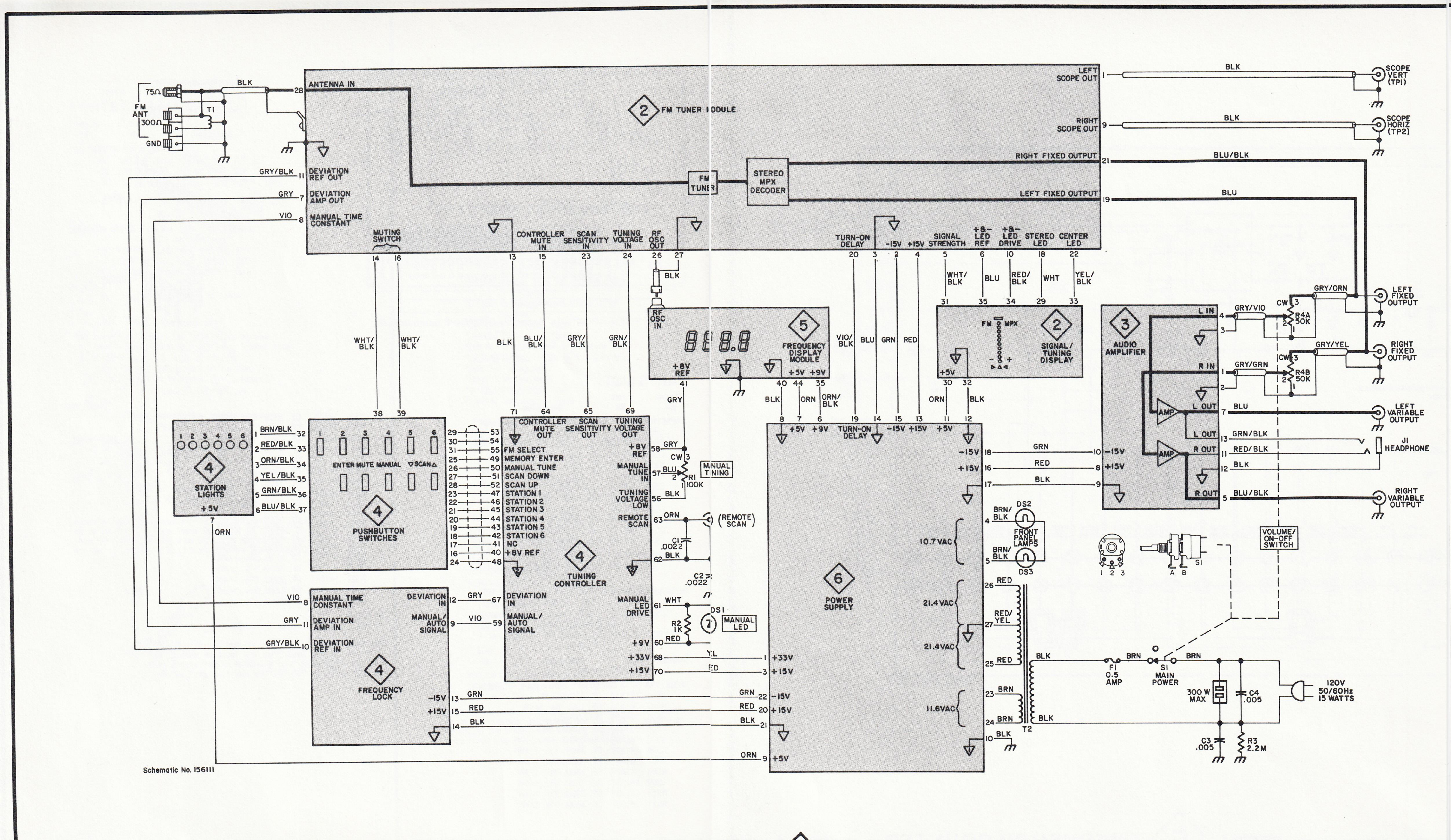
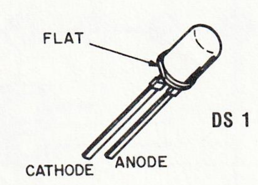


SECTION 1 INTERCONNECTION DIAGRAM

PARTS LIST

Symbol No.	Part No.	Description
CAPACITORS (CD = Ceramic Disc)		
C1	061250	CD, .0022μF, 50V, Z5P
C2	061250	CD, .0022μF, 50V, Z5P
C3	061175	CD, .005μF, +80−20%, 150V, UL/CSA
C4	061175	CD, .005μF, +80−20%, 150V, UL/CSA
LIGHTING DEVICES (LED = Light Emitting Diode, INC = Incandescent)		
*DS1	070093	LED, Red, HP5082-4658
*DS2	058069	INC, 6.3V, 200mA, 8610
*DS3	058069	INC, 6.3V, 200mA, 8610
FUSES		
*F1	089037	Fuse, SB, 0.5A, 125V
JACKS		
*J1	117088	Headphone Jack
RESISTORS (CF = Carbon Film, POT = Potentiometer)		
*R1	134401	POT, Manual Tuning Control, 100k
R2	141049	CF, 1kΩ, 5%, 1/4W
R3	141203	CF, 2.2MΩ, 5%, 1/2W
*R4/S1	134379	POT/Switch, Volume Control/ Power On-Off, 50k/50k
SWITCHES		
*S1/R4	134379	POT/Switch, Volume Control/ Power On-Off, 50k/50k
TRANSFORMERS		
*T1	045267	Balun
*T2	159165	Power
MISCELLANEOUS		
	117008	AC Receptacle, Red
	170119	Line Cord, 18 ga.

* Parts marked with an asterisk (*) are replacement parts stocked by our Service Department and must be ordered from McIntosh. These parts must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.



DS 1

FRONT PANEL and TRIM

Part No.	Description
*018155	Top Panel Rail, Secure using 100007 Screws
*043410	Bottom Panel Rail, Secure Using 100103 Screws
*018204	End Cap, Secure Using 101035 Screws
*045896	Front Panel, Glass
*045897	Front Panel, Complete
*045791	Window Bezel, w/adhesive
*045968	Pushbutton Bezel, w/adhesive
*044775	Tuning Knob
*090170	Volume Knob
*017269	Pushbutton, Black
*104017	Felt Washer, Knob

INSTALLATION HARDWARE

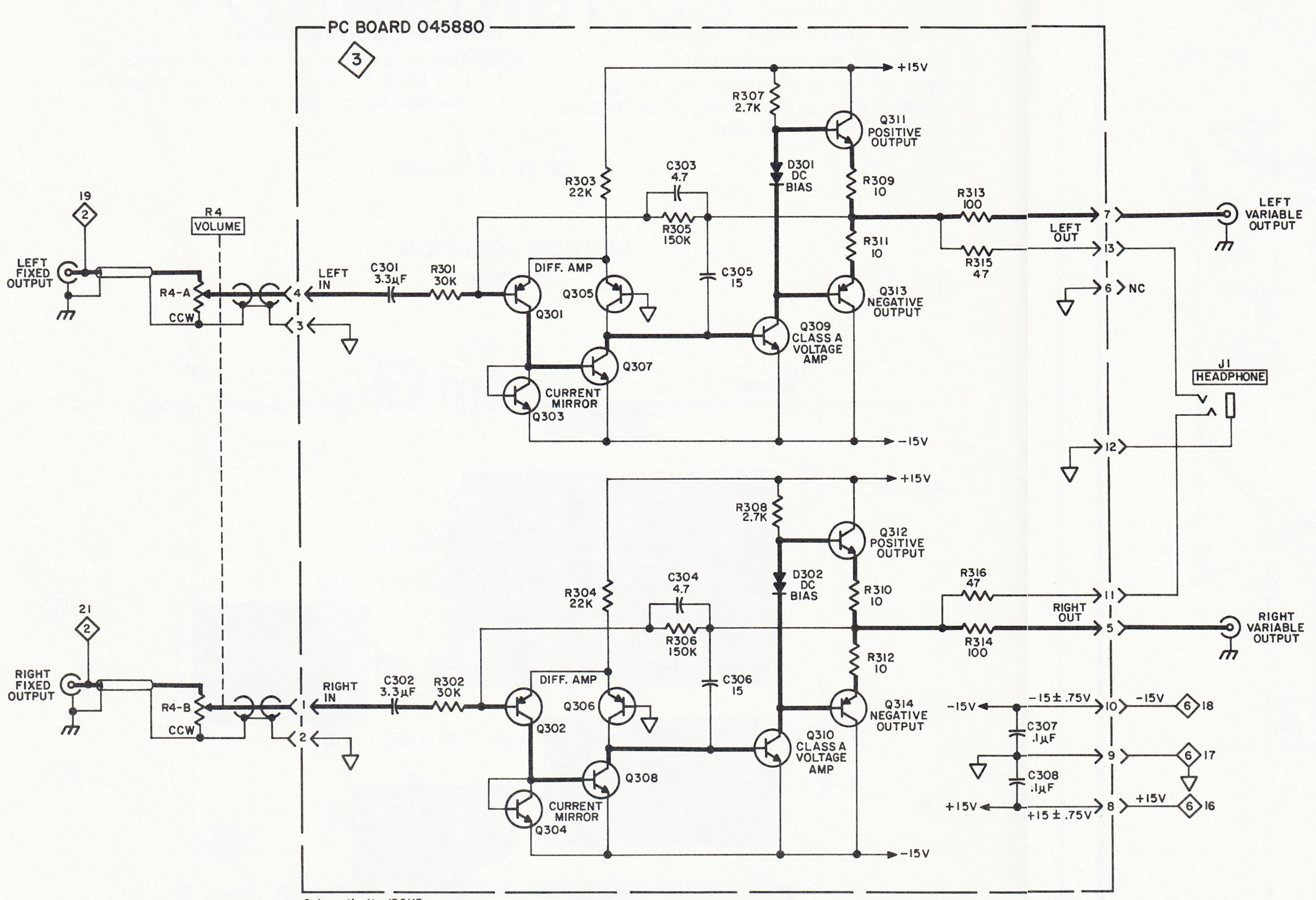
Part No.	Description
*017218	Plastic Feet, Secure Using 101072 Screws
*039103	Mounting Template
*045426	Mounting Strips
*045895	Hardware Package
*045697	Panloc Shelf Bracket, Right
*045698	Panloc Shelf Bracket, Left
*045515	Remote Switch Package
170122	FM Dipole Antenna

SHIPPING CARTON

Part No.	Description
*033391	Shipping Carton Only
*045967	Shipping Carton, Complete

* Parts marked with an asterisk (*) are replacement parts stocked by our Service Department and must be ordered from McIntosh. These parts must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.

SECTION 3 AUDIO AMPLIFIER



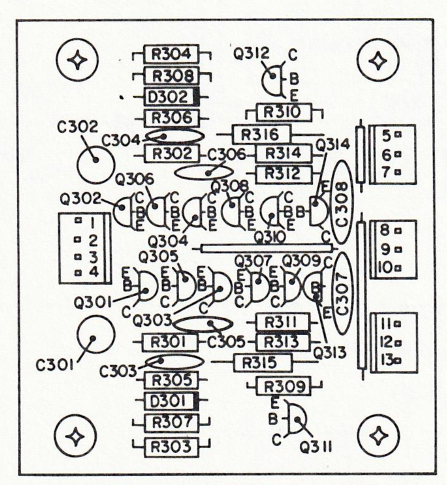
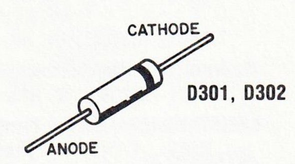
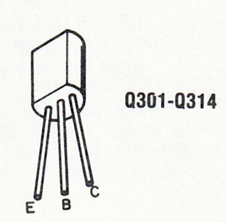


Fig. 3-1. PARTS LOCATION - PC board 045880.



D301, D302



Q301-Q314

PARTS LIST

Symbol No.	Part No.	Description
CAPACITORS (CD = Ceramic Disc, ELECT = Electrolytic)		
*C301	066277	ELECT, 3.3μF, 20%, 50V, NP
*C302	066277	ELECT, 3.3μF, 20%, 50V, NP
C303	061004	CD, 4.7pF, 20%, 500V, NPO
C304	061004	CD, 4.7pF, 20%, 500V, NPO
*C305	061114	CD, 15pF, 5%, 500V, N330
*C306	061114	CD, 15pF, 5%, 500V, N330
C307	061248	CD, 0.1μF, 25V, Y5T
C308	061248	CD, 0.1μF, 25V, Y5T
DIODES (Si = Silicon, STAB = Stabistor)		
*D301	070046	Si, STAB, 1.3V, 2%, 10mA, Selected MZ2361
*D302	070046	Si, STAB, 1.3V, 2%, 10mA, Selected MZ2361
TRANSISTORS (Si = Silicon)		
*Q301	132056	Si, PNP, 2N5087
*Q302	132056	Si, PNP, 2N5087
*Q303	132143	Si, NPN, MPS-D05
*Q304	132143	Si, NPN, MPS-D05
*Q305	132056	Si, PNP, 2N5087
*Q306	132056	Si, PNP, 2N5087
*Q307	132143	Si, NPN, MPS-D05
*Q308	132143	Si, NPN, MPS-D05
*Q309	132185	Si, NPN, Selected 2N6429A
*Q310	132185	Si, NPN, Selected 2N6429A
*Q311	132171	Si, NPN, MPS-A05
*Q312	132171	Si, NPN, MPS-A05
*Q313	132172	Si, PNP, MPS-A55
*Q314	132172	Si, PNP, MPS-A55
RESISTORS (CF = Carbon Film)		
R301	141083	CF, 30kΩ, 5%, 1/4W
R302	141083	CF, 30kΩ, 5%, 1/4W
R303	141080	CF, 22kΩ, 5%, 1/4W
R304	141080	CF, 22kΩ, 5%, 1/4W
R305	141100	CF, 150kΩ, 5%, 1/4W
R306	141100	CF, 150kΩ, 5%, 1/4W
R307	141059	CF, 2.7kΩ, 5%, 1/4W
R308	141059	CF, 2.7kΩ, 5%, 1/4W
R309	141136	CF, 10Ω, 5%, 1/4W
R310	141136	CF, 10Ω, 5%, 1/4W
R311	141136	CF, 10Ω, 5%, 1/4W
R312	141136	CF, 10Ω, 5%, 1/4W
R313	141025	CF, 100Ω, 5%, 1/4W
R314	141025	CF, 100Ω, 5%, 1/4W
R315	141161	CF, 47Ω, 5%, 1/2W
R316	141161	CF, 47Ω, 5%, 1/2W

* Parts marked with an asterisk (*) are replacement parts stocked by our Service Department and must be ordered from McIntosh. These parts must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.

MR500

Digital FM Tuner

Ceretti

Schematics

039324

Sheet 1 of 2

McIntosh

This sheet includes sections

1 INTERCONNECTION DIAGRAM

3 AUDIO AMPLIFIER

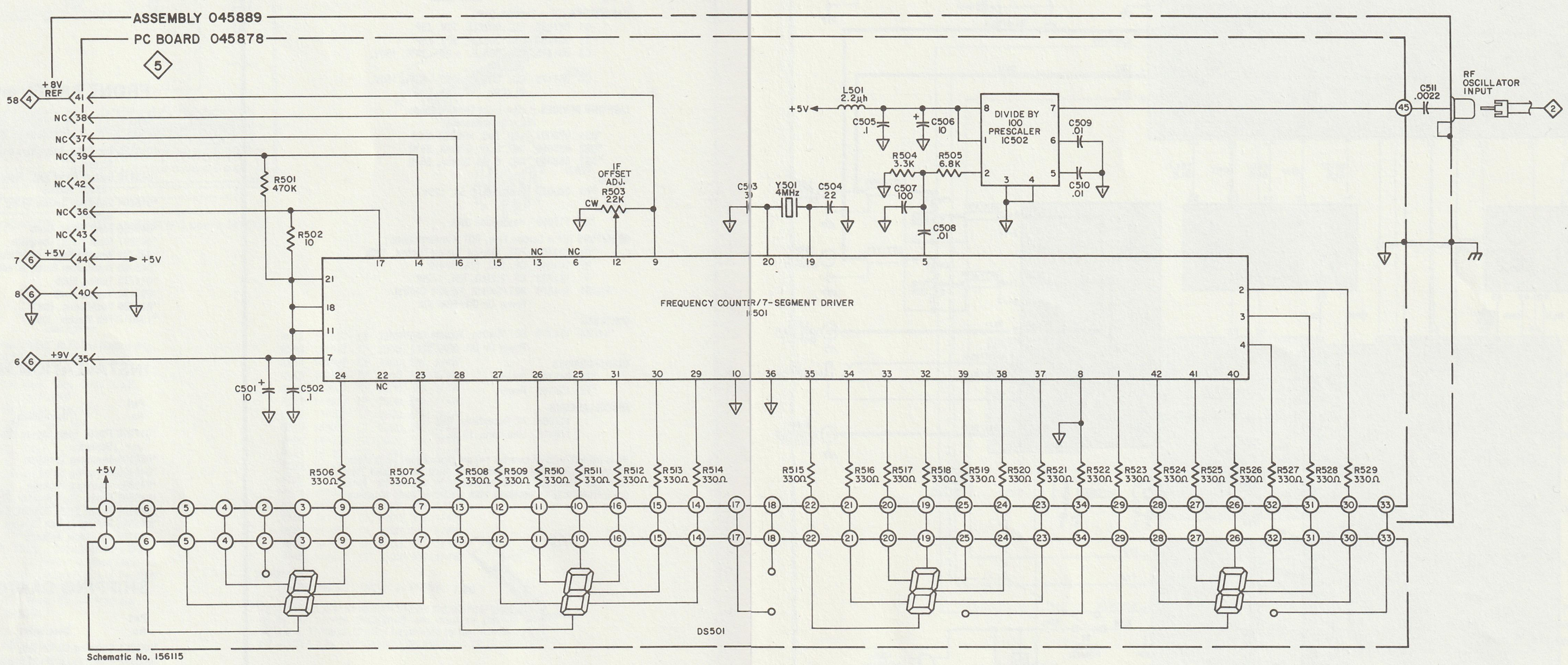
5 FREQUENCY COUNTER

6 POWER SUPPLY

McIntosh Laboratory Inc. 2 Chambers Street, Binghamton, NY 13903-9990

Printed in U.S.A. Telephone (607)723-3512 Part No. 039324

SECTION 5 FREQUENCY COUNTER



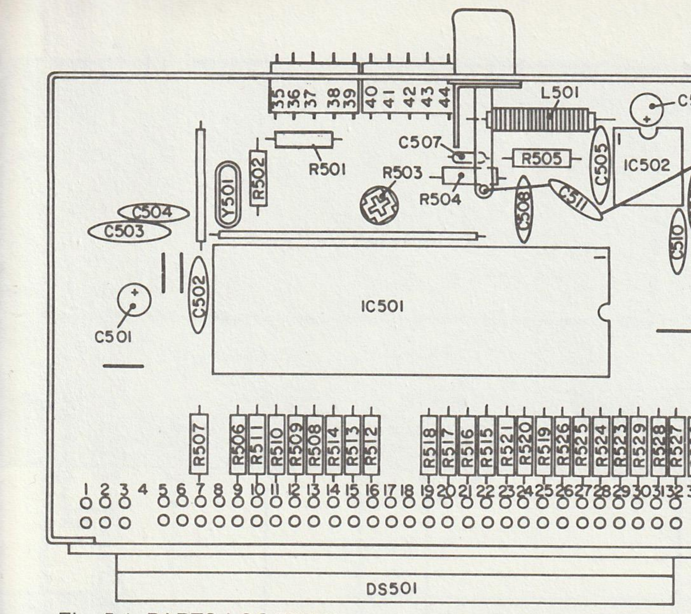
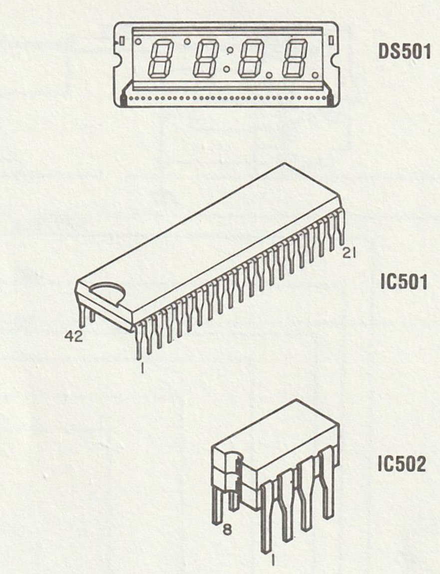


Fig. 5-1. PARTS LOCATION - Assembly 045889 (PC board 045878).



PARTS LIST

Symbol No.	Part No.	Description
CAPACITORS (CD = Ceramic Disc, ELECT = Electrolytic)		
C501	066211	ELECT, 10μF, 16V
C502	061248	CD, 0.1μF, 25V, Y5T
C503	061017	CD, 39pF, 10%, 500V, N330
C504	061253	CD, 22pF, NPO
C505	061248	CD, 0.1μF, 25V, Y5T
C506	066211	ELECT, 10μF, 16V
C507	061247	CD, 100pF, NPO
C508	061159	CD, .01μF, +80 −20%, 50V
C509	061159	CD, .01μF, +80 −20%, 50V
C510	061159	CD, .01μF, +80 −20%, 50V
C511	061250	CD, .0022μF, 50V, Z5P
LIGHTING DEVICES (LED = Light Emitting Diode)		
*DS501	058084	LED, Red, 7-Segment/4 Digit Display, SL1447
INTEGRATED CIRCUITS (CMOS = Complementary MOS, ECL = Emitter Coupled Logic)		
*IC501	133106	CMOS, Counter/Clock/7-Segment Driver, LC7250
*IC502	133107	ECL, Divide-By-100 Prescaler, DS8629N
CHOKES		
*L501	122001	Choke, 2.2μH
RESISTORS (CF = Carbon Film, POT = Potentiometer)		
R501	141112	CF, 470kΩ, 5%, 1/4W
R502	141136	CF, 10Ω, 5%, 1/4W
R503	134406	POT, 22kΩ
R504	141060	CF, 3.3kΩ, 5%, 1/4W
R505	141068	CF, 6.8kΩ, 5%, 1/4W
R506	141037	CF, 330Ω, 5%, 1/4W
R507	141037	CF, 330Ω, 5%, 1/4W
R508	141037	CF, 330Ω, 5%, 1/4W
R509	141037	CF, 330Ω, 5%, 1/4W
R510	141037	CF, 330Ω, 5%, 1/4W
R511	141037	CF, 330Ω, 5%, 1/4W
R512	141037	CF, 330Ω, 5%, 1/4W
R513	141037	CF, 330Ω, 5%, 1/4W
R514	141037	CF, 330Ω, 5%, 1/4W
R515	141037	CF, 330Ω, 5%, 1/4W
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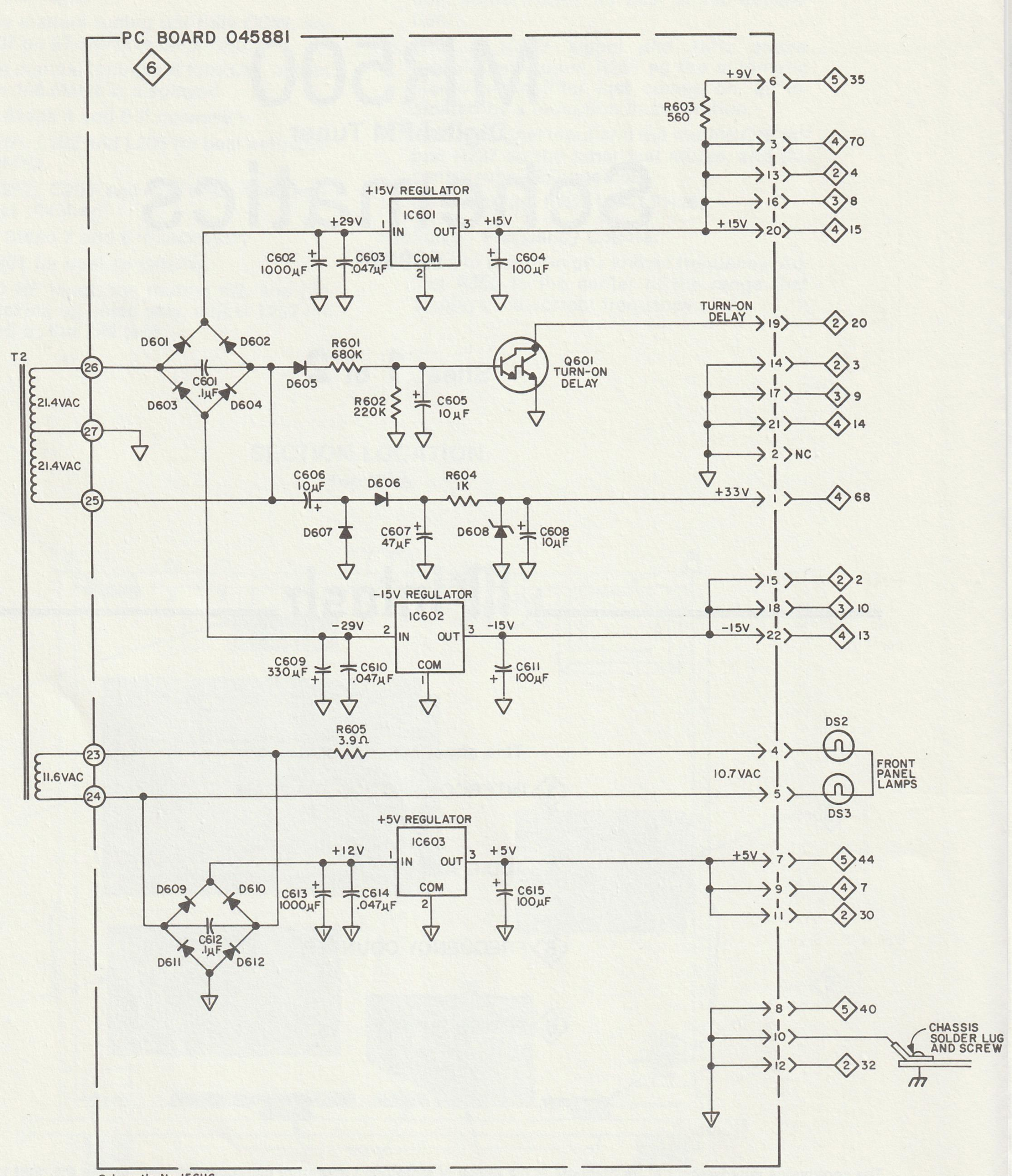
R520	141037	CF, 330Ω, 5%, 1/4W
R521	141037	CF, 330Ω, 5%, 1/4W
R522	141037	CF, 330Ω, 5%, 1/4W
R523	141037	CF, 330Ω, 5%, 1/4W
R524	141037	CF, 330Ω, 5%, 1/4W
R525	141037	CF, 330Ω, 5%, 1/4W
R526	141037	CF, 330Ω, 5%, 1/4W
R527	141037	CF, 330Ω, 5%, 1/4W
R528	141037	CF, 330Ω, 5%, 1/4W
R529	141037	CF, 330Ω, 5%, 1/4W
CRYSTALS		
*Y501	180029	4MHz, ±.0025%

* Parts marked with an asterisk (*) are replacement parts stocked by our Service Department and must be ordered from McIntosh. These parts must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.

SECTION 6 POWER SUPPLY — Ceretti



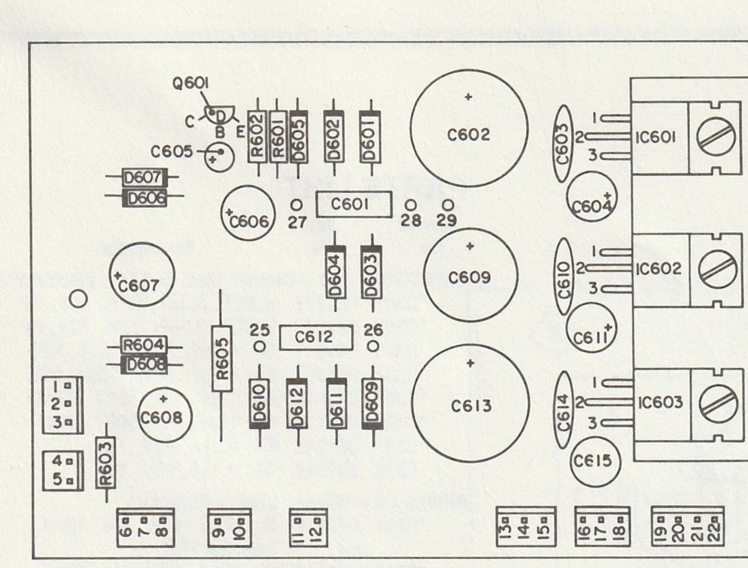
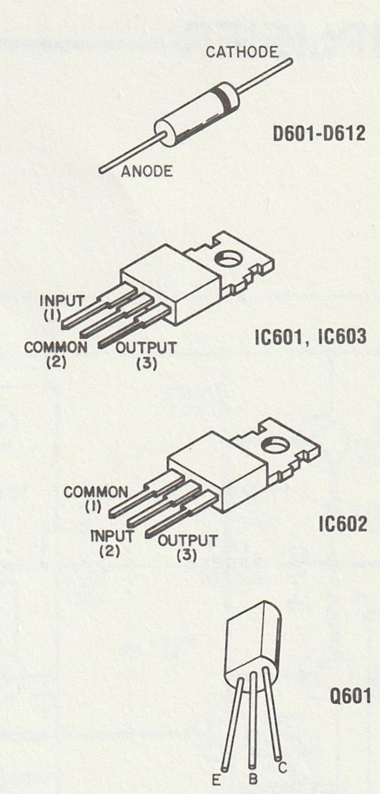


Fig. 6-1. PARTS LOCATION - PC board 045881.



PARTS LIST

Symbol No.	Part No.	Description
CAPACITORS (CD = Ceramic Disc, ELECT = Electrolytic, MPE = Metalized Polyester)		
C601	064338	MPE, .1μF, 100V
C602	066355	ELECT, 1000μF, 50V
C603	061251	CD, .047μF, 50V, Y5V
C604	066344	ELECT, 100μF, 16V
C605	066211	ELECT, 10μF, 16V
C606	066221	ELECT, 10μF, 50V
C607	066278	ELECT, 47μF, 50V
C608	066221	ELECT, 10μF, 50V
C609	066354	ELECT, 330μF, 50V
C610	061251	CD, .047μF, 50V, Y5V
C611	066344	ELECT, 100μF, 16V
C612	064338	MPE, .1μF, 100V
C613	066288	ELECT, 1000μF, 25V
C614	061251	CD, .047μF, 50V, Y5V
C615	066344	ELECT, 100μF, 16V
DIODES (Si = Silicon, SIG = Signal, RECT = Rectifier, ZN = Zener)		
*D601	070031	Si, RECT, 400 PIV, 1.5A
*D602	070031	Si, RECT, 400 PIV, 1.5A
*D603	070031	Si, RECT, 400 PIV, 1.5A
*D604	070031	Si, RECT, 400 PIV, 1.5A
*D605	070098	Si, SIG, 175V, 500mW, FDH400
*D606	070098	Si, SIG, 175V, 500mW, FDH400
*D607	070098	Si, SIG, 175V, 500mW, FDH400
*D608	070121	Si, ZN, 33V, 5%, 500mW, IN5257B
*D609	070031	Si, RECT, 400 PIV, 1.5A
*D610	070031	Si, RECT, 400 PIV, 1.5A
*D611	070031	Si, RECT, 400 PIV, 1.5A
*D612	070031	Si, RECT, 400 PIV, 1.5A
INTEGRATED CIRCUITS (AN = Analog, BP = Bipolar)		
*IC601	133086	AN, BP, Positive 15V Regulator, MC-7815CT
*IC602	133087	AN, BP, Negative 15V Regulator, MC-7915CT
*IC603	133108	AN, BP, Positive 5V Regulator, 7805
TRANSISTORS (DAR = Darlington, Si = Silicon)		
*Q601	132090	Si, NPN, DAR, Selected MPS-A14
RESISTORS (CF = Carbon Film)		
R601	141116	CF, 68kΩ, 5%, 1/4W
R602	141104	CF, 220kΩ, 5%, 1/4W
R603	141043	CF, 560kΩ, 5%, 1/4W
R604	141049	CF, 1kΩ, 5%, 1/4W
R605	141163	CF, 3.9Ω, 5%, 1/2W

* Parts marked with an asterisk (*) are replacement parts stocked by our Service Department and must be ordered from McIntosh. These parts must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.

ALIGNMENT PROCEDURE

1. Make the following adjustments after first pressing the MANUAL pushbutton.

Section 4 - Tuning Controller

2. Adjust R462 for 8.0V DC at terminal 3 of manual tuning pot R1.
3. With the manual tuning pot fully CCW, adjust R421 for 4.5V DC at IC402B, pin 7.

Section 2 - FM Tuner

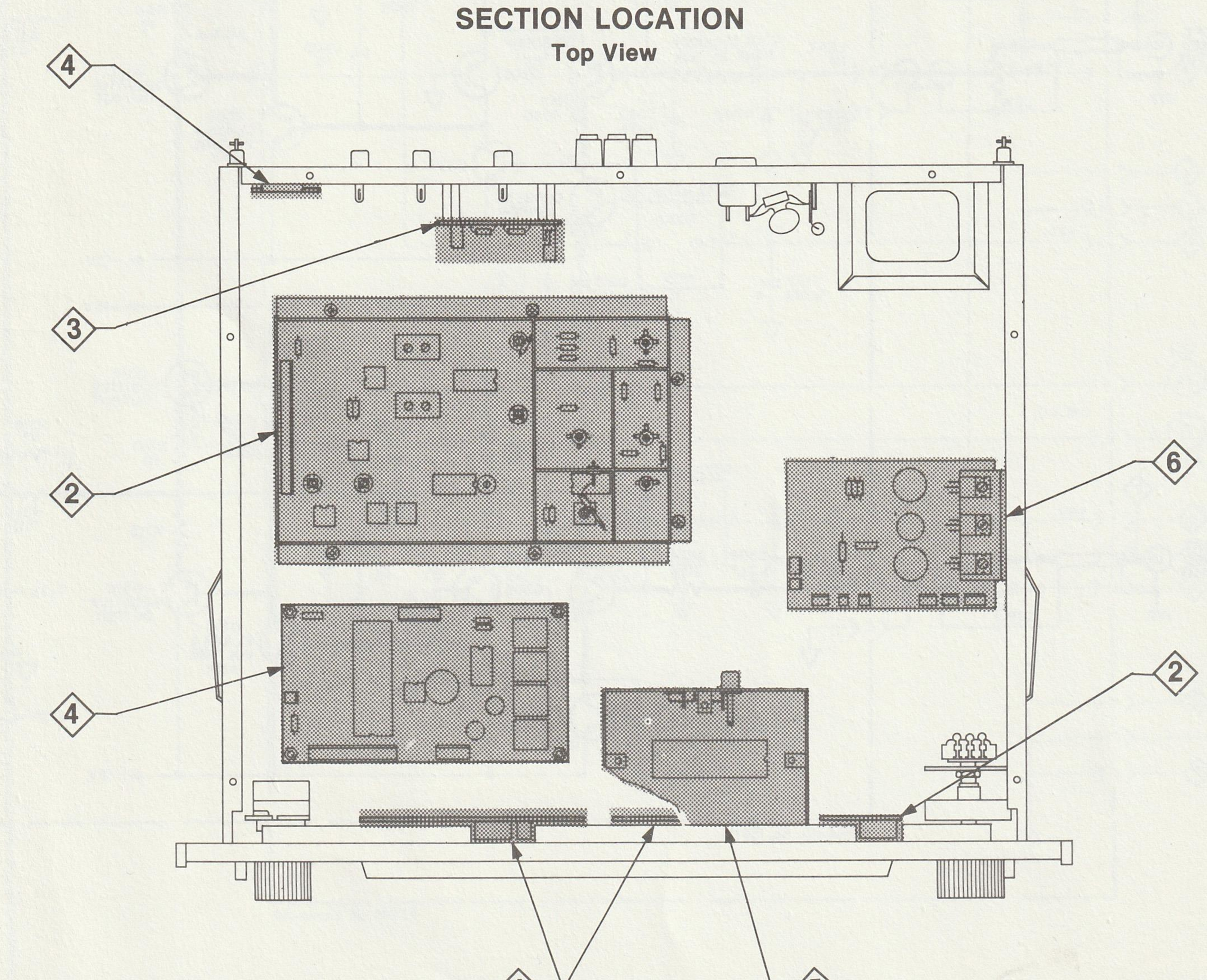
4. With the manual tuning pot fully CCW, adjust L207 so 87.5MHz is displayed.
5. With the manual tuning pot fully CW, adjust C225 so 108.5MHz is displayed.
6. Repeat Steps 4 and 5 if necessary.
7. Peak L201, L202 and L206 for best sensitivity at 90MHz.
8. Peak C212, C209 and C211 for best sensitivity at 104MHz.
9. Repeat Steps 7 and 8 if necessary.
10. Peak T201 for best sensitivity.
11. With no RF input, the muting off, and the tuner picking up noise only, adjust T202 for 0 volt DC at the TP2 jack.
12. With the same signal condition as Step 11, adjust R250 so IC206B pin 7 is 4.8V DC.
13. With a 1mV signal and no pilot or modulation, adjust R288 for 76kHz at test point 25.
14. With a 1mV signal and mono modulation, adjust T203 for minimum THD. Touch-up the tuning of T201 for minimum stereo THD.
15. With a 1mV signal and 1kHz stereo modulation, adjust R2001 for best stereo separation.
16. With a 100μV signal and 1kHz stereo modulation, adjust R269 so the automatic stereo noise filter just comes on, as indicated by a reduction in separation.
17. With no signal input and the muting ON, adjust R237 so the tuner just mutes, and the center tune LED goes out.
18. Do not adjust FN201 and FN202.

Section 5 - Frequency Counter

19. Tune to a station of a known frequency. Adjust R503 to the center of the range that displays the correct frequency.

SECTION LOCATION

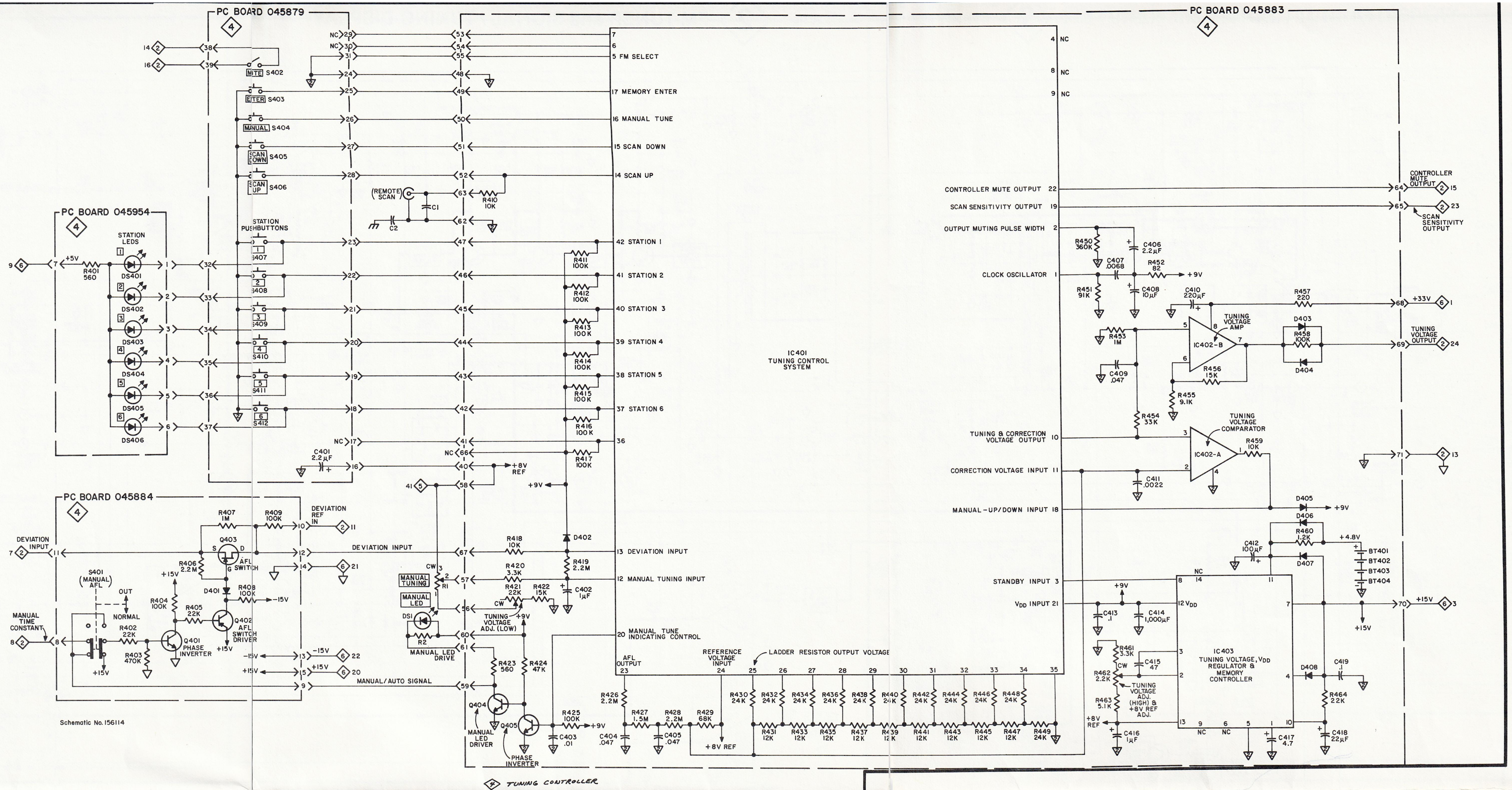
Top View



PARTS LIST

Symbol No.	Part No.	Description
CAPACITORS (CD = Ceramic Disc, ELECT = ELectrolytic, PF = Polyester Film, MPE = Metalized Polyester)		
C401	066328	ELECT, 2.2μF, 25V
C402	066242	ELECT, 1μF, 50V
C403	061159	CD, .01μF, +80 −20%, 50V
C404	064250	MPE, .047μF, 10%, 63V
C405	064250	MPE, .047μF, 10%, 63V
C406	066237	ELECT, 2.2μF, 50V
*C407	064240	PF, .0068μF, 10%, 63V
C408	066211	ELECT, 10μF, 16V
C409	061251	CD, .047μF, 50V, Y5V
C410	066219	ELECT, 220μF, 50V
C411	061250	CD, .0022μF, 50V, Z5P
C412	066344	ELECT, 100μF, 16V
C413	061248	CD, 0.1μF, 25V, Y5T
C414	066348	ELECT, 1000μF, 10V
C415	061196	CD, 47pF, 20%, 50V, N470
C416	066242	ELECT, 1μF, 50V
C417	066289	ELECT, 4.7μF, 25V
C418	066345	ELECT, 22μF, 16V
C419	061248	CD, 0.1μF, 25V, Y5T
BATTERIES		
*BT401	086005	Battery, Ni-Cad, 1.2V
*BT402	086005	Battery, Ni-Cad, 1.2V
*BT403	086005	Battery, Ni-Cad, 1.2V
*BT404	086005	Battery, Ni-Cad, 1.2V
DIODES (Ge = Germanium, RECT = Rectifier, Si = Silicon, SIG = Signal)		
*D401	070047	Si, SIG, 75V, 10mA, IN4148
*D402	070047	Si, SIG, 75V, 10mA, IN4148
*D403	070003	Ge, SIG, 45V, 10mA, IN541
*D404	070003	Ge, SIG, 45V, 10mA, IN541
*D405	070047	Si, SIG, 75V, 10mA, IN4148
*D406	070047	Si, SIG, 75V, 10mA, IN4148
*D407	070031	Si, RECT, 400 PIV, 1.5A
*D408	070047	Si, SIG, 75V, 10mA, IN4148
LIGHTING DEVICES (LED = Light Emitting Diode)		
*DS401	058078	LED, Red, SLP144B
*DS402	058078	LED, Red, SLP144B
*DS403	058078	LED, Red, SLP144B
*DS404	058078	LED, Red, SLP144B
*DS405	058078	LED, Red, SLP144B
*DS406	058078	LED, Red, SLP144B
INTEGRATED CIRCUITS (AN = Analog, BP = Bipolar, CMOS = Complementary MOS)		
*IC401	133103	AN, CMOS, Tuning Control, LC7207
*IC402	133105	AN, BP, Dual Hi-Speed Operation Amp., MC3458P1
*IC403	133104	AN, BP, Tuning Voltage Regulator, LA5700
TRANSISTORS (J-FET = Junction FET, N = N Channel, Si = Silicon)		
*Q401	132171	Si, NPN, MPS-A05
*Q402	132172	Si, PNP, MPS-A55
*Q403	132193	Si, N, J-FET, 2N4392
*Q404	132143	Si, NPN, MPS-D05
*Q405	132143	Si, NPN, MPS-D05
RESISTORS (CF = Carbon Film, POT = Potentiometer)		
R401	141043	CF, 560Ω, 5%, 1/4W
R402	141080	CF, 22kΩ, 5%, 1/4W
R403	141112	CF, 470kΩ, 5%, 1/4W
R404	141096	CF, 100kΩ, 5%, 1/4W
R405	141080	CF, 22kΩ, 5%, 1/4W
R406	141124	CF, 2.2MΩ, 5%, 1/4W
R407	141120	CF, 1MΩ, 5%, 1/4W
R408	141096	CF, 100kΩ, 5%, 1/4W
R409	141096	CF, 100kΩ, 5%, 1/4W
R410	141072	CF, 10kΩ, 5%, 1/4W
R411	141096	CF, 100kΩ, 5%, 1/4W
R412	141096	CF, 100kΩ, 5%, 1/4W
R413	141096	CF, 100kΩ, 5%, 1/4W
R414	141096	CF, 100kΩ, 5%, 1/4W
R415	141096	CF, 100kΩ, 5%, 1/4W
R416	141096	CF, 100kΩ, 5%, 1/4W
R417	141096	CF, 100kΩ, 5%, 1/4W
R418	141072	CF, 10kΩ, 5%, 1/4W
R419	141124	CF, 2.2MΩ, 5%, 1/4W
R420	141060	CF, 3.3kΩ, 5%, 1/4W
*R421	134328	POT, 22kΩ, Linear
R422	141076	CF, 15kΩ, 5%, 1/4W
R423	141043	CF, 560Ω, 5%, 1/4W
R424	141088	CF, 47kΩ, 5%, 1/4W
R425	141096	CF, 100kΩ, 5%, 1/4W
R426	141124	CF, 2.2MΩ, 5%, 1/4W
R427	141122	CF, 1.5MΩ, 5%, 1/4W
R428	141124	CF, 2.2MΩ, 5%, 1/4W
R429	141092	CF, 68kΩ, 5%, 1/4W
R430	141081	CF, 24kΩ, 5%, 1/4W
R431	141074	CF, 12kΩ, 5%, 1/4W
R432	141081	CF, 24kΩ, 5%, 1/4W
R433	141074	CF, 12kΩ, 5%, 1/4W
R434	141081	CF, 24kΩ, 5%, 1/4W
R435	141074	CF, 12kΩ, 5%, 1/4W
R436	141081	CF, 24kΩ, 5%, 1/4W
R437	141074	CF, 12kΩ, 5%, 1/4W
R438	141081	CF, 24kΩ, 5%, 1/4W
R439	141074	CF, 12kΩ, 5%, 1/4W
R440	141081	CF, 24kΩ, 5%, 1/4W
R441	141074	CF, 12kΩ, 5%, 1/4W
R442	141081	CF, 24kΩ, 5%, 1/4W
R443	141074	CF, 12kΩ, 5%, 1/4W
R444	141081	CF, 24kΩ, 5%, 1/4W
R445	141074	CF, 12kΩ, 5%, 1/4W
R446	141081	CF, 24kΩ, 5%, 1/4W
R447	141074	CF, 12kΩ, 5%, 1/4W
R448	141081	CF, 24kΩ, 5%, 1/4W
R449	141081	CF, 24kΩ, 5%, 1/4W
R450	141109	CF, 360kΩ, 5%, 1/4W
R451	141095	CF, 91kΩ, 5%, 1/4W
R452	141158	CF, 82Ω, 5%, 1/4W
R453	141120	CF, 1MΩ, 5%, 1/4W
R454	141084	CF, 33kΩ, 5%, 1/4W
R455	141071	CF, 9.1kΩ, 5%, 1/4W
R456	141076	CF, 15kΩ, 5%, 1/4W
R457	141033	CF, 220Ω, 5%, 1/4W
R458	141096	CF, 100kΩ, 5%, 1/4W
R459	141072	CF, 10kΩ. 5%, 1/4W
R460	141051	CF, 1.2kΩ, 5%, 1/4W
R461	141060	CF, 3.3kΩ, 5%, 1/4W
*R462	134408	POT, 2.2kΩ
R463	141065	CF, 5.1kΩ, 5%, 1/4W
R464	141080	CF, 22kΩ, 5%, 1/4W
SWITCHES		
*S401	148049	Manual Tune Lock Switch
*S402	150040	Pushbutton, Push on/Push off, DPST
*S403	150039	Pushbutton, Momentary, DPST
*S404	150039	Pushbutton, Momentary, DPST
*S405	150039	Pushbutton, Momentary, DPST
*S406	150039	Pushbutton, Momentary, DPST
*S407	150039	Pushbutton, Momentary, DPST
*S408	150039	Pushbutton, Momentary, DPST
*S409	150039	Pushbutton, Momentary, DPST
*S410	150039	Pushbutton, Momentary, DPST
*S411	150039	Pushbutton, Momentary, DPST
*S412	150039	Pushbutton, Momentary, DPST

* Parts marked with an asterisk (*) are replacement parts stocked by our Service Department and must be ordered from McIntosh. These parts must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.



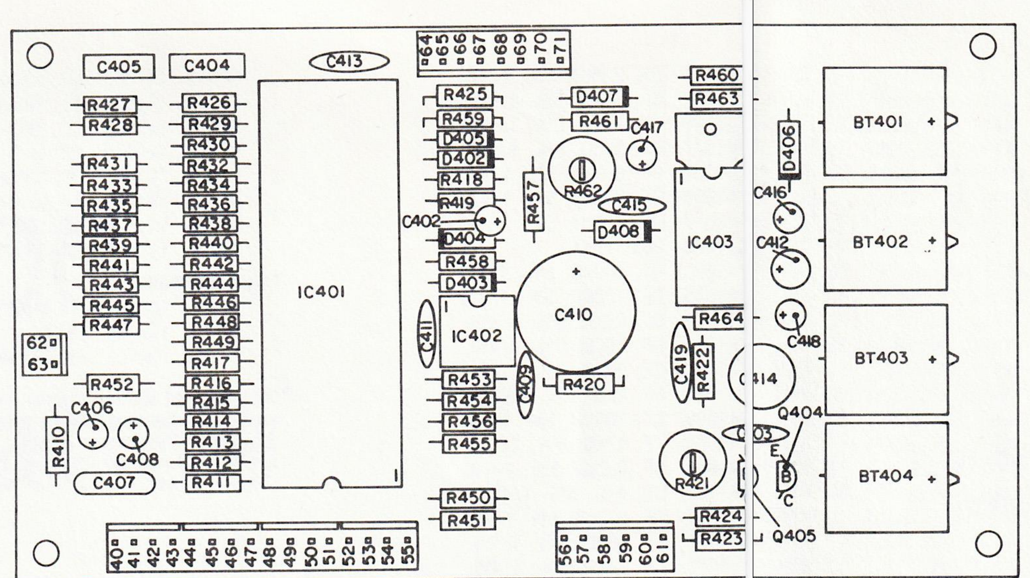


Fig. 4-1. PARTS LOCATION - PC board 045883.

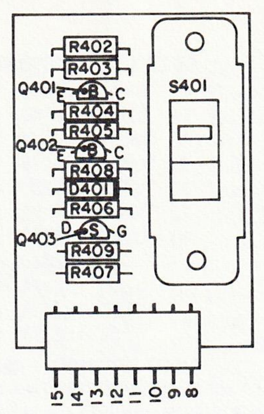
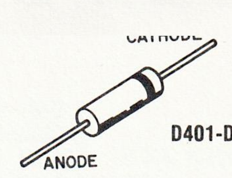
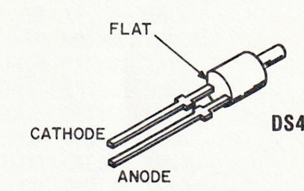


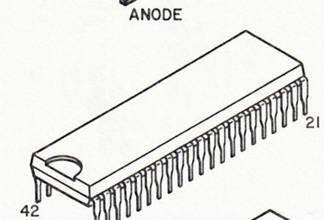
Fig. 4-3. PARTS LOCATION - PC board 045884.



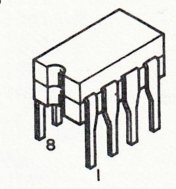
D401-D408



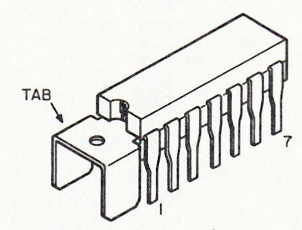
DS401-DS406



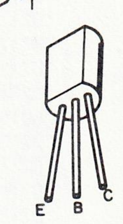
IC401



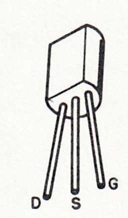
IC402



IC403



Q401, Q402
Q404, Q405



Q403

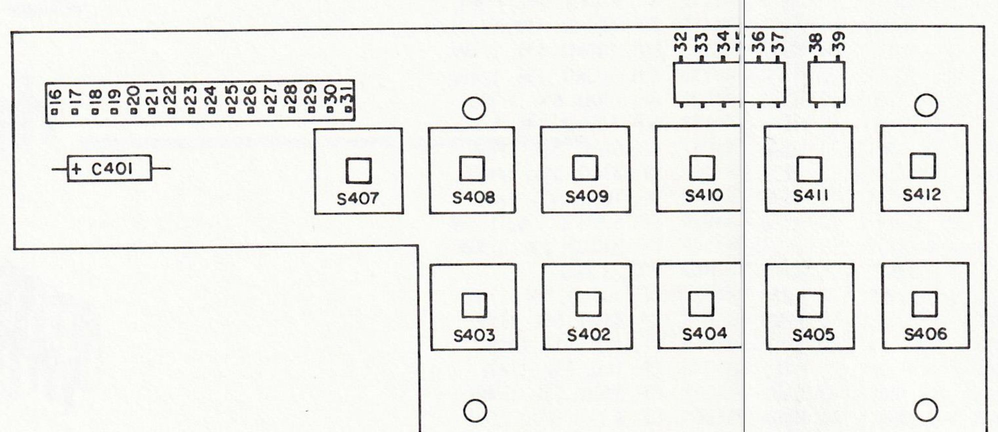


Fig. 4-2. PARTS LOCATION - PC board 045879.

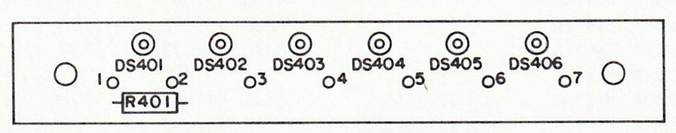


Fig. 4-4. PARTS LOCATION - PC board 045954.

MR500

Digital FM Tuner Ceretti

Schematics

039326

Sheet 2 of 2

McIntosh

This sheet includes sections

2 FM TUNER and SIGNAL / TUNING DISPLAY

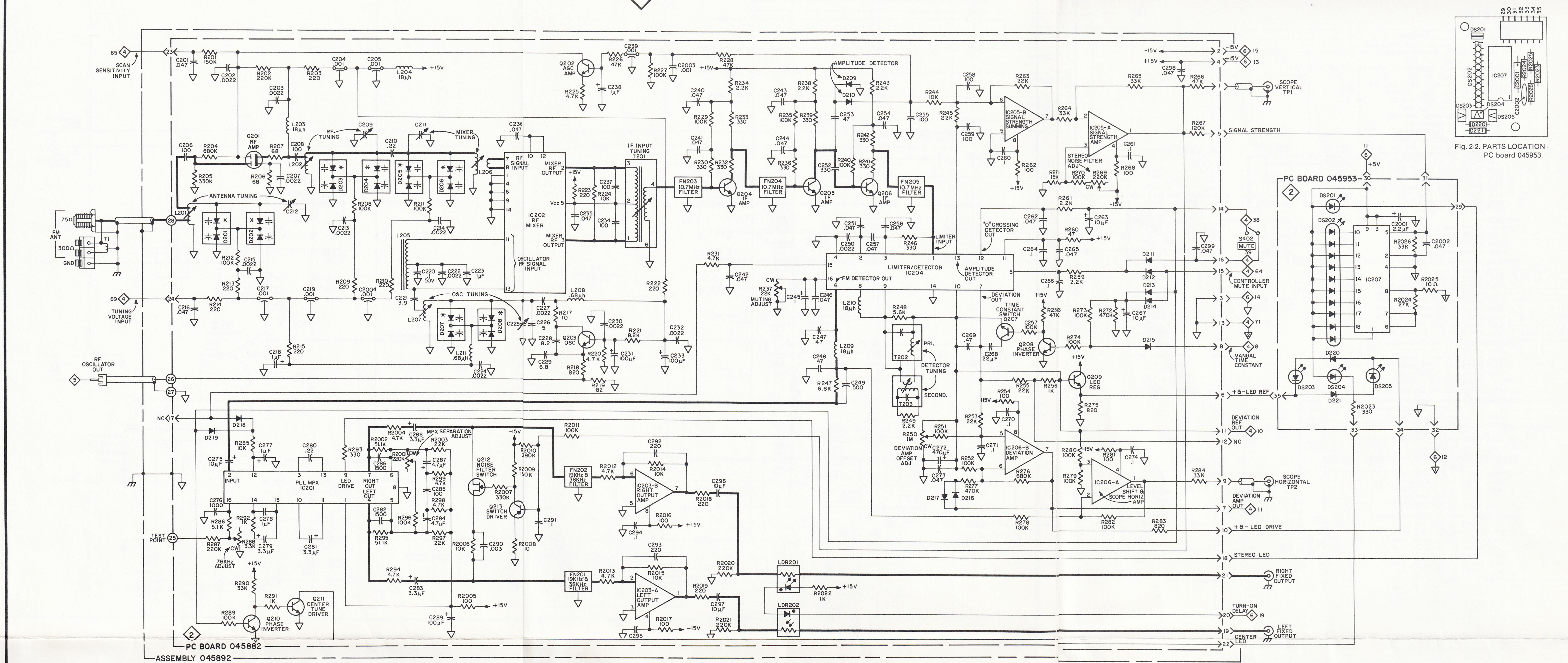
4 TUNING CONTROLLER

McIntosh Laboratory Inc. 2 Chambers Street, Binghamton, NY 13903-9990

Printed in U.S.A. Telephone (607)723-3512 Part No. 039326

SECTION 2 **FM TUNER and SIGNAL / TUNING DISPLAY**

Ceretti



Schematic No. 156112

Fig. 2-2. PARTS LOCATION - PC board 045953.

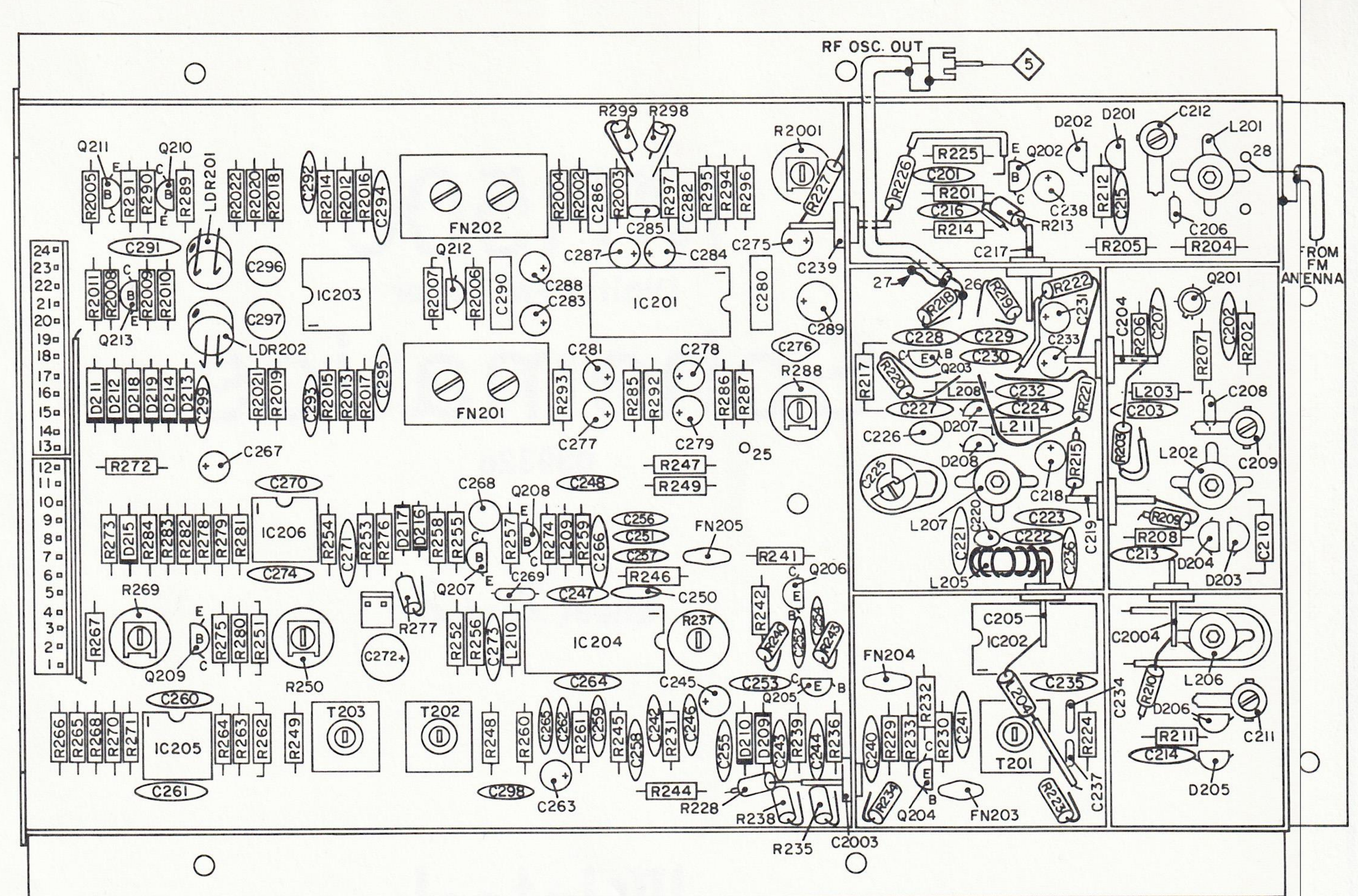


Fig. 2-1. PARTS LOCATION - Assembly 045892 (PC board 045882).

PARTS LIST

Symbol No.	Part No.	Description
CAPACITORS		(CD = Ceramic Disc, ELECT = Electrolytic, FC = Fixed Composition, FED = Feed-Thru, MPE = Metalized Polyester, PF = Polyester Film, PPR = Polypropylene,, PSR = Polystyrene, TA = Tantalum)
C201	061251	CD, .047μF, 50V, Y5V
C202	061250	CD, .0022μF, 50V, Z5P
C203	061250	CD, .0022μF, 50V, Z5P
C204	061101	FED, 1000pF, +200 −0%, 500V
C205	061101	FED, 1000pF, +200 −0%, 500V
C206	061247	CD, 100pF, NPO
C207	061250	CD, .0022pF, 50V, Z5P
C208	061247	CD, 100pF, NPO
*C209	060014	Trimmer, 3-15pF
*C210	069002	FC, 0.22pF, 10%
*C211	060014	Trimmer, 3-15pF
*C212	060014	Trimmer, 3-15pF
C213	061250	CD, .0022μF, 50V, Z5P
C214	061250	CD, .0022μF, 50V, Z5P
C215	061250	CD, .0022μF, 50V, Z5P
C216	061251	CD, .047μF, 50V, Y5V
C217	061101	FED, 1000pF, +200 −0%, 500V
C218	066242	ELECT, 1μF, 50V
C219	061101	FED, 1000pF, +200 −0%, 500V
*C220	066175	TA, 1μF, 50V
*C221	061140	CD, 3.9pF, ±.25pF, 100V, NPO
C222	061250	CD, .0022μF, 50V, Z5P
C223	061248	CD, 0.1μF, 25V, Y5T
C224	061250	CD, .0022μF, 50V, Z5P
*C225	060019	Trimmer, 1.6-10.5pF
C226	061254	CD, 5pF, 50V, N470
C227	061250	CD, .0022μF, 50V, Z5P
C228	061130	CD, 8.2pF, 10%, NPO
C229	061008	CD, 6.8pF, 20%, 500V, NPO
C230	061250	CD, .0022μF, 50V, Z5P
C231	066345	ELECT, 22μF, 16V
C232	061250	CD, .0022μF, 50V, Z5P
C233	066344	ELECT, 100μF, 16V
C234	061247	CD, 100pF, NPO
C235	061251	CD, .047μF, 50V, Y5V
C236	061251	CD, .047μF, 50V, Y5V
C237	061247	CD, 100pF, NPO
C238	066242	ELECT, 1μF, 50V
C239	061101	FED, 1000pF, +200 −0%, 500V
C240	061251	CD, .047μF, 50V, Y5V
C241	061251	CD, .047μF, 50V, Y5V
C242	061251	CD, .047μF, 50V, Y5V
C243	061251	CD, .047μF, 50V, Y5V
C244	061251	CD, .047μF, 50V, Y5V
C245	066242	ELECT, 1μF, 50V
C246	061251	CD, .047μF, 50V, Y5V
C247	061196	CD, 47pF, 20%, 50V, N470
C248	061196	CD, 47pF, 20%, 50V, N470
*C249	064140	PSR, 500pF, 5%, 33V
C250	062150	CD, .0022μF, 50V, Z5P
C251	061251	CD, .047μF, 50V, Y5V
C252	061029	CD, 330pF, 10%,
C253	061196	CD, 47pF, 20%, 50V, N470
C254	061251	CD, .047μF, 50V, Y5V
C255	061199	CD, 100pF, 10%, 50V, N1500
C256	061251	CD, .047μF, 50V, Y5V
C257	061251	CD, .047μF, 50V, Y5V
C258	061199	CD, 100pF, 10%, 50V, N1500
C259	061199	CD, 100pF, 10%, 50V, N1500
C260	061248	CD, 0.1μF, 25V, Y5T
C261	061248	CD, 0.1μF, 25V, Y5T
C262	061251	CD, .047μF, 50V, Y5V
C263	066211	ELECT, 10μF, 16V
C264	061248	CD, 0.1μF, 25V, Y5T
C265	061251	CD, .047μF, 50V, Y5V
C266	061248	CD, 0.1μF, 25V, Y5T
C267	066211	ELECT, 10μF, 16V
*C268	066346	ELECT, 22μF, 10V, NP
C269	061249	CD, 0.47μF, 20%, 50V
C270	061248	CD, 0.1μF, 25V, Y5T
C271	061248	CD, 0.1μF, 25V, Y5T
C272	066327	ELECT, 47μF, 10V
C273	061251	CD, .047μF, 50V, Y5V
C274	061248	CD, 0.1μF, 25V, Y5T
C275	066211	ELECT, 10μF, 16V
*C276	064288	PPR, 1000pF, 2.5%, 63V
C277	066242	ELECT, 1μF, 50V
C278	066242	ELECT, 1μF, 50V
C279	066282	ELECT, 3.3μF, 50V
C280	064190	MPE, 0.22μF, 5%, 63V
C281	066282	ELECT, 3.3μF, 50V
*C282	064289	PF, .0051μF, 100V
C283	066282	ELECT, 3.3μF, 50V
C284	066347	ELECT, 4.7μF, 35V
C285	061247	CD, 100pF, NPO
*C286	064289	PF, .0051μF, 100V
C287	066347	ELECT, 4.7μF, 35V
C288	066282	ELECT, 3.3μF, 50V
C289	066344	ELECT, 100μF, 16V
C290	064248	MPE, .033μF, 10%, 63V
C291	061248	CD, 0.1μF, 25V, Y5T
C292	061027	CD, 220pF, 10%, 500V, Z5F
C293	061027	CD, 220pF, 10%, 500V, Z5F
C294	061248	CD, 0.1μF, 25V, Y5T
C295	061248	CD, 0.1μF, 25V, Y5T
*C296	066316	ELECT, 10μF, 25V, NP
*C297	066316	ELECT, 10μF, 25V, NP
C298	061251	CD, .047μF, 50V, Y5V
C299	061251	CD, .047μF, 50V, Y5V
C2001	066328	ELECT, 2.2μF, 25V
C2002	061251	CD, .047μF, 50V, Y5V
C2003	061101	FED, 1000pF, +200 −0%, 500V
C2004	061101	FED, 1000pF, +200 −0%, 500V
DIODES		(Ge = Germanium, SIG = Signal, Si = Silicon, VAC = Varactor)
*D201	070122	Si, VAC, matched, Selected SVC211
*D202	070122	Si, VAC, matched, Selected SVC211
*D203	070122	Si, VAC, matched, Selected SVC211
*D204	070122	Si, VAC, matched, Selected SVC211
*D205	070122	Si, VAC, matched, Selected SVC211
*D206	070122	Si, VAC, matched, Selected SVC211
*D207	070122	Si, VAC, matched, Selected SVC211
*D208	070122	Si, VAC, matched, Selected SVC211
*D209	070003	Ge, SIG, 45V, 10mA, IN541
*D210	070003	Ge, SIG, 45V, 10mA, IN541
*D211	070047	Si, SIG, 75V, 10mA, IN4148
*D212	070047	Si, SIG, 75V, 10mA, IN4148
*D213	070047	Si, SIG, 75V, 10mA, IN4148
*D214	070047	Si, SIG, 75V, 10mA, IN4148
*D215	070047	Si, SIG, 75V, 10mA, IN4148
*D216	070047	Si, SIG, 75V, 10mA, IN4148
*D217	070047	Si, SIG, 75V, 10mA, IN4148
*D218	070047	Si, SIG, 75V, 10mA, IN4148
*D219	070047	Si, SIG, 75V, 10mA, IN4148
*D220	070047	Si, SIG, 75V, 10mA, IN4148
*D221	070047	Si, SIG, 75V, 10mA, IN4148
LIGHTING DEVICES		(LED = Light Emitting Diode)
*DS201	070115	LED, Red Bar, AND205R
*DS202	045600	LED, 5V, 10-Segment Bar on PCB
*DS203	058083	LED, Red Triangle, AND207R
*DS204	058083	LED, Red Triangle, AND207R
*DS205	058083	LED, Red Triangle, AND207R
FILTERS		(PE = Piezoelectric)
*FN201	180028	Low Pass, Multiplex
*FN202	180028	Low Pass, Multiplex
*FN203	180024	PE, 10.64 to 10.76MHz, Color coded, SFE10.7
*FN204	180024	PE, 10.64 to 10.76MHz, Color coded, SFE10.7
*FN205	180024	PE, 10.64 to 10.76MHz, Color coded, SFE10.7
INTEGRATED CIRCUITS		(AN = Analog, BP = Bipolar)
*IC201	133101	AN, BP, MPX-PLL Demoduator, HA12016
*IC202	133102	AN, BP, RF Mixer, S042P
*IC203	133028	AN, BP, Dual Hi-speed Operation Amp., MC-4558P
*IC204	133100	AN, BP, FM-IF System, HA12412
*IC205	133028	AN, BP, Dual Hi-speed Operation Amp., MC-4558P
*IC206	133028	AN, BP, Dual Hi-speed Operation Amp., MC-4558P
*IC207	133089	AN, BP, 10-Segment LED Bargraph Driver, LM3914N
COILS and INDUCTORS		
*L201	162099	Inductor, RF
*L202	162100	Inductor, RF
*L203	122224	Choke, 18μH
*L204	122224	Choke, 18μH
*L205	045267	Balun
*L206	162104	Inductor, RF
*L207	162098	Inductor, RF
*L208	122223	Choke, .68μH
*L209	122224	Choke, 18μH
*L210	122224	Choke, 18μH
*L211	122223	Choke, .68μH
LIGHT DEPENDENT RESISTORS		
*LDR201	144070	LDR, CLM6000
*LDR202	144070	LDR, CLM6000
TRANSISTORS		(J-FET = Junction FET, MOS = MOS-FET, Si = Silicon, N = N Channel)
*Q201	132205	Si, N, MOS, Dual Gate, MFE521
*Q202	132143	Si, NPN, MPS-D05
*Q203	132181	Si, NPN, MPS-H10
*Q204	132181	Si, NPN, MPS-H10
*Q205	132181	Si, NPN, MPS-H10
*Q206	132181	Si, NPN, MPS-H10
*Q207	132185	Si, NPN, Selected 2N6429A
*Q208	132143	Si, NPN, MPS-D05
*Q209	132143	Si, NPN, MPS-D05
*Q210	132143	Si, NPN, MPS-D05
*Q211	132143	Si, NPN, MPS-D05
*Q212	132193	Si, N, J-FET, 2N4392
*Q213	132056	Si, PNP, 2N5087
RESISTORS		(CF = Carbon Film, MR = Metal Film, POT = Potentiometer)
R201	141100	CF, 150kΩ, 5%, 1/4W
R202	141104	CF, 220kΩ, 5%, 1/4W
R203	141033	CF, 220Ω, 5%, 1/4W
R204	141116	CF, 680kΩ, 5%, 1/4W
R205	141108	CF, 330kΩ, 5%, 1/4W
R206	141156	CF, 68Ω, 5%, 1/4W
R207	141156	CF, 68Ω, 5%, 1/4W
R208	141096	CF, 100kΩ, 5%, 1/4W
R209	141033	CF, 220Ω, 5%, 1/4W
R210	141033	CF, 220Ω, 5%, 1/4W
R211	141096	CF, 100kΩ, 5%, 1/4W
R212	141096	CF, 100kΩ, 5%, 1/4W
R213	141033	CF, 220Ω, 5%, 1/4W
R214	141033	CF, 220Ω, 5%, 1/4W
R215	141033	CF, 220Ω, 5%, 1/4W
R216		(Not Used)
R217	141136	CF, 10Ω, 5%, 1/4W
R218	141047	CF, 820Ω, 5%, 1/4W
R219	141158	CF, 82Ω, 5%, 1/4W
R220	141064	CF, 4.7kΩ, 5%, 1/4W
R221	141070	CF, 8.2kΩ, 5%, 1/4W
R222	141033	CF, 220Ω, 5%, 1/4W
R223	141033	CF, 220Ω, 5%, 1/4W
R224	141072	CF, 10kΩ, 5%, 1/4W
R225	141064	CF, 4.7kΩ, 5%, 1/4W
R226	141088	CF, 47kΩ, 5%, 1/4W
R227	141096	CF, 100kΩ, 5%, 1/4W
R228	141088	CF, 47kΩ, 5%, 1/4W
R229	141096	CF, 100kΩ, 5%, 1/4W
R230	141037	CF, 330Ω, 5%, 1/4W
R231	141064	CF, 4.7kΩ, 5%, 1/4W
R232	141037	CF, 330Ω, 5%, 1/4W
R233	141037	CF, 330Ω, 5%, 1/4W
R234	141057	CF, 2.2kΩ, 5%, 1/4W
R235	141096	CF, 100kΩ, 5%, 1/4W
R236	141037	CF, 330Ω, 5%, 1/4W
*R237	134328	POT, 22kΩ, Linear
R238	141057	CF, 2.2kΩ. 5%, 1/4W
R239	141037	CF, 330Ω, 5%, 1/4W
R240	141096	CF, 100kΩ, 5%, 1/4W
R241	141037	CF, 330Ω, 5%, 1/4W
R242	141037	CF, 330Ω, 5%, 1/4W
R243	141057	CF, 2.2kΩ, 5%, 1/4W
R244	141072	CF, 10kΩ, 5%, 1/4W
R245	141080	CF, 22kΩ, 5%, 1/4W
R246	141037	CF, 330Ω, 5%, 1/4W
R247	141068	CF, 6.8kΩ, 5%, 1/4W
R248	141066	CF, 5.6kΩ, 5%, 1/4W
R249	141057	CF, 2.2kΩ, 5%, 1/4W
*R250	134403	POT, 1MΩ
R251	141096	CF, 100kΩ, 5%, 1/4W
R252	141096	CF, 100kΩ, 5%, 1/4W
R253	141080	CF, 22kΩ, 5%, 1/4W
R254	141025	CF, 100Ω, 5%, 1/4W
R255	141080	CF, 22kΩ, 5%, 1/4W
R256	141049	CF, 1kΩ, 5%, 1/4W
R257	141096	CF, 100kΩ, 5%, 1/4W
R258	141088	CF, 47kΩ, 5%, 1/4W
R259	141057	CF, 2.2kΩ, 5%, 1/4W
R260	141152	CF, 47Ω, 5%, 1/4W
R261	141057	CF, 2.2kΩ, 5%, 1/4W
R262	141025	CF, 100Ω, 5%, 1/4W
R263	141080	CF, 22kΩ, 5%, 1/4W
R264	141084	CF, 33kΩ, 5%, 1/4W
R265	141084	CF, 33kΩ, 5%, 1/4W
R266	141088	CF, 47kΩ, 5%, 1/4W
R267	141098	CF, 120kΩ, 5%, 1/4W
R268	141025	CF, 100Ω, 5%, 1/4W
*R269	134404	POT, 220kΩ
R270	141096	CF 100kΩ, 5%, 1/4W
R271	141076	CF, 15kΩ, 5%, 1/4W
R272	141112	CF, 470kΩ, 5%, 1/4W
R273	141096	CF, 100kΩ, 5%, 1/4W
R274	141096	CF, 100kΩ, 5%, 1/4W
R275	141047	CF, 820Ω, 5%, 1/4W
R276	141116	CF, 680kΩ, 5%, 1/4W
R277	141112	CF, 470kΩ, 5%, 1/4W
*R278	144113	MF, 100kΩ, 1%, 1/4W
*R279	144113	MF, 100kΩ, 1%, 1/4W
*R280	144113	MF, 100kΩ, 1%, 1/4W
R281	141025	CF, 100Ω, 5%, 1/4W
*R282	144113	MF, 100kΩ, 1%, 1/4W
R283	141047	CF, 820Ω, 5%, 1/4W
R284	141084	CF, 33kΩ, 5%, 1/4W
R285	141072	CF, 10kΩ, 5%, 1/4W
*R286	144020	CF, 5.11kΩ, 2%, 1/4W
R287	141104	CF, 220kΩ, 5%, 1/4W
*R288	134402	POT, 3.3kΩ
R289	141096	CF, 100kΩ, 5%, 1/4W
R290	141084	CF, 33kΩ, 5%, 1/4W
R291	141049	CF, 1kΩ, 5%, 1/4W
R292	141049	CF, 1kΩ, 5%, 1/4W
R293	141037	CF, 330Ω, 5%, 1/4W
R294	141064	CF, 4.7kΩ, 5%, 1/4W
*R295	144155	MF, 51.1kΩ, 1%, 1/4W
R296	141096	CF, 100kΩ, 5%, 1/4W
R297	141080	CF, 22kΩ, 5%, 1/4W
R298	141064	CF, 4.7kΩ, 5%, 1/4W
R299	141064	CF, 4.7kΩ, 5%, 1/4W
*R2001	134404	POT, 220kΩ
R2002	144155	MF, 51.1kΩ, 1%, 1/4W
R2003	141080	CF, 22kΩ, 5%, 1/4W
R2004	141064	CF, 4.7kΩ, 5%, 1/4W
R2005	141025	CF, 100Ω, 5%, 1/4W
R2006	141072	CF, 10kΩ, 5%, 1/4W
R2007	141108	CF, 330kΩ, 5%, 1/4W
R2008	141136	CF, 10Ω, 5%, 1/4W
R2009	141100	CF, 150kΩ, 5%, 1/4W
R2010	141110	CF, 390kΩ, 5%, 1/4W
R2011	141096	CF, 100kΩ, 5%, 1/4W
R2012	141064	CF, 4.7kΩ, 5%, 1/4W
R2013	141064	CF, 4.7kΩ, 5%, 1/4W
R2014	141072	CF, 10kΩ, 5%, 1/4W
R2015	141072	CF, 10kΩ, 5%, 1/4W
R2016	141025	CF, 100Ω, 5%, 1/4W
R2017	141025	CF, 100Ω, 5%, 1/4W
R2018	141033	CF, 220Ω, 5%, 1/4W
R2019	141033	CF, 220Ω, 5%, 1/4W
R2020	141104	CF, 220kΩ, 5%, 1/4W
R2021	141104	CF, 220kΩ, 5%, 1/4W
R2022	141049	CF, 1kΩ, 5%, 1/4W
R2023	141037	CF, 330Ω, 5%, 1/4W
R2024	141082	CF, 27kΩ, 5%, 1/4W
R2025	141136	CF, 10Ω, 5%, 1/4W
R2026	141084	CF, 33kΩ, 5%, 1/4W
TRANSFORMERS		
*T201	162101	FM Mixer
*T202	162102	FM Discriminator (Primary)
*T203	162103	FM Discriminator (Secondary)

* Parts marked with an asterisk (*) are replacement parts stocked by our Service Department and must be ordered from McIntosh. These parts must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.