



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

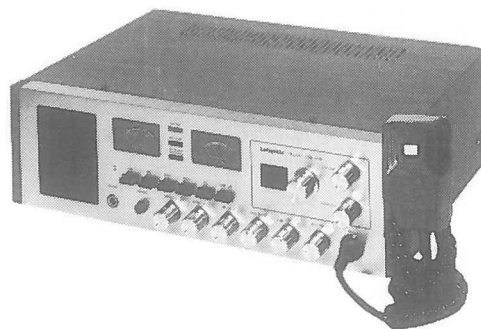
Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license.

(Refer to FCC Rules and Regulations Part 95, Subpart C & D.)

The frequency of the transmitter should be checked periodically with a secondary frequency standard to insure proper and legal operation.

Best results will be obtained when adjusting the final RF output circuit if the antenna normally used is connected and the chassis is as nearly in the cabinet as possible.

Connect either 50-ohm dummy load or the normally used antenna system.



MODEL TELSAT SSB-140

MANUFACTURER'S SPECIFICATIONS

RECEIVER

Receiving System	SSB: Single conversion superheterodyne. AM: Dual conversion superheterodyne.
Sensitivity	SSB: 0.25 μ V for 10 dB S/N ratio. AM: 1 μ V for 10 dB S/N ratio.
Selectivity	SSB: 2 kHz at 6 dB down. AM: 6 kHz at 6 dB down.
Adjacent Channel Rejection	-70 dB
Fine Tune Control	$\pm$ 800 Hz
Audio Output Power	3 watts at 8 ohms.
Squelch Range	SSB: 0.7 μ V to 500 μ V AM: 1 μ V to 500 μ V
Intermediate Frequency	SSB: 10.695 MHz AM: 1st - 10.695 MHz 2nd - 0.455 MHz

SSB TRANSMITTER

SSB Generation	Double balanced modulator with crystal lattice filter.
RF Output Power	PEP 12 Watts max at 13.8V DC.
Carrier Suppression	40 dB down.
Unwanted Sideband Suppression	60 dB down.
Harmonic Suppression	60 dB down.

AM TRANSMITTER

Modulation	High level class B
RF Output Power	4 Watts max at 13.8V DC.
Harmonic Suppression	60 dB down.

PA

Audio Output Power	3 Watts.
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MISCELLANEOUS

Antenna Input Impedance	Nominal 50 ohms.
Maximum Current Drain (13.8V DC)	1.5 AMPS.
Power Consumption (AC)	75 Watts.
Dimensions (Overall)	15-3/4"(W) x 12-1/4"(D) x 4-3/4"(H) 400 mm(W) x 311 mm(D) x 121 mm(H)
Net Weight	13 lbs. 4 oz./6 kg.
Accessories	1. Push-to-talk Dynamic Mic 2. AC Power Cable

Courtesy of the Manufacturer

HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

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LAFAYETTE MODEL TELSAT SSB-140

ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment.
 Maintain line voltage at 120V AC. Allow a 15-minute warm-up period.
 Adjust RV1 (in AC Power Supply) for 13.8 volts DC at TP9.
 Connect low sides of test equipment to ground unless specified otherwise.
 Connect 50-ohm dummy load or antenna before keying transmitter.
 Connect microphone.

Suggested Alignment Tools: GC ELECTRONICS:
 T1 thru T5, T7, T8, T9, T11, T12, VCO 9440
 T10, T13, T14, T15 5000,5009,8276,8728,9089
 T6, L7, L11, L13 8728,9304,9089
 CT1 thru CT5 5000,8276,9089

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP2 (IC1, Pin 3).	Ch. 19, AM	CT3	Adjust for 10.240MHz $\pm$ 50Hz.
Input of oscilloscope to TP3 (IC2, Pin 4).	Ch. 19, AM	T3	Adjust for maximum RF (130mV p-p typical). (See Figure 2.)
Input of frequency counter to TP3 (IC2, Pin 4).	Ch. 19, AM/USB Fine Tune Midrange	CT1	Adjust for 20.105MHz $\pm$ 40Hz.
Input of frequency counter to TP3 (IC2, Pin 4).	Ch. 19, LSB Fine Tune Midrange	CT2	Adjust for 20.1035MHz $\pm$ 40Hz.
Input of DC meter to TP1 (input of VCO block).	Ch. 1, AM	VCO	Adjust for 3.60 volts $\pm$.1 volt. Check for approximately 2.00 volts on Channel 40.
Input of frequency counter to TP6 (IC1, Pin 2).	Ch. 1, AM		Check for 2.550MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of oscilloscope to TP7 (T2 Secondary).	Ch. 19, AM	T1,T2	Adjust for maximum RF (60mV p-p typical). (See Figure 3.)
Input of frequency counter to TP7 (T2 Secondary).	Ch. 1, AM/USB Fine Tune Midrange		Check for 37.660MHz. If necessary, readjust CT1 for correct frequency. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP7 (T2 Secondary).	Ch. 1, LSB Fine Tune Midrange		Check for 37.657MHz. If necessary, readjust CT2 for correct frequency. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP5 (IC2, Pin 3).	Ch. 19, USB	CT5	Adjust for 10.695MHz $\pm$ 50Hz.
Input of frequency counter to TP5 (IC2, Pin 3).	Ch. 19, LSB	CT4	Adjust for 10.692MHz $\pm$ 50Hz.

RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication. Set generator output low enough to prevent AGC limiting. Preset controls as follows, unless otherwise noted: RF Gain Maximum, Clarifier Midrange, Squelch MINIMUM, Tone Fully clockwise, NB Off, ANL Off, Hi Filter Off.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP8 (T13 tap). 455kHz, 1000Hz @ 30% modulation.	Ch. 19, AM Fine Tune Midrange	T14,T15	Adjust for maximum output.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19, AM Fine Tune Midrange	T13,T10,T9, T8,T7	Adjust for maximum output. Readjust T14 and T15 for maximum.
Output of signal generator thru .01uF to antenna input. 10.69535MHz, no modulation.	Ch. 19, USB Fine Tune Midrange	T12,T11	Adjust for maximum output.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.
Preset controls as follows, unless otherwise noted: RF Gain Maximum, Clarifier Midrange, Squelch MINIMUM, Tone Fully clockwise, NB Off, ANL Off, Hi Filter Off.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of DC meter to TP10 (junction of R81 and R85). No signal input.	Ch. 19, USB	RV8	AGC Adjust for 2.00 volts.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output 300uV.	Ch. 19, AM Squelch Maximum	RV9	AM SQUELCH RANGE Adjust so squelch just breaks.
Output of signal generator thru .01uF to antenna input. 27.186MHz, no modulation. Output 300uV.	Ch. 19, USB Squelch Maximum	RV10	SSB SQUELCH RANGE Adjust so squelch just breaks.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19, AM	RV6	AM SIGNAL METER Adjust for 9 on signal meter.
Output of signal generator thru .01uF to antenna input. 27.186MHz, no modulation. Output 100uV.	Ch. 19, USB	RV7	SSB SIGNAL METER Adjust for 9 on signal meter.

TRANSMITTER ALIGNMENT

Connect a 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmit frequency and power on all active channels after alignment of transmitter.
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of RF wattmeter to antenna input. Inject a 2400Hz, 10mV audio signal at mic input.	Ch. 19, USB Mic Gain Maximum	T4,T5,T6, L11,L7,L13	Adjust for maximum RF output.

TRANSMITTER ADJUSTMENTS

Connect a 50-ohm, 25-watt dummy load to antenna connector.

NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.

See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of oscilloscope or RF wattmeter to antenna input. No modulation.	Ch. 19, USB or LSB Mic Gain MINIMUM	RV4, RV5	CARRIER BALANCE Adjust for MINIMUM RF output.
Insert a 0-150mA DC meter between Q10 emitter and ground. No modulation input.	Ch. 19, USB or LSB Mic Gain MINIMUM	RV1A	FINAL BIAS Adjust for 35mA $\pm$ 10mA bias current.
Input of RF wattmeter to antenna input. Inject a two-tone, 100mV audio signal at mic input.	Ch. 19, USB or LSB Mic Gain Maximum	RV11	SSB MIC GAIN . Set RV2 to MINIMUM and adjust RV11 for 11.0 watts PEP RF output maximum.
Input of RF wattmeter to antenna input. Inject a 2400Hz, 100mV audio signal at mic input.	Ch. 19, USB or LSB Mic Gain Maximum	RV2	SSB RF ALC Adjust for 12.0 watts PEP RF output maximum.
Input of oscilloscope or modulation meter to antenna input. Inject a 2500Hz, 70mV audio signal at mic input.	Ch. 19, AM Mic Gain Maximum	RV12	AM AMC Adjust for 90% modulation maximum. (See Figure 1.)
Input of RF wattmeter to antenna input.	Ch. 19, AM Mic Gain MINIMUM	VR4	AM POWER Adjust for 4.0 watts RF output maximum.
Input of RF wattmeter to antenna input.	Ch. 19, AM Mic Gain MINIMUM	RV3	RF METER At 4.0 watts RF output, adjust for 4 on RF meter.
Connect a 150-ohm, non-inductive lead to antenna input.	Ch. 19, AM SWR/CAL Cal	RV501	SWR METER Adjust SWR/CAL for Set on SWR scale of meter. Switch to SWR position and adjust RV501 for 3 on SWR scale of meter.
Input of oscilloscope or modulation meter to antenna input. Inject a 1000Hz audio signal at mic input. Set generator output to produce 90% modulation.	Ch. 19, AM Mic Gain Maximum MOD/CAL Cal	RV521	MODULATION METER Set MOD/CAL for Set mark on Mod scale of meter. Switch MOD/CAL to Mod and adjust RV521 for 90% on modulation scale of meter.
Connect a 150-ohm, non-inductive lead to antenna input.	Ch. 19, AM	RV511	AWI Adjust so AWI indicator just begins to illuminate.

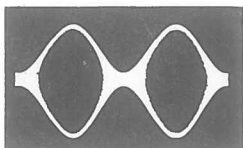


FIG. 1

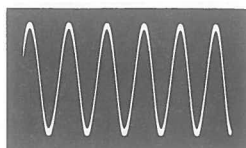


FIG. 2

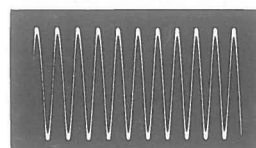
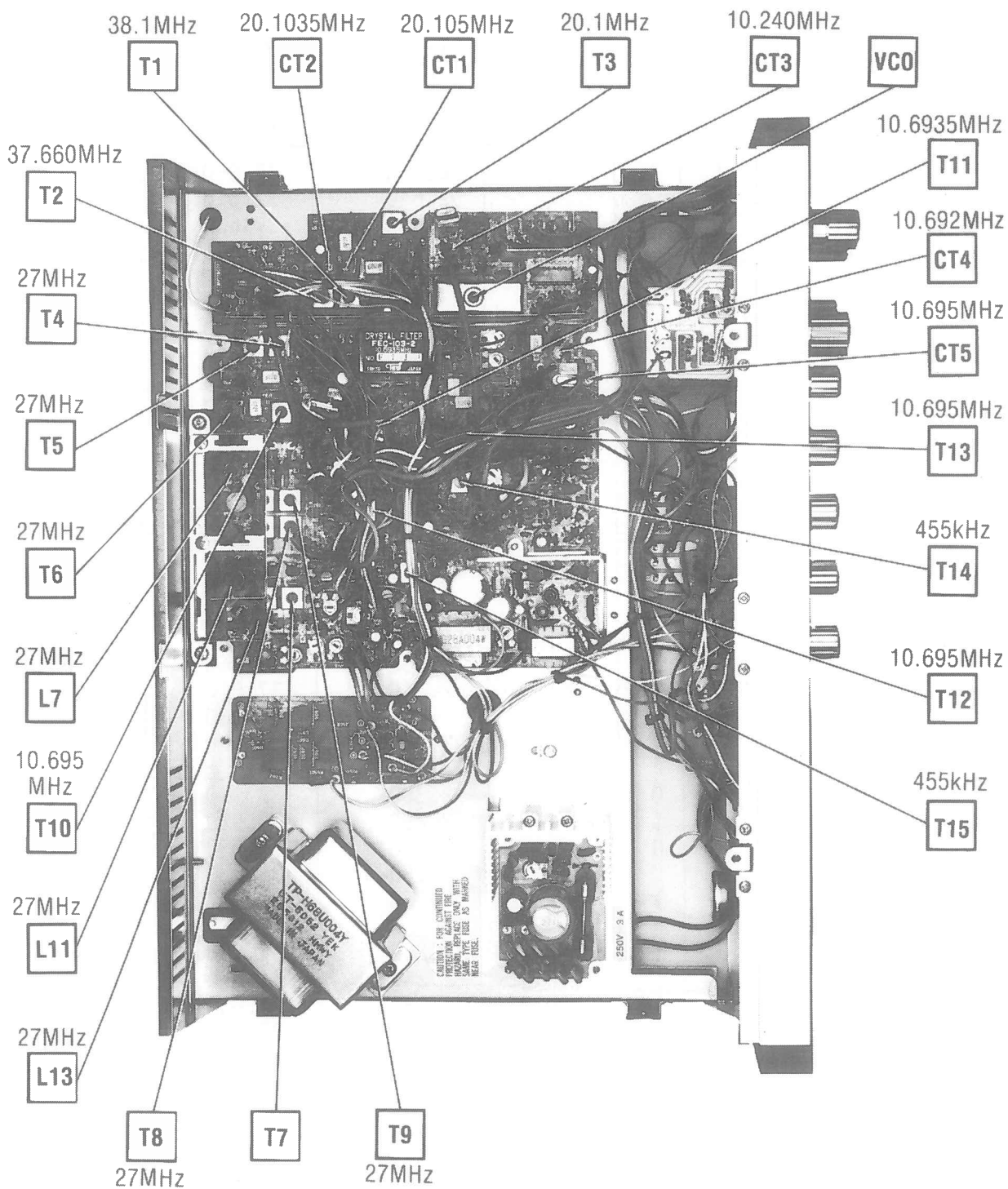


FIG. 3

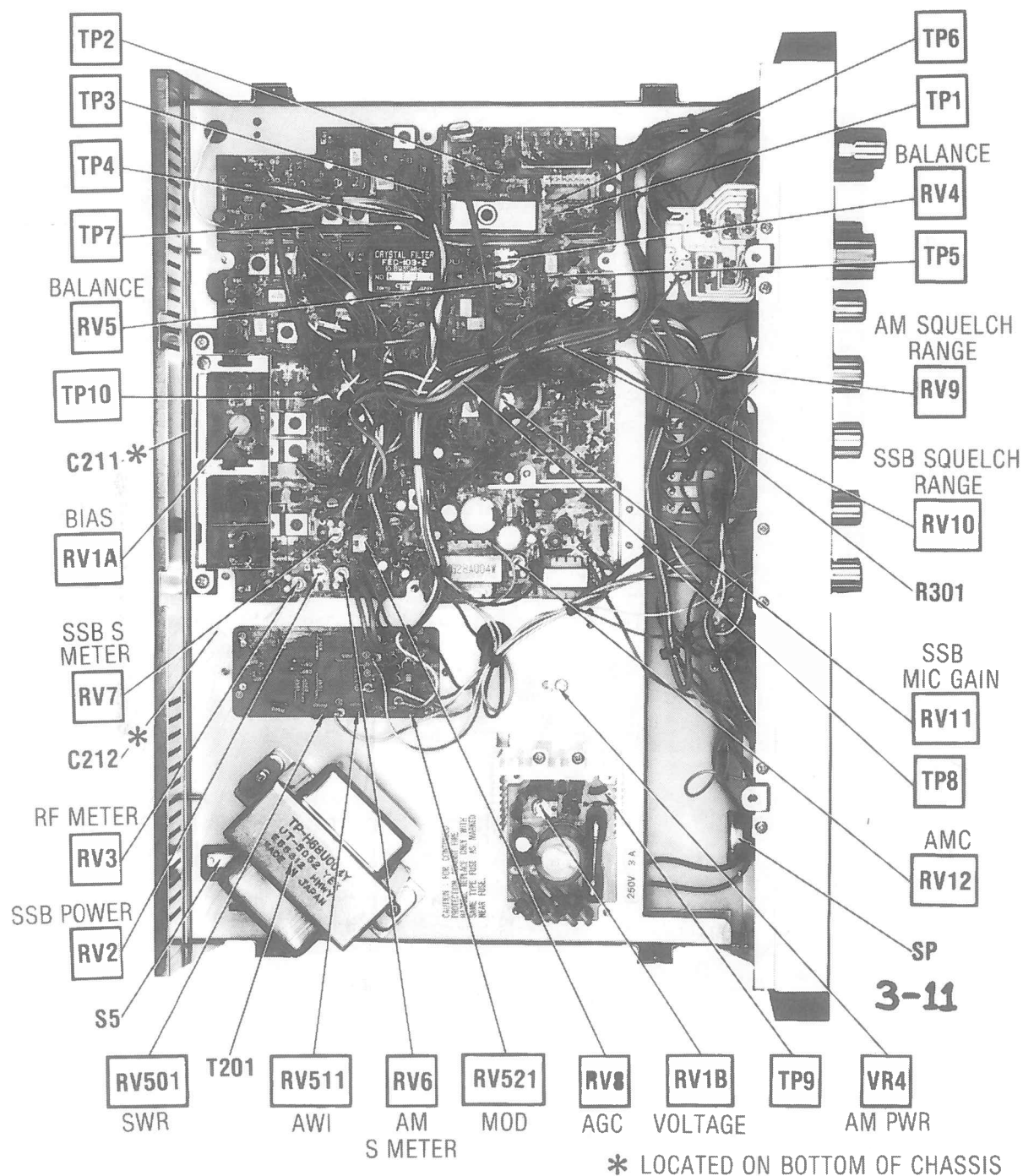
TRUTH CHART

CHANNEL	1 = 5.40 Volts 0 = 0 Volts								DIVIDER INPUT IN MHz AT TP6	AM/USB SYNTH OUTPUT IN MHz AT TP7	LSB SYNTH OUTPUT IN MHz AT TP7
	CHANNEL INPUT CODES										
	IC1 PINS										
	10	11	12	13	14	15					
1	1	1	1	1	1	1			2.550	6	7
2	1	1	1	1	1	0			2.540	6	
3	1	1	1	1	0	1			2.530		
4	1	1	1	0	1	1			2.510		6
5	1	1	1	0	1	0			2.500	1	
6	1	1	1	0	0	1			2.490		
7	1	1	1	0	0	0			2.480		
8	1	1	0	1	1	0			2.460		
9	1	1	0	1	0	1			2.450		7
10	1	1	0	1	0	0			2.440	.	
11	1	1	0	0	1	1			2.430		
12	1	1	0	0	0	1			2.410	.	.
13	1	1	0	0	0	0			2.400	1	7
14	1	0	1	1	1	1			2.390		1
15	1	0	1	1	1	0			2.380		
16	1	0	1	1	0	0			2.360		7
17	1	0	1	0	1	1			2.350		
18	1	0	1	0	1	0			2.340		
19	1	0	1	0	0	1			2.330	.	
20	1	0	0	1	1	1			2.310		
21	1	0	0	1	1	0			2.300		
22	1	0	0	1	0	1			2.290	7.	1
23	1	0	0	0	1	0			2.260		
24	1	0	0	1	0	0			2.280		
25	1	0	0	0	1	1			2.270		.
26	1	0	0	0	0	1			2.250		
27	1	0	0	0	0	0			2.240		
28	0	1	1	1	1	1			2.230		
29	0	1	1	1	1	0			2.220		
30	0	1	1	1	0	1			2.210		
31	0	1	1	1	0	0			2.200	1	
32	0	1	1	0	1	1			2.190		
33	0	1	1	0	1	0			2.180		7
34	0	1	1	0	0	1			2.170		7
35	0	1	1	0	0	0			2.160		
36	0	1	0	1	1	1			2.150	.	
37	0	1	0	1	1	0			2.140		
38	0	1	0	1	0	1			2.130		
39	0	1	0	1	0	0			2.120	.	
40	0	1	0	0	1	1			2.110	1	

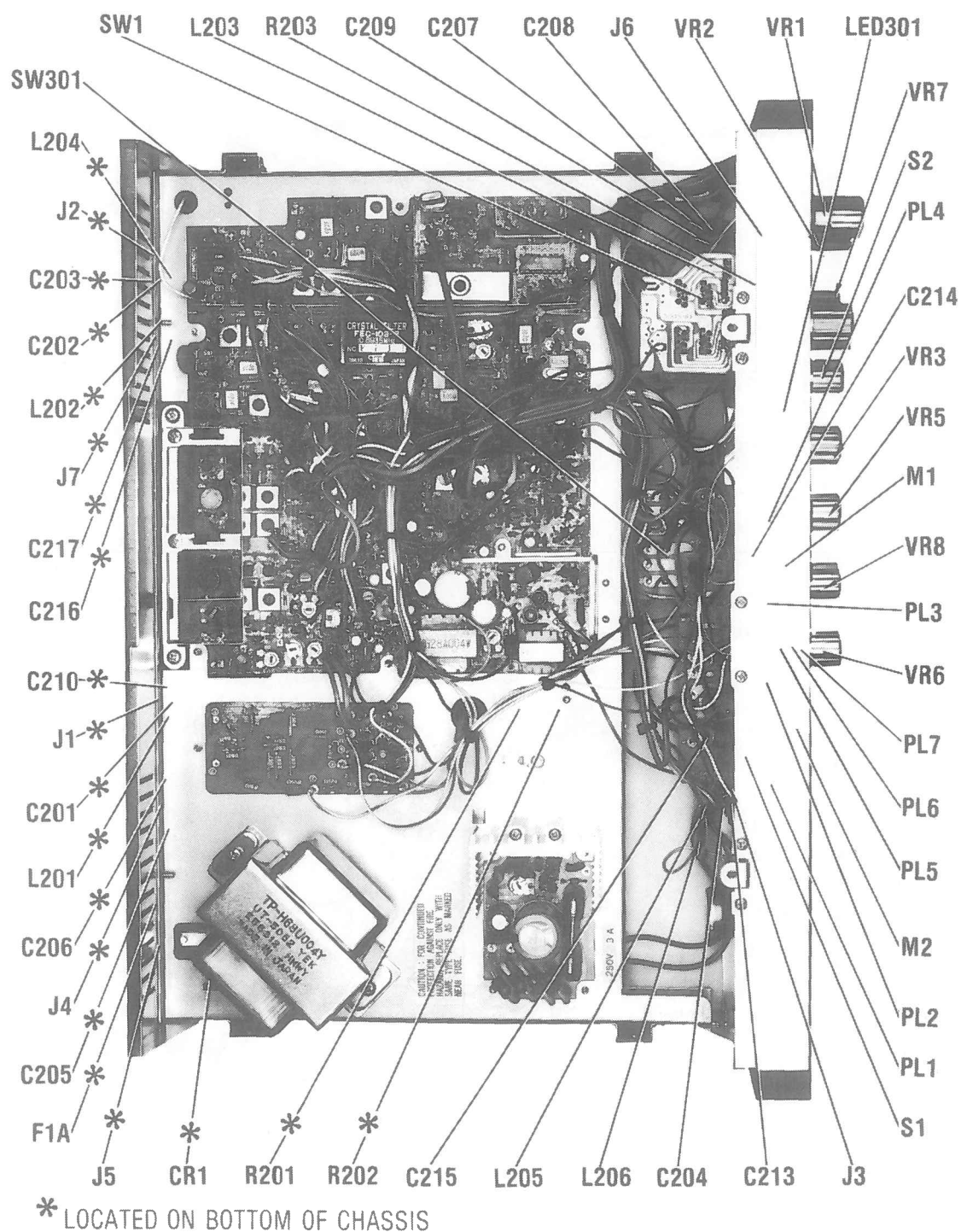
A A T E L S B



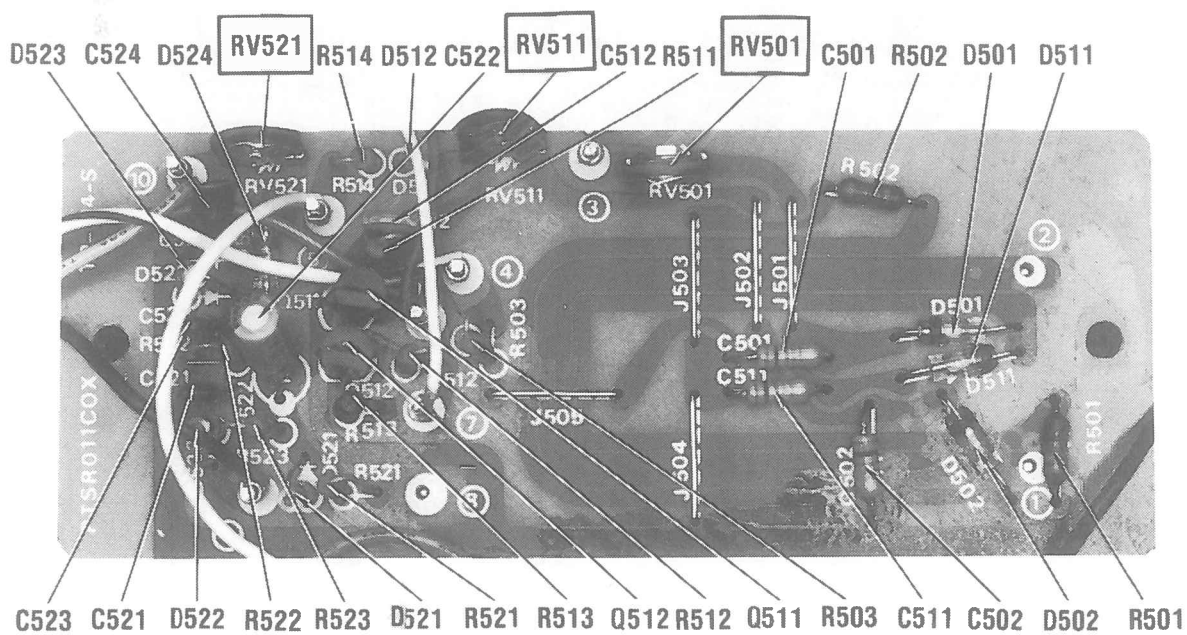
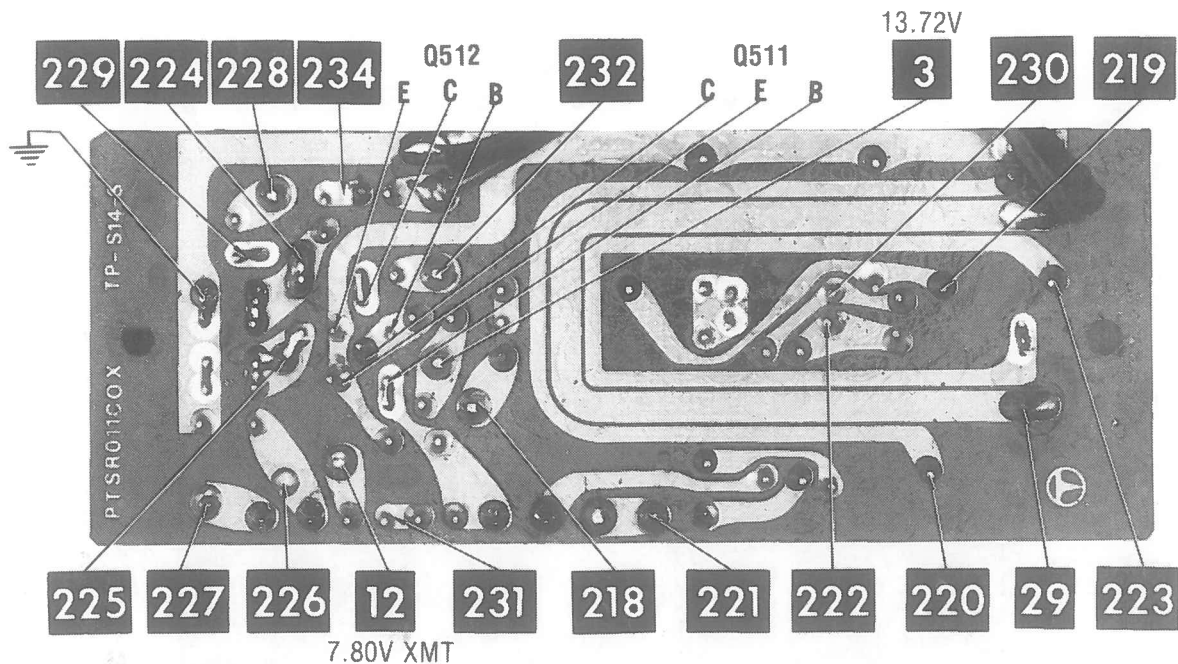
CHASSIS-OVERALL



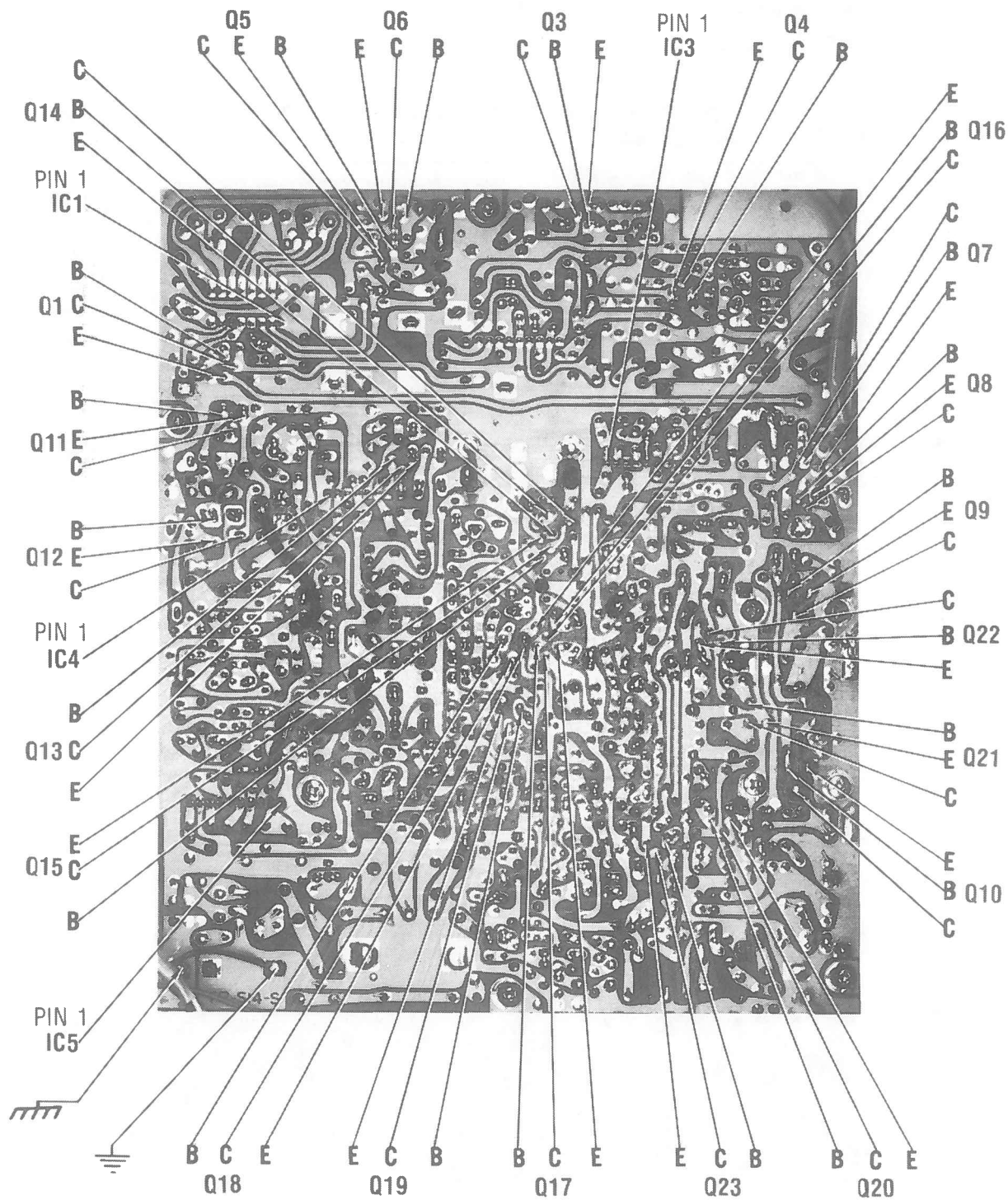
CHASSIS-OVERALL



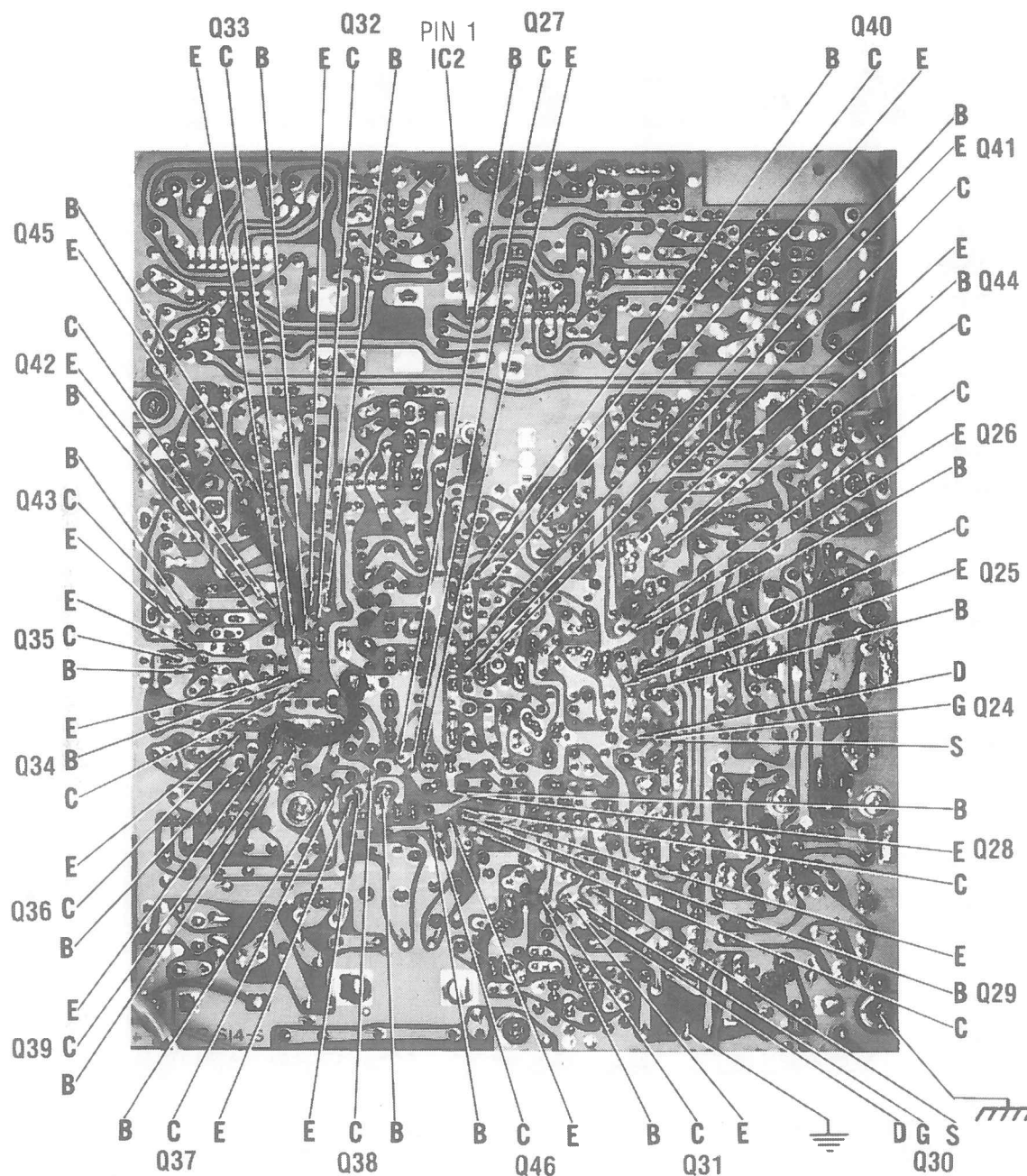
CHASSIS-OVERALL

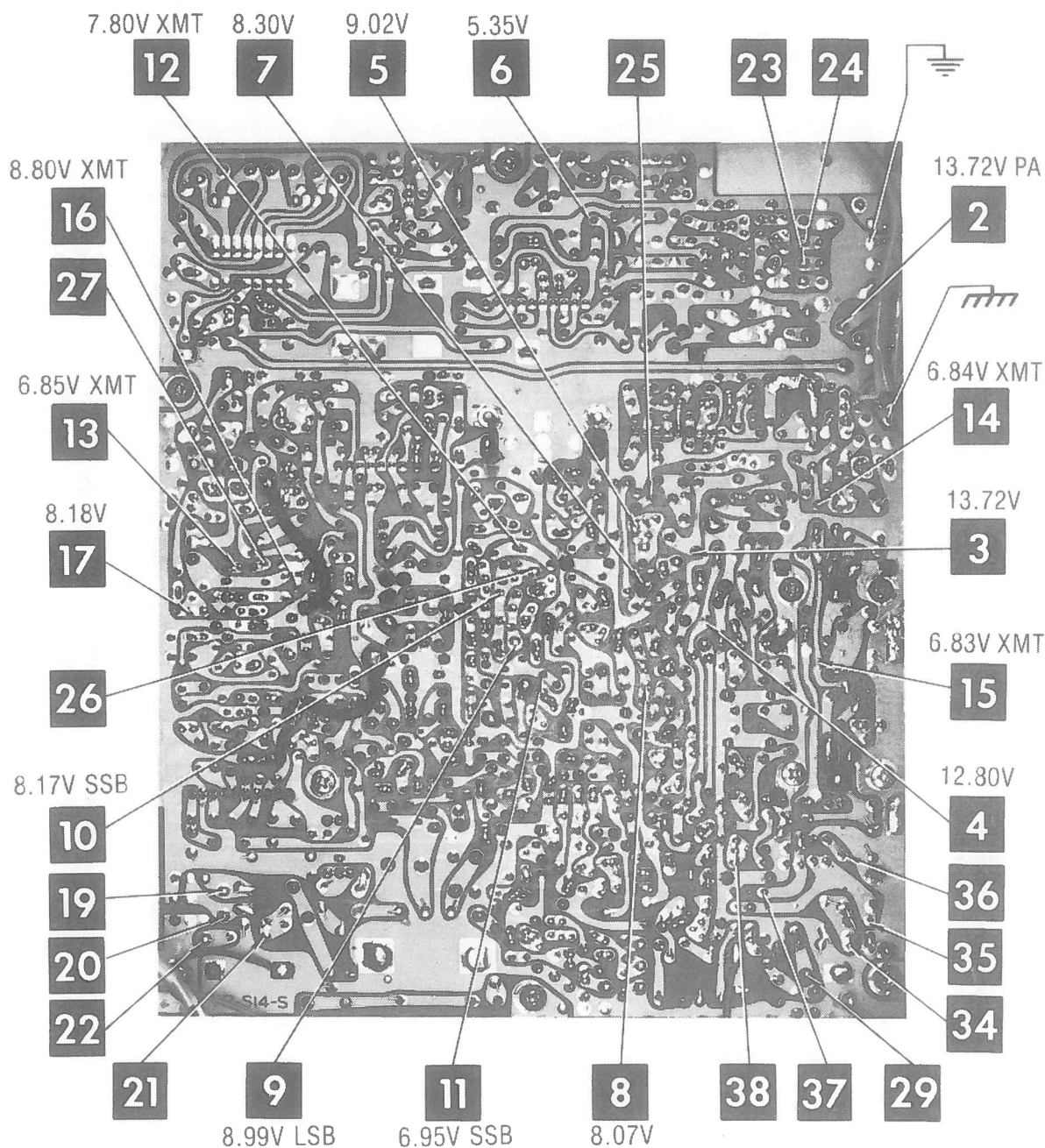


SWR BOARD



MAIN BOARD



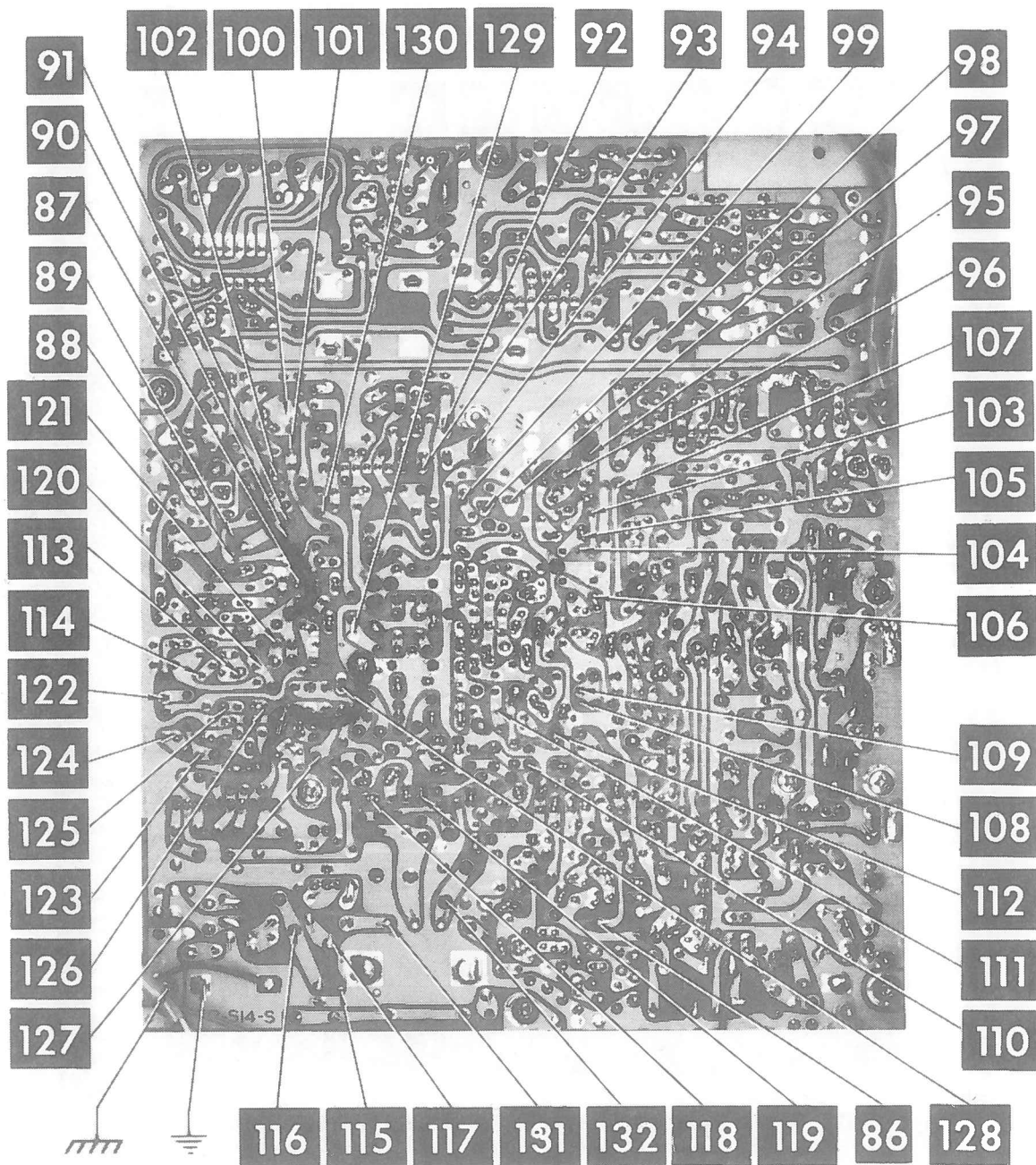


MA IN BOARD

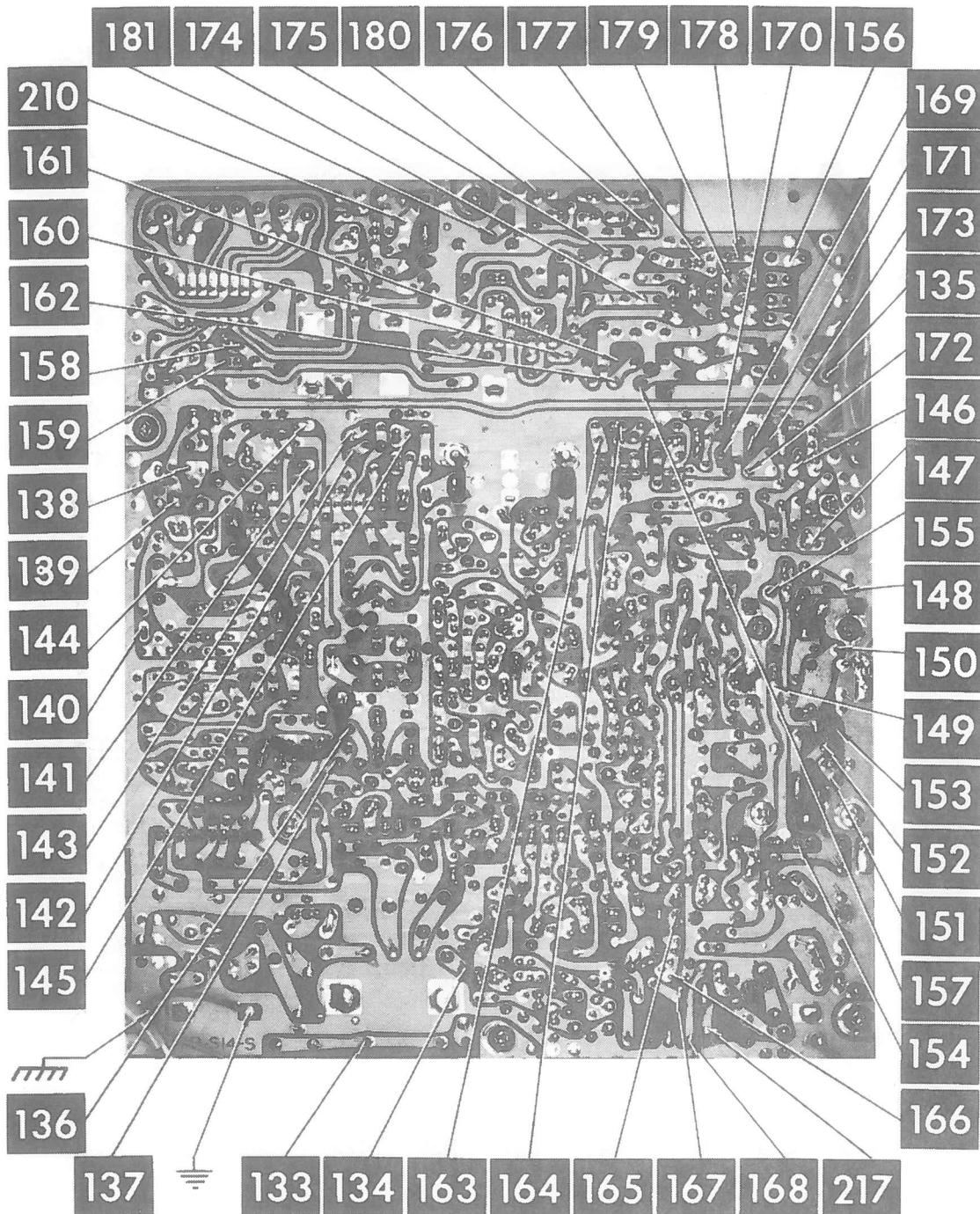


LAFAYETTE MODEL TELSAT SSB-140

MAIN BOARD

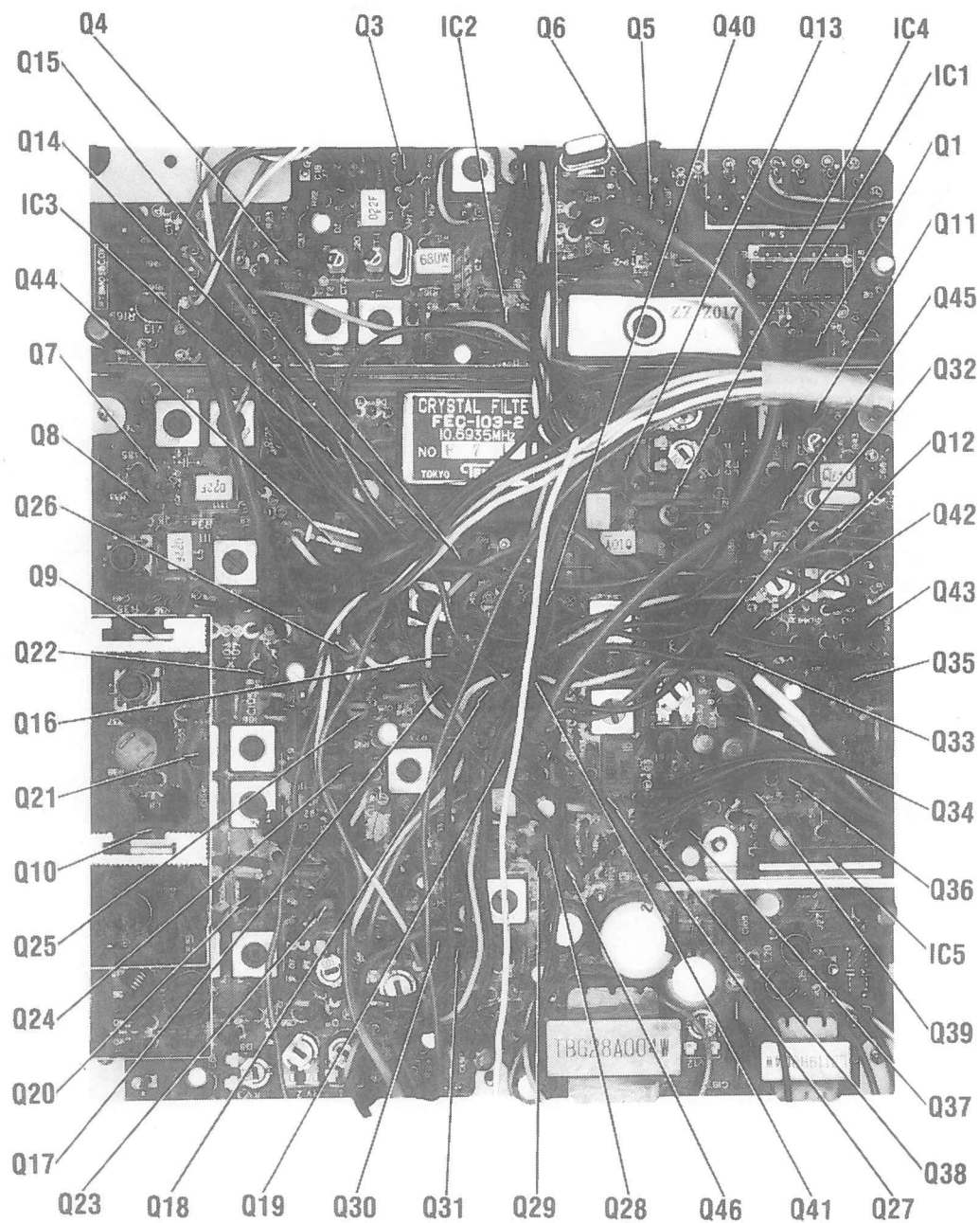


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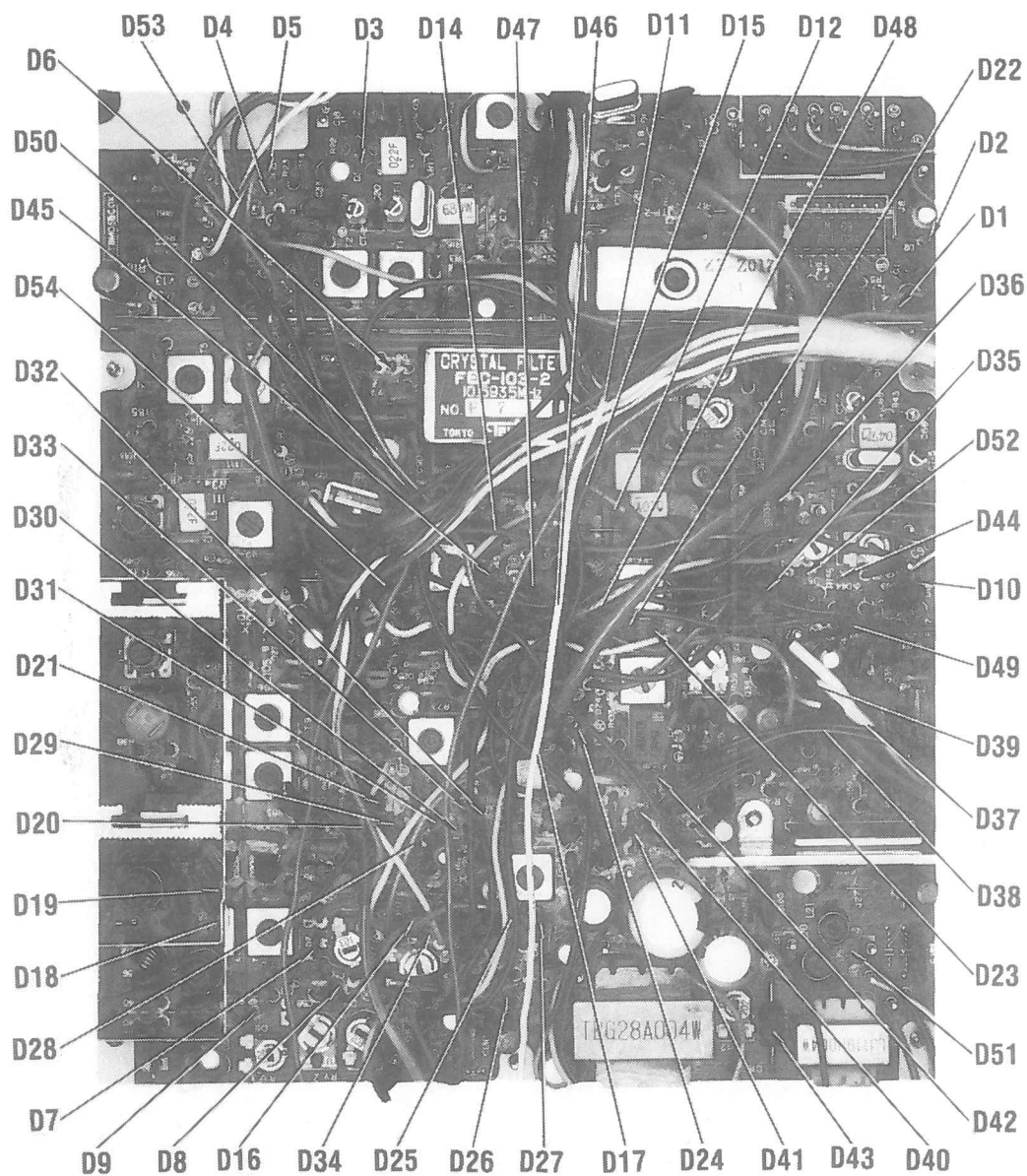


LAFAYETTE MODEL TELSAT SSB-140

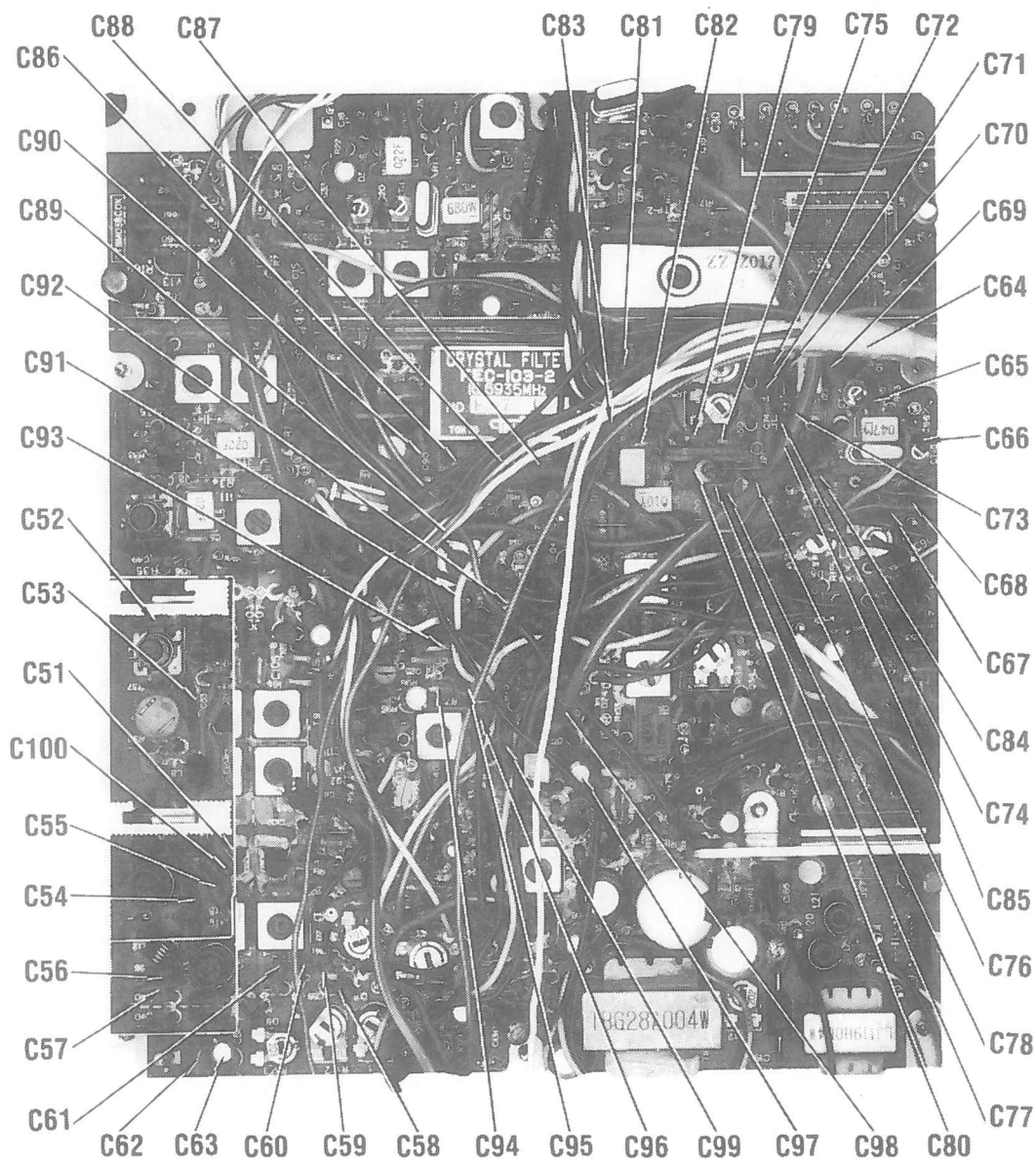
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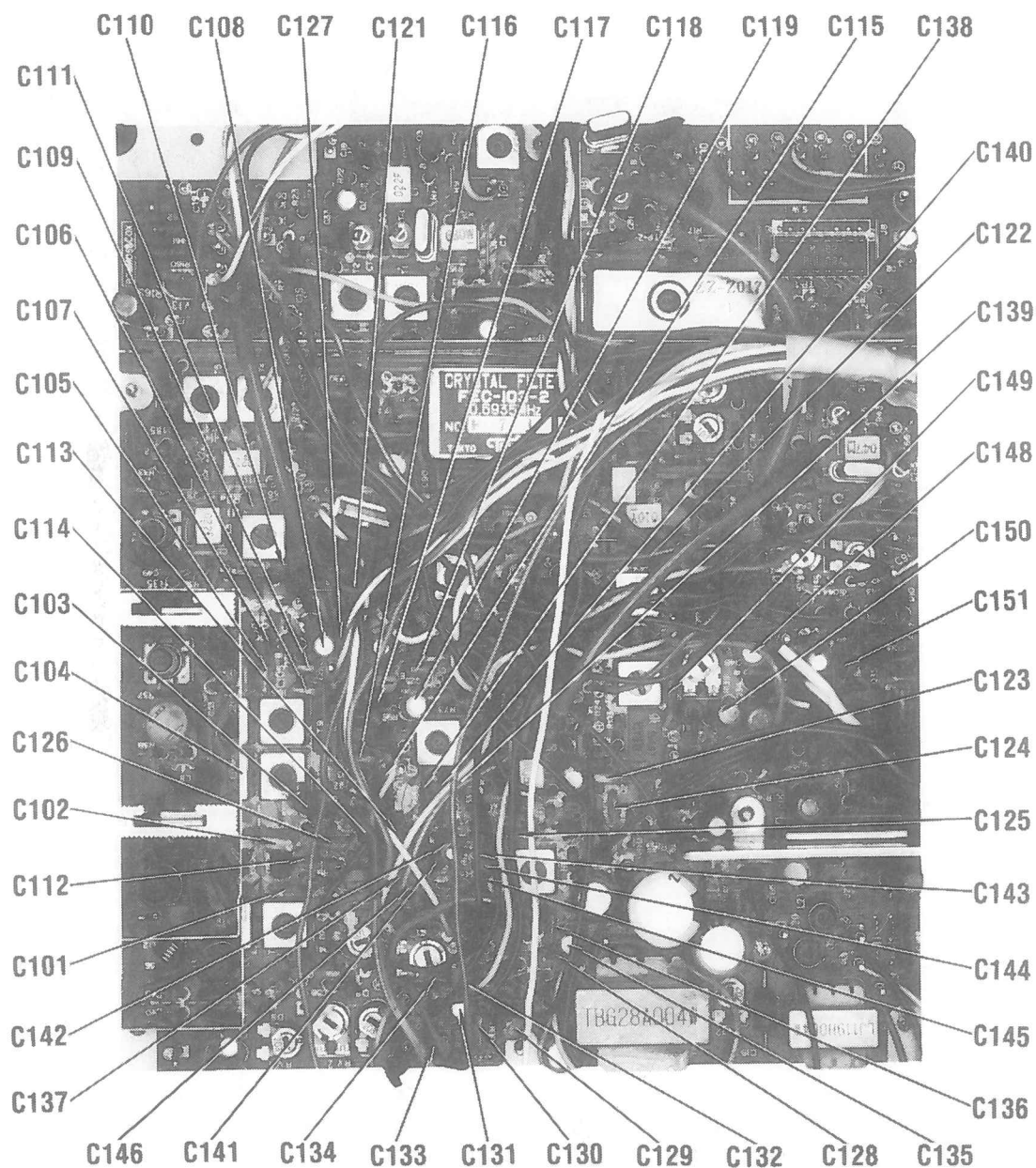
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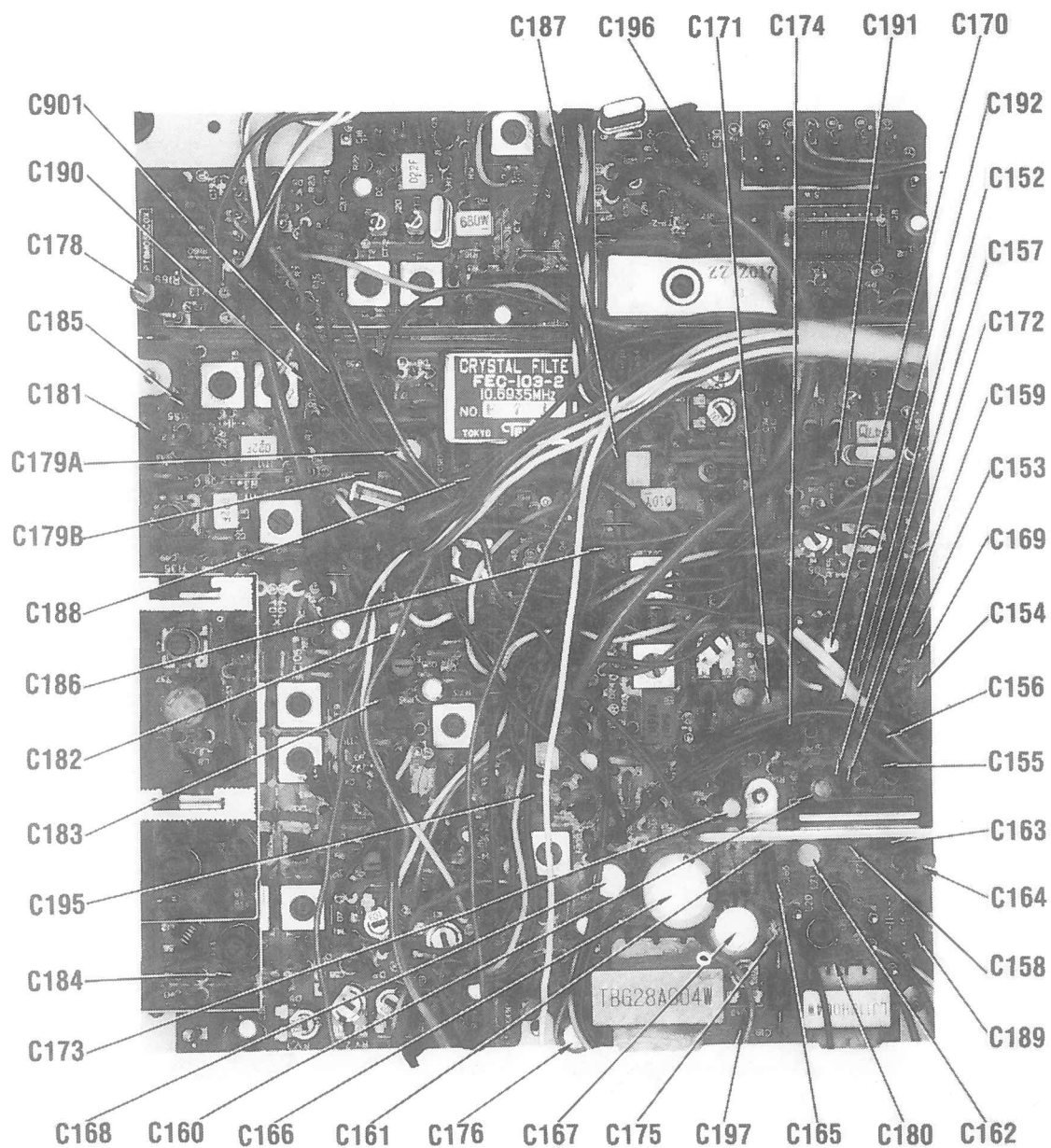
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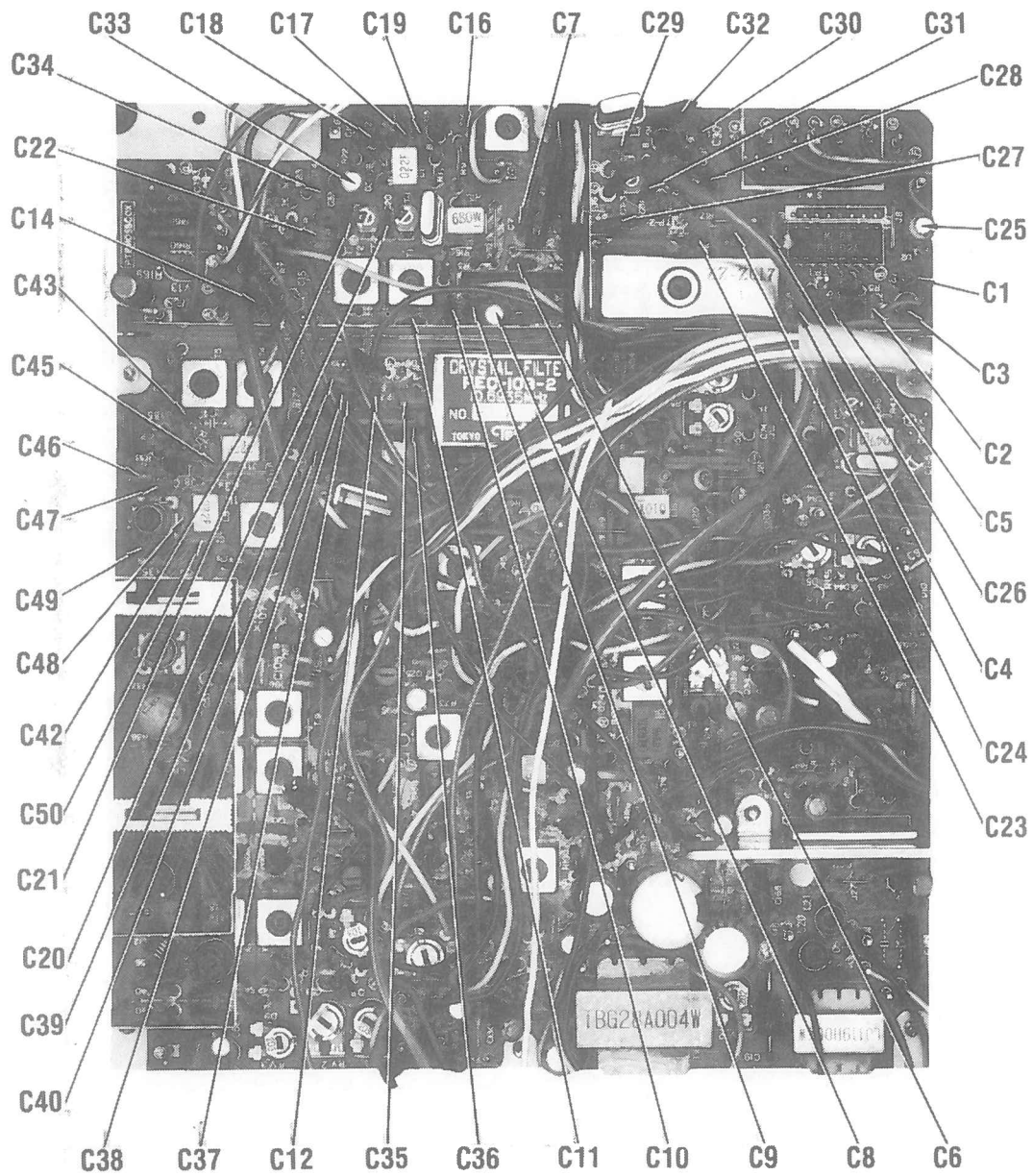
MAIN BOARD



MAIN BOARD

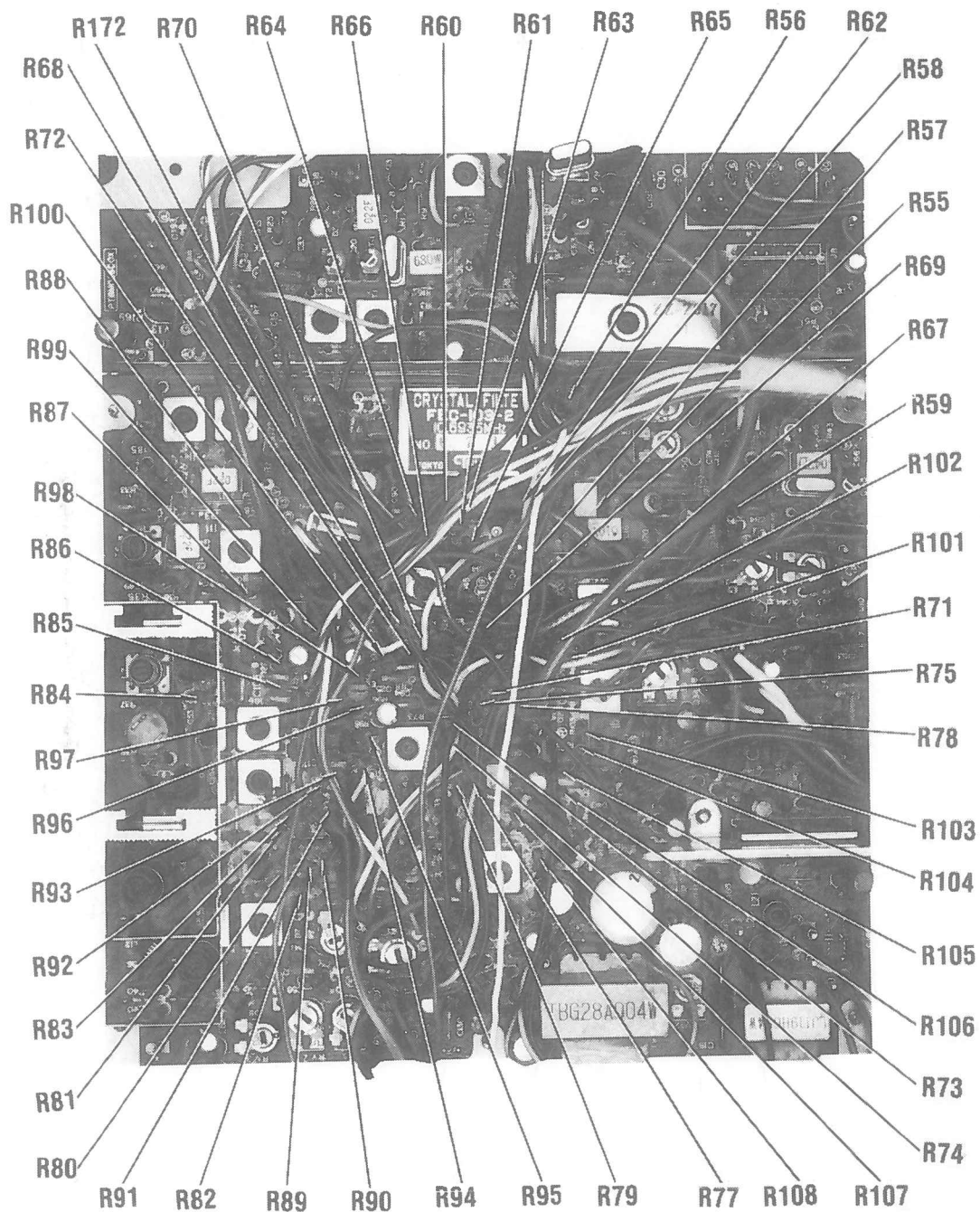


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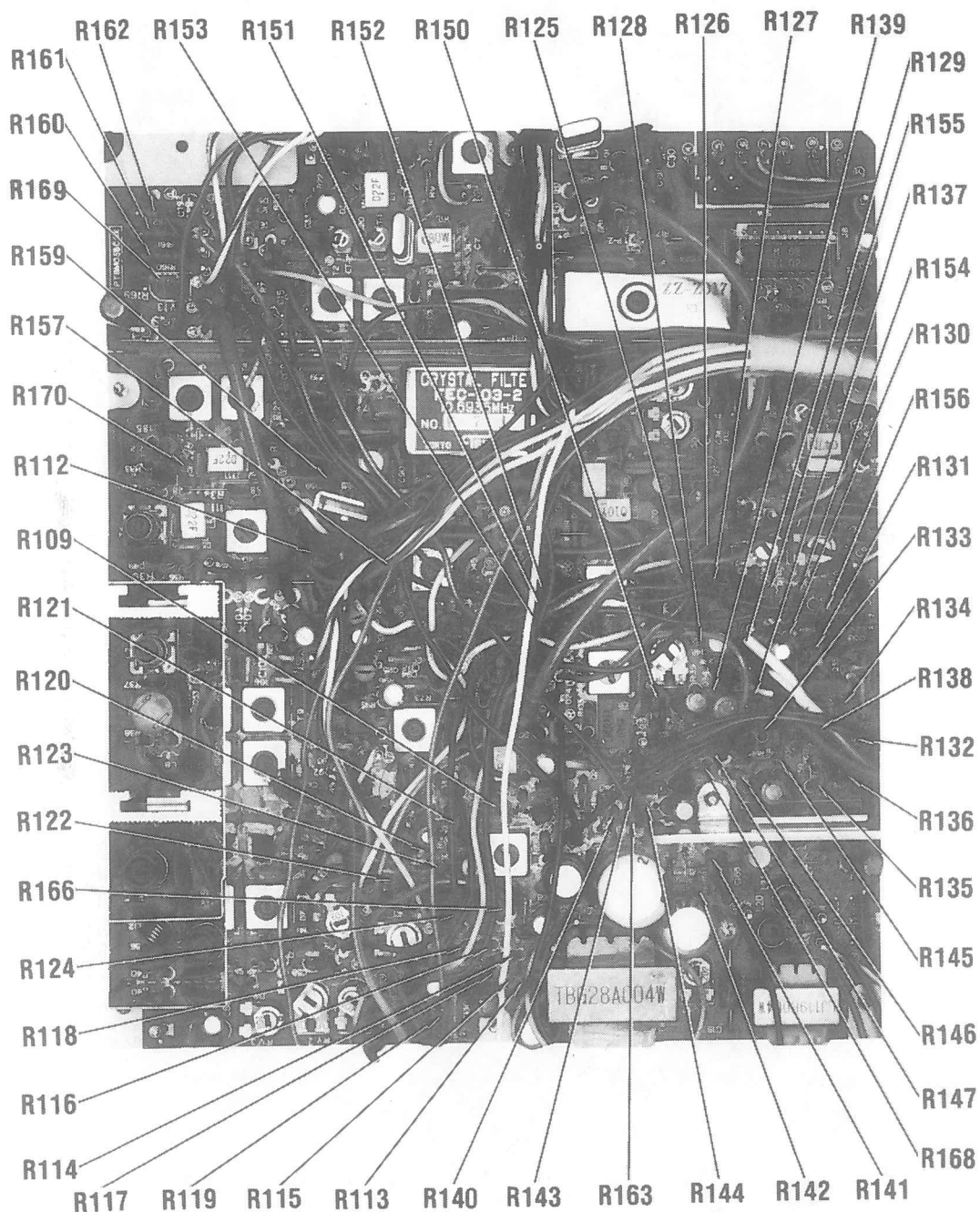
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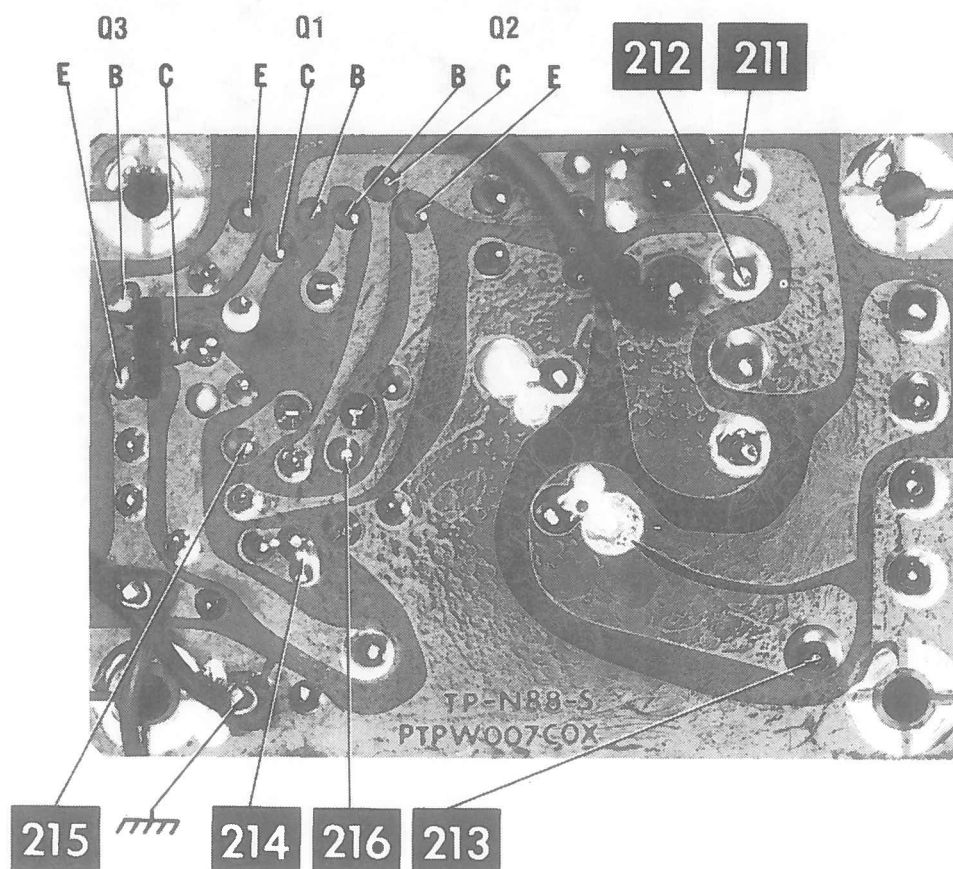
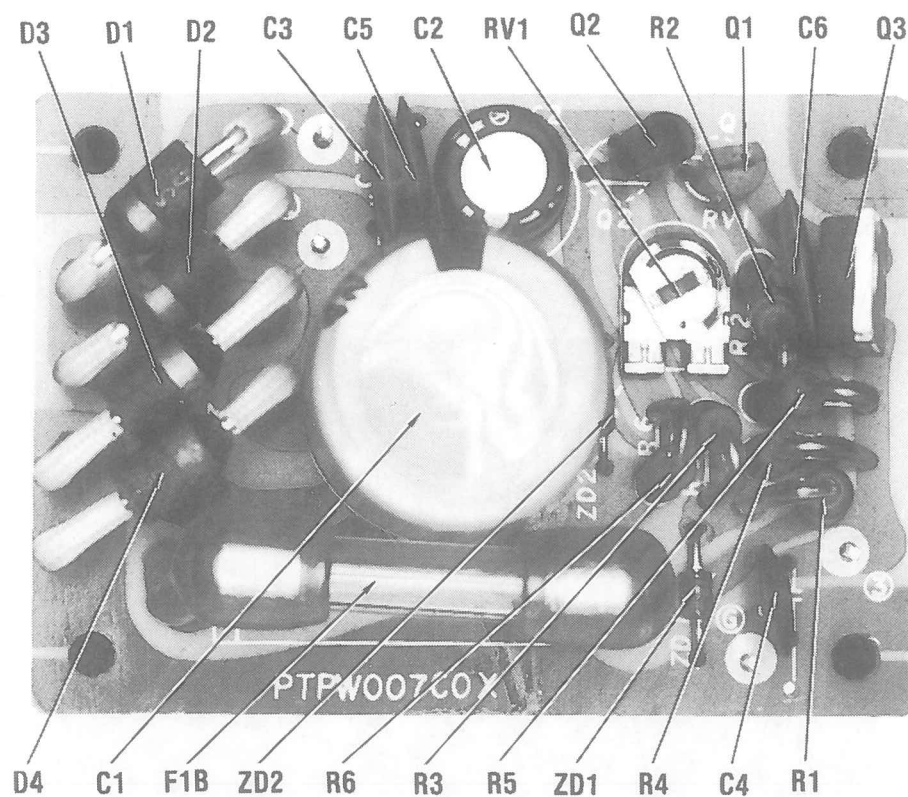


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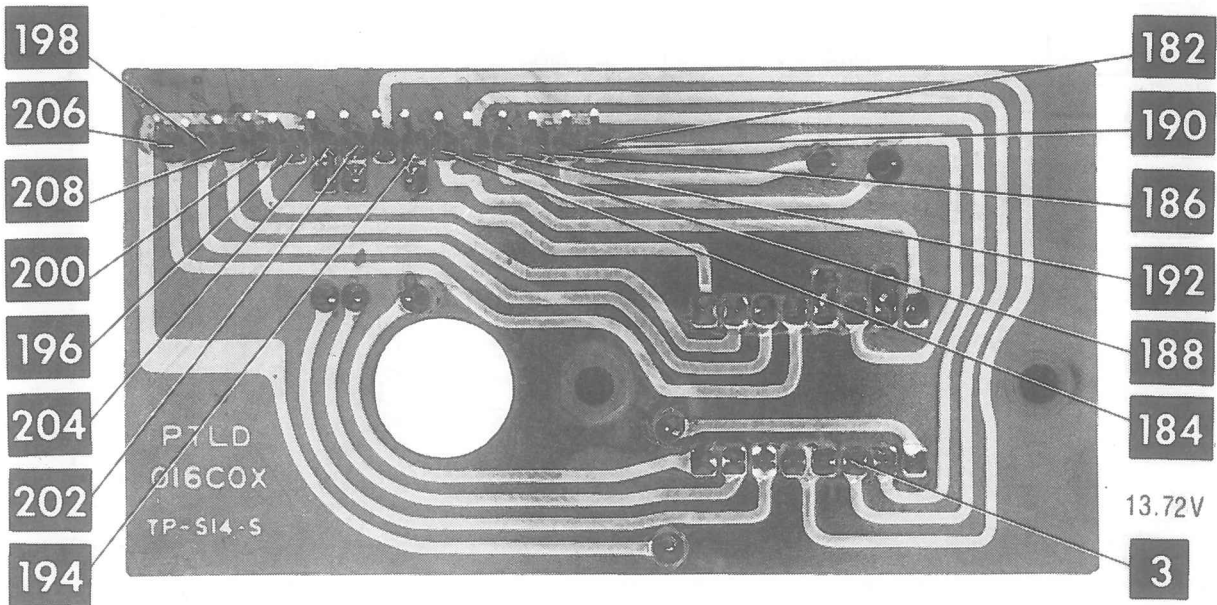




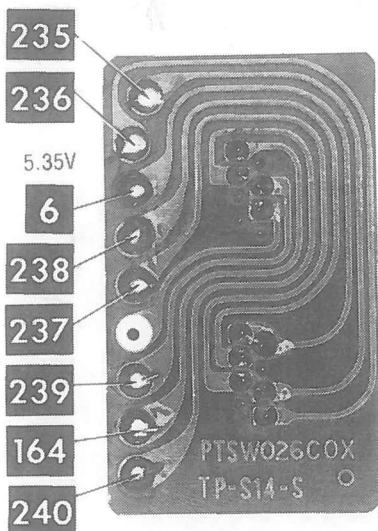
MAIN BOARD



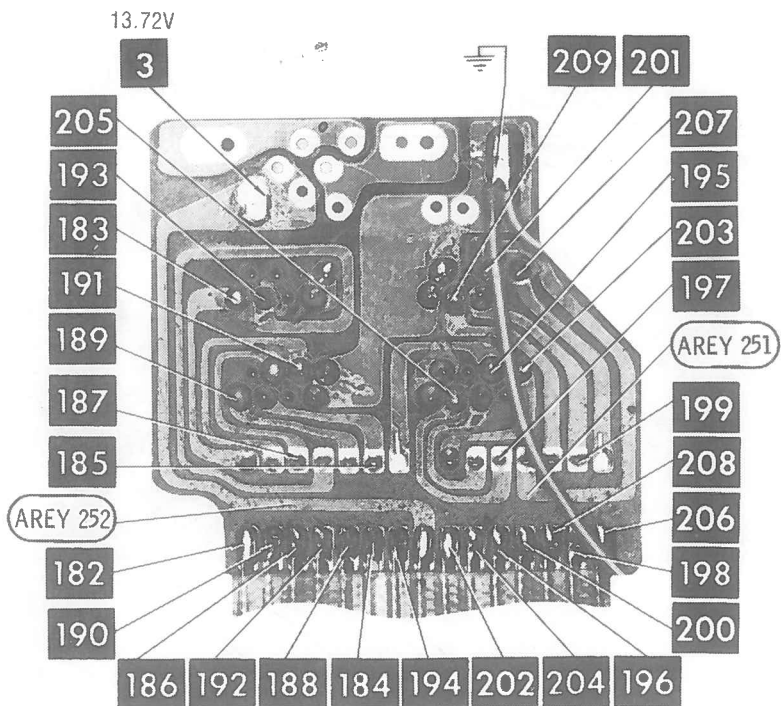
POWER SUPPLY



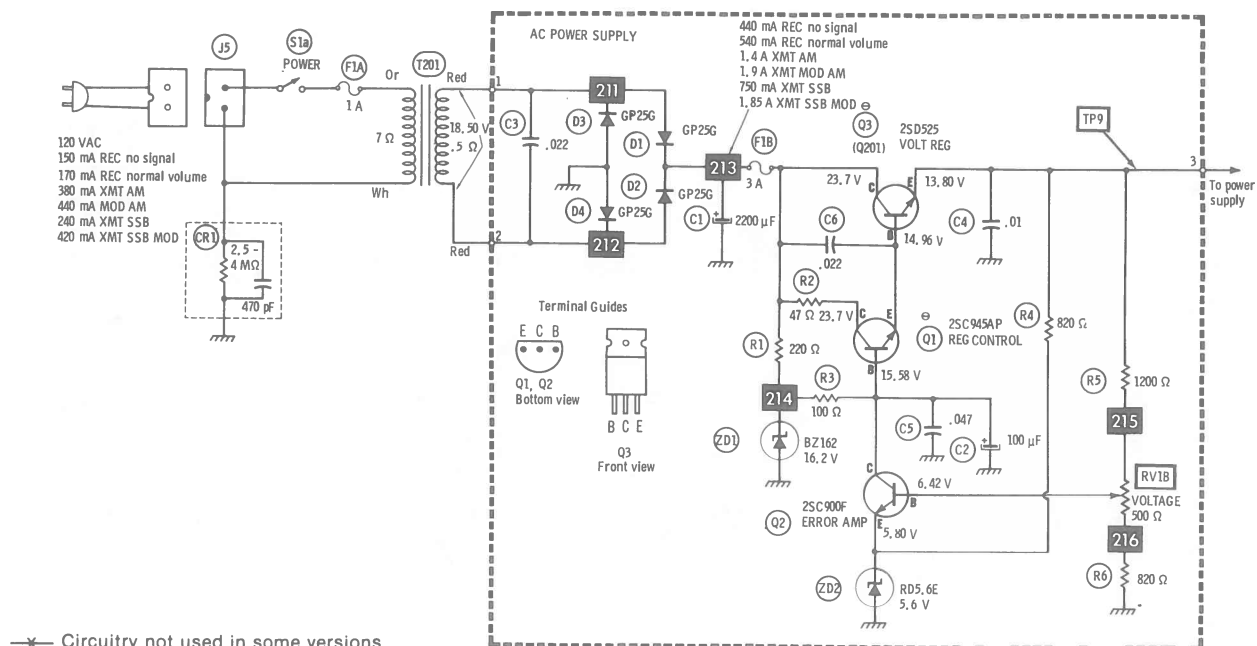
LED BOARD



CH. SELECTOR (BOT.)



CH. SELECTOR (TOP)



- *— Circuitry not used in some versions.
 - Circuitry used in some versions.
 - ⊥ Ground
 - Chassis
 - ⊕ See parts list
 - ⊗ Nominal value
 - ▽ Common tie point
- Waveforms and Voltages taken in Channel 19 with switching in receive unless noted. Item numbers in rectangles appear in the alignment/adjustment instructions. Supply voltage maintained as shown at input. Voltages measured with digital meter, no signal. Controls adjusted for normal operation. Terminal identification may not be found on unit. Resistors are 1/2W or less, 5% unless noted. Value in () used in some versions. Arrow head(s) at coils and transformers indicates accessibility of tuning slug(s).

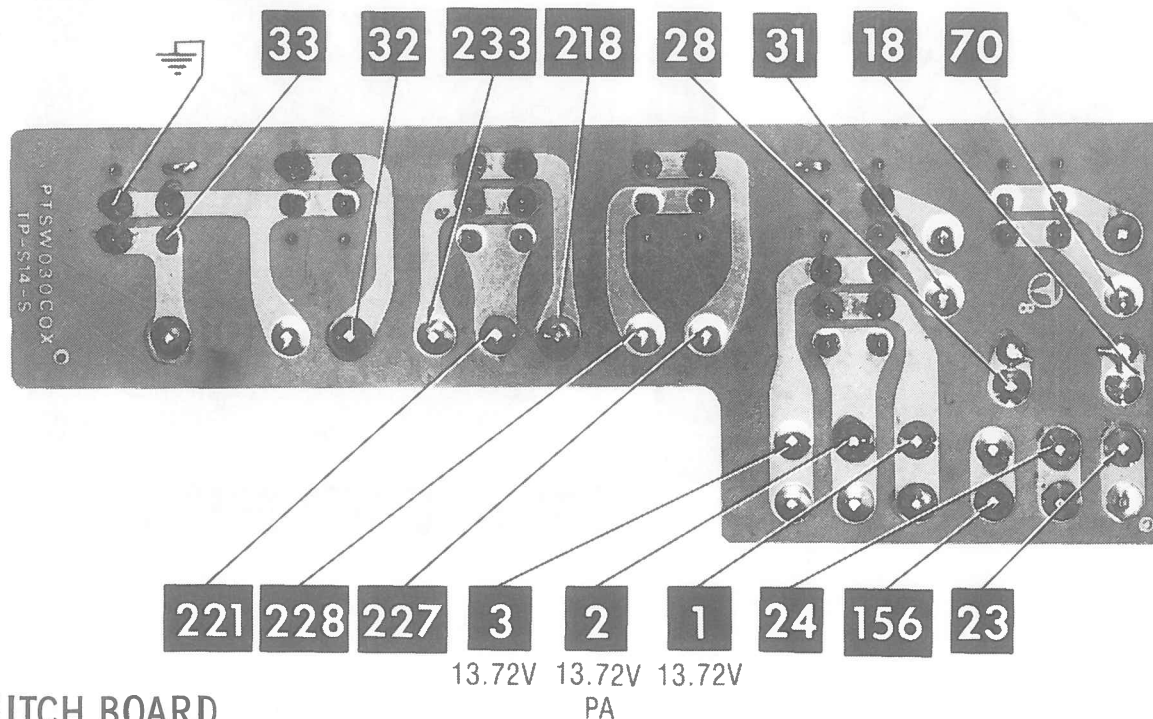
AC POWER SUPPLY SCHEMATIC

LAFAYETTE MODEL TELSAT SSB-140

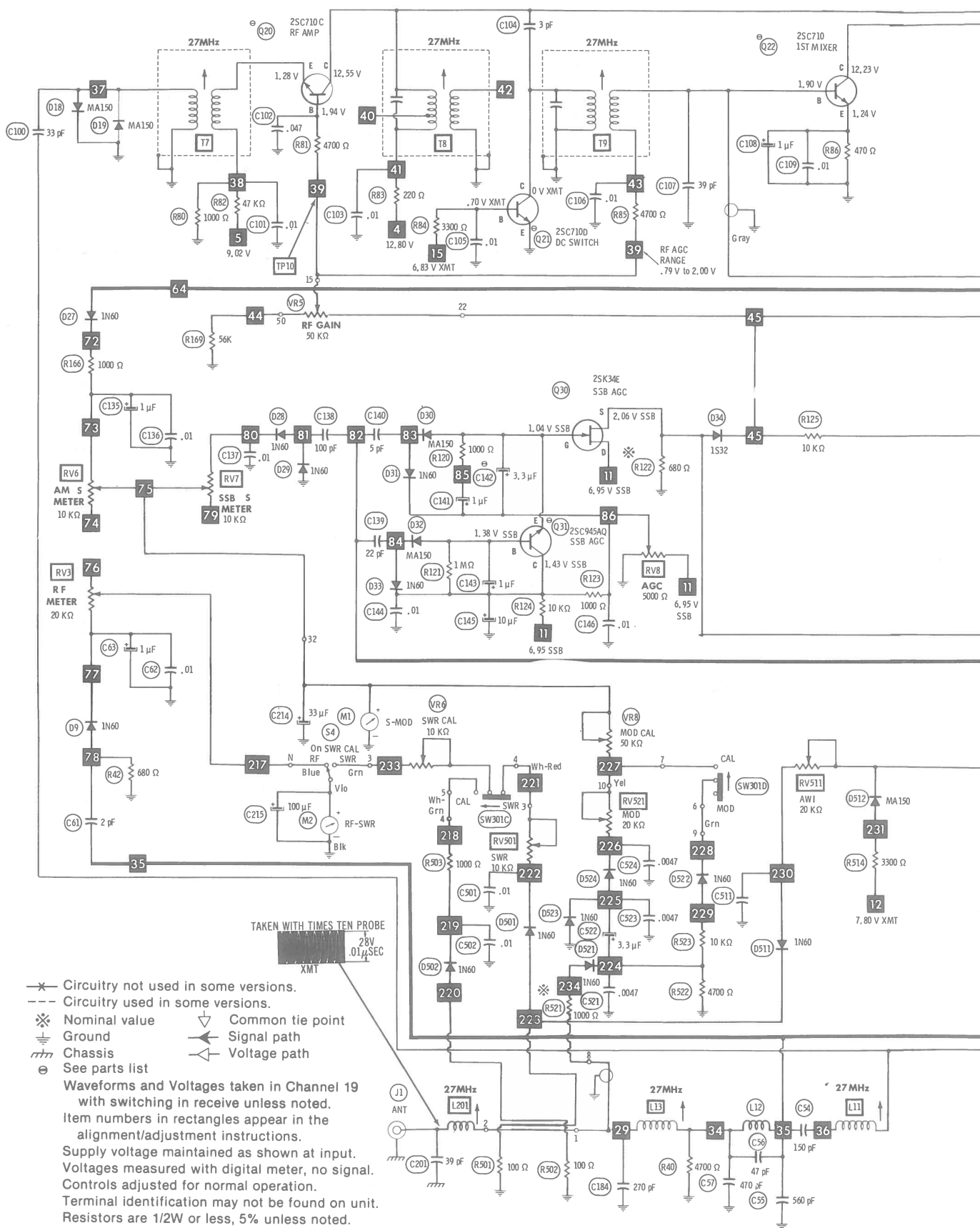
A PHOTOFACT STANDARD NOTATION SCHEMATIC WITH CIRCUITACE™

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A Howard W. Sams CIRCUITACE® Photo



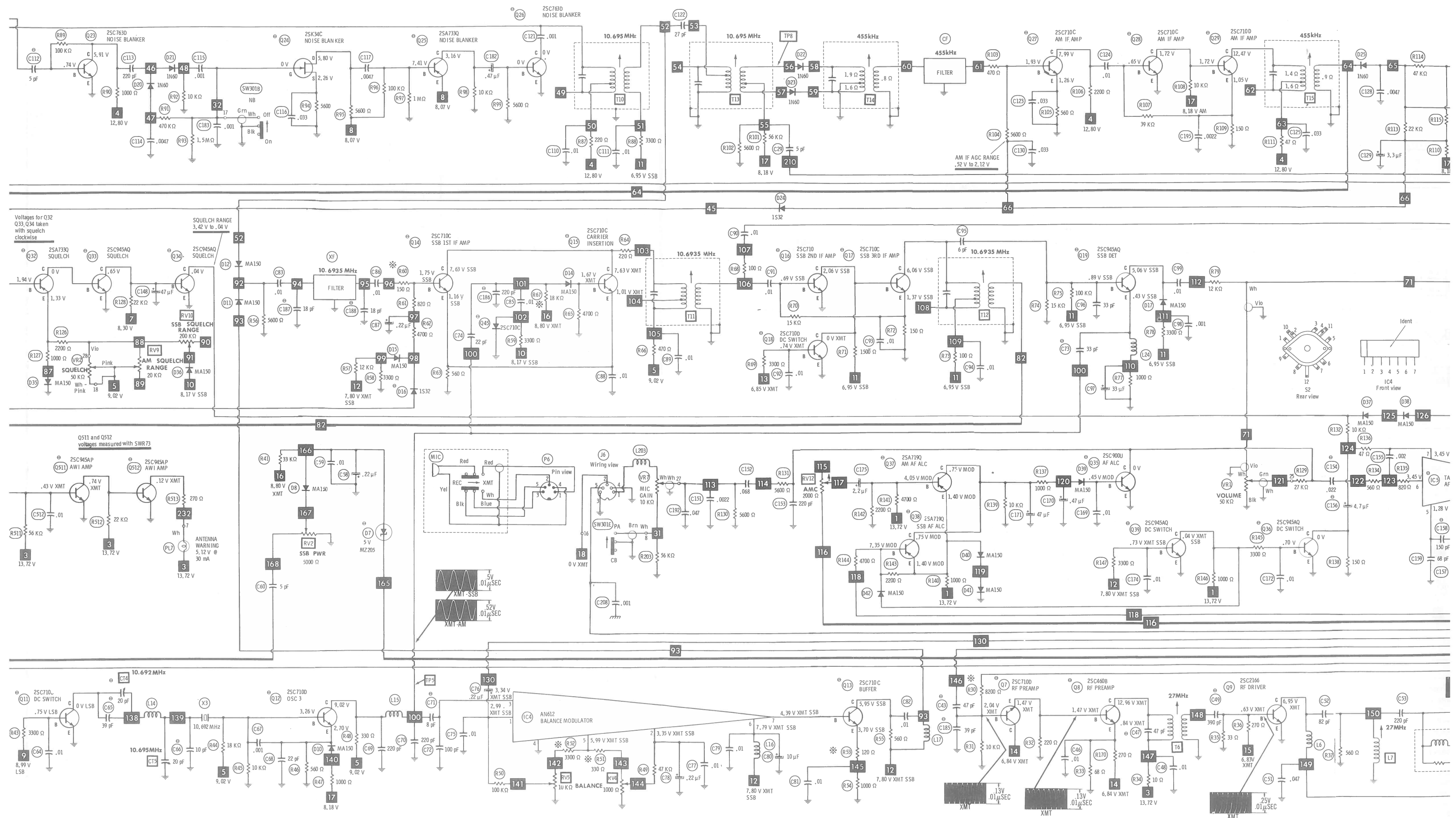
SWITCH BOARD



A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH **CIRCUITRACE**

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MAIN SCHEMATIC

PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D1	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D2	MZ205	2568-17	GEZD-5.0		REN 135		ECG135A	TM135	WEP1103	103-29006
D3	ITT310	2530-17	GE-90		REN 614		ECG614		WEP200	103-219
D4	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D5	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D6	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D7	MZ205	2568-17	GEZD-5.0		REN 135		ECG135A	TM135	WEP1103	103-29006
D8	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D9	1N60	1000-17	1N34AS	PTC207	REN 109	SK3087	ECG109	TM109/**	WEP134	103-29001
D10	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D11	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D12	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D14	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D15	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D16	1S32	2458-17	1N34AS	PTC207	REN 109	SK3087	ECG109	TM109/**	WEP134	103-29001
D17	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D18	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D19	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D20	1N60	1000-17	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D21	1N60	1000-17	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D22	1N60	1000-17	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D23	1N60	1000-17	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D24	1S32	2458-17	1N34AS	PTC207	REN 109	SK3087	ECG109	TM109/**	WEP134	103-29001
D25	1N60	1000-17	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D26	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D27	1N60	1000-17	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D28	1N60	1000-17	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D29	1N60	1000-17	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D30	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D31	1N60	1000-17	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D32	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D33	1N60	1000-17	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D34	1S32	2458-17	1N34AS	PTC207	REN 109	SK3087	ECG109	TM109/**	WEP134	103-29001
D35	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D36	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D37	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D38	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D39	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D40	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D41	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D42	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D43	GP256	2526-17	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D44	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D45	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D46	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D47	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D48	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D49	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D50	MZ310	2674-17	GE-90		REN 614		ECG614		WEP200	103-219
D51	1S1885	2528-17	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D52	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D53	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D54	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D501	1N60	1000-17	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D502	1N60	1000-17	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D511	1N60	1000-17	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D512	MA150	2675-17	GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D521	1N60	1000-17	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D522	1N60	1000-17	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D523	1N60	1000-17	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D524	1N60	1000-17	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
IC1	PLLO2A	1065-25	GEIC-317		REN 1167	SK3732	ECG1233		WEP2007	
	PLLO2				REN 1167	SK3732	ECG1167	TM1167	WEP2007	
IC2	C3001A				REN 1192	SK3445	ECG1192		WEP2120	
	C3001				REN 1192	SK3445	ECG1192		WEP2120	
IC3	TA7310P	1072-25			REN 1192	SK3445	ECG1192		WEP2120	
	C3001-0				REN 1192	SK3445	ECG1192		WEP2120	
	C3001				REN 1192	SK3445	ECG1192		WEP2120	
IC4	TA7310P	1072-25			REN 1192	SK3445	ECG1192		WEP2120	
IC5	AN612	1077-25					ECG1249			
Q1	TA7205P	1053-25	GEIC-179	PTC780	REN 1155	SK3231	ECG1155	TM1155	WEP2107	
	2SC900F	2132-17	GE-62	PTC139*	REN 199	SK3124	ECG199	TM199/**	WEP66	121-972
	2SC900U	2314-17	GE-62	PTC139*	REN 199	SK3124	ECG199	TM199/**	WEP66	121-972
	2SC900		GE-62	PTC139*	REN 199	SK3124	ECG199	TM199/**	WEP66	121-972
Q3	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
Q4	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
Q5	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
Q6	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A

LAFAYETTE MODEL TELSAT SSB-140

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

SEMICONDUCTORS (Select replacement transistor for best results) (cont)

ITEM No.	TYPE No.	MFRG. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
Q7	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q8	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC460B		GE-61*	PTC136*	REN 107	SK3122	ECG107	TM107/**	WEP460	121-29000*
Q9	2SC460		GE-61*	PTC136*	REN 107	SK3122	ECG107	TM107/**	WEP460	121-29000*
	2SC460AB	2302-17	GE-61*	PTC136*	REN 107	SK3122	ECG107	TM107/**	WEP460	121-29000*
	2SC2166	2672-17	GE-215	PTC186	REN 235	SK3197	ECG235	TM235	WEP736*	121-29039
Q10	2SC1969	2673-17	GE-216	PTC186	REN 236	SK3197	ECG236	TM236	WEP840	121-29040
Q11	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q12	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q13	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q14	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q15	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q16	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q17	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q18	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q19	2SC945QA	2121-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC945AP	2615-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC945		GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
Q20	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q21	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q22	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q23	2SC763D	2522-17	GE-61*	PTC115	REN 229*	SK3122	ECG229*	TM229*	WEP56	121-29021
	2SC763		GE-61*	PTC115	REN 229*	SK3122	ECG229*	TM229*	WEP56	121-29021
	2SK34E	2612-17	GE-FET-2	PTC161	REN 132	SK3448	ECG312	TM312	WEP920	121-756
Q24	2SK34CD	2512-17	GE-FET-2	PTC161	REN 132	SK3448	ECG312	TM312	WEP920	121-756
	2SK34		GE-FET-2	PTC161	REN 132	SK3448	ECG312	TM312	WEP920	121-756
	2SA733Q	2261-17	GE-48	PTC127	REN 294	SK3114	ECG294	TM294/**	WEP911	121-952
Q25	2SA733		GE-48	PTC127	REN 294	SK3114	ECG294	TM294/**	WEP911	121-952
	2SC763D	2522-17	GE-61*	PTC115	REN 229*	SK3122	ECG229*	TM229*	WEP56	121-29021
	2SC763		GE-61*	PTC115	REN 229*	SK3122	ECG229*	TM229*	WEP56	121-29021
Q26	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710C	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q27	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q28	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q29	2SC710D	2275-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710C	2290-17	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
	2SC710		GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A*/**	WEP710	121-29000A
Q30	2SK34E	2612-17	GE-FET-2	PTC161	REN 132	SK3448	ECG312	TM312	WEP920	121-756
	2SK34CD	2512-17	GE-FET-2	PTC161	REN 132	SK3448	ECG312	TM312	WEP920	121-756
	2SC945QA	2121-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
Q31	2SC945AP	2615-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC945		GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SA733Q	2261-17	GE-48	PTC127	REN 294	SK3114	ECG294	TM294/**	WEP911	121-952
Q32	2SA733		GE-48	PTC127	REN 294	SK3114	ECG294	TM294/**	WEP911	121-952
	2SC945QA	2121-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC945AP	2615-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
Q33	2SC945		GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC945QA	2121-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC945AP	2615-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
Q34	2SC945		GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC945QA	2121-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC945AP	2615-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
Q35	2SC945QA	2121-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC945AP	2615-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC945		GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
Q36	2SC945QP	2121-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC945AP	2615-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC945		GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
Q37	2SC945		GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SA719Q	2563-17	GE-269	PTC103*	REN 290	SK3114	ECG290	TM290/**	WEP911	121-1019

(When ordering parts, state Model, Part Number, and Description.)

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
Q38	2SA719	2563-17	GE-269	PTC103*	REN 290	SK3114	ECG290	TM290/**	WEP911	121-1019
	2SA719Q		GE-269	PTC103*	REN 290	SK3114	ECG290	TM290/**	WEP911	121-1019
Q39	2SA719	2121-17	GE-269	PTC103*	REN 290	SK3114	ECG290	TM290/**	WEP911	121-1019
	2SC945QA		GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
Q40	2SC945AP	2615-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC945		GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
Q41	2SA683R	2305-17	GE-48	PTC177	REN 294	SK3841	ECG294	TM294	WEP916	121-952
	2SA683		GE-48	PTC177	REN 294	SK3841	ECG294	TM294	WEP916	121-952
Q42	2SC1383R	2303-17	GE-47	PTC143*	REN 293	SK3849	ECG293	TM293	WEP912	121-29000
	2SC1383		GE-47	PTC143*	REN 293	SK3849	ECG293	TM293	WEP912	121-29000
Q43	2SA683R	2305-17	GE-48	PTC177	REN 294	SK3841	ECG294	TM294	WEP916	121-952
	2SA683		GE-48	PTC177	REN 294	SK3841	ECG294	TM294	WEP916	121-952
Q44	2SC1383R	2303-17	GE-47	PTC143*	REN 293	SK3849	ECG293	TM293	WEP912	121-29000
	2SC1383		GE-47	PTC143*	REN 293	SK3849	ECG293	TM293	WEP912	121-29000
Q45	2SD325	2581-17	GE-28	PTC110	REN 186	SK3197	ECG186	TM186/**	WEP745	121-29008
	2SC1398Q		GE-28	PTC110	REN 186	SK3197	ECG186	TM186/**	WEP745	121-29008
Q46	2SC1398	2615-17	GE-28	PTC110	REN 186	SK3197	ECG186	TM186/**	WEP745	121-29008
	2SC945AQ		GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
Q511	2SC945AP	2121-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC940		GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
Q512	2SC945AQ	2615-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC945AP		GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
Q512	2SC945AQ	2615-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC945		GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
Q512	2SC945AP	2121-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC945QA		GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
Q512	2SC945	2615-17	GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
	2SC945		GE-212	PTC121*	REN 199	SK3124	ECG199	TM199/**	WEP1945	121-972
POWER SUPPLY BOARD										
D1	GP25G	2526-17	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D2	GP25G	2526-17	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D3	GP25G	2526-17	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D4	GP25G	2526-17	GE-504A	PTC201	REN 116	SK3				

* Lead configuration may vary from original.
/** Also available as exact type replacement.

LAFAYETTE MODEL TELSAT SSB-140

ITEM No.	RATING	REPLACEMENT DATA				
		MFRG. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C3	.1 35V	1654-58		TDC104M050EL	QDT1-2	SD50-R109
C4	.22 35V	1658-58		TDC224M050EL	QDT1-10	SD50-R229
C5	10 16V	1655-58		TDC106M025FL	QDT1-64	SD25-109
C8	1 50V	1015-52	PC1-50	VTT1A50	QV1-11	EV-1615
C25	47 6.3V	1061-52	PC50-16	VTT47D16	QV1-73	EV-1226
C33	1 50V	1015-52	PC1-50	VTT1A50	QV1-11	EV-1615
C58	.22 35V	1658-58		TDC224M050EL	QDT1-10	SD50-R229
C63	1 50V	1015-52	PC1-50	VTT1A50	QV1-11	EV-1615
C76	.22 35V	1658-58		TDC224M050EL	QDT1-10	SD50-R229
C78	.22 35V	1658-58		TDC224M050EL	QDT1-10	SD50-R229
C80	10 16V	1043-52	PC10-25	VTT10B25	QV1-41	EV-1222
C87	.22 35V	1658-58		TDC224M050EL	QDT1-10	SD50-R229
C97	33 10V	1056-52	PC30-25	VTT33B10	EV-1225	EV-1225
C108	1 50V	1015-52	PC1-50	VTT1A50	QV1-11	EV-1615
C119	10 16V	1043-52	PC10-25	VTT10B25	QV1-41	EV-1222
C127	10 16V	1655-58		TDC106M025FL	QDT1-64	SD25-109
C129	3.3 25V		PC5-50	VTT3R3A50	QV1-25	EV-1618.1
C131	4.7 25V	1031-52	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C135	1 50V	1015-52	PC1-50	VTT1A50	QV1-11	EV-1615
C141	1 35V			TDC105M035EL		SD35-19
C142	3.3 25V		PC5-50	VTT3R3A50	QV1-25	EV-1618.1
C143	1 25V	1653-58		TDC105M035EL		SD35-19
C145	10 16V	1043-52	PC10-25	VTT10B25	QV1-41	EV-1222
C148	47 10V	1062-52	PC50-16	VTT47D16	QV1-73	EV-1226
C150	4.7 25V	1031-52	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C156	4.7 10V	1657-58		TDC475M010EL	QDT1-48	SD10-4R79
C160	33 10V	1056-52	PC30-25	VTT33B10	EV-1225	EV-1225
C162	47 16V	1063-52	PC50-16	VTT47D16	QV1-73	EV-1226
C164	1 50V	1015-52	PC1-50	VTT1A50	QV1-11	EV-1615
C166	2200 16V	1120-52	WBR2000-16*	TC1520C*	OE1-643*	TVA-1175.3*
C167	330 16V	1101-52	WBR300-35*	VTT330H16	QV1-133	EV-1245
C168	100 16V	1080-52	PC100-16	VTT100F16	QV1-95	EV-1231
C170	.47 50V	1189-52	PC1-50	VTT4R7A63	QV1-3	EV-1610
C171	47 6.3V	1061-52	PC50-16	VTT47D16	QV1-73	EV-1226
C173	1 50V	1015-52	PC1-50	VTT1A50	QV1-11	EV-1615

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

ELECTROLYTIC CAPACITORS (cont)

ITEM No.	RATING	REPLACEMENT DATA				
		MFRG. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C175	2.2 25V	1181-52	PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C176	47 16V	1063-52	PC50-16	VTT47D16	QV1-73	EV-1226
C178	33 16V	1058-52	PC30-25	VTT33D25	QV1-63	EV-1325
C179A	47 16V	1063-52	PC50-16	VTT47D16	QV1-73	EV-1226
C182	.47 50V	1189-52	PC1-50	VTT47A63	QV1-3	EV-1610
C214	33 16V	1058-52	PC30-25	VTT33D25	QV1-63	EV-1325
C215	100 10V	1077-52	PC100-10	VTT100E10	QV1-93	EV-1131
C522	3.3 25V		PC5-50	VTT3R3A50	QV1-25	EV-1618.1
C901	.22 35V	1658-58		TDC224M050FL	QDT1-10	SD50-R229
	POWER SUPPLY					
C1	2200 25V		WBR2000-25*	TC2520A*	QE1-645*	TVA-1213.5*
C2	100 25V		PC100-25	VTT100G25	QV1-97	EV-1331

*Axial replacement for radial device.

CAPACITORS

ITEM No.	RATING	MFRG. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C1	.0047 50V 10%			WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C2	.022 50V 10%			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C6	33 N150 50V 10%	1027-51			*		10TCP-Q33
C7	12 N150 50V (1)	1015-51			*		10TCP-Q12
C9	.001 50V 10%			DPMS6D1	EWFA1210	QFT2-1	1FT-D10
C10	.0012 50V 10%			DPMS6D12	PVC6212		6PS-D12
C11	2 N150 50V	1003-51			*		10TCP-V22
C12	33 N150 50V 10% (1)	1027-51			*		10TCP-Q33
C14	10 N150 50V (1)	1014-51			*		10TCP-Q10
C16	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C17	33 N150 50V 10%	1027-51			*		10TCP-Q33
C18	.001 50V 10%			DPMS6D1	EWFA1210	QFT2-1	1FT-D10
C19	220 N150 50V 10%	1061-51			*		10TCP-T22
C20	22 NPO 50V (1)		DTZ-22	NP022	CN0422		10TCC-Q22
C21	15 NPO 50V (1)		DTZ-15	NP015	CN0415		10TCC-Q15
C22	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C23	.001 50V 10%			DPMS6D1	EWFA1210	QFT2-1	1FT-D10
C24	68 N150 50V 10%	1044-51			*		10TCP-Q68
C26	.047 50V 10%			DPMS2S47	EWFA1A47	QFT2-171	1FT-S47
C27	.047 50V		UK50-503		MAG5015		
C28	.001 50V 10%			DPMS6D1	EWFA1210	QFT2-1	1FT-D10
C29	5 N150 50V	1009-51			*		10TCP-V50
C30	68 N150 50V 10%	1044-51			*		10TCP-Q68
C31	27 NPO 50V 10% (1)				CN0427		10TCC-Q27
C32	560 50V 10%		DD-561		GP356		10TS-T56
C34	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C35	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C36	150 N150 50V 10% (1)	1057-51			*		10TCP-T15
C37	82 N150 50V 10%	1050-51			*		10TCP-Q82
C38	56 N150 50V 10% (1)	1164-51			*		10TCP-Q56
C39	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C40	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C42	3 N150 50V (1)	1006-51			*		10TCP-V30
C43	47 N150 50V 10% (1)	1036-51			*		10TCP-Q47
C45	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C46	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C47	47 N150 50V 10% (1)	1036-51			*		10TCP-Q47
C48	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C49	390 50V 10% (1)						
C50	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C51	.047 50V 10%			DPMS2S47	EWFA1A47	QFT2-171	1FT-S47
C52	82 N150 50V 10%	1050-51			*		10TCP-Q82
C53	220 N150 50V 10%	1061-51			*		10TCP-T22
C54	150 N150 50V 10%	1057-51			*		10TCP-T15
C55	560 50V 10%		DD-561		GP356		10TS-T56
C56	47 N150 50V 10%	1036-51			*		10TCP-Q47
C57	470 50V 10%		DD-471	GP470	GP347		10TS-T47
C59	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C60	5 N150 50V 10%	1009-51			*		10TCP-V50
C61	2 N150 50V	1003-51			*		10TCP-V22
C62	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C64	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C65	39 NPO 50V 10% (1)				CN0439		10TCC-Q39
C66	10 NPO 50V (1)		DTZ-10	NP010	CN0410		10TCC-Q10
C67	.001 50V 10%			DPMS6D1	EWFA1210	QFT2-1	1FT-D10
C68	22 N150 50V	1020-51			*		10TCP-Q22
C69	220 N150 50V 10%	1061-51			*		10TCP-T22
C70	220 N150 50V 10%	1061-51			*		10TCP-T22
C71	8 N150 50V (1)	1012-51			*		10TCP-V82
C72	100 N150 50V 10%	1054-51			*		10TCP-T10
C73	33 N150 50V 10% (1)	1027-51			*		10TCP-Q33
C74	22 N150 50V 10%	1020-51			*		10TCP-Q22
C75	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C77	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C79	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C81	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C82	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C83	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C84	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

CAPACITORS (cont)

ITEM No.	RATING	MFG. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C85	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C86	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C88	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C89	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C90	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C91	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C92	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C93	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C94	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C95	6 N150 50V	1010-51			*		10TCP-V68
C96	33 N150 50V 10%	1027-51			*		10TCP-Q33
C98	.001 50V 10%			DPMS6D1	EWFA1A210	QFT2-1	1FT-D10
C99	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C100	33 N150 50V 10%	1027-51			*		10TCP-Q33
C101	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C102	.047 50V 10%			DPMS2S47	EWFA1A147	QFT2-171	1FT-S47
C103	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C104	3 N150 50V	1006-51			*		10TCP-V30
C105	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C106	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C107	39 N150 50V 10%	1031-51			*		10TCP-Q39
C109	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C110	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C111	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C112	5 N150 50V (1)	1009-51			*		10TCP-V50
C113	220 N150 50V 10%	1061-51			*		10TCP-T22
C114	.0047 50V 10%			WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C115	.001 50V 10%			DPMS6D1	EWFA1A210	QFT2-1	1FT-D10
C116	.033 50V 10%			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C117	.0047 50V 10%			WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C118	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C121	.001 50V 10%			DPMS6D1	EWFA1A210	QFT2-1	1FT-D10
C122	27 N150 50V	1023-51			*		10TCP-Q27
C123	.033 50V 10%			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C124	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C125	.033 50V 10%			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C126	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C128	.0047 50V 10%			WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C130	.033 50V 10%			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C132	.0047 50V 10%			WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C133	220 50V 10%		DD-221		GP322		10TS-T22
C134	.0082 50V 10%			WMF1D82	EWFA1A282	QFT2-85	1FT-D82
C136	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C137	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C138	100 N150 50V 10%	1054-51			*		10TCP-T10
C139	22 N150 50V	1020-51			*		10TCP-Q22
C140	5 N150 50V	1009-51			*		10TCP-V50
C144	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C146	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C149	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C151	.0022 50V 10%			DPMS6D22	M192P2229R8	QFT2-27	1FT-D22
C152	.068 50V 10% (1)			WMF1S68	EWFA1A168	QF1-195	1PB-S68
C153	220 50V 10%		DD-221		GP322		10TS-T22
C154	.022 50V 10% (1)			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
	.002 50V			DPMS6D22	M192P2229R8	QFT2-27	1FT-D22
C155	.0022 50V 10%			DPMS6D22	M192P2229R8	QFT2-27	1FT-D22
C157	68 50V		DD-680		GP468		10TS-Q68
C158	150 50V 10% (1)			GP68	GP468		10TS-Q68
C159	68 50V		DD-680		GP468		10TS-Q68
C161	.068 50V 10%			WMF1S68	EWFA1A168	QF1-195	1PB-S68
C163	220 50V 10%		DD-221		GP322		10TS-T22
	100 50V		DD-101		GP310		10TS-T10
C165	.047 50V		UK50-503		MAG5015		
C169	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C172	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C174	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C179B	.047 50V		UK50-503		MAG5015		
C180	.047 50V		UK50-503		MAG5015		
C181	.047 50V		UK50-503		MAG5015		
C183	.001 50V 10%			DPMS6D1	EWFA1A210	QFT2-1	1FT-D10
C184	270 50V 10%		DD-271		GP327		10TS-T27
C185	39 N150 50V 10% (1)	1031-51			*		10TCP-Q39
C186	220 N150 50V 10%	1061-51			*		10TCP-T22
C187	18 N150 50V (1)	1018-51			*		10TCP-Q18
C188	18 N150 50V (1)	1018-51			*		10TCP-Q18
C189	.047 50V		UK50-503		MAG5015		
C190	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C191	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C192	.047 50V 10%			DPMS2S47	EWFA1A147	QFT2-171	1FT-S47
C195	.0022 50V 10%			DPMS6D22	M192P2229R8	QFT2-27	1FT-D22
C196	82 50V 10% (1)						
C197	.0022 50V				GP222		10TS-D22
C198							
C201	39 N150 50V 10%	1031-51			*		10TCP-Q39
C202	.01 50V		UK50-103		MAG5011		
C203	.01 50V		UK50-103		MAG5011		
C204	.001 50V		DD-102		GP210		10TS-D10
C205	.047 50V		UK50-503		MAG5015		
C206	.047 50V		UK50-503		MAG5015		
C207	.01 50V		UK50-103		MAG5011		
C208	.001 50V		DD-102		GP210		10TS-D10
C209	.01 50V		UK50-103		MAG5011		
C210	.047 50V		UK50-503		MAG5015		
C211	.047						
C212	.047						
C213	.01 50V		UK50-103		MAG5011		
C216	.01 50V		UK50-103		MAG5011		
C217	220 50V 10%		DD-221		GP322		10TS-T22

LAFAYETTE MODEL TELSAT SSB-140

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
C501	.01 50V 10%		UK50-103		MAG5011		
C502	.01 50V 10%		UK50-103		MAG5011		
C511	.01 50V 10%		UK50-103		MAG5011		
C512	.01 50V 10%			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C521	.0047 50V 10%			WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C523	.0047 50V 10%			WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C524	.0047 50V 10%			WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C902	.047						
CT1	20pF	1099-57					
CT2	20pF	1099-57					
CT3	20pF	1099-57					
CT4	25pF	5176-57					
CT5	20pF	1099-57					
	POWER SUPPLY						
C3	.022 50V		DC-253	HGP025	TA125		TG-S25
C4	.01 50V		UK50-103		MAG5011		
C5	.047 50V		UK50-503		MAG5015		
C6	.022 50V		DC-253	HGP025	TA125		TG-S25

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.
(1) Value varies, replace with original value.

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
RV1A	Bias	100	2959-13			
RV1B	Voltage	500				U260R501B
RV2	SSB Power	5000	2781-13			U260R502B
RV3	RF Meter	20K	2868-13			U260R253B
RV4	Balance	1000	2960-13			U260R102B
RV5	Balance	10K	2716-13			U260R103B
RV6	AM S Meter	20K	2868-13			U260R253B
	AM S Meter	10K				
RV7	SSB S Meter	10K	2716-13			U260R103B
RV8	AGC	5000	2781-13			U260R502B
RV9	AM Squelch Range	20K	2868-13			U260R253B
RV10	SSB Squelch Range	200K	2715-13			U260R254B
RV11	SSB Mic Gain	500				U260R501B
RV12	AMC	2000	2961-13			U260R252B
RV501	SWR	10K				X260R103B(2)
RV511	AWI	20K				X260R253B(2)
RV521	MOD	20K				X260R253B(2)
VR1	Volume	50K	1895-11			
VR2	Squelch	50K	1895-11			
VR3	Fine Tune	50K	1895-11			
VR4	AM Power	6 10W	1897-11			
VR5	RF Gain	50K	1833-11			
VR6	SWR Cal/Sw	10K	RV-NC1CJB01			
VR7	Mic Gain	10K	1898-11			
VR8	Mod Cal	50K	1835-11			

(2) Cut off one of the end terminals and bend to fit P.C. board.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		MFR. PART No.	WORKMAN PART No.			MFR. PART No.	WORKMAN PART No.
AREY251	Resistor Array	(1)		AREY252	Resistor Array	(1)	

(1) Consists of seven 1800 ohm resistors.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke (2.2uH)	2874-23	022F	70F226A1	
L2	RF Choke (68uH)	2873-23	680W		
L3	RF Choke (.75uH)	3014-23			
L4	RF Choke (2.2uH)	2874-23	022F	70F226A1	
L5	RF Choke (2.2uH)	2874-23	022F	70F226A1	
L6	RF Choke				
L7	RF Driver (27MHz)	3015-23			
L8	RF Choke (.75uH)	3016-23			
L9	RF Choke (.75uH)	2517-23			
L10	RF Choke (.75uH)	3016-23			
L11	Loading Final (27MHz)	3017-23			
L12	Pi Filter (.11uH)	3018-23			
L13	Antenna Matching (27MHz)	3019-23			
L14	RF Choke (4.7uH)	3020-23	047M		
L15	RF Choke (2.2uH)	2874-23	022F	70F226A1	
L16	RF Choke (1uH)	3000-23	010Y		
L17	RF Choke (68uH)	2873-23	680W		
L18	RF Choke (1uH)	2746-23			
L19	RF Choke (68uH)	2873-23			
L20	RF Choke (1.15uH)	3021-23	680W		

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

COILS (RF-IF) (cont)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L21	RF Choke (1.15uH)	3021-23	680W	74F226AP 74F226AP 74F226AP 74F226AP 74F226AP	
L22	RF Choke (.75uH)	2517-23			
L23	RF Choke (.75uH)	2517-23			
L24	RF Choke (.68uH)	2873-23			
L201	RF Choke (.1uH)	3023-23			
L202	RF Choke (1.95uH)	2342-23			
L203	RF Choke (1.95uH)	2342-23			
L204	RF Choke (1.95uH)	2342-23			
L205	RF Choke (1.95uH)	2342-23			
L206	RF Choke (1.95uH)	2342-23			
T1	VCO/Mixer (38.100MHz)	2279-24			
T2	VCO/Mixer (37.660MHz)	2301-24			
T3	Oscillator (20.1MHz)	2300-24			
T4	Mixer/RF ALC (27MHz)	2329-24			
T5	Mixer/RF ALC (27MHz)	2330-24			
T6	RF Preamp (27MHz)	2331-24			
T7	Rec Antenna (27MHz)	2266-24			
T8	RF Amp (27MHz)	2916-23	10LA022S		
T9	RF Amp (27MHz)	2916-23			
T10	AM IF (10.695MHz)	2334-24			
T11	SSB IF (10.6935MHz)	2335-24			
T12	SSB IF (10.6935MHz)	2335-24			
T13	AM IF (10.695MHz)	2336-24			
T14	AM IF (455kHz)	2337-24			
T15	AM IF (455kHz)	2338-24			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
CH	1.9A	.24	3.3mH	3022-23 LJ119H004W(1)			(1) Number on unit.

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T201	120V AC @ .44A AC	18.50V AC @ 3.2A AC @ 1.9A DC	1928-15 TP-H68U004Y(1)		PCB-5	(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T16	32	8	1927-15 TBG28A004W(1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	3 5/8" PM, 8 Ohms	1363-36	3A0528R	

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA							
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	DEVICE
F1A	1A Quick Acting	3236-20	2416-19	AGC1	HKP	312001	342013AL	150145	FG1-2
F1B	3A Quick Acting			GJV1	HRK	318001			FG3-2
F1C	3A Quick Acting			AGC3		312003			

LAFAYETTE MODEL TELSAT SSB-140

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF	Filter	1430-35	Ceramic (455kHz)
CR1	Component Combination	1615-58	
J1	Jack	2389-19	Antenna, 2 Pin (Coaxial)
J2	Jack	2063-19	PA, 3 Pin
J3	Jack	2390-19	Phone, 3 Pin
J4	Jack	2391-19	DC Power, 2 Pin
J5	Jack	2194-19	AC Power, 2 Pin
J6	Jack	2374-19	Microphone, 5 Pin
J7	Jack	2513-19	Receive
LED301	LED	2713-17	Tens & Units (Each Segment Supplied With 1.87V @ 6.5mA)
M1	Meter	1239-27	Signal-Modulation
M2	Meter	1263-27	RF-SWR
P6	Plug		Microphone
PL1	Lamp	6048-20	RF-SWR Meter (5.68V @ 32mA)
PL2	Lamp	6048-20	RF-SWR Meter (5.68V @ 32mA)
PL3	Lamp	6049-20	Signal-Modulation (5.68V @ 32mA)
PL4	Lamp	6049-20	Signal-Modulation (5.68V @ 32mA)
PL5	Lamp	6050-20	On Air (5.02V @ 30mA)
PL6	Lamp	6051-20	Receive (4.80V @ 32mA)
PL7	Lamp	5765-20	Antenna Warning (AWI) (5.12V @ 30mA)
S1A	Switch	2206-14	AC Power
S2	Switch	2032-14	AM/USB/LSB (Rotary)
S4	Switch		On/SWR CAL (Part of VR6)
S5	Switch	2581-22	AC/DC (Actuated by AC Plug)
	Switch		XMT/REC (Part of Microphone)
SW1A	Switch	2325-14	Channel Selector
SW1B	Switch	2325-14	Channel Selector
SW301A	Switch	2324-14	ANL On/Off (Gang, Six Switches)
SW301B	Switch	2324-14	On/Off (Gang, Six Switches)
SW301C	Switch	2324-14	CAL/SWR (Gang, Six Switches)
SW301D	Switch	2324-14	CAL/Modulation (Gang, Six Switches)
SW301E	Switch	2324-14	PA/CB (Gang, Six Switches)
SW301F	Switch	2324-14	Tone Hi/Lo (Gang, Six Switches)
X1	Crystal	1427-35	(10.0525MHz)
X2	Crystal	1420-35	(10.240MHz)
X3	Crystal	1428-35	(10.692MHz)
XF	Filter	1429-35	Crystal (10.6935MHz)
	Cord	1287-38	AC Assembly
	Cord	1344-38	DC Assembly
	P.C. Board	1958-16	AWI/SWR
	P.C. Board	1957-16	Channel
	P.C. Board	1956-16	LED Switch
	P.C. Board	1955-16	LED
	P.C. Board	1960-16	Main
	P.C. Board	1959-16	Power
	P.C. Board	1954-16	Push Switch

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA						
	MFGR. PART No.	GC PART No.	GC NOISE CANCEL	GC POWER	GC CONNECTOR	GC Red	GC Shield	GC Yellow	GC Blue	GC White	GC Black
MIC	1093-34	18-032	18-034	18-010	18-105	1	4	2	5	NC	3

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
Case, Bottom	2062-80	Knob, Power Switch	2086-18
Case, Top	2061-80	Knob, Push Switch	2182-18
Escutcheon Assembly	2060-80	Knob, VR	2085-18
Panel, Front	2059-80	Panel, Rear	2063-80
Knob, Channel	2084-18		

WIRING DATA

Cable (Speaker)(Unshielded).....	Use BELDON No. 8782 (AWG24)(4 colors)
Shielding Strap.....	Use BELDON No. 8660 (3/16" width)
Hook-up Wire (General Use).....	Use BELDON No. 8524 (AWG22)(13 colors)
Hook-up Wire (Shielded).....	Use BELDON No. 8401 (Braided Shield)(1 conductor)(AWG25)
	Use BELDON No. 8421 (Spiral Shield)(1 conductor)(AWG25)
	Use BELDON No. 8737 (Spiral Shield)(2 conductor)(AWG22)
Coax (Transmission Line).....	Use BELDON No. 8216 (RG-174/U, 50 ohms)
Microphone Cable (Coiled).....	Use BELDON No. 9467 (5 conductor-1 shielded)(6 ft.)(AWG28)
AC Power Cord.....	Use BELDON No. 17106 (6 ft.)(2 conductors)
AC Power Cord.....	Use BELDON No. 17109 (9 ft.)(2 conductors)