequency selected by 16 DIP switches, maximum resolution

12.5 KHz

Monophonic Audio Balanced 600 ohms, level adjustable -30 dBm to +10 dBm at

Output: front panel, transformer isolated and floating (may be strapped

for transformerless output) barrier strip terminals. Response 30

 $Hz - 15 KHz \pm 0.25 dB$.

Composite Audio Level adjustable 1.8 v P-P to 3.5 v P-P at front panel,

Output: unbalanced BNC connector; composite frequency response 30

 $Hz - 53 \text{ KHz} \pm 0.2 \text{ dB}.$

Subcarrier Outputs: Two unbalanced outputs, BNC connectors, selectable high pass

filtering for monophonic or composite stereo modes. Subcarrier output levels are 2 - 3 v. P-P for 10% subcarrier insertion at the

STL-15C transmitter. Subcarrier high pass filter cut-off frequency is 25 KHz in "mono mode" and 80 KHz in

"composite mode."

Digital Output: The J2 "Composite Output" BNC connector can be converted

to a "Digital" output by connecting an alternate shielded wire by changing two pins in a cable connector. The "Digital" output is unfiltered, unprocessed baseband having a 3 v. P-P

level and a response of 30 Hz - 200 KHz.

Front Panel Controls: 10 dB Attenuator, Composite Level Adjust, Mono Level

Adjust, Squelch Adjust, and Meter Switch.

Metering and Test meter reads Signal Level, Program Level (mono or **Indicators:**

composite), Subcarrier Level, AFC Level, Local Oscillator

Level, and Mixer Level. LED's indicate AFC Lock, Composite Mode, Mono Mode, and Squelch Open.

Provision for automatic changeover by addition of ARS-2 **Automatic Changeover:**

Automatic Receiver Switcher.

15 pin D connector on rear panel provides filtered access to **Accessory connector:**

+13.5 v regulated bus, +18 v unregulated supply. Squelch

relay contacts.

120/220/240 VAC*, 50/60 Hz, 20 watts or 11 - 14 VDC **Power Requirements:**

negative ground or 22 - 28 VDC** negative ground at 600 ma.

(900 ma. initial warmup.

AC Fuse Rating: For 120 v. use **0.5** Amp fuse

For 220 v. use **0.25** Amp fuse

Dimensions: 3.5 inches High x 19 inches Wide x 13 inches Deep

8.89 cm High x 48.26 cm Wide x 33.02 cm Deep

Weight: Net 9 pounds. Domestic packed 13 pounds.

Net 4.1 kilograms. Export packed 5.9 kilograms.

Specifications subject to change without notice

UNPACKING & INSPECTING

This equipment was factory tested, inspected, packed, and delivered to the carrier with utmost care. Do not accept shipment from carrier which shows damage or shortage until the carrier's agent endorses a statement of the irregularity on the face of the carrier's receipt. Without documentary evidence, a claim cannot be filed.

Unpack equipment immediately upon receipt and thoroughly inspect for concealed damage. If damage is discovered, stop further unpacking and request immediate inspection by local agent of carrier. A written report of the agent's findings, with his signature is necessary to support claim. Check your shipment against the shipping papers for possible shortage. Do not discard any packing material until all items are accounted for. Small items are often thrown away with packing material. Packing material should be retained until equipment testing is completed. Any equipment returned to the factory should be packed in original cartons, insured, and pre-paid.

^{*} Voltage must be specified with order.

^{**} Requires APS-28/18 Power Supply.

Installation

Install rack-mounted equipment in a well-ventilated, well-grounded, and shielded rack cabinet. Do not locate solid-state equipment in a rack above tube-type equipment which produces high temperatures.

Problems can also be avoided by locating this unit away from other equipment which has transformers that produce strong magnetic fields. These fields can induce hum and noise into the Marti equipment thus reducing performance. Strong radiofrequency (RF) fields should be avoided where possible. Extensive shielding and filtering have been incorporated into this equipment to permit operation in moderate RF environments. All equipment racks, cabinets, etc., should be bonded together by wide copper grounding strap to ensure that all system elements are at RF ground potential.

Receiver connections for Composite Stereo operation

(Refer to Drawing 702-096)

- 1. The composite signal output of the R-15C Receiver is the BNC jack labeled "J2 COMPOSITE". The composite output is connected to the composite signal input of the FM transmitter exciter by a short length of RAG-58 coaxial cable.
- 2. A subcarrier demodulator or remote control (operating above 92 KHz) can be connected to "J1 SUBCARRIER NO. 1" and/or "J3 SUBCARRIER NO. 2" output BNC jack. The ability of the STL-15C system to transmit subcarriers depends upon the channel bandwidth available. The R-15C receiver IF filter selectivity must be compatible with the available interference free channel bandwidth. Using 50 KHz deviation for 100% modulation, the approximate bandwidth required for various sub carriers follows:

Subcarrier Frequency	Receiver IF Bandwidth (3dB)
67 KHz	234 KHz
92 KHz	284 KHz
110 KHz	320 KHz
180 KHz	460 KHz

Actual bandwidth may require an additional 10% to 15% to allow for the modulation on the subcarrier itself. With the severe STL channel crowding with resulting interference prevalent around large markets, subcarriers above 110 KHz are not recommended.

- 3. The accessory connector has several uses such as remote control, automatic switching, and external DC power. Connection instructions are furnished with these accessories.
- 4. Connect STL receiving antenna coax to "J6 ANTENNA". This requires a type N male connector. A short flexible jumper (20" max.) may be used between J6 and semi-flexible coax. Marti Part No. 585-017 double shielded, low-loss RG 214/U jumper is recommended.
- 5. Connect AC line receptacle on back of the receiver to a 115 volt AC power source with special cord set supplied. USE ONLY 3-PRONG GROUNDED OUTLET RECEPTACLES FOR SAFETY.

WARNING

This equipment must be operated with a 3-prong, grounded, 115 volt, AC outlet receptacle! Failure to use a properly grounded outlet could result in a safety hazard or faulty equipment performance!

(See next page for receiver connections for monophonic operation.)

R-15C Receiver connections for Monophonic operation

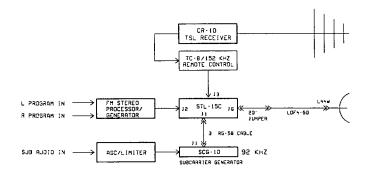
(Refer to Drawing 702-096)

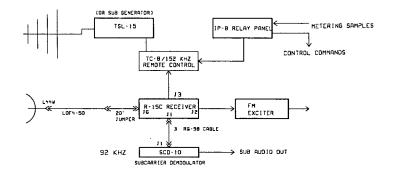
- 1. Monophonic program audio output is available at "600 ohm balanced" audio output screw terminals, **TB-1**. Use shielded wire. Program audio output level is +10 dBm max, 600 ohms balanced, and isolated from ground. For dual channel stereo, repeat instructions at second receiver. Audio processing requirements will be discussed in the "OPERATION" section of this manual.
- 2. Connect a remote control or subcarrier demodulator to the jack marked, "J1". The subcarrier load may be 600 to 5K ohms impedance, and the output level is approximately one (1) volt RMS. Systems factory supplied with 250 KHz IF bandwidth will carry subcarriers up to 92 KHz. For other subcarrier frequencies or narrow IF bandwidth systems contact the factory. A second subcarrier system can be connected to "J3". If a dual channel stereo STL is used, connect one subcarrier generator to "J1" or "J3" on each channel's transmitter and receiver.
- 3. The accessory connector has several uses such as automatic switching, and external DC power. Connection instructions are furnished with these accessories.

- 4. Connect STL receiving antenna coax to, J6 ANTENNA. This requires a type N male connector. A short flexible jumper (20" max.) may be used between J6 and semi-flexible coax. Marti Part No. 585-017 double shielded, low-loss RG-214/U jumper is recommended.
- 5. For dual channel stereo, use Model MTS-1 Receiver Combiner between J6 of each receiver. Use a Part No. 585-017 jumper between the ANTENNA connector of the MTS-1 and the semirigid coax. Refer to Drawing 702-096.
- 6. Connect AC line receptacle on back of the receiver to a 115 volt AC power source with special cord set supplied. USE ONLY 3-PRONG GROUNDED OUTLET RECEPTACLES FOR SAFETY.

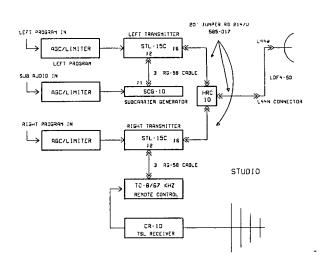
WARNING

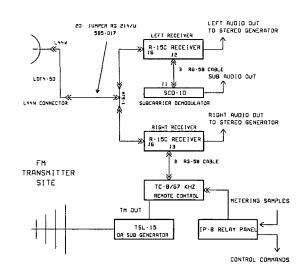
This equipment must be operated with a 3-prong, grounded, 115 volt, AC outlet receptacle! Failure to use a properly grounded outlet could result in a safety hazard or faulty equipment performance!





COMPOSITE STEREO





DUAL CHANNEL STEREO

FOR DETAILED INSTRUCTIONS READ EQUIPMENT INSTRUCTION MANUALS FOR MOND OPERATION OMIT LEFT TRANSMITTER, RECEIVER, HRC-10 AND MTS-1

MARTI ELECTRONICS CLEBURNE, TX 76033-0661

DRAWING NO.

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702-096

COMPOSITE & DUAL CHANNEL STERED STL SYSTEM BLOCK DIAGRAM

Antennas

The following suggestions are offered to help those responsible for antenna installations avoid costly errors in assembly and adjustment. Marti Electronics, Inc. assumes no responsibility for the installation and performance of antenna systems associated with its equipment. The following suggestions are not intended to be a complete step-by-step procedure, simply a listing of some of the most frequently reported errors in antenna system installation.

Antenna Assembly

Follow the manufacturer's instructions carefully. If no instructions were included with the antenna, call or write the antenna manufacturer for instructions. Errors are frequently made in assembly of the RF feed dipole in multi-element grid parabola antennas. The feed dipole elements must be installed in the same plane as the reflector grids. In other words, if the reflector grid elements are horizontal, the feed dipole elements must also be horizontal. Cross polarization of grid and feed dipole will result in total loss of antenna gain!

Transmission Line Connector Assembly

Do not use RG-58 U or RG-8 U cable with antennas! They have too much loss at VHF and UHF frequencies. Use low-loss foam dielectric solid copper outer shielded and jacketed coaxial cable of 1/2" to 1-5/8" diameter. Follow the instructions furnished by the manufacturer when cutting coaxial cable. Inspect the cable ends for small metal fragments which can short-circuit the line inside the connector assembly. Check the line for a short-circuit condition after each connector is installed by using an ohmmeter.

Moisture Proofing Coax Connectors

Extreme care must be exercised with coaxial cable before and after connectors have been installed to ensure that moisture does not enter the line. Foam dielectric line can take on moisture absorption which is difficult to detect and remedy. Therefore, keep the line dry while in storage with ends tightly capped. Coaxial splices, connectors, and fittings, to be located outside should be made mechanically tight, then

coated with a weather-proofing material over at least two layers of vinyl plastic electrical tape. Moisture problems in antenna systems are usually traced back to connectors which have **NOT** been properly taped. The Marti K-1 Grounding and Weatherproofing Kit is recommended for use in each new antenna installation.

Location and Grounding of Coaxial Cable

Keep the STL receiver coaxial cable as far from the broadcast transmitter and its coaxial cable as possible. DO NOT STRAP RECEIVER CABLE TO THE MAIN ANTENNA CABLE AT ANY POINT. PLACE THE RECEIVER ANTENNA COAXIAL CABLE ON THE OPPOSITE SIDE OF THE TOWER FROM THE MAIN ANTENNA CABLE. Maintain maximum separation between these cables at all points, including the distance from tower base to transmitter building as well as inside the building.

System Grounding

It essential that the STL antenna system be properly grounded for safety and proper operation.

Antenna Installation and Adjustment

The polarization of the transmit and receive antennas of the STL system must be the same! This means that if the transmitting antenna is vertical, the receiving antenna must also be vertical. Each antenna should be attached to the tower using the proper side mount or top mount hardware. Each antenna should be attached to the tower to allow for final adjustment in azimuth heading and vertical tilt. After visual adjustment of the antennas, the transmitter and receiver can be used to make the final adjustments of the antennas. With the transmitter driving one antenna, the receiving antenna is adjusted for maximum signal (indicated on the receiver) in both horizontal and vertical directivity. CAUTION: Antennas have a "major" and several "minor" lobes in their directivity patterns. A common error is to peak the antenna on a minor lobe, resulting in a signal level of only a fraction of the major lobe signal. This error can be avoided only by swinging the antenna through a large angle so that all lobes are evaluated and the major lobe clearly determined. After one antenna is adjusted, the transmitter and receiver locations are reversed, to allow adjustment of the other antenna. If an RF watt meter is available, each antenna and transmission line can be checked for

VSWR when the transmitter is supplying power to it. The VSWR should be less than 1.5 to 1 (1.5:1).

IF THE ANTENNA SYSTEM FAILS TO GIVE THE PREDICTED SIGNAL STRENGTH LEVEL, THE FOLLOWING ITEMS SHOULD BE CHECKED:

1. Check for correct assembly of antenna. Grid reflector antennas must have the drive dipole parallel with reflector grid bars.

- 2. Check that antennas have same polarity.
- 3. Check orientation of antennas in both horizontal and vertical directions.
- 4. Check VSWR of both transmit and receive antennas. VSWR should be less than 1.5:1.
- 5. Check Fresnel zone clearance along radio path.
- 6. Check for obstructions in the path such as trees and man-made structures. The base antenna must be high enough to provide a line-of-sight path to the remote transmitting antenna.

Operation

Control Functions and Panel Indicator Lamps

COMPOSITE LEVEL

When selected by internal jumper plugs, the "COMPOSITE LEVEL" lamp will be illuminated. Composite output is adjustable over a range of 1.8 to 3.5 volts P-P.

MONO LEVEL

When selected by internal jumper plugs, the "MONO LEVEL" lamp will be illuminated. Balanced 600 ohm mono level is adjustable over a range of -40 to +10 dBm.

SQUELCH ADJUST

The SQUELCH ADJUST pot is used to set the minimum level of received signal required to "open" the audio squelch of the receiver. This level is factory set to 4 microvolts, but may be changed if necessary. The squelch should be set to open when receiving the signal from the STL-15C transmitter, and close and remain closed at all times when the transmitter is "OFF". Very sensitive (low level) settings should be avoided to prevent the squelch from opening on noise or other signals.

ATTENUATOR

The RF input sensitivity of the R-15C receiver can be attenuated by placing the "ATTENUATOR" switch in "10 dB ATTEN." position. This may be desirable when the received signal is very strong in order to bring the "SIG. LEVEL" meter indication on scale and to make the squelch relay less susceptible to noise and interfering signals. On long transmission paths and fading signal conditions. "MAX SENSITIVITY" setting is required.

AFC LOCK LIGHT

The AFC LOCK light should be illuminated at all times the receiver is operating. This indicates the VCO of the frequency synthesizer is locked to the reference oscillator. The receiver squelch relay will not open unless the AFC LOCK light is on.

Test Meter

An illuminated **TEST METER** and selector switch are built into the R-15C receiver to permit monitoring of critical parameters. These are:

1. "SIGNAL LEVEL" - The received signal strength indication (RSSI) is displayed in relative values on the "VU" scale of the meter when switched to "SIG. LEVEL". Typical RSSI values and conditions are shown in the following table:

Sig. Level Meter Reading	Attenuator Switch Setting	Signal Strength (microvolts)
-7 VU	max sensitivity	5
-3.5 VU	max sensitivity	10
-1 VU	max sensitivity	50
0 VU	max sensitivity	100
+1.5 VU	max sensitivity	250
0 VU	10 dB ATTEN	500

See Receiver Test Report on page 17

- 2. "PGM LEVEL" The recovered audio level (mono or composite) is displayed on the upper "VU" scale of the meter. This indication may be useful in initial set-up under test tone conditions. "Composite" or "mono" levels may be observed while adjustments are being made. The program level meter is not a peak reading meter and is useful for test tone measurements. Complex program audio will be indicated at about 6 dB below actual peak values. The modulation of the STL link is set at the "PEAK MODULATION" bar graph meter of the STL-15C transmitter. "Composite" or "mono" levels out of the R-15C receiver are set for correct modulation of the broadcast transmitter as indicated on the station's modulation monitor.
- 3. "SUB LEVEL" Received subcarrier level is indicated in this switch position. If 10% subcarrier injection is used at the STL-15C transmitter, a "SUB LEVEL" indication of approximately "0" VU is indicated.
- 4. "AFC LEVEL" Indicates the AFC error correction voltage in the phase-locked loop. This reading should be "0 VU" ±1.5 VU. Level errors greater than ±1.5 VU call for adjustment of VCO center frequency. See section:

Tune Up and Adjustments

- 5. "L. O. LEVEL" The local oscillator (L.O.) level meter reading is normally -5 VU to -3 VU.

 6. "MIXED". The mixer meter reading is normally.
- 6. "MIXER" The mixer meter reading is normally 3 VU to +3 VU.

It is prudent to record all meter readings at the time the equipment is initially installed to aid in future trouble shooting.

INTERNALLY SELECTED OPTIONS

The R-15C receiver has several options selected by jumper plugs. Refer to section titled:

Tune Up and Adjustments

FREQUENCY PROGRAMMING

The R-15C receiver frequency synthesizer is programmed by 16 switches located on the R-15C Frequency Synthesizer Board, 800-291. Refer to section titled:

Tune Up and Adjustments

System Performance Tests

The STL-15C transmitter, R-15 receiver with the associated antenna system can be tested and compared with factory test data included in this manual. The following procedures should be followed in order to obtain reliable and accurate results.

Before audio tests or subcarrier tests are begun check the receiver "SIG. LEVEL" METER for required minimum signal. A conversion from VU to microvolts is given under OPERATION in the R-15 receiver manual. For a 950 MHz. system using 50 KHz FM deviation, typical noise levels are:

1 μν for 20 dB S/N ratio
3 μν for 50 dB S/N ratio
10 μν for 60 dB S/N ratio
20 μν for 70 dB S/N ratio
50+ μν for ULTIMATE
(Demodulated left or right channel de-emphasized and low-pass filtered.)

For the above system with 20% subcarrier injection, the following noise level on the subcarrier (Marti SCG-10 - SCD-10 System) was measured: (no modulation main or sub)

10 $\mu\nu$ for 40 dB Subcarrier S/N ratio 20 $\mu\nu$ for 47 dB Subcarrier S/N ratio 30 $\mu\nu$ for 50 dB Subcarrier S/N ratio 150 $\mu\nu$ for ULTIMATE

With ultimate S/N ratio, main to sub crosstalk should be -40 to -45 dB (using Marti SCG-10 - SCD-10 Subcarrier System).

NOISE (monophonic mode)

Noise measurements should be made first, since high noise levels will influence distortion readings. Also ground loops in the audio oscillator to transmitter connections and distortion analyzer to receiver connections must be resolved before testing begins. The influence of high RF fields upon the test equipment must be determined and corrected before accurate measurements can be made. NOTE: NOISE AND DISTORTION MEASUREMENTS ARE MADE WITH SUBCARRIER AND REMOTE CONTROL INPUT SIGNALS REMOVED. System signal to noise ratio is determined while modulating the transmitter 100% at 400 Hz. A level of +8 dBm across the balanced audio input terminals of TB-1 will produce a reading of 100% modulation on the "PEAK MODULATION" indicator. Set Receiver "MONO LEVEL" pot for +10 dBm output into the distortion analyzer. If the distortion analyzer has a high impedance input, add a 600 ohm load resistor to match the receiver. Establish +10 dBm on the audio voltmeter of the analyzer as the reference level for 100% modulation. Next, remove the audio signal from the transmitter input and measure noise level below reference (100% modulation). This reading should compare with that published under SYSTEM SPECIFICATIONS in this manual.

DISTORTION (monophonic mode)

Harmonic distortion is usually measured at 100% modulation and at several frequencies. If pre-emphasis processing is used in the transmitter with corresponding de-emphasis in the receiver, it is normal for available audio level at the receiver to drop with increasing frequency according to the de-emphasis curve selected. At 15 KHz, there is sufficient level to operate most modern distortion analyzers. Distortion levels should be within specifications. If distortion is out of specs, check system noise, check for test equipment ground loops, RFI, and transmitter/receiver operating frequency. If either unit is off frequency, the FM modulation sidebands are not centered within the IF filter bandpass, which can cause audio distortion.

FREQUENCY RESPONSE (monophonic mode)

If the STL-15C System is switched to flat processing, frequency response can be measured as if the signal were being sent over straight wires. If pre-emphasis processing is used (especially 75 µs) allowance must

be made in the transmitter audio input level to prevent over-modulation at test frequencies above 400 Hz. The simplest and fastest method is to set the transmitter audio input level for 100% modulation at 400 Hz., then attenuate this level 20 dB. Set receiver output level to -10 dBm as the reference, then sweep the audio band for response. Response should be within SYSTEM SPECIFICATIONS.

COMPOSITE (STEREO) SEP-ARATION, NOISE, DISTORTION AND FREQUENCY RESPONSE. (composite mode)

This procedure consists of feeding a stereo encoder (generator) capable of more than 60 dB separation (50 Hz - 15 KHz) into the composite input of the STL-15C transmitter and connecting a stereo decoder (monitor) to the composite output of the R-15C receiver. The actual test procedure may vary with different decoders (monitors). Therefore the procedure prescribed in the decoder (monitor) instruction manual should be followed.

Theory of Operation

The Marti R-15C is a synthesized double-conversion superheterodyne receiver. When used with the companion STL-15C transmitter a high quality point-to-point radio link can be assembled for transmission of composite stereo audio, monophonic audio, digital data (by means of modems) or other communications.

Since the general theory of operation of superheterodyne receivers is well known, we will briefly describe the function of each board (subsystem) of the R-15C receiver. Refer to block diagram 702-100 for signal flow, and to the individual schematic diagrams for circuit details.

1st CONVERTER, 800-211, 800-212, 800-213

The received RF signal is applied to the 1st converter module. After passing through a three-section preselector, the signal is coupled to Gate No. 1 of a GaAs dual-gate RF amplifier. The output of this amplifier is impedance matched to Double-Balanced Mixer X-1. The output of the Local Oscillator frequency multipliers is also impedance matched to the local oscillator port of mixer X-1. The third port of the double-balanced mixer X-1 is the converter output. The 1st converter output is in the 70 - 78 MHz range.

SECOND CONVERTER / IF AMP / DETECTOR, 800-293

The 50 ohm output from the 1st converter is connected to J3 of this board by a short coaxial cable. J-FET Q4 raises the impedance for the two-section band pass filter which is tuned to the 70 - 78 MHz output of the first converter. This signal is amplified by dual-gate FET Q5, again filtered by L7/C48 then fed to the gate of Q6. J-FET Q6 is a source follower driving the 50 ohm RF input of double balanced mixer X1. The L.O. drive from **Synthesizer Board**,

800-291, is connected to the L.O. port of mixer X1 via connector J5. The 10.7 MHz frequency difference between the RF and L.O. signals appear at the IF port of mixer X1 which is connected to J4. The 10.7 MHz signal is routed through IF Bandpass Filter Board, 800-207, and back to J1 of Second Converter/IF Amp/ Detector Board, 800-293, for amplification by Q1 and Q2 with filtering by CF1 and CF2. IC5 combines the functions of IF amplifier/limiter, quadrature detector, and receive signal strength indicator (signal level metering). The wide band output of Q5 appears at Pin 6, and is connected to IC1 - IC4 for pre-processing of the composite, mono, and subcarrier signals, and for level metering.

AUDIO BOARD, 800-294

Audio Board, 800-294 processes composite and mono audio for the R-15C and is programmable (by jumper plugs) for composite stereo or monaural signal processing.

Using "jumper plugs" the user may select "HI-SUB" for subcarrier operation in composite mode or "LO-SUB" for subcarrier operation in mono mode. When changing mode of operation jumper plugs are also provided to switch the front panel LED mode indicators and level metering. See the NOTE on Schematic, 800-294 to set jumpers properly!

COMPOSITE PROCESSING:

Composite processing entails low pass filtering, delay equalization, and high pass filtering (for subcarriers). Low pass filtering achieves a flat amplitude response to 53 KHz with a "brick-wall" cut-off using elliptic filters. Group delay, introduced by the low pass filter, is equalized using active allpass filters and achieves a flat group delay across a frequency band of 50 Hz to 53 KHz. High pass filtering, using elliptic filters, has a "brick-wall" cut-off at 80 KHz. with a flat response beyond 80 KHz. The output, as indicated on schematic 800-294, is labeled "HI-SUB".

MONO PROCESSING:

Mono processing entails de-emphasis, low pass filtering, amplification, and high pass filtering (for subcarriers). User options provide for selection of 75 µs, 50 µs, 25 µs, or 0 µs de-emphasis. Active Butterworth low pass filtering achieves a flat amplitude response to 15 KHz rolling off sharply above 15 KHz. Active Butterworth high pass filtering provides a sharp roll-off at 25 KHz with flat amplitude response above 25 KHz for subcarriers.

Output of the high pass filters is labeled "LO-SUB" on Schematic, 800-294. See instructions on this schematic for selection of "mode", de-emphasis, and subcarrier

FREQUENCY SYNTHE-SIZER, 800-291

The R-15C receiver frequency is synthesized at the second conversion local oscillator frequency, which is 10.7 MHz below (or above) the first converter output frequency. Using the 944 - 952 MHz band as an example, the first converter output would be 70 - 78 MHz. To convert to the second IF frequency of 10.7 MHz, the synthesizer must generate the required frequency in the range of 59.30 to 67.30 MHz (F-10.7) or 80.70 to 88.70 MHz (F+10.7). Programming instructions for the synthesizer are on page 19.

The frequency synthesizer consists of a Phase-Locked Loop (IC5), a Voltage-Controlled Oscillator (Q2), a Pre-scaler (IC4), a Reference Frequency (Y1), and a Loop Filter (IC2A). The PLL is a programmable device with the reference frequency generated by a crystal oscillator. The loop filter is an active type and the pre-scaler is used to pre-scale the VCO frequency to make it compatible to the PLL. The PLL performs three major functions:

- 1. compares the phase of the pre-scaled VCO frequency (further processed inside the device) with the frequency of resolution and produces outputs that are used by the loop filter to produce a DC voltage to control the VCO frequency.
- 2. controls the pre-scaler by selecting its divisor.
- 3. generates the frequency of resolution, internally, using the crystal oscillator.

The PLL has 16 programming pins that are used to select a VCO frequency and produce a lock. The program to select a particular VCO frequency is

selected by 16 dip switches. An extremely stable crystal oscillator and noiseless loop filter make the synthesizer ultra stable. The output of the phase-locked VCO (Q2) is buffered by IC3, low pass filtered and connected to J1 (L.O. out). A short coaxial cable connects with J5 (L.O. in) of Board, 800-293.

INPUT OUTPUT FILTERS, 800-193A

All input/output circuits connected to ACCESSORY connector J4, as well as the AC line input, have radio-frequency filters.

POWER SUPPLY/ SQUELCH, 800-219A

The power supply consists of a bridge rectifier, D1, D2, D3, D4 filter C5 and regulator IC-3. R8 and R9 set the output voltage and D5 and D6 protect IC-3 from reverse voltage. Zener diode D7 provides a shunt regulated reference voltage for the comparators, IC-2, for instances when the receiver is operated from external unregulated DC supplies.

The signal squelch IC-2B comparator has the signal level metering voltage applied to the appropriate input. Signal squelch comparator IC-2B output is connected to relay driver Q2. The collector of Q2 also operates the "SQUELCH OPEN" LED on the receiver panel. Squelch adjustment is provided by potentiometer R1 located on METER/CONTROL BOARD, 800-295 which divides the comparator reference voltage through R11 and R12.

The signal level voltage is inhibited (shorted to ground) when the frequency synthesizer AFC LOCK light is **NOT** "ON", thus muting all receiver signal outputs.

Signal level voltage is also connected to meter driver amplifier IC-1. The "SIGNAL LEVEL" position of the test meter is calibrated by R2.

Test Equipment

Distortion Analyzer Krohn-Hite Model 6801 Oscillator Krohn-Hite Model 4500 Attenuator Set Hewlett-Packard Model 3500 Frequency Counter Hewlett-Packard Model 5383A (option 001) Beckman Model 3030 Digital Multimeter Analog Multimeter Triplett Model 630 RF Attenuator Kay Model 437A (adjustable 0-110 dB) Marconi Model 2022C RF Signal Generator Stereo Monitor Belar Model FMS-2 Stereo Generator Aphex Model AX400 Oscilloscope Tektronix Model 2215

Tools for Alignment

Type of Tool	Manufacturer's No.	Marti Part No.
Tuning Tool	GC 9300	930-037
Tuning Tool	GC 9440	930-069
Tuning Tool	Spectrol 8T000	930-100
Tuning Tool	Sprague-Goodman	930-062
Tuning Tool	Johanson 8762	930-096 (yellow)
Tuning Tool	Johanson 8766	930-076 (blue)

The STL-15C/R-15C Alignment Tool Kit (Marti Part No. 704-175) containing all the above tools may be obtained from the factory for \$19.83.

R-15C Receiver Test Report

Customer:	
Address:	
Frequency:R-15C Serial No:	MODE: Composite Mono
	IF Bandwidth:
TEST	METER READINGS (VU scale)
Signal Level:	Program Level:
10 microvolts	Subcarrier Level:
50 microvolts	AFC Level:
100 microvolts	L. O. Level:
250 microvolts	Mixer:
500 microvolts(with front panel 10 dB pad switched	
S	SYSTEM DATA
Monophonic System:	Composite System:
30 Hz - 15 KHz	Stereo Separation: Better than 55 dB 100 Hz - 15 KHz
30 Hz - 15 KHz Noise: d	% Distortion (THD): % (L or R channel) @ 400 Hz
(below 50 KHz deviation) De/Preemphasis set: u	Noise: dB (below 50 KHz deviation, L or R) ss.
	made using an Aphex Model AX 400 Stereo Generator Belar Model FMS-2 Stereo Monitor as a stereo demodulator C receiver. Date:
	Signature:

R-15C Tune-Up and Adjustments

Refer to Location of Adjustments Drawing No. 702-099 and appropriate schematic diagrams for each module.

This equipment was thoroughly tested and inspected at the factory prior to shipment. The actual equipment performance was recorded on the factory test report (R-15C RECEIVER TEST REPORT) found on page 17. Adjustments should rarely be necessary in the field and should be attempted only by highly trained technicians familiar with this type equipment.. Laboratory grade test equipment is required and is listed "TEST **EQUIPMENT** under FOR TRANSMITTERS and R-15C RECEIVERS" (page 16). For location of adjustments and test points in the R-15C receiver refer to Adjustment Location Diagram, 702-099, on page 26.

1st CONVERTER, 800-211, 212, & 213

1. Set the local oscillator on exact frequency by adjusting L1 while observing the frequency on a 225 MHz counter plugged into J1. See **TABLE 1**. below in order to determine the correct frequency at J1.

NOTE: Unplug the counter from J1 before doing Step 2.

FOR 800-211 CONVERTER ONLY

- 2. Tune L2 and L4 for maximum negative voltage at TP-1. Use the 3 volt DC scale of a sensitive multimeter. Do NOT tune C7, C8, C13, C14 they are factory adjustments only!
- 3. Tune L5 and L6 for maximum voltage at TP-2.
- 4. Tune C18 for maximum voltage at TP-3.
- 5. Reduce received signal level at J6 for a 1/3 scale reading on SIG. LEVEL METER. Tune C23, C29, C33, C34, and C35 for maximum signal level.

FOR 800-212 and 800-213 CONVERT-ERS ONLY

- 2. Switch METER to "L.O. LEVEL". Tune L5 and L6 for maximum reading. DO NOT TUNE TRIMMER CAPACITORS—THEY ARE FACTORY ADJUST-MENTS ONLY!!! (TP-1)
- 3. Switch METER to "MIXER" and tune L7 and L8 for maximum reading. (TP-2)
- 4. Switch METER to "SIG. LEVEL", reduce signal level at J6 for a 1/3 scale reading on SIG. LEVEL METER. Tune the three gold capacitors on top of the pre-selector for maximum signal level. On 800-213 board tune C27 and C32 for maximum signal level. On 800-212 board tune L9 for maximum signal level.

I.F. FILTER, 800-207-250

There are no user adjustments on this board.

AUDIO PROCESSING BOARD, 800-293

This module has been thoroughly tested and adjusted at the factory. Only movement of jumper plugs to change between "COMPOSITE MODE", and "MONO MODE", and de-emphasis options should be necessary in the field.

Refer to Drawings 702-099 (page 26) for JP (jumper plug) locations and 800-294 (page 58) for **NOTES** on JP programming.

Monophonic mode:

To select monophonic (single program audio channel) mode, place jumper plugs at positions 2, 4, 5, and 7. The "MONO LEVEL" pot on the front panel is now used to set the mono output level at TB-1.

De-Emphasis: In mono mode the user can select deemphasis of 0, 25, 50 or 75 microseconds. The U.S. standard is 75 microseconds, the European is 50 microseconds, and some users prefer zero or 25 microseconds for various reasons. The emphasis selection must be the same for the transmitter and receiver.

De-Emphasis (microseconds)	Jumper Plug(s)
0	remove 9 & 10
25	9 only
50	10 only
75	9 & 10

Factory Calibration of De-Emphasis (mono mode)

- 1. Set pre-emphasis jumper plugs on STL-15C transmitter Processor Board, 800-285 to 75 micro-seconds as shown on Drawing 800-285 of the STL-15C instruction book.
- 2. Select 75 microseconds on R-15C Board 800-294 by inserting jumper plugs 9 and 10.
- 3. Modulate transmitter 100% at exactly 15 KHz. Set receiver PGM LEVEL ADJUST for exactly 7 dBm on an accurate audio voltmeter at terminals TB-1.
- 4. Lower the audio signal generator frequency to exactly 400 KHz at the exact same level into the STL-15C.
- 5. The R-15C receiver audio output level meter should read +10 dBm ± 0.25 dB. If not, adjust R22 on the receiver Audio Board, 800-294, for exactly +10 dBm output.

Composite Mode:

To select "COMPOSITE" stereo mode, place jumper plugs (JP) at positions 1, 3, 6, and 8. The "COMPOSITE LEVEL" pot on the front panel now controls the composite output at J2.

2nd CONVERTER / IF AMP-LIFIER / DETECTOR, 800-293

2nd Converter/Pre-selector: (Adjustments necessary when changing receiver frequency)

- 1. Place test meter in "SIG LEVEL" position.
- 2. Adjust the RF input level (J6) for approximately 1/3 scale reading.
- 3. Adjust C43, C46, and C48 for maximum signal level.

Other adjustments on the 800-293 Board are factory set and do **NOT** require field adjustment.

PROGRAMMING THE FREQUENCY SYNTHESIZER, 800-291

Read "THEORY OF OPERATION" of frequency synthesizer, 800-291 on page 14.

On the 944-952 MHz band, the first converter, 800-211B, is tuned to the center frequency of 948 MHz, and at this center frequency converts to 74.0 MHz. The second converter on Board 800-293 converts to the 10.7 MHz IF frequency, which requires that the Synthesizer Board, 800-291, generate a L.O. frequency of 59.3-67.3 MHz. This is done by selection of 16 "DIP" switches located on Board 800-291 as follows:

- 1. Look up desired frequency on the enclosed list of frequencies. (The same frequency as transmitter STL-15C). Frequencies are available in 12.5 KHz steps. Frequencies between steps can be obtained by shifting the reference oscillator (see [5] below).
- 2. Position switches according to the frequency table. Double-check switch positions to avoid error.
- 3. Place "TEST METER" switch in "AFC LEVEL" position. With synthesizer operating and "locked" indicated by the green "AFC LOCK" light, the "AFC LEVEL" should be zero (0) VU ±1.5 VU. If the newly selected frequency differs from the original frequency by several megahertz, the VCO frequency should be adjusted for a "0 VU" AFC level as follows:
 - (a). Remove cover of the VCO box (located next to J1 on 800-291 board).
 - (b). Using an insulated adjustment tool such as Marti Part No. 930-100, adjust the variable capacitor C36 (see Drawing 702-099) for the "0 VU" reading. The plates of capacitor C36 should be between 10% 30% of maximum (fully meshed). If not, set C36 in this position and adjust L6 for "0 VU" on the meter by using an insulated slug tuning tool such as Marti No. 930-069.
 - (c). Replace box cover being careful to properly engage all shield contact fingers.
- 4. If desired, the synthesized frequency can be measured at J1 using a frequency counter. The frequency should be the "L.O." frequency corresponding to the "Channel" frequency selected. Any error can be corrected by adjustment of C11 through the hole in the cover of the

reference oscillator box cover on Board, 800-291. See Drawing 702-099 for location. Use insulated adjustment tool 730-069 or equivalent.

NOTE: The SQUELCH RELAY of the R-15C receiver will not open until the "AFC LOCK" light is

5. When the receiver operating frequency is changed more than 0.1%, the first converter adjustments, as well as C43, C46, and C48, of the pre-selector on Board 800-293 must be "peaked" (tuned for maximum "SIG LEVEL") in order to maintain performance.

TABLE 1.

The correct frequency at J1 can be calculated by the formulas in the following table:

Operating Frequency (F)	Converter Type	Measured Frequency at J1	Overtone Crystal Formula
140-180 MHz.	800-212	(F+74)/3	(F+74)/6
200-260 MHz.	800-212	(F+74)/3	(F+74)/6
280-340 MHz.	800-213	(F+74)/2	(F+74)/8
400-480 MHz.	800-213	(F-74)/2	(F-74)/8
890-960 MHz.	800-211	(F-74)/4	(F-74)/16
944-952 MHz.	800-211	218.5 MHz.	

I	Channel	L.O.	DIP Switch S1	DIP Switch S2
Ī	Freq.	Freq.	12345678	9 10 11 12 13 14 15 16
ŀ	(KHz)	(KHz)		
l	940 MHz			
I	940000	55300	00101000	00100010
I	940025	55325	00101000	00100011
1	940050	55350	00101000	00100110
ŀ	940075	55375	0 0 1 0 1 0 0 0	00100111
ł	940100 940125	55400 55425	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
ŀ	940150	55450	00101010	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
ł	940175	55475	00101010	00100101
ŀ	940200	55500	00101010	00100010
t	940225	55525	00101010	00100011
Ī	940250	55550	00101010	00100110
E	940275	55575	00101010	00100111
L	940300	55600	01101000	00100000
L	940325	55625	01101000	00100001
ŀ	940350	55650	01101000	00100100
ŀ	940375	55675	0 1 1 0 1 0 0 0	00100101
ŀ	940400	55700 55725	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
H	940425	55750	01101000	00100011
H	940475	55775	01101000	00100110
ł	940500	55800	01101010	00100000
ľ	940525	55825	0 1 1 0 1 0 1 0	00100001
I	940550	55850	0 1 1 0 1 0 1 0	00100100
L	940575	55875	0 1 1 0 1 0 1 0	00100101
Ļ	940600	55900	01101010	00100010
ŀ	940625	55925	01101010	00100011
ŀ	940650	55950	0 1 1 0 1 0 1 0	0 0 1 0 0 1 1 0
-	940675	55975 56000	0 1 1 0 1 0 1 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
ŀ	940700	56025	0 0 0 1 1 0 0 0	00100000
ŀ	940750	56050	00011000	0 0 1 0 0 1 0 0
r	940775	56075	0 0 0 1 1 0 0 0	0 0 1 0 0 1 0 1
ł	940800	56100	00011000	00100010
	940825	56125	00011000	00100011
L	940850	56150	00011000	00100110
ŀ	940875	56175	0 0 0 1 1 0 0 0	0 0 1 0 0 1 1 1
ŀ	940900 940925	56200 56225	0 0 0 1 1 0 1 0	00100000
ŀ	940925	56250	0 0 0 1 1 0 1 0	00100001
H	940975	56275	0 0 0 1 1 0 1 0	001001001
ŀ	Channel	L.O.	DIP Switch S1	DIP Switch S2
H	Freq.	Freq.	1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16
ı	(KHz)	(KHz)	_	
Г	941 MHz			
r	941000	56300	00011010	00100010
Γ	941025	56325	00011010	00100011
L	941050	56350	00011010	0 0 1 0 0 1 1 0
L	941075	56375	0 0 0 1 1 0 1 0	0 0 1 0 0 1 1 1
ŀ	941100	56400	0 1 0 1 1 0 0 0	0 0 1 0 0 0 0 0
ŀ	941125	56425	0 1 0 1 1 0 0 0	0 0 1 0 0 0 0 1
ŀ	941150 941175	56450 56475	0 1 0 1 1 0 0 0	0 0 1 0 0 1 0 0
r	941200	56500	0 1 0 1 1 0 0 0	00100101
t	941225	56525	0 1 0 1 1 0 0 0	00100011
t	941250	56550	01011000	00100110
	941275	56575	01011000	00100111
Ĺ	941300	56600	0 1 0 1 1 0 1 0	00100000
L	941325	56625	0 1 0 1 1 0 1 0	0 0 1 0 0 0 0 1
L	941350	56650	0 1 0 1 1 0 1 0	00100100
ŀ	941375 941400	56675 56700	0 1 0 1 1 0 1 0	0 0 1 0 0 1 0 1
H	941400	56725	0 1 0 1 1 0 1 0	00100010
H	941450	56750	0 1 0 1 1 0 1 0	0 0 1 0 0 0 1 1
t	941475	56775	0 1 0 1 1 0 1 0	0 0 1 0 0 1 1 1
•-			<u></u>	

941500	56800	00111000	00100000
941525	56825	00111000	00100001
941550	56850	00111000	00100100
941575	56875	00111000	00100101
941600	56900	00111000	00100010
941625	56925	00111000	00100011
941650	56950	00111000	00100110
941675	56975	00111000	00100111
941700	57000	00111010	00100000
941725	57025	00111010	00100001
941750	57050	00111010	00100100
941775	57075	00111010	00100101
941800	57100	00111010	00100010
941825	57125	00111010	00100011
941850	57150	00111010	00100110
941875	57175	00111010	00100111
941900	57200	01111000	00100000
941925	57225	01111000	00100001
941950	57250	0 1 1 1 1 0 0 0	0 0 1 0 0 1 0 0
941975	57275	01111000	00100101
Channel	L.O.	DIP Switch S1	DIP Switch S2
Freq.	Freq.	1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16
(KHz)	(KHz)		
942 MHz			
942000	57300	01111000	00100010
942025	57325	0 1 1 1 1 0 0 0	0 0 1 0 0 0 1 1
942050	57350	0 1 1 1 1 0 0 0	0 0 1 0 0 1 1 0
942075	57375	01111000	0 0 1 0 0 1 1 1
942100	57400	0 1 1 1 1 0 1 0	00100000
942125	57425	01111010	00100001
942150	57450	01111010	00100100
942175	57475	01111010	00100101
942200	57500	0 1 1 1 1 0 1 0	00100010
942225	57525	0 1 1 1 1 0 1 0	00100011
942250	57550	0 1 1 1 1 0 1 0	00100110
942275	57575	0 1 1 1 1 0 1 0	0 0 1 0 0 1 1 1
942300	57600	00000001	0 0 1 0 0 0 0 0
942325	57625	00000001	0 0 1 0 0 0 0 1
942350	57650	00000001	00100100
942375	57675	00000001	00100101
942400	57700	0 0 0 0 0 0 0 1	00100010
942425	57725	0 0 0 0 0 0 0 1	0 0 1 0 0 0 1 1
942450	57750 57775	0 0 0 0 0 0 0 1	0 0 1 0 0 1 1 0
942475 942500	57800	0 0 0 0 0 0 0 1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
942525	57825		
942525	57850	00000011	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
942575	57875		
942600	57900	0 0 0 0 0 0 1 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
942625	57925	0 0 0 0 0 0 1 1	0 0 1 0 0 0 1 1
942650	57950	0 0 0 0 0 0 1 1	0 0 1 0 0 0 1 1 0
942675	57975	00000011	0 0 1 0 0 1 1 1
942700	58000	0 1 0 0 0 0 0 1	0 0 1 0 0 0 0 0
942725	58025	01000001	00100001
942750	58050	01000001	00100100
942775	58075	01000001	00100101
942800	58100	01000001	00100010
942825	58125	0 1 0 0 0 0 0 1	0 0 1 0 0 0 1 1
942850	58150	01000001	0 0 1 0 0 1 1 0
942875	58175	0 1 0 0 0 0 0 1	00100111
942900	58200	01000011	00100000
942925	58225	01000011	00100001
942950	58250	0 1 0 0 0 0 1 1	00100100
942975	58275	0 1 0 0 0 0 1 1	0 0 1 0 0 1 0 1
Channel	L.O.	DIP Switch S1	DIP Switch S2
Freq.	Freq.	12345678	9 10 11 12 13 14 15 16
(KHz)	(KHz)		
943 MHz			

043335	T 50000	101000011	T 0 0 1 0 0 0 1 5
943000	58300	01000011	0010010
943025	58325	01000011	00100011
943050	58350	01000011	00100110
943075	58375	01000011	00100111
943100	58400	00100001	00100000
943125	58425	00100001	00100001
943150	58450	00100001	00100100
943175	58475	00100001	00100101
943200	58500	00100001	00100010
943225	58525	00100001	00100011
943250	58550	00100001	0010011
943275	58575	00100001	00100110
943375	58600	0010001	00130111
943300	58625	00100011	00100001
943325	58625	00100011	00100001
943375	58675		
943400	58700	00100011	0 0 1 0 0 0 1 0
943425	58725	00100011	00100011
943450	58750	00100011	00100110
943475	58775	0 0 1 0 0 0 1 1	0 0 1 0 0 1 1 1
943500	58800	0 1 1 0 0 0 0 1	00100000
943525	58825	0 1 1 0 0 0 0 1	00130001
943550	58850	01100001	00100100
943575	58875	01100001	00100101
943600	58900	01100001	00100010
943625	58925	0 1 1 0 0 0 0 1	00100011
943650	58950	01100001	00100110
943675	58975	0 1 1 0 0 0 0 1	0 0 1 0 0 1 1 1
943700	59000	0 1 1 0 0 0 1 1	001000111
943725	59025	01100011	00100000
943750	59050	01100011	00100001
943750	59050	01100011	00100100
943775	59075	01100011	00100101
			
943825	59125	01100011	0 0 1 0 0 0 1 1
943850	59150	01100011	0 0 1 0 0 1 1 0
943875	59175	0 1 1 0 0 0 1 1	0 0 1 0 0 1 1 1
943900	59200	0 0 0 1 0 0 0 1	00100000
943925	59225	0 0 0 1 0 0 0 1	0 0 1 0 0 0 0 1
943950	59250	0 0 0 1 0 0 0 1	00100100
943975	59275	00010001	00100101
Channel	L.O.	DIP Switch S1	DIP Switch S2
Freq.	Freq.	1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16
(KHz)	(KHz)		
944 MHz			
944000	59300	00010001	00100010
944000	59300		
944025	59325		
			0 0 1 0 0 1 1 0
944075	59375	00010001	00100111
944100	59400	0 0 0 1 0 0 1 1	00100000
944125	59425	0 0 0 1 0 0 1 1	0 0 1 0 0 0 0 1
944150	59450	0 0 0 1 0 0 1 1	0 0 1 0 0 1 0 0
944175	59475	0 0 0 1 0 0 1 1	0 0 1 0 0 1 0 1
944200	59500	0 0 0 1 0 0 1 1	0 0 1 0 0 0 1 0
944225	59525	0 0 0 1 0 0 1 1	0 0 1 0 0 0 1 1
944250	59550	0 0 0 1 0 0 1 1	0 0 1 0 0 1 1 0
944275	59575	0 0 0 1 0 0 1 1	0 0 1 0 0 1 1 1
944300	59600	0 1 0 1 0 0 0 1	0 0 1 0 0 0 0 0
944325	59625	0 1 0 1 0 0 0 1	00100001
944350	59650	0 1 0 1 0 0 0 1	0 0 1 0 0 1 0 0
944375	59675	01010001	0 0 1 0 0 1 0 1
944400	59700	0 1 0 1 0 0 0 1	00100010
944425	59725	0 1 0 1 0 0 0 1	00100011
944450	59750	0 1 0 1 0 0 0 1	00100110
944475	59775	0 1 0 1 0 0 0 1	00100111
944500	59800	0 1 0 1 0 0 1 1	00100000
944525	59825	0 1 0 1 0 0 1 1	00100001
944550	59850	0 1 0 1 0 0 1 1	00100100
944575	59875	0 1 0 1 0 0 1 1	0 0 1 0 0 1 0 1
944600	59900	0 1 0 1 0 0 1 1	0 0 1 0 0 0 1 0

944625	59925	0 1 0 1 0 0 1 1	00100011
944650	59950	01010011	00100110
944675	59975	01010011	00100111
944700	60000	00110001	00100000
944725	60025	00110001	00100001
944750	60050	00110001	00100100
944775	60075	00110001	00100101
944800	60100	00110001	00100010
944825	60125	00110001	00100011
944850	60150	00110001	00100110
944875	60175	00110001	00100111
944900	60200	00110011	00100000
944925	60225	00110011	00100001
944950	60250	00110011	00100100
944975	60275	00110011	00100101
Channel			
Freq.	L.O.	DIP Switch S1 1 2 3 4 5 6 7 8	DIP Switch S2
	Freq.	1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16
(KHz)	(KHz)		
945 MHz			
945000	60300	00110011	00100010
945025	60325	00110011	00100011
945050	60350	00110011	00100110
945075	60375	00110011	00100111
945100	60400	01110001	00100000
945125	60425	01110001	0 0 1 0 0 0 0 1
945150	60450	0 1 1 1 0 0 0 1	00100100
945175	60475	0 1 1 1 0 0 0 1	00100101
945200	60500	01110001	00100101
945225	60525	0 1 1 1 0 0 0 1	00100010
945250	60550	01110001	00100011
945275	60575	01110001	00100110
945300	60600		
945300		<u> </u>	0 0 1 0 0 0 0 0
	60625		00100001
945350	60650	0 1 1 1 0 0 1 1	00100100
945375	60675	0 1 1 1 0 0 1 1	00100101
945400	60700	0 1 1 1 0 0 1 1	00100010
945425	60725	01110011	00100011
945450	60750	01110011	0 0 1 0 0 1 1 0
945475	60775	01110011	0 0 1 0 0 1 1 1
945500	60800	00001001	00100000
945525	60825	00001001	0 0 1 0 0 0 0 1
945550	60850	00001001	00100100
945575	60875	00001001	00100101
945600	60900	00001001	00100010
945625	60925	00001001	00100011
945650	60950	00001001	00100110
945675	60975	00001001	00100111
945700	61000	00001011	00100000
945725	61025	00001011	00100001
945750	61050	00001011	00100100
945775	61075	00001011	00100101
945800	61100	00001011	00100010
945825	61125	00001011	00100011
945850	61150	00001011	00100110
945875	61175	00001011	00100111
945900	61200	01001001	00100000
945925	61225	01001001	00100001
945950	61250	0 1 0 0 1 0 0 1	00100100
945975	61275	0 1 0 0 1 0 0 1	0 0 1 0 0 1 0 1
Channel			
	L.O.	DIP Switch S1 1 2 3 4 5 6 7 8	DIP Switch S2
Freq. (KHz)	Freq.	12345678	9 10 11 12 13 14 15 16
	(KHz)		
946 MHz		i	<u> </u>
946000	61300	0 1 0 0 1 0 0 1	00100010
0.4.000=			
946025	61325	0 1 0 0 1 0 0 1	00100011
946025 946050			0 0 1 0 0 0 1 1 0 0 1 0 0 1 1 0
	61325	0 1 0 0 1 0 0 1	
946050	61325 61350	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	00100110

946125 61425 0 1 0 0 1 0 1 1 1 0 0 1 0 0 1 0 0 1 0 9 46175 61475 0 1 0 0 1 0 1 0 1 1 0 0 1 0 0 1 0 0 1 0 9 46225 61525 0 1 0 0 1 0 1 0 1 1 0 0 1 0 0 0 1 0 1	046105	1 61 465		T
946175	946125	61425	01001011	00100001
946200			01001011	00100100
946225	946175	61475	01001011	00100101
946250	946200	61500	01001011	00100010
946250	946225	61525	0 1 0 0 1 0 1 1	0 0 1 0 0 0 1 1
946275 61575 0 1 0 0 1 0 1 1 1 0 0 1 0 0 1 1 1 9 46300 61600 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 9 46325 61625 0 0 1 0 1 0 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0 9 46350 61650 0 0 1 0 1 0 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0 9 46355 61625 0 0 1 0 1 0 1 0 0 1 0 0 0 1 0 0 0 1 0 0 9 46375 61675 0 0 0 1 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0		+		
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947600 62900 0 1 0 1 1 0 0 1 0 0 1 0 0 0 1 0 947625 62925 0 1 0 1 1 0 0 1 0 0 1 0 0 0 1 1 947650 62950 0 1 0 1 1 0 0 1 0 0 1 0 0 1 0 1 1 0 947675 62975 0 1 0 1 1 0 0 1 0 0 1 0 0 1 0 1 1 1 947700 63000 0 1 0 1 1 0 1 1 0 1 1 0 0 1 0 0 1 0 0 0 0	Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200 947225 947250 947275 947300 947325 947375 947400 947425 947450 947475 947500 947525	62300 62325 62350 62375 62400 62425 62450 62475 62500 62575 62600 62625 62650 62675 62700 62725 62700 62725 62775 62700	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 0 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 0 0 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0
947625 62925 0 1 0 1 1 0 0 1 0 0 1 0 0 0 1 1 947650 62950 0 1 0 1 1 0 0 1 0 0 1 0 0 1 0 0 1 1 947675 62975 0 1 0 1 1 0 0 1 0 0 1 0 0 1 0 1 1 947700 63000 0 1 0 1 1 0 1 1 0 0 1 0 1 0 0 0 0 0 0	Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200 947225 947250 947275 947300 947325 947375 947400 947425 947450 947475 947500 947550	62300 62325 62350 62375 62400 62425 62450 62475 62500 62575 62600 62625 62650 62675 62700 62725 62700 62725 62700 62725 62700 62725 62775 62800 62825 62800	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 0 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 1 0 1
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	Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200 947225 947250 947275 947300 947325 947350 947375 947400 947425 947450 947450 947455 947500 947625 947650 947625 947650 947675	62300 62325 62350 62375 62400 62425 62450 62475 62500 62525 62500 62575 62600 62625 62675 62700 62725 62750 62775 62800 62825 62850 62850 62850 62850 62850 62850 62850 62850 62850 62850 62850 62850 62850 62875 62800 62875 62800 62875 62800 62875 62800 62875 62800 62875 62800 62875 62800 62875 62800 62875 62800 62875 62800 62875 62800 62875 62800 62875 62975	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 0 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 1 0 0 0 0 1 0 0 1 0 0 0 1 0 0 1 0 0 0 1 0 1

947750	63050	0 1 0 1 1 0 1 1	00100100
947775	63075	0 1 0 1 1 0 1 1	00100101
947800	63100	0 1 0 1 1 0 1 1	00100101
947825	63125	0 1 0 1 1 0 1 1	00100011
947850	63150	0 1 0 1 1 0 1 1	0010011
947875	63175	0 1 0 1 1 0 1 1	00100111
947900	63200	00111001	00100000
947925	63225	00111001	00100000
947950	63250	00111001	00100001
947975	63275	00111001	00100100
Channel	L.O.		
Freq.	Freq.	DIP Switch S1	DIP Switch S2 9 10 11 12 13 14 15 16
(KHz)	(KHz)	12343076	3 MHTTHHUM
	(5.1.2.7		
948 MHz	62200		
948000	63300	00111001	00100010
948025	63325	00111001	00100011
948050	63350	00111001	00100110
948075	63375	00111001	00100111
948100	63400	0 0 1 1 1 0 1 1	00100000
948125	63425	0 0 1 1 1 0 1 1	00100001
948150	63450	0 0 1 1 1 0 1 1	00100100
948175	63475	0 0 1 1 1 0 1 1	00100101
948200	63500	0 0 1 1 1 0 1 1	00100010
948225	63525	00111011	0 0 1 0 0 0 1 1
948250	63550	0 0 1 1 1 0 1 1	00100110
948275	63575	0 0 1 1 1 0 1 1	0 0 1 0 0 1 1 1
948300	63600	0 1 1 1 1 0 0 1	00100000
948325	63625	0 1 1 1 1 0 0 1	00100001
948350	63650	0 1 1 1 1 0 0 1	00100100
948375	63675	0 1 1 1 1 0 0 1	00100101
948400	63700	01111001	00100010
948425	63725	0 1 1 1 1 0 0 1	00100011
948450	63750	01111001	00100110
948475	63775	0 1 1 1 1 0 0 1	00100111
948500	63800	0 1 1 1 1 0 1 1	00100000
948525	63825	0 1 1 1 1 0 1 1	00100001
948550	63850	0 1 1 1 1 0 1 1	00100100
948575	63875	01111011	00100101
948600	63900	0 1 1 1 1 0 1 1	00100010
948625	63925	01111011	00100011
948650	63950	01111011	00100110
948675	63975	0 1 1 1 1 0 1 1	00100111
948700	64000	00000000	10100000
948725	64025	00000000	10100001
948750	64050	00000000	10100100
948775	64075	00000000	1 0 1 0 0 1 0 1
948800	64100	00000000	10100010
948825	64125	00000000	10100011
948850	64150	00000000	10100110
948875	64175	00000000	1 0 1 0 0 1 1 1
948900	64200	00000010	10100000
948925	64225	00000010	10100001
948950	64250	00000010	10100100
948975	64275	0 0 0 0 0 0 1 0	10100101
Channel	L.O.	DIP Switch S1	
Freq.	Freq.	1 2 3 4 5 6 7 8	DIP Switch S2 9 10 11 12 13 14 15 16
(KHz)	(KHz)		, with the 10 m
949 MHz			
949000	64300	00000010	10100010
949025	64325	0 0 0 0 0 0 1 0	10100010
949050	64350	0 0 0 0 0 0 1 0	10100011
949075	64375	0 0 0 0 0 0 1 0	10100110
949100	64400	0 1 0 0 0 0 0 0	10100111
949125	64425	0 1 0 0 0 0 0 0	10100000
949150	64450	0 1 0 0 0 0 0 0	10100001
949175	64475	01000000	10100100
949200	64500	01000000	10100101
949225	64525	01000000	10100010
	0,000		<u> </u>

949250 64550 0100000 1010100000 949375 64675 010000010 1010100000 949325 64625 01000010 1010100000 949375 64625 01000010 1010100010 949375 64625 01000010 1010100010 949375 64675 01000010 101000010 9494375 64675 01000010 1010100010 949400 64700 01000010 1010100010 949425 64725 01000010 1010100001 949425 64725 01000010 1010100011 949450 64750 01000010 1010100011 949450 64750 01000010 1010100011 949450 64750 01000010 1010100011 94950 64760 01000010 1010100011 94950 64760 01000010 10101000011 949550 64850 001000010 1010100001 949525 64855 000100000 100100000 949525 64850 00100000 100100000 949575 64875 00000000 1001000000 94960 64900 00100000 100100000 94960 64900 00100000 100100000 949650 64850 001000000 100100000 949675 64955 0001000000 1001000001 949675 64955 0001000000 1001000001 949675 64955 0001000000 1001000001 949650 64950 001000000 1001000001 949675 64955 0001000000 1001000000000000000000000				
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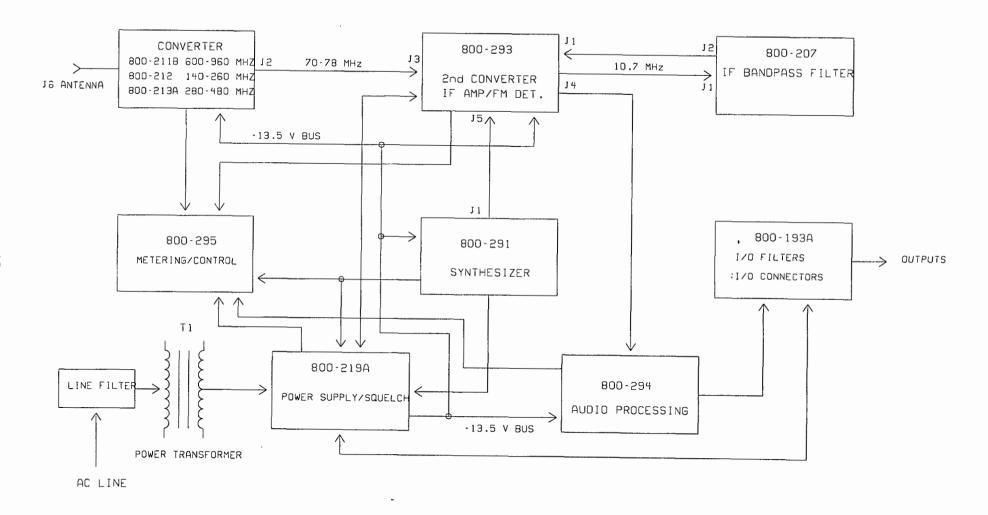
950875	66175	0 1 0 1 0 0 0 0 0 1 0 1 0 0 1 1 1
950900	66200	01010010 10100000
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950950	66250	01010010 10100100
950975	66275	01010010 10100101
Channel	L.O.	DIP Switch S1 DIP Switch S2
Freq.	Freq.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
(KHz)	(KHz)	
951 MHz		
951000	66300	01010010 10100010
951025	66325	01010010 10100011
951050	66350	01010010 10100110
951075	66375	0 1 0 1 0 0 1 0 1 0 1 0 0 1 1 1
951100	66400	0 0 1 1 0 0 0 0 1 0 1 0 0 0 0 0
951125	66425	00110000 10100001
951150	66450	00110000 10100100
951175	66475	0 0 1 1 0 0 0 0 1 0 1 0 0 1 0 1
951200	66500	00110000 10100010
951225	66525	00110000 10100011
951250	66550	00110000 10100110
951275	66575	00110000 1010011
951300	66600	0 0 1 1 0 0 1 0 1 0 1 0 0 0 0 0
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951475	66775	0 0 1 1 0 0 1 0 1 0 1 0 0 1 1 1
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951525	66825	01110000 10100001
951550	66850	0 1 1 1 0 0 0 0 1 0 1 0 0 1 0 0
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951600	66900	0 1 1 1 0 0 0 0 1 0 1 0 0 0 1 0
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951725	67025	01110010 10100001
951750	67050	0 1 1 1 0 0 1 0 1 0 1 0 0 1 0 0
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951800	67100	0 1 1 1 0 0 1 0 1 0 1 0 0 0 1 0
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951975	67275	0 0 0 0 1 0 0 0 1 0 1 0 1 0 1 0 1
Channel	L.O.	DIP Switch S1 DIP Switch S2
Freq.	Freq.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
(KHz)	(KHz)	

	T 61.405		0010001
946125	61425	01001011	00100001
946150	61450	01001011	00100100
946175	61475	01001011	00100101
946200	61500	01001011	00100010
946225	61525	01001011	00100011
946250	61550	01001011	00100110
946275	61575	01001011	00100111
946300	61600	00101001	00100000
946325	61625	00101001	00100001
946350	61650	00101001	00100100
946375	61675	00101001	00100101
946400	61700	00101001	00100010
946425	61725	00101001	00100011
946450	61750	00101001	00160110
946475	61775	00101001	00100111
946500	61800	00101011	00103000
946525	61825	00101011	00100001
946550	61850	00101011	00100100
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946600	61900	00101011	00100010
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946800	62100	01101001	00100010
946825	62125	01101001	0 0 1 0 0 0 1 1
946850	62150	01101001	00100110
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946900	62200	01101011	00103111
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946950	62250	01101011	00103001
946975	62275	01101011	00100100
Channel	L.O.	DIP Switch S1	DIP Switch S2
Channel Freq.	L.O. Freq.		
Channel Freq. (KHz)	L.O.	DIP Switch S1	DIP Switch S2
Channel Freq. (KHz) 947 MHz	L.O. Freq. (KHz)	DIP Switch S1 1 2 3 4 5 6 7 8	DIP Switch S2 9 10 11 12 13 14 15 16
Channel Freq. (KHz) 947 MHz 947000	L.O. Freq. (KHz)	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 3 0 1 0
Channel Freq. (KHz) 947 MHz 947000 947025	L.O. Freq. (KHz) 62300 62325	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 1 0 1 1 0 1 0 1 1	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 3 0 1 0 0 0 1 0 0 0 1 1
Channel Freq. (KHz) 947 MHz 947000 947025 947050	L.O. Freq. (KHz) 62300 62325 62350	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 3 0 1 0 0 0 1 0 0 1 1 0 0 1 3 0 1 1
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075	L.O. Freq. (KHz) 62300 62325 62350 62375	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 0 0 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 1 1 1 0 0 1 0 0 1 1 1
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100	£.O. Freq. (KHz) 62300 62325 62350 62375 62400	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 3 0 1 0 0 0 1 0 0 1 1 0 0 1 0 0 1 1 0 0 1 0 0 1 1 0 0 1 0 0 1 1
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125	L.O. Freq. (KHz) 62300 62325 62350 62375 62400 62425	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 0 0 0 1 0 0 1 1 0 0 1 0 0 1 1 0 0 1 0 0 1 1 1 0 0 1 0 0 1 1 1 0 0 1 0 0 0 0
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150	£.O. Freq. (KHz) 62300 62325 62350 62375 62400	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 3 0 1 0 0 0 1 0 0 1 1 0 0 1 0 0 1 1 0 0 1 0 0 1 1 0 0 1 0 0 1 1
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175	L.O. Freq. (KHz) 62300 62325 62350 62375 62400 62425 62450 62475	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 0 0 1 1 0 0 1 0 0 1 1 1 0 0 0 1 0 0 1 1 1 1
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200	L.O. Freq. (KHz) 62300 62325 62350 62375 62400 62425 62450 62475 62500	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 0 0 1 1 0 0 1 0 0 0 1 1 0 0 1 0 0 1 1 1 0 0 1 0 0 1 1 1 0 0 1 0 0 0 0
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200 947225	L.O. Freq. (KHz) 62300 62325 62350 62375 62400 62425 62450 62475 62500 62525	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 0 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200 947225 947250	L.O. Freq. (KHz) 62300 62325 62350 62375 62400 62425 62450 62475 62500 62525 62550	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 10 0 0 1 0 0 0 1 1 0 0 1 0 0 1 1 1 0 0 1 0 0 0 0
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200 947225 947250 947275	L.O. Freq. (KHz) 62300 62325 62350 62375 62400 62425 62450 62475 62500 62525 62550	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 3 0 1 0 0 0 1 0 0 1 1 0 0 1 0 0 1 1 0 0 1 0 0 0 1 1 0 0 1 0 0 0 0
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200 947225 947250 947275	62300 62325 62350 62375 62400 62425 62450 62475 62500 62555 62550 62575 62600	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 3 0 1 0 0 0 1 0 0 1 1 0 0 1 0 0 1 1 1 0 0 1 0 0 0 1 1 0 0 1 0 0 0 0
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200 947225 947250 947275	L.O. Freq. (KHz) 62300 62325 62350 62375 62400 62425 62450 62475 62500 62525 62550	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 3 0 1 0 0 0 1 0 0 1 1 0 0 1 0 0 1 1 0 0 1 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0
Channel Freq. (KHz) 947 MHz 947000 947025 947075 947100 947125 947150 947175 947200 947225 947250 947275 947300 947325 947350	62300 62325 62350 62375 62400 62425 62450 62475 62500 62555 62550 62575 62600	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 0 0 1 1 0 0 1 0 0 0 1 1 0 0 1 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200 947225 947250 947275 947300 947325 947300 947375	62300 62325 62350 62375 62400 62425 62450 62475 62500 62575 62600 62625	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 3 0 1 0 0 0 1 0 0 1 1 0 0 1 0 0 1 1 0 0 1 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0
Channel Freq. (KHz) 947 MHz 947000 947025 947075 947100 947125 947150 947175 947200 947225 947250 947275 947300 947325 947350	L.O. Freq. (KHz) 62300 62325 62350 62375 62400 62425 62450 62475 62500 62525 62575 62600 62625 62650 62675 62700	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 0 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 1 0 0 1 1 1 0 0 0 1 0 0 1 1 1 0
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200 947225 947250 947275 947300 947325 947300 947375	L.O. Freq. (KHz) 62300 62325 62350 62375 62400 62425 62450 62475 62500 62525 62575 62600 62625 62675 62670 62725	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 1 0 0 1 1 1 0 0 1 0 0 1 1 1 1 0 0 1 0
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200 947225 947250 947275 947300 947325 947300 947325 947300 947325	L.O. Freq. (KHz) 62300 62325 62350 62375 62400 62425 62450 62475 62500 62525 62575 62600 62625 62650 62675 62700	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 0 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 10 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200 947225 947275 947300 947325 947350 947375 947400 947425	L.O. Freq. (KHz) 62300 62325 62350 62375 62400 62425 62450 62475 62500 62525 62575 62600 62625 62675 62670 62725	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 0 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 1 0 0 1 1 1 0 0 1 0 0 1 1 1 1 0 0 1 0
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200 947225 947250 947275 947300 947325 947375 947400 947425 947450	L.O. Freq. (KHz) 62300 62325 62350 62375 62400 62425 62450 62475 62500 62525 62575 62600 62625 62675 62700 62725 62750	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 0 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 10 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200 947225 947250 947250 947375 947300 947325 947375 947400 947425 947450 947475	L.O. Freq. (KHz) 62300 62325 62350 62375 62400 62425 62450 62475 62500 62525 62575 62600 62625 62675 62700 62725 62750 62775	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 1 0 0 1 1 1 0 0 1 0 0 1 1 1 0
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200 947225 947250 947275 947300 947325 947375 947300 947425 947400 947425 947450 947475	L.O. Freq. (KHz) 62300 62325 62350 62375 62400 62425 62450 62550 62575 62600 62625 62650 62675 62700 62725 62750 62775 62800	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 1 0 0 1 1 1 0 0 1 0 0 1 1 1 0 0 0 0 1 1 1 0 0 0 0 1 0
Channel Freq. (KHz) 947 MHz 947000 947025 947075 947100 947125 947150 947175 947200 947225 947250 947275 947300 947325 947375 947400 947425 947450 947475 947500 947525	62300 62325 62350 62375 62400 62425 62450 62475 62500 62575 62600 62625 62650 62675 62700 62725 62700 62725 62700 62725 62850	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 3 0 1 0 0 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0
Channel Freq. (KHz) 947 MHz 947000 947025 947075 947100 947125 947150 947175 947200 947225 947250 947275 947300 947325 947375 947400 947425 947450 947475 947500 947550	L.O. Freq. (KHz) 62300 62325 62350 62375 62400 62425 62450 62550 62575 62600 62625 62650 62675 62700 62725 62750 62775 62800 62825	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 10 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200 947225 947250 947275 947300 947325 947350 947375 947400 947425 947450 947475 947500 947555	62300 62325 62350 62375 62400 62425 62450 62475 62500 62575 62500 62575 62600 62625 62675 62700 62725 62750 62775 62800 62825 62850	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 0 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 10 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0
Channel Freq. (KHz) 947 MHz 947000 947025 947050 947075 947100 947125 947150 947175 947200 947225 947250 947275 947300 947325 947375 947400 947425 947450 947475 947500 947525 947550 947550 947550 947550	L.O. Freq. (KHz) 62300 62325 62350 62375 62400 62425 62450 62475 62500 62525 62550 62575 62600 62625 62675 62700 62725 62700 62725 62800 62825 62850 62875	DIP Switch S1 1 2 3 4 5 6 7 8 0 1 1 0 1 0 1 0 1 1 0 1 1 0 1 0 1 1 0 1 1 0 1 0	DIP Switch S2 9 10 11 12 13 14 15 16 0 0 1 0 0 0 1 10 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 1 0 0 0 0
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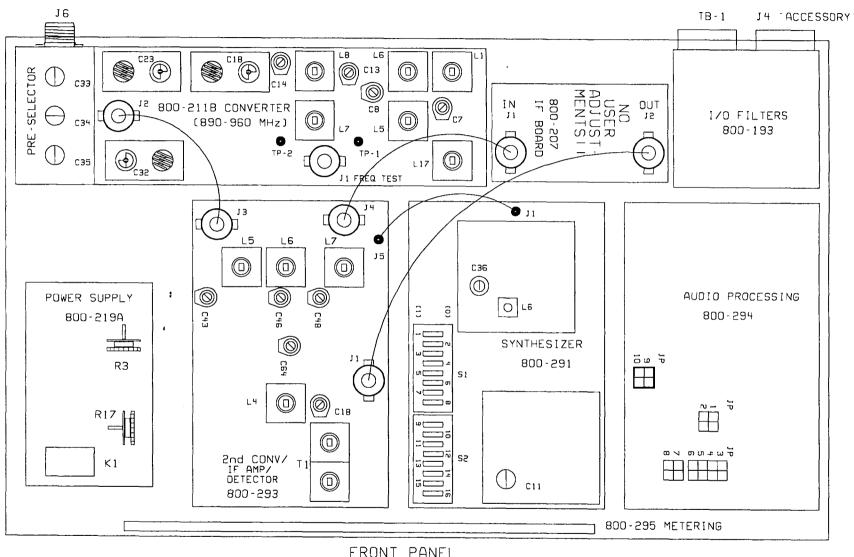
			1 4 4 4 4 4 4 4
949250	64550	01000000	10100110
949275	64575	01000000	10100111
949300	64600	01000010	
949325	64625	01000010	1 1 0 1 0 6 0 0 1
949350	64650	01000010	10100100
			
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949400	64700	01000010	10100010
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949475	64775	01000010	10100111
949500	64800	00100000	1010C000
949525	64825	00100000	10100001
949550	64850	00100000	10100100
			10100101
949575	64875		
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949625	64925	00100000	10103011
949650	64950	00100000	10100110
949675	64975	00100000	10100111
949700	65000	00100010	10100000
949725	65025	001000101	10100001
949750	65050	00100010	
949775	65075	00100010	10100101
		00100010	10100010
949800	65100	00100010	
949825	65125	00100010	10100011
	65150	00100010	10100110
949850			
949875	65175	00100010	10100111
949900	65200	01100000	10100000
949925	65225	01100000	10100001
949950	65250	01100000	10100100
949975	65275	01100000	10100101
Channel.	7.0	DID Switch C1	DIP Switch S2
Channel	L.O.	DIP Switch S1	
Freq.	Freq.	1 2 3 4 5 6 7 8 1	9 10 11 12 13 14 15 16
(KHz)	(KHz)		1
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950000 950025	65325	01100000	10100011
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950000 950025 950050 950075 950100 950125 950150 950125 950225 950225 950250 950275 950300 950325 950375 950375 950400 950425 950475 950475 950500 950525	65325 65350 65375 65400 65425 65450 65475 65500 65525 65550 65575 65600 65625 65675 65675 65775 65775 65800 65825 65825	0 1 1 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0	1 0 1 0 0 0 1 1 1 0 1 0 0 0 1 1 1 0 1 0
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950000 950025 950050 950075 950100 950125 950150 950175 950200 950225 950250 950275 950300 950325 950375 950400 950425 950475 950400 950525 950500 950525 950500	65325 65350 65375 65400 65425 65450 65475 65500 65575 65600 65625 65650 65675 65700 65725 65750 65775 65800 65825 65850 65825	0 1 1 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0	1 0 1 0 3 0 1 1 1 0 1 0 0 0 1 1 0 1 0 1 0 0 0 1 1 1 1 0 1 0
950000 950025 950050 950075 950100 950125 950150 950175 950200 950225 950250 950275 950300 950325 950375 950400 950425 950475 950500 950525 950550 950575 950600 950625	65325 65350 65375 65400 65425 65450 65475 65500 65525 65550 65575 65600 65625 65675 65750 65725 65750 65775 65800 65825 65850 65875 65880 65885 65880 65885	0 1 1 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0	1 0 1 0 3 0 1 1 1 0 1 0 0 0 1 1 1 0 1 0 0 0 1 1 1 0 1 0
950000 950025 950025 950075 950100 950125 950150 950175 950200 950225 950275 950300 950325 950375 950400 950425 950400 950425 950500 950525 950500 950525 950575 950600 950625 950650 950675	65325 65350 65375 65400 65425 65450 65475 65500 65525 65550 65575 65600 65625 65675 65750 65725 65750 65775 65800 65825 65825 65850 65875 65800 65825 65825 65850 65825	0 1 1 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0	1 0 1 0 3 0 1 1 1 0 1 0 0 0 1 1 0 1 0 1 0 0 1 1 1 1 0 1 0
950000 950025 950025 950075 950100 950125 950150 950175 950200 950225 950275 950300 950325 950375 950400 950425 950400 950425 950500 950525 950500 950525 950575 950600 950625 950675 950700	65325 65350 65375 65400 65425 65450 65475 65500 65525 65575 65600 65625 65675 65750 65775 65700 65725 65775 65800 65825 65850 65875 65800 65825 65850 65875 65800 65825 65850	0 1 1 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0	1 0 1 0 3 0 1 1 1 0 1 0 0 0 1 1 0 1 0 1 0 0 0 1 1 1 1 0 1 0
950000 950025 950025 950075 950100 950125 950150 950175 950200 950225 950275 950300 950325 950375 950400 950425 950450 950475 950500 950525 950550 950575 950650 950675 950700 950725	65325 65350 65375 65400 65425 65450 65475 65500 65525 65550 65575 65600 65625 65675 65750 65725 65750 65775 65800 65825 65825 65850 65875 65800 65825 65825 65850 65825	0 1 1 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0	1 0 1 0 3 0 1 1 1 0 1 0 0 0 1 1 0 1 0 1 0 0 0 1 1 1 1 0 1 0
950000 950025 950025 950075 950100 950125 950150 950175 950200 950225 950275 950300 950325 950375 950400 950425 950450 950475 950500 950525 950550 950575 950650 950675 950700 950725	65325 65350 65375 65400 65425 65450 65475 65500 65525 65550 65575 65600 65625 65675 65700 65725 65750 65775 65800 65825 65850 65875 65880 65875 65880 65875 65980 65925 65950 65925 65975	0 1 1 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0	1 0 1 0 3 0 1 1 1 0 1 0 0 0 1 1 0 1 0 1 0 0 0 1 1 1 1 0 1 0
950000 950025 950025 950075 950100 950125 950150 950175 950200 950225 950275 950300 950325 950375 950400 950425 950450 950450 950450 950550 950575 950650 950625 950725 950725	65325 65350 65375 65400 65425 65450 65475 65500 65525 65550 65575 65600 65675 65775 65800 65825 65850 65875 65880 65875 65880 65875 65900 65925 65975 66000 66025 66050	0 1 1 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0	1 0 1 0 3 0 1 1 1 0 1 0 0 0 1 1 0 1 0 1 0 0 0 1 1 1 1 0 1 0
950000 950025 950025 950075 950100 950125 950150 950175 950200 950225 950275 950300 950325 950375 950400 950425 950450 950475 950500 950525 950550 950575 950650 950675 950700 950725	65325 65350 65375 65400 65425 65450 65475 65500 65525 65500 65625 65650 65675 65700 65725 65750 65775 65800 65825 65850 65875 65880 65875 65880 65875 65890 65925 65950 65925 65975	0 1 1 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0	1 0 1 0 3 0 1 1 1 0 1 0 3 0 1 1 1 0 1 0 0 1 1 0 1 0 1 0 0 0 1 1 1 0 1 0
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950000 950025 950050 950075 950100 950125 950150 950175 950200 950225 950250 950275 950300 950325 950375 950400 950425 950475 950500 950525 950500 950525 950500 950525 950500 950650 950650 950650 950755 950700 950725 950775	65325 65350 65375 65400 65425 65450 65475 65500 65525 65550 65575 65600 65625 65650 65675 65700 65725 65750 65775 65800 65825 65850 65875 65800 65825 65850 65875 65800 65825 65875 65800 65825 65875 65800 65825 65875 65800 65925 65950 65925 65950 65925 65950 65925 65950 65925 65950 65925 65950 65925 65950 65925 65950 65925 65950 65925 65950 65925 65950 65975 66000 66025 66050 66075 66075 66100	0 1 1 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0	1 0 1 0 0 0 1 1 1 0 1 0 0 0 1 1 1 0 1 0
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950875	66175	01010000	10100111
950900	66200	01010010	10100000
950925	66225	01010010	10100001
950950	66250	0 1 0 1 0 0 1 0	10100100
950975	66275	01010010	10100101
Channe1	L.O.	DIP Switch S1	DIP Switch S2
Freq.	Freq.	12345678	9 10 11 12 13 14 15 16
(KHz)	(KHz)		
951 MHz			
951000	66300	01010010	10100010
951025	66325	01010010	10100011
951050	66350	01010010	10100110
951075	66375	01010010	10100111
951100	66400	00110000	10100000
951125	66425	00110000	10100001
951150	66450	00110000	10100100
951175	66475	00110000	10100101
951200	66500	00110000	10100010
951225	66525	00110000	10100011
951250	66550	00110000	10100110
951275	66575	00110000	10100111
951300	66600	0011.310	10100000
951325	66625	00110010	10100001
951350	66650	00110010	10100100
951375	66675	00110010	10100101
951400	66700	00110010	10100010
951425	66725	00110010	10100011
951450	66750	00110010	10100110
951475	66775	0 0 1 1 0 0 1 0	10100111
951500	66800	0 1 1 1 0 0 0 0	10100000
951525	66825	0 1 1 1 0 0 0 0	10100001
951550	66850	01110000	10100100
951575	66875	0 1 1 1 0 0 0 0	10100101
951600	66900	0 1 1 1 0 0 0 0	10100010
951625	66925	0 1 1 1 0 0 0 0	10100011
951650	66950	0 1 1 1 0 0 0 0	10100110
951675	66975	0 1 1 1 0 0 0 0	10100111
951700	67000	0 1 1 1 0 0 1 0	10100000
951725	67025	0 1 1 1 0 0 1 0	10100001
951750	67050	0 1 1 1 0 0 1 0	10100100
951775	67075	0 1 1 1 0 0 1 0	10100101
951800	67100	01110010	10100010
951825	67125	01110010	10100011
951850	67150	01110010	10100110
951875	67175	01110010	10100111
951900	67200	00001000	10100000
951925	67225	00001000	10100001
951950	67250	00001000	10100100
951975	67275	00001000	10100101
Channel	L.O.	DIP Switch S1	DIP Switch S2
Freq.	Freq.	1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16
(KHz)	(KHz)		



REFER TO SCHEMATIC DIAGRAM FOR EACH BLOCK BY NUMBER

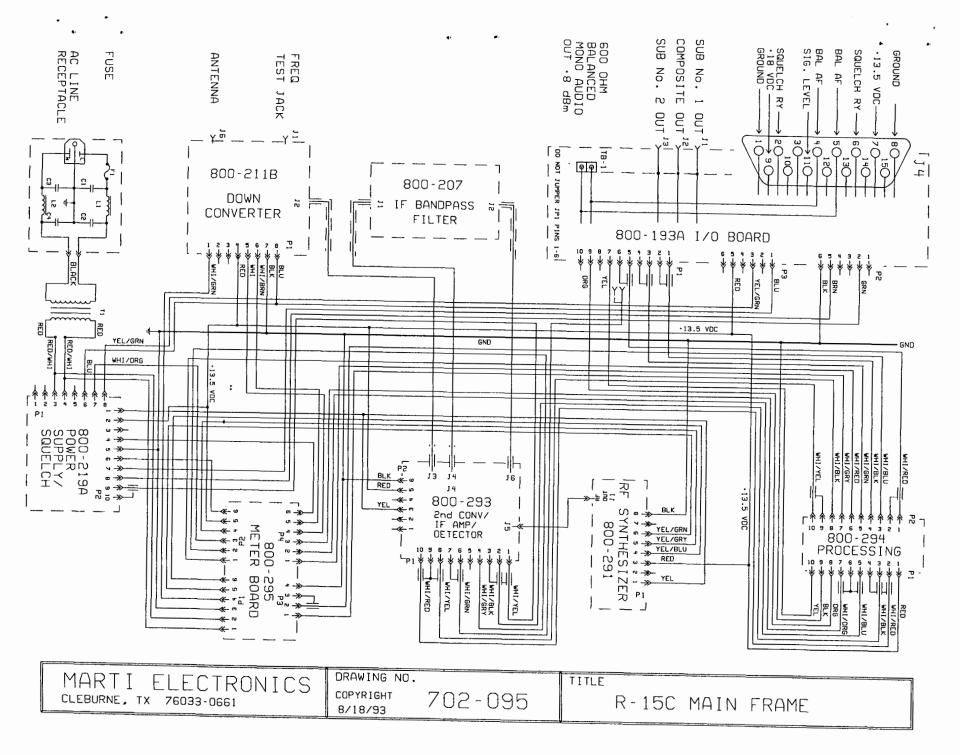
MARTI ELECTRONICS	DRAWING NO.	TITLE
CLEBURNE, TX 76033-0661	COPYRIGHT 702-100	R-15C RECEIVER BLOCK DIAGRAM
		



FRONT PANEL

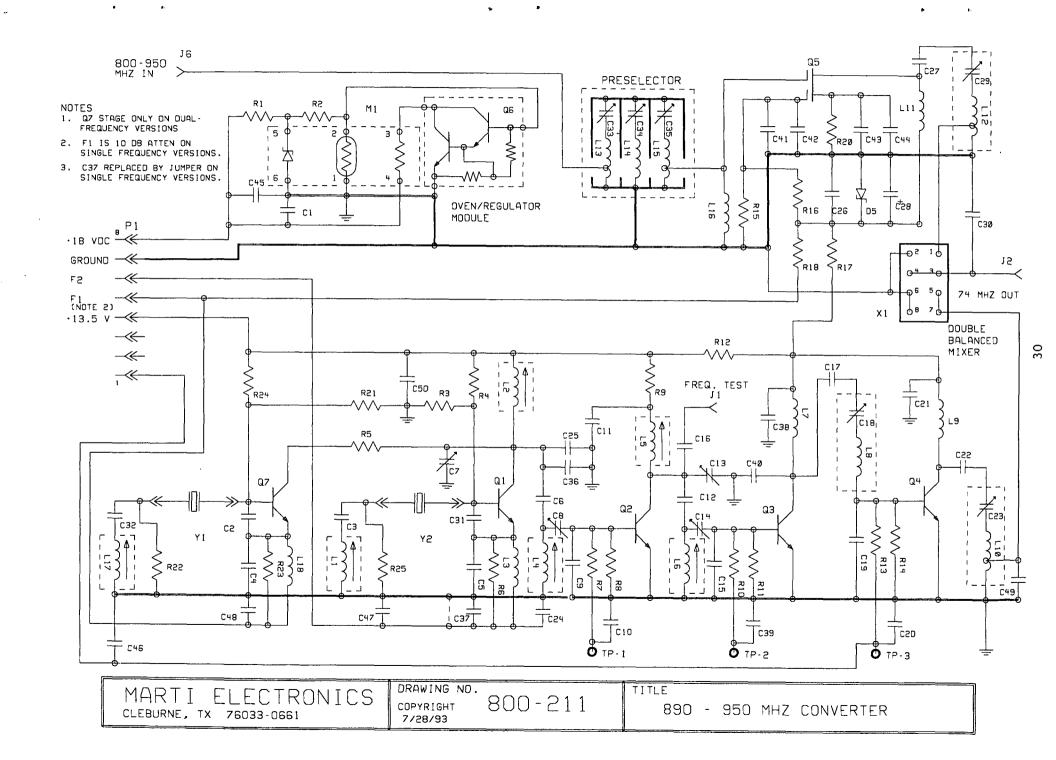
MARTI FLECTRONICS	DRAWING NO.	TITLE
CLEBURNE, TX 76033-0661	COPYRIGHT 702-099 7/23/93	R-15C ADJUSTMENT LOCATIONS





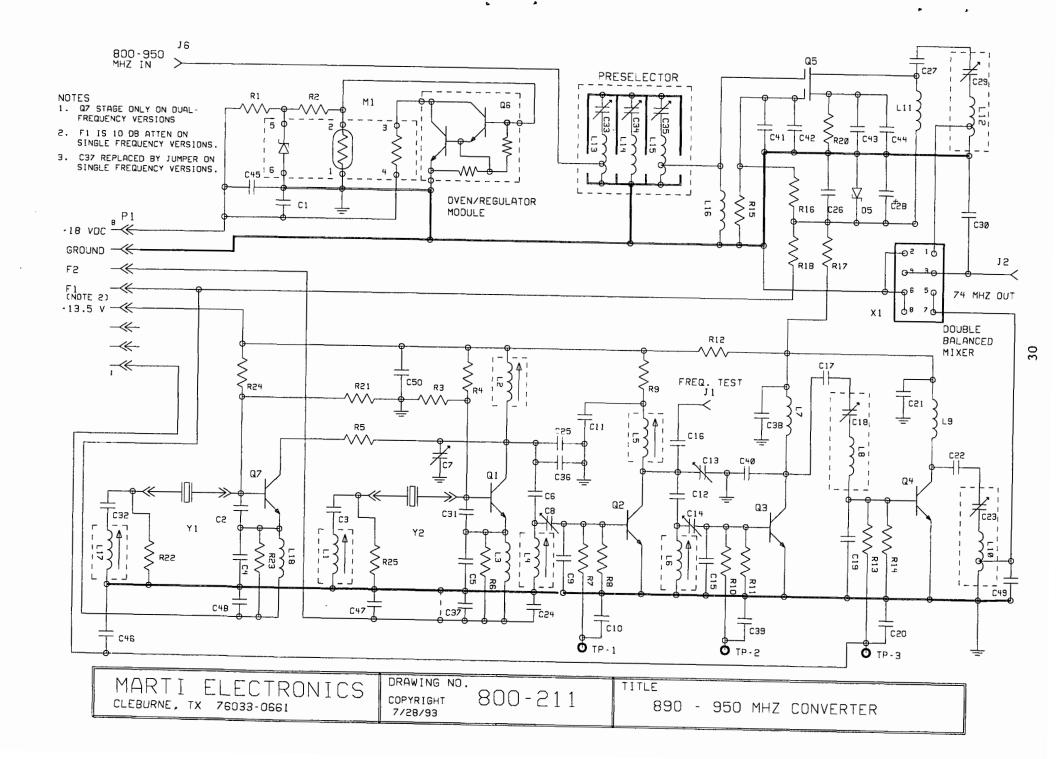
Parts List Main Frame MARTI 702-095 06-23-93

Item	Marti No.	Description
C1 C2	297-201 297-201	Capacitor, .0022 mfd, Type AU disc Capacitor, .0022 mfd, Type AU disc
C3 C4	297-201 297-201	Capacitor, .0022 mfd, Type AU disc Capacitor, .0022 mfd, Type AU disc
F1	237 201	Fuse,
L1 L2	330-019 330-019	Inductor, VK20010-3B Inductor, VK20010-3B
Т1	320-046L 320-046AL	Transformer, Power 110 volt AC primary Transformer, Power 220 volt AC primary



Parts List Main Frame MARTI 702-095 06-23-93

Item	Marti No.	Description
C1 C2 C3 C4	297-201 297-201 297-201 297-201	Capacitor, .0022 mfd, Type AU disc Capacitor, .0022 mfd, Type AU disc Capacitor, .0022 mfd, Type AU disc Capacitor, .0022 mfd, Type AU disc
F1		Fuse,
L1 L2	330-019 330-019	Inductor, VK20010-3B Inductor, VK20010-3B
Т1	320-046L 320-046AL	Transformer, Power 110 volt AC primary Transformer, Power 220 volt AC primary



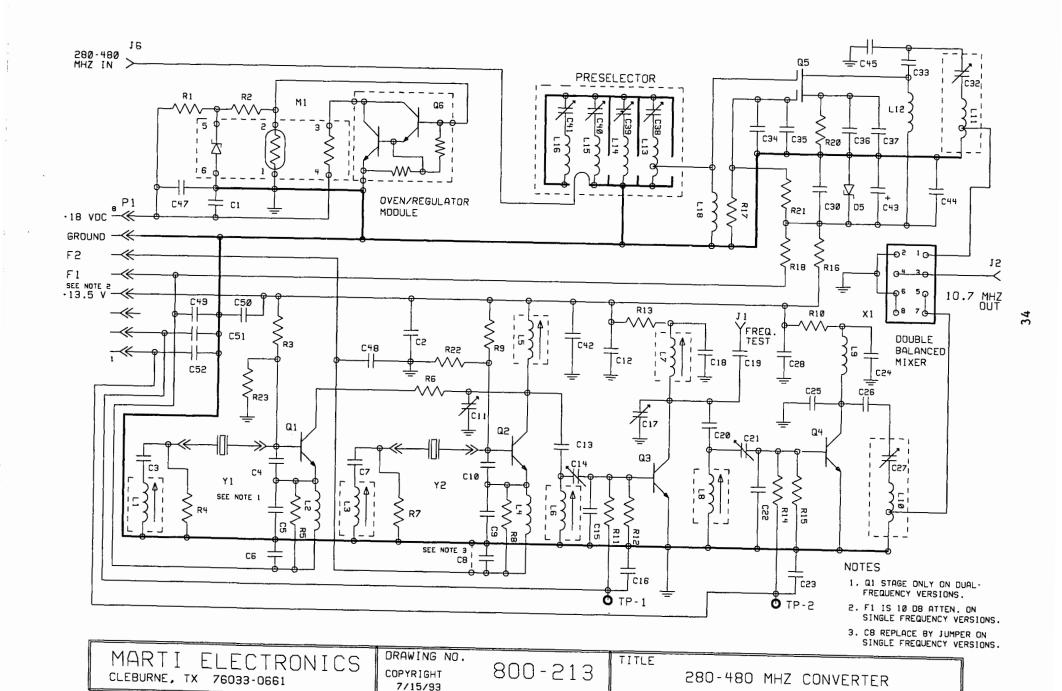
Parts List R-10/950 SF Converter Board MARTI 800-211 07-29-93

Item	Marti No.	Description	n
C01 C02	217-104 NOT USED	Capacitor,	.01 mf 50v GMV disc
C03 C04	255-150 NOT USED	Capacitor,	15 pf 5% NPO disc
C05	255-750	Capacitor,	75 pf 5% NPO disc
C06	255-010	Capacitor,	-
C07	290-521	Capacitor,	
C08	290-521	Capacitor,	
C09	255-470C	Capacitor,	-
C10	268-102	Capacitor,	
C11	268-102	Capacitor,	.001 mf 50v Z5U disc -20+80%
C12	255-004	Capacitor,	
C13	290-522	Capacitor,	
C14	290-522	Capacitor,	
C15	255-150	Capacitor,	15 pf 5% NPO disc
C16	255-050	Capacitor,	5 pf 5% NPO disc
C17	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C18	230-103	Capacitor,	
C19	255-100	Capacitor,	10 pf 5% NPO disc
C20	268-102	Capacitor,	.001 mf 50v Z5U disc -20+80%
C21	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C22	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C23	230-103	Capacitor,	variable, vertical 1.3-5.4 pf T
C24	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C25	268-102	Capacitor,	.001 mf 50v Z5U disc -20+80%
C26	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C27	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C28	219-200	Capacitor,	electrolytic 22uF 25V
C29	230-103	Capacitor,	variable, vertical 1.3-5.4 pf T
C30	270-407	Capacitor,	monolithic chip, 4.7 pf 50v 5% 15 pf 5% NPO disc
C31 C32	255-150 NOT USED	Capacitor,	15 pt 5% NPO disc
C32	230-100	Canaditor	variable, trimmer 8-8 pf JMC#52
C34	230-100	Capacitor,	
C35	230-100	Capacitor,	variable, trimmer 8-8 pf JMC#52
C36	217-103		.1 mf 100v 10% mylar
C37	JUMPERED		
C38	268-102	Capacitor,	.001 mf 50v Z5U disc -20+80%
C39	268-102	Capacitor,	.001 mf 50v Z5U disc -20+80%
C40	270-407	Capacitor,	monolithic chip, 4.7 pf 50v 5%
C41	270-102	Capacitor,	
C42	270-102	Capacitor,	
C43	270-102	Capacitor,	
C44	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C45	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C46	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C47	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C48	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C49	270-407	Capacitor,	monolithic chip, 4.7 pf 50v 5%
C50	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
D1	NOT USED		

Item	Marti No.	Description
	NOT USED NOT USED NOT USED	
D5 J1	410-754 550-084 550-084	Diode, zener Motorola 1N754A 6.3v Connector, Phono Jack, Molex 15-24-0503 Connector, Phono Jack, Molex 15-24-0503
		<pre>Inductor, 1.0 - 2 uH w/shield can #47271 Inductor, 6 1/2 turn blue #144-06J12S</pre>
L03 L04 L05	350-007 350-040 350-039	Inductor, 1 uH Delevan #1840-10 Inductor, 6 1/2 turn blue #144-06J12S Inductor, 2 1/2 turn red #144-02J12S
L06 L07 L08	350-039 350-121 350-163	Inductor, 2 1/2 turn red #144-02J12S Inductor, 10 turn .15 uH #70-03 Inductor, 3 turn 18AWG
L09 L10	350-044 350-040 330-007 350-040 350-039 350-121 350-163 350-121 350-139P 350-121	Inductor, 10 turn .15 uH #70-03 Inductor, 16 AWG 950 MHz silver
L12	350-121 350-139P 700-238	Inductor, 950 MHz Stripline
L14 L15	700-238 700-238 350-121	Inductor, 950 MHz Stripline Inductor, 950 MHz Stripline Inductor, 10 turn .15 uH #70-03
L17 L18	NOT USED NOT USED 520-052A	Receiver Converter Oven
Q1 Q2	440-245 420-090	Transistor, SRF3017 Transistor, BFY90
Q4	420-090 420-090 420-966	Transistor, BFY90 Transistor, BFY90 Transistor, CF300A Telefunken GaAs FET
Q7	part of M1 NOT USED	Resistor, 680 ohm 1/4 watt 5% metal film
R02 R03	145-332-1 145-683	Resistor, 3.3k ohm 1/4 watt 2% RL07S332G Resistor, 68k ohm 1/4 watt 5% metal film Resistor, 68k ohm 1/4 watt 5% metal film
R06	145-683 NOT USED 145-331	Resistor, 330 ohm 1/4 watt 5% metal film
R08	145-103 145-102 145-331	Resistor, 10k ohm 1/4 watt 5% metal film Resistor, 1k ohm 1/4 watt 5% metal film Resistor, 330 ohm 1/4 watt 5% metal film
R11	145-103 145-102 145-220	Resistor, 10k ohm 1/4 watt 5% metal film Resistor, 1k ohm 1/4 watt 5% metal film Resistor, 22 ohm 1/4 watt 5% metal film
R13 R14	145-562-1 145-102	Resistor, 5.6k ohm 1/4 watt 2% RL07S562G Resistor, 1k ohm 1/4 watt 5% metal film Resistor, 7.5k ohm 1/4 watt 5% metal film
R16 R17	145-752 145-123 145-271	Resistor, 12k ohm 1/4 watt 5% metal film Resistor, 270 ohm 1/4 watt 5% metal film
R18 R19	145-121-1 NOT USED	Resistor, 120 ohm 1/4 watt 2% RL07S121G

Parts List R-10/950 SF Converter Board MARTI 800-211 07-29-93

Item	Marti No.	Description
R20 R21 R22 R23 R24	145-101 NOT USED NOT USED NOT USED NOT USED	Resistor, 100 ohm 1/4 watt 5% metal film
R25	145-152	Resistor, 1.5k ohm 1/4 ohm 5% metal film
X1 Y1	350-125 520-040	Mixer, SBL-1X Crystal socket, CS-109-07
	520-041 520-052A	Clip, transistor, Atlee 100-200-1-2 cad pl Receiver Converter Oven
	800-211B 550-173 350-046	PC Board, Converter R Receiver Connector, 2 pin Molex Header Coil Cans 20k #47271-012



Parts List 300 MHz SF Converter Board MARTI 800-213 07-26-93

Item	Marti No.	Descriptio	n .
C01 C02 C03 C04 C05	217-104 217-103 NOT USED NOT USED NOT USED		.01 mf 50v GMV disc .1 mf 100v 10% mylar
C06 C07	NOT USED 255-220	Capacitor,	22 pf 5% NPO disc
C08 C09	JUMPERED 255-750	Capacitor,	75 pf 5% NPO disc
C10	255-100		10 pf 5% NPO disc
C11	290-521		variable, 5-25 pf GKU-25000
C12	217-103		.1 mf 100v 10% mylar
C13	255-020		2 pf 5% type QC
C14	290-521		variable, 5-25 pf GKU-25000
C15	255-470C		47pF 5% 200V ceramic dipped
C16	268-102		.001 mf 50v Z5U disc -20+80%
C17	290-521		variable, 5-25 pf GKU-25000
C18	268-102		.001 mf 50v Z5U disc -20+80%
C19	255-050	Capacitor,	
C20	255-010 290-521	Capacitor,	variable, 5-25 pf GKU-25000
C21 C22	255-220	Capacitor,	
C22	268-102	Capacitor,	-
C24	270-102	Capacitor,	
C25	270-407	Capacitor,	
C26	270-102	Capacitor,	
C27	290-521		variable, 5-25 pf GKU-25000
C28	268-102	Capacitor,	
C29	NOT USED	_	
C30 C31	270-102 NOT USED	Capacitor,	monolithic chip, 1000 pf 50v 5%
C32	290-521	Capacitor,	variable, 5-25 pf GKU-25000
C33	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C34	270-102	Capacitor,	
C35	270-102		monolithic chip, 1000 pf 50v 5%
C36	270-102	Capacitor,	
C37	270-102	Capacitor,	
C38	230-100	Capacitor,	
C39	230-100	Capacitor,	
C40	230-100	Capacitor,	•
C41	230-100	Capacitor, Capacitor,	
C42 C43	268-102 219-200	Capacitor,	
C43	270-102	Capacitor,	
C45	270-407	Capacitor,	
C46	NOT USED	Japan	
C47	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C48	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C49	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C50	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C51	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%

Item	Marti No.	Description
C52 D1 D2 D3	NOT USED NOT USED	Capacitor, monolithic chip, 1000 pf 50v 5%
D5 L01	NOT USED 410-470 NOT USED NOT USED	Diode, zener, 1N4732 4.7v
L03 L04 L05 L06 L07 L08	350-044 330-007 350-040 350-040 350-039 350-039 350-121	Inductor, 1.0 - 2 uH w/shield can #47271 Inductor, 1 uH Delevan #1840-10 Inductor, 6 1/2 turn blue #144-06J12S Inductor, 6 1/2 turn blue #144-06J12S Inductor, 2 1/2 turn red #144-02J12S Inductor, 2 1/2 turn red #144-02J12S Inductor, 2 1/2 turn red #144-02J12S Inductor, 10 turn .15 uH #70-03
L10 L11	350-162 350-161	Inductor, 5 turn 18 AWG Inductor, 4 turn 18 AWG Inductor, .33 uH Strip Line, Brass (straight) Strip Line, R-10/300 Pre-Selector
I*I T	700-232 700-239 700-232 350-136 350-135 350-121 520-052A	Strip Line, Brass (straight) Inductor, 14 AWG 450 MHz Inductor, 16 AWG 450 MHz Inductor, 16 turn .15 uH #70-03 Receiver Converter Oven
Q1 Q2 Q3 Q4 Q5 R01 R02	NOT USED 440-245 440-245 440-245 441-137 145-681 145-332-1 NOT USED	Transistor, SRF3017 Transistor, SRF3017 Transistor, SRF3017 Transistor, NE25337 FET K-205 Resistor, 680 ohm 1/4 watt 5% metal film Resistor, 3.3k ohm 1/4 watt 2% RL07S332G
R04 R05 R06 R07 R08	NOT USED NOT USED NOT USED 145-152 145-331	Resistor, 1.5k ohm 1/4 ohm 5% metal film Resistor, 330 ohm 1/4 watt 5% metal film
R09 R10 R11 R12 R13 R14 R15	145-104 145-331 145-103 145-102 145-331 145-103	Resistor, 100k ohm 1/4 watt 5% metal film Resistor, 330 ohm 1/4 watt 5% metal film Resistor, 10k ohm 1/4 watt 5% metal film Resistor, 1k ohm 1/4 watt 5% metal film Resistor, 330 ohm 1/4 watt 5% metal film Resistor, 10k ohm 1/4 watt 5% metal film Resistor, 2.7k ohm 1/4 watt 5% metal film
R16 R17 R18 R19	145-431 145-562 145-680-C NOT USED 145-101 145-123	Resistor, 430 ohm 1/4 watt 5% metal film Resistor, 5.6k ohm 1/4 watt 5% metal film Resistor, 68 ohm 1/4 watt 5% carbon comp Resistor, 100 ohm 1/4 watt 5% metal film Resistor, 12k ohm 1/4 watt 5% metal film

Parts List 300 MHz SF Converter Board MARTI 800-213 07-26-93

Item	Marti No.	Description
R22	NOT USED	
R23	NOT USED	
X1	350-124	Mixer, SBL-1
	550-165	Connector, 4 pin Molex Header
	520-052A	Receiver Converter Oven
	700-246	Fingerstock, adhesive backed #97-515-02
	800-213B	PC Board, Converter R Receiver
	350-046	Coil Cans 20k #47271-012
	520-040	Crystal socket, CS-109-07
	520-041	Clip, transistor, Atlee 100-200-1-2 cad pl
	550-084	Connector, Phono Jack, Molex 15-24-0503

Item	Marti No.	Description	n
C01	217-104	Capacitor,	.01 mf 50v GMV disc
C02	217-103	Capacitor,	.1 mf 100v 10% mylar
C03	NOT USED		
C04	NOT USED		
C05	NOT USED		
C06	217-104		.01 mf 50v GMV disc
C07	255-150	Capacitor,	15 pf 5% NPO disc
C08	JUMPERED	Compaiton	75 of 5% NDO diag
C09	255-750	Capacitor,	
C10	255-150 290-522	Capacitor, Capacitor,	
C11 C12	217-103	Capacitor,	.1 mf 100v 10% mylar
C12	255-010	Capacitor,	——————————————————————————————————————
C13	290-522	Capacitor,	
C15	255-470C	Capacitor,	
C16	268-102	Capacitor,	
C17	290-522	Capacitor,	
C18	268-102	Capacitor,	
C19	255-050	Capacitor,	
C20	255-010	Capacitor,	
C21	290-522	Capacitor,	variable, 2.8-10 pf GKU-10000
C22	255-150	Capacitor,	
C23	268-102	Capacitor,	
C24	270-102	Capacitor,	
C25	270-407	Capacitor,	
C26	270-102	Capacitor,	
C27	290-521	Capacitor,	
C28	268-102	Capacitor,	.001 mf 50v Z5U disc -20+80%
C29	NOT USED	Canaditor	monolithic chip, 1000 pf 50v 5%
C30	270-102 NOT USED	Capacitoi,	monoritine entp, 1000 pr 300 30
C31 C32	290-521	Capacitor,	variable, 5-25 pf GKU-25000
C32	270-102	Capacitor,	
C34	270-102	Capacitor,	
C34	270-102	Capacitor.	monolithic chip, 1000 pf 50v 5%
C36	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C37	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C38	230-100	Capacitor,	variable, trimmer 8-8 pf JMC#52
C39	230-100	Capacitor,	variable, trimmer 8-8 pf JMC#52
C40	230-100	Capacitor,	variable, trimmer 8-8 pf JMC#52
C41	230-100	Capacitor,	
C42	268-102	Capacitor,	.001 mf 50v Z5U disc -20+80%
C43	219-200		electrolytic 22uF 25V
C44	270-102	Capacitor,	
C45	270-407	Capacitor,	monolithic chip, 4.7 pf 50v 5%
C46	NOT USED	0	manalithia shim 1000 mf E0. 50
C47	270-102	Capacitor,	
C48	270-102	Capacitor, Capacitor,	
C49 C50	270-102 270-102	Capacitor,	
C51	270-102	Capacitor,	
~J+	270 102	capacitoi,	

Parts List 450 MHz SF Converter Board MARTI 800-213 07-26-93

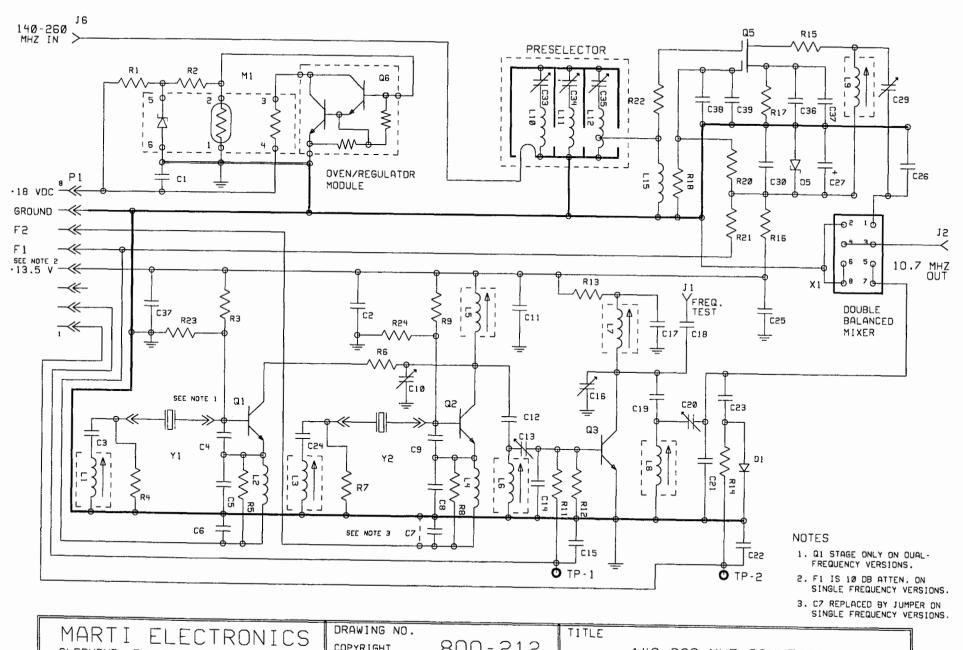
Item	Marti No.	Description
C52 D1 D2 D3 D4		Capacitor, monolithic chip, 1000 pf 50v 5%
D5 L01	410-754 NOT USED NOT USED	Diode, zener Motorola 1N754A 6.3v
L03 L04	350-044 330-007 350-040 350-040	<pre>Inductor, 1.0 - 2 uH w/shield can #47271 Inductor, 1 uH Delevan #1840-10 Inductor, 6 1/2 turn blue #144-06J12S Inductor, 6 1/2 turn blue #144-06J12S</pre>
L07 L08 L09	350-039 350-039 350-121	Inductor, 2 1/2 turn red #144-02J12S Inductor, 2 1/2 turn red #144-02J12S Inductor, 10 turn .15 uH #70-03
L10 L11 L12 L13	350-127 350-127 350-121 700-239	Inductor, 3 turn 16 AWG 3/16 ID Inductor, 3 turn 16 AWG 3/16 ID Inductor, 10 turn .15 uH #70-03 Strip Line, R-10/300 Pre-Selector
L14 L15 L16 L17	700-239 700-239 350-136 350-135	Strip Line, R-10/300 Pre-Selector Strip Line, R-10/300 Pre-Selector Inductor, 14 AWG 450 MHz Inductor, 16 AWG 450 MHz
L18 Q1 Q2	350-121 NOT USED 440-245	Inductor, 10 turn .15 uH #70-03 Transistor, SRF3017
Q4 Q5	440-245 440-245 420-966	Transistor, SRF3017 Transistor, SRF3017 Transistor, CF300A Telefunken GaAs FET
R03 R04	145-681 145-332-1 NOT USED NOT USED	Resistor, 680 ohm 1/4 watt 5% metal film Resistor, 3.3k ohm 1/4 watt 2% RL07S332G
R05 R06 R07 R08	NOT USED NOT USED 145-152 145-331	Resistor, 1.5k ohm 1/4 ohm 5% metal film Resistor, 330 ohm 1/4 watt 5% metal film
R09 R10 R11	145-683 145-331 145-103	Resistor, 68k ohm 1/4 watt 5% metal film Resistor, 330 ohm 1/4 watt 5% metal film Resistor, 10k ohm 1/4 watt 5% metal film
R12 R13 R14 R15	145-102 145-331 145-223 145-272	Resistor, 1k ohm 1/4 watt 5% metal film Resistor, 330 ohm 1/4 watt 5% metal film Resistor, 22k ohm 1/4 watt 5% metal film Resistor, 2.7k ohm 1/4 watt 5% metal film
R16 R17 R18	145-221 145-752 145-151	Resistor, 2.7k ohm 1/4 watt 5% metal film Resistor, 7.5k ohm 1/4 watt 5% metal film Resistor, 150 ohm 1/4 watt 5% metal film
R19 R20 R21 R22	NOT USED 145-101 145-123 NOT USED	Resistor, 100 ohm $1/4$ watt 5% metal film Resistor, 12k ohm $1/4$ watt 5% metal film

Parts List 450 MHz SF Converter Board MARTI 800-213 07-26-93

Item	Marti No.	Description
R23	145-683	Resistor, 68k ohm 1/4 watt 5% metal film
X1	350-124	Mixer, SBL-1
Y2	520-040	Crystal socket, CS-109-07
	350-046	Coil Cans 20k #47271-012
	800-213B	PC Board, Converter R Receiver
	700-246	Fingerstock, adhesive backed #97-515-02
	520-052A	Receiver Converter Oven
	520-041	Clip, transistor, Atlee 100-200-1-2 cad pl
	550-084	Connector, Phono Jack, Molex 15-24-0503
	550-165	Connector, 4 pin Molex Header

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CLEBURNE, TX 76033-0661

TITLE

140-260 MHZ CONVERTER

Parts List 150 MHz SF Converter Board MARTI 800-212 07-26-93

Item	Marti No.	Description
C01 C02 C03 C04 C05 C06	217-104 217-103 NOT USED NOT USED NOT USED NOT USED JUMPERED	Capacitor, .01 mf 50v GMV disc Capacitor, .1 mf 100v 10% mylar
C08	255-750	Capacitor, 75 pf 5% NPO disc
C09	255-150	Capacitor, 15 pf 5% NPO disc
C10	290-522	Capacitor, variable, 2.8-10 pf GKU-10000
C11	217-103	Capacitor, .1 mf 100v 10% mylar
C12	255-030	Capacitor, 3 pf 5% type QC
C13	290-521	Capacitor, variable, 5-25 pf GKU-25000
C14 C15	255-180 268-102	Capacitor, 18 pf 5% NPO disc Capacitor, .001 mf 50v Z5U disc -20+80%
C15	290-522	Capacitor, variable, 2.8-10 pf GKU-10000
C17	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
C18	255-050	Capacitor, 5 pf 5% NPO disc
C19	255-010	Capacitor, 1 pf 5% type QC
C20	290-522	Capacitor, variable, 2.8-10 pf GKU-10000
C21	255-030-1	Capacitor, 3 pf 5% NPO disc
C22	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
C23	255-100	Capacitor, 10 pf 5% NPO disc Capacitor, 12 pf 5% NPO disc
C24 C25	255-120 268-102	Capacitor, 12 pr 3% NFO disc -20+80%
C25	255-180	Capacitor, 18 pf 5% NPO disc
C27	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
C28	NOT USED	
C29	290-522	Capacitor, variable, 2.8-10 pf GKU-10000
C30	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
C31	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
C32	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
C33	230-100	Capacitor, variable, trimmer 8-8 pf JMC#52
C34 C35	230-100 230-100	Capacitor, variable, trimmer 8-8 pf JMC#52 Capacitor, variable, trimmer 8-8 pf JMC#52
C36	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
C37	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
C38	270-102	Capacitor, monolithic chip, 1000 pf 50v 5%
D1	412-494	Diode, Germanium, 1N270
J1	550-084	Connector, Phono Jack, Molex 15-24-0503
J2	550-084	Connector, Phono Jack, Molex 15-24-0503
L01	NOT USED	
L02	NOT USED 350-044	Inductor, 1.0 - 2 uH w/shield can #47271
L03 L04	330-044	Inductor, 1.0 - 2 un wyshieid can #47271 Inductor, 1 uH Delevan #1840-10
L05	350-043	Inductor, 4 1/2 turn yellow
	350-043	Inductor, 4 1/2 turn yellow
L07	350-043	Inductor, 4 1/2 turn yellow
L08	350-043	Inductor, 4 1/2 turn yellow
	350-043	Inductor, 4 1/2 turn yellow
L10	350-129	Inductor, 8 turn 16 AWG 5/16 ID

Parts List 150 MHz SF Converter Board MARTI 800-212 07-26-93

Item	Marti No.	Description
L11 L12 Q1	350-129 350-129 NOT USED	Inductor, 8 turn 16 AWG 5/16 ID Inductor, 8 turn 16 AWG 5/16 ID
	440-245	Transistor, SRF3017
	440-245	Transistor, SRF3017
Q4	428-837	Transistor, BF966S 3SK88
R01	145-681	Resistor, 680 ohm 1/4 watt 5% metal film
R02	145-332-1	Resistor, 3.3k ohm 1/4 watt 2% RL07S332G
R03	NOT USED	
R04	NOT USED	
R05	NOT USED	
R06	NOT USED	
R07	145-152	Resistor, 1.5k ohm 1/4 ohm 5% metal film
R08	145-331	Resistor, 330 ohm 1/4 watt 5% metal film
R09	145-683	Resistor, 68k ohm 1/4 watt 5% metal film
R10 R11	145-470-C 145-272	Resistor, 47 ohm 1/4 watt 5% carbon comp Resistor, 2.7k ohm 1/4 watt 5% metal film
R11 R12	145-272	Resistor, 1k ohm 1/4 watt 5% metal film
R12 R13	145-102	Resistor, 330 ohm 1/4 watt 5% metal film
R13	145-152	Resistor, 1.5k ohm 1/4 ohm 5% metal film
R15	145-300	Resistor, 30 ohm 1/4 watt 5% metal film
R16	145-470-C	Resistor, 47 ohm 1/4 watt 5% carbon comp
R17	145-562	Resistor, 5.6k ohm 1/4 watt 5% metal film
R18	145-223	Resistor, 22k ohm 1/4 watt 5% metal film
R19	145-241-1	Resistor, 240 ohm 1/4 watt 2% RL07S241G
R20	145-474	Resistor, 470k ohm 1/4 watt 5% metal film
R21	145-682-1	Resistor, 6.8k ohm 1/4 watt 2% RL07S682G
	145-030-C	Resistor, 3.3 ohm 1/4 watt 5% carbon comp
X1	350-124	Mixer, SBL-1
Y2	520-040	Crystal socket, CS-109-07
	550-165	Connector, 4 pin Molex Header
	511-038	Terminal, #1238
		PC Board, Converter R Receiver
	520-052A	Receiver Converter Oven

Parts List 215 MHz SF Converter Board MARTI 800-212 07-26-93

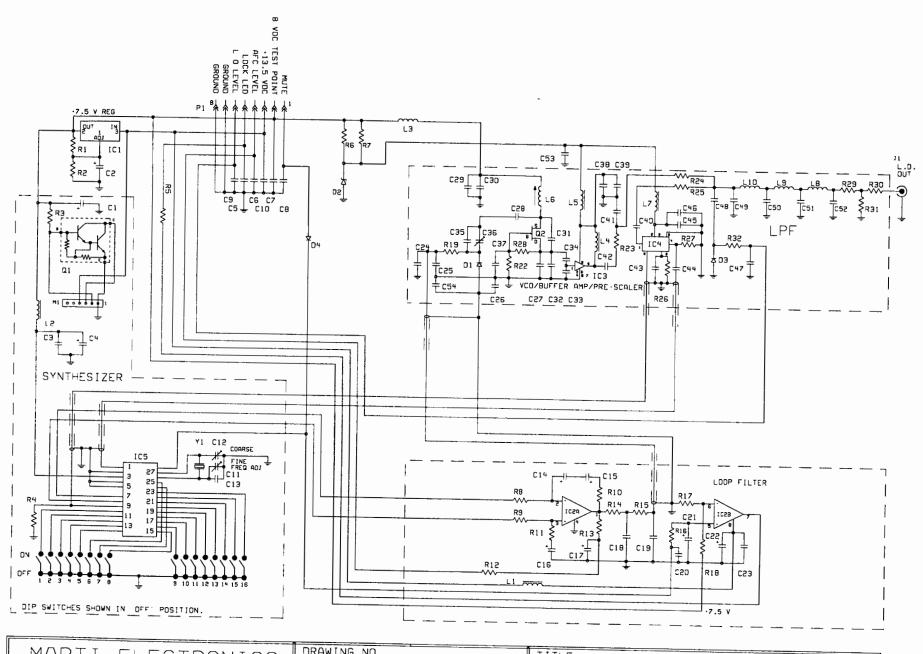
Item	Marti No.	Description
C01 C02 C03 C04 C05 C06	217-104 217-103 NOT USED NOT USED NOT USED NOT USED JUMPERED	Capacitor, .01 mf 50v GMV disc Capacitor, .1 mf 100v 10% mylar
C08	255-750	Capacitor, 75 pf 5% NPO disc
C09	255-150	Capacitor, 15 pf 5% NPO disc
C10	290-521	Capacitor, variable, 5-25 pf GKU-25000
C11	217-103	Capacitor, .1 mf 100v 10% mylar
C12	255-010	Capacitor, 1 pf 5% type QC
C13	290-521	Capacitor, variable, 5-25 pf GKU-25000
C14	255-470-1	Capacitor, 47 pf 300v 5% silver mica
C15	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
C16	290-522	Capacitor, variable, 2.8-10 pf GKU-10000
C17	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
C18	255-050	Capacitor, 5 pf 5% NPO disc
C19 C20	255-010 290-522	Capacitor, 1 pf 5% type QC Capacitor, variable, 2.8-10 pf GKU-10000
C21	255-030-1	Capacitor, Variable, 2.8-10 pl GRO-10000 Capacitor, 3 pf 5% NPO disc
C21	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
C23	255-100	Capacitor, 10 pf 5% NPO disc
C24	255-220	Capacitor, 22 pf 5% NPO disc
C25	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
C26	255-180	Capacitor, 18 pf 5% NPO disc
C27	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
C28	NOT USED	
C29	290-522	Capacitor, variable, 2.8-10 pf GKU-10000
C30	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
C31	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
C32	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
C33	230-100	Capacitor, variable, trimmer 8-8 pf JMC#52
C34	230-100	Capacitor, variable, trimmer 8-8 pf JMC#52
C35 C36	230-100 268-102	Capacitor, variable, trimmer 8-8 pf JMC#52 Capacitor, .001 mf 50v Z5U disc -20+80%
C36	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
D1	412-494	Diode, Germanium, 1N270
J1	550-084	Connector, Phono Jack, Molex 15-24-0503
J2	550-084	Connector, Phono Jack, Molex 15-24-0503
L01	NOT USED	,
L02	NOT USED	
L03	350-044	Inductor, $1.0 - 2$ uH w/shield can $#47271$
L04	330-007	Inductor, 1 uH Delevan #1840-10
L05	350-040	Inductor, 6 1/2 turn blue #144-06J12S
L06	350-040	Inductor, 6 1/2 turn blue #144-06J12S
L07	350-039	Inductor, 2 1/2 turn red #144-02J12S
L08 L09	350-039 350-039	Inductor, 2 1/2 turn red #144-02J12S Inductor, 2 1/2 turn red #144-02J12S
L10	350-039	Inductor, 8 turn 16 AWG 5/16 ID
L11	350-129	Inductor, 8 turn 16 AWG 5/16 ID
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Parts List 215 MHz SF Converter Board MARTI 800-212 07-26-93

Item	Marti No.	Description
L12 Q1		Inductor, 8 turn 16 AWG 5/16 ID
	440-245	Transistor, SRF3017
	420-090	Transistor, BFY90
	428-837	Transistor, BF966S 3SK88
R01	145-681	Resistor, 680 ohm 1/4 watt 5% metal film
R02	145-332-1	Resistor, 3.3k ohm 1/4 watt 2% RL07S332G
R03	NOT USED	
R04	NOT USED	
R05	NOT USED	
R06	NOT USED	
R07	145-392	Resistor, 3.9k ohm 1/4 watt 5% metal film
R08	145-331	Resistor, 330 ohm 1/4 watt 5% metal film
R09	145-104	Resistor, 100k ohm 1/4 watt 5% metal film
R10	145-470-C	
R11	145-103	Resistor, 10k ohm $1/4$ watt 5% metal film Resistor, 1k ohm $1/4$ watt 5% metal film
R12	145-102	
R13	145-470-C 145-272	Resistor, 2.7k ohm 1/4 watt 5% metal film
R14 R15	145-272	Resistor, 30 ohm 1/4 watt 5% metal film
R15	145-470-C	Resistor, 47 ohm 1/4 watt 5% carbon comp
R17	NOT USED	Regiscol, it dim it had be during
R18	145-223	Resistor, 22k ohm 1/4 watt 5% metal film
R19	145-271	Resistor, 270 ohm 1/4 watt 5% metal film
R20	145-474	Resistor, 470k ohm 1/4 watt 5% metal film
R21	145-682-1	Resistor, 6.8k ohm 1/4 watt 2% RL07S682G
R22	145-030-C	Resistor, 3.3 ohm 1/4 watt 5% carbon comp
X1	350-124	Mixer, SBL-1
Y2	520-040	Crystal socket, CS-109-07
	520-052A	Receiver Converter Oven
	145-562	Resistor, 5.6k ohm 1/4 watt 5% metal film
	550-165	Connector, 4 pin Molex Header
	800-212B	PC Board, Converter R Receiver

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DRAWING NO.

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R-15C FREQUENCY SYNTHESIZER

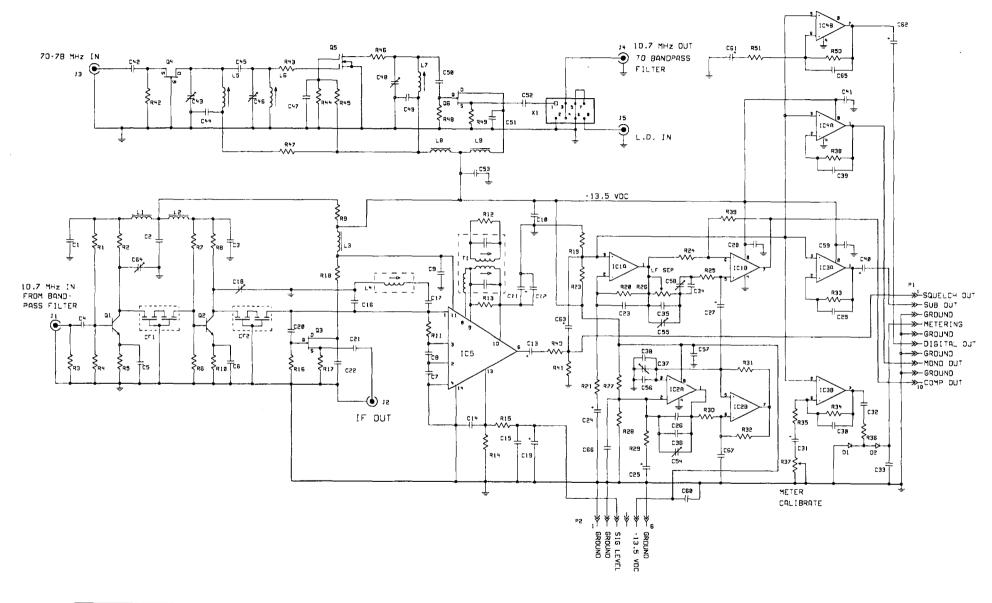
Parts List R-15C VCO/Synthesizer Board MARTI 800-291 07-26-93

Item	Marti No.	Description	n
C01	219-220	Capacitor,	electrolytic 22uF 25V radial
C02	299-470	Capacitor,	tantalum, 4.7 mf 16v ECS-F1CE47
C03	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C04	219-470	Capacitor,	electrolytic 47uF 16V radial
C05	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C06	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C07	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C08	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C09	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C10	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C11	290-523	Capacitor,	variable, 3.5-36 pf GXA-36000
C12	290-523	Capacitor,	variable, 3.5-36 pf GXA-36000
C13	SELECTED		_
C14	299-330	Capacitor,	tantalum 33uF 16V ECS-F1CE336K
C15	299-330	Capacitor,	tantalum 33uF 16V ECS-F1CE336K
C16	299-151	Capacitor,	tantalum, 15 mf 25v ECS-F1EE156
C17	219-220	Capacitor,	electrolytic 22uF 25V radial
C18	217-103	Capacitor,	.1 mf 100v 10% mylar
C19	217-103	Capacitor,	.1 mf 100v 10% mylar
C20	217-103	Capacitor,	.1 mf 100v 10% mylar
C21	299-220	Capacitor,	tantalum, 2.2 mf 25v ECS-F1EE22
C22	219-220	Capacitor,	electrolytic 22uF 25V radial
C23	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C24	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C25	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C26	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C27	270-330	Capacitor,	monolithic chip, 33 pf 50v 5%
C28	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C29	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5%
C30	270-102	Capacitor,	monolithic chip, 1000 pf 50v 5% monolithic chip, 47 pf 50v 5%
C31	270-470	Capacitor, Capacitor,	monolithic chip, 47 pf 50V 5%
C32 C33	270-101 Selected	capacitoi,	monoritine enip, 100 pr 300 3%
C34	270-407	Canacitor	monolithic chip, 4.7 pf 50v 5%
C35	270-407	Capacitor,	monolithic chip, 4.7 pf 50v 5%
C36	230-610	Capacitor,	
C37	270-102	Capacitor,	
C38	270-102	Capacitor,	
C39	270-102	Capacitor,	
C40	270-101	Capacitor,	. -
C41	270-470	Capacitor,	
C42	270-102	Capacitor,	
C43	270-102	Capacitor,	
C44	270-102	Capacitor,	
C45	270-102	Capacitor,	
C46	217-104	Capacitor,	.01 mf 50v GMV disc
C47	270-102	Capacitor,	
C48	270-220	Capacitor,	
C49	270-680	Capacitor,	
C50	270-101	Capacitor,	
C51	270-101	Capacitor,	monolithic chip, 100 pf 50v 5%

Item	Marti No.	Description
C52 C53 C54 D1	270-680 270-102 270-103 410-109	Capacitor, monolithic chip, 68 pf 50v 5% Capacitor, monolithic chip, 1000 pf 50v 5% Capacitor, monolithic chip 10000pF 10% XR7 Diode, SMV1201-16 hyper-abrupt tuning
D2 D3 D4	410-470 410-305 414-007	Diode, zener, 1N4732 4.7v Diode, MMBD101L chip Diode, Fagor 1N4007
IC1 IC2	400-317 405-532	Integrated Circuit, National LM317T Integrated Circuit, Signetics NE5532AN
IC3 IC4 IC5	401-678 400-503 400-145	Integrated Circuit, UPC 1678G (MMIC) Integrated Circuit, Fujitsu MB503PF Pre-Sc Integrated Circuit, MC145152-P2 (PLL)
L01 L02	330-012 330-012	Inductor, 15 uH #70-27 Inductor, 15 uH #70-27
L03 L04 L05	330-012 330-012 330-012	Inductor, 15 uH #70-27 Inductor, 15 uH #70-27 Inductor, 15 uH #70-27
L06 L07	330-023 330-012	Inductor, #146-04J08 Inductor, 15 uH #70-27
L08 L09 L10	330-022 330-022 330-022	Inductor, .1uH #90-01 Inductor, .1uH #90-01 Inductor, .1uH #90-01
M1 Q1	520-052AC part of M1	R-15C Synthesizer Oven
Q2 R01 R02	421-310 145-241-1 145-122-1	Transistor, Siliconix SST-310 Resistor, 240 ohm 1/4 watt 2% RL07S241G Resistor, 1.2k ohm 1/4 watt 2% RL07S122G
R03 R04 R05	145-182-1 145-331 145-331	Resistor, 1.8k ohm 1/4 watt 2% RLO7S182G Resistor, 330 ohm 1/4 watt 5% metal film Resistor, 330 ohm 1/4 watt 5% metal film
R06 R07	145-680 145-680	Resistor, 68 ohm 1/4 watt 5% metal film Resistor, 68 ohm 1/4 watt 5% metal film
R08 R09 R10	145-103 145-103 145-103	Resistor, 10k ohm 1/4 watt 5% metal film Resistor, 10k ohm 1/4 watt 5% metal film Resistor, 10k ohm 1/4 watt 5% metal film
R11 R12	145-103 145-683	Resistor, 10k ohm 1/4 watt 5% metal film Resistor, 68k ohm 1/4 watt 5% metal film
R13 R14 R15	145-273 145-102 145-102	Resistor, 27k ohm 1/4 watt 5% carbon film Resistor, 1k ohm 1/4 watt 5% metal film Resistor, 1k ohm 1/4 watt 5% metal film
R16 R17	145-473 145-393	Resistor, 47k ohm 1/4 watt 5% metal film Resistor, 39k ohm 1/4 watt 5% carbon film Resistor, 27k ohm 1/4 watt 5% carbon film
R18 R19 R20	145-273 185-103 NOT USED	Resistor, #263-10K ohm 1/8 watt 5% chip
R21 R22 R23	NOT USED 185-151 185-100	Resistor, #263-150 ohm 1/8 watt 5% chip Resistor, #263-10 ohm 1/8 watt 5% chip
R24 R25 R26	185-100 185-101 185-104	Resistor, #263-10 ohm 1/8 watt 5% chip Resistor, #263-100 ohm 1/8 watt 5% chip Resistor, #263-100K ohm 1/8 watt 5% chip

Parts List R-15C VCO/Synthesizer Board MARTI 800-291 07-26-93

Item	Marti No.	Description
S1 S2	185-151 185-100 185-100 185-131 185-103 530-060	Resistor, #263-1K ohm 1/8 watt 5% chip Resistor, #263-150 ohm 1/8 watt 5% chip Resistor, #263-10 ohm 1/8 watt 5% chip Resistor, #263-10 ohm 1/8 watt 5% chip Resistor, #263-130 ohm 1/8 watt 5% chip Resistor, #263-10K ohm 1/8 watt 5% chip Resistor, #263-10K ohm 1/8 watt 5% chip Switch, 8 position DIP 571-4356405 Switch, 8 position DIP 571-4356405 Crystal, 12.8 MHz, Fundamental AT cut, HC-Screw, 4-40 x 3/8" phillips pan head M/S n IC Socket, 8 pin E-CAM Connector, 8 pin Molex Housing #09-50-8080 IC Socket, 28 pin DIP #151-9028 Formed Cover, #50-CBS 2" x 2" less standof PC Board, VCO/Synthesizer IC Socket, 16 pin Crystal socket, CS-109-07 Connector, KSM S.FL2-R-SMT surface mount Heatsink, Thermalloy 6030B-TT Lockwasher, #4 internal tooth small patter Insulator, Sil-Pad K6-54 TO-220 .147 hole Shoulder Washer #7721-7PPS for TO-220 insu



MARTI ELECTRONICS CLEBURNE, TX 76033-0661

DRAWING NO.

8/6/93

800-293

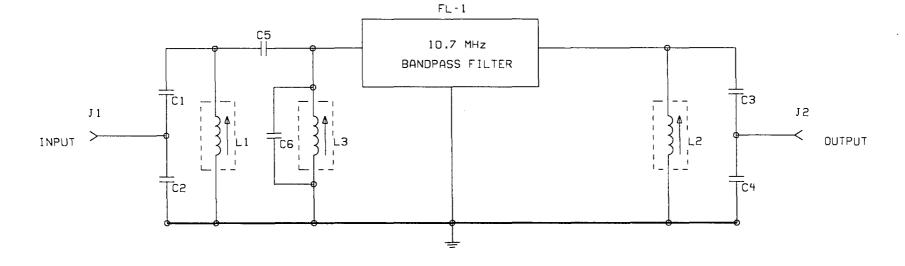
TITLE

2nd CONVERTER/IF AMP./DETECTOR

,Item	Marti No.	Description	n
. C01	217-104		.01 mf 50v GMV disc
€C02	217-104		.01 mf 50v GMV disc
C03	217-104		.01 mf 50v GMV disc
C04	217-104		.01 mf 50v GMV disc
C05	268-203		.02 mf 50v Z5U disc
C06	268-203		.02 mf 50v Z5U disc
C07	217-104		.01 mf 50v GMV disc
C08	217-104		.01 mf 50v GMV disc
C09	217-103		.1 mf 100v 10% mylar
C10	217-104		.01 mf 50v GMV disc
C11	219-221		electrolytic 220uF 25V radial
C12	217-103		.1 mf 100v 10% mylar
C13	219-102		electrolytic 1000uF 16V radial
C14	217-103	-	.1 mf 100v 10% mylar
C15	217-104	Capacitor,	
C16	256-131		130 pf 5% 50V NPO disc
C17	255-470C		47pF 5% 200V ceramic dipped
C18	290-525		variable trimmer 9-50 pF #24AA0
C19	299-470	Capacitor,	tantalum, 4.7 mf 16v ECS-F1CE47
C20	NOT USED	_	
C21	268-203	Capacitor,	.02 mf 50v Z5U disc
C22	268-203	Capacitor,	.02 mf 50v Z5U disc
C 23	295-390	Capacitor,	39 pf 5% NPO disc
C24	219-102	Capacitor,	electrolytic 1000uF 16V radial
,C25	219-102	Capacitor,	electrolytic 1000uF 16V radial
C26	215-301	Capacitor,	
C27	219-470	Capacitor,	electrolytic 47uF 16V radial
C28	217-103	Capacitor,	
C29	295-390	Capacitor,	39 pf 5% NPO disc
C30	295-390	Capacitor,	
C31	219-100	Capacitor,	electrolytic 10uF 25V radial
C32	217-103	Capacitor,	.1 mf 100v 10% mylar
C33	215-242		.0024 mfd 2.5% 100v polypropyle
C34	NOT USED	, .	
C35	255-030-1	Capacitor,	3 pf 5% NPO disc
C36	215-153	Capacitor,	.015 mfd 2.5% 100v polypropylen
C37	NOT USED	_ ,	
C38	255-470C	Capacitor.	47pF 5% 200V ceramic dipped
C39			39 pf 5% NPO disc
C40	219-102	Capacitor,	electrolytic 1000uF 16V radial
C41	217-103	Capacitor,	.1 mf 100v 10% mylar
C42	217-104		.01 mf 50v GMV disc
C43	290-521		variable, 5-25 pf GKU-25000
C44	268-203		.02 mf 50v Z5U disc
C45	270-010		monolithic chip, 1pF 50V 5%
C46	290-521		variable, 5-25 pf GKU-25000
C47	217-104		.01 mf 50v GMV disc
C48	290-521		variable, 5-25 pf GKU-25000
,C49	268-203		.02 mf 50v Z5U disc
C50	217-104		.01 mf 50v GMV disc
C51	268-203		.02 mf 50v Z5U disc
,C52	217-104		.01 mf 50v GMV disc

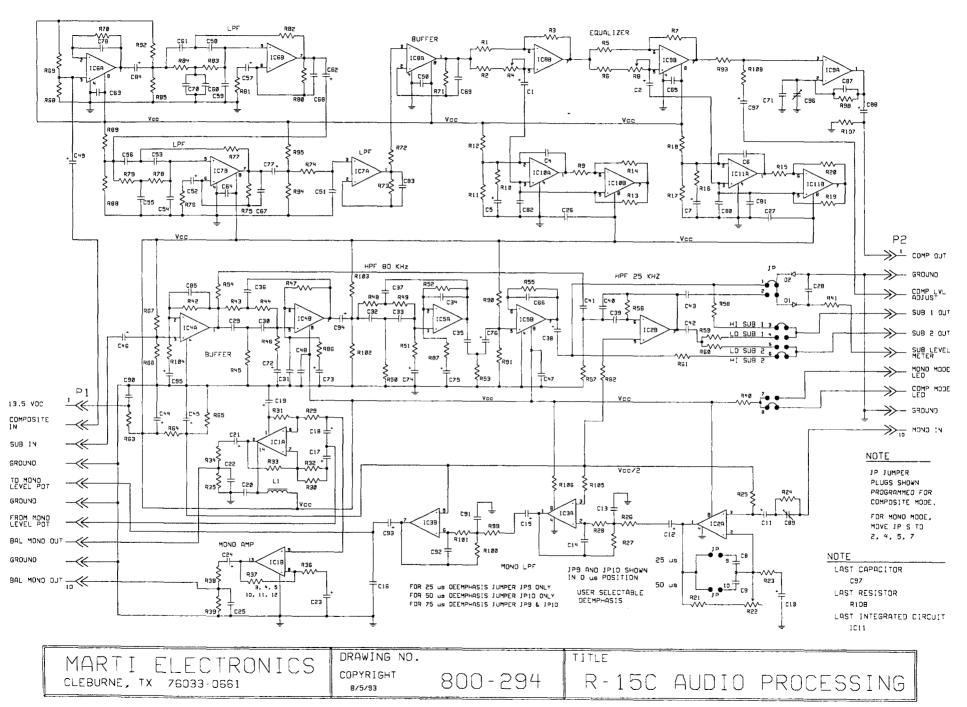
Item	Marti No.	Description
C53 C54	268-203 NOT USED	Capacitor, .02 mf 50v Z5U disc
C55 C56	290-522 NOT USED	Capacitor, variable, 2.8-10 pf GKU-10000
C57	217-103	Capacitor, .1 mf 100v 10% mylar
C58	290-525	Capacitor, variable trimmer 9-50 pF #24AA0
C59	217-103	Capacitor, .1 mf 100v 10% mylar
C60	270-102	Capacitor, monolithic chip, 1000 pf 50v 5%
C61	219-102	Capacitor, electrolytic 1000uF 16V radial
C62	219-102	Capacitor, electrolytic 1000uF 16V radial
C63	219-102	Capacitor, electrolytic 1000uF 16V radial
C64	290-525	Capacitor, variable trimmer 9-50 pF #24AA0
C65	295-390	Capacitor, 39 pf 5% NPO disc
C66	255-161	Capacitor, 160 pf 300v 5% silver mica
C67	270-270	Capacitor, monolithic chip, 27 pf 50v 5%
CF1	360-033	Filter, ceramic SFE10.7MX-A Murata-Erie
CF2	360-033	Filter, ceramic SFE10.7MX-A Murata-Erie
D1	412-494	Diode, Germanium, 1N270
D2	412-494	Diode, Germanium, 1N270
IC1	402-604	Integrated Circuit, Op-Amp OPA-2604AP
IC2	402-604	Integrated Circuit, Op-Amp OPA-2604AP
IC3	400-275	Integrated Circuit, OP-Amp OP275GP/OPA-260
IC4	400-275	Integrated Circuit, OP-Amp OP275GP/OPA-260
IC5	401-235	Integrated Circuit, Sanyo LA1235
L1	330-012	Inductor, 15 uH #70-27
L2	330-012	Inductor, 15 uH #70-27
L3	145-470	Resistor, 47 ohm 1/4 watt 5% metal film
L4	350-030	Inductor, 3.0 - 7 uH w/shield can #47271- Inductor, 6 1/2 turn blue #144-06J12S
L5 L6	350-040 350-040	Inductor, 6 1/2 turn blue #144-063125 Inductor, 6 1/2 turn blue #144-06J12S
L7	350-040	Inductor, 6 1/2 turn blue #144-06J12S
L8	330-040	Inductor, 15 uH #70-27
L9	330-012	Inductor, 15 uH #70-27
Q1	440-245	Transistor, SRF3017
Q2	440-245	Transistor, SRF3017
Q3	420-310	Transistor, Siliconix J-310 FET
Q4	420-310	Transistor, Siliconix J-310 FET
Q5	430-211	Transistor, MFE211
	420-310	Transistor, Siliconix J-310 FET
R01	145-332	Resistor, 3.3k ohm 1/4 watt 5% metal film
	145-431	Resistor, 430 ohm 1/4 watt 5% metal film
	145-102	Resistor, 1k ohm 1/4 watt 5% metal film
R04	145-222	Resistor, 2.2k ohm 1/4 watt 5% metal film
R05	145-471	Resistor, 470 ohm 1/4 watt 5% metal film
R06	145-222	Resistor, 2.2k ohm 1/4 watt 5% metal film
R07	145-332	Resistor, 3.3k ohm 1/4 watt 5% metal film
R08	145-431	Resistor, 430 ohm 1/4 watt 5% metal film
R09	145-470	Resistor, 47 ohm 1/4 watt 5% metal film
	145-471	Resistor, 470 ohm 1/4 watt 5% metal film
	145-431	Resistor, 430 ohm 1/4 watt 5% metal film
	145-222	Resistor, 2.2k ohm 1/4 watt 5% metal film
R13	145-472	Resistor, 4.7k ohm 1/4 watt 5% metal film

i Item	Marti No.	Description
R14	145-473	Resistor, 47k ohm 1/4 watt 5% metal film
R15	145-103	Resistor, 10k ohm 1/4 watt 5% metal film
R16	145-104-1	Resistor, 100k ohm 1/4 watt 2% RL07S104G
R17	145-101-C	Resistor, 100 ohm 1/4 watt 5% carbon comp
R18	NOT USED	Designation 26h abr 1/4 matt 28 DI 0702600
R19	145-363-1	Resistor, 36k ohm 1/4 watt 2% RL07S363G
R20	145-202-1	Resistor, 2k ohm 1/4 watt 2% RL07S202G
R21	145-102	Resistor, 1k ohm 1/4 watt 5% metal film
R22	NOT USED	Posiston 26k ohm 1/4 mott 28 DI 0752625
R23 R24	145-363-1	Resistor, 36k ohm 1/4 watt 2% RL07S363G
	145-472-1	Resistor, 4.7K ohm 1/4 watt 2% RL07S472G
R25	145-153-C	Resistor, 15K ohm 1/4 watt 5% carbon comp
R26	104-105	Potentiometer, 1meg ohm cermet trimmer ver
R27	145-184-1	Resistor, 180k ohm 1/4 watt 2% RL07S184G
R28	145-184-1	Resistor, 180k ohm 1/4 watt 2% RL07S184G
R29	145-202-1	Resistor, 2k ohm 1/4 watt 2% RL07S202G
R30	145-202-1	Resistor, 2k ohm 1/4 watt 2% RL07S202G
R31	145-202-1	Resistor, 2k ohm 1/4 watt 2% RL07S202G
R32	145-202-1	Resistor, 2k ohm 1/4 watt 2% RL07S202G
R33	145-103	Resistor, 10k ohm 1/4 watt 5% metal film
R34	145-103	Resistor, 10k ohm 1/4 watt 5% metal film
R35	145-101	Resistor, 100 ohm 1/4 watt 5% metal film
Ř36	145-122-1	Resistor, 1.2k ohm 1/4 watt 2% RLO7S122G
R37	101-502	Potentiometer, 5K ohm cermet RVG0911V513A
R38	145-103	Resistor, 10k ohm 1/4 watt 5% metal film
R39	145-472-1	Resistor, 4.7K ohm 1/4 watt 2% RL07S472G
R40 R41	145-470	Resistor, 47 ohm 1/4 watt 5% metal film
R41 R42	145-103 145-101-C	Resistor, 10k ohm 1/4 watt 5% metal film Resistor, 100 ohm 1/4 watt 5% carbon comp
R42	145-101-0	Resistor, 30 ohm 1/4 watt 5% metal film
R43	145-300	Resistor, 1k ohm 1/4 watt 2% RL07S102G
R45	145-102-1	Resistor, 360k ohm 1/4 watt 5% carbon film
R45 R46	145-304-1	Resistor, 30 ohm 1/4 watt 5% metal film
R47	145-470-C	Resistor, 47 ohm 1/4 watt 5% metal 111m
R47 R48	145-102-1	Resistor, 1k ohm 1/4 watt 2% RL07S102G
R40 R49	145-101-C	Resistor, 100 ohm 1/4 watt 5% carbon comp
R50	145-101-0	Resistor, 10k ohm 1/4 watt 5% carbon comp
R51	145-472	Resistor, 4.7k ohm 1/4 watt 5% metal film
T1	350-123	Detector, SNY-074-1919A (235SU1)
X1	350-124	Mixer, SBL-1
N.I.	550-068	IC Socket, 16 pin
	550-084	Connector, Phono Jack, Molex 15-24-0503
	550-070	IC Socket, 8 pin E-CAM
	550-070	Connector, KSM S.FL2-R-SMT surface mount
	800-293B	PC Board, IF Amp/FM Detector
	550-136	Connector, 6 pin Molex Header
	550-125	Connector, 5 pin Molex Header
		, - <u>F</u>



Parts List Filter, assembly 250 KHz MARTI 800-207 07-26-93

Item	Marti No.	Description
C1 C2 C3 C4 C5	255-161 256-151 255-241 255-241 255-470C	Capacitor, 160 pf 300v 5% silver mica Capacitor, 150 pf 5% NPO disc Capacitor, 240 pf 300v 5% silver mica Capacitor, 240 pf 300v 5% silver mica Capacitor, 47pF 5% 200V ceramic dipped
C6 FL1 J1 J2 L1	256-131 360-037 550-084 550-084 350-025	Capacitor, 130 pf 5% 50V NPO disc Filter, LC 250 KHz Model 1562 Connector, Phono Jack, Molex 15-24-0503 Connector, Phono Jack, Molex 15-24-0503 Inductor, 1.5 - 3 uH w/shield can #47271-0
L2 L3	350-025 350-025 800-207B	Inductor, 1.5 - 3 uH w/shield can #47271-0 Inductor, 1.5 - 3 uH w/shield can #47271-0 PC Board, IF Filter R Receiver



C01 219-102 Capacitor, electrolytic 1000uF 16V radial C02 219-102 Capacitor, electrolytic 1000uF 16V radial C03 NOT USED C04 215-622 Capacitor, .0062 mfd 2.5% 100V polypropyle C05 219-102 Capacitor, electrolytic 1000uF 16V radial C06 215-682 Capacitor, .0068uF 2.5% 100V polypropylene C07 219-102 Capacitor, electrolytic 1000uF 16V radial C08 215-202 Capacitor, .002 mfd 2.5% 100V polypropylene C09 215-102 Capacitor, .001 mfd 2.5% 100V polypropylene C10 219-221 Capacitor, electrolytic 220uF 25V radial C11 219-220 Capacitor, electrolytic 220uF 25V radial C12 219-100 Capacitor, electrolytic 10uF 25V radial C13 215-301 Capacitor, electrolytic 10uF 25V radial C14 256-151 Capacitor, 150 pf 5% NPO disc C15 219-220 Capacitor, electrolytic 22uF 25V radial C16 253-471 Capacitor, electrolytic 22uF 25V radial C17 219-220 Capacitor, electrolytic 22uF 25V radial C18 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, electrolytic 22uF 25V radial C21 219-221 Capacitor, electrolytic 22uF 25V radial C22 253-471 Capacitor, electrolytic 22uF 25V radial C22 253-471 Capacitor, electrolytic 22uF 25V radial C24 219-221 Capacitor, electrolytic 10uF 25V radial C25 253-471 Capacitor, electrolytic 10uF 25V radial C26 217-103 Capacitor, electrolytic 10uF 25V radial C27 217-103 Capacitor, 1 mf 100v 10% mylar C28 215-242 Capacitor, 1 mf 100v 10% mylar C29 255-271C Capacitor, .0024 mfd 2.5% 100v polypropyle C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-271C Capacitor, 270pF 5% 200V ceramic dipped C32 255-271C Capacitor, 270pF 5% 200V ceramic dipped C32 255-271C Capacitor, 270pF 5% 200V ceramic dipped	'Item	Marti No.	Description	n
CO2 219-102 Capacitor, electrolytic 1000ur 16v radial CO4 215-622 Capacitor, .0062 mfd 2.5% 100v polypropyle CO5 219-102 Capacitor, electrolytic 1000uF 16V radial CO6 215-682 Capacitor, .0068uF 2.5% 100v polypropylene CO7 219-102 Capacitor, electrolytic 1000uF 16V radial CO8 215-202 Capacitor, .002 mfd 2.5% 100v polypropylene CO9 215-102 Capacitor, .001 mfd 2.5% 100v polypropylene CO9 215-102 Capacitor, electrolytic 22uF 25V radial CO1 219-221 Capacitor, electrolytic 22uF 25V radial CO1 219-220 Capacitor, electrolytic 22uF 25V radial CO1 219-200 Capacitor, electrolytic 10uF 25V radial CO1 215-301 Capacitor, 200 pf 2.5% 100v polypropylene CO1 219-220 Capacitor, electrolytic 22uF 25V radial CO1 219-221 Capacitor, electrolytic 22uF 25V radial CO2 217-103 Capacitor, electrolytic 22uF 25V radial CO2 217-103 Capacitor, electrolytic 22uF 25V radial CO2 219-221 Capacitor, electrolytic 22uF 25V radial CO2 219-221 Capacitor, electrolytic 22uF 25V radial CO2 217-103 Capacitor, electrolytic 22uF 25V radial CO2 253-471 Capacitor, electrolytic 22uF 25V radial CO2 253-471 Capacitor, electrolytic 22uF 25V radial CO2 255-271C Capacitor, 270F 5% 200V ceramic dipped CO2 255-271C Capacitor, 270F 5% 200V ceramic dipped CO2 255-270 CAPACITOR CAPACITOR CAPACITOR CAPACITOR C				
C04 215-622 Capacitor, .0062 mfd 2.5% 100v polypropyler C05 219-102 Capacitor, electrolytic 1000uF 16V radial C06 215-682 Capacitor, .0068uF 2.5% 100V polypropylene C07 219-102 Capacitor, electrolytic 1000uF 16V radial C08 215-202 Capacitor, .002 mfd 2.5% 100v polypropylene C09 215-102 Capacitor, .001 mfd 2.5% 100v polypropylene C10 219-221 Capacitor, electrolytic 220uF 25V radial C11 219-220 Capacitor, electrolytic 22uF 25V radial C12 219-100 Capacitor, electrolytic 10uF 25V radial C13 215-301 Capacitor, 300 pf 2.5% 100v polypropylene C14 256-151 Capacitor, 150 pf 5% NPO disc C15 219-220 Capacitor, electrolytic 22uF 25V radial C16 253-471 Capacitor, electrolytic 22uF 25V radial C18 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, electrolytic 22uF 25V radial C21 219-221 Capacitor, electrolytic 22uF 25V radial C22 253-471 Capacitor, electrolytic 22uF 25V radial C24 219-221 Capacitor, electrolytic 22uF 25V radial C25 253-471 Capacitor, electrolytic 20uF 25V radial C25 253-471 Capacitor, 1 mf 100v 10% mylar C26 217-103 Capacitor, .1 mf 100v 10% mylar C27 217-103 Capacitor, .1 mf 100v 10% mylar C27 217-103 Capacitor, .1 mf 100v 10% mylar C28 215-242 Capacitor, .70pF 5% 200V ceramic dipped C31 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc	CU2		Capacitor,	electrolytic 1000uF 16V radial
C05 219-102 Capacitor, electrolytic 1000uF 16V radial C06 215-682 Capacitor, .0068uF 2.5% 100V polypropylene C07 219-102 Capacitor, electrolytic 1000uF 16V radial C08 215-202 Capacitor, .002 mfd 2.5% 100V polypropylene C09 215-102 Capacitor, .001 mfd 2.5% 100V polypropylene C10 219-221 Capacitor, electrolytic 22uF 25V radial C11 219-220 Capacitor, electrolytic 22uF 25V radial C12 219-100 Capacitor, electrolytic 10uF 25V radial C13 215-301 Capacitor, 300 pf 2.5% 100V polypropylene C14 256-151 Capacitor, 150 pf 5% NPO disc C15 219-220 Capacitor, electrolytic 22uF 25V radial C16 253-471 Capacitor, 470 pf 50V 10% Y5P disc C17 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, electrolytic 22uF 25V radial C21 219-221 Capacitor, electrolytic 22uF 25V radial C22 253-471 Capacitor, electrolytic 220uF 25V radial C24 219-221 Capacitor, electrolytic 10uF 25V radial C25 253-471 Capacitor, 1 mf 100V 10% mylar C26 217-103 Capacitor, 1 mf 100V 10% mylar C27 217-103 Capacitor, .1 mf 100V 10% mylar C28 215-242 Capacitor, .0024 mfd 2.5% 100V polypropyle C29 255-271C Capacitor, .270pF 5% 200V ceramic dipped C31 255-270 Capacitor, .270pF 5			Canaditar	0062 mfd 2 5% 100g polypropylo
C06 215-682 Capacitor, .0068uF 2.5% 100V polypropylene C07 219-102 Capacitor, electrolytic 1000uF 16V radial C08 215-202 Capacitor, .002 mfd 2.5% 100V polypropylene C09 215-102 Capacitor, .001 mfd 2.5% 100V polypropylene C10 219-221 Capacitor, electrolytic 220uF 25V radial C11 219-220 Capacitor, electrolytic 22uF 25V radial C12 219-100 Capacitor, electrolytic 10uF 25V radial C13 215-301 Capacitor, 300 pf 2.5% 100V polypropylene C14 256-151 Capacitor, 150 pf 5% NPO disc C15 219-220 Capacitor, electrolytic 22uF 25V radial C16 253-471 Capacitor, 470 pf 50V 10% Y5P disc C17 219-220 Capacitor, electrolytic 22uF 25V radial C18 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, electrolytic 22uF 25V radial C21 219-221 Capacitor, electrolytic 220uF 25V radial C22 253-471 Capacitor, electrolytic 10uF 25V radial C24 219-221 Capacitor, electrolytic 10uF 25V radial C25 253-471 Capacitor, electrolytic 10uF 25V radial C25 253-471 Capacitor, electrolytic 220uF 25V radial C25 253-471 Capacitor, electrolytic 20uF 25V radial C25 253-471 Capacitor, 1 mf 100V 10% mylar C27 217-103 Capacitor, 1 mf 100V 10% mylar C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 270pF 5% NPO disc				
C07 219-102 Capacitor, electrolytic 1000uF 16V radial C08 215-202 Capacitor, .002 mfd 2.5% 100v polypropylem C09 215-102 Capacitor, .001 mfd 2.5% 100v polypropylem C10 219-221 Capacitor, electrolytic 220uF 25V radial C11 219-220 Capacitor, electrolytic 22uF 25V radial C12 219-100 Capacitor, electrolytic 10uF 25V radial C13 215-301 Capacitor, 300 pf 2.5% 100v polypropyleme C14 256-151 Capacitor, 150 pf 5% NPO disc C15 219-220 Capacitor, electrolytic 22uF 25V radial C16 253-471 Capacitor, 470 pf 50v 10% Y5P disc C17 219-220 Capacitor, electrolytic 22uF 25V radial C18 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, .1 mf 100v 10% mylar C21 219-221 Capacitor, electrolytic 220uF 25V radial C22 253-471 Capacitor, electrolytic 20uF 25V radial C24 219-221 Capacitor, electrolytic 10uF 25V radial C24 219-221 Capacitor, electrolytic 20uF 25V radial C25 253-471 Capacitor, 1 mf 100v 10% mylar C27 217-103 Capacitor, .1 mf 100v 10% mylar C29 215-242 Capacitor, .0024 mfd 2.5% 100v polypropyle C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc				
C08			•	
C09 215-102 Capacitor, .001 mfd 2.5% 100v polypropylem C10 219-221 Capacitor, electrolytic 220uF 25V radial C11 219-220 Capacitor, electrolytic 22uF 25V radial C12 219-100 Capacitor, electrolytic 10uF 25V radial C13 215-301 Capacitor, 300 pf 2.5% 100v polypropyleme C14 256-151 Capacitor, 150 pf 5% NPO disc C15 219-220 Capacitor, electrolytic 22uF 25V radial C16 253-471 Capacitor, 470 pf 50v 10% Y5P disc C17 219-220 Capacitor, electrolytic 22uF 25V radial C18 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, electrolytic 22uF 25V radial C21 219-221 Capacitor, electrolytic 220uF 25V radial C22 253-471 Capacitor, 470 pf 50v 10% Y5P disc C23 219-100 Capacitor, electrolytic 10uF 25V radial C24 219-221 Capacitor, electrolytic 220uF 25V radial C25 253-471 Capacitor, electrolytic 220uF 25V radial C25 217-103 Capacitor, electrolytic 220uF 25V radial C25 217-103 Capacitor, 1 mf 100v 10% mylar C27 217-103 Capacitor, .1 mf 100v 10% mylar C27 217-103 Capacitor, .1 mf 100v 10% mylar C27 217-103 Capacitor, .1 mf 100v 10% mylar C29 255-271C Capacitor, .0024 mfd 2.5% 100v polypropyle C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc			-	
C10 219-221 Capacitor, electrolytic 220uF 25V radial C11 219-220 Capacitor, electrolytic 22uF 25V radial C12 219-100 Capacitor, electrolytic 10uF 25V radial C13 215-301 Capacitor, 300 pf 2.5% 100v polypropylene C14 256-151 Capacitor, 150 pf 5% NPO disc C15 219-220 Capacitor, electrolytic 22uF 25V radial C16 253-471 Capacitor, 470 pf 50v 10% Y5P disc C17 219-220 Capacitor, electrolytic 22uF 25V radial C18 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, electrolytic 22uF 25V radial C21 219-221 Capacitor, electrolytic 220uF 25V radial C22 253-471 Capacitor, 470 pf 50v 10% Y5P disc C23 219-100 Capacitor, electrolytic 10uF 25V radial C24 219-221 Capacitor, electrolytic 220uF 25V radial C25 253-471 Capacitor, electrolytic 220uF 25V radial C26 217-103 Capacitor, electrolytic 220uF 25V radial C27 217-103 Capacitor, 1 mf 100v 10% mylar C28 215-242 Capacitor, .1 mf 100v 10% mylar C29 255-271C Capacitor, .0024 mfd 2.5% 100v polypropyle C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc				
C12 219-100 Capacitor, electrolytic 10uF 25V radial C13 215-301 Capacitor, 300 pf 2.5% 100v polypropylene C14 256-151 Capacitor, 150 pf 5% NPO disc C15 219-220 Capacitor, electrolytic 22uF 25V radial C16 253-471 Capacitor, 470 pf 50v 10% Y5P disc C17 219-220 Capacitor, electrolytic 22uF 25V radial C18 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, 1 mf 100v 10% mylar C21 219-221 Capacitor, electrolytic 220uF 25V radial C22 253-471 Capacitor, 470 pf 50v 10% Y5P disc C23 219-100 Capacitor, electrolytic 10uF 25V radial C24 219-221 Capacitor, electrolytic 220uF 25V radial C25 253-471 Capacitor, electrolytic 220uF 25V radial C26 217-103 Capacitor, 1 mf 100v 10% mylar C27 217-103 Capacitor, 1 mf 100v 10% mylar C28 215-242 Capacitor, .0024 mfd 2.5% 100v polypropyle C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc			-	
C13	C11	219-220	Capacitor,	electrolytic 22uF 25V radial
C14 256-151 Capacitor, 150 pf 5% NPO disc C15 219-220 Capacitor, electrolytic 22uF 25V radial C16 253-471 Capacitor, 470 pf 50v 10% Y5P disc C17 219-220 Capacitor, electrolytic 22uF 25V radial C18 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, electrolytic 22uF 25V radial C21 219-221 Capacitor, electrolytic 220uF 25V radial C22 253-471 Capacitor, 470 pf 50v 10% Y5P disc C23 219-100 Capacitor, electrolytic 10uF 25V radial C24 219-221 Capacitor, electrolytic 220uF 25V radial C25 253-471 Capacitor, electrolytic 220uF 25V radial C26 217-103 Capacitor, electrolytic 220uF 25V radial C27 217-103 Capacitor, 1 mf 100v 10% mylar C28 215-242 Capacitor, .1 mf 100v 10% mylar C28 215-242 Capacitor, .0024 mfd 2.5% 100v polypropyle C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc	C12	219-100	Capacitor,	
C15 219-220 Capacitor, electrolytic 22uF 25V radial C16 253-471 Capacitor, 470 pf 50v 10% Y5P disc C17 219-220 Capacitor, electrolytic 22uF 25V radial C18 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, electrolytic 22uF 25V radial C21 219-221 Capacitor, electrolytic 220uF 25V radial C22 253-471 Capacitor, 470 pf 50v 10% Y5P disc C23 219-100 Capacitor, electrolytic 10uF 25V radial C24 219-221 Capacitor, electrolytic 220uF 25V radial C25 253-471 Capacitor, electrolytic 220uF 25V radial C25 253-471 Capacitor, electrolytic 220uF 25V radial C25 253-471 Capacitor, 470 pf 50v 10% Y5P disc C26 217-103 Capacitor, 1 mf 100v 10% mylar C27 217-103 Capacitor, .1 mf 100v 10% mylar C28 215-242 Capacitor, .0024 mfd 2.5% 100v polypropyle C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc				
C16 253-471 Capacitor, 470 pf 50v 10% Y5P disc C17 219-220 Capacitor, electrolytic 22uF 25V radial C18 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, 1 mf 100v 10% mylar C21 219-221 Capacitor, electrolytic 220uF 25V radial C22 253-471 Capacitor, 470 pf 50v 10% Y5P disc C23 219-100 Capacitor, electrolytic 10uF 25V radial C24 219-221 Capacitor, electrolytic 220uF 25V radial C25 253-471 Capacitor, electrolytic 220uF 25V radial C26 217-103 Capacitor, 470 pf 50v 10% Y5P disc C26 217-103 Capacitor, 1 mf 100v 10% mylar C27 217-103 Capacitor, .1 mf 100v 10% mylar C28 215-242 Capacitor, .0024 mfd 2.5% 100v polypropyle C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc				
C17 219-220 Capacitor, electrolytic 22uF 25V radial C18 219-220 Capacitor, electrolytic 22uF 25V radial C19 219-220 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, 1 mf 100v 10% mylar C21 219-221 Capacitor, electrolytic 220uF 25V radial C22 253-471 Capacitor, 470 pf 50v 10% Y5P disc C23 219-100 Capacitor, electrolytic 10uF 25V radial C24 219-221 Capacitor, electrolytic 220uF 25V radial C25 253-471 Capacitor, electrolytic 220uF 25V radial C26 217-103 Capacitor, 470 pf 50v 10% Y5P disc C27 217-103 Capacitor, .1 mf 100v 10% mylar C27 217-103 Capacitor, .1 mf 100v 10% mylar C28 215-242 Capacitor, .0024 mfd 2.5% 100v polypropyle C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc			-	•
C18				
C19 219-220 Capacitor, electrolytic 22uF 25V radial C20 217-103 Capacitor, .1 mf 100v 10% mylar C21 219-221 Capacitor, electrolytic 220uF 25V radial C22 253-471 Capacitor, 470 pf 50v 10% Y5P disc C23 219-100 Capacitor, electrolytic 10uF 25V radial C24 219-221 Capacitor, electrolytic 220uF 25V radial C25 253-471 Capacitor, 470 pf 50v 10% Y5P disc C26 217-103 Capacitor, .1 mf 100v 10% mylar C27 217-103 Capacitor, .1 mf 100v 10% mylar C28 215-242 Capacitor, .0024 mfd 2.5% 100v polypropyle C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-270 Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc			•	- · · · · · · · · · · · · · · · · · · ·
C20 217-103 Capacitor, .1 mf 100v 10% mylar C21 219-221 Capacitor, electrolytic 220uF 25V radial C22 253-471 Capacitor, 470 pf 50v 10% Y5P disc C23 219-100 Capacitor, electrolytic 10uF 25V radial C24 219-221 Capacitor, electrolytic 220uF 25V radial C25 253-471 Capacitor, 470 pf 50v 10% Y5P disc C26 217-103 Capacitor, .1 mf 100v 10% mylar C27 217-103 Capacitor, .1 mf 100v 10% mylar C28 215-242 Capacitor, .0024 mfd 2.5% 100v polypropyle C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc				
C21 219-221 Capacitor, electrolytic 220uF 25V radial C22 253-471 Capacitor, 470 pf 50v 10% Y5P disc C23 219-100 Capacitor, electrolytic 10uF 25V radial C24 219-221 Capacitor, electrolytic 220uF 25V radial C25 253-471 Capacitor, 470 pf 50v 10% Y5P disc C26 217-103 Capacitor, .1 mf 100v 10% mylar C27 217-103 Capacitor, .1 mf 100v 10% mylar C28 215-242 Capacitor, .0024 mfd 2.5% 100v polypropyle C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-270 Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc			•	-
C22 253-471 Capacitor, 470 pf 50v 10% Y5P disc C23 219-100 Capacitor, electrolytic 10uF 25V radial C24 219-221 Capacitor, electrolytic 220uF 25V radial C25 253-471 Capacitor, 470 pf 50v 10% Y5P disc C26 217-103 Capacitor, .1 mf 100v 10% mylar C27 217-103 Capacitor, .1 mf 100v 10% mylar C28 215-242 Capacitor, .0024 mfd 2.5% 100v polypropyle C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-270 Capacitor, 27 pf 5% NPO disc				
C23 219-100 Capacitor, electrolytic 10uF 25V radial C24 219-221 Capacitor, electrolytic 220uF 25V radial C25 253-471 Capacitor, 470 pf 50v 10% Y5P disc C26 217-103 Capacitor, .1 mf 100v 10% mylar C27 217-103 Capacitor, .1 mf 100v 10% mylar C28 215-242 Capacitor, .0024 mfd 2.5% 100v polypropyle C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-270 Capacitor, 27 pf 5% NPO disc				
C24 219-221 Capacitor, electrolytic 220uF 25V radial C25 253-471 Capacitor, 470 pf 50v 10% Y5P disc C26 217-103 Capacitor, .1 mf 100v 10% mylar C27 217-103 Capacitor, .1 mf 100v 10% mylar C28 215-242 Capacitor, .0024 mfd 2.5% 100v polypropyle C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc			-	•
C25 253-471 Capacitor, 470 pf 50v 10% Y5P disc C26 217-103 Capacitor, .1 mf 100v 10% mylar C27 217-103 Capacitor, .1 mf 100v 10% mylar C28 215-242 Capacitor, .0024 mfd 2.5% 100v polypropyle C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc			-	
C26 217-103 Capacitor, .1 mf 100v 10% mylar C27 217-103 Capacitor, .1 mf 100v 10% mylar C28 215-242 Capacitor, .0024 mfd 2.5% 100v polypropyle C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc			•	
C27 217-103 Capacitor, .1 mf 100v 10% mylar C28 215-242 Capacitor, .0024 mfd 2.5% 100v polypropyle C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc			-	-
C28 215-242 Capacitor, .0024 mfd 2.5% 100v polypropyle C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc			-	-
C29 255-271C Capacitor, 270pF 5% 200V ceramic dipped C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc			-	
C30 255-271C Capacitor, 270pF 5% 200V ceramic dipped C31 255-270 Capacitor, 27 pf 5% NPO disc			-	
• • • • • • • • • • • • • • • • • • • •		255-271C	•	
C32 255-271C Canacitor 270nF 5% 200V coramic dinned	C31	255-270	Capacitor,	27 pf 5% NPO disc
	C32	255-271C	Capacitor,	
C33 255-271C Capacitor, 270pF 5% 200V ceramic dipped	C33	255-271C		
C34 255-220 Capacitor, 22 pf 5% NPO disc				
C35 255-241 Capacitor, 240 pf 300v 5% silver mica			Capacitor,	240 pf 300v 5% silver mica
C36 215-701 Capacitor, 700 pf 2.5% 100V polypropylene				
C37 255-271C Capacitor, 270pF 5% 200V ceramic dipped				
C38 219-470 Capacitor, electrolytic 47uF 16V radial				
C39 215-701 Capacitor, 700 pf 2.5% 100V polypropylene C40 255-220 Capacitor, 22 pf 5% NPO disc				
C40 255-220 Capacitor, 22 pf 5% NPO disc C41 215-701 Capacitor, 700 pf 2.5% 100V polypropylene				
C42 226-104 Capacitor, .1 mf 100v 10% film				
C43 215-392 Capacitor, .0039 mfd 2.5% 100v polypropyle				
C44 219-221 Capacitor, electrolytic 220uF 25V radial				
C45 219-221 Capacitor, electrolytic 220uF 25V radial				
C46 219-470 Capacitor, electrolytic 47uF 16V radial				
C47 217-103 Capacitor, .1 mf 100v 10% mylar				
C48 217-103 Capacitor, .1 mf 100v 10% mylar			Capacitor,	.1 mf 100v 10% mylar
C49 219-102 Capacitor, electrolytic 1000uF 16V radial	C49			
*C50 217-103 Capacitor, .1 mf 100v 10% mylar	' C50			
C51 215-102 Capacitor, .001 mfd 2.5% 100v polypropyler				
. C52 219-102 Capacitor, electrolytic 1000uF 16V radial	.C52	219-102	Capacitor,	electrolytic 1000uF 16V radial

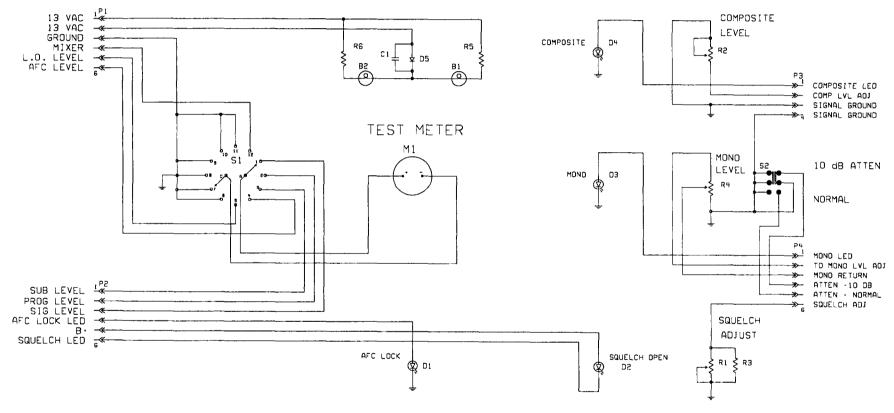
Item	Marti No.	Description
C53	255-750	Capacitor, 75 pf 5% NPO disc
C53	255-750 255 - 270	Capacitor, 75 pr 5% NPO disc
C55	255-271C	Capacitor, 27 pr 5% NFO disc
C56	256 - 151	Capacitor, 150 pf 5% NPO disc
C57	219-102	Capacitor, electrolytic 1000uF 16V radial
C58	255-750	Capacitor, 75 pf 5% NPO disc
C59	255-390C	Capacitor, 39pF 5% 200V ceramic dipped
C60	256-151	Capacitor, 150 pf 5% NPO disc
C61	256-131	Capacitor, 130 pf 5% 50V NPO disc
C62	219-102	Capacitor, electrolytic 1000uF 16V radial
C63	217-103	Capacitor, .1 mf 100v 10% mylar
C64	217-103	Capacitor, .1 mf 100v 10% mylar
C65	217-103	Capacitor, .1 mf 100v 10% mylar
C66	255-390C	Capacitor, 39pF 5% 200V ceramic dipped
C67	255-390C	Capacitor, 39pF 5% 200V ceramic dipped
C68	255-470C	Capacitor, 47pF 5% 200V ceramic dipped
C69	255-390C	Capacitor, 39pF 5% 200V ceramic dipped
C70	255-470C	Capacitor, 47pF 5% 200V ceramic dipped
C71	256-680C	Capacitor, 68pF 5% 200V ceramic dipped
C72	219-470	Capacitor, electrolytic 47uF 16V radial
C73	219-470	Capacitor, electrolytic 47uF 16V radial
C74	219-470	Capacitor, electrolytic 47uF 16V radial
C75	219-470	Capacitor, electrolytic 47uF 16V radial
C76	219-470	Capacitor, electrolytic 47uF 16V radial
C77	219-102	Capacitor, electrolytic 1000uF 16V radial
C78	255-270	Capacitor, 27 pf 5% NPO disc
C79	NOT USED	
C80	255-361	Capacitor, 360 pf 300v 5% silver mica
C81	215-102	Capacitor, .001 mfd 2.5% 100v polypropylen
C82	255-361	Capacitor, 360 pf 300v 5% silver mica
C83	255-161	Capacitor, 160 pf 300v 5% silver mica
C84	219-102	Capacitor, electrolytic 1000uF 16V radial
C85	256-680C	Capacitor, 68pF 5% 200V ceramic dipped
C86	NOT USED	
C87	255-390C	Capacitor, 39pF 5% 200V ceramic dipped
C88	219-102	Capacitor, electrolytic 1000uF 16V radial
C89	290-525	Capacitor, variable trimmer 9-50 pF #24AA0
C90	270-102	Capacitor, monolithic chip, 1000 pf 50v 5%
C91	215-202	Capacitor, .002 mfd 2.5% 100v polypropylen
C92	256-151	Capacitor, 150 pf 5% NPO disc
C93	219-220	Capacitor, electrolytic 22uF 25V radial
C94	219-470	Capacitor, electrolytic 47uF 16V radial
C95	219-470	Capacitor, electrolytic 47uF 16V radial
C96	290-525	Capacitor, variable trimmer 9-50 pF #24AA0
C97	219-102	Capacitor, electrolytic 1000uF 16V radial
D01	412-494	Diode, Germanium, 1N270
D02	412-494	Diode, Germanium, 1N270
ICO1	401-877	Integrated Circuit, National LM1877N-9
ICO2	400-275	Integrated Circuit, OP-Amp OP275GP/OPA-260
ICO3	400-275	Integrated Circuit, OP-Amp OP275GP/OPA-260
ICO4	400-275	Integrated Circuit, OP-Amp OP275GP/OPA-260
IC05	400-275	Integrated Circuit, OP-Amp OP275GP/OPA-260

Item	Marti No.	Description
, IC06	400-275	Integrated Circuit, OP-Amp OP275GP/OPA-260
IC07	400-275	Integrated Circuit, OP-Amp OP275GP/OPA-260
IC08	400-275	Integrated Circuit, OP-Amp OP275GP/OPA-260
IC09	400-275	Integrated Circuit, OP-Amp OP275GP/OPA-260
IC10	400-275	Integrated Circuit, OP-Amp OP275GP/OPA-260
IC11	400-275	Integrated Circuit, OP-Amp OP275GP/OPA-260
L01	330-012	Inductor, 15 uH #70-27
R001	145-472-1	Resistor, 4.7K ohm 1/4 watt 2% RL07S472G
R002	145-202-1	Resistor, 2k ohm 1/4 watt 2% RL07S202G
R003	145-472 - 1	Resistor, 4.7K ohm 1/4 watt 2% RL07S472G
R004	104-203	Potentiometer, 20K ohm cermet trimmer vert
R005	145-472-1	Resistor, 4.7K ohm 1/4 watt 2% RL07S472G
R006	145-102-1	Resistor, 1k ohm 1/4 watt 2% RL07S102G
R007	145-472-1	Resistor, 4.7K ohm 1/4 watt 2% RL07S472G
R008	104-502	Potentiometer, 5K ohm cermet trimmer verti
R009	145-202-1	Resistor, 2k ohm 1/4 watt 2% RL07S202G
R010	145-202-1	Resistor, 2k ohm 1/4 watt 2% RL07S202G
R011	145-104	Resistor, 100k ohm 1/4 watt 5% metal film
R012	145-104	Resistor, 100k ohm 1/4 watt 5% metal film
R013	145-202-1	Resistor, 2k ohm 1/4 watt 2% RL07S202G
R014	145-202-1	Resistor, 2k ohm 1/4 watt 2% RL07S202G
R015	145-202-1	Resistor, 2k ohm 1/4 watt 2% RL07S202G
R016	145-202-1	Resistor, 2k ohm 1/4 watt 2% RL07S202G
R017	145-104	Resistor, 100k ohm 1/4 watt 5% metal film
R018	145-104	Resistor, 100k ohm 1/4 watt 5% metal film
R019	145-202-1	Resistor, 2k ohm 1/4 watt 2% RL07S202G
R020	145-202-1	Resistor, 2k ohm 1/4 watt 2% RL07S202G
R021	145-223	Resistor, 22k ohm 1/4 watt 5% metal film
R022	105-502	Potentiometer, 5K ohm cermet trimmer 1 tur
R023	145-102	Resistor, 1k ohm 1/4 watt 5% metal film
R024	145-184-1	Resistor, 180k ohm 1/4 watt 2% RL07S184G
R025	145-104	Resistor, 100k ohm 1/4 watt 5% metal film
R026	145-473-1	Resistor, 47k ohm 1/4 watt 2% RLO7S473G
R027	145-473-1	Resistor, 47k ohm 1/4 watt 2% RLO7S473G
R028	145-223-1	Resistor, 22k ohm 1/4 watt 2% RL07S223G
R029	145-104-1	Resistor, 100k ohm 1/4 watt 2% RL07S104G
	145-104-1	Resistor, 100k ohm 1/4 watt 2% RL07S104G
	145-332-1	Resistor, 3.3k ohm 1/4 watt 2% RL07S332G
	145-223-1	Resistor, 22k ohm 1/4 watt 2% RL07S223G
	145-104-1	Resistor, 100k ohm 1/4 watt 2% RL07S104G
	145-220-1	Resistor, 22 ohm 1/4 watt 2% RL07S220G
	145-122-1	Resistor, 1.2k ohm 1/4 watt 2% RLO7S122G
	145-223-1	Resistor, 22k ohm 1/4 watt 2% RL07S223G
	145-104-1	Resistor, 100k ohm 1/4 watt 2% RL07S104G
	145-220-1	Resistor, 22 ohm 1/4 watt 2% RL07S220G
	145-122-1	Resistor, 1.2k ohm 1/4 watt 2% RLO7S122G
	145-471	Resistor, 470 ohm 1/4 watt 5% metal film
	145-333	Resistor, 33k ohm 1/4 watt 5% metal film
		Resistor, 1.2k ohm 1/4 watt 2% RLO7S122G
R043		Resistor, 18k ohm 1/4 watt 2% RL07S183G
		Resistor, 18k ohm 1/4 watt 2% RL07S183G
		Resistor, 18k ohm 1/4 watt 2% RL07S183G
		, 2, 2 2, 2 2.0

R047 145-333-1 Resistor	, 5.6k ohm 1/4 watt 2% RL07S562G , 33K ohm 1/4 watt 2% RL07S333G , 15k ohm 1/4 watt 2% RL07S153G
R049 145-183-1 Resistor R050 145-103-1 Resistor R051 145-562-1 Resistor R052 145-333-1 Resistor R053 145-562-1 Resistor R054 145-100 Resistor R055 145-103 Resistor R056 145-474-1 Resistor R057 145-562-1 Resistor R058 145-471-1 Resistor R059 145-471-1 Resistor R060 145-471-1 Resistor R061 145-471-1 Resistor R062 145-030 Resistor R063 145-030 Resistor R064 145-223 Resistor R065 145-223 Resistor R066 145-104 Resistor R067 145-103 Resistor R068 145-103 Resistor R071 145-103 Resistor R072 145-103-1 Resistor </td <td>, 18k ohm 1/4 watt 2% RL07S183G , 10k ohm 1/4 watt 2% RL07S103G , 5.6k ohm 1/4 watt 2% RL07S562G , 33K ohm 1/4 watt 2% RL07S562G , 33K ohm 1/4 watt 2% RL07S562G , 10 ohm 1/4 watt 5% metal film , 10k ohm 1/4 watt 5% metal film , 10k ohm 1/4 watt 1% RN55D4753F , 5.6k ohm 1/4 watt 2% RL07S562G , 470 ohm 1/4 watt 2% RL07S562G , 470 ohm 1/4 watt 2% RL07S471G , 3.3 ohm 1/4 watt 5% metal film , 3.3 ohm 1/4 watt 5% metal film , 22k ohm 1/4 watt 5% metal film , 100k ohm 1/4 watt 5% metal film , 10k ohm 1/4 watt 5% RL07S222G , 10k ohm 1/4 watt 5% RL07S103G , 10k ohm 1/4 watt 2% RL07S103G</td>	, 18k ohm 1/4 watt 2% RL07S183G , 10k ohm 1/4 watt 2% RL07S103G , 5.6k ohm 1/4 watt 2% RL07S562G , 33K ohm 1/4 watt 2% RL07S562G , 33K ohm 1/4 watt 2% RL07S562G , 10 ohm 1/4 watt 5% metal film , 10k ohm 1/4 watt 5% metal film , 10k ohm 1/4 watt 1% RN55D4753F , 5.6k ohm 1/4 watt 2% RL07S562G , 470 ohm 1/4 watt 2% RL07S562G , 470 ohm 1/4 watt 2% RL07S471G , 3.3 ohm 1/4 watt 5% metal film , 3.3 ohm 1/4 watt 5% metal film , 22k ohm 1/4 watt 5% metal film , 100k ohm 1/4 watt 5% metal film , 10k ohm 1/4 watt 5% RL07S222G , 10k ohm 1/4 watt 5% RL07S103G , 10k ohm 1/4 watt 2% RL07S103G
R075 145-103-1 Resistor R076 145-103-1 Resistor R077 145-682-1 Resistor R078 145-183-1 Resistor R079 145-103-1 Resistor R080 145-103-1 Resistor R081 145-103-1 Resistor R082 145-682-1 Resistor	, 10k ohm 1/4 watt 2% RL07S103G , 10k ohm 1/4 watt 2% RL07S103G , 6.8k ohm 1/4 watt 2% RL07S682G , 18k ohm 1/4 watt 2% RL07S183G , 10k ohm 1/4 watt 2% RL07S103G , 10k ohm 1/4 watt 2% RL07S103G , 10k ohm 1/4 watt 2% RL07S103G , 6.8k ohm 1/4 watt 2% RL07S682G
R085 145-104 Resistor R086 145-103-1 Resistor R087 145-103-1 Resistor R088 145-104 Resistor R089 145-104 Resistor R090 145-104 Resistor R091 145-104 Resistor R092 145-104 Resistor R093 145-104 Resistor R093 145-102 Resistor R094 145-104 Resistor	, 12k ohm 1/4 watt 2% RL07S123G , 100k ohm 1/4 watt 5% metal film , 10k ohm 1/4 watt 2% RL07S103G , 10k ohm 1/4 watt 2% RL07S103G , 100k ohm 1/4 watt 5% metal film , 1k ohm 1/4 watt 5% metal film , 100k ohm 1/4 watt 5% metal film , 100k ohm 1/4 watt 5% metal film

Parts List R-15C Audio Processing Board MARTI 800-294 08-25-93

• Item	Marti No.	Description
*		
R098	145-103	Resistor, 10k ohm 1/4 watt 5% metal film
• R099	145-183-1	Resistor, 18k ohm 1/4 watt 2% RL07S183G
'R100	145-183-1	Resistor, 18k ohm 1/4 watt 2% RL07S183G
R101	145-822-1	Resistor, 8.2K ohm 1/4 watt 2% RL07S822G
R102	145-104	Resistor, 100k ohm 1/4 watt 5% metal film
R103	145-104	Resistor, 100k ohm 1/4 watt 5% metal film
R104	145-103-1	Resistor, 10k ohm 1/4 watt 2% RL07S103G
R105	145-104	Resistor, 100k ohm 1/4 watt 5% metal film
R106	145-030	Resistor, 3.3 ohm 1/4 watt 5% metal film
R107	145-472-1	Resistor, 4.7K ohm 1/4 watt 2% RL07S472G
R108	145-471	Resistor, 470 ohm 1/4 watt 5% metal film
	550-070	IC Socket, 8 pin E-CAM
	550-191	Connector, 2 Dual Pin Header
	800-294B	PC Board, Audio Processing
	550-125	Connector, 5 pin Molex Header
	550-182	Open Top Two Circuit Shunt Molex #15-38-10
	550-069	IC Socket, 14 pin



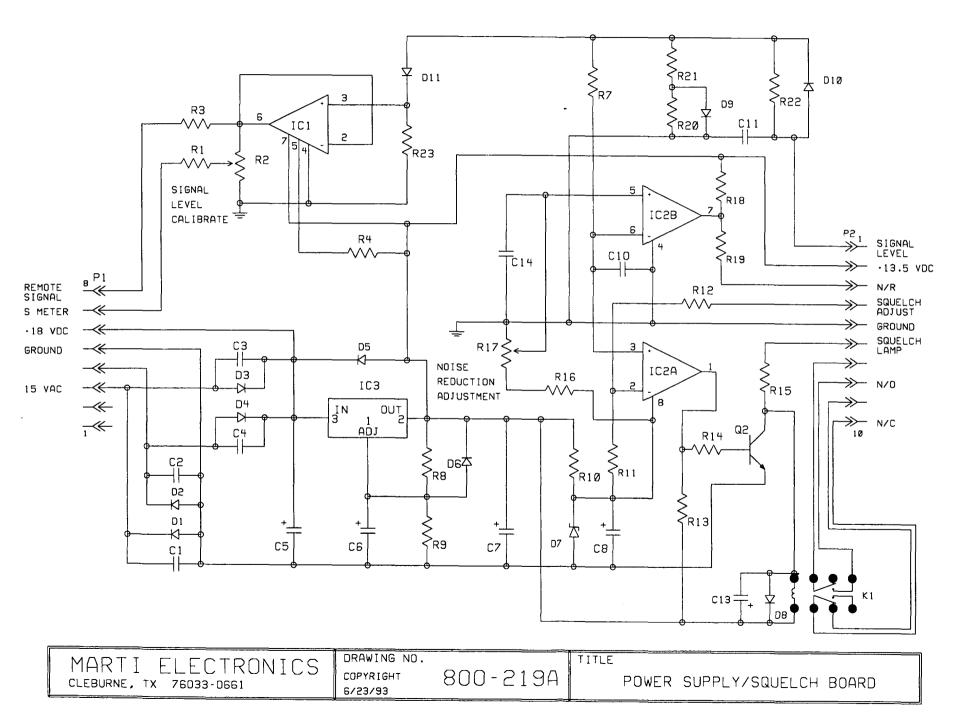
FRONT PANEL LED INDICATORS

MARII ELECTRONICS COPYRIG		II
CLEBURNE, TX 76033-0661 8/5/93	81111-291	R-15C METER BOARD

Parts List R-15C Metering Board MARTI 800-295 08-25-93

Item	Marti No.	Description
B1	510-196	Subminiature Lamp, #IFL-LX2182
	510-196	Subminiature Lamp, #IFL-LX2182
•	268-102	Capacitor, .001 mf 50v Z5U disc -20+80%
	410-255	LED, Green rectangular #351-6221
	410-155	LED, Red rectangular #35BL510
	410-113	LED, Yellow rectangular #351-6231
D4	410-113	LED, Yellow rectangular #351-6231
	414-007	Diode, Fagor 1N4007
M1	030-044M	Meter, HS13 VU (black)
P1	550-149	Connector, 6 pin Molex Angle Header
P2	550-149	Connector, 6 pin Molex Angle Header
P3	550-158	Connector, 4 pin Molex Angle Header
P4	550-149	Connector, 6 pin Molex Angle Header
R1	101-502	Potentiometer, 5K ohm cermet RVG0911V513A
R2	104-203	Potentiometer, 20K ohm cermet trimmer vert
R3	145-222	Resistor, 2.2k ohm 1/4 watt 5% metal film
R4	101-502	Potentiometer, 5K ohm cermet RVG0911V513A
R5	145-100	Resistor, 10 ohm 1/4 watt 5% metal film
R6	145-100	Resistor, 10 ohm 1/4 watt 5% metal film
S1	530-059	Switch, rotary #10WA135
S2	530-058	Switch, slide DPDT Switchcraft 11A1871
	800-295B	PC Board, R-15C Metering
•	513-033	Spacer, 4-40 x 13/16" hex threaded Concord
	500-055	Lockwasher, #4 internal tooth small patter
_	500-010	Screw, 4-40 x 3/8" phillips pan head M/S n
-	500-120	Eyelet, MR24-CA-0 copper

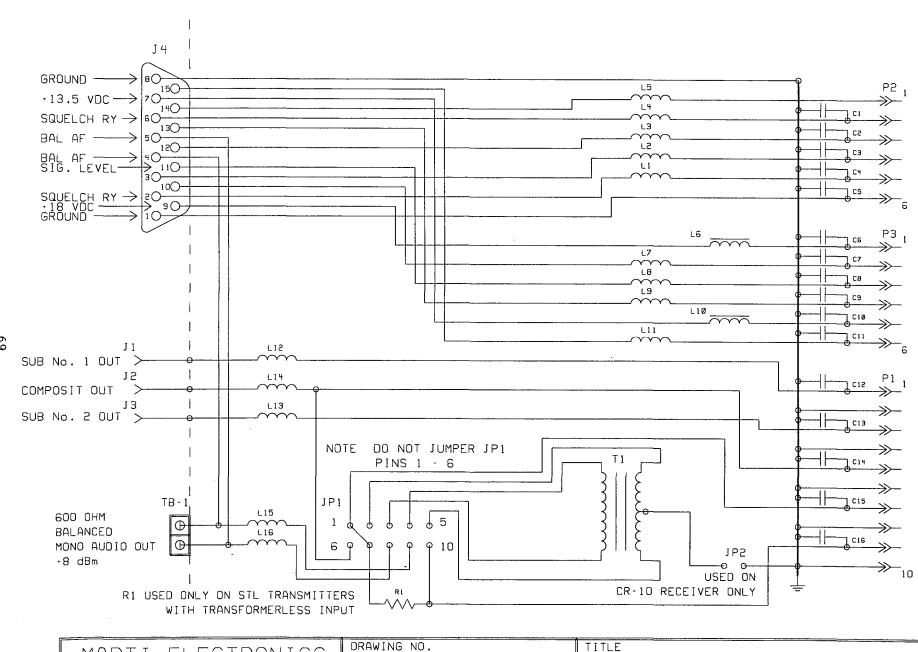




Item	Marti No.	Description
C01 C02	268-102	Capacitor, .001 mf 50v Z5U disc -20+80% Capacitor, .001 mf 50v Z5U disc -20+80%
C03 C04	268-102 268-102	Capacitor, .001 mf 50v Z5U disc -20+80% Capacitor, .001 mf 50v Z5U disc -20+80%
C04	219-472	Capacitor, electrolytic 4700uF 25V
C06	219-200	Capacitor, electrolytic 22uF 25V
C07	219-200	Capacitor, electrolytic 22uF 25V
C08	219-200	Capacitor, electrolytic 22uF 25V
C09	NOT USED	
C10	217-103	Capacitor, .1 mf 100v 10% mylar
C11	217-103	Capacitor, .1 mf 100v 10% mylar
C12	NOT USED	Granitan alastrolatia 10vE 25V
C13	219-080	Capacitor, electrolytic 10uF 25V Capacitor, .1 mf 100v 10% mylar
C14 D01	217-103 414-007	Diode, Fagor 1N4007
D01	414-007	Diode, Fagor 1N4007
	414-007	Diode, Fagor 1N4007
D04	414-007	Diode, Fagor 1N4007
D05	414-007	Diode, Fagor 1N4007
	414-007	Diode, Fagor 1N4007
D07	410-110	, ,
D08	414-007	Diode, Fagor 1N4007
D09	410-914	Diode, 1N4148
D10 D11	410-914 410-914	Diode, 1N4148 Diode, 1N4148
IC1	400-091A	Integrated Circuit, TI TLC271CP
IC2		Integrated Circuit, TI LM393P
IC3	400-317	Integrated Circuit, National LM317T
J1	550-165	Connector, 4 pin Molex Header
	550-125	Connector, 5 pin Molex Header
	570-035-1	Relay, Aromat HB2E-DC12V
Q1		Thomas at an Matamala 2N2004
Q2 R01	425-301 145-472	Transistor, Motorola 2N3904 Resistor, 4.7k ohm 1/4 watt 5% metal film
	100-501	Potentiometer, 500 ohm cermet trimmer
R03	145-472	Resistor, 4.7k ohm 1/4 watt 5% metal film
R04	145-433	Resistor, 43k ohm 1/4 watt 5% carbon film
R05	NOT USED	
R06	NOT USED	
R07	145-102	Resistor, 1k ohm 1/4 watt 5% metal film
R08	145-241-1	Resistor, 240 ohm 1/4 watt 2% RL07S241G
R09	145-232	Resistor, 2.32k ohm 1/4 watt 1% metal film Resistor, 100 ohm 1/4 watt 5% metal film
R10 R11	145-101 145-103	Resistor, 100 ohm 1/4 watt 5% metal film
R12	145-331	Resistor, 330 ohm 1/4 watt 5% metal film
R12	145-472	Resistor, 4.7k ohm 1/4 watt 5% metal film
R14	145-472	Resistor, 4.7k ohm 1/4 watt 5% metal film
R15		Resistor, 470 ohm 1/4 watt 5% metal film
R16	145-103	Resistor, 10k ohm 1/4 watt 5% metal film
R17		Potentiometer, 5k ohm cermet trimmer
R18	145-472	Resistor, 4.7k ohm $1/4$ watt 5% metal film

Parts List R-15C Power Supply MARTI 800-219 07-29-93

Item	Marti No.	Description
R19	145-472	Resistor, $4.7k$ ohm $1/4$ watt 5% metal film
R20	145-472	Resistor, 4.7k ohm $1/4$ watt 5% metal film
R21	145-333	Resistor, 33k ohm 1/4 watt 5% metal film
R22	145-472	Resistor, 4.7k ohm $1/4$ watt 5% metal film
R23	145-223	Resistor, 22k ohm $1/4$ watt 5% metal film
	520-051	Heatsink, Thermalloy 6030B-TT
	550-070	IC Socket, 8 pin E-CAM
	800-219B	PC Board, Power Supply R Receiver
	550-070	IC Socket, 8 pin E-CAM
	550-161	IC Socket, 16 pin Aromat #AXS-1016137



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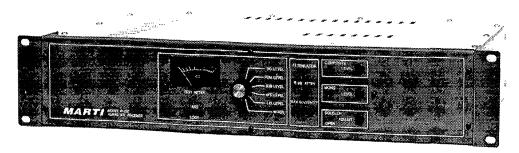
INPUT/OUTPUT BOARD

Ttom	Marti No.	Description
Item	Marci No.	Description
C01	270-102	Capacitor, monolithic chip, 1000 pf 50v 5%
C02	270-102	Capacitor, monolithic chip, 1000 pf 50v 5%
C03	270-102	Capacitor, monolithic chip, 1000 pf 50v 5%
C04	270-102	Capacitor, monolithic chip, 1000 pf 50v 5%
C05	270-102	Capacitor, monolithic chip, 1000 pf 50v 5%
C06	270-102	Capacitor, monolithic chip, 1000 pf 50v 5%
C07	270-102	Capacitor, monolithic chip, 1000 pf 50v 5%
C08	270-102	Capacitor, monolithic chip, 1000 pf 50v 5%
C09	270-102	Capacitor, monolithic chip, 1000 pf 50v 5%
C10	270-102	Capacitor, monolithic chip, 1000 pf 50v 5%
C11	270-102	Capacitor, monolithic chip, 1000 pf 50v 5%
C12	270-220	Capacitor, monolithic chip, 22 pf 50v 5%
C13	270-220	Capacitor, monolithic chip, 22 pf 50v 5%
C14	270-220	Capacitor, monolithic chip, 22 pf 50v 5%
C15	270-102	Capacitor, monolithic chip, 1000 pf 50v 5%
C16	270-102	Capacitor, monolithic chip, 1000 pf 50v 5%
J1	550-170	Connector, D-Sub 15 pin Angle DN15P-R
JP1	550-192	Connector, 3 Dual Pin Header
JP1	550-191	Connector, 2 Dual Pin Header
JP2	550-184	Connector, 1 Dual Pin Header
L01	330-018	Inductor, 10 uH 43LQ105-1
L02	330-018	Inductor, 10 uH 43LQ105-1 Inductor, 10 uH 43LQ105-1
L03	330-018	Inductor, 10 uH 43LQ105-1 Inductor, 10 uH 43LQ105-1
L04	330-018 330-018	Inductor, 10 uH 43LQ105-1
L05 L06	330-018	Inductor, Ferroxcube #VK20010-3B
L07	330-015	Inductor, 10 uH 43LQ105-1
L08	330-018	Inductor, 10 uH 43LQ105-1
L09	330-018	Inductor, 10 uH 43LQ105-1
L10	330-019	Inductor, Ferroxcube #VK20010-3B
L11	330-018	Inductor, 10 uH 43LQ105-1
L12	330-018	Inductor, 10 uH 43LQ105-1
L13	330-018	Inductor, 10 uH 43LQ105-1
L14	330-018	Inductor, 10 uH 43LQ105-1
L15	330-018	Inductor, 10 uH 43LQ105-1
L16	330-018	Inductor, 10 uH 43LQ105-1
P1	550-125	Connector, 5 pin Molex Header
P1	550-125	Connector, 5 pin Molex Header
P2	550-136	Connector, 6 pin Molex Header
P3	550-136	Connector, 6 pin Molex Header
T1	310-014M	Transformer, audio, #671-9041
TB1	511-043B	Terminal, 2 point w/brackets
	550-182	Open Top Two Circuit Shunt Molex #15-38-10
	500-004	Screw, 4-40 x 1/4" phillips pan head M/S n
	550-182	Open Top Two Circuit Shunt Molex #15-38-10
	550-182 550-186	Open Top Two Circuit Shunt Molex #15-38-10 Connector, 3 Pin Molex Header
	550-182	Open Top Two Circuit Shunt Molex #15-38-10
	550-182	Open Top Two Circuit Shunt Molex #15-38-10
	800-193B	PC Board, I/O Filter STL-10 R-10
		, –,



R-15C/100

FM RECEIVER 88 - 108 MHz



R-15C/100

The Model R-15C/100 is a synthesized 87.5 - 108 MHz professional-quality receiver. It is of totally shielded, filtered, rackmounted construction with manually tuned RF pre-selection to avoid problems in high-level RF locations. (Additional preselectors may be required in relay applications.) Separate outputs are provided for 600 ohm balanced mono audio, unbalanced composite, and subcarriers.

R-15C Features

- Synthesized (12.5 KHz steps), manual tuned preselectors.
- Excellent noise and distortion specs.
- High selectivity IF filters.
- 10 dB selectable input attenuator.
- Two year limited warranty.
- Selectable 0, 25, 50, 75 µs de-emphasis in mono mode.
- Balanced 600 ohm, +10 dBm mono audio output. (adjustable)
- BNC connector for 3.5 v P-P composite output. (adjustable)
- Metering and LED indicators for all important operating parameters.
- Squelch relay mutes all outputs with contacts for other switching.

List Price \$1895.00

Items Required for Typical Receiver Installation

- R-15C receiver
- High gain Yagi antenna cut to receiver frequency. (The height of this antenna determines receiving distance.)
- ft. of 50 ohm semi-rigid coaxial cable (LDF4-50) with connectors.
- flex jumper cables for connecting receiver and antenna to semirigid coaxial cable.
- installation kit K1 for bonding and weatherproofing connectors exposed to moisture.

R-15C Receiver Specifications

Frequency Range Sensitivity	87.5 - 108 MHz 2.2 microvolts for 50 dB S/N ratio (de- emphasized, main channel) 7.1 microvolts for 60 dB S/N ratio
Input Impedance Frequency Stability Selectivity	50 ohms ±.00025%, -20° C to +50° C Filter -3 dB -60 dB F250 122 KHz 380 KHz
De-emphasis Spurious Response	Adjustable 0, 25, 50, 75 μs (mono only) - 80 dB
Audio Output	Balanced 600 ohms, +10 dBm, barrier strip. BNC connector for Composite output
Frequency Response	±0.1 dB 30 Hz - 55 KHz (composite output)
Noise	-80 dB
Distortion	0.1 % THD
Composite Output Level.	3.5 volts peak-to-peak (adjustable)
Power Requirements	120/220 VAC*, 50/60 Hz, 13.5 VDC, .8 Amps. *(Specify operating voltage)
AC Power Supply	Internal, precision, electronically regulated with current limiting
Automatic Changeover	Provision for automatic changeover by adding an ARS-15A and an additional receiver
Accessory Connector	15 pin connector on rear panel provides filtered I/O, remote control, changeover, and external DC power
Metering	Illuminated test meter indicates RF signal level, audio output level, subcarrier output level, +13 v DC supply, L.O. level, mixer level. LED indicators for power, open
Panel Controls	squelch, composite mode, and AFC lock 10 dB attenuation switch, mono level adjust, squelch adjust, meter switch, composite level adjust
RF Connector Dimensions	UG-58 (type N female) 3-1/2" x 19" x 12" (HWD) (8.9 cm x 48.3 cm x 30.5 cm)
Weight	Net 8 lbs. Domestic packed 12 lbs. Net 3.63 kg. Export packed 5.45 kg.



The performance-value leader in Broadcast Equipment

Marti Electronics, P.O. Box 661 Cleburne, Texas 76033-0661 (817) 645-9163 FAX (817) 641-3869