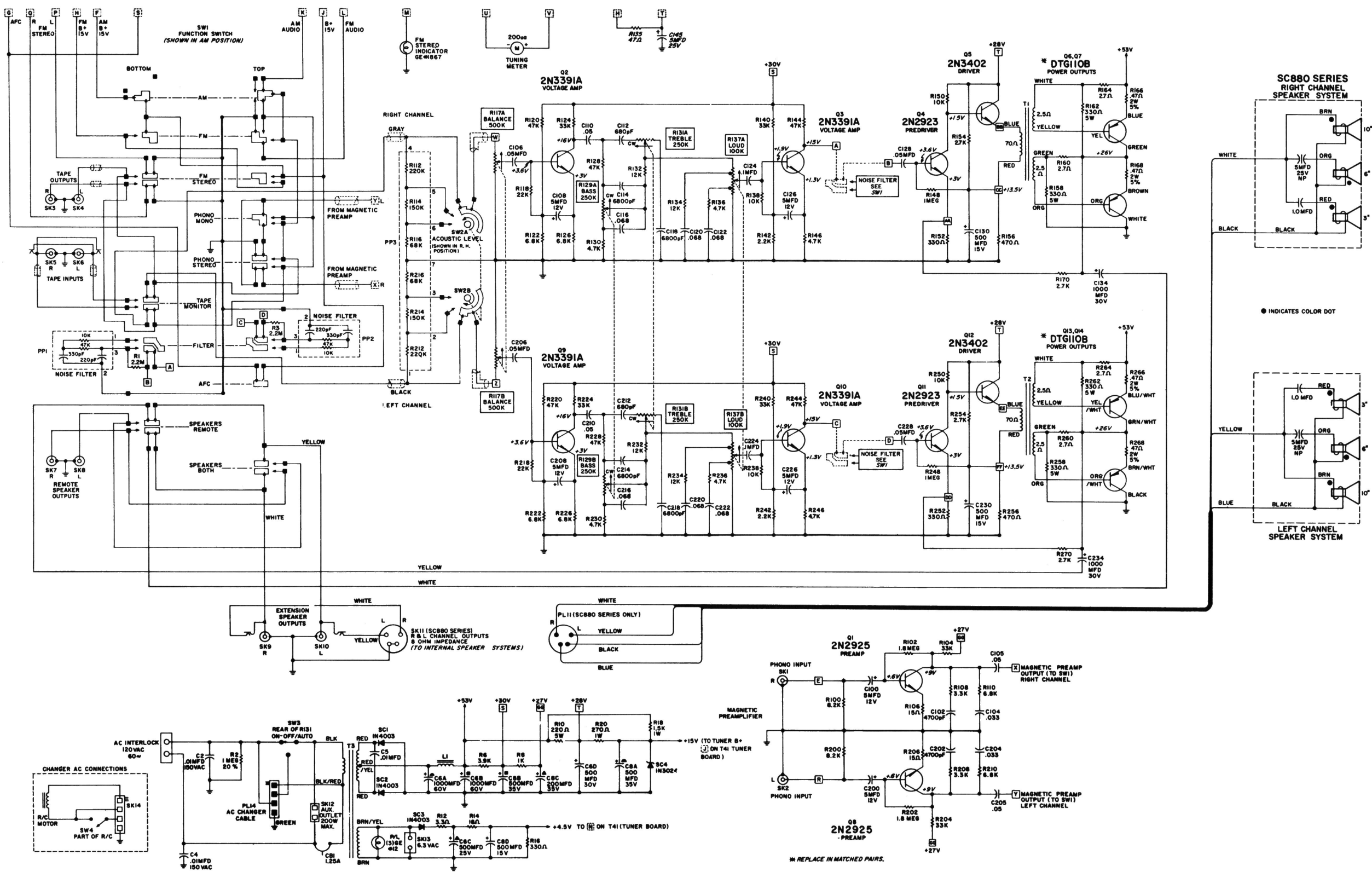


Sylvania Stereo Hi-Fi Amplifier Chassis R14-2,-3

SCHEMATIC DIAGRAM



SCHEMATIC NOTES

1. Voltages shown are average readings measured to chassis with no signal input. Variations may be noted due to normal production tolerances.
2. AC Power source: 120 VAC, 60 cycle.
3. All DC voltages measured with a DC VTVM.
4. Base to emitter potential will vary from approx. 0.2V to 0.6V.
5. Capacitors in microfarads unless otherwise specified.

CHASSIS REMOVAL

1. Disconnect AC power plug from power outlet.
2. IDENTIFY and disconnect the following:
 - A. Antenna lead connections on antenna terminal board.
 - B. Record changer power plug on record changer.
 - C. Phono input leads on chassis.
 - D. Cabinet pilot lamp connector on bottom rear of chassis.
 - E. Speaker connector plug on bottom of jack plate.
3. Remove screws anchoring AC interlock to the base of the cabinet.
4. Remove the two (2) screws securing antenna terminal board to cabinet.
5. Remove the jack plate from the rear of the cabinet. (After chassis is removed, fasten the jack plate to the front panel of the chassis.)
6. Remove control knobs and push buttons on the control panel by pulling straight up.
7. Remove four (4) screws securing escutcheon to chassis.
8. Remove screws securing chassis to chassis pan. Pull top of chassis out (to free chassis tabs from pan) and down; remove chassis from cabinet.

ELECTRICAL SPECIFICATIONS

Rated EIA Music Power: 80 watts	FM Quieting Sensitivity: $2\mu V$
Peak Power: 130 watts	FM Sensitivity (HF): $3\mu V$
Amplifier Frequency Response: 15 - 100,000 c.p.s. ± 3 db	Full Limiting: $5\mu V$
Power Response: 20 - 30,000 c.p.s. (half power points)	FM Stereo Separation: 35 db
Distortion: 0.7% total harmonic distortion at 20 watts per channel.	Speaker Impedance: 8 ohms
	Stylus Pressure: 3 ± 0.5 grams

AIR SUSPENSION SPEAKER SYSTEM

The two separate speaker chambers are built to a carefully-calculated size and have a predetermined volume of air - - - sealed to function as an air tight infinite baffle. Speaker replacement is accomplished from the REAR of the cabinet only. Access to the speakers is provided when the back panel of the speaker chamber is removed.

SC886 - GRILLE FRAMEWORK REMOVAL FOR CURTAIN REPLACEMENT

The grille framework is held in place by a series of snap type fasteners at the top of the cabinet. To free the grille framework, remove the one (1) bronze Phillips head screw located in the record well. The screw is approximately at the center of the panel behind the grille. Once this screw is removed; carefully pull grille framework outward to free it from the fasteners. Lift up to free tongue from groove along bottom edge of cabinet. Remove grille framework.

NOTE: Curtains must be of acoustical material.

LAMP REPLACEMENT

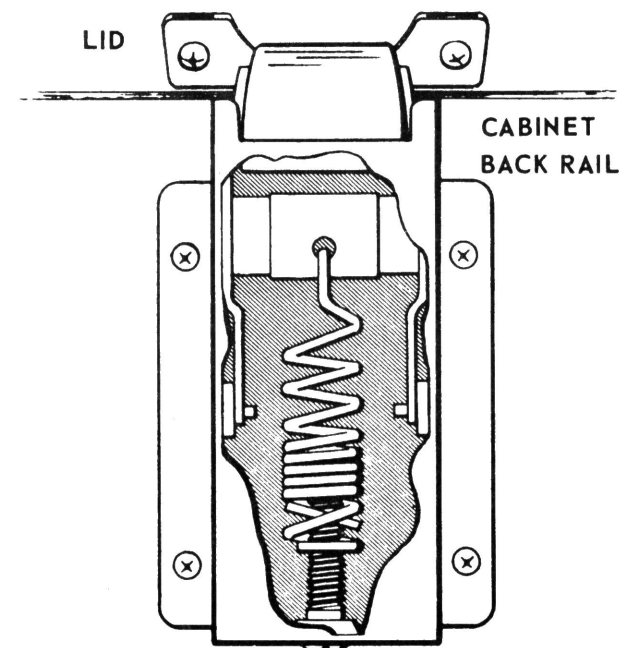
Cabinet Pilot Lamp Replacement - Use Sylvania Part #611-0012 (GE#12) or EQUIVALENT TYPE BULB. Remove lamp holder at the inside bottom center of the cabinet to gain access to the bulb.

Dial Glass and Tuning Meter Lamp Replacement - Use Sylvania Part #611-0012 (GE#12) or EQUIVALENT TYPE BULB. Remove chassis as outlined under CHASSIS REMOVAL to gain access to the bulbs.

Stereo Indicator Lamp Replacement - Use Sylvania Part #30-14005-1 (GE#1867) or EQUIVALENT TYPE BULB. Remove chassis as outlined under CHASSIS REMOVAL to gain access to the bulb.

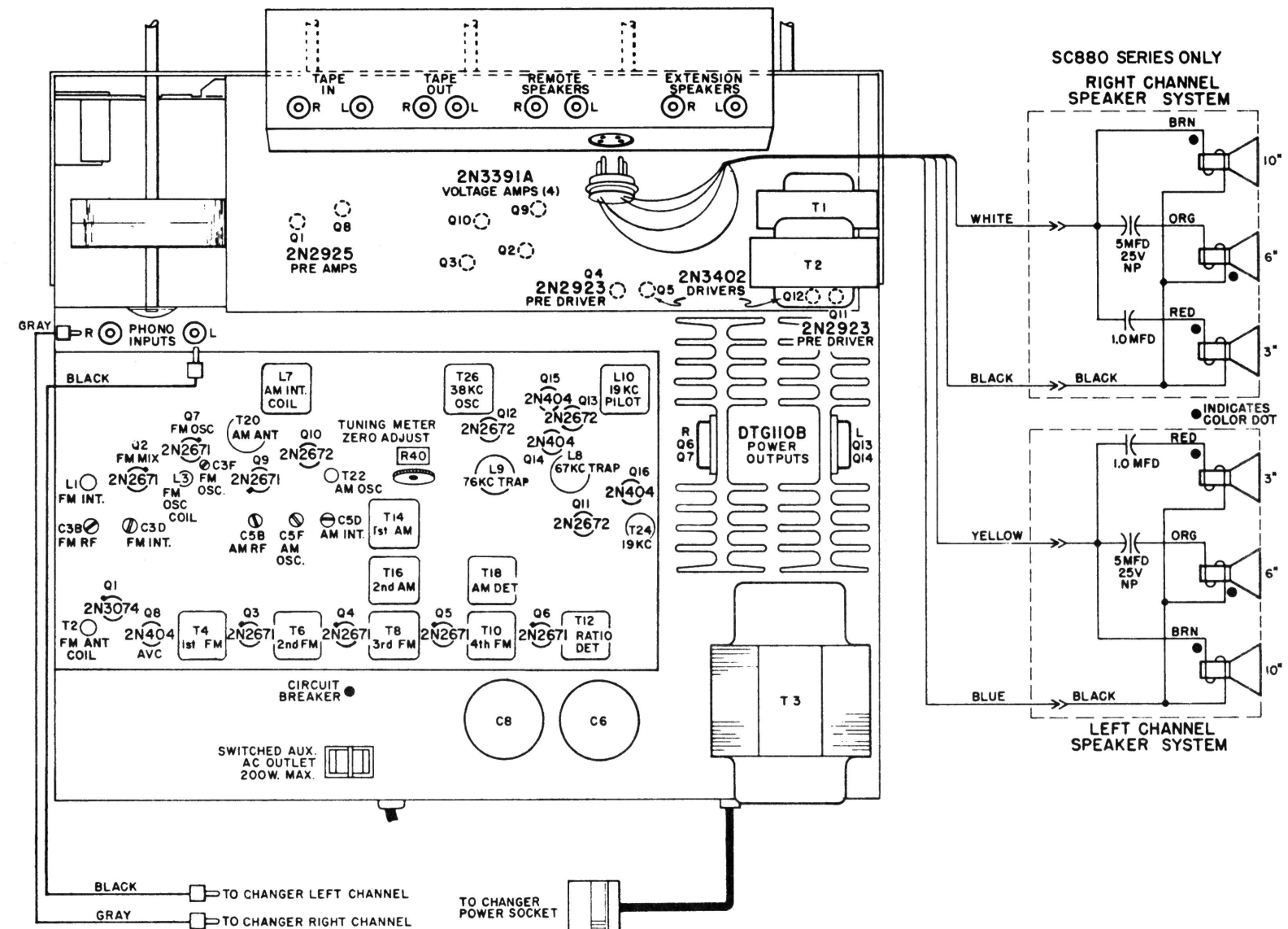
Record Changer Compartment Lamp Replacement - Use Sylvania Part #611-0012 (GE#12) or EQUIVALENT TYPE BULB. Remove front panel inside the Record Changer compartment. The lamp is located behind the lens, accessible only after the panel is removed.

HINGE ADJUSTMENT



LID SUPPORT ADJUSTMENT SCREW
(Adjust when lid is open. Screw adjusts tension on spring. When properly adjusted, lid should stay in place when opened 4" - 5".)

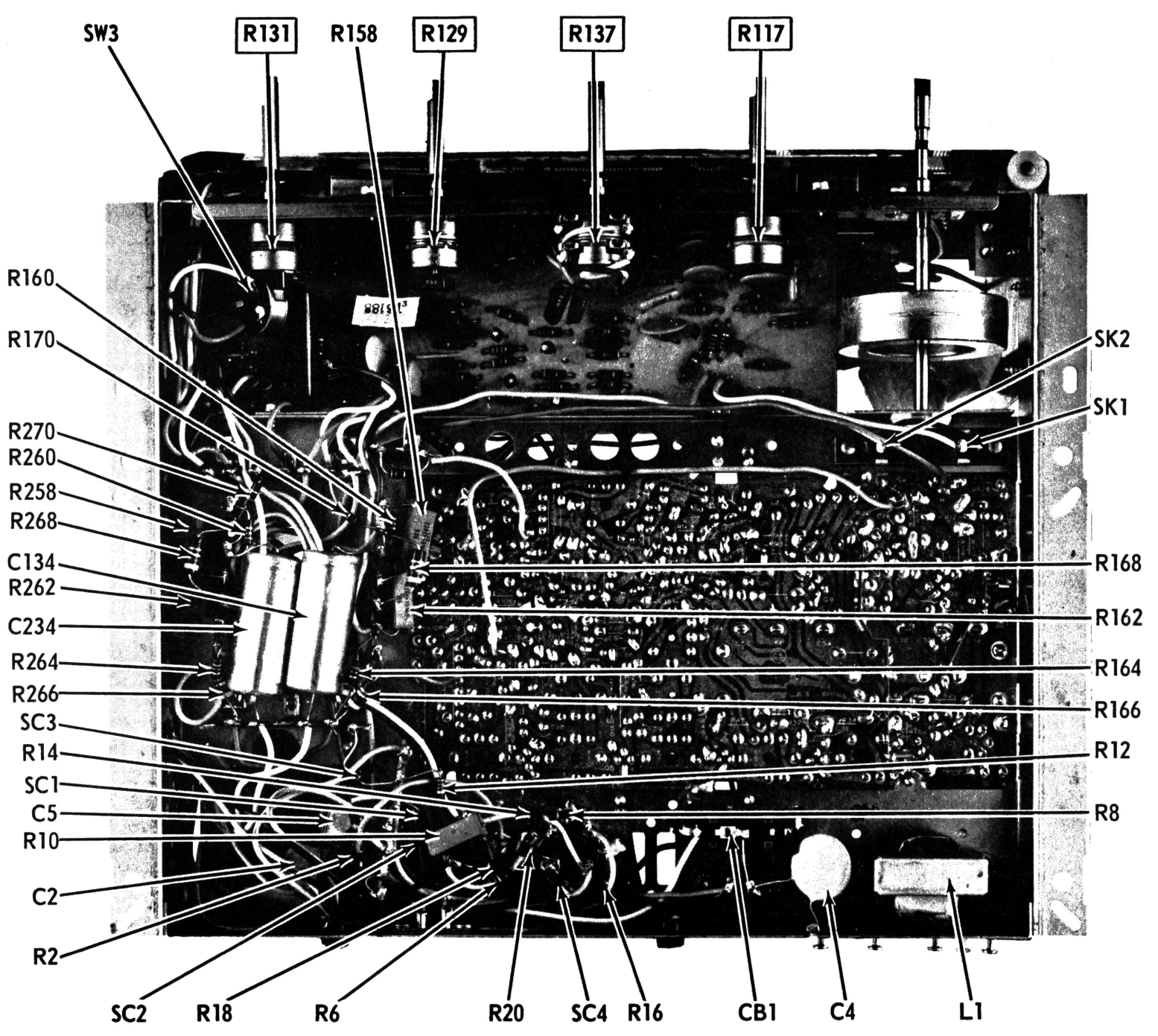
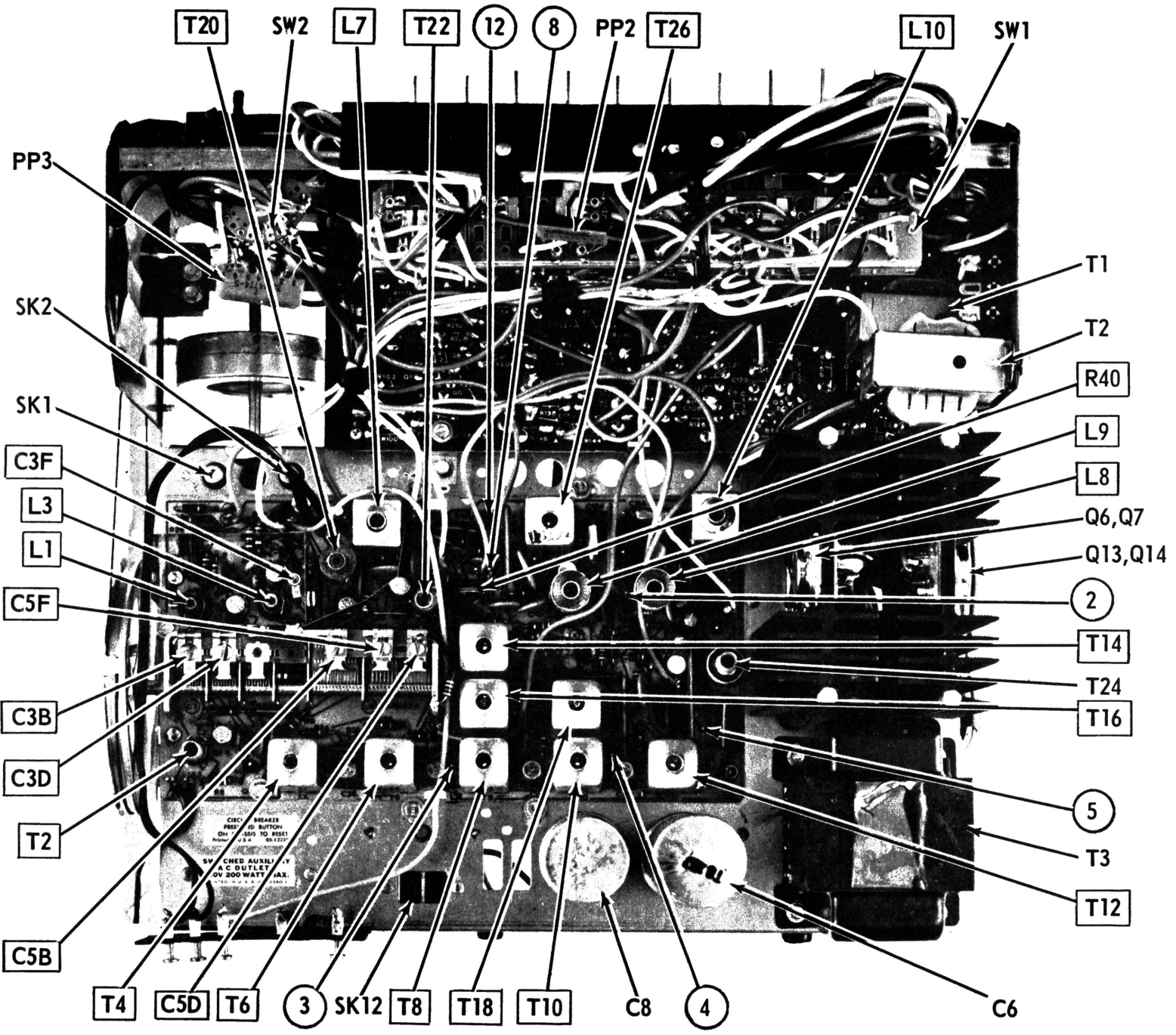
CHASSIS LAYOUT SC880 SERIES



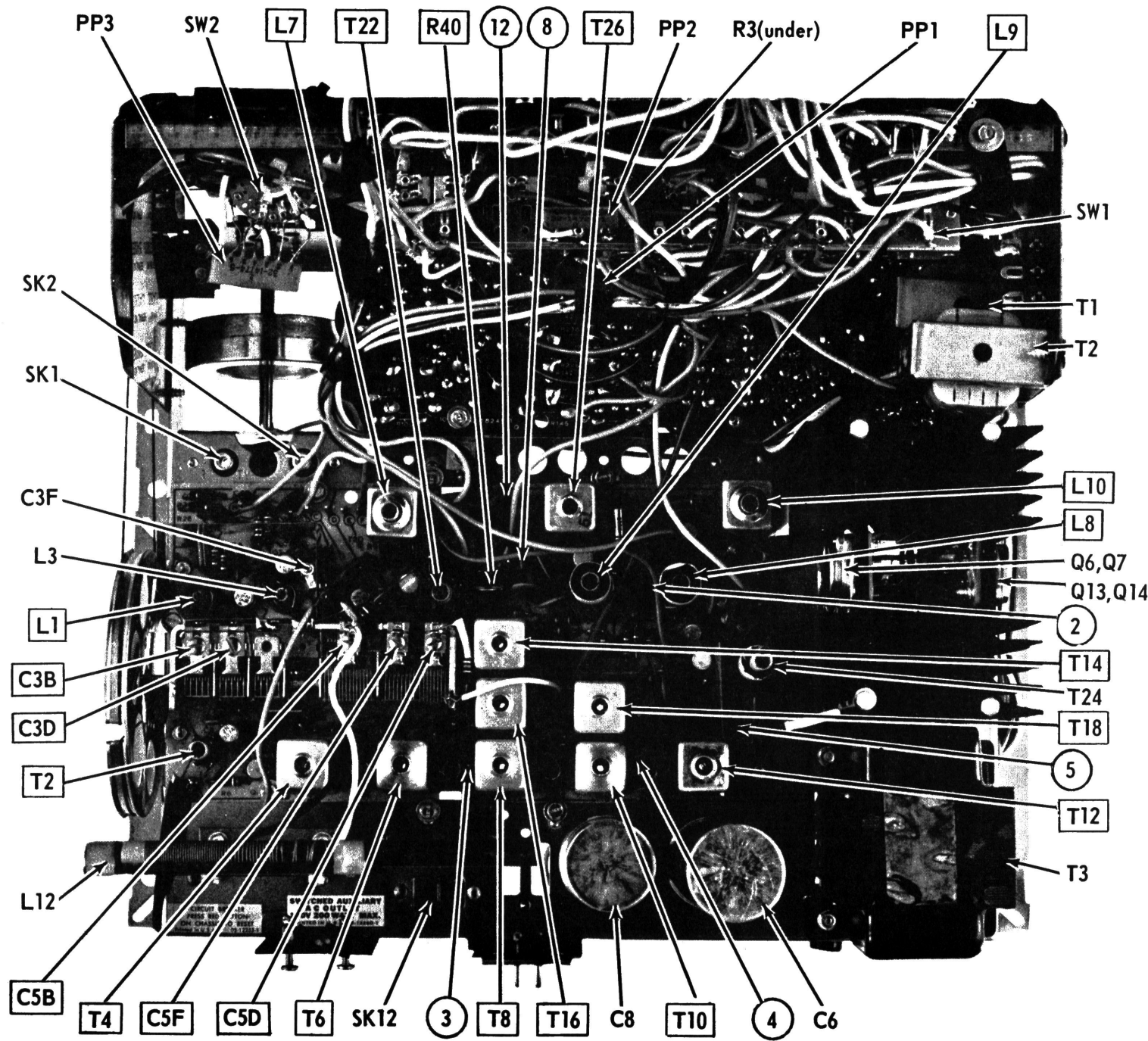
Sylvania Stereo Hi-Fi Amplifier Chassis R14-2,-3

———— R14-2 CHASSIS TOP VIEW ————

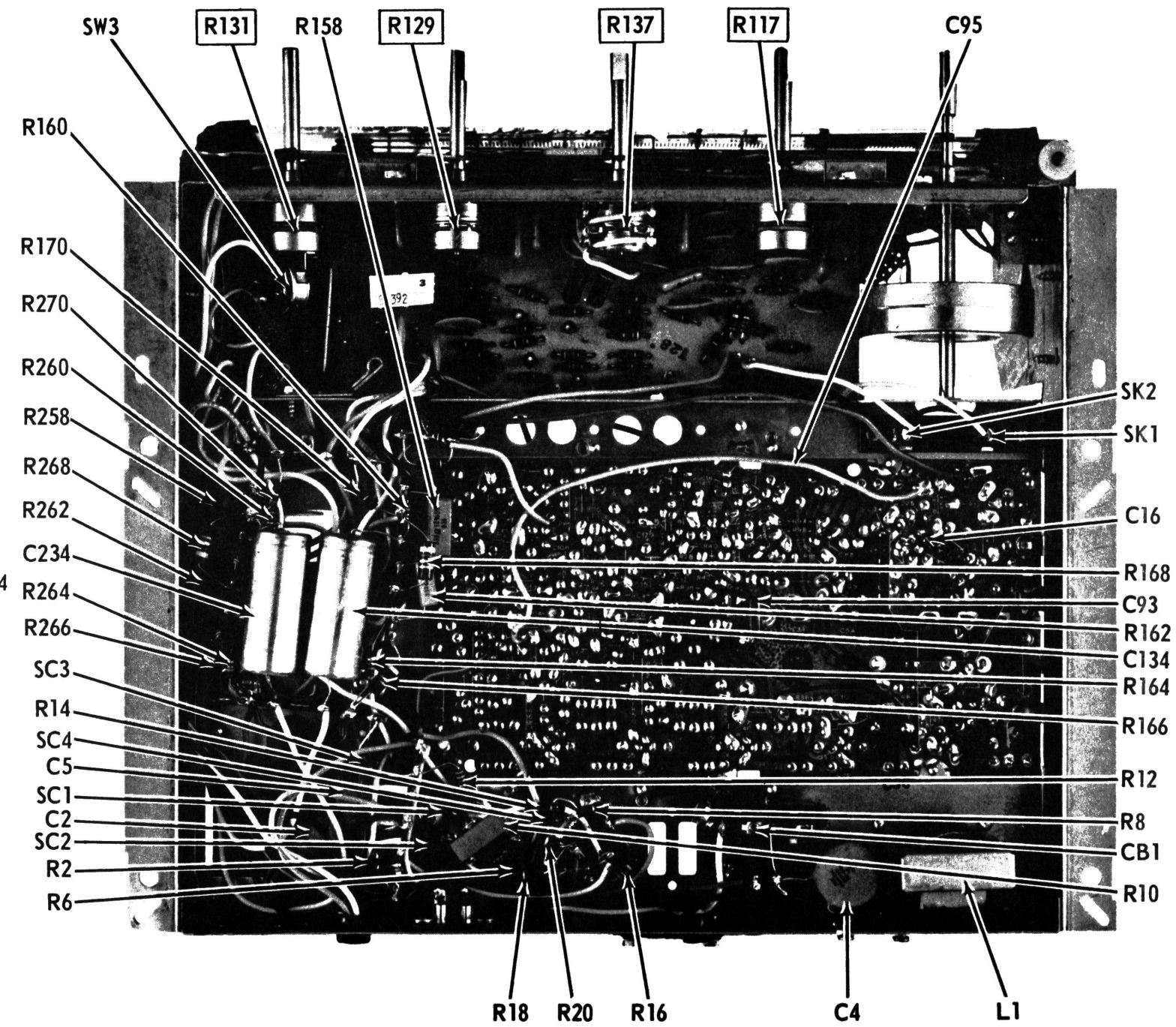
———— R14-2 CHASSIS BOTTOM VIEW ————



— R14-3 CHASSIS TOP VIEW —



— R14-3 CHASSIS BOTTOM VIEW —

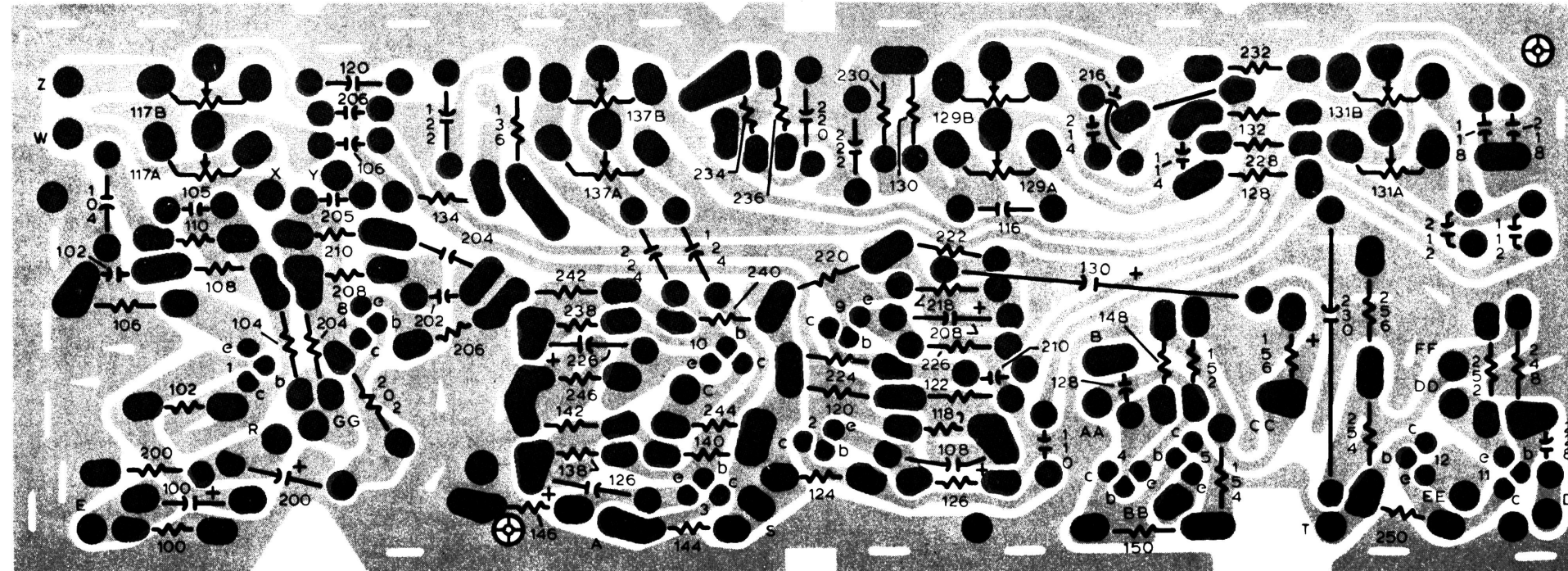


Sylvania Stereo Hi-Fi Amplifier Chassis RI4-2,-3

CABINET PARTS LIST

DESCRIPTION	MODELS							
	SC881	SC883	SC884	SC885	SC886	SC887	SC888	CS10
Back Cover	85-18495-1	85-18495-2	85-18515-1	85-18515-2	85-18515-2	85-18495-2	85-18495-2	
Bezel - Control Escutcheon	74-18090-1	74-18090-1	74-18090-1	74-18090-1	74-18090-1	74-18090-1	74-18090-1	74-18090-1
Bezel - Overlay	74-18092-1	74-18092-1	74-18092-1	74-18092-1	74-18092-1	74-18092-1	74-18092-1	74-18092-1
Button - Level Switch	74-18213-1	74-18213-1	74-18213-1	74-18213-1	74-18213-1	74-18213-1	74-18213-1	74-18213-1
Cabinet								
Curtain		10-96198-78			10-96198-74		10-96198-79	
Grille - RH	10-88872-39					*74-18669-1		
- LH	10-88872-40					(*Set of Two)		
Grille - Metal		74-86784-9					74-86784-10	
Grille - Metal w/Panel					74-86784-5			
Pulls (Door)			74-86842-80					74-18779-1
Pulls (Drawer)			74-86842-79					
Back Plate (Door pulls)			74-86842-81					
Hinge	70-83929-11	70-83929-11	70-83929-11	70-83929-11	70-83929-11	70-83929-11	70-83929-11	70-83929-35
Lid Support	74-96125-10	74-96125-10	74-96125-10	74-96125-10	74-96125-10	74-96125-10	74-96125-10	74-96125-1
Tutch Latch	70-56693-2	70-56693-2				70-56693-2	70-56693-2	
Strike	70-56693-3	70-56693-3				70-56693-3	70-56693-3	
Spring Latch	77-18601-1	77-18601-1				77-18601-1	77-18601-1	
Catch w/Strike	70-56693-5	70-56693-5					70-56693-5	
Casters			70-18651-1	70-18651-1	70-18651-1			
Bracket - Caster Mtg.			10-86915-28	10-86915-28	10-86915-29			
Foot - Cabinet								74-18784-1
Frame - Glass Door								74-18778-1
Panel - Glass (Sliding)								74-18781-1
Panel - Glass (Fixed)								74-18781-2
Cartridge	11-14704-1	11-14704-1	11-14704-1	11-14704-1	11-14704-1	11-14704-1	11-14704-1	11-14704-1
Stylus	11-10329-17	11-10329-17	11-10329-17	11-10329-17	11-10329-17	11-10329-17	11-10329-17	11-10329-17
Clip - Small Spindle	70-14178-2	70-14178-2	70-14178-2	70-14178-2	70-14178-2	70-14178-2	70-14178-2	
Cup - 45 RPM Spindle	74-98769-1	74-98769-1	74-98769-1	74-98769-1	74-98769-1	74-98769-1	74-98769-1	
Jewel - Cabinet	74-14843-5	74-14843-5	74-14843-5	74-14843-5	74-14843-5	74-14843-5	74-14843-5	
Lens - Compartment Light	74-14150-1	74-14150-1	74-14150-1	74-14150-1	74-14150-1	74-14150-1	74-14150-1	74-14150-1
Knob - Control - Treble, Bass, Loudness, Balance	74-18165-1	74-18165-1	74-18165-1	74-18165-1	74-18165-1	74-18165-1	74-18165-1	74-18165-1
- Tuning	74-18165-2	74-18165-2	74-18165-2	74-18165-2	74-18165-2	74-18165-2	74-18165-2	74-18165-2
Insert - Knob - Treble, Bass, Loudness, Balance	74-18166-1	74-18166-1	74-18166-1	74-18166-1	74-18166-1	74-18166-1	74-18166-1	74-18166-1
- Tuning	74-18166-2	74-18166-2	74-18166-2	74-18166-2	74-18166-2	74-18166-2	74-18166-2	74-18166-2
Push - Button	74-14666-2	74-14666-2	74-14666-2	74-14666-2	74-14666-2	74-14666-2	74-14666-2	74-14666-2
Spindle - 45 RPM	11-14132-1	11-14132-1	11-14132-1	11-14132-1	11-14132-1	11-14132-1	11-14132-1	11-14132-1
Speakers - 3" PM	12-18484-1	12-18484-1	12-18484-1	12-18484-1	12-18484-1	12-18484-1	12-18484-1	
- 6" PM	12-18503-1	12-18503-1	12-18503-1	12-18503-1	12-18503-1	12-18503-1	12-18503-1	
- 10" PM	12-18486-1	12-18486-1	12-18486-1	12-18486-1	12-18486-1	12-18486-1	12-18486-1	
Capacitor - 5 mfd /25V - Crossover Network	41-14304-3	41-14304-3	41-14304-3	41-14304-3	41-14304-3	41-14304-3	41-14304-3	
Capacitor - 1 MFD/25 VNP - Crossover Network	41-14304-1	41-14304-1	41-14304-1	41-14304-1	41-14304-1	41-14304-1	41-14304-1	
Speaker - Output Plug (4 Connector)	73-18521-1	73-18521-1	73-18521-1	73-18521-1	73-18521-1	73-18521-1	73-18521-1	

BOTTOM ROADMAP



REPLACEMENT PARTS LIST

SCHMATIC LOCATION	SERVICE PART NO.	DESCRIPTION
CAPACITORS (all 10% - 500V ceramic unless otherwise specified)		
C2, C4	169-0138	.01 MFD - AC Bypass - 150 VAC
C5		.01 MFD
C6	41-18152-1	4 Section Electrolytic
A		1000 MFD - 60V
B		1000 MFD - 60V
C		500 MFD - 25V
D		500 MFD - 30V
C8	41-18151-2	4 Section Electrolytic
A		500 MFD - 35V
B		500 MFD - 35V
C		200 MFD - 35V
D		500 MFD - 15V
C100	41-18226-4	5 MFD - Electrolytic - 12V
C102		4700 pF
C104		.033 MFD
C105, C106		.05 MFD
C108	41-18226-4	5 MFD - Electrolytic - 12V
C110		.05 MFD
C112		680 pF
C114		6800 pF
C116		.068 MFD
C118		6800 pF
C120		.068 MFD
C122		.068 MFD
C124		.1 MFD
C126	41-18226-4	5 MFD - Electrolytic - 12V
C128		.05 MFD
C130	41-18227-12	500 MFD - Electrolytic -15V
C134	41-18230-13	1000 MFD - Electrolytic -30V
C200	41-18226-4	5 MFD - Electrolytic - 12V
C202		4700 pF
C204		.033 MFD
C205		.05 MFD
C206		.05 MFD
C208	41-18226-4	5 MFD - Electrolytic - 12V
C210		.05 MFD
C212		680 pF
C214		6800 pF
C216		.068 MFD
C218		6800 pF
C220		.068 MFD
C222		.068 MFD
C224		.1 MFD
C226	41-18226-4	5 MFD - Electrolytic - 12V
C228		.05 MFD
C230	41-18227-12	500 MFD - Electrolytic - 15V
C234	41-18230-13	1000 MFD - Electrolytic - 30V

SCHMATIC LOCATION	SERVICE PART NO.	DESCRIPTION
RESISTORS (all 1/2W - 10% carbon unless otherwise specified)		
R1, R3		2.2 Megohm
R2		1 Megohm - 20%
R6		3.9K
R8		1K
R10	36-62454-57	220 ohm - 5W
R12		3.3 ohm
R14		18 ohm
R16		330 ohm
R18		1.5K - 1W
R20		270 ohm - 1W
R100		8.2K
R102		1.8 Megohm
R104		33K
R106		15 ohm
R108		3.3K
R110		6.8K
R112, R114, R116	Part of PP1	See "Misc. Elec. Parts"

SCHMATIC LOCATION	SERVICE PART NO.	DESCRIPTION
RESISTORS (CONTINUED)		
R117	37-18121-3	Dual Balance Control
A		500K - RC
B		500K - LC
R118		22K
R120		47K
R122		6.8K
R124		33K
R126		6.8K
R128		47K
R129	37-18121-2	Dual Bass Control
A		250K - RC
B		250K - LC
R130		4.7K
R131	37-18121-1	Dual Treble Control
A		250K - RC
B		250K - LC
R132, R134		12K
R136		4.7K
R137	37-18123-1	Dual Loudness Control
A		100K - RC
B		100K - LC
R138		10K
R140		33K
R142		2.2K
R144		47K
R146		4.7K
R148		1 Megohm
R150		10K
R152		330 ohm
R154		2.7K
R156		470 ohm
R158	36-62454-61	330 ohm - 5W
R160, R164		2.7 ohm
R162	36-62454-61	330 ohm - 5W
R166, R168	36-14764-4	.47 ohm - 2W - 5%
R170		2.7K
R200		8.2K
R202		1.8 Megohm
R204		33K
R206		15 ohm
R208		3.3K
R210		6.8K
R212, R214,	Part of PP1	See "Misc. Elec. Parts"
R216	Part of PP1	See "Misc. Elec. Parts"
R218		22K
R220		47K
R222		6.8K
R224		33K
R226		6.8K
R228		47K
R230		4.7K
R232, R234		12K
R236		4.7K
R238		10K
R240		33K
R242		2.2K
R244		47K
R246		4.7K
R248		1 Megohm
R250		10K
R252		330 ohm
R254		2.7K
R256		470 ohm
R258	36-62454-61	330 ohm - 5W
R260		2.7 ohm
R262	36-62454-61	330 ohm - 5W
R264		2.7 ohm
R266, R268	36-14764-4	.47 ohm - 2W - 5%
R270		2.7K

SCHMATIC LOCATION	SERVICE PART NO.	DESCRIPTION
TRANSFORMERS AND CHOKES		
L1	56-14601-2	Transformer - Choke
T1, T2	56-18118-1	Transformer - Driver
T3	55-18086-1	Transformer - Power
MISCELLANEOUS ELECTRICAL PARTS AND TRANSISTORS		
CBI	29-14226-2	Circuit Breaker
PP1, PP2	32-14724-1	Plate - Noise Filter
PP3	32-14774-5	Plate - Acoustic Level
R112, R212		220K
R114, R214		150K
R116, R216		68K
SC1, SC2	13-17174-1	Diode - Rectifier/1N4003
SC3	13-18458-1	Diode - Rectifier/1N4003
SC4	13-14879-1	Diode - Zener/1N3024
SK1, SK2	73-18137-2	Socket - Phono Input
SK3, SK4	73-98079-2	Socket - Tape Out
SK5, SK6	73-18519-1	Socket - Tape In
SK7, SK8	73-14829-1	Socket - Remote Speakers
SK9, SK10	73-18519-1	Socket - Extension Speakers
SK11	73-40669-1	Socket - Speaker Output
PL11	73-18521-1	Plug - Speaker Output
SK12	417-0009	Socket - Aux. Outlet
SK13	73-14688-1	Socket - Cabinet Light
SK14	Part of R/C	Socket - R/C Motor
PL14	73-10302-4	Plug - R/C Motor
SW1	33-18191-1	Switch - Function (10 Push-Button)
SW2	33-18192-1	Switch - Acoustic Level
SW3	Part of R131	Switch - On/Off
SW4	Part of R/C	Switch - Off/Manual/Auto
Q1, Q4	13-18363-1	Transistor - 2N2923, 2N2925
Q8, Q11	13-18363-1	Transistor - 2N2923, 2N2925
Q2, Q3,	13-18364-1	Transistor - 2N3391A
Q9, Q10	13-18364-1	Transistor - 2N3391A
Q5, Q12	13-18087-2	Transistor - 2N3402
Q6, Q7	13-18642-1	Transistor - DTG110B
Q13, Q14	13-18642-1	Transistor - DTG110B

SERVICE PART NO.	DESCRIPTION
CHASSIS PARTS	
73-89236-3	AC Interlock Assembly
195-0061	AC Line Cord
81-87861-1	Retainer - AC Line Cord
73-10380-1	Antenna Board (SC880 Series)
73-18791-1	Antenna Board (CS10)
74-18190-1	Dial - Background Overlay
74-18426-2	Dial - Glass
74-18182-1	Dial Pointer
81-18133-1	Dial Drive Drum
611-0012	Lamp - Pilot (GE#12)
30-14005-1	Lamp - Stereo Indicator (GE#1867)
74-18140-1	Jewel - Stereo Indicator
86-14608-1	Mica Insulator/Pwr. Transistor
72-14607-1	Socket - Power Transistor
411-0043	Socket - Pilot Lamp /Clip
73-14973-3	Socket - Pilot Lamp
411-0045	Socket - Pilot Lamp (Cabinet)
73-14874-2	Socket - Stereo Ind. Lamp
415-0010	Plug - Pilot Lamp (SK13)
81-18201-1	Slide - Acoustic Level Switch
81-18209-1	Pivot - Acoustic Level Switch
81-18212-3	Shaft - Acoustic Level Switch
84-14156-8	Shaft and Flywheel Assembly
496-0275	Spring - Dial Drive
25-18148-1	Tuning Meter
77-14867-1	Clip - Tuning Meter Mtg.