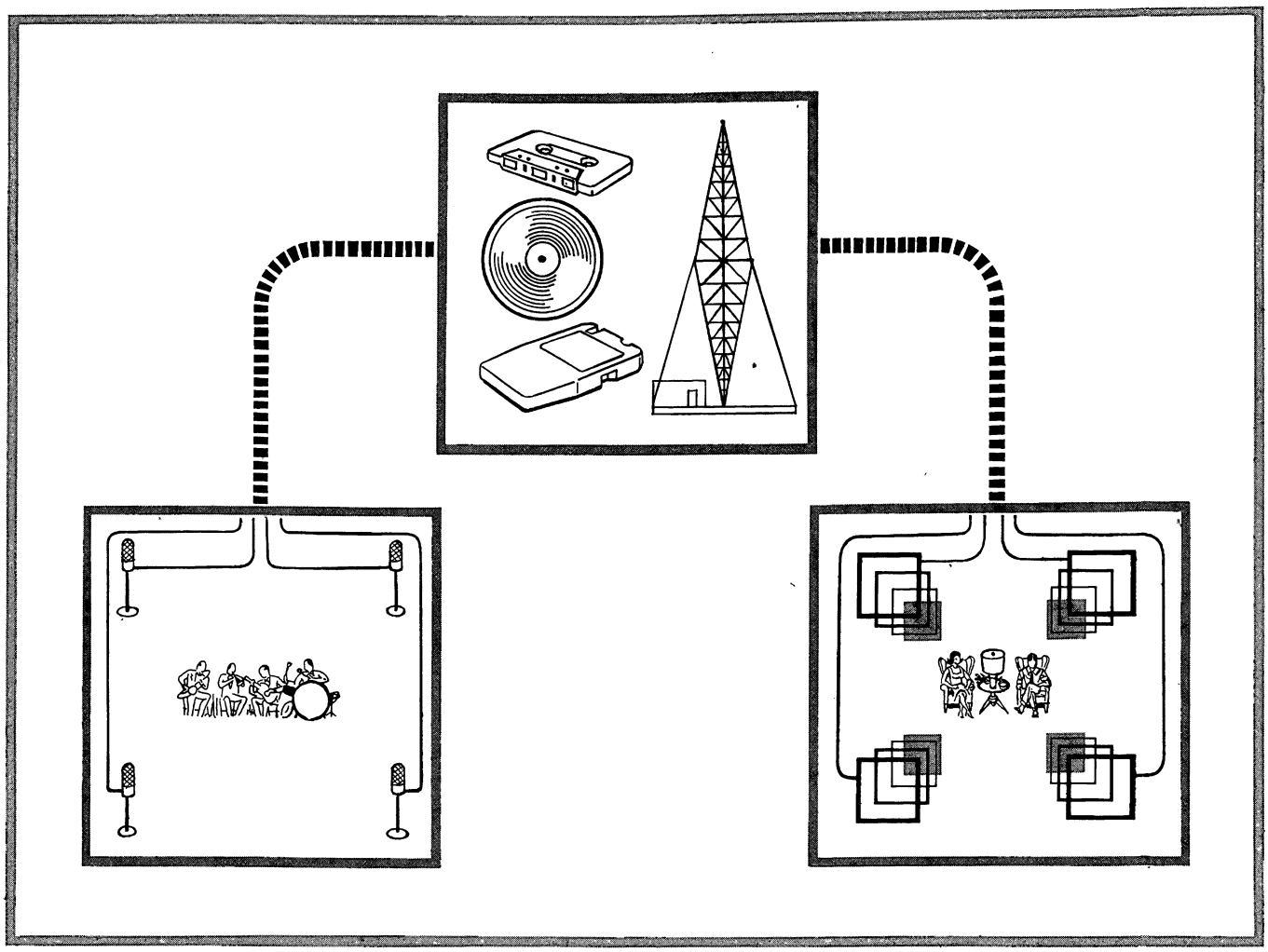
HF-32S1

HF-32S1

ZENITH®

SERVICE MANUAL



MODULAR AND CONSOLE AUDIO PRODUCTS

ZENITH RADIO CORPORATION

PARTS AND SERVICE DIVISION

11000 SEYMOUR AVENUE, FRANKLIN PARK, ILLINOIS 60131

HF-32S1
25M – CPC

PRINTED IN U.S.A.
FEBRUARY, 1977

PART NO. 923-895
$1.00

To the Service Technician

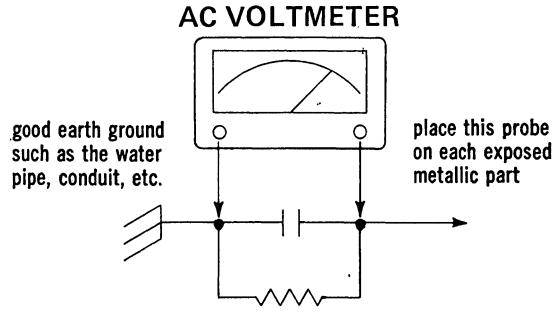
PRODUCT SAFETY SERVICING GUIDELINES FOR ALL AUDIO AMPLIFIERS AND RADIO RECEIVERS

CAUTION: No modification of any circuit should be attempted. Service work should be performed only after you are thoroughly familiar with all of the following safety checks and servicing guidelines. To do otherwise increases the risk of potential hazards and injury to the user.

SAFETY CHECKS

SUBJECT: Fire & Shock Hazard

1. Be sure that all components are positioned in such a way to avoid possibility of adjacent components shorts. This is especially important on those chassis which are transported to and from the repair shop.
2. Always replace all protective devices such as insulators and barriers after working on a receiver.
3. Check for fraved insulation on wires including the AC cord. Also check across-the-line components for damage and replace if necessary.
4. All fuses and certain resistors and capacitors which are of the flameproof type (shaded on the schematic diagrams and parts lists) must be replaced with exact Zenith types to prevent potential fire hazard.
5. After re-assembly of the set always perform an AC leakage test on the exposed metallic parts of the cabinet such as the knobs, antenna terminals, etc. to be sure the set is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this test. Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner: Connect a 1500 ohm 10 watt resistor, (63-10401-76) paralleled by a .15 mfd, AC type capacitor (22-4384) between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination 1500 ohm resistor and .15 mfd. capacitor. Reverse the AC plug on the set and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed .3 volts RMS. This corresponds to 0.2 milliamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



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TECHNICAL APPLICATIONS INDEX

Various "HF" series service manuals contain information relating to solid state device theory, operation and circuit applications as introduced into our products. In addition, service procedures are also explained, if required, in the appropriate service manuals. Such information has been included in the following service manuals:

HF 18: Theory – Diodes (Including Zener and SCR), Transistors, (PNP, NPN, Darlington, and JFET). Applications – Chassis 29AT24 (JFET FM-RF, Multiplex, Electronic Touch Switching), Complementary Symmetry, Chassis 11ZT27 (Electronic Filter).

HF 22: Theory – JFET, IGFET, MOSFET. Applications – Dual Gate MOSFET FM-RF, JFET Biplex Detector, Quasi-Complementary Symmetry.

HF 23: Applications – Model C9029/Chassis 15WCA10 Four Channel Decoder.

HF 26: Applications – Chassis 15WDR51 (JFET Meter Circuit, Multiplex IC, Four Channel Decoding).

HF 27: Applications – Model SD2568 Speaker Switching Circuitry.

HF 28: Applications – Model D9013W Allegro Speaker System.

HF 29: Theory – Light Emitting Diodes (LED). Applications – Three Light Tuning (Target Tuning), Multiplex IC.

HF 29S1: Applications – Snap-off Escutcheon and Out Front Chassis Removal, "E" Line Models.

HF 30: Applications – Snap-off Escutcheon and Out Front Chassis Removal, "F" Line Models.

HF 31: Theory and Applications - Chassis 12WGR59 (Ceramic Filters, IF IC, Quadrature Detector, Interstation Muting, PLL Multiplex IC, Audio). General Product Information – Audio Circuitry (including Two on Two Speaker Matrix, Allegro Speaker Systems), "G" Line Disassembly Procedures.

HF 31S2: Applications – Four Channel Sound Reproduction Input Vs. Output, Repairing Push Button Switches, Record Changer and Phono Cartridge Inter Changeability, Chassis 12WGR59 Accessibility.

HF 32: Applications – "H" Line Disassembly Procedures, Part Number Identification, Record Changer and Phono Cartridge Interchangeability, Allegro Speaker Systems and Repair Procedures.

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PRODUCT FEATURES
SEE NOTES ON PAGE 4

CABINET			CHASSIS		SPEAKERS			RECORD CHANGER	OTHER FEATURES		
MODEL	COLOR	STYLE NOTE A	MODEL	TYPE	PART NUMBER	IMPED. (In Ohms)	QTY. AND SIZE (In Inches)	PART NUMBER NOTE B	TAPE PROVISION NOTE C	SPEAKER PROVISION NOTE D	MISC. NOTE E
H584W	Walnut	M, LL	3WHR52	FM/AM/Phono	Note D2	–	–	169-511C	TM	2 on 2 A1,A2,A3	DL, H, PL, TIO, UNI
H587W	Walnut	M, LL	3WHR52	FM/AM/Phono/ Tape	Note D2	–	–	169-511C	8TK-P 169-520A or 169-492 or 169-458	2 on 2 A1,A2,A3	DL, H, PL, TIO, UNI
HR587W	Walnut	M, LL	3WHR52	FM/AM/Phono/ Tape	Note D2	–	–	169-511C	8TK-R/P 169-509B	2 on 2 A1,A2,A3	DL, H, PL, TIO, UNI
H590W	Walnut	M, LL	6WHR57	FM/AM/Phono/ Tape	Note D2	–	–	169-512A	8TK-P 169-510C or 169-510E	2 on 2 A1,A2,A3	AUX, DL, F, H, PL, T, TIO, UNI
HR590W	Walnut	M, LL	6WHR57	FM/AM/Phono/ Tape	Note D2	–	–	159-512A	8TK-R/P 169-507C or 169-507	2 on 2 A1,A2,A3	AUX, DL, F, H, PL, T, TIO, UNI
HR590W1	Walnut	M, LL	6WHR57	FM/AM/Phono/ Tape	Note D2	–	–	169-512A	8TK-R/P 169-507-02	2 on 2 A1,A2,A3	AUX, DL, F, H, PL, T, TIO, UNI
HR591W	Walnut	M, LL	6WHR57	FM/AM/Phono/ Tape	Note D2	–	–	169-512A	Cass-R/P 169-539	2 on 2 A1,A2,A3	AUX, DL, F, H, PL, T, TIO, UNI
H596W	Walnut	M, LL	12WHR29	FM/AM/Phono/ Tape	Note D2	–	–	169-513A	8TK-P 169-505B or 169-505D or 169-505A	2 on 2 A2,A3	AUX, DL, F, H, PL, T, TIO
HR596W	Walnut	M, LL	12WHR29	FM/AM/Phono/ Tape	Note D2	–	–	169-513A	8TK-R/P 169-506B or 169-506	2 on 2 A2,A3	AUX, DL, F, H, PL, T, TIO
HR684W	Walnut	M	6WHR56	FM/AM/Tape	Note D2	–	–	–	8TK-R/P 169-507C or 169-507	2 on 2 A1,A2,A3	AUX, F, H, PL, T, TIO, UNI
HR684W1	Walnut	M	6WHR56	FM/AM/Tape	Note D2	–	–	–	8TK-R/P 169-507-02	2 on 2 A1,A2,A3	AUX, F, H, PL, T, TIO, UNI
H736W1	Walnut	M, LL	6WGR91	FM/AM/Phono/ Tape	Note D2	–	–	169-512A	8TK-2/4P 169-518 or 169-471	A1,A2,A3	AUX, HH, PL, UNI
H900W	Walnut	C, LL	1WGR50	FM/AM/Phono/ Tape	49-1094 49-1153-01	45 16	2-3½ 2-6x9	169-541	8TK-R/P 169-536	–	DL, H, RS
H901P	Pecan	C, LL	1WGR50	FM/AM/Phono/ Tape	49-1094 49-1153-01	45 16	2-3½ 2-6x9	169-535A	8TK-P 169-536	–	DL, H, RS
H901P11	Pecan	C, LL	1WGR50	FM/AM/Phono/ Tape	49-1094 49-1153-01	45 16	2-3½ 2-6x9	169-541	8TK-P 169-536	–	DL, H, RS
HR901P	Pecan	C, LL	1WGR50	FM/AM/Phono/ Tape	49-1094 49-1153-01	45 16	2-3½ 2-6x9	169-535A	8TK-R/P 169-537	–	DL, H, RS
HR901P11	Pecan	C, LL	1WGR50	FM/AM/Phono/ Tape	49-1094 49-1153-01	45 16	2-3½ 2-6x9	169-541	8TK-R/P 169-537	–	DL, H, RS
HR902P	Pecan	C, LL	1WGR50	FM/AM/Phono/ Tape	49-1094 49-1153-01	45 16	2-3½ 2-6x9	169-535A	8TK-R/P 169-537	–	DL, H, RS

PRODUCT FEATURES
SEE NOTES ON PAGE 4

CABINET			CHASSIS		SPEAKERS			RECORD CHANGER	OTHER FEATURES		
MODEL	COLOR	STYLE NOTE A	MODEL	TYPE	PART NUMBER	IMPED. (In Ohms)	QTY. AND SIZE (In Inches)	PART NUMBER NOTE B	TAPE PROVISION NOTE C	SPEAKER PROVISION NOTE D	MISC. NOTE E
HR902P11	Pecan	C, LL	1WGR50	FM/AM/Phono/ Tape	49-1094 49-1153-01	45 16	2-3½ 2-6x9	169-541	8TK-R/P 169-537	–	DL, H, RS
HR903PN	Pine	C, LL	1WGR50	FM/AM/Phono/ Tape	49-1094 49-1153-01	45 16	2-3½ 2-6x9	169-535A	8TK-R/P 169-537	–	DL, H, RS
HR903PN11	Pine	C, LL	1WGR50	FM/AM/Phono/ Tape	49-1094 49-1153-01	45 16	2-3½ 2-6x9	169-541	8TK-R/P 169-537	–	DL, H, RS
H914P	Pecan	C, LL	3WHR50	FM/AM/Phono/ Tape	49-1251-01 49-1261-01	8 8	2-3 2-8	169-515	8TK-P 169-521B or 169-521D or 169-521E or 169-521F or 169-486	2 on 2 A1,A2,A3	A, DL, H, PL, RS, TIO
H915AE	Antique Oak	C, LL	3WHR50	FM/AM/Phono/ Tape	49-1251-01 49-1261-01	8 8	2-3 2-8	169-515	8TK-P 169-521B or 169-521D or 169-521E or 169-521F or 169-486	2 on 2 A1,A2,A3	A, DL, H, PL, RS, TIO
H916M	Maple	C, LL	3WHR50	FM/AM/Phono/ Tape	49-1251-01 49-1261-01	8 8	2-3 2-8	169-515	8TK-P 169-521B or 169-521D or 169-521E or 169-521F or 169-486	2 on 2 A1,A2,A3	A, DL, H, PL, RS, TIO
SR917M	Maple	C, LL	1WGR50	FM/AM/Phono/ Tape	49-1166 49-1269	8 16	2-3½ 2-10	169-540	8TK-P/R 169-537	–	DL, H, RS
SR918P	Pecan	C, LL	1WGR50	FM/AM/Phono/ Tape	49-1166 49-1269	8 16	2-3½ 2-10	169-540	8TK-P/R 169-537	–	DL, H, RS
HR920AE	Antique Oak	C, LL	6WHR55 or 6WGR55	FM/AM/Phono/ Tape	49-1166 49-1217	8 8	2-3½ 2-10	169-516	8TK-R/P 169-508B or 169-508C or 169-508	2 on 2 A1,A2,A3	A, AUX, DL, H, RS, T, TIO
HR921P	Pecan	C, LL	6WHR55 or 6WGR55	FM/AM/Phono/ Tape	49-1166 49-1217	8 8	2-3½ 2-10	169-516	8TK-R/P 169-508B or 169-508C or 169-508	2 on 2 A1,A2,A3	A, AUX, DL, H, RS, T, TIO
HR922M	Maple	C, LL	6WHR55 or 6WGR55	FM/AM/Phono/ Tape	49-1166 49-1217	8 8	2-3½ 2-10	169-516	8TK-R/P 169-508B or 169-508C or 169-508	2 on 2 A1,A2,A3	A, AUX, DL, H, RS, T, TIO

PRODUCT FEATURES
SEE NOTES BELOW

CABINET			CHASSIS		SPEAKERS			RECORD CHANGER	OTHER FEATURES		
MODEL	COLOR	STYLE NOTE A	MODEL	TYPE	PART NUMBER	IMPED. (In Ohms)	QTY. AND SIZE (In Inches)	PART NUMBER NOTE B	TAPE PROVISION NOTE C	SPEAKER PROVISION NOTE D	MISC. NOTE E
HR936AE1	Antique Oak	C, LL	12WGR58	FM/AM/Phono/ Tape	49-1166 49-1217	8 8	2-3½ 2-10	169-513A	8TK-R/P 169-523	2 on 2 A1,A2,A3	A, DL, F, H, PL, RS, T.
HR937P	Pecan	C, LL	12WGR58	FM/AM/Phono/ Tape	49-1166 49-1217	8 8	2-3½ 2-10	169-513A	8TK-R/P 169-523	2 on 2 A1,A2,A3	A, DL, F, H, PL, RS, T
HR966P	Pecan	C, LL	12WHR29	FM/AM/Phono/ Tape	49-1166 49-1271	8 8	2-3½ 2-12	169-513A	8TK-R/P 169-506-01A	2 on 2 A2, A3	AUX, DL, F, H, PL, RS, T
H1000W	Walnut	M, SP	—	—	49-1249 49-1251-01	8 8	1-6½ 1-3	—	—	—	A1
H1000W1	Walnut	M, SP	—	—	49-1251-01 49-1254-01	8 8	1-3 1-8	—	—	—	A1
H1000W2	Walnut	M, SP	—	—	49-1251-01 49-1254-01	8 8	1-3 1-8	—	—	—	A1
H1000W3	Walnut	M, SP	—	—	49-1249 49-1251-01	8 8	1-6½ 1-3	—	—	—	A1
H2000W	Walnut	M, SP	—	—	49-1166 49-1261-02	8 8	1-3½ 1-8	—	—	—	A2
H2000W3	Walnut	M, SP	—	—	49-1166 49-1261-02	8 8	1-3½ 1-8	—	—	—	A2
H3000W	Walnut	M, SP	—	—	49-1166 49-1270	8 8	1-3½ 1-10	—	—	—	A3
H3000W3	Walnut	M, SP	—	—	49-1166 49-1270	8 8	1-3½ 1-10	—	—	—	A3
H9026W	Walnut	M	—	—	—	—	—	169-513A	—	—	—

NOTE A – CABINET STYLE:
C = Console, M = Modular, LL = Lift Lid, SP = Speaker System.

NOTE B – RECORD CHANGERS
Record Changers having alpha suffixes (ie. 169-511A) denote variations of internal mechanical and/or electrical components (refer to Record Changer Features charts on page 5) but otherwise are interchangeable with other alpha suffix and non-suffix versions.

NOTE C – TAPE INPUT AND OUTPUT PROVISIONS:
Factory Installed: 8 TK - Eight Track Cartridge.
Cass = Cassette, P = Play, R = Record.
TM = Top of Set Model for installation with the designated console or modular models:
Model F635 - Cartridge Tape Player.
Model E637 - Cassette Tape Player/Recorder.
Model F638 - Cartridge Tape Player/Recorder.
Tape Units having alpha suffixes (ie. 169-510A) denote variations of internal mechanical and/or electrical components (refer to Tape Unit Features charts on pages 6 and 7) but are otherwise interchangeable with other alpha suffix and non-suffix versions. Units having numeric (ie. 169-506-01) or numeric/alpha (ie. 169-506-01A) suffixes may have a one way interchangeability under some conditions (refer to Product Features charts on pages 2, 3 and 4).

NOTE D – SPEAKER PROVISIONS:

NOTE D1: Models G1000W, G2000W, W11, G3000W, W11, G9012W1, G9014W and G9019W (and the prior E9012 series) are 8 ohm Allegro Speaker Systems. Allegro Models in the E9014 and E9018 series were 16 ohm systems.

NOTE D2: "H" Line Modular Models may use either H1000W, H2000W, or H3000W series models. (See Speaker Provision).

NOTE D3: Models G941P and G942M contain a complete Four Channel speaker system. In addition, Models G941P and G942M have two jacks to which an external speaker system may be connected so the external speaker system may be used for the back channels of a Four Channel system. Model G946AE has two jacks to which the G946AES speaker system is connected.

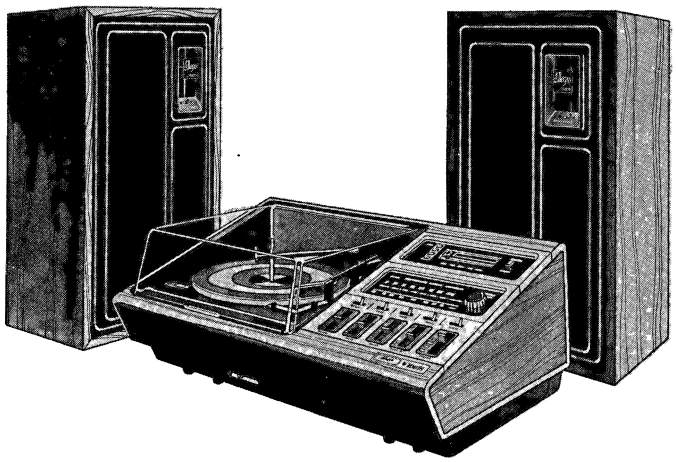
2 on 2 - Speaker Matrix or Conventional Stereo Extension Speaker System Provisions.
A1 = Model H1000W Allegro 1000 Speaker System may be used.
A2 = Model H2000W Allegro 2000 Speaker System may be used.
A3= Model H3000W Allegro 3000 Speaker System may be used.

NOTE E – MISCELLANEOUS FEATURES:
A = Speaker System is Allegro.
A1 = Speaker System is Allegro 1000.
A2 = Speaker System is Allegro 2000.
A3 = Speaker System is Allegro 3000.
AUX = Auxiliary input accepts Record Changer Model G9026W or Tape Units listed under Note B.
DL = Dial Scale Light.
F = Flywheel Tuning.
H = Headphone Jack (Stereo).
HH = Headphone Jack (Four Channel).
PL = Power Indicator Light (other than Dial Scale Light).
RS = Record Storage.
T = Tuning Meter.
TIO = Tape Input/Output.
UNI = Uniband Dial Scale Light.

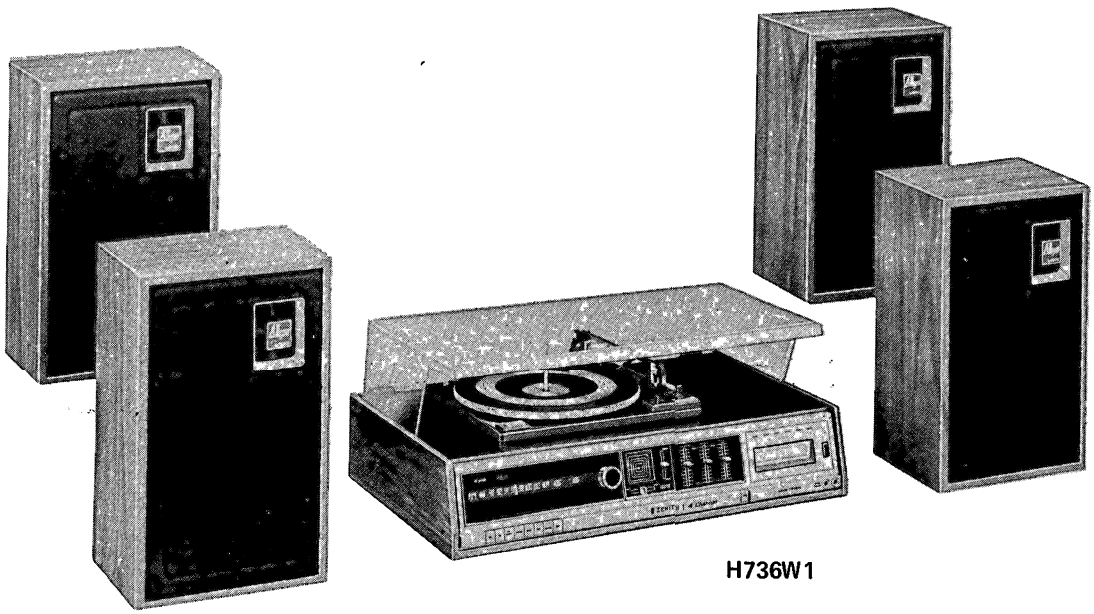
H587W

HR590W, W1

HR591W



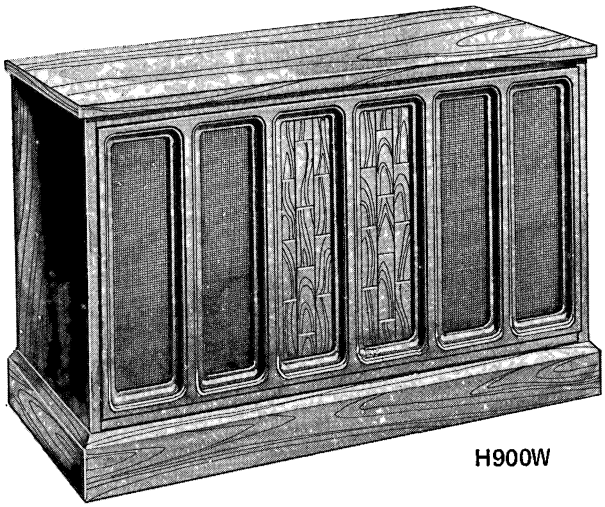
H596W



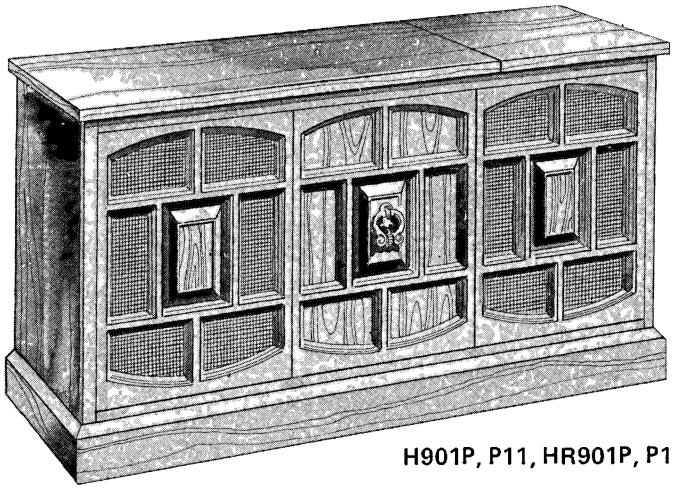
H736W1

NOTE – MODULAR MODELS ARE SHOWN WITH OPTIONAL ALLEGRO SPEAKER SYSTEMS.

REPRESENTATIVE MODEL ILLUSTRATIONS

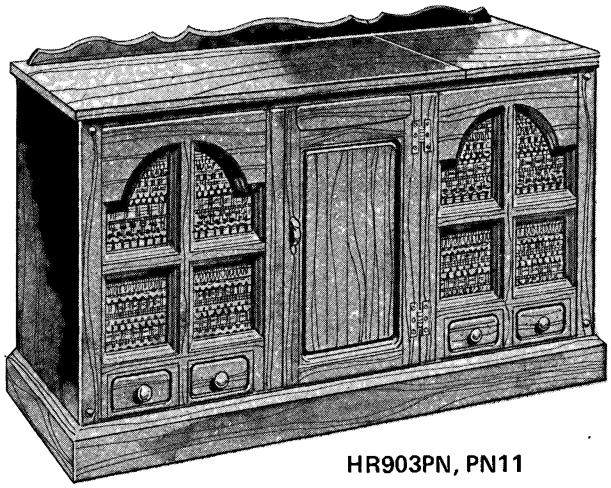


H900W

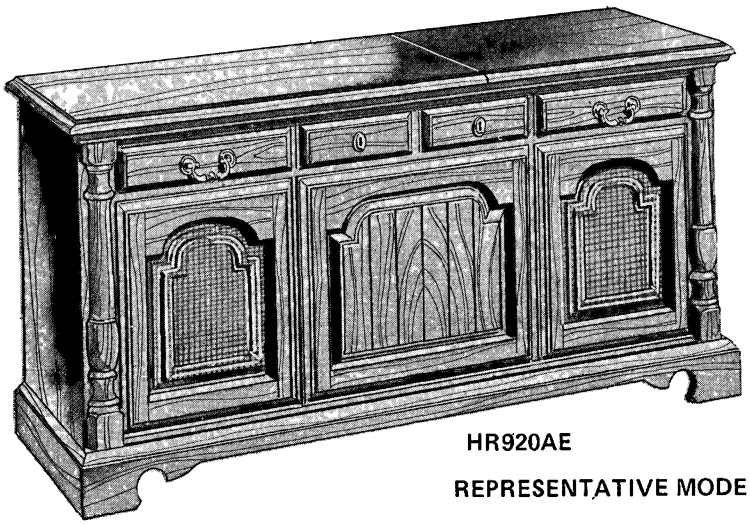


H901P, P11, HR901P, P11

HR902P, P11



HR903PN, PN11



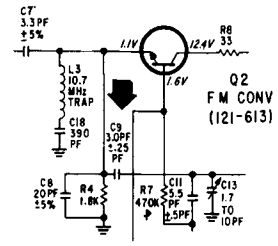
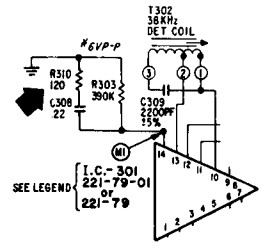
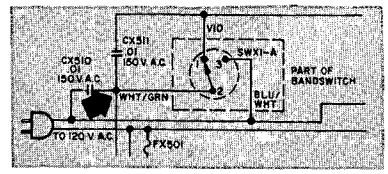
HR920AE

REPRESENTATIVE MODEL ILLUSTRATIONS

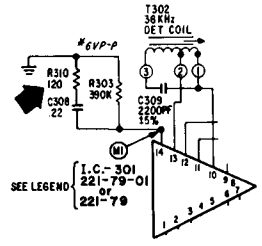
REVISIONS

Revisions to information previously published in "HF" series service manuals is shown in the following charts. Each chart heading will list Chassis and/or Model identification and reference to the appropriate Service Manual. Information will normally consist of: schematic reference number (i.e. C304), action taken (omit, add, or alternate useage), part number and description of components, and a partial schematic of the circuit or other appropriate drawing.

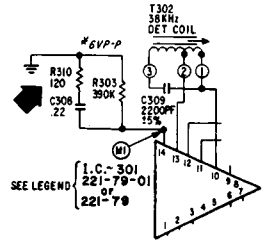
CHASSIS 3WHR50 MODELS H914P, H915AE, H916M — 3WHR50 CHASSIS MODELS

COMPONENT CHANGES			REFER TO HF32	DRAWING CHANGES
				(5182B1, B2, C1, C2, D1, D2)
C9	OMIT ADD	22-5879 22-7577	3.3 PF ± .25 PF Disc 25V 3.0 PF ± .25 PF Disc 500V	
R310	ADD	63-4147	120 Ohm 10%, 1/4W	
–	NOTE	–	HF 32, Page 32 should show connection dot at junction of CX510 and CX511.	
–	NOTE	–	HF32, Page 33 Circuit Board Drawing revised at C1, C13, C14, C203, C222, C225, C308, L101, R220, R221, R303	Revised Drawing on Page 11 of this manual.

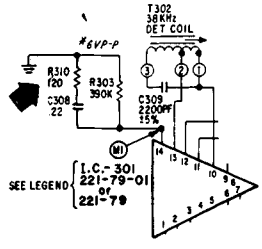
CHASSIS 3WHR52 MODELS H584W, H587W, HR587W — 3WHR52 CHASSIS MODELS

COMPONENT CHANGES			REFER TO HF 32	DRAWING CHANGES
				(5179A1, A2, B1, B2, C1, C2)
FX501	OMIT ADD	136-117-10 136-117-12	.25 Amp Slo Blo Fuse .375 Amp Slo Blo Fuse	
FX502	NOTE	136-115-15	Should read 1.0 Amp Regular Fuse	
R310	ADD	63-4147	120 Ohm 10%, 1/4W	
T101	OMIT ADD	95-3077 95-3271	AM Oscillator Transformer AM Oscillator Transformer	
–	NOTE	–	HF 32, Page 37 Circuit Board Drawing revised at C1, C13, C14, C203, C222, C225, C308, L101, R220, R221, R305, R411, R461	Revised Drawing on Page 12 of this manual.

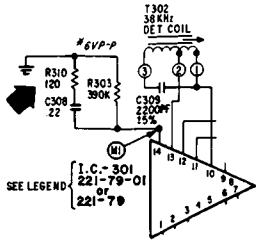
CHASSIS 6WHR55 MODELS HR920AE, HR921P, HR922M — 6WHR55 CHASSIS MODELS

COMPONENT CHANGES			REFER TO HF 32	DRAWING CHANGES
				(5183D1, D2, E1, E2)
R310	ADD	63-4147	120 Ohm 10%, 1/4W	
–	NOTE	–	HF 32, Page 39 Circuit Board Drawing revised at C1, C6, C13, C16, C305, C308, C406, C453, C456, CR503, L102, Q406, R402, R408	Revised Drawing on Page 13 of this manual.

CHASSIS 6WHR56 MODELS HR684W, HR684W1 — 6WHR56 CHASSIS MODELS

COMPONENT CHANGES			REFER TO HF 32	DRAWING CHANGES
				(5180D1, D2, E1, E2)
R310	ADD	63-4147	120 Ohm 10%, 1/4W	
–	NOTE	–	HF 32, Page 43 Circuit Board Drawing revised at C1, C6, C7, C13, C16, C203, C305, C308, CR503, C453, L102, Q406, R402, R408	Revised Drawing on Page 14 of this manual.

CHASSIS 6WHR57 MODELS H590W, HR590W, HR590W1, HR591W — 6WHR57 CHASSIS MODELS

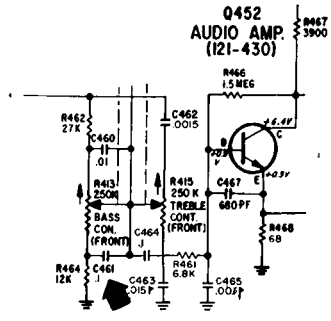
COMPONENT CHANGES			REFER TO HR 32	DRAWING CHANGES
				(5181D1, D2, E1, E2)
R310	ADD	63-4147	120 Ohm 10%, 1/4W	
–	NOTE	–	HF 32, Page 45 Circuit Board Drawing revised at C1, C6, C7, C13, C16, C203, C308, C406, C453, C456, CR503, L102, Q406, R402, R408	Revised Drawing on Page 15 of this manual.

CHASSIS 12WHR29 MODELS H596W, HR596W, HR966P — 12WHR29 CHASSIS MODELS

COMPONENT CHANGES			REFER TO HF 32	DRAWING CHANGES (5156A1, A2, B1, B2, C1, C2, D1, D2)
R214	OMIT	63-10524-03	2.5K Ohm Meter Adj.	
	ADD	63-10651-02	2.5K Ohm Meter Adj.	
R308	OMIT	63-10524-01	10K Ohm Mute Adj.	
	ADD	63-10651-04	10K Ohm Mute Adj.	
R317	OMIT	63-10524	5K Ohm PPL Adj.	
	ADD	63-10651-03	5K Ohm PPL Adj.	
C318	OMIT	22-3080	.005 MF Disc 25V	
	ADD	22-7152-08	100 MF Electrolytic 25V	
–	NOTE	–	HF 32, Page 50 - Pwr Amp Circuit Board Drawing revised at C417, C428, C478, Q408, Q458	Revised Drawing on Page 16 of this manual.
–	NOTE	–	HF 32, Page 50 - Pwr Supply Circuit Board Drawing revised at leads to DSX506, DSX507	Revised Drawing on Page 16 of this manual.
–	NOTE	–	HF 32, Page 51 - RF/IF/MPX Circuit Board Drawing revised at L205	Revised Drawing on Page 17 of this manual.
–	NOTE	–	HF 32, Page 52 - Pre Amp Circuit Board Drawing Revised at C403, C453, R402	Revised Drawing on Page 18 of this manual.

CHASSIS 12WGR58 MODELS GR936AE, GR937P, HR936AE1, HR937P — 12WGR58 CHASSIS MODELS

COMPONENT CHANGES			REFER TO HF 32	DRAWING CHANGES (4988C1, C2)
C461	NOTE	22-5862	HF 31, Page 62 - C461 should read .1, not .047	
C108	NOTE	22-4819	HF 31, Page 63 - C108 should read ±.25 PF	
RX502	NOTE	63-4694	HF 31, Page 63 - RX502 should read 820, not 320	
–	NOTE	–	HF 31, Page 63 - Circuit Board Drawing revised at C1, C14, C233, C415, C461, C465, CR503, M1, Q102, R234, R235, R236, R237, R437, R487, T102	Revised Drawing on Page 19 of this manual.



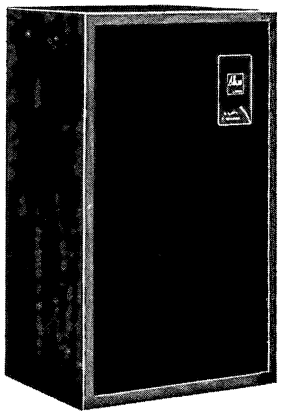
REVISIONS

CHASSIS 35WFR50 MODELS ET931W, F923W, FR923W, F924M, FR924M; F925DE, P, FR925DE, P, FR936AE, FR937P		35WFR50 CHASSIS MODELS
COMPONENT CHANGES	**REFER TO HF 30, HF 30S1**	**DRAWING CHANGES**
		(4879C1, C2)
– NOTE –	HF 30, Page 133 Circuit Board Drawing revised at C1, C227, C232, C407, C411, C461, CR503, M1, Q406, Q456, R10, R234, R235, R236, R237, R402, R431, R452, T102, 4 Ch. Jacks, T.P. "L".	Revised Drawing on Page 20 of this manual.

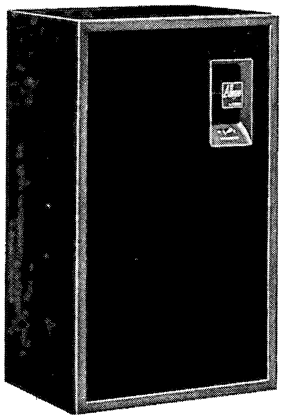
H9026W

ALLEGRO SPEAKER SYSTEMS

H1000W, W1, W2, W3



H2000W, W3

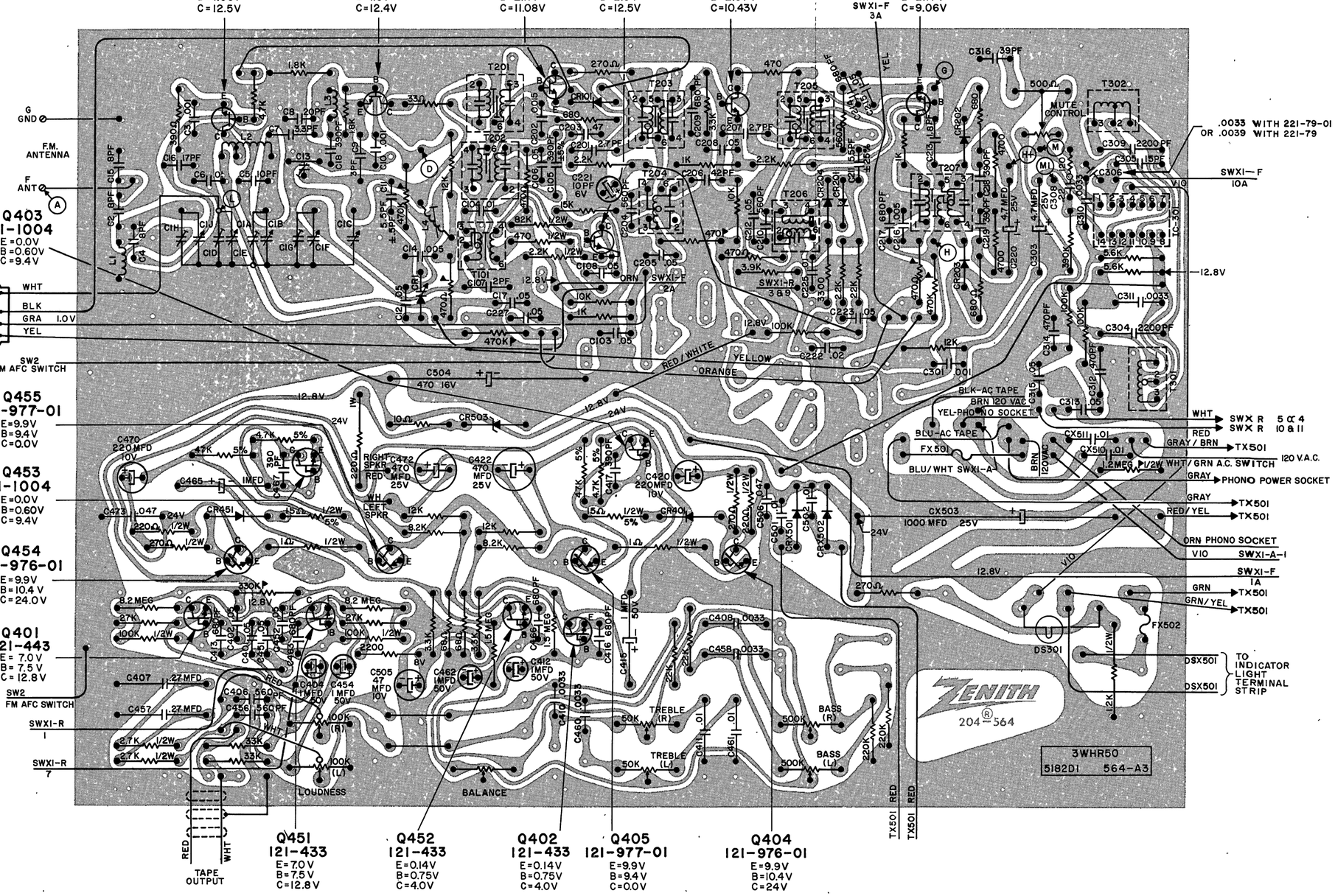


H3000W, W3

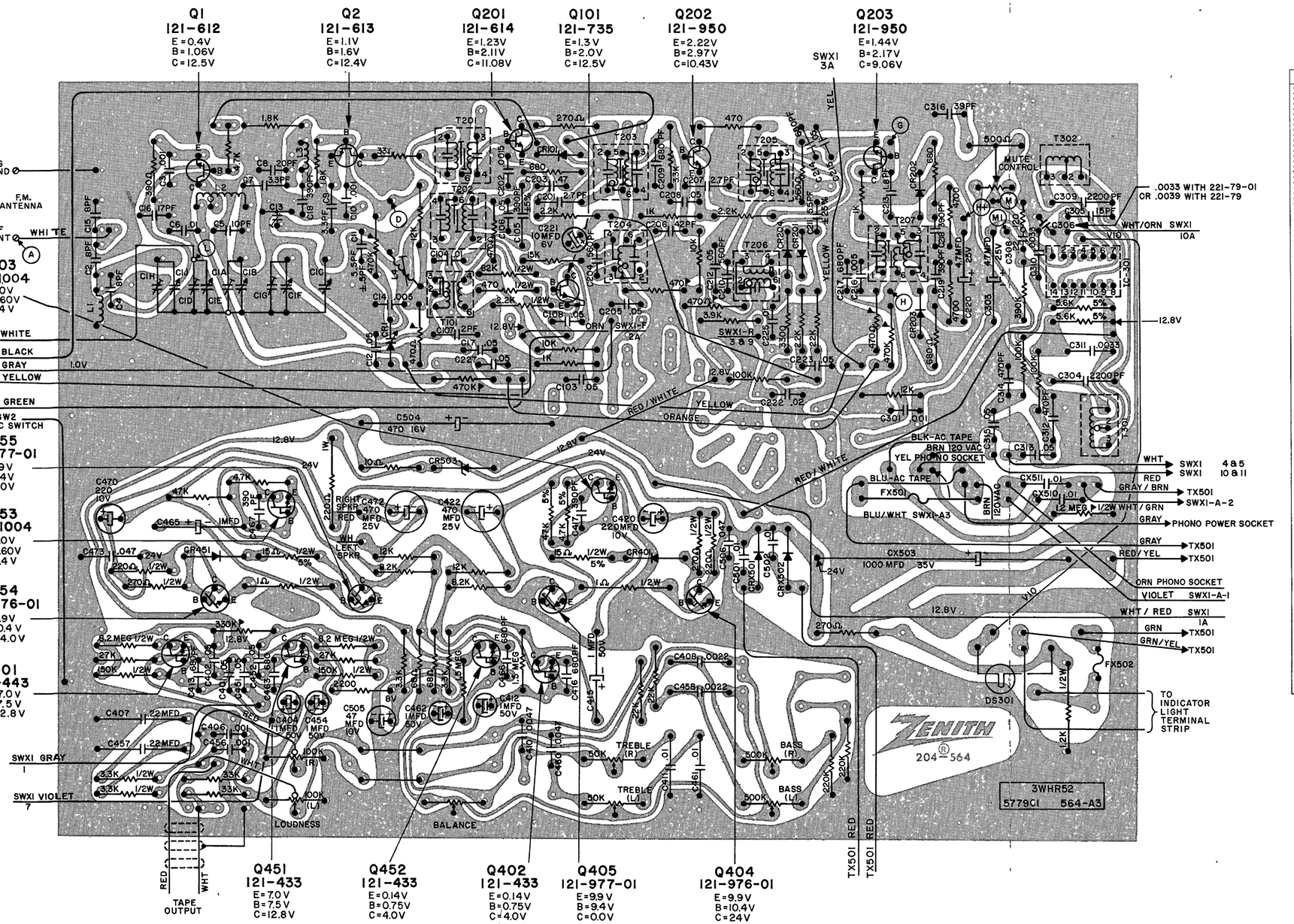
REPRESENTATIVE MODEL ILLUSTRATIONS

CHASSIS LEGEND 3WHR50

ITEM NO.	PART NUMBER	DESCRIPTION
C1A		F.M. DETECTOR TRIMMER
C1B		F.M. DETECTOR TUNING
C1C		F.M. OSCILLATOR TUNING
C1D		A.M. ANTENNA TRIMMER
C1E		A.M. ANTENNA TUNING
C1F	22-7134	A.M. OSCILLATOR TUNING
C1G		A.M. OSCILLATOR TRIMMER
C1H		F.M. ANTENNA TRIMMER
C1J		F.M. ANTENNA TUNING
C2	22-3481	8 PF DISC ±0.5% 500V
C3	22-2729	301 MFD DISC 25V
C4	22-3481	8 PF DISC ±0.5% 500V
C5	22-3629	10 PF DISC ±5% 500V
C6	22-3385	31 MFD DISC 25V
C7	22-3481	8 PF DISC ±0.5% 500V
C8	22-3751	20 PF DISC ±5% 500V
C9	22-3527	3.0 PF DISC ±.25 PF 500V
C10	22-2729	301 MFD DISC 25V
C11	22-6378	5.5 PF DISC ±0.5 PF 25V
C12	22-3054	25 MFD DISC 25V
C13	22-6805	1.7 TO 10 PF CERAMIC TRIMMER
C14	22-3054	25 MFD DISC 25V
C15	22-3481	8 PF DISC ±0.5% 500V
C16	22-3792	17 PF DISC ±5% 500V
C17	22-3054	25 MFD DISC 25V
C18	22-3177	390 PF DISC 500V
C101	22-3054	25 MFD DISC 25V
C102	22-3385	31 MFD DISC 25V
C103	22-6972	390 PF JFD POLYSTYRENE 125V
C104	22-3054	25 MFD DISC 25V
C105	22-6972	390 PF JFD POLYSTYRENE 125V
C106	22-3054	25 MFD DISC 25V
C107	22-6819	2 PF MATCH ±.25 PF 500V
C108	22-3054	25 MFD DISC 25V
C201	22-3751	2.7 PF CERAMIC ±10% 500V
C202	22-6482	.0015 MFD DISC 500V
C203	22-6487	.47 MFD DISC 25V
C204	22-6481	560 PF DISC 500V
C205	22-3054	25 MFD DISC 25V
C206	22-3751	42 PF CERAMIC ±10% 500V
C207	22-3751	2.7 PF CERAMIC ±10% 500V
C208	22-3034	05 MFD DISC 25V
C209	22-6482	680 PF DISC 500V
C210	22-6481	560 PF DISC 500V
C211	22-3779	5.5 PF DISC ±.25 PF 500V
C212	22-3034	05 MFD DISC 25V
C213	22-3628	1.8 PF CERAMIC ±.25 PF 500V
C214	22-6482	680 PF DISC 500V
C215	22-3034	05 MFD DISC 25V
C216	22-3080	.005 MFD DISC 25V
C217	22-6482	680 PF DISC 500V
C218	22-3177	390 PF DISC 500V
C219	22-3034	05 MFD DISC 25V
C220	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C221	22-7151-04	10 MFD ELECTROLYTIC 10V
C222	22-6599	.02 MFD DISC 25V
C223	22-3034	05 MFD DISC 25V
C225	22-7512	.01 MFD DISC 25V
C227	22-3034	05 MFD DISC 25V
C301	22-2729	301 MFD DISC 25V
C303	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C304	22-3751	2200 PF POLYSTYRENE ±5% 500V
C305	22-3728	15 PF DISC 500V
C306	22-13	.0033 MFD DISC (USED WITH 221-79-01) 500V
	OR	
	22-6581	.0039 MFD DISC (USED WITH 221-79) 500V
C308	22-3527	.22 MFD DISC 12V
C309	22-6742	2200 PF POLYSTYRENE ±5% 500V
C310	22-13	.0033 MFD DISC 500V
C311	22-13	.0033 MFD DISC 500V
C312	22-16	470 PF DISC 500V
C313	22-3034	.05 MFD DISC 25V
C314	22-16	470 PF DISC 500V
C315	22-3034	.05 MFD DISC 25V
C316	22-3351	39 PF ±5% DISC 500V
C401	22-3034	.05 MFD DISC 25V
C402	22-3034	.05 MFD DISC 25V
C404	22-7153	1 MFD ELECTROLYTIC 50V
C405	22-6481	560 PF DISC 500V
C406	22-3034	.05 MFD DISC 25V
C407	22-7512	.2032 MFD DISC 50V
C408	22-3034	.05 MFD DISC 25V
C411	22-7512	.01 MFD DISC 25V
C412	22-7153	1 MFD ELECTROLYTIC 50V
C413	22-6482	680 PF DISC 500V
C415	22-7143	1 MFD ELECTROLYTIC 50V
C416	22-6482	680 PF DISC 500V
C417	22-3177	390 PF DISC 500V
C420	22-7150-09	220 MFD ELECTROLYTIC 10V
C422	22-7152-11	470 MFD ELECTROLYTIC 25V
C410	22-13	.0033 MFD DISC 500V
C451	22-3034	.05 MFD DISC 25V
C452	22-3034	.05 MFD DISC 25V
C454	22-7153	1 MFD ELECTROLYTIC 50V
C456	22-6481	560 PF DISC 500V
C457	22-6964	.20 MFD FILM 50V
C458	22-13	.0033 MFD DISC 500V
C459	22-3034	.05 MFD DISC 25V
C461	22-7512	.01 MFD DISC 25V
C462	22-7153	1 MFD ELECTROLYTIC 50V
C463	22-2939	680 PF DISC 500V
C465	22-7143	1 MFD ELECTROLYTIC 50V
C466	22-2939	680 PF DISC 500V
C467	22-3177	390 PF DISC 500V
C470	22-7150-09	220 MFD ELECTROLYTIC 10V
C472	22-7152-11	470 MFD ELECTROLYTIC 25V
C473	22-6487-01	.047 MFD MYLAR 100V
CR1	22-8477	.01 MFD DISC 500V
CR2	22-8477	.01 MFD DISC 500V
CR502	22-7146-13	1000 MFD ELECTROLYTIC 35V
CR4	22-7141-11	470 MFD ELECTROLYTIC 10V
CR5	22-3128-07	67 MFD ELECTROLYTIC 35V
CR6	22-6487-01	.047 MFD MYLAR 100V
CR501	22-8008	.01 MFD DISC 1500V
CR503	22-8008	.01 MFD DISC 1500V
R1	63-9921-62	390 OHM 5% (ALT. 63-7368 1/2W 10%)
R2	63-4213	4.7K OHM
R3	63-9921-64	470 OHM 5% (ALT. 63-7372 1/2W 20%)
R4	63-9921-78	1.8K OHM 5% (ALT. 63-7396 1/2W 10%)
R5	63-9921-78	1.8K OHM 5% (ALT. 63-10183-78 1/4W 10%)
R6	63-9921-98	12K OHM 5% (ALT. 63-7831 1/2W 10%)
R7	63-9922-32	470K OHM 5% (ALT. 63-7888 1/2W 10%)
R8	63-4122	33 OHM
R9	63-9922-36	470K OHM 5% (ALT. 63-7890 1/2W 20%)
R101	63-9922	15K OHM 5% (ALT. 63-7834 1/2W 10%)
R102	63-1868	82K OHM 1/2W
R103	63-9921-96	10K OHM 5% (ALT. 63-7827 1/2W 10%)
R104	63-9921-72	1K OHM 5% (ALT. 63-7785 1/2W 10%)
R105	63-7796	3.3K OHM 1/2W
R106	63-9921-64	470 OHM 5% (ALT. 63-7372 1/2W 10%)
R107	63-7771	470 OHM 1/2W
R201	63-9921-60	680 OHM 5% (ALT. 63-7378 1/2W 10%)
R202	63-9921-58	270 OHM 5% (ALT. 63-7351 1/2W 10%)
R203	63-9921-64	470 OHM 5% (ALT. 63-7372 1/2W 20%)
R204	63-9921-86	3.3K OHM 5% (ALT. 63-7858 1/2W 10%)
R205	63-9921-64	470 OHM 5% (ALT. 63-7372 1/2W 20%)
R206	63-9921-58	270 OHM 5% (ALT. 63-7351 1/2W 10%)
R207	63-9921-72	1K OHM 5% (ALT. 63-7785 1/2W 10%)
R208	63-9921-64	470 OHM 5% (ALT. 63-7372 1/2W 20%)
R209	63-9921-64	470 OHM 5% (ALT. 63-7372 1/2W 20%)
R210	63-9921-72	1K OHM 5% (ALT. 63-10183-72 1/4W 10%)
R211	63-9921-66	560 OHM 5% (ALT. 63-7375 1/2W 10%)
R212	63-9921-68	680 OHM 5% (ALT. 63-7378 1/2W 10%)
R213	63-9921-68	680 OHM 5% (ALT. 63-7378 1/2W 10%)
R214	63-9921-68	680 OHM 5% (ALT. 63-7378 1/2W 10%)
R215	63-9921-60	680 OHM 5% (ALT. 63-7813 1/2W 10%)
R216	63-9921-80	4.7K OHM 5% (ALT. 63-7813 1/2W 10%)
R217	63-9922-30	2.7K OHM 5% (ALT. 63-7398 1/2W 10%)
R218	63-9922-20	100K OHM 5% (ALT. 63-7869 1/2W 10%)
R219	63-9921-64	470 OHM 5% (ALT. 63-7372 1/2W 20%)
R220	63-9921-62	390 OHM 5% (ALT. 63-7368 1/2W 10%)
R221	63-9921-86	3.9K OHM 5% (ALT. 63-7819 1/2W 10%)
R224	63-9922-36	470K OHM 5% (ALT. 63-7888 1/2W 20%)
R225	63-9921-80	2.2K OHM 5% (ALT. 63-7799 1/2W 10%)
R301	63-9921-98	12K OHM 5% (ALT. 63-7831 1/2W 10%)
R302	63-9969-56	500 OHM MUTE CONTROL (ALT. 63-9061 1/4W 20%)
R303	63-9922-34	280K OHM (ALT. 63-7894 1/2W 10%)
R304	63-1785	1.2K OHM 1/2W 10%
R305	63-6041	270 OHM 1W
R306	63-9921-90	5.6K OHM 5% (ALT. 63-7816 1/2W 5%)
R307	63-9921-90	5.6K OHM 5% (ALT. 63-7816 1/2W 5%)
R308	63-9922-20	100K OHM 5% (ALT. 63-7869 1/2W 10%)
R309	63-9922-20	100K OHM 5% (ALT. 63-7869 1/2W 10%)
R310	63-4147	120 OHM 10% 1/4W
R401	63-1958	8.2 MEG OHM 1/2W
R403	63-1892	330K OHM 1/2W
R404	63-9922-06	27K OHM 5% (ALT. 63-7845 1/2W 10%)
R406	63-9922-08	33K OHM 5% (ALT. 63-7848 1/2W 10%)
R407	63-1802	2.7K OHM 1/2W
R408(L)	63-9969-52	100K DUAL LOUDNESS CONTROL (ALT. 63-10150)
R409	63-9922-04	220 OHM 5% (ALT. 63-7841 1/2W 10%)
R410(L)	63-9957	50K DUAL BASS CONTROL (ALT. 63-10151)
R411	63-9922-28	220K OHM 5% (ALT. 63-7883 1/2W 10%)
R412(L)	63-9256	50K DUAL TREBLE CONTROL (ALT. 63-10151)
R413	63-9924-48	1.5 MEG OHM (ALT. 63-7918 1/2W 10%)
R414	63-9924-48	1.5 MEG OHM (ALT. 63-7918 1/2W 10%)
R415	63-9921-64	470 OHM 5% (ALT. 63-7372 1/2W 20%)
R416	63-9922-12	47K OHM 5% (ALT. 63-7854 1/2W 10%)
R417	63-9921-74	1.2K OHM 5% (ALT. 63-7813 1/2W 5%)
R418	63-9921-94	8.2K OHM 5% (ALT. 63-7824 1/2W 10%)
R419	63-9969-56	220 OHM 1/2W 5% (ALT. 63-7372 1/2W 10%)
R420	63-9966-58	270 OHM 1/2W 5% (ALT. 63-7761 1/2W 10%)
R421	63-9969-28	15 OHM 1/2W 5% (ALT. 63-7707 1/2W 5%)
R422	63-10585	1 OHM 1/2W
R423	63-9921-58	270 OHM 5% (ALT. 63-7351 1/2W 10%)
R424	63-9922-32	350K OHM 5% (ALT. 63-7891 1/2W 20%)
R429	63-9256	100K DUAL TREBLE CONTROL (ALT. 63-10150)
R430	63-1767	220 OHM 1/2W
R431	63-1780	8.2 MEG OHM 1/2W
R432	63-1892	330K OHM 1/2W
R433	63-9922-06	27K OHM 5% (ALT. 63-7845 1/2W 10%)
R436	63-9922-08	33K OHM 5% (ALT. 63-7848 1/2W 10%)
R437	63-1802	2.7K OHM 1/2W
R441	63-9922-28	220K OHM 5% (ALT. 63-7883 1/2W 10%)
R463	63-9924-48	1.5 MEG OHM 10% (ALT. 63-7918 1/2W 10%)
R464	63-9921-64	68 OHM 5% (ALT. 63-7728 1/2W 10%)
R465	63-9921-64	47K OHM 5% (ALT. 63-7854 1/2W 10%)
R467	63-9921-98	4.7K OHM 5% (ALT. 63-7813 1/2W 10%)
R468	63-9921-94	8.2K OHM 5% (ALT. 63-7824 1/2W 10%)
R469	63-9966-56	220 OHM 1/2W 5% (ALT. 63-7707 1/2W 10%)
R470	63-9966-56	270 OHM 1/2W 5% (ALT. 63-7761 1/2W 10%)
R471	63-9966-28	15 OHM 1/2W 5% (ALT. 63-7707 1/2W 5%)
R472	63-10585	1 OHM 1/2W
R473	63-9921-94	12K OHM 5% (ALT. 63-7831 1/2W 10%)
R480	63-1767	220 OHM 1/2W
R1001	63-9947	220 OHM 1W
R1002	63-9966-28	15 OHM 1/2W (ALT. 63-7707 1/2W 5%)
R1003	63-9966-28	15 OHM 1/2W (ALT. 63-7707 1/2W 5%)
R1004	63-9966-56	2.2 OHM 1/2W 5%
L1	20-3391	FM ANTENNA COIL
L2	20-1868	FM RF COIL
L3	20-1831	TRAP COIL 10.7 MHz
L4	20-3597	FM OSCILLATOR COIL
L101	50-2266	AM ANTENNA ASSEMBLY
L102	149-311	FERRITE CORE SLEEVE
L103	20-1831	AM OSCILLATOR TRANS. PRI.
L104	20-1501	AM OSCILLATOR TRANS. SEC.
L201	20-1501	1ST IF TRANSFORMER 10.7 MHz PRI.
L202	20-1501	1ST IF TRANSFORMER 10.7 MHz SEC.
L203	20-1501	1ST IF AM 455 KHz PRI.
L204	20-1501	1ST IF AM 455 KHz SEC.
L205	20-1501	2ND IF TRANSFORMER 10.7 MHz PRI.
L206	20-1501	2ND IF TRANSFORMER 10.7 MHz SEC.
L207	20-1501	2ND IF AM 455 KHz PRI.
L208	20-1501	2ND IF TRANSFORMER 10.7 MHz PRI.
L209	20-1501	3RD IF TRANSFORMER 10.7 MHz SEC.
L210	20-1501	3RD IF AM 455 KHz PRI.
L211	20-1501	3RD IF AM 455 KHz SEC.
L212	20-1501	RATIO DETECTOR TRANS. 10.7 MHz PRI.
L213	20-1501	RATIO DETECTOR TRANS. 10.7 MHz SEC.
L214	20-1501	RATIO DETECTOR TRANS. 10.7 MHz SEC.
T101	95-3271	AM OSCILLATOR TRANSFORMER
T201	95-2568	FM 1ST IF TRANSFORMER 10.7 MHz
T202	95-2541	AM 1ST IF AM 455 KHz
T203	95-2547	FM 2ND IF TRANSFORMER 10.7 MHz
T204	95-2542	AM 2ND IF AM 455 KHz
T205	95-2548	FM 3RD IF TRANSFORMER 10.7 MHz
T206	95-3089	AM 3RD IF AM 455 KHz
T207	95-2545	FM RATIO DETECTOR 10.7 MHz
T301	95-2548	INPUT COIL 10 KHz
T302	95-3023	DETECTOR COIL 28 KHz
TC101	49-10507	TONEARM TRANSDUCER
TP101	85-1272-01	BAND SWITCH
SW2	85-1437-01 OR 85-1372-01	AFC SWITCH (SLIDE SP-DT) PREFERRED ALTERNATE
J1	79-3137-01	STEREO HEADPHONE JACK
CR1	103-47 OR 103-189	AFC DIODE
CR101	103-142-01	SILICON DIODE
CR201	103-23-01	GERMANIUM DIODE
CR202	103-90	GERMANIUM DIODES (MATCHED PAIR)
CR203	103-90	
CR204	103-33	GERMANIUM DIODE
CR401	103-222	DIODE
CR451	103-222	DIODE
CR501	21-2174	SILICON RECTIFIER
CR502	21-2174	SILICON RECTIFIER
CR503	103-189	DIODE
IC-301	221-79-01 OR 221-79	MONOLITHIC MULTIPLEX DEMODULATOR (SEE C306)
DS301	100-611	STEREO INDICATOR LIGHT
FX501	20-1844	FUSE HOLDER
FX502	20-1844	FUSE HOLDER
PC-1	84-5061	PRINTED CIRCUIT BOARD
FX501	126-1110	1/8 AMP SLO-BLO FUSE
FX502	126-1110	1/8 AMP SLO-BLO FUSE
		ELECTRICAL CIRCUIT COMPONENT
		5182D2



CHASSIS 3WHR50 – CHASSIS WIRING AND COMPONENTS VIEWED FROM FOIL SIDE



CHASSIS 3WHR52 – CHASSIS WIRING AND COMPONENTS
VIEWED FROM FOIL SIDE

CHASSIS LEGEND 3WHR52

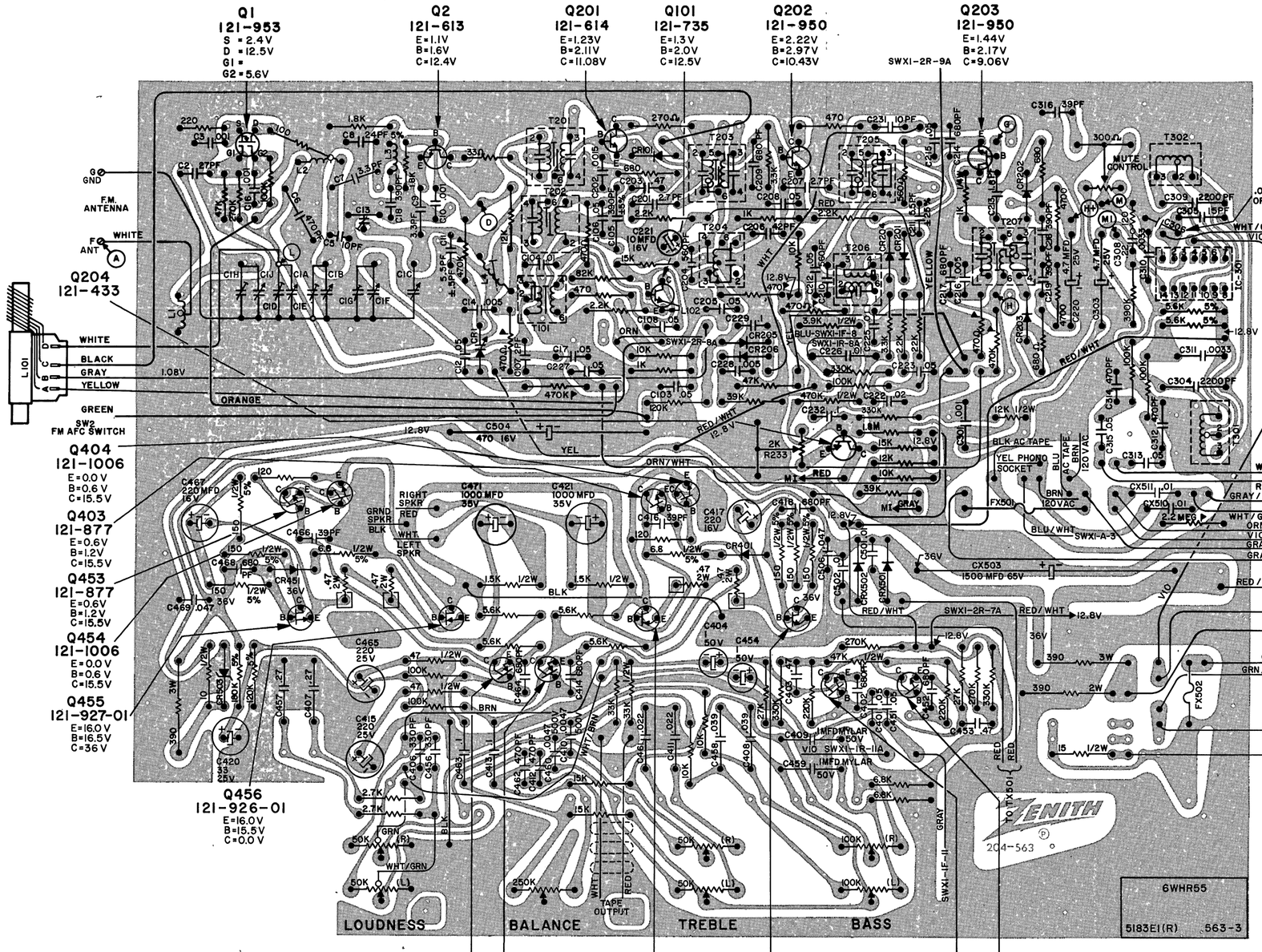
ITEM NO.	PART NUMBER	DESCRIPTION
C1A		FM DETECTOR TRIMMER
C1B		FM DETECTOR TUNING
C1C		FM OSCILLATOR TUNING
C1D		AM ANTENNA TRIMMER
C1E		AM ANTENNA TUNING
C1F	22-7134	AM OSCILLATOR TUNING
C1G		AM OSCILLATOR TRIMMER
C1H		FM ANTENNA TRIMMER
C1I		FM ANTENNA TUNING
C2	22-2481	8 PF DISC ±0.5% 500V
C3	22-2729	.001 MFD DISC 25V
C4	22-2481	8 PF DISC ±0.5% 500V
C5	22-3675	10 PF DISC ±5% 500V
C6	22-3393	.01 MFD DISC 25V
C7	22-3541	3.3 PF GIMMICK ±5% 500V
C8	22-3751	20 PF DISC ±5% 500V
C9	22-5879	3.3 PF DISC ±25 PF 25V
C10	22-2729	.001 MFD DISC 25V
C11	22-5878	5.5 PF DISC ±0.5 PF 25V
C12	22-3034	.05 MFD DISC 25V
C13	22-4856	1-7 TO 10 PF CERAMIC TRIMMER
C14	22-3080	.005 MFD DISC 25V
C15	22-2481	8 PF DISC ±0.5% 500V
C16	22-2792	17 PF DISC ±5% 500V
C17	22-3034	.05 MFD DISC 25V
C18	22-2177	390 PF DISC 500V
C103	22-3034	.05 MFD DISC 25V
C104	22-3393	.01 MFD DISC 25V
C106	22-5972	390 PF ±5% POLYSTYRENE 125V
C106	22-3034	.05 MFD DISC 25V
C107	22-4819	2 PF NH700 ±.25 PF 500V
C108	22-3034	.05 MFD DISC 25V
C201	22-3310	2.7 PF GIMMICK ±10% 500V
C202	22-5487	.0015 MFD DISC 500V
C203	22-5487	.47 MFD DISC 3V
C204	22-5481	500 PF DISC 500V
C205	22-3034	.05 MFD DISC 25V
C206	22-3791	42 PF DISC ±5% 500V
C207	22-3310	2.7 PF GIMMICK ±10% 500V
C208	22-3034	.05 MFD DISC 25V
C209	22-5482	680 PF DISC 500V
C210	22-5481	500 PF DISC 500V
C211	22-3770	5.5 PF DISC ±.25 PF 500V
C212	22-3034	.05 MFD DISC 25V
C213	22-2428	1.8 PF GIMMICK ±10% 500V
C214	22-5482	680 PF DISC 500V
C215	22-3034	.05 MFD DISC 25V
C216	22-5680	.1000 MFD DISC 25V
C217	22-5482	680 PF DISC 500V
C218	22-3177	390 PF DISC 500V
C219	22-3177	390 PF DISC 500V
C220	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C221	22-7151-04	10 MFD ELECTROLYTIC 16V
C222	22-5680	.02 MFD DISC 25V
C223	22-3034	.05 MFD DISC 25V
C225	22-7812	.01 MFD DISC 25V
C227	22-3034	.05 MFD DISC 25V
C301	22-2729	.001 MFD DISC 25V
C302	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C304	22-5782	2200 PF POLYSTYRENE ±5% 500V
C305	22-3728	15 PF DISC 500V
C306	22-13	.0033 MFD DISC (USED WITH 221-79-01) 500V
	OR	
	22-5681	.0039 MFD DISC (USED WITH 221-79) 500V
C308	22-3527	.22 MFD DISC 25V
C309	22-5782	2200 PF POLYSTYRENE ±5% 500V
C310	22-13	.0033 MFD DISC 500V
C311	22-13	.0033 MFD 500V
C312	22-16	470 PF DISC 500V
C313	22-3034	.05 MFD DISC 25V
C314	22-19	470 PF DISC 500V
C315	22-3034	.05 MFD DISC 25V
C316	22-3391	39 PF ±5% DISC 500V
C401	22-3034	.05 MFD DISC 25V
C402	22-3034	.05 MFD DISC 25V
C404	22-7153	1 MFD ELECTROLYTIC 50V
C406	22-5688	.001 MFD DISC 500V
C407	22-5048	.22 MFD MYLAR 50V
C408	22-5687	.0022 MFD DISC 500V
C410	22-7512	.01 MFD DISC 25V
C412	22-7153	1 MFD ELECTROLYTIC 50V
C413	22-2939	680 PF DISC 500V
C415	22-7143	1 MFD ELECTROLYTIC 50V
C416	22-2939	680 PF DISC 500V
C417	22-3177	390 PF DISC 500V
C420	22-7159-09	220 MFD ELECTROLYTIC 10V
C422	22-7152-11	470 MFD ELECTROLYTIC 25V
C450	22-14	.0047 MFD DISC 500V
C451	22-3034	.05 MFD DISC 25V
C452	22-3034	.05 MFD DISC 25V
C454	22-7153	1 MFD ELECTROLYTIC 50V
C456	22-5688	.001 MFD DISC 500V
C457	22-5048	.22 MFD MYLAR 50V
C458	22-5687	.0022 MFD DISC 500V
C460	22-14	.0047 MFD DISC 500V
C461	22-7512	.01 MFD DISC 25V
C462	22-7153	1 MFD ELECTROLYTIC 50V
C463	22-2939	680 PF DISC 500V
C465	22-7143	1 MFD ELECTROLYTIC 50V
C466	22-2939	680 PF DISC 500V
C467	22-3177	390 PF DISC 500V
C470	22-7150-09	220 MFD ELECTROLYTIC 10V
C472	22-7152-11	470 MFD ELECTROLYTIC 25V
C473	22-5047-01	.047 MFD MYLAR 100V
C501	22-5812	.01 MFD DISC 500V
C502	22-5812	.01 MFD DISC 500V
C503	22-7134-13	1000 MFD ELECTROLYTIC 35V
C504	22-7151-11	470 MFD ELECTROLYTIC 16V
C505	22-7150-07	47 MFD ELECTROLYTIC 10V
C506	22-5047-01	.047 MFD MYLAR 100V
C507	22-5026	.01 MFD DISC 100V
C508	22-5026	.01 MFD DISC 100V
R1	63-0922	390 OHM 5% (ALT 63-7768 1/2W 10%)
R2	63-4133	4.7K OHM
R3	63-0921-64	470 OHM 5% (ALT 63-7772 1/2W 20%)
R4	63-0921-78	1.8K OHM 5% (ALT 63-7798 1/2W 10%)
R5	63-0921-78	1.8K OHM 5% (ALT 63-10153-78 1/6W 10%)
R6	63-0921-90	12K OHM 5% (ALT 63-7831 1/2W 10%)
R7	63-0922-36	470K OHM 5% (ALT 63-7898 1/2W 10%)
R8	63-4122	33 OHM
R9	63-0922-36	470K OHM 5% (ALT 63-7898 1/2W 20%)
R101	63-0922	15K OHM 5% (ALT 63-7834 1/2W 10%)
R102	63-1808	82K OHM 1/2W
R103	63-0921-96	10K OHM 5% (ALT 63-7827 1/2W 10%)
R104	63-0921-72	10 OHM 5% (ALT 63-7785 1/2W 10%)
R105	63-1799	2.2K OHM 1/2W
R106	63-0921-64	470 OHM 5% (ALT 63-7771 1/2W 10%)
R107	63-1771	470 OHM 1/2W
R201	63-0921-68	680 OHM 5% (ALT 63-7778 1/2W 10%)
R202	63-0921-58	270 OHM 5% (ALT 63-7761 1/2W 10%)
R203	63-0921-64	470 OHM 5% (ALT 63-7772 1/2W 20%)
R204	63-0921-94	3.3K OHM 5% (ALT 63-7808 1/2W 10%)
R205	63-0921-96	10K OHM 5% (ALT 63-7827 1/2W 10%)
R206	63-0921-64	470 OHM 5% (ALT 63-7771 1/2W 10%)
R207	63-0921-72	1K OHM 5% (ALT 63-7785 1/2W 10%)
R208	63-0921-80	2.2K OHM 5% (ALT 63-7799 1/2W 10%)
R209	63-0921-64	470 OHM 5% (ALT 63-7772 1/2W 20%)
R210	63-0921-72	1K OHM 5% (ALT 63-7785 1/2W 10%)
R211	63-0921-66	560 OHM 5% (ALT 63-7773 1/2W 10%)
R212	63-0921-64	470 OHM 5% (ALT 63-7772 1/2W 20%)
R213	63-0921-68	680 OHM 5% (ALT 63-7779 1/2W 10%)
R214	63-0921-68	680 OHM 5% (ALT 63-7779 1/2W 10%)
R215	63-0921-88	4.7K OHM 5% (ALT 63-7813 1/2W 10%)
R216	63-0921-88	4.7K OHM 5% (ALT 63-7813 1/2W 10%)
R217	63-0921-80	2.2K OHM 5% (ALT 63-7799 1/2W 10%)
R218	63-0922-20	100K OHM 5% (ALT 63-7869 1/2W 10%)
R219	63-0923-04	22K OHM 5% (ALT 63-7841 1/2W 10%)
R220	63-0921-94	3.3K OHM 5% (ALT 63-7808 1/2W 10%)
R221	63-0921-98	3.9K OHM 5% (ALT 63-7810 1/2W 10%)
R224	63-0922-36	470K OHM 5% (ALT 63-7898 1/2W 20%)
R225	63-0921-50	2.2K OHM 5% (ALT 63-7799 1/2W 10%)
R301	63-0921-95	12K OHM 5% (ALT 63-7831 1/2W 10%)
R302	63-9607-26	500 OHM MUTE CONTROL (ALT 63-9251 1/4W 20%)
R303	63-0922-34	390K OHM (ALT 63-7894 1/2W 10%)
R304	63-1789	1.2K OHM 1/2W 10%
R305	63-6045	270 OHM 1W
R306	63-0921-90	5.6K OHM 5% (ALT 63-7816 1/2W 5%)
R307	63-0921-90	5.6K OHM 5% (ALT 63-7816 1/2W 5%)
R308	63-0922-20	100K OHM 5% (ALT 63-7869 1/2W 10%)
R309	63-0922-20	100K OHM 5% (ALT 63-7869 1/2W 10%)
R310	63-4147	120 OHM 10% 1/4W
R401	63-0922-66	6.2 MEG OHM 5% (ALT 63-7950 1/2W 10%)
R403	63-1876	120K OHM 1/2W
R405	63-0922-06	27K OHM 5% (ALT 63-7845 1/2W 10%)
R406	63-0922-08	33K OHM 5% (ALT 63-7848 1/2W 10%)
R407	63-1805	3.3K OHM 1/2W
R409(R)	63-9255	100K DUAL LOUDNESS CONTROL (ALT 63-10160)
R409(L)	63-9255	
R409	63-0922-04	22K OHM 5% (ALT 63-7841 1/2W 10%)
R410(R)	63-9257	500K DUAL BASS CONTROL (ALT 63-10162)
R410(L)		
R411	63-9922-28	220K OHM 5% (ALT 63-7893 1/2W 10%)
R412(R)	63-9256	50K DUAL TREBLE CONTROL (ALT 63-10161)
R412(L)		
R413	63-9924-48	1.5 MEG OHM (ALT 63-7918 1/2W 10%)
R414	63-9921-94	3.3K OHM 5% (ALT 63-7808 1/2W 10%)
R415	63-9921-44	68 OHM 5% (ALT 63-7736 1/2W 10%)
R416	63-0922-12	47K OHM 5% (ALT 63-7854 1/2W 5%)
R417	63-9921-88	4.7K OHM 5% (ALT 63-7813 1/2W 10%)
R418	63-9921-96	8.2K OHM 5% (ALT 63-7824 1/2W 10%)
R419	63-9948-56	220 OHM 1/2W 5% (ALT 63-7757 1/2W 10%)
R420	63-9948-58	270 OHM 1/2W 5% (ALT 63-7761 1/2W 10%)
R421	63-9946-28	15 OHM 1/2W 5% (ALT 63-7707 1/2W 5%)
R422	63-10595	1 OHM 1/2W
R423	63-9921-90	12K OHM 5% (ALT 63-7831 1/2W 10%)
R424	63-9922-32	330K OHM 5% (ALT 63-7891 1/2W 20%)
R425	63-9254	500K BALANCE CONTROL (ALT 63-10159)
R430	63-1757	220 OHM 1/2W
R432	63-10135	11 OHM 5W
R451	63-9922-66	6.2 MEG OHM 5% (ALT 63-7950 1/2W 10%)
R453	63-1876	150K OHM 1/2W
R455	63-9922-06	27K OHM 5% (ALT 63-7845 1/2W 10%)
R456	63-9922-08	33K OHM 5% (ALT 63-7848 1/2W 10%)
R457	63-1805	3.3K OHM 1/2W
R459	63-9922-04	22K OHM 5% (ALT 63-7841 1/2W 10%)
R461	63-9922-28	220K OHM 5% (ALT 63-7893 1/2W 10%)
R463	63-9924-48	1.5 MEG OHM 10% (ALT 63-7918 1/2W 10%)
R464	63-0921-94	3.3K OHM 5% (ALT 63-7808 1/2W 10%)
R465	63-0921-44	68 OHM 5% (ALT 63-7736 1/2W 10%)
R466	63-0922-12	47K OHM 5% (ALT 63-7854 1/2W 5%)
R467	63-0921-88	4.7K OHM 5% (ALT 63-7813 1/2W 10%)
R468	63-0921-94	8.2K OHM 5% (ALT 63-7824 1/2W 10%)
R469	63-9946-56	220 OHM 1/2W 5% (ALT 63-7757 1/2W 10%)
R470	63-9946-58	270 OHM 1/2W 5% (ALT 63-7761 1/2W 10%)
R471	63-9946-28	15 OHM 1/2W 5% (ALT 63-7707 1/2W 5%)
R472	63-10595	1 OHM 1/2W
R473	63-0921-98	12K OHM 5% (ALT 63-7831 1/2W 10%)
R480	63-1757	220 OHM 1/2W
R501(R)	63-10142	220 OHM
R501(L)	63-10142	
R502(R)	63-0921-04	1.5 MEG OHM 5% (ALT 63-7918 1/2W 10%)
R502(L)	63-0921-04	
R503(R)	63-0921-90	5.6K OHM 5% (ALT 63-7816 1/2W 5%)
R503(L)	63-0921-90	
R504(R)	63-0921-80	2.2K OHM 5% (ALT 63-7799 1/2W 10%)
R504(L)	63-0921-80	
R505(R)	63-0921-72	1K OHM 5% (ALT 63-7785 1/2W 10%)
R505(L)	63-0921-72	
L1	20-3291	FM ANTENNA COIL
L2	20-1648	FM RF COIL
L3	20-1631	TRAP COIL 10.7 MHz
L4	20-3597	FM OSCILLATOR COIL
L101	5-92292-01	AM ANTENNA ASSEMBLY
L102	149-311	FERRITE CORE SLEEVE
L103	IN T101	AM OSCILLATOR TRANS. PRI.
L104	IN T101	AM OSCILLATOR TRANS. SEC.
L201	IN T201	1ST IF TRANSFORMER 10.7 MHz PRI.
L202	IN T201	1ST IF TRANSFORMER 10.7 MHz SEC.
L203	IN T202	1ST IF AM 455 KHz PRI.
L204	IN T202	1ST IF AM 455 KHz SEC.
L205	IN T203	2ND IF TRANSFORMER 10.7 MHz PRI.
L206	IN T203	2ND IF TRANSFORMER 10.7 MHz SEC.
L207	IN T204	2ND IF AM 455 KHz
L208	IN T205	3RD IF TRANSFORMER 10.7 MHz PRI.
L209	IN T205	3RD IF TRANSFORMER 10.7 MHz SEC
L210	IN T206	3RD IF AM 455 KHz PRI.
L211	IN T206	3RD IF AM 456 KHz SEC.
L212	IN T207	RATIO DETECTOR TRANS. 10.7 MHz PRI.
L213	IN T207	RATIO DETECTOR TRANS. 10.7 MHz TERTIARY
L214	IN T207	RATIO DETECTOR TRANS. 10.7 MHz SEC.
T101	95-3077	AM OSCILLATOR TRANSFORMER
T201	95-2546	FM 1ST IF TRANSFORMER 10.7 MHz
T202	95-2541	AM 1ST IF AM 455 KHz
T203	95-2547	FM 2ND IF TRANSFORMER 10.7 MHz
T204	95-2542	AM 2ND IF AM 455 KHz
T205	95-2548	FM 3RD IF TRANSFORMER 10.7 MHz
T206	95-2689	AM 3RD IF AM 455 KHz
T207	95-2546	FM RATIO DETECTOR 10.7 MHz
T301	95-3248	INPUT COIL 19 KHz
T302	95-3023	DETECTOR COIL 38 KHz
T-75015	95-3152	POWER TRANSFORMER
SWXI	85-1130	BAND SWITCH (ALT 85-1129-01)
SW2	85-1437-01 OR	AFC SWITCH (SLIDE SP-DT) PREFERRED
SW3	85-1372-01 OR	ALTERNATE SPEAKER SWITCH (SLIDE SP-DT)
J1	78-2137-01	STEREO HEADPHONE JACK
CR1	103-47 OR 103-189	AFC DIODE
CR101	103-142-01	SILICON DIODE
CR201	103-23-01	GERMANIUM DIODE
CR202	103-90-1	GERMANIUM DIODES (MATCHED PAIR)
CR203	103-90-1	
CR204	103-23	GERMANIUM DIODE
CR451	103-222	DIODE
CR452	103-222	DIODE
CR501(R)	112-76	SILICON RECTIFIER
CR501(L)	112-76	SILICON RECTIFIER
CR502	103-56	DIODE
CR503	103-56	DIODE
IC-301	221-79-01 OR 221-79	MONOLITHIC MULTIPLEX DEMODULATOR (SEE C306)
DS301	100-611	STEREO INDICATOR LIGHT
DS-301	100-608	FM DIAL LIGHT
DS-302	100-609	POWER LIGHT
DS-303	100-609	AM DIAL LIGHT
DS-304	100-610	PILOT LIGHT
PC	204-564	PRINTED CIRCUIT BOARD
F-501	126-117-12	.75 AMPERE SLO BLO FUSE
FX502	126-115-15	1 AMP REGULAR FUSE
		PORTION OF CIRCUIT COMPONENTS

S179C2

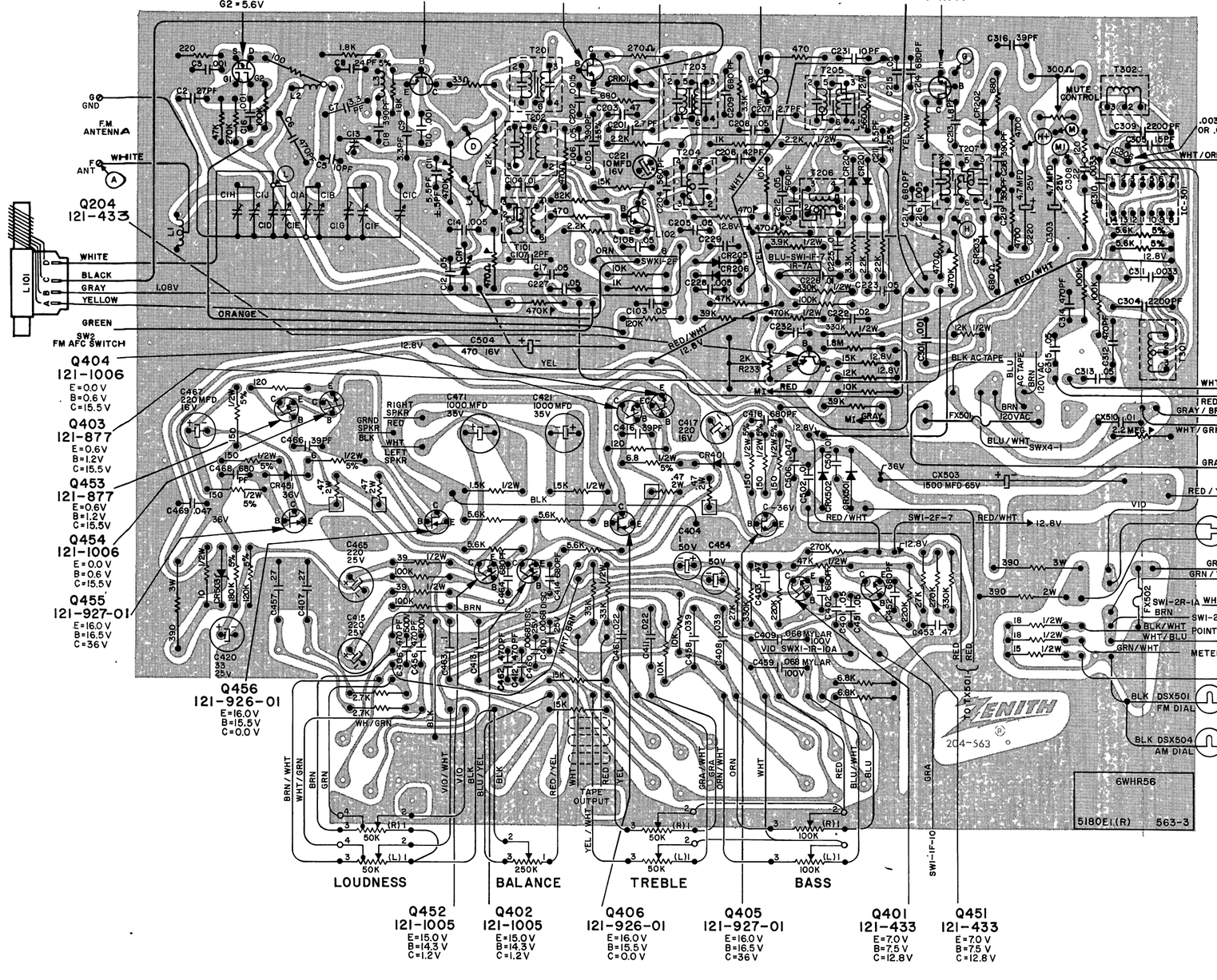
CHASSIS LEGEND 6WHR55

ITEM NO	PART NUMBER	DESCRIPTION
C1A		FM DETECTOR TRIMMER
C1B		FM DETECTOR TUNING
C1C		FM OSCILLATOR TUNING
C1D		AM ANTENNA TRIMMER
C1E		AM ANTENNA TUNING
C1F	22-7134	AM OSCILLATOR TUNING
C1G		AM OSCILLATOR TRIMMER
C1H		FM ANTENNA TRIMMER
C1J		FM ANTENNA TUNING
C2	22-2396	27 PF DISC 500V
C3	22-2729	.001 MFD DISC 25V
C5	22-2675	10 PF DISC ±5% 500V
C6	22-5761	470 PF DISC 1000V
C7	22-2541	3.3 PF GIMMICK ±5% 500V
C8	22-2515	24 PF DISC ±5% 500V
C9	22-5879	3.3 PF DISC ±.25 PF 25V
C10	22-2729	.001 MFD DISC 25V
C11	22-5878	5.5 PF DISC ±0.5 PF 500V
C12	22-3034	.05 MFD DISC 25V
C13	22-4855	1.7 TO 10PF CERAMIC TRIMMER
C14	22-3080	.005 MFD DISC 25V
C16	22-2729	.001 MFD DISC 25V
C17	22-3034	.05 MFD DISC 25V
C18	22-3177	390 PF DISC 500V
C103	22-3034	.05 MFD DISC 25V
C104	22-3393	.01 MFD DISC 25V
C105	22-5872	390 PF ±5% POLYSTYRENE 125V
C106	22-3034	.05 MFD DISC 25V
C107	22-4819	2 PF 04700 ±.25 PF 500V
C108	22-3034	.05 MFD DISC 25V
C201	22-3310	2.7 PF GIMMICK ±10% 500V
C202	22-5483	.0015 MFD DISC 500V
C203	22-5487	.47 MFD DISC 3V
C204	22-5481	560 PF DISC 500V
C205	22-3034	.05 MFD DISC 25V
C206	22-3791	42 PF DISC ±5% 500V
C207	22-3310	2.7 PF GIMMICK ±10% 500V
C208	22-3034	.05 MFD DISC 25V
C209	22-5482	680 PF DISC 500V
C210	22-5481	560 PF DISC 500V
C211	22-3770	5.5 PF DISC ±.25 PF 500V
C212	22-3034	.05 MFD DISC 25V
C213	22-3310	1.8 PF GIMMICK ±10% 500V
C214	22-5482	680 PF DISC 500V
C215	22-3034	.05 MFD DISC 25V
C216	22-3080	.005 MFD DISC 25V
C217	22-5482	680 PF DISC 500V
C218	22-3177	390 PF DISC 500V
C219	22-3177	390 PF DISC 500V
C220	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C221	22-7151-04	10 MFD ELECTROLYTIC 16V
C222	22-5969	.02 MFD DISC 25V
C223	22-3034	.05 MFD DISC 25V
C225	22-7512	.01 MFD DISC 25V
C226	22-3393	.01 MFD DISC 25V
C227	22-3034	.05 MFD DISC 25V
C228	22-3080	.005 MFD DISC 25V
C229	22-3652	1 MFD DISC 10V
C231	22-3675	10 PF DISC ±5% 500V
C232	22-3652	1 MFD DISC 10V
C301	22-2729	.001 MFD DISC 25V
C303	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C304	22-5782	2200 PF POLYSTYRENE ±5% 500V
C305	22-3728	15 PF DISC 500V
C306	22-13	.0033 MFD DISC 500V (USED WITH 221-79-01)
	OR	
	22-5581	.0039 MFD DISC 500V (USED WITH 221-79)
C308	22-3527	.22 MFD DISC 12V
C309	22-5782	2200 PF POLYSTYRENE ±5% 500V
C310	22-13	.0033 MFD DISC 500V
C311	22-13	.0033 MFD DISC 500V
C312	22-16	470 PF DISC 500V
C313	22-3034	.05 MFD DISC 25V
C314	22-16	470 PF DISC 500V
C315	22-3034	.05 MFD DISC 25V
C316	22-3381	39 PF ±5% DISC 500V
C401	22-3034	.05 MFD DISC 25V
C402	22-2939	680 PF DISC 500V
C403	22-5487	.47 MFD DISC 3V
C404	22-7153	1 MFD ELECTROLYTIC 50V
C406	22-3255	330 PF DISC 500V
C407	22-5964	.27 MFD MYLAR 50V
C408	22-7202	.039 MFD MYLAR 50V
C409	22-6905	1 MFD MYLAR 50V
C410	22-14	.0047 MFD DISC 500V
C411	22-6814	.022 MFD MYLAR 20% 100V
C412	22-16	470 PF DISC 500V
C413	22-6905	1 MFD MYLAR 10% 50V
C414	22-2939	680 PF DISC 500V
C415	22-7152-09	220 MFD ELECTROLYTIC 25V
C416	22-3381	39 PF DISC ±5% 500V
C417	22-7151-09	220 MFD ELECTROLYTIC 16V
C418	22-2939	680 PF DISC 500V
C420	22-7152-06	33 MFD ELECTROLYTIC 25V
C421	22-7154-12	1000 MFD ELECTROLYTIC 35V
C451	22-3034	.05 MFD DISC 25V
C452	22-2939	680 PF DISC 500V
C453	22-5487	.47 MFD DISC 3V
C454	22-7153	1 MFD ELECTROLYTIC 50V
C456	22-3255	330 PF DISC 500V
C457	22-5964	.27 MFD MYLAR 50V
C458	22-7202	.039 MFD MYLAR 50V
C459	22-6905	1 MFD MYLAR 50V
C460	22-14	.0047 MFD DISC 500V
C461	22-5814	.022 MFD MYLAR 20% 100V
C462	22-16	470 PF DISC 25V
C463	22-6905	1 MFD MYLAR 10% 50V
C464	22-2939	680 PF DISC 500V
C465	22-7153-06	220 MFD ELECTROLYTIC 25V
C466	22-3381	39 PF DISC ±5% 500V
C467	22-7151-06	220 MFD ELECTROLYTIC 16V
C468	22-2939	680 PF DISC 500V
C469	22-7326	.047 MYLAR ±20% 100V
C471	22-7154-12	1000 MFD ELECTROLYTIC 35V
C501 *	22-5812	.01 MFD DISC 500V
C502 *	22-4917	.01 MFD DISC 500V
CX503 *	22-7113	1500 MFD ELECTROLYTIC 65V
C504 *	22-7151-11	470 MFD ELECTROLYTIC 16V
C505 *	22-7326	.047 MFD MYLAR ±20% 100V
CX510 *	22-6028	.01 MFD DISC 1500VAC
CX511 *	22-6028	.01 MFD DISC 1500VAC
R1	63-9921-56	220 OHM 5% (ALT 63-10183-56 1/4W 10%)
R2	63-9922-20	100K OHM 5% (ALT 63-10184-20 1/4W 10%)
R3	63-9921-64	470 OHM 5% (ALT 63-7772 1/2W 20%)
R4	63-9921-78	1.8K OHM 5% (ALT 63-7790 1/2W 10%)
R5	63-4196	1.8K OHM 1/2W
R6	63-9921-96	12K OHM 5 (ALT 63-7831 1/2W 10%)
R7	63-9922-36	470K OHM 5% (ALT 63-7898 1/2W 20%)
R8	63-4122	33 OHM 1/2W
R9	63-9922-36	470K OHM 5% (ALT 63-7898 1/2W 20%)
R10	63-4142	100 OHM 1/4W 5%
R11	63-9922-30	270K OHM 5% (ALT 63-10184-30 1/4W 10%)
R12	63-9922-12	47K OHM 5% (ALT 63-10184-12 1/4W 10%)
R101	63-9922-00	15K OHM 5% (ALT 63-7834 1/2W 10%)
R102	63-9922-18	82K OHM 5% (ALT 63-7852 1/2W 10%)
R103	63-9921-96	10K OHM 5% (ALT 63-7827 1/2W 10%)
R104	63-9921-72	1K OHM 5% (ALT 63-7785 1/2W 10%)
R105	63-9921-80	2.2K OHM 5% (ALT 63-7799 1/2W 10%)
R106	63-1771	470 OHM 1/2W
R107	63-9921-64	470 OHM 5% (ALT 63-7771 1/2W 10%)
R201	63-1778	680 OHM 5% (ALT 63-7778 1/2W 10%)
R202	63-1761	270 OHM 5% (ALT 63-7761 1/2W 10%)
R203	63-1772	470 OHM 5% (ALT 63-7772 1/2W 20%)
R204	63-1806	3.3K OHM 5% (ALT 63-7808 1/2W 10%)
R205	63-1827	10K OHM 5% (ALT 63-7827 1/2W 10%)
R206	63-1771	470 OHM 5% (ALT 63-7771 1/2W 10%)
R207	63-9921-72	1K OHM 5% (ALT 63-7785 1/2W 10%)
R208	63-1799	2.2K OHM 1/2W
R209	63-9921-64	470 OHM 5% (ALT 63-7772 1/2W 20%)
R210	63-9921-72	1K OHM 5% (ALT 63-10183-72 1/4W 10%)
R211	63-1775	560 OHM 1/4W
R212	63-9921-64	470 OHM 5% (ALT 63-7772 1/2W 20%)
R213	63-9921-68	680 OHM 5% (ALT 63-7778 1/2W 10%)
R214	63-9921-68	680 OHM 5% (ALT 63-7778 1/2W 10%)
R215	63-9921-88	4700 OHM 5% (ALT 63-7813 1/2W 10%)
R216	63-9921-88	4700 OHM 5% (ALT 63-7813 1/2W 10%)
R217	63-9921-80	2.2K OHM 5% (ALT 63-7799 1/2W 10%)
R218	63-9922-20	100K OHM 5% (ALT 63-7869 1/2W 10%)
R219	63-9922-04	22K OHM 5% (ALT 63-7841 1/2W 10%)
R220	63-9921-84	3.3K OHM 5% (ALT 63-7806 1/2W 10%)
R221	63-1810	3.9K OHM 1/2W
R223	63-1890	330K OHM 1/2W
R224	63-9921-64	470K OHM 5% (ALT 63-7772 1/2W 20%)
R225	63-9921-80	2.2K OHM 5% (ALT 63-7799 1/2W 10%)
R227	63-9922-12	47K OHM 5% (ALT 63-7855 1/2W 10%)
R228	63-9922-10	39K OHM 5% (ALT 63-7852 1/2W 10%)
R229	63-9922-22	120K OHM 5% (ALT 63-7872 1/2W 10%)
R230	63-1897	470K OHM 1/2W
R231	63-9924-90	1.8 MEG OHM 10% (ALT 63-7922 1/2W 10%)
R232	63-9922-32	330K OHM 5% (ALT 63-7890 1/2W 10%)
R233	63-6250	2K OHM METER CONTROL
R234	63-9922-00	15K OHM 5% (ALT 63-7834 1/2W 10%)
R235	63-9922-98	12K OHM 5% (ALT 63-7831 1/2W 10%)
R236	63-9921-96	10K OHM 5% (ALT 63-7827 1/2W 10%)
R237	63-9922-10	39K OHM 5% (ALT 63-7852 1/2W 10%)
R301	63-1831	12K OHM 1/2W 10%
R302	63-6697-26	500 OHM MUTE CONTROL (ALT 63-9261)
R303	63-9922-34	390K OHM 5% (ALT 63-7894 1/2W 10%)
R304	63-1458	390 OHM 2W
R305	63-1820-20	390 OHM 3W
R306	63-9921-80	5.6K OHM ±5% (ALT 63-7816 1/2W 5%)
R307	63-9921-80	5.6K OHM + 5% (ALT 63-7816 1/2W 5%)
R308	63-9922-30	270K OHM 5% (ALT 63-7869 1/2W 10%)
R309	63-9922-20	100K OHM 5% (ALT 63-7869 1/2W 10%)
R310	63-4147	120 OHM 10% 1/4W
R401	63-9922-30	270K OHM 5% (ALT 63-7887 1/2W 10%)
R402	63-1855	47K OHM
R403	63-9922-28	220K OHM 5% (ALT 63-7883 1/2W 10%)
R404	63-9922-32	330K OHM 5% (ALT 63-7890 1/2W 10%)
R405	63-9922-06	27K OHM 5% (ALT 63-7845 1/2W 10%)
R406	63-1848	33K OHM
R407	63-9921-82	2.7K OHM 5% (ALT 63-7803 1/2W 10%)
R408R1	63-9955	50K DUAL LOUDNESS CONTROL
R408L1		
R409	63-9921-96	10K OHM 5% (ALT 63-7827 1/2W 10%)
R410R1	63-9956	100K DUAL BASS CONTROL
R410L1		
R411	63-9921-92	6.8K OHM 5% (ALT 63-7820 1/2W 10%)
R412R1	63-9256	50K DUAL TREBLE CONTROL
R412L1		
R413	63-9922-00	15K OHM 5% (ALT 63-7834 1/2W 10%)
R414	63-9953	250K BALANCE CONTROL
R415	63-9921-80	5.6K OHM 5% (ALT 63-7817 1/2W 10%)
R416	63-1729	47 OHM
R417	63-9921-90	8.8K OHM 5% (ALT 63-7817 1/2W 10%)
RX418 *	63-9946-52	150 OHM ±5% 1/2W (ALT 63-7749 1/2W 5%)
R419	63-1749	150 OHM ±5% 1/2W (ALT 63-7749 1/2W 5%)
R420	63-9946-52	150 OHM ±5% 1/2W (ALT 63-7749 1/2W 5%)
R421	63-9946-20	6.8 OHM ±5% 1/2W (ALT 63-7968 1/2W 5%)
RX422 *	63-3798	47 OHM 2W
RX423 *	63-3798	47 OHM 2W
R424	63-9922-20	100K OHM 5% (ALT 63-7869 1/2W 10%)
R425	63-9922-26	180K OHM ±5% (ALT 63-7879 1/2W 5%)
R426	63-9922-22	120K OHM ±5% (ALT 63-7872 1/2W 5%)
R427	63-9921-92	120 OHM 5% (ALT 63-7747 1/2W 10%)
R428	63-9946-76	1500 OHM 5% 1/2W (ALT 63-7763 1/2W 20%)
R430	63-1757	220 OHM
R451	63-9922-30	270K OHM 5% (ALT 63-7887 1/2W 10%)
R453	63-9922-28	220K OHM 5% (ALT 63-7883 1/2W 10%)
R454	63-9922-32	330K OHM 5% (ALT 63-7890 1/2W 10%)
R455	63-9922-06	27K OHM 5% (ALT 63-7845 1/2W 10%)
R456	63-9922-08	33K OHM 5% (ALT 63-7848 1/2W 10%)
R457	63-9921-82	2.7K OHM 5% (ALT 63-7803 1/2W 10%)
R459	63-9921-96	10K OHM 5% (ALT 63-7827 1/2W 10%)
R461	63-9921-92	6.8K OHM 5% (ALT 63-7820 1/2W 10%)
R463	63-9922-00	15K OHM 5% (ALT 63-7834 1/2W 10%)
R465	63-9921-90	5.6K OHM 5% (ALT 63-7817 1/2W 10%)
R466	63-1729	47 OHM
R467	63-9921-90	5.6K OHM 5% (ALT 63-7817 1/2W 10%)
RX468 *	63-9946-52	150 OHM ±5% 1/2W (ALT 63-7749 1/2W 5%)
R469	63-9946-52	150 OHM ±5% 1/2W (ALT 63-7749 1/2W 5%)
R470	63-9946-52	150 OHM ±5% 1/2W (ALT 63-7749 1/2W 5%)
R471	63-4535	8.2 OHM ±5% 1/2W
RX472 *	63-3798	47 OHM 2W
RX473 *	63-3798	47 OHM 2W
R474	63-9922-20	100K OHM 5% (ALT 63-7869 1/2W 10%)
R477	63-9921-50	120 OHM 5% (ALT 63-7747 1/2W 10%)
R478	63-9946-76	1500 OHM 5% 1/2W (ALT 63-7793 1/2W 20%)
R480	63-1757	220 OHM 1/2W
RX501 *	63-10416-66	330 OHM 3W
RX502 *	63-9948-24	10 OHM 5% 1/2W (ALT 63-7701 1/2W 10%)
RX505 *	63-10586-61	2.2 MEG OHM 20%
RX507 *	63-9948-28	15 OHM 5% 1/2W (ALT 63-7708 1/2W 10%)
L1	20-3664	FM ANTENNA COIL
L2	20-3665	FM RF COIL
L3	20-1631	TRAP COIL 10.7 MHz
L4	20-3597	FM OSCILLATOR COIL
L101	5-93292-01	AM ANTENNA ASSEMBLY
L102	149-211	FERRITE CORE SLEEVE
L103	IN T101	AM OSCILLATOR TRANS. PRI.
L104	IN T101	AM OSCILLATOR TRANS. SEC.
L201	IN T201	1ST IF TRANSFORMER 10.7 MHz PRI
L202	IN T201	1ST IF TRANSFORMER 10.7 MHz SEC
L203	IN T202	1ST IF AM 455 KHz PRI.
L204	IN T202	1ST IF 455 KHz SEC.
L205	IN T203	2ND IF TRANSFORMER 10.7 MHz PRI.
L206	IN T203	2ND IF TRANSFORMER 10.7 MHz SEC.
L207	IN T204	2ND IF AM 455 KHz
L208	IN T205	3RD IF TRANSFORMER 10.7 MHz PRI.
L209	IN T205	3RD IF TRANSFORMER 10.7 MHz SEC.
L210	IN T206	3RD IF AM 455 KHz PRI.
L211	IN T206	3RD IF AM 455 KHz SEC.
L212	IN T207	RATIO DETECTOR TRANSFORMER 10.7 MHz PRI.
L213	IN T207	RATIO DETECTOR TRANSFORMER 10.7 MHz TERTIARY
L214	IN T207	RATIO DETECTOR TRANSFORMER 10.7 MHz SEC
T101	95-3271	AM OSCILLATOR TRANSFORMER
T201	95-2546	FM 1ST TRANSFORMER 10.7 MHz
T202	95-2541	AM 1ST IF AM 455 KHz
T203	95-2547	FM 2ND TRANSFORMER 10.7 MHz
T204	95-2541	AM 2ND IF AM 455 KHz
T205	95-2548	FM 3RD IF TRANSFORMER 10.7 MHz
T206	95-2689	AM 3RD IF AM 455 KHz
T207	95-2545	FM RATIO DETECTOR 10.7 MHz
T301	95-3248	INPUT COIL 19 KHz
T302	95-3023	DETECTOR COIL 38KHz
TX501 *	95-3174-01	POWER TRANSFORMER
SW1 *	85-1538	BAND SWITCH
SW2	85-1637-01 OR 85-1372-01	AFC SWITCH (SLIDE SP-DT) PREFERRED OR ALTERNATE
J1	78-2137-01	STEREO HEADPHONE JACK
CR1	103-47 OR 103-189	AFC DIODE
CR101	103-142-01	SILICON DIODE
CR201	103-23-01	GERMANIUM DIODE
CR202	103-90	GERMANIUM DIODES (MATCHED PAIR)
CR203	103-90	
CR204	103-23-01	GERMANIUM DIODE
CR205	103-23-01	GERMANIUM DIODE
CR206	103-23-01	GERMANIUM DIODE
CR401	103-222-01	SILICON DIODE
CR451	103-222-01	SILICON DIODE
CRX501 *	212-76	SILICON RECTIFIER
CRX502 *	212-76	SILICON RECTIFIER
CR503 *	103-86	DIODE (ZENER)
IC-301	221-79-01 OR 221-79	MONOLITHIC MULTIPLEX DEMODULATOR (SEE C306)
DS301	100-611	STEREO INDICATOR LIGHT
DRX506 *	100-243	PILOT LIGHT
BC *	604-593	PRINTED CIRCUIT BOARD
FX501 *	136-117-17	.75 AMP SLO BLO FUSE
FX502 *	136-114-12	.5 AMP REGULAR FUSE
M1	12268 OR 12268-03	TUNING METER
		INTEGRATED CIRCUIT COMPONENTS

5183E2



CHASSIS 6WHR55 – CHASSIS WIRING AND COMPONENTS VIEWED FROM FOIL SIDE



CHASSIS 6WHR56 – CHASSIS WIRING AND COMPONENTS VIEWED FROM FOIL SIDE

CHASSIS LEGEND 6WHR56

ITEM NO	PART NUMBER	DESCRIPTION
C1A		F.M. DETECTOR TRIMMER
C1B		F.M. DETECTOR TUNING
C1C		F.M. OSCILLATOR TUNING
C1D		A.M. ANTENNA TRIMMER
C1E		A.M. ANTENNA TUNING
C1F	22-7134	A.M. OSCILLATOR TUNING
C1G		A.M. OSCILLATOR TRIMMER
C1H		F.M. ANTENNA TRIMMER
C1J		F.M. ANTENNA TUNING
C2	22-2396	27 PF DISC 500V
C3	22-2729	.001 MFD DISC 25V
C5	22-3675	10 PF DISC ±5% 500V
C6	22-5761	470 PF DISC 1000V
C7	22-3541	3.3 PF GIMMICK ±5% 500V
C8	22-2515	24 PF DISC ±5% 500V
C9	22-5879	3.3 PF DISC ±.25 PF 25V
C10	22-2729	.001 MFD DISC 25V
C11	22-5879	3.3 PF DISC ±0.5 PF 500V
C12	22-3034	.05 MFD DISC 25V
C13	22-4855	1.7 TO 10 PF CERAMIC TRIMMER
C14	22-3080	.005 MFD DISC 25V
C16	22-2729	.001 MFD DISC 25V
C17	22-3034	.05 MFD DISC 25V
C18	22-3177	390 PF DISC 500V
C103	22-3034	.05 MFD DISC 25V
C104	22-3393	.01 MFD DISC 25V
C105	22-5972	390 PF ±5% POLYSTYRENE 125V
C106	22-3034	.01 MFD DISC 25V
C107	22-4819	2 PF NA700 ±.25 PF 500V
C108	22-3034	.05 MFD DISC 25V
C201	22-3310	2.7 PF GIMMICK ±10% 500V
C202	22-5483	.0015 MFD DISC 500V
C203	22-5487	.47 MFD DISC 3V
C204	22-5481	560 PF DISC 500V
C205	22-3034	.01 MFD DISC 25V
C206	22-3791	42 PF DISC ±5% 500V
C207	22-3310	2.7 PF GIMMICK ±10% 500V
C208	22-3034	.05 MFD DISC 25V
C209	22-5482	680 PF DISC 500V
C210	22-5481	560 PF DISC 500V
C211	22-3770	5.5 PF DISC ±25 PF 500V
C212	22-3034	.05 MFD DISC 25V
C213	22-5487	.47 MFD DISC 3V
C214	22-5482	680 PF DISC 500V
C215	22-3034	.05 MFD DISC 25V
C216	22-3080	.005 MFD DISC 25V
C217	22-5482	680 PF DISC 500V
C218	22-3177	390 PF DISC 500V
C219	22-3177	390 PF DISC 500V
C220	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C221	22-7151-04	10 MFD ELECTROLYTIC 16V
C222	22-5989	.012 MFD DISC 25V
C223	22-3034	.05 MFD DISC 25V
C225	22-7512	.01 MFD DISC 25V
C226	22-3393	.01 MFD DISC 25V
C227	22-3034	.05 MFD DISC 25V
C228	22-3080	.005 MFD DISC 25V
C229	22-3652	1 MFD DISC 10V
C231	22-3675	10 PF DISC ±5% 500V
C232	22-3652	1 MFD DISC 10V
C301	22-2729	.001 MFD DISC 25V
C303	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C304	22-5782	2200 PF POLYSTYRENE ±5% 500V
C305	22-3728	15 PF DISC 500V
C306	22-13	.0033 MFD DISC 500V (USED WITH 221-79-01)
	OR	
	22-5581	.0039 MFD DISC 500V (USED WITH 221-79)
C308	22-3527	.22 MFD DISC 25V
C309	22-5782	2200 PF POLYSTYRENE ±5% 500V
C310	22-13	.0033 MFD DISC 500V
C311	22-13	.0033 MFD DISC 500V
C312	22-16	470 PF DISC 500V
C313	22-3034	.05 MFD DISC 25V
C314	22-16	470 PF DISC 500V
C315	22-3034	.05 MFD DISC 25V
C316	22-3381	39 PF ±5% DISC 500V
C401	22-3034	.05 MFD DISC 25V
C402	22-2939	680 PF DISC 500V
C403	22-5487	.47 MFD DISC 3V
C404	22-7153	1 MFD ELECTROLYTIC 50V
C406	22-16	470 PF DISC 500V
C407	22-5964	.27 MFD MYLAR 50V
C408	22-7202	.039 MFD MYLAR 50V
C409	22-6722	.068 MFD MYLAR 100V
C410	22-3415	.0068 MFD DISC 25V
C411	22-5814	.022 MFD MYLAR 20% 100V
C412	22-16	470 PF DISC 500V
C413	22-6905	1 MFD MYLAR 10% 50V
C414	22-2939	680 PF DISC 500V
C415	22-7152-09	220 MFD ELECTROLYTIC 25V
C416	22-3381	39 PF DISC ±5% 500V
C417	22-7151-09	220 MFD ELECTROLYTIC 16V
C418	22-2939	680 PF DISC 500V
C420	22-7152-06	33 MFD ELECTROLYTIC 25V
C421	22-7154-12	1000 MFD ELECTROLYTIC 35V
C451	22-3034	.05 MFD DISC 25V
C452	22-2939	680 PF DISC 500V
C453	22-5487	.47 MFD DISC 3V
C454	22-7153	1 MFD ELECTROLYTIC 50V
C456	22-16	470 PF DISC 500V
C457	22-5964	.27 MFD MYLAR 50V
C458	22-7202	.039 MFD MYLAR 50V
C459	22-6722	.068 MFD MYLAR 100V
C460	22-3415	.0068 MFD DISC 25V
C461	22-5814	.022 MFD MYLAR 20% 100V
C462	22-16	470 PF DISC 25V
C463	22-6905	1 MFD MYLAR 10% 50V
C464	22-2939	680 PF DISC 500V
C465	22-7152-9	220 MFD ELECTROLYTIC 25V
C466	22-3381	39 PF DISC ±5% 500V

ITEM NO	PART NUMBER	DESCRIPTION
C467	22-7151-09	220 MFD ELECTROLYTIC 16V
C468	22-2939	680 PF DISC 500V
C469	22-7326	.047 MYLAR ±20% 100V
C471	22-7154-12	1000 MFD ELECTROLYTIC 35V
*C501	22-4617	.01 MFD DISC 500V
*C502	22-4617	.01 MFD DISC 500V
*C503	22-7172	1500 MFD ELECTROLYTIC 65V
*C504	22-7151-11	470 MFD ELECTROLYTIC 16V
*C506	22-7326	.047 MFD MYLAR ±20% 100V
*C510	22-5025	.01 MFD DISC 15V (ALT. 22-4617)
R1	63-6921-56	220 OHM 5% (ALT 63-10183 1/2W 10%)
R2	63-9922-20	100K OHM 5% (ALT 63-10184-20 1/4W 10%)
R3	63-6921-64	470 OHM 5% (ALT 63-7772 1/2W 20%)
R4	63-6921-78	1.8K OHM 5% (ALT 63-7798 1/2W 10%)
R5	63-4196	1.8K OHM 1/2W
R6	63-6921-98	12K OHM 5% (ALT 63-7831 1/2W 10%)
R7	63-6922-36	470K OHM 5% (ALT 63-7898 1/2W 20%)
R8	63-4122	33 OHM 1/2W
R9	63-6922-36	470K OHM 5% (ALT 63-7898 1/2W 20%)
R10	63-4142	100 OHM 1/4W 5%
R11	63-9922-30	270K OHM 5% (ALT 63-10184-30 1/4W 10%)
R12	63-6922-12	47K OHM 5% (ALT 63-10184-12 1/4W 10%)
R101	63-9922-00	15K OHM 5% (ALT 63-7834 1/2W 10%)
R102	63-6922-18	82K OHM 5% (ALT 63-7866 1/2W 10%)
R103	63-6921-86	10K OHM 5% (ALT 63-7827 1/2W 10%)
R104	63-6921-72	1K OHM 5% (ALT 63-7785 1/2W 10%)
R105	63-6921-80	2.2K OHM 5% (ALT 63-7799 1/2W 10%)
R106	63-1771	470 OHM 1/2W
R107	63-6921-64	470 OHM 5% (ALT 63-7771 1/2W 10%)
R201	63-6921-68	680 OHM 5% (ALT 63-7778 1/2W 10%)
R202	63-6921-58	270 OHM 5% (ALT 63-7761 1/2W 10%)
R203	63-6921-64	470 OHM 5% (ALT 63-7772 1/2W 20%)
R204	63-6921-84	3.3K OHM 5% (ALT 63-7806 1/2W 10%)
R205	63-6921-86	10K OHM 5% (ALT 63-7827 1/2W 10%)
R206	63-6921-64	470 OHM 5% (ALT 63-7771 1/2W 10%)
R207	63-6921-72	1K OHM 5% (ALT 63-7785 1/2W 10%)
R208	63-1799	2.2K OHM 1/2W
R209	63-6921-64	470 OHM 5% (ALT 63-7772 1/2W 20%)
R210	63-6921-72	1K OHM 5% (ALT 63-10183-72 1/4W 10%)
R211	63-1775	560 OHM 1/4W
R212	63-6921-64	470 OHM 5% (ALT 63-7772 1/2W 20%)
R213	63-6921-68	680 OHM 5% (ALT 63-7778 1/2W 10%)
R214	63-6921-68	680 OHM 5% (ALT 63-7778 1/2W 10%)
R215	63-6921-63	470 OHM 5% (ALT 63-7813 1/2W 10%)
R216	63-6921-88	4700 OHM 5% (ALT 63-7813 1/2W 10%)
R217	63-6921-00	2.2K OHM 5% (ALT 63-7799 1/2W 10%)
R218	63-6922-20	100K OHM 5% (ALT 63-7869 1/2W 10%)
R219	63-6922-04	22K OHM 5% (ALT 63-7841 1/2W 10%)
R220	63-6921-84	3.3K OHM 5% (ALT 63-7806 1/2W 10%)
R221	63-1810	3.9K OHM 1/2W
R223	63-1890	330K OHM 1/2W
R224	63-6921-64	470K OHM 5% (ALT 63-7772 1/2W 20%)
R225	63-6921-80	2.2K OHM 5% (ALT 63-7799 1/2W 10%)
R227	63-6922-12	47K OHM 5% (ALT 63-7852 1/2W 10%)
R228	63-6922-10	39K OHM 5% (ALT 63-7852 1/2W 10%)
R229	63-6922-22	120K OHM 5% (ALT 63-7873 1/2W 10%)
R230	63-1897	470K OHM 1/2W
R231	63-9924-50	1.8 MEG OHM 10% (ALT 63-7922 1/2W 10%)
R232	63-6922-32	330K OHM 5% (ALT 63-7890 1/2W 10%)
R233	63-9250	2K OHM METER CONTROL
R234	63-6922-00	15K OHM 5% (ALT 63-7834 1/2W 10%)
R235	63-6921-98	12K OHM 5% (ALT 63-7831 1/2W 10%)
R236	63-6921-86	10K OHM 5% (ALT 63-7827 1/2W 10%)
R237	63-6922-10	39K OHM 5% (ALT 63-7852 1/2W 10%)
R301	63-1831	12K OHM 1/2W 10% (ALT 63-7831 1/2W 10%)
R302	63-9697-26	500 OHM MUTE CONTROL (ALT 63-9261 1/4W 20%)
R303	63-6922-34	390K OHM 5% (ALT 63-7894 1/2W 10%)
R304	63-1458	390 OHM 3W
*R305	63-4196	1.8K OHM 1/2W
R306	63-6921-90	5.6K OHM ±5% (ALT 63-7816 1/2W 5%)
R307	63-6921-90	5.6K OHM ±5% (ALT 63-7816 1/2W 5%)
R308	63-6922-20	100K OHM 5% (ALT 63-7869 1/2W 10%)
R309	63-6922-20	100K OHM 5% (ALT 63-7869 1/2W 10%)
R310	63-4147	120 OHM 10% 1/4W
R401	63-6922-30	270K OHM 5% (ALT 63-7887 1/2W 10%)
R402	63-1855	47K OHM
R403	63-6922-28	220K OHM 5% (ALT 63-7883 1/2W 10%)
R404	63-6922-32	330K OHM 5% (ALT 63-7890 1/2W 10%)
R405	63-6922-06	27K OHM 5% (ALT 63-7845 1/2W 10%)
R406	63-1848	33K OHM
R407	63-6921-82	2.7K OHM 5% (ALT 63-7803 1/2W 10%)
R408(R)	63-10189-01	50K DUAL LOUDNESS CONTROL (ALT 63-10189-03)
R408(L)		
R409	63-6921-96	10K OHM 5% (ALT 63-7827 1/2W 10%)
R410(R)	63-6982-01	100K DUAL BASS CONTROL (ALT 63-6982-03)
R410(L)		
R411	63-6921-92	6.8K OHM 5% (ALT 63-7820 1/2W 10%)
R412(R)	63-6983-01	50K DUAL TREBLE CONTROL (ALT 63-6983-03)
R412(L)		
R413	63-6922-00	15K OHM 5% (ALT 63-7834 1/2W 10%)
R414	63-6981-01	250K BALANCE CONTROL (ALT 63-6981-03)
R415	63-6921-90	5.6K OHM 5% (ALT 63-7817 1/2W 10%)
R416	63-1726	39 OHM
R417	63-6921-90	5.6K OHM 5% (ALT 63-7817 1/2W 10%)
*R418	63-9946-52	150 OHM 5% 1/2W (ALT 63-7749 1/2W 5%)
R418	63-1749	150 OHM 5% 1/2W (ALT 63-7749 1/2W 5%)
R420	63-9946-52	150 OHM 5% 1/2W (ALT 63-7749 1/2W 5%)
R421	63-9946-28	6.8 OHM 5% 1/2W (ALT. 63-7968 1/2W 5%)
*R422	63-6984	47 OHM 2W
*R423	63-6984	47 OHM 2W
R424	63-9922-20	100K OHM 5% (ALT 63-7869 1/2W 10%)
R425	63-6922-18	180K OHM ±5% (ALT 63-7879 1/2W 5%)
R426	63-9922-22	120K OHM ±5% (ALT 63-7872 1/2W 5%)
R427	63-9921-56	120 OHM 5% (ALT 63-7747 1/2W 10%)
R428	63-9946-76	1500 OHM 5% (ALT 63-7793 1/2W 20%)
R430	63-1757	220 OHM
R432	63-10135	11 OHM 5W

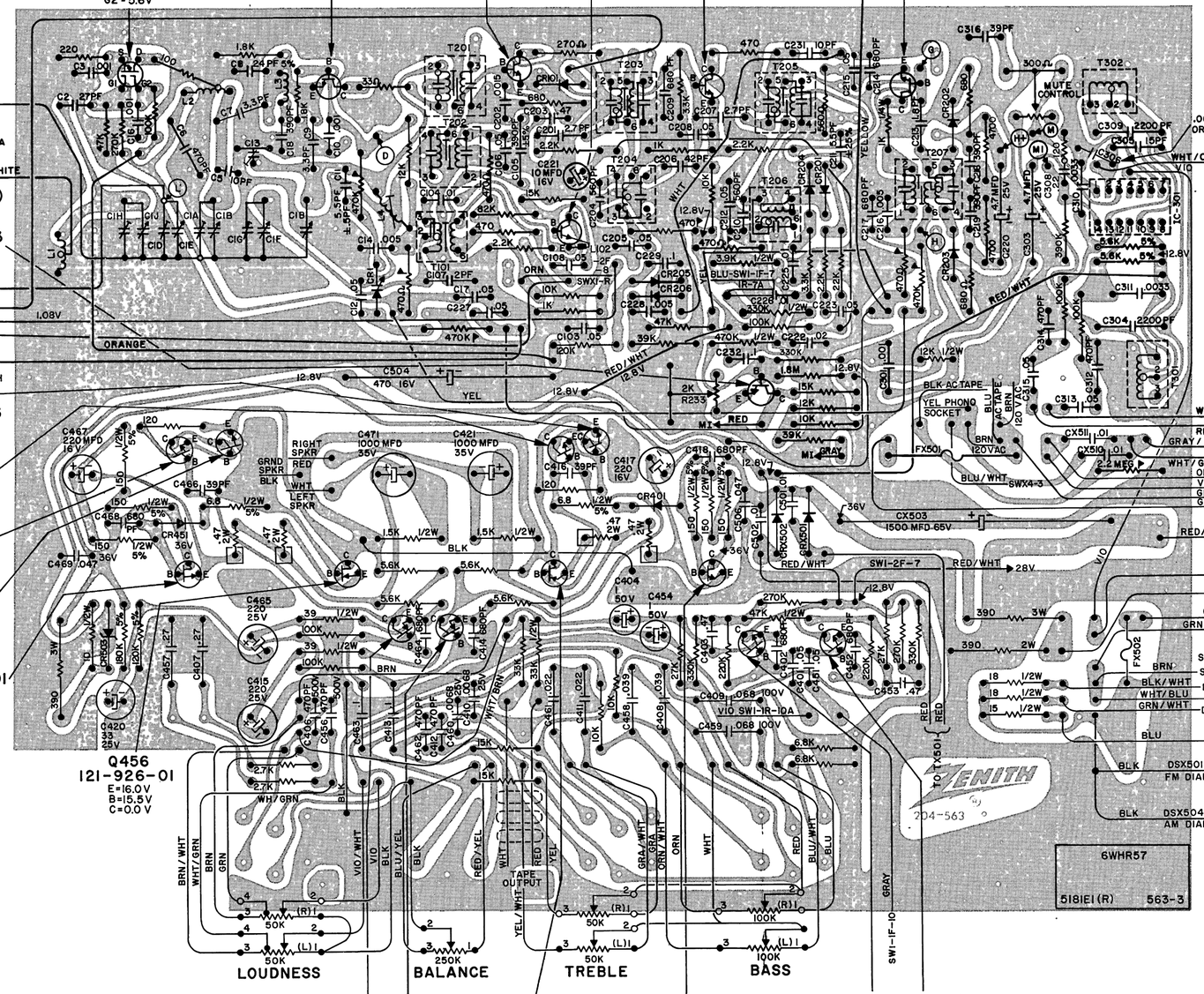
ITEM NO	PART NUMBER	DESCRIPTION
R451	63-6922-30	270K OHM 5% (ALT 63-7887 1/2W 10%)
R453	63-6922-28	220K OHM 5% (ALT 63-7883 1/2W 10%)
R454	63-6922-32	330K OHM 5% (ALT 63-7890 1/2W 10%)
R455	63-6922-08	27K OHM 5% (ALT 63-7845 1/2W 10%)
R456	63-6922-08	33K OHM 5% (ALT 63-7848 1/2W 10%)
R457	63-6921-82	2.7K OHM 5% (ALT 63-7803 1/2W 10%)
R459	63-6921-96	10K OHM 5% (ALT 63-7827 1/2W 10%)
R461	63-6921-82	6.8K OHM 5% (ALT 63-7820 1/2W 10%)
R463	63-6922-00	15K OHM 5% (ALT 63-7834 1/2W 10%)
R465	63-6921-90	5.6K OHM 5% (ALT 63-7817 1/2W 10%)
R466	63-1726	39 OHM
R467	63-6921-90	5.6K OHM 5% (ALT 63-7817 1/2W 10%)
*R468	63-9946-52	150 OHM 5% 1/2W (ALT 63-7749 1/2W 5%)
R469	63-9946-52	150 OHM ±5% 1/2W (ALT 63-7749 1/2W 5%)
R470	63-9946-52	150 OHM ±5% 1/2W (ALT 63-7749 1/2W 5%)
R471	63-4535	6.8 OHM ±5% 1/2W
*R472	63-6984	47 OHM 2W
*R473	63-6984	47 OHM 2W
R474	63-9922-20	100 OHM 5% (ALT 63-7869 1/2W 10%)
R477	63-9921-50	120 OHM 5% (ALT 63-7747 1/2W 10%)
R479	63-9946-76	1500 OHM ±5% (ALT 63-7793 1/2W 20%)
R480	63-1757	220 OHM 1/2W
*RX501	63-10430-98	350 OHM 3W
*RX502	63-9946-24	10 OHM 5% 1/2W (ALT 63-7701 1/2W 10%)
*RX505	63-10325-01	2.2 MEG OHM ±20%
*RX507	63-9946-28	16 OHM 5% 1/2W (ALT 63-7703 1/2W 10%)
*RX508	63-1712	18 OHM
*RX509	63-1712	18 OHM
L1	20-3664	FM ANTENNA COIL
L2	20-3665	FM RF COIL
L3	20-1631	TRAP COIL 10.7 MHz
L4	20-3591	FM OSCILLATOR COIL
L101	S-93292-01	AM ANTENNA ASSEMBLY
L102	149-311	FERRITE CORE SLEEVE
L103	IN T101	AM OSCILLATOR TRANS. PRI
L104	IN T101	AM OSCILLATOR TRANS. SEC
L201	IN T201	1ST IF TRANSFORMER 10.7 MHz PRI.
L202	IN T201	1ST IF TRANSFORMER 10.7 MHz SEC.
L203	IN T202	1ST IF AM 455 KHz PRI
L204	IN T202	1ST IF 455 KHz SEC.
L205	IN T203	2ND IF TRANSFORMER 10.7 MHz PRI.
L206	IN T203	2ND IF TRANSFORMER 10.7 MHz SEC.
L207	IN T204	2ND IF AM 455 KHz
L208	IN T205	3RD IF TRANSFORMER 10.7 MHz PRI
L209	IN T205	3RD IF TRANSFORMER 10.7 MHz SEC.
L210	IN T206	3RD IF AM 455 KHz PRI.
L211	IN T206	3RD IF AM 455 KHz SEC.
L212	IN T207	RATIO DETECTOR TRANS. 10.7 MHz PRI
L213	IN T207	RATIO DETECTOR TRANS. 10.7 MHz TERTIARY
L214	IN T207	RATIO DETECTOR TRANS. 10.7 MHz SEC.
T101	95-3271	AM OSCILLATOR TRANSFORMER
T201	95-2546	FM 1ST TRANSFORMER 10.7 MHz
T202	95-2541	AM 1ST IF AM 455 KHz
T203	95-2541	FM 2ND IF TRANSFORMER 10.7 MHz
T204	95-2542	AM 2ND IF AM 455 KHz
T205	95-2546	FM 3RD IF TRANSFORMER 10.7 MHz
T206	95-2689	AM 3RD IF AM 455 KHz
T207	95-2545	FM RATIO DETECTOR 10.7 MHz
T301	95-3248	INPUT COIL 19 KHz
T302	95-3023	DETECTOR COIL 38 KHz
*T501	95-3124-01	POWER TRANSFORMER
SW1	85-1441	BAND SWITCH
SW2	85-1437-01 OR	AFC SWITCH (SLIDE SP-DT) PREFERRED
SW3	85-1372-01 OR 85-1437-01 OR	ALTERNATE MATRIX SWITCH (SLIDE SP-DT) PREFER. ALTERNATE
*SW4	85-1448	DOUBLE POLE TONE SWITCH
J1	78-2137-01	STEREO HEADPHONE JACK
CR1	103-47 OR 103-189	AFC DIODE
CR101	103-142	SILICON DIODE
CR201	103-23-01	GERMANIUM DIODE
CR202	103-90	GERMANIUM DIODE
CR203	103-90	
CR204	103-23-01	GERMANIUM DIODE
CR205	103-23-01	GERMANIUM DIODE
CR206	103-23-01	GERMANIUM DIODE
CR401	103-222-01	SILICON DIODE
CR451	103-222-01	SILICON DIODE
*CR501	212-78	SILICON RECTIFIER
*CR502	212-78	SILICON RECTIFIER
*CR503	103-86	DIODE (ZENER)
I.C.-301	221-79-01 OR 221-79	MONOLITHIC MULTIPLER DEMODULATOR (SEE C306)
DS301	100-611	STEREO INDICATOR LIGHT
*DS501	100-604	FM DIAL LIGHT
*DS502	100-633	METER LIGHT
*DS503	100-633	POINTER LIGHT
*DS504	100-604	AM DIAL LIGHT
*DS505	100-633	PILOT LIGHT
*PC	204-563	PRINTED CIRCUIT BOARD
*FX501	135-117-47	.75 AMP SLO-BLO FUSE
*FX502	135-114-03	2 AMP REGULAR FUSE
M1	122-72	TUNING METER
		MECHANICAL CIRCUIT COMPONENTS
		5180E2

CHASSIS LEGEND 6WHR57

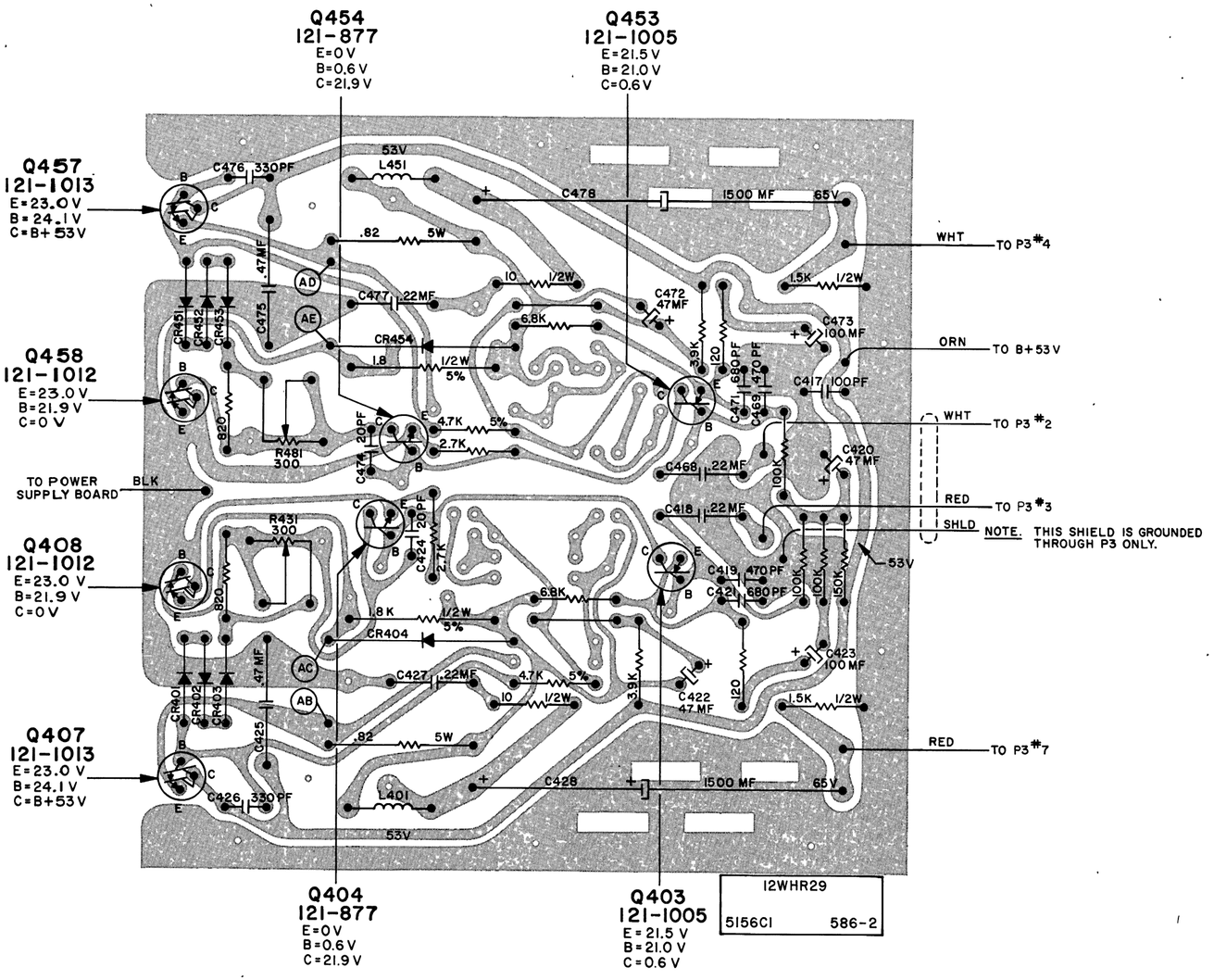
ITEM NO.	PART NUMBER	DESCRIPTION
C1A		F.M. DETECTOR TRIMMER
C1B		F.M. DETECTOR TUNING
C1C		F.M. OSCILLATOR TUNING
C1D		A.M. ANTENNA TRIMMER
C1E		A.M. ANTENNA TUNING
C1F	22-7134	A.M. OSCILLATOR TUNING
C1G		A.M. OSCILLATOR TRIMMER
C1H		F.M. ANTENNA TRIMMER
C1J		F.M. ANTENNA TUNING
C2	22-2396	27 PF DISC 500V
C3	22-2729	.001 MFD DISC 25V
C5	22-3679	10 PF DISC ±5% 500V
C6	22-5761	470 PF 1000V
C7	22-3541	3.3 PF GIMMICK ±5% 500V
C8	22-2515	24 PF DISC ±5% 500V
C9	22-5879	3.3 PF DISC ±.25 PF 25V
C10	22-2729	.001 MFD DISC 25V
C11	22-5878	5.5 PF DISC ±0.5 PF 500V
C12	22-3034	.05 MFD DISC 25V
C13	22-4855	1.7 TO 10 PF CERAMIC TRIMMER
C14	22-3060	.005 MFD DISC 25V
C16	22-2729	.001 MFD DISC 25V
C17	22-3034	.05 MFD DISC 25V
C18	22-0177	390 PF DISC 500V
C103	22-3034	.05 MFD DISC 25V
C104	22-3393	.01 MFD DISC 25V
C105	22-6972	390 PF ±5% POLYSTYRENE 125V
C106	22-3034	.05 MFD DISC 25V
C107	22-4819	2 PF N4700 ±.25 PF 500V
C108	22-3034	.05 MFD DISC 25V
C201	22-3310	2.7 PF GIMMICK ±10% 500V
C202	22-5483	.0015 MFD DISC 500V
C203	22-5487	.47 MFD DISC 3V
C204	22-5481	560 PF DISC 500V
C205	22-3034	.05 MFD DISC 25V
C206	22-3791	470 PF DISC ±5% 500V
C207	22-3310	2.7 PF GIMMICK ±10% 500V
C208	22-3034	.05 MFD DISC 25V
C209	22-5482	680 PF DISC 500V
C210	22-5481	560 PF DISC 500V
C211	22-3770	5.5 PF DISC ±.25 PF 500V
C212	22-3034	.05 MFD DISC 25V
C213	22-2428	1.8 PF GIMMICK ±10% 500V
C214	22-5482	680 PF DISC 500V
C215	22-3034	.05 MFD DISC 25V
C216	22-3060	.005 MFD DISC 25V
C217	22-5482	680 PF DISC 500V
C218	22-3177	390 PF DISC 500V
C219	22-3177	390 PF DISC 500V
C220	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C221	22-7151-04	10 MFD ELECTROLYTIC 16V
C222	22-5989	.02 MFD DISC 25V
C223	22-3034	.05 MFD DISC 25V
C225	22-7512	.01 MFD DISC 25V
C226	22-3393	.01 MFD DISC 25V
C227	22-3034	.05 MFD DISC 25V
C228	22-3080	.005 MFD DISC 25V
C229	22-3652	1 MFD DISC 10V
C231	22-3675	10 PF DISC ±5% 500V
C232	22-3652	1 MFD DISC 10V
C301	22-2729	.001 MFD DISC 25V
C303	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C304	22-5782	2200 PF POLYSTYRENE ±5% 500V
C305	22-3728	15 PF DISC 500V
C306	22-13	.0033 MFD DISC 500V (TO BE USED WITH 221-79-01)
	OR 22-6581	.0039 MFD DISC 500V (TO BE USED WITH 221 79)
C308	22-3527	.22 MFD DISC 12V
C309	22-5782	2200 PF POLYSTYRENE ±5% 500V
C310	22-13	.0033 MFD DISC 500V
C311	22-13	.0033 MFD DISC 500V
C312	22-16	470 PF DISC 500V
C313	22-3034	.05 MFD DISC 25V
C314	22-16	470 PF DISC 500V
C315	22-3034	.05 MFD DISC 25V
C316	22-3381	39 PF ±5% DISC 500V
C401	22-3034	.05 MFD DISC 25V
C402	22-2939	680 PF DISC 500V
C403	22-5487	.47 MFD DISC 3V
C404	22-7153	1 MFD ELECTROLYTIC 50V
C406	22-16	470 PF DISC 500V
C407	22-5964	.27 MFD MYLAR 50V
C408	22-7202	.039 MFD MYLAR 50V
C409	22-5722	.068 MFD MYLAR 100V
C410	22-3415	.0068 MFD DISC 25V
C411	22-6814	.022 MFD MYLAR 20% 100V
C412	22-16	470 PF DISC 500V
C414	22-6905	1 MFD MYLAR 10% 50V
C415	22-2939	680 PF DISC 500V
C416	22-7152-09	220 MFD ELECTROLYTIC 25V
C418	22-3381	39 PF DISC ±5% 500V
C417	22-7151-09	220 MFD ELECTROLYTIC 16V
C418	22-2939	680 PF DISC 500V
C420	22-7152-06	33 MFD ELECTROLYTIC 25V
C421	22-7154-12	1000 MFD ELECTROLYTIC 35V
C451	22-3034	.05 MFD DISC 25V
C452	22-2939	680 PF DISC 500V
C453	22-5487	.47 MFD DISC 3V
C454	22-7153	1 MFD ELECTROLYTIC 50V
C456	22-16	470 PF DISC 500V
C457	22-5964	.27 MFD MYLAR 50V
C458	22-7202	.039 MFD MYLAR 50V
C459	22-5722	.068 MFD MYLAR 100V
C460	22-3415	.0068 MFD DISC 25V
C461	22-6814	.022 MFD MYLAR 20% 100V
C462	22-16	470 PF DISC 25V
C463	22-6905	1 MFD MYLAR 10% 50V
C464	22-2939	680 PF DISC 500V
C465	22-7152-09	220 MFD ELECTROLYTIC 25V
C466	22-3381	39 PF DISC ±5% 500V
C467	22-7151-09	220 MFD ELECTROLYTIC 16V
C468	22-2939	680 PF DISC 500V
C469	22-7326	.047 MYLAR ±20% 100V
C471	22-7154-12	1000 MFD ELECTROLYTIC 35V
C501 ●	22-4617	.01 MFD DISC 500V
C502 ●	22-4617	.01 MFD DISC 500V
C503 ●	22-7512	1500 MFD ELECTROLYTIC 65V
C504 ●	22-7141-13	470 MFD ELECTROLYTIC 16V
C505 ●	22-7330	.047 MFD MYLAR ±20% 100V
CX510 ●	22-6005	.01 MFD DISC 150VAC
CX511 ●	22-6005	.01 MFD DISC 150VAC
R1	63-9921-56	220 OHM 5% (ALT 63-10183-56 1/4W 10%)
R2	63-9922-20	100K OHM 5% (ALT 63-10184-20 1/4W 10%)
R3	63-9921-64	470 OHM 5% (ALT 63-7772 1/2W 20%)
R4	63-9921-78	1.8K OHM 5% (ALT 63-7796 1/2W 10%)
R5	63-4196	1.8K OHM 1/2W
R6	63-9921-88	12K OHM 5% (ALT 63-7831 1/2W 10%)
R7	63-9922-36	470K OHM 5% (ALT 63-7898 1/2W 20%)
R8	63-4122	33 OHM 1/2W
R9	63-9922-36	470K OHM 5% (ALT 63-7898 1/2W 20%)
R10	63-4142	100 OHM 1/4W 5%
R11	63-9922-30	270K OHM 5% (ALT 63-10184-30 1/4W 10%)
R12	63-9922-12	47K OHM 5% (ALT 63-10184-12 1/4W 10%)
R101	63-9922-00	15K OHM 5% (ALT 63-7834 1/2W 10%)
R102	63-9922-18	82K OHM 5% (ALT 63-7866 1/2W 10%)
R103	63-9921-96	10K OHM 5% (ALT 63-7827 1/2W 10%)
R104	63-9921-72	1K OHM 5% (ALT 63-7785 1/2W 10%)
R105	63-9921-80	2.2K OHM 5% (ALT 63-7799 1/2W 10%)
R106	63-1771	470 OHM 1/2W
R107	63-9921-64	470 OHM 5% (ALT 63-7771 1/2W 10%)
R201	63-9921-68	680 OHM 5% (ALT 63-7778 1/2W 10%)
R202	63-9921-58	270 OHM 5% (ALT 63-7761 1/2W 10%)
R203	63-9921-64	470 OHM 5% (ALT 63-7772 1/2W 20%)
R204	63-9921-84	3.3K OHM 5% (ALT 63-7806 1/2W 10%)
R205	63-9921-96	10K OHM 5% (ALT 63-7827 1/2W 10%)
R206	63-9921-64	470 OHM 5% (ALT 63-7771 1/2W 10%)
R207	63-9921-72	1K OHM 5% (ALT 63-7785 1/2W 10%)
R208	63-1799	2.2K OHM 1/2W
R209	63-9921-64	470 OHM 5% (ALT 63-7772 1/2W 20%)
R210	63-9921-72	1K OHM 5% (ALT 63-10183-72 1/4W 10%)
R211	63-1775	560 OHM 1/4W
R212	63-9921-64	470 OHM 5% (ALT 63-7772 1/2W 20%)
R213	63-9921-68	680 OHM 5% (ALT 63-7778 1/2W 10%)
R214	63-9921-68	680 OHM 5% (ALT 63-7778 1/2W 10%)
R215	63-9921-88	4700 OHM 5% (ALT 63-7813 1/2W 10%)
R216	63-9921-88	4700 OHM 5% (ALT 63-7813 1/2W 10%)
R217	63-9921-80	2.2K OHM 5% (ALT 63-7799 1/2W 10%)
R218	63-9922-20	100K OHM 5% (ALT 63-7866 1/2W 10%)
R219	63-9922-04	22K OHM 5% (ALT 63-7841 1/2W 10%)
R220	63-9921-84	3.3K OHM 5% (ALT 63-7806 1/2W 10%)
R221	63-1810	3.9K OHM 1/2W
R223	63-1890	330K OHM 1/2W
R224	63-9921-64	470K OHM 5% (ALT 63-7772 1/2W 20%)
R225	63-9921-80	2.2K OHM 5% (ALT 63-7799 1/2W 10%)
R227	63-9922-12	47K OHM 5% (ALT 63-7855 1/2W 10%)
R228	63-9922-10	39K OHM 5% (ALT 63-7852 1/2W 10%)
R229	63-9922-22	120K OHM 5% (ALT 63-7873 1/2W 10%)
R230	63-1897	470K OHM 1/2W
R231	63-9924-50	1.8 MEG OHM 10% (ALT 63-7922 1/2W 10%)
R232	63-9922-32	330K OHM 5% (ALT 63-7890 1/2W 10%)
R233	63-6250	2K OHM METER CONTROL
R234	63-9922-00	15K OHM 5% (ALT 63-7834 1/2W 10%)
R235	63-9921-88	12K OHM 5% (ALT 63-7831 1/2W 10%)
R236	63-9921-96	10K OHM 5% (ALT 63-7827 1/2W 10%)
R237	63-9922-10	39K OHM 5% (ALT 63-7852 1/2W 10%)
R301	63-1831	12K OHM 1/2W 10%
R302	63-6697-26	500 OHM MUTE CONTROL (ALT 63-6261)
R303	63-6222-34	390K OHM 5% (ALT 63-7894 1/2W 10%)
R304	63-1458	390 OHM 2W
RX401 ●	63-10040-02	390 OHM 3W
R306	63-9921-90	5.6K OHM ±5% (ALT 63-7816 1/2W 5%)
R307	63-9921-90	5.6K OHM ±5% (ALT 63-7816 1/2W 5%)
R308	63-9922-20	100K OHM 5% (ALT 63-7866 1/2W 10%)
R309	63-9922-20	100K OHM 5% (ALT 63-7866 1/2W 10%)
R310	63-4147	120 OHM 10% 1/4W
R401	63-9922-30	270K OHM 5% (ALT 63-7887 1/2W 10%)
R402	63-1855	47K OHM
R403	63-9922-28	220K OHM 5% (ALT 63-7883 1/2W 10%)
R404	63-9922-32	330K OHM 5% (ALT 63-7890 1/2W 10%)
R405	63-9922-06	27K OHM 5% (ALT 63-7845 1/2W 10%)
R406	63-1848	33K OHM
R407	63-9921-82	2.7K OHM 5% (ALT 63-7803 1/2W 10%)
R408R	63-10189-01	50K DUAL LOUDNESS CONTROL (ALT 63-10189-03)
R408L		
R409	63-9921-96	10K OHM 5% (ALT 63-7827 1/2W 10%)
R410R	63-8982-01	100K DUAL BASS CONTROL (ALT 63-8982-03)
R410L		
R411	63-9921-92	6.8K OHM 5% (ALT 63-7820 1/2W 10%)
R412R	63-8983-01	50K DUAL TREBLE CONTROL (ALT 63-8983-03)
R412L		
R413	63-9922-00	15K OHM 5% (ALT 63-7834 1/2W 10%)
R414	63-8981-01	250K BALANCE CONTROL (ALT 63-8981-03)
R415	63-9921-90	5.6K OHM 5% (ALT 63-7817 1/2W 10%)
R416	63-1726	39 OHM
R417	63-9922-90	5.6K OHM 5% (ALT 63-7817 1/2W 10%)
RX418 ●	63-9946-52	150 OHM ±5% 1/2W (ALT 63-7749 1/2W 5%)
R419	63-9946-52	150 OHM ±5% 1/2W (ALT 63-7749 1/2W 5%)
R420	63-9946-52	150 OHM ±5% 1/2W (ALT 63-7749 1/2W 5%)
R421	63-9946-20	6.8 OHM ±5% 1/2W (ALT 63-7968 1/2W 5%)
RX422 ●	63-9784	47 OHM 2W
RX423 ●	63-9784	47 OHM 2W
R424	63-9922-20	100K OHM 5% (ALT 63-7866 1/2W 10%)
R425	63-9922-26	180K OHM ±5% (ALT 63-7879 1/2W 5%)
R426	63-9922-22	120K OHM ±5% (ALT 63-7872 1/2W 5%)
R427	63-9921-60	120 OHM 5% (ALT 63-7747 1/2W 10%)
R428	63-9946-76	1500 OHM ±5% (ALT 63-7793 1/2W 20%)
R430	63-1757	220 OHM
R431		
R432	63-10135	11 OHM 5W
R451	63-9922-30	270K OHM 5% (ALT 63-7887 1/2W 10%)
R453	63-9922-22	220K OHM 5% (ALT 63-7883 1/2W 10%)
R454	63-9922-32	330K OHM 5% (ALT 63-7890 1/2W 10%)
R455	63-9922-06	27K OHM 5% (ALT 63-7845 1/2W 10%)
R456	63-9922-08	33K OHM 5% (ALT 63-7848 1/2W 10%)
R457	63-9921-82	2.7K OHM 5% (ALT 63-7803 1/2W 10%)
R459	63-9921-96	10K OHM 5% (ALT 63-7827 1/2W 10%)
R461	63-9921-92	6.8K OHM 5% (ALT 63-7820 1/2W 10%)
R463	63-9922-00	15K OHM 5% (ALT 63-7834 1/2W 10%)
R465	63-9921-90	5.6K OHM 5% (ALT 63-7817 1/2W 10%)
R466	63-1726	39 OHM
R467	63-9921-90	5.6K OHM 5% (ALT 63-7817 1/2W 10%)
RX468 ●	63-9946-52	150 OHM ±5% 1/2W (ALT 63-7749 1/2W 5%)
R469	63-9946-52	150 OHM ±5% 1/2W (ALT 63-7749 1/2W 5%)
R470	63-9946-52	150 OHM ±5% 1/2W (ALT 63-7749 1/2W 5%)
R471	63-4535	6.8 OHM ±5% 1/2W
RX472 ●	63-9784	47 OHM 2W
RX473 ●	63-9784	47 OHM 2W
R474	63-9922-20	100K OHM 5% (ALT 63-7866 1/2W 10%)
R477	63-9921-60	120 OHM 5% (ALT 63-7747 1/2W 10%)
R478	63-9946-76	1500 OHM 5% (ALT 63-7793 1/2W 20%)
R480	63-1757	220 OHM 1/2W
R481		
RX501 ●	63-10430-86	390 OHM 3W
RX502 ●	63-9946-24	10 OHM ±5% 1/2W (ALT 63-7701 1/2W 10%)
RX506 ●	63-10500-01	1.1 MEG OHM ±5%
RX507 ●	63-9946-28	15 OHM ±5% 1/2W (ALT 63-7708 1/2W 10%)
RX508 ●	63-1712	15 OHM
RX509 ●	63-1712	15 OHM
L1	20-3664	FM ANTENNA COIL
L2	20-3665	FM RF COIL
L3	20-1631	TRAP COIL 10.7 MHz
L4	20-2597	FM OSCILLATOR COIL
L101	S-93292-01	AM ANTENNA ASSEMBLY
L102	149-311	FERRITE CORE SLEEVE
L103	IN T101	AM OSCILLATOR TRANS. PRI
L104	IN T101	AM OSCILLATOR TRANS. SEC.
L201	IN T201	1ST IF TRANS. 10.7 MHz PRI
L202	IN T201	1ST IF TRANS. 10.7 MHz SEC.
L203	IN T202	1ST IF AM 455 KHz PRI
L204	IN T202	1ST IF 455 KHz SEC
L205	IN T203	2ND IN TRANS. 10.7 MHz PRI
L206	IN T203	2ND IN TRANS. 10.7 MHz SEC.
L207	IN T204	2ND IF AM 455 KHz
L208	IN T205	3RD IF TRANS. 10.7 MHz PRI
L209	IN T205	3RD IF TRANS. 10.7 MHz SEC.
L210	IN T206	3RD IF AM 455 KHz PRI
L211	IN T206	3RD IF AM 455 KHz SEC
L212	IN T207	RATIO DETECTOR TRANS. 10.7 MHz PRI.
L213	IN T207	RATIO DETECTOR TRANS. 10.7 MHz TERTIARY
L214	IN T207	RATIO DETECTOR TRANS. 107 MHz SEC.
T101	95-3271	AM OSCILLATOR TRANSFORMER
T201	95-2546	FM 1ST TRANSFORMER 10.7 MHz
T202	95-2541	AM 1ST IF AM 455 KHz
T203	95-2547	FM 2ND IF TRANSFORMER 10.7 MHz
T204	95-2542	AM 2ND IF AM 455 KHz
T205	95-2548	FM 3RD IF TRANSFORMER 10.7 MHz
T206	95-2689	AM 3RD IF AM 455 KHz
T207	95-2545	FM RATIO DETECTOR 10.7 MHz
T301	95-3408	INPUT COIL 19 KHz
T302	95-3023	DETECTOR COIL 38 KHz
TX501 ●	95-3174-01	POWER TRANSFORMER
SW1	85-1442	BAND SWITCH
SW2	85-1437-01	AFC SWITCH (SLIDE SP-DT) PREFERRED
	OR 85-1372-01	ALTERNATE
SW3	85-1437-01	MATRIX SWITCH (SLIDE SP-DT) PREFER.
	OR 85-1372-01	ALTERNATE
SW4 ●	85-1466	PUSH-PUSH POWER SWITCH
J1	78-2137-01	STEREO HEADPHONE JACK
CR1	103-47	AFC DIODE
	OR 103-189	
CR101	103-142-01	SILICON DIODE
CR201	103-23-01	GERMANIUM DIODE
CR202	103-90	GERMANIUM DIODE (MATCHED PAIR)
CR203	103-90	
CR204	103-23-01	GERMANIUM DIODE
CR205	103-23-01	GERMANIUM DIODE
CR206	103-23-01	GERMANIUM DIODE
CR401	103-222-01	SILICON DIODE
CR451	103-222-01	SILICON DIODE
CR501 ●	212-76	SILICON RECTIFIER
CR502 ●	212-76	SILICON RECTIFIER
CR503 ●	103-36	DIODE (ZENER)
IC-301	221-79-01	MONOLITHIC MULTIPLEX
	OR 221-79	DEMODULATOR (SEE C306)
DS301	100-611	STEREO INDICATOR LIGHT
DS501 ●	100-604	FM DIAL LIGHT
DS502 ●	100-605	METER LIGHT
DS503 ●	100-603	POINTER LIGHT
DS504 ●	100-604	AM DIAL LIGHT
DS505 ●	100-603	PILOT LIGHT
PC ●	204-563	PRINTED CIRCUIT BOARD
FX501 ●	136-117-17	.75 AMP SLO-BLO FUSE
FX502 ●	136-114-20	2 AMP REGULAR FUSE
M1	122-72	TUNING METER

● CRITICAL CIRCUIT COMPONENT

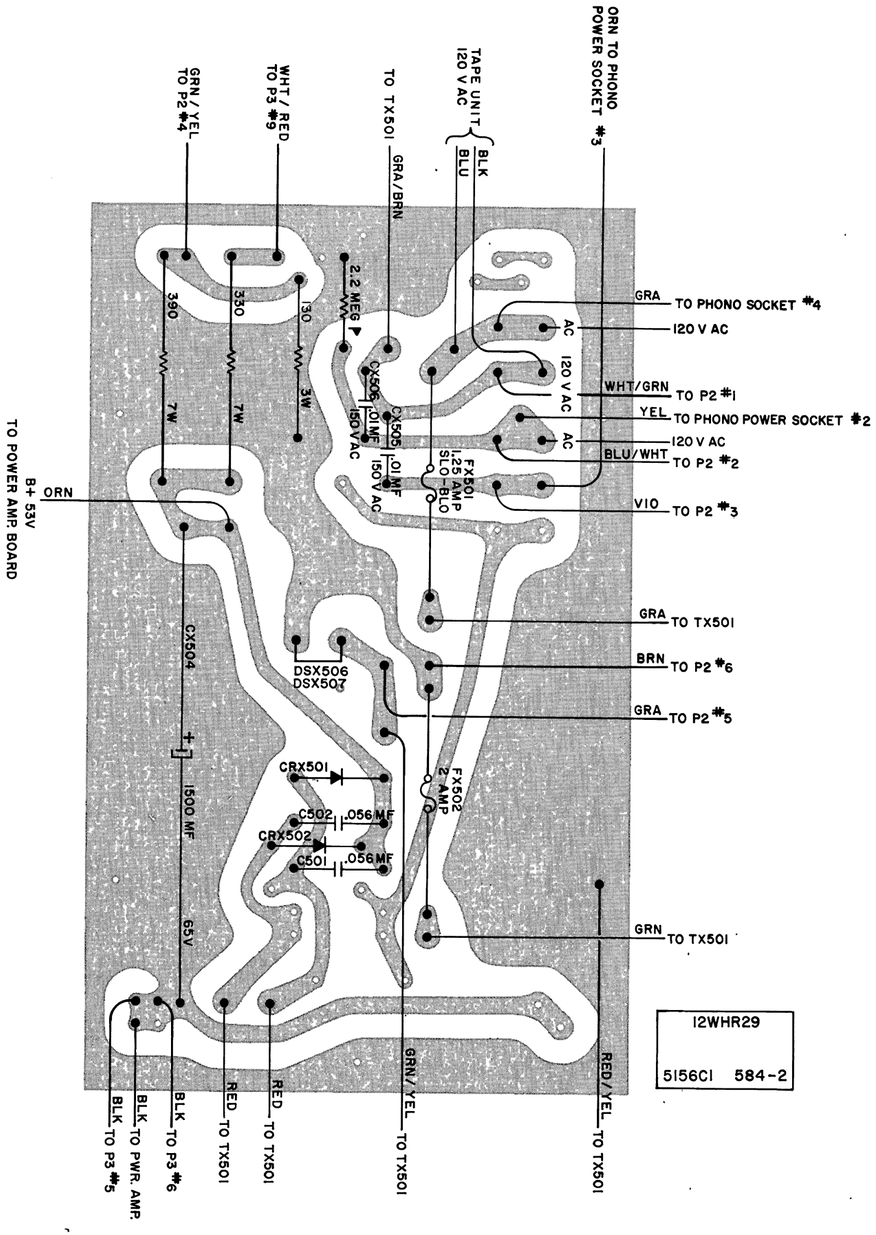
5181E2



CHASSIS 6WHR57 – CHASSIS WIRING AND COMPONENTS VIEWED FROM FOIL SIDE



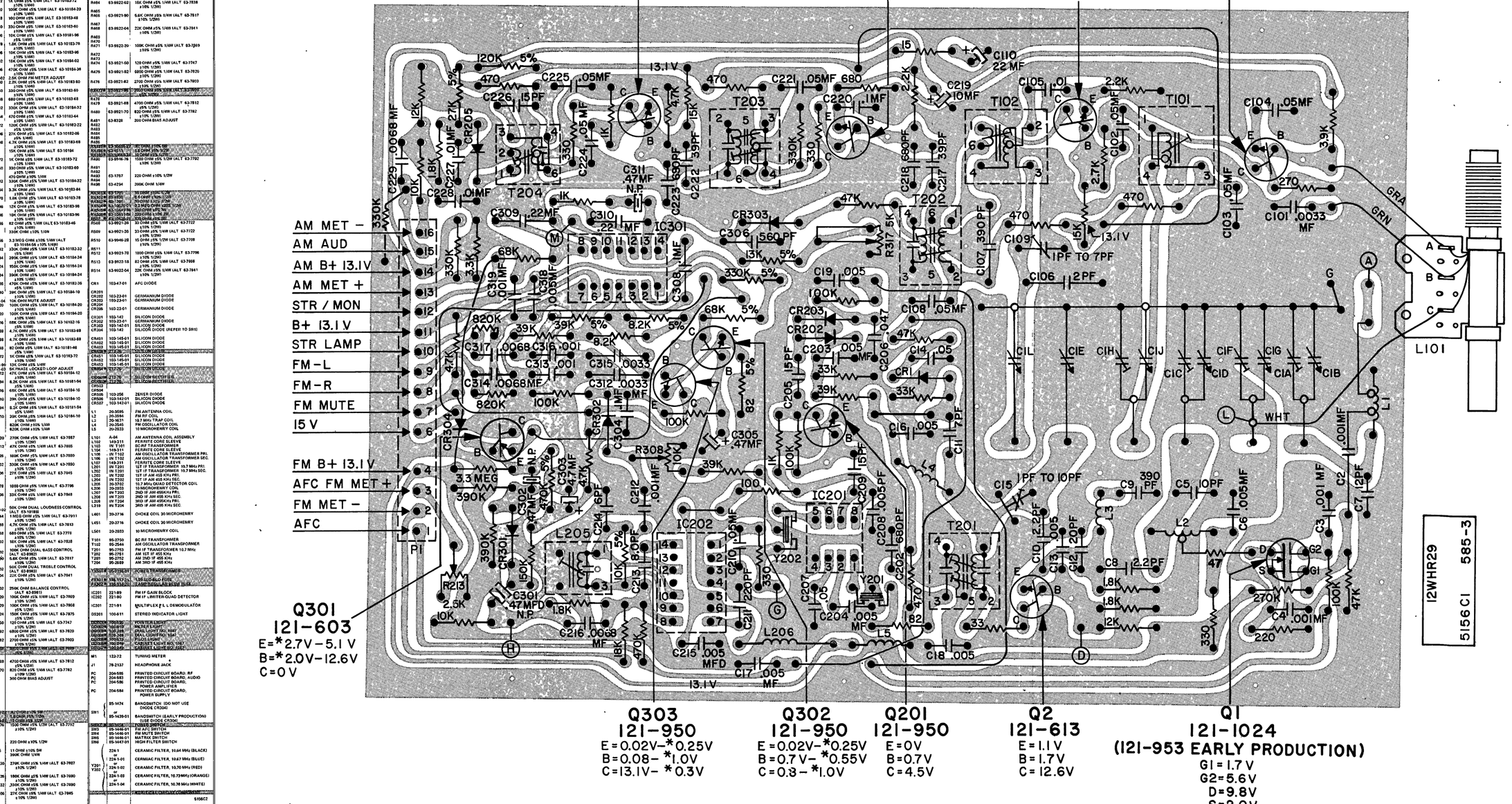
CHASSIS 12WHR29 – CHASSIS WIRING AND COMPONENTS
VIEWED FROM FOIL SIDE – POWER AMPLIFIER



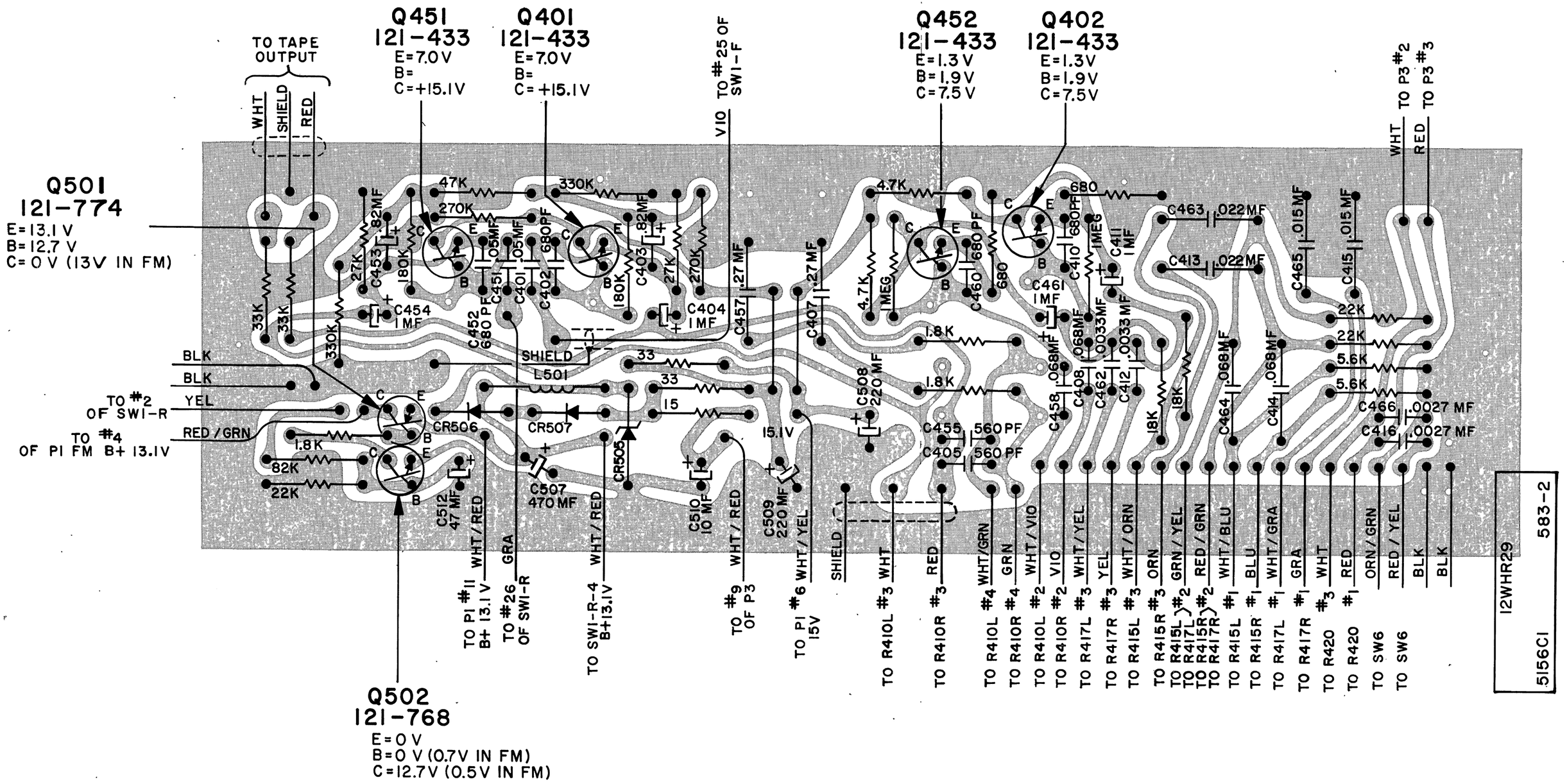
CHASSIS 12WHR29 – CHASSIS WIRING AND COMPONENTS
VIEWED FROM FOIL SIDE – POWER SUPPLY

CHASSIS LEGEND 12WHR29

ITEM NO.	PART NUMBER	DESCRIPTION
C1A		FM ANTENNA TRIMMER
C1B		FM ANTENNA TUNING
C1C		FM RF TRIMMER
C1D		FM RF TUNING
C1E	22-6245-01	FM OSCILLATOR TUNING
C1F		AM ANTENNA TRIMMER
C1G		AM ANTENNA TUNING
C1H		AM RF TRIMMER
C1J		AM RF TUNING
C1L		AM OSCILLATOR TUNING
C2	22-2729	.001 MFD DISC 25V
C3	22-2729	.001 MFD DISC 25V
C4	22-2729	.001 MFD DISC 25V
C5	22-3675	10 PF DISC ±5% 500V
C6	22-3080	.005 MFD DISC 25V
C7	22-2035	12 PF DISC ±5% 500V
C8	22-2468	2.2 PF CERAMIC ±5%
C9	22-3177	390 PF DISC 500V
C10	22-2468	2.2 PF CERAMIC ±5% 500V
C11	22-5044	2.2 PF DISC ±5% 500V
C12	22-3080	.005 MFD DISC 25V
C14	22-3534	.05 MFD DISC 25V
C15	22-4855	1.7 TO 10 PF CERAMIC TRIMMER
C16	22-3080	.005 MFD DISC 25V
C17	22-3080	.005 MFD DISC 25V
C18	22-3080	.005 MFD DISC 25V
C19	22-3080	.005 MFD DISC 25V
C101	22-13	.0033 MFD DISC 500V
C102	22-3034	.05 MFD DISC 25V
C103	22-3034	.05 MFD DISC 25V
C104	22-3034	.05 MFD DISC 25V
C105	22-3380	.01 MFD DISC 25V
C106	22-4819	2 PF ±0.25 PF 6-300 TUB. 500V
C107	22-6972	390 PF ±5% POLYSTYRENE TUB. 125V
C108	22-3034	.05 MFD DISC 25V
C109	22-7001	1 PF TO 7 PF OSCILLATOR TRIMMER
C110	22-7151-05	22 MFD ELECTROLYTIC 16V
C201		
C202	22-5482	680 PF DISC 500V
C203	22-3080	.005 MFD DISC 25V
C204	22-3080	.005 MFD DISC 25V
C205	22-3642	15 PF DISC ±5% 500V
C206	22-5044	2.2 PF DISC ±5% 500V
C207	22-3534	.05 MFD DISC 25V
C208	22-3080	.005 MFD DISC 25V
C209	22-3642	15 PF DISC ±5% 500V
C210	22-3034	.05 MFD DISC
C211	22-3703	330 PF ±10% DISC 500V
C212	22-2729	.001 MFD DISC 25V
C213	22-5605	8 PF ±25 DISC 500V
C214	22-2381	6 PF ±5% DISC 500V
C215	22-3080	.005 MFD DISC 25V
C216	22-3410	.0068 DISC 25V
C217	22-2381	39 PF DISC ±5% 500V
C218	22-2935	680 PF DISC 500V
C219	22-7151-04	10 MFD ELECTROLYTIC 16V
C220	22-3652	1 MFD DISC 10V
C221	22-3034	.05 MFD DISC 25V
C222	22-2381	39 PF DISC ±5% 500V
C223	22-2935	680 PF DISC 500V
C224	22-3034	.05 MFD DISC 25V
C225	22-3034	.05 MFD DISC 25V
C226	22-3642	15 PF DISC ±5% 500V
C227	22-3393	.01 MFD DISC 25V
C228	22-3393	.01 MFD DISC 25V
C229	22-4285	.0068 MFD DISC ±20% 25V
C301	22-7406	.47 MFD SP ELECTROLYTIC 35V
C302	22-7406	.47 MFD SP ELECTROLYTIC 35V
C303	22-7152-03	4.7 MFD ELECTROLYTIC 25V
C304	22-3652	1 MFD DISC 10V
C305	22-7153-25	.47 MFD ELECTROLYTIC 50V
C306	22-7493	560 PF ±5% MATCHED DISC 500V
C307		
C308	22-6907	1 MFD MYLAR 50V
C309	22-3527	22 MFD DISC 12V
C310	22-3527	22 MFD DISC 12V
C311	22-7001	47 MFD ELECTROLYTIC 35V
C312	22-3080	.0033 MFD DISC 1000V
C313	22-2729	.001 MFD DISC 25V
C314	22-4285	.0068 MFD DISC ±20% 25V
C315	22-6901	.0033 MFD DISC 1000V
C316	22-2729	.001 MFD DISC 25V
C317	22-4285	.0068 MFD DISC ±20% 25V
C318	22-7152-08	100 MFD ELECTROLYTIC 25V
C319	22-2729	.001 MFD DISC 25V
C401	22-3034	.05 MFD DISC 25V
C402	22-5939	680 PF DISC 500V
C403	22-7390-06	.22 MFD ELECTROLYTIC 50V
C404	22-7163	1 MFD ELECTROLYTIC 50V
C405	22-3362	560 PF DISC 500V
C406		
C407	22-6964	.22 MFD MYLAR 50V
C408	22-6722	.068 MFD MYLAR 100V
C409		
C410	22-2939	680 PF DISC 500V
C411	22-7153	1 MFD ELECTROLYTIC 50V
C412	22-13	.0033 MFD DISC 500V
C413	22-5632	.022 MFD MYLAR 200V (ALT 22-7179)
C414	22-6722	.068 MFD MYLAR 100V
C415	22-6130	.015 MFD MYLAR 50V
C416	22-7191	.0027 MFD DISC 500V
C417	22-5082	.22 MFD MYLAR 50V
C418	22-6964	.22 MFD MYLAR 50V
C419	22-16	.470 PF DISC 500V
C420	22-1154-07	47 MFD ELECTROLYTIC 35V
C421	22-2939	680 PF DISC 500V
C422	22-7154-07	47 MFD ELECTROLYTIC 35V
C423	22-7154-08	100 MFD ELECTROLYTIC 25V
C424	22-3751	20 PF DISC ±5% 500V
C425	22-7496	.47 MFD MYLAR 100V
C426	22-2935	680 PF DISC 500V
C427	22-7152	1 MFD ELECTROLYTIC 50V
C428	22-7132	1000 MFD ELECTROLYTIC 65V
C430	22-2362	560 PF DISC 500V
C451	22-3034	.05 MFD DISC 25V
C452	22-2939	680 PF DISC 500V
C453	22-7385-06	22 MFD ELECTROLYTIC 50V
C454	22-7153	1 MFD ELECTROLYTIC 50V
C455	22-3362	560 PF DISC 500V
C456		
C457	22-6964	.22 MFD MYLAR 50V
C458	22-5722	.068 MFD MYLAR 100V
C459		
C460	22-2939	680 PF DISC 500V
C461	22-7152	1 MFD ELECTROLYTIC 50V
C462	22-13	.0033 MFD DISC 500V
C463	22-5632	.022 MFD MYLAR 200V (ALT. 22-7179)
C464	22-6722	.068 MFD MYLAR 100V
C465	22-6130	.015 MFD MYLAR 50V
C466	22-7191	.0027 MFD DISC 500V
C467		
C468	22-6048	.22 MFD MYLAR 50V
C469	22-16	.470 PF DISC 500V
C470		
C471	22-2939	680 PF DISC 500V
C472	22-7154-07	47 MFD ELECTROLYTIC 35V
C473	22-7154-08	100 MFD ELECTROLYTIC 25V
C474	22-3751	20 PF DISC ±5% 500V
C475	22-7496	.47 MFD MYLAR 100V
C476	22-3256	330 PF DISC 500V
C477	22-6839	.22 MFD MYLAR 100V
C478	22-7133	1000 MFD ELECTROLYTIC 65V
C480	22-3362	560 PF DISC 500V
C501	22-4285	.0068 MFD DISC ±20% 25V
C502	22-4285	.0068 MFD DISC ±20% 25V
C503	22-7163	1 MFD ELECTROLYTIC 50V
C504	22-7173	.1 MFD ELECTROLYTIC 25V
C505	22-3080	.01 MFD DISC 25V
C506	22-6048	.22 MFD MYLAR 50V
C507	22-7151-15	470 MFD ELECTROLYTIC 16V
C508	22-7152-09	220 MFD ELECTROLYTIC 25V
C509	22-7152-09	220 MFD ELECTROLYTIC 25V
C510	22-7152-04	10 MFD ELECTROLYTIC 25V
C511		
C512	22-7149-07	47 MFD ELECTROLYTIC 6.3V
R1		
R2	63-9922-20	100K OHM 5% 1/4W (ALT 63-10184-20 ±10% 1/4W)
R3	63-9922-12	47K OHM ±5% 1/4W (ALT 63-10184-12 ±10% 1/4W)
R4	63-9921-56	220 OHM ±5% 1/4W (ALT 63-10182-56 ±10% 1/4W)
R5	63-4129	47 OHM 10% 1/4W
R6	63-9922-30	270K OHM ±5% 1/4W (ALT 63-10184-30 ±10% 1/4W)
R7	63-9921-40	330 OHM ±5% 1/4W (ALT 63-10183-40 ±10% 1/4W)
R8	63-9921-78	1.8K OHM ±5% 1/4W (ALT 63-10183-78 ±10% 1/4W)
R9	63-9922-06	22K OHM ±5% 1/4W (ALT 63-10184-06 ±10% 1/4W)
R10		
R11	63-4295	47K OHM ±10% 1/4W
R12	63-9921-36	22 OHM ±5% 1/4W (ALT 63-10183-36 ±10% 1/4W)
R13	63-9921-78	1.8K OHM ±5% 1/4W (ALT 63-10183-78 ±10% 1/4W)
R14	63-9921-68	12K OHM ±5% 1/4W (ALT 63-10183-68 ±10% 1/4W)
R15	63-9921-64	470 OHM ±5% 1/4W (ALT 63-10183-64 ±10% 1/4W)
R101	63-6922	15K OHM ±5% 1/4W (ALT 63-10184 ±10% 1/4W)
R102	63-9921-82	2.7K OHM ±5% 1/4W (ALT 63-10183-82 ±10% 1/4W)
R103	63-9921-80	2.2K OHM ±5% 1/4W (ALT 63-10183-80 ±10% 1/4W)
R104	63-9921-64	470 OHM ±5% 1/4W (ALT 63-10183-64 ±10% 1/4W)
R105	63-9921-58	270 OHM ±5% 1/4W (ALT 63-10182-58 ±10% 1/4W)
R106	63-9921-98	3.9K OHM ±5% 1/4W (ALT 63-10182-98 ±10% 1/4W)
R107	63-9921-64	470 OHM ±5% 1/4W (ALT 63-10183-64 ±10% 1/4W)
R108	63-9921-28	15 OHM ±5% 1/4W (ALT 63-10182-28 ±10% 1/4W)
R201	63-9922-10	39K OHM ±5% 1/4W (ALT 63-10184-10 ±10% 1/4W)
R202	63-9922-04	33K OHM ±5% 1/4W (ALT 63-10184-04 ±10% 1/4W)
R203	63-9922-20	100K OHM ±5% 1/4W (ALT 63-10184-20 ±10% 1/4W)
R204	63-9921-72	1K OHM ±5% 1/4W (ALT 63-10183-72 ±10% 1/4W)
R205	63-9922-20	100K OHM ±5% 1/4W (ALT 63-10184-20 ±10% 1/4W)
R206	63-9921-48	100 OHM ±5% 1/4W (ALT 63-10183-48 ±10% 1/4W)
R207	63-9921-60	330 OHM ±5% 1/4W (ALT 63-10183-60 ±10% 1/4W)
R208	63-9921-96	10K OHM ±5% 1/4W (ALT 63-10181-96 ±5% 1/4W)
R209	63-9921-78	1.8K OHM ±5% 1/4W (ALT 63-10183-78 ±10% 1/4W)
R210	63-9921-96	10K OHM ±5% 1/4W (ALT 63-10183-96 ±10% 1/4W)
R211	63-9922-02	15K OHM ±5% 1/4W (ALT 63-10184-02 ±10% 1/4W)
R212	63-9922-36	470K OHM ±5% 1/4W (ALT 63-10184-36 ±10% 1/4W)
R213	63-10051-02	2.5K OHM PM METER ADJUST
R214	63-9921-60	2.2K OHM ±5% 1/4W (ALT 63-10183-60 ±10% 1/4W)
R215	63-9921-60	330 OHM ±5% 1/4W (ALT 63-10183-60 ±10% 1/4W)
R216	63-9921-68	680 OHM ±5% 1/4W (ALT 63-10183-68 ±10% 1/4W)
R217	63-9922-32	330K OHM ±5% 1/4W (ALT 63-10184-32 ±10% 1/4W)
R218	63-9921-64	470 OHM ±5% 1/4W (ALT 63-10183-64 ±10% 1/4W)
R219	63-9922-22	120K OHM ±5% 1/4W (ALT 63-10182-22 ±5% 1/4W)
R220	63-9922-08	27K OHM ±5% 1/4W (ALT 63-10182-08 ±5% 1/4W)
R221	63-9921-88	4.7K OHM ±5% 1/4W (ALT 63-10183-88 ±10% 1/4W)
R222	63-9922	15 OHM ±5% 1/4W (ALT 63-10184 ±10% 1/4W)
R223	63-9921-72	1K OHM ±5% 1/4W (ALT 63-10183-72 ±10% 1/4W)
R224	63-9921-60	330 OHM ±5% 1/4W (ALT 63-10183-60 ±10% 1/4W)
R225	63-4171	470 OHM ±10% 1/4W
R226	63-9922-32	330K OHM ±5% 1/4W (ALT 63-10184-32 ±10% 1/4W)
R227	63-9921-84	3.3K OHM ±5% 1/4W (ALT 63-10183-84 ±10% 1/4W)
R228	63-9921-78	1.8K OHM ±5% 1/4W (ALT 63-10183-78 ±10% 1/4W)
R229	63-9921-96	10K OHM ±5% 1/4W (ALT 63-10183-96 ±10% 1/4W)
R230	63-9921-96	10K OHM ±5% 1/4W (ALT 63-10183-96 ±10% 1/4W)
R231	63-9921-46	68 OHM ±5% 1/4W (ALT 63-10182-46 ±5% 1/4W)
R232	63-4290	330K OHM ±10% 1/4W
R301	63-8924-56	3.3 MEG OHM ±10% 1/4W (ALT 63-10184-56 ±10% 1/4W)
R302	63-9922-22	120K OHM ±5% 1/4W (ALT 63-10182-22 ±5% 1/4W)
R303	63-9922-34	390K OHM ±5% 1/4W (ALT 63-10184-34 ±10% 1/4W)
R304	63-9922-24	150K OHM ±5% 1/4W (ALT 63-10184-24 ±10% 1/4W)
R305	63-9922-34	390K OHM ±5% 1/4W (ALT 63-10184-34 ±10% 1/4W)
R306	63-9922-36	470K OHM ±5% 1/4W (ALT 63-10182-36 ±5% 1/4W)
R307	63-9922-10	39K OHM ±5% 1/4W (ALT 63-10184-10 ±10% 1/4W)
R308	63-10051-04	5.6K OHM MUTE ADJUST
R309	63-9922-30	270K OHM ±5% 1/4W (ALT 63-10184-30 ±10% 1/4W)
R310	63-9922-20	100K OHM ±5% 1/4W (ALT 63-10184-20 ±10% 1/4W)
R311	63-9922-16	68K OHM ±5% 1/4W (ALT 63-10182-16 ±5% 1/4W)
R312	63-9921-88	4.7K OHM ±5% 1/4W (ALT 63-10183-88 ±10% 1/4W)
R313	63-9921-88	4.7K OHM ±5% 1/4W (ALT 63-10183-88 ±10% 1/4W)
R314	63-9921-48	82 OHM ±5% 1/4W (ALT 63-10181-48 ±5% 1/4W)
R315	63-9921-72	1K OHM ±5% 1/4W (ALT 63-10183-72 ±10% 1/4W)
R316	63-10051-06	12K OHM ±5% 1/4W
R317	63-10051-03	5K PHASE LOCKED LOOP ADJUST
R318	63-9922-14	47K OHM ±5% 1/4W (ALT 63-10184-14 ±10% 1/4W)
R319	63-9921-94	8.2K OHM ±5% 1/4W (ALT 63-10181-94 ±5% 1/4W)
R320	63-9922-16	68K OHM ±5% 1/4W (ALT 63-10184-16 ±10% 1/4W)
R321	63-9922-10	39K OHM ±5% 1/4W (ALT 63-10184-10 ±10% 1/4W)
R322	63-9921-94	8.2K OHM ±5% 1/4W (ALT 63-10181-94 ±5% 1/4W)
R323	63-9922-10	39K OHM ±5% 1/4W (ALT 63-10184-10 ±10% 1/4W)
R324	63-4308	820K OHM ±10% 1/4W
R325	63-4308	820K OHM ±10% 1/4W
R401	63-9922-30	270K OHM ±5% 1/4W (ALT 63-7887 ±10% 1/2W)
R402	63-9922-12	47K OHM ±5% 1/4W (ALT 63-7885 ±10% 1/2W)
R403	63-9922-26	150K OHM ±5% 1/4W (ALT 63-7890 ±10% 1/2W)
R404	63-9922-22	120K OHM ±5% 1/4W (ALT 63-7880 ±10% 1/2W)
R405	63-9922-06	22K OHM ±5% 1/4W (ALT 63-7845 ±10% 1/2W)
R406		
R407	63-9921-78	1000 OHM ±5% 1/4W (ALT 63-7796 ±10% 1/2W)
R408	63-9922-08	33K OHM ±5% 1/4W (ALT 63-7848 ±10% 1/2W)
R409		
R410L	63-10189-02	50K OHM DUAL LOUDNESS CONTROL (ALT 63-10188)
R411	63-9922-44	1 MEG OHM ±5% 1/4W (ALT 63-7911 ±10% 1/2W)
R412	63-9921-88	4.7K OHM ±5% 1/4W (ALT 63-7813 ±10% 1/2W)
R413	63-9921-68	680 OHM ±5% 1/4W (ALT 63-7778 ±10% 1/2W)
R414	63-9922-10	39K OHM ±5% 1/4W (ALT 63-7818 ±10% 1/2W)
R415R	63-9982-10	100K OHM DUAL BASS CONTROL (ALT 63-8982)
R416	63-9921-90	5.6K OHM ±5% 1/4W (ALT 63-7817 ±10% 1/2W)
R417R	63-8983-02	50K OHM DUAL TREBLE CONTROL (ALT 63-8983)
R418	63-9922-04	22K OHM ±5% 1/4W (ALT 63-7841 ±10% 1/2W)
R419		
R420	63-8981-02	250K OHM BALANCE CONTROL (ALT 63-8981)
R421	63-9922-20	100K OHM ±5% 1/4W (ALT 63-7869 ±10% 1/2W)
R422	63-9922-20	100K OHM ±5% 1/4W (ALT 63-7868 ±10% 1/2W)
R423	63-9922-24	150K OHM ±5% 1/4W (ALT 63-7875 ±10% 1/2W)
R424	63-9921-50	120 OHM ±5% 1/4W (ALT 63-7747 ±10% 1/2W)
R425	63-9921-92	6800 OHM ±5% 1/4W (ALT 63-7820 ±10% 1/2W)
R426	63-9921-82	2700 OHM ±5% 1/4W (ALT 63-7802 ±10% 1/2W)
R427	63-9921-72	1K OHM ±5% 1/4W (ALT 63-7792 ±5% 1/2W)
R428		
R429	63-9921-88	4700 OHM ±5% 1/4W (ALT 63-7812 ±5% 1/2W)
R430	63-9921-70	820 OHM ±5% 1/4W (ALT 63-7782 ±10% 1/2W)
R431	63-8328	300 OHM BIAS ADJUST
R432		
R433		
R434		
R435		
R436		
R437	63-10051-01	2.2 OHM ±10% 5W
R438	63-4813	1.5 OHM ±5% 10W
R439	63-1456-54	10 OHM ±5% 2W
R440	63-9946-76	1500 OHM ±5% 1/2W (ALT 63-7792 ±10% 1/2W)
R441		
R442		
R443	63-1757	220 OHM ±10% 1/2W
R444		
R445	63-10135	11 OHM ±10% 5W
R446	63-4294	390K OHM 1/4W
R451	63-9922-30	270K OHM ±5% 1/4W (ALT 63-7887 ±10% 1/2W)
R452		
R453	63-9922-26	180K OHM ±5% 1/4W (ALT 63-7880 ±10% 1/2W)
R454	63-9922-32	330K OHM ±5% 1/4W (ALT 63-7890 ±10% 1/2W)
R455	63-9922-06	22K OHM ±5% 1/4W (ALT 63-7845 ±10% 1/2W)
R456		
R457	63-9921-78	1800 OHM ±5% 1/4W (ALT 63-7796 ±10% 1/2W)
R458		
R459	63-9922-08	33K OHM ±5% 1/4W (ALT 63-7848 ±10% 1/2W)
R460		
R461		
R462	63-9922-04	1 MEG OHM ±5% 1/4W (ALT 63-7911 ±10% 1/2W)
R463	63-9921-88	4.7K OHM ±5% 1/4W (ALT 63-7813 ±10% 1/2W)
R464	63-9921-68	680 OHM ±5% 1/4W (ALT 63-7778 ±10% 1/2W)
R465	63-9922-02	15K OHM ±5% 1/4W (ALT 63-7838 ±10% 1/2W)
R466		
R467	63-9921-90	5.6K OHM ±5% 1/4W (ALT 63-7817 ±10% 1/2W)
R468		
R469	63-9922-04	22K OHM ±5% 1/4W (ALT 63-7841 ±10% 1/2W)
R470		
R471	63-9922-20	100K OHM ±5% 1/4W (ALT 63-7869 ±10% 1/2W)
R472		
R473		
R474	63-9921-60	330 OHM ±5% 1/4W (ALT 63-7747 ±10% 1/2W)
R475	63-9921-92	6800 OHM ±5% 1/4W (ALT 63-7820 ±10% 1/2W)
R476	63-9921-82	2700 OHM ±5% 1/4W (ALT 63-7803 ±10% 1/2W)
R477	63-9921-90	5600 OHM ±5% 1/4W (ALT 63-7817 ±10% 1/2W)
R478		
R479	63-9921-88	4700 OHM ±5% 1/4W (ALT 63-7812 ±5% 1/2W)
R480	63-9921-70	820 OHM ±5% 1/4W (ALT 63-7782 ±10% 1/2W)
R481	63-8328	300 OHM BIAS ADJUST
R482		
R483		
R484		
R485		
R486	63-10051-01	2.2 OHM ±10% 5W
R487	63-4813	1.5 OHM ±5% 10W
R488	63-1456-54	10 OHM ±5% 2W
R489	63-9946-76	1500 OHM ±5% 1/2W (ALT 63-7792 ±10% 1/2W)
R490		
R491		
R492		
R493	63-1757	220 OHM ±10% 1/2W
R494		
R495	63-4294	390K OHM 1/4W
R496		
R497	63-8924-50	3.3 MEG OHM ±10% 1/4W
R498	63-8920	5.6 OHM ±10% 1/2W
R499	63-10135-01	11 OHM ±10% 5W
R500	63-4294	390K OHM 1/4W
R501	63-10051-05	2.7 OHM ±10% 5W
R502	63-1456-56	15 OHM ±5% 2W
R503	63-1456-56	15 OHM ±5% 2W
R504	63-4294	390K OHM 1/4W
R505	63-9946-76	1500 OHM ±5% 1/2W (ALT 63-7792 ±10% 1/2W)
R506		
R507	63-9921-80	2.2K OHM ±5% 1/4W (ALT 63-7802 ±10% 1/2W)
R508	63-9921-70	820 OHM ±5% 1/4W (ALT 63-7782 ±10% 1/2W)
R509	63-9921-80	2.2K OHM ±5% 1/4W (ALT 63-7802 ±10% 1/2W)
R510	63-9946-28	15 OHM ±5% 1/2W (ALT 63-7708 ±10% 1/2W)
R511		
R512	63-9921-78	1800 OHM ±5% 1/4W (ALT 63-7796 ±10% 1/2W)
R513	63-9922-18	47K OHM ±5% 1/4W (ALT 63-7868 ±10% 1/2W)
R514	63-9922-04	22K OHM ±5% 1/4W (ALT 63-7841 ±10% 1/2W)
CR1	103-47-01	AFC DIODE
CR201	103-23-01	GERMANIUM DIODE
CR202	103-23-01	GERMANIUM DIODE
CR203	103-23-01	GERMANIUM DIODE
CR204		
CR205	103-23-01	GERMANIUM DIODE
CR301	103-142	SILICON DIODE
CR302	103-23-01	GERMANIUM DIODE
CR303	103-142-01	SILICON DIODE
CR304	103-142	SILICON DIODE (REFER TO SR1)
CR401	103-145-01	SILICON DIODE
CR402	103-145-01	SILICON DIODE
CR403	103-145-01	SILICON DIODE
CR404	103-145-01	SILICON DIODE
CR451	103-145-01	SILICON DIODE
CR452	103-145-01	SILICON DIODE
CR453	103-145-01	SILICON DIODE
CR454	103-145-01	SILICON DIODE
CR455	103-145-01	SILICON DIODE
CR506	103-142-01	SILICON DIODE
CR507	103-142-01	SILICON DIODE
CR508	103-256	ZENER DIODE
CR506	103-142-01	SILICON DIODE
CR507	103-142-01	SILICON DIODE
L1	20-3595	FM ANTENNA COIL
L2	20-3594	FM RF COIL
L3	20-1631	10.7 MHz TRAP COIL
L4	20-3545	FM OSCILLATOR COIL
L5	20-2033	10 MICROHENRY COIL
L101	A-94	AM ANTENNA COIL ASSEMBLY
L102	20-3811	1ST IF TRANSFORMER
L103	IN T101	2ND IF TRANSFORMER
L104	148-311	FERRITE CORE SLEEVE
L105	IN T102	AM OSCILLATOR TRANSFORMER PRI.
L106	IN T102	AM OSCILLATOR TRANSFORMER SEC.
L107	148-311	FERRITE CORE SLEEVE
L201	IN T201	1ST IF TRANSFORMER 10.7 MHz PRI.
L202	IN T201	1ST IF TRANSFORMER 10.7 MHz SEC.
L203	IN T202	1ST IF AM 455 KHz PRI.
L204	IN T202	1ST IF AM 455 KHz SEC.
L205	20-3792	10.7 MHz QUAD DETECTOR COIL
L206	20-2033	10 MICROHENRY COIL
L207	IN T203	2ND IF AM 455KHz PRI.
L208	IN T203	2ND IF AM 455 KHz SEC.
L209	IN T204	3RD IF AM 455KHz PRI.
L219	IN T204	3RD IF AM 455 KHz SEC.
L401	20-3736	CHOKE COIL 30 MICROHENRY
L451	20-3736	CHOKE COIL 30 MICROHENRY
L501	20-2033	10 MICROHENRY COIL
T101	95-3750	BC RF TRANSFORMER
T102	95-3544	AM OSCILLATOR TRANSFORMER
T201	95-2753	FM IF TRANSFORMER 10.7 MHz
T202	95-2751	AM 1ST IF 455 KHz
T203	95-2752	AM 2ND IF 455 KHz
T204	95-2689	AM 3RD IF 455 KHz
CR301R	103-142	SILICON TRANSISTOR
CR302R	103-142	SILICON TRANSISTOR
CR301R	103-142	SILICON TRANSISTOR
CR302R	103-142	SILICON TRANSISTOR
IC201	22-189	FM IF GAIN BLOCK
IC202	22-190	FM IF LIMITER QUAD DETECTOR
IC301	22-191	MULTIPLEX PLL DEMODULATOR
DS301	100-611	STEREO INDICATOR LIGHT
DS101R	100-630	POINTER LIGHT
DS102R	100-630	MULTI-FLIGHT
DS103R	100-265	DIAL LIGHT (NO. 1847)
DS104R	100-265	DIAL LIGHT (NO. 1847)
DS105R	100-633	FLUG LIGHT
DS106R	100-249	CABINET LIGHT (NO. 1387)
DS107R	100-249	CABINET LIGHT (NO. 1387)
M1	122-72	TUNING METER
J1	76-2137	HEADPHONE JACK
PC	204-585	PRINTED CIRCUIT BOARD, RF
PC	204-583	PRINTED CIRCUIT BOARD, AUDIO
PC	204-586	PRINTED CIRCUIT BOARD, POWER AMPLIFIER
PC	204-584	PRINTED CIRCUIT BOARD, POWER SUPPLY
SW1	85-1474	BANDSWITCH (DO NOT USE DIODE CR306)
	85-1439-01	BANDSWITCH (EARLY PRODUCTION) (USE DIODE CR306)
SW2	85-1456	FM MONO SWITCH
SW3	85-1456-01	FM AFC SWITCH
SW4	85-1456-01	FM MUTE SWITCH
SW5	85-1456-01	MATRIX SWITCH
SW6	85-1447-01	HIGH FILTER SWITCH
Y201	224-1	CERAMIC FILTER, 10.64 MHz (BLACK)
Y202	224-1-01	CERMIAC FILTER, 10.67 MHz (BLUE)
	224-1-02	CERAMIC FILTER, 10.70 MHz (RED)
	224-1-03	CERAMIC FILTER, 10.73MHz (ORANGE)
	224-1-04	CERAMIC FILTER, 10.76 MHz (WHITE)
		FOR FILTER CHECKING



CHASSIS 12WHR29 – CHASSIS WIRING AND COMPONENTS
VIEWED FROM FOIL SIDE – RF/IF/MPX

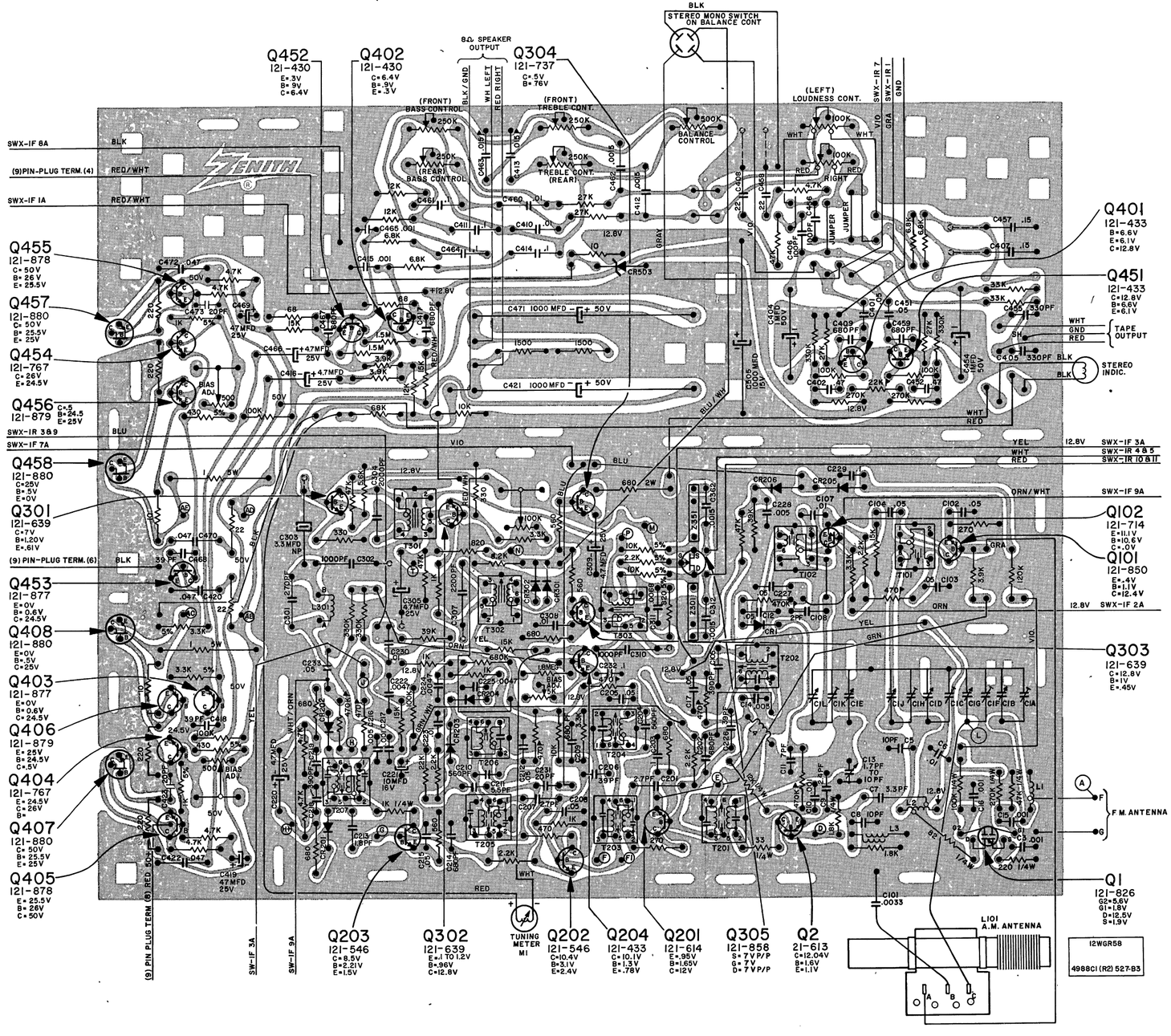


CHASSIS 12WHR29 – CHASSIS WIRING AND COMPONENTS
VIEWED FROM FOIL SIDE – PREAMPLIFIER

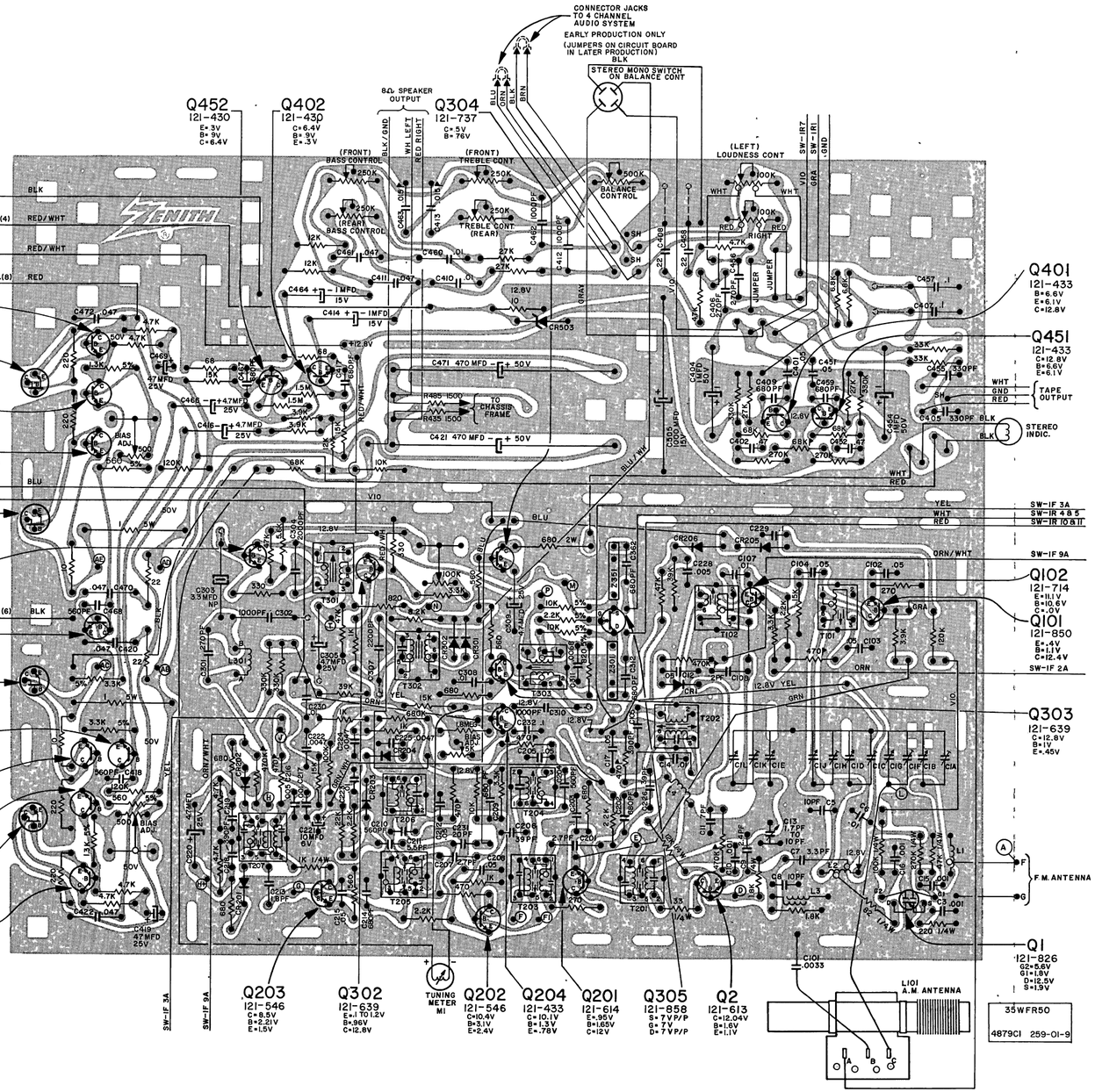
LEGEND CHASSIS 12WGR58

ITEM NO.	PART NUMBER	DESCRIPTION
C1A		FM ANT TRIMMER
C1B		FM ANT TUNING
C1C		FM DETECTOR TRIMMER
C1D		FM DETECTOR TUNING
C1E		FM OSCILLATOR TUNING
C1F	22-6752	AM ANT TRIMMER
C1G		AM ANT TUNING
C1H		AM DETECTOR TRIMMER
C1J		AM DETECTOR TUNING
C1K		AM OSCILLATOR TRIMMER
C1L		AM OSCILLATOR TUNING
C3	22-2729	.001 MFD DISC 25V
C5	22-3675	10 PF DISC ±5% 500V
C6	22-3393	.01 MFD DISC 25V
C7	22-3541	3.3 PF GIMMICK ±5% 500V
C8	22-3675	10 PF DISC ±5% 500V
C9	22-6469	2.4 PF GIMMICK 5% 500V
C10	22-2729	.001 MFD DISC 25V
C11	22-6344	7 PF ±.5 PF 500V
C12	22-3034	.05 MFD DISC 25V
C13	22-4805	1.7 TO 10 PF CERAMIC TRIMMER
C14	22-3080	.005 MFD DISC 25V
C15	22-2729	.001 MFD DISC 25V
C16	22-2729	.001 MFD DISC 25V
C17	22-3034	.05 MFD DISC 25V
C101	22-13	.0033 MFD DISC ±10% 500V
C102	22-3034	.05 MFD DISC 25V
C103	22-3034	.05 MFD DISC 25V
C104	22-3034	.05 MFD DISC 25V
C105	22-5372	390 PF POLYSTYRENE ±5% 125V
C107	22-3393	.01 MFD DISC 25V
C108	22-4819	2 PF ± .25 PF 500V
C201	22-3310	2.7 PF GIMMICK 500V
C202	22-5482	680 PF DISC 500V
C203	22-3662	1 MFD DISC 10V
C204	22-5481	560 PF DISC 500V
C205	22-3036	.05 MFD DISC 25V
C206	22-3381	30 PF DISC ±5% 500V
C207	22-3310	2.7 PF GIMMICK 500V
C208	22-3034	.05 MFD DISC 25V
C209	22-5482	680 PF DISC 500V
C210	22-5482	680 PF DISC 500V
C211	22-3770	5.6 PF DISC ±.25 PF 500V
C212	22-3034	.05 MFD DISC 25V
C213	22-2428	1.8 PF GIMMICK 500V
C214	22-5482	680 PF DISC 500V
C215	22-3034	.05 MFD DISC 25V
C216	22-3036	.05 MFD DISC 25V
C217	22-2729	.001 MFD DISC 25V
C218	22-3381	30 PF DISC ±5% 500V
C219	22-3177	390 PF DISC 500V
C220	22-7142-03	47 MFD ELECTROLYTIC 25V
C221	22-7151-04	10 MFD ELECTROLYTIC 16V
C222	22-14	.0047 MFD 500V
C223	22-3393	.01 MFD DISC 500V
C224	22-14	.0047 MFD 500V
C225	22-14	.0047 MFD 500V
C226	22-3381	30 PF DISC ±5% 500V
C227	22-3034	.05 MFD DISC 25V
C228	22-3040	.005 MFD DISC 25V
C229	22-3662	1 MFD DISC 10V
C230	22-5056	.02 MFD DISC 25V
C231	22-3751	20 PF ±5% 500V
C232	22-3662	1 MFD DISC 10V
C233	22-3034	.05 MFD DISC 25V
C301	22-5780	270 PF POLYSTYRENE ±5% 500V
C302	22-5781	1000 PF POLYSTYRENE ±5% 500V
C303	22-6245	3.3 MFD N.P 16V
C304	22-5457	2200 PF ±5% POLYSTYRENE 50V
C305	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C307	22-5782	2200 PF POLYSTYRENE ±5% 500V
C308	22-3393	.01 MFD DISC 25V
C309	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C310	22-5781	1000 PF POLYSTYRENE ±5% 500V
C311	22-3475	.0068 MFD DISC 25V
C312	22-5483	.0015 MFD DISC 100V
C362	22-5483	.0015 MFD DISC 100V
C401	22-3034	.05 MFD DISC 25V
C402	22-5487	.47 MFD DISC 3V
C404	22-7143	1 MFD ELECTROLYTIC 50V
C405	22-3255	330 PF DISC 500V
C406	22-3036	.05 MFD DISC 25V
C407	22-6134	15 MFD MYLAR 100V
C408	22-6049	.22 MFD MYLAR 50V
C409	22-5482	680 PF DISC 500V
C410	22-5893	.01 MFD MYLAR 100V
C411	22-5862	1 MFD MYLAR 100V
C412	22-5893	.01 MFD MYLAR 100V
C413	22-5233	.015 MFD MYLAR ±20% 50V
C414	22-5862	1 MFD MYLAR 100V
C415	22-5688	.001 MFD MYLAR 100V
C416	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C417	22-5482	680 PF DISC 500V
C418	22-2331	.47 MFD ELECTROLYTIC 25V
C419	22-7152-07	.47 MFD ELECTROLYTIC 25V
C420	22-5893	.047 MFD MYLAR 100V
C421	22-7143-12	1000 MFD ELECTROLYTIC 50V
C422	22-5862	.047 MFD MYLAR 100V
C423	22-3751	20 PF DISC ±5% 500V
C451	22-3034	.05 MFD DISC 25V
C452	22-5487	.47 MFD DISC 3V
C454	22-7143	1 MFD ELECTROLYTIC 50V
C455	22-3255	330 PF DISC 500V
C456	22-3393	.01 MFD DISC 25V
C457	22-6134	15 MFD MYLAR 100V
C459	22-6049	.22 MFD MYLAR 50V
C459	22-5482	680 PF DISC 500V
C460	22-5893	.01 MFD MYLAR 100V
C461	22-5862	1 MFD MYLAR 100V
C462	22-5643	.0015 MFD DISC 500V
C463	22-5233	.015 MFD MYLAR ±20% 50V
C464	22-5862	1 MFD MYLAR 100V
C465	22-5688	.001 MFD DISC ±20% 500V
C466	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C467	22-5482	680 PF DISC 500V
C468	22-2331	.39 PF DISC ±5% 500V
C469	22-7152-07	47 MFD ELECTROLYTIC 25V
C470	22-5668	.047 MFD MYLAR 100V
C471	22-7143-12	1000 MFD ELECTROLYTIC 50V
C472	22-5866	.047 MFD MYLAR 100V
C473	22-3751	20 PF DISC ±5% 500V
C501	22-5035	.01 MFD DISC 100V
C502	22-5617	.01 MFD DISC 500V
C503	22-4017	.01 MFD DISC 500V
C504	22-6133	1000 MFD ELECTROLYTIC 25V
C505	22-7141-12	1000 MFD ELECTROLYTIC 16V
C506	22-5617	.01 MFD DISC 500V
R1	63-9921-56	220 OHM 5% (ALT 63-10183-56 1/4W 10%)
R2	63-4269	100K OHM 10% 1/4W
R3	63-9921-64	470 OHM 5% (ALT 63-7772 1/2W 20%)
R4	63-1796	1.8K OHM 10% 1/2W
R5	63-9921-78	1.8K OHM 5% (ALT 63-10183-78 1/4W 10%)
R6	63-4231	12K OHM 10% 1/4W
R7	63-1898	470K OHM 20% 1/2W
R8	63-4122	33 OHM 10% 1/4W
R9	63-9922-36	470K OHM 5% (ALT 63-7898 1/2W 20%)
R10	63-4140	82 OHM 10% 1/4W
R11	63-4287	270K OHM 10% 1/4W
R12	63-4255	47K OHM 10% 1/4W
R101	63-9921-64	470 OHM 5% (ALT 63-7772 1/2W 20%)
R102	63-9921-58	270 OHM 5% (ALT 63-7761 10% 1/2W)
R103	63-9921-36	3.9K OHM 5% (ALT 63-7816 1/2W 10%)
R104	63-9922	15K OHM 5% (ALT 63-7824 1/2W 10%)
R105	63-9921-84	3.3K OHM 5% (ALT 63-7906 1/2W 10%)
R106	63-9921-80	2.2K OHM 5% (ALT 63-7799 1/2W 10%)
R201	63-9921-68	680 OHM 5% (ALT 63-7778 10% 1/2W)
R202	63-9921-58	270 OHM 5% (ALT 63-7761 10% 1/2W)
R203	63-9921-64	470 OHM 5% (ALT 63-7772 20% 1/2W)
R204	63-9921-84	3.3K OHM 5% (ALT 63-7906 10% 1/2W)
R205	63-9921-96	10K OHM 5% (ALT 63-7827 10% 1/2W)
R206	63-9921-64	470 OHM 5% (ALT 63-7771 10% 1/2W)
R207	63-9921-72	1K OHM 5% (ALT 63-7785 10% 1/2W)
R208	63-9921-80	2.2K OHM 5% (ALT 63-7799 10% 1/2W)
R209	63-9921-64	470 OHM 5% (ALT 63-7772 20% 1/2W)
R210	63-4188	1K OHM 10% 1/4W
R211	63-9921-66	560 OHM 5% (ALT 63-7779 10% 1/2W)
R212	63-1772	470 OHM 20% 1/2W
R213	63-1778	680 OHM 10% 1/2W
R214	63-9921-68	680 OHM 5% (ALT 63-7778 10% 1/2W)
R215	63-1813	4700 OHM 10% 1/2W
R216	63-1815	4700 OHM 10% 1/2W
R217	63-9921-80	2.2K OHM 5% (ALT 63-7799 10% 1/2W)
R218	63-9922-20	100K OHM 5% (ALT 63-7889 10% 1/2W)
R219	63-9923-04	22K OHM 5% (ALT 63-7841 10% 1/2W)
R220	63-9921-72	1K OHM 5% (ALT 63-7785 10% 1/2W)
R221	63-9922	15K OHM 5% (ALT 63-7824 10% 1/2W)
R222	63-9921-72	1K OHM 5% (ALT 63-7785 10% 1/2W)
R223	63-9922-40	680K OHM 5% (ALT 63-7969 10% 1/2W)
R224	63-9923-36	470K OHM 5% (ALT 63-7898 20% 1/2W)
R225	63-9921-80	2.2K OHM 5% (ALT 63-7799 10% 1/2W)
R226	63-9922-10	39K OHM 5% (ALT 63-7852 10% 1/2W)
R227	63-9922-12	47K OHM 5% (ALT 63-7854 10% 1/2W)
R228	63-9922-10	39K OHM 5% (ALT 63-7852 10% 1/2W)
R229	63-9923-22	100K OHM 5% (ALT 63-7873 10% 1/2W)
R230	63-9922-32	330K OHM 5% (ALT 63-7889 10% 1/2W)
R231	63-9922-32	330K OHM 5% (ALT 63-7890 10% 1/2W)
R232	63-9924-50	1.8M OHM 5% (ALT 63-7922 10% 1/2W)
R233	63-8708	5K BIAS ADJUST
R234	63-9922	15K OHM 5% (ALT 63-7824 10% 1/2W)
R235	63-9922-16	68K OHM 5% (ALT 63-7862 10% 1/2W)
R236	63-9921-98	12K OHM 5% (ALT 63-7831 10% 1/2W)
R237	63-9921-96	10K OHM 5% (ALT 63-7828 20% 1/2W)
R301	63-9922-12	47K OHM 5% (ALT 63-7855 10% 1/2W)
R302	63-9921-80	5.6K OHM 5% (ALT 63-7817 10% 1/2W)
R303	63-9921-60	330 OHM 5% (ALT 63-7764 10% 1/2W)
R304		
R305	63-9922-12	47K OHM 5% (ALT 63-7855 10% 1/2W)
R306	63-9921-60	330 OHM 5% (ALT 63-7764 10% 1/2W)
R307	63-9921-84	3.3K OHM 5% (ALT 63-7906 10% 1/2W)
R308	63-6496	100K MUTE CONTROL
R309	63-9921-72	1K OHM 5% (ALT 63-7785 10% 1/2W)
R310	63-9921-70	820 OHM 5% (ALT 63-7782 10% 1/2W)
R311		
R312	63-9921-94	8.2K OHM 5% (ALT 63-7924 10% 1/2W)
R313	63-9921-66	560 OHM 5% (ALT 63-7775 10% 1/2W)
R314	63-9921-68	680 OHM 5% (ALT 63-7778 10% 1/2W)
R315	63-9921-66	560 OHM 5% (ALT 63-7775 10% 1/2W)
R316	63-5082	680 OHM 10% 2W
R317		
R318	63-9921-70	820 OHM 5% (ALT 63-7781 5% 1/2W)
R319	63-9921-96	10K OHM 5% (ALT 63-7828 5% 1/2W)
R320	63-9921-80	2.2K OHM 5% (ALT 63-7799 5% 1/2W)
R321	63-9921-96	10K OHM 5% (ALT 63-7826 5% 1/2W)
R401	63-9922-30	270K OHM 5% (ALT 63-7887 10% 1/2W)
R402	63-9922-20	100K OHM 5% (ALT 63-7869 10% 1/2W)
R403	63-9922-32	330K OHM 5% (ALT 63-7890 10% 1/2W)
R404	63-9922-46	27K OHM 5% (ALT 63-7845 10% 1/2W)
R405	63-9921-82	6.8K OHM 5% (ALT 63-7820 10% 1/2W)
R406	63-9922-08	33K OHM 5% (ALT 63-7849 10% 1/2W)
R407	63-9921-88	4700 OHM 5% (ALT 63-7813 10% 1/2W)
R408BL		
R408L	63-8967-01	1000K DUAL LOUDNESS CONTROL
R411	63-9921-92	6.8K OHM 5% (ALT 63-7820 10% 1/2W)
R412	63-9922-46	27K OHM 5% (ALT 63-7845 10% 1/2W)
R413R	63-8965-01	250K DUAL BASS CONTROL
R413L		
R414R	63-9921-98	12K OHM 5% (ALT 63-7831 10% 1/2W)
R414L	63-8964-01	250K DUAL TREBLE CONTROL
R415	63-9924-48	1.5 MEG 5% (ALT 63-7918 10% 1/2W)
R417	63-9921-86	3900 OHM 5% (ALT 63-7810 10% 1/2W)
R418	63-9921-44	68 OHM 5% (ALT 63-7736 10% 1/2W)
R419	63-9922	15K OHM 5% (ALT 63-7824 10% 1/2W)
R420	63-9921-84	3.3K OHM 5% (ALT 63-7906 5% 1/2W)
R421	63-9922-20	100K OHM 5% (ALT 63-7869 5% 1/2W)
R422	63-9921-88	4700 OHM 5% (ALT 63-7813 10% 1/2W)
R423	63-9921-88	4700 OHM 5% (ALT 63-7813 10% 1/2W)
R424	63-9921-88	4700 OHM 5% (ALT 63-7813 10% 1/2W)
R425	63-9921-72	1000 OHM 5% (ALT 63-7784 5% 1/2W)
R426	63-9201	500 OHM BIAS ADJUST
R427	63-9921-63	430 OHM 5% (ALT 63-7769 5% 1/2W)
R428	63-1757	220 OHM 10%
R429	63-1757	220 OHM 10% 1/2W
R430	63-9922	15K OHM 5%
R431	63-9922-08	33K OHM 5% (ALT 63-7848 10% 1/2W)
R432	63-8966-01	500K BALANCE CONTROL AND SW
R434	63-9946-24	10 OHM 5% 1/2W (ALT 63-7701 10% 1/2W)
R437	63-9946-76	1500 OHM 5% 1/2W (ALT 63-7792 10% 1/2W)
R451	63-9922-30	270K OHM 5% (ALT 63-7887 10% 1/2W)
R452	63-9922-20	100K OHM 5% (ALT 63-7869 10% 1/2W)
R453	63-9922-62	330K OHM 5% (ALT 63-7890 10% 1/2W)
R454	63-9922-46	27K OHM 5% (ALT 63-7845 10% 1/2W)
R455	63-9921-92	6.8K OHM 5% (ALT 63-7820 10% 1/2W)
R456	63-9922-08	33K OHM 5% (ALT 63-7848 10% 1/2W)
R457	63-9921-88	4700 OHM 5% (ALT 63-7813 10% 1/2W)
R461	63-9921-92	6.8K OHM 5% (ALT 63-7820 10% 1/2W)
R462	63-9922-06	27K OHM 5% (ALT 63-7845 10% 1/2W)
R464	63-9921-98	12K OHM 5% (ALT 63-7831 10% 1/2W)
R465		
R466	63-9924-48	1.5 MEG 5% (ALT 63-7918 10% 1/2W)
R467	63-9921-86	3900 OHM 5% (ALT 63-7810 10% 1/2W)
R468	63-9921-44	68 OHM 5% (ALT 63-7736 10% 1/2W)
R469	63-9922	15K OHM 5% (ALT 63-7824 10% 1/2W)
R470	63-9921-84	3.3K OHM 5% (ALT 63-7905 5% 1/2W)
R471	63-9922-20	100K OHM 5% (ALT 63-7869 5% 1/2W)
R472	63-9921-88	4700 OHM 5% (ALT 63-7813 10% 1/2W)
R474	63-9921-88	4700 OHM 5% (ALT 63-7813 10% 1/2W)
R475	63-9921-72	1000 OHM 5% (ALT 63-7784 5% 1/2W)
R476	63-9201	500 OHM BIAS ADJUST
R477	63-9921-63	430 OHM 5% (ALT 63-7769 5% 1/2W)
R478	63-1757	220 OHM 10%
R479	63-1757	220 OHM 10%
R480	63-4805	1.7 OHM 10% 5W
R484	63-9946-24	10 OHM 5% 1/2W (ALT 63-7701 10% 1/2W)
R487	63-9946-76	1500 OHM 5% 1/2W (ALT 63-7792 10% 1/2W)
R501	63-10183-60	1.2 MEG 20%
R502	63-4806	1.2K OHM 5%
R503	63-9946-24	10 OHM 5% 1/2W (ALT 63-7701 10% 1/2W)
L1	20-3076	FM ANTENNA COIL
L2	20-3077	FM DETECTOR COIL
L3	20-1256	TRAP COIL 10.7 MHz
L4	20-3545	FM OSCILLATOR COIL
L101	5-88463	AM ANTENNA COIL ASSEMBLY
L102	149-311	FERRITE CORE SLEEVE
L103	IN T102	AM OSCILLATOR TRANS. PRI.
L104	IN T102	AM OSCILLATOR TRANS. SEC.
L105	149-311	FERRITE CORE SLEEVE
L106	IN T101	BC RF TRANS.
L201	IN T201	1ST IF TRANSFORMER 10.7 MHz PRI.
L202	IN T201	1ST IF TRANSFORMER 10.7 MHz SEC.
L203	IN T202	1ST IF AM 455 KHz PRI.
L204	IN T202	1ST IF AM 455 KHz SEC.
L205	IN T203	2ND IF TRANSFORMER 10.7 MHz PRI.
L206	IN T203	2ND IF TRANSFORMER 10.7 MHz SEC.
L207	IN T204	2ND AM 455 KHz PRI.
L208	IN T204	2ND IF TRANSFORMER 10.7 MHz PRI.
L209	IN T205	2ND IF TRANSFORMER 10.7 MHz SEC.
L210	IN T206	3RD IF AM 455 KHz PRI.
L211	IN T206	3RD IF AM 455 KHz SEC.
L212	IN T207	RATIO DETECTOR TRANS. 10.7 MHz PRI.
L213	IN T207	RATIO DET TRANS. 10.7 MHz TERTIARY
L214	IN T207	RATIO DETECTOR TRANS. 10.7 MHz SEC.
L215	IN T204	2ND AM 455 KHz PRI.
L301	20-3080	67 KHz TRAP COIL (PREFERRED)
T101	95-2750	B. C. R. F TRANSFORMER
T102	95-2544	AM OSCILLATOR TRANSFORMER
T201	95-2753	FM 1ST IF TRANSFORMER 10.7 MHz
T202	95-2751	AM 1ST IF AM 455 KHz
T203	95-2754	FM 2ND IF TRANSFORMER 10.7 MHz
T204	95-2752	AM 2ND IF AM 455 KHz
T205	95-2755	FM 3RD IF TRANSFORMER 10.7 MHz
T206	95-2543	AM 3RD IF AM 455 KHz
T207	95-2756	FM RATIO DETECTOR 10.7 MHz
T301	95-2858	INPUT TRANSFORMER 19 KHz
T302	95-2856	DOUBLER TRANSFORMER 19 KHz
T303	95-2757	DETECTOR TRANSFORMER 38 KHz
T401	95-2965	POWER TRANSFORMER
T1002	95-2920	FILTER CHOKE (5V XU COMBINATION POWER SUPPLY ONLY)
F301	134-17-21	1.25 AMP SLOW-BLOW FUSE
F302	134-16-16	1/8 AMP FUSE (PILOT LIGHT)
S101	95-1633	BAND SWITCH
CR1	103-47	AFC DIODE
CR201	103-90	GERMANIUM DIODE } MATCHED PAIR
CR202	103-90	GERMANIUM DIODE } MATCHED PAIR
CR203	103-23	GERMANIUM DIODE
CR204	103-23	GERMANIUM DIODE
CR205	103-23-01	GERMANIUM DIODE
CR206	103-23-01	GERMANIUM DIODE
CR301	103-23-01	GERMANIUM DIODE
CR302	103-23-01	GERMANIUM DIODE
CR501	103-74	SILICON RECTIFIER
CR502	103-74	SILICON RECTIFIER
CR503	103-96	DIODE (ZENER)
Z301	106-107	INTEGNET
Z351	106-107	INTEGNET
DS301	100-247	PILOT LIGHT #1847
DS302	100-246	PILOT LIGHT #1847
DS303	100-246	PILOT LIGHT #1847
DS301	100-507	STEREO INDICATOR LIGHT
M1	122-68 OR 122-68-03	METER (TUNING) METER (TUNING)
		MECHANICAL AND ELECTRICAL COMPONENTS

4988C2



CHASSIS 12WGR58 – CHASSIS WIRING AND COMPONENTS VIEWED FROM FOIL SIDE



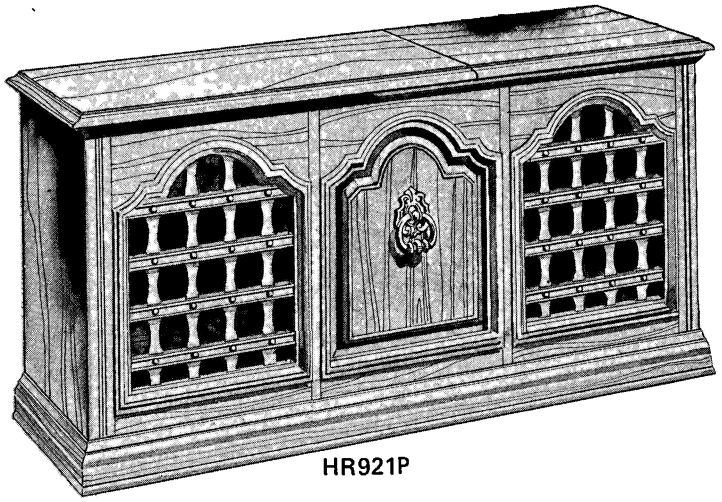
CHASSIS 35WFR50 – CHASSIS WIRING AND COMPONENTS VIEWED FROM FOIL SIDE

LEGEND CHASSIS 35WFR50

ITEM NO.	PART NUMBER	DESCRIPTION
C1A		FM ANT TRIMMER
C1B		FM ANT TUNING
C1C		FM DETECTOR TRIMMER
C1D		FM DETECTOR TUNING
C1E		AM ANT TRIMMER
C1F	22-4752	AM ANT TUNING
C1G		AM ANT TUNING
C1H		AM DETECTOR TRIMMER
C1J		AM DETECTOR TUNING
C1K		AM OSC. TRIMMER
C1L		AM OSC. TUNING
C3	22-2729	.001 MFD DISC 25V
C5	22-3675	10 PF DISC ± 5% 500V
C6	22-3393	.01 MFD DISC 25V
C7	22-3541	3.3 PF GIMMICK ± 5% 500V
C8	22-3675	10 PF DISC ± 5% 500V
C9	22-6489	2.4 PF GIMMICK ± 5% 500V
C10	22-2729	.001 MFD DISC 25V
C11	22-6344	7 PF ± .5 PF 500V
C12	22-3034	.05 MFD DISC 25V
C13	22-4855	1.7 TO 10 PF CERAMIC TRIMMER
C14	22-3393	.01 MFD DISC 25V
C15	22-2729	.001 MFD DISC 25V
C16	22-2729	.001 MFD DISC 25V
C17	22-3034	.05 MFD DISC 25V
C101	22-13	.0033 MFD DISC ± 10% 500V
C102	22-3034	.05 MFD DISC 25V
C103	22-3034	.05 MFD DISC 25V
C104	22-3034	.05 MFD DISC 25V
C105	22-6812	300 PF POLYSTYRENE ± 5% 125V
C107	22-3393	.01 MFD DISC 25V
C108	22-4819	2 PF ± .25 PF 500V
C201	22-3310	2.7 PF GIMMICK 500V
C202	22-5482	680 PF DISC 500V
C203	22-3052	1 MFD DISC 10V
C204	22-5481	560 PF DISC 500V
C205	22-3034	.05 MFD DISC 25V
C206	22-3391	39 PF DISC ± 5% 500V
C207	22-3319	2.7 PF GIMMICK 500V
C208	22-3034	.05 MFD DISC 25V
C209	22-5482	680 PF DISC 500V
C210	22-5481	560 PF DISC 500V
C211	22-3770	5.6 PF DISC ± .25 PF 500V
C212	22-3034	.05 MFD DISC 25V
C213	22-2428	1.8 PF GIMMICK 500V
C214	22-5482	680 PF DISC 500V
C215	22-3034	.05 MFD DISC 25V
C216	22-3050	.005 MFD DISC 25V
C217	22-3127	.001 MFD DISC 25V
C218	22-3127	.001 MFD DISC 25V
C219	22-3172	390 PF DISC 500V
C220	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C221	22-7151-04	10 MFD ELECTROLYTIC 15V
C222	22-14	.0047 MFD 500V
C223	22-3393	.01 MFD DISC 25V
C224	22-14	.0047 MFD 500V
C225	22-14	.0047 MFD 500V
C226	22-3391	39 PF DISC ± 5% 500V
C228	22-3060	.005 MFD DISC 25V
C229	22-3052	1 MFD DISC 10V
C230	22-5056	.02 MFD DISC 25V
C231	22-2751	20 PF ± 5% 500V
C232	22-3052	1 MFD DISC 10V
C301	22-5780	270 PF POLYSTYRENE ± 5% 500V
C302	22-5781	1000 PF POLYSTYRENE ± 5% 500V
C303	22-6246	3.3 MFD N.P. 15V
C304	22-6247	2000 PF ± 5% POLYSTYRENE 50V
C305	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C307	22-5782	2200 PF POLYSTYRENE ± 5% 500V
C308	22-3393	.01 MFD DISC 25V
C309	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C310	22-5781	1000 PF POLYSTYRENE ± 5% 500V
C311	22-3419	.0068 MFD DISC 25V
C312	22-5482	680 PF DISC 500V
C362	22-5482	680 PF DISC 500V
C401	22-3034	.05 MFD DISC 25V
C402	22-5487	.47 MFD DISC 3V
C404	22-7143	1 MFD ELECTROLYTIC 50V
C405	22-3255	330 PF DISC 500V
C406	22-6383	270 PF DISC 500V
C407	22-6862	1 MFD MYLAR 100V
C408	22-6048	.22 MFD MYLAR 50V
C409	22-5482	680 PF DISC 500V
C410	22-6862	.01 MFD MYLAR 100V
C411	22-6866	.047 MFD MYLAR 100V
C412	22-6111	1600 PF MYLAR 50V
C413	22-6232	.015 MFD MYLAR ± 20% 50V
C414	22-7143	1 MFD ELECTROLYTIC 50V
C416	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C417	22-5482	680 PF DISC 500V
C418	22-3352	560 PF DISC 500V
C419	22-7152-07	47 MFD ELECTROLYTIC 25V
C420	22-6866	.047 MFD MYLAR 100V
C421	22-7143-11	470 MFD ELECTROLYTIC 50V
C422	22-6866	.047 MFD MYLAR 100V
C451	22-3034	.05 MFD DISC 25V
C452	22-5487	.47 MFD DISC 3V
C454	22-7143	1 MFD ELECTROLYTIC 50V
C455	22-3255	330 PF DISC 500V
C456	22-6383	270 PF DISC 500V
C457	22-6862	1 MFD MYLAR 100V
C458	22-6048	.22 MFD MYLAR 50V
C459	22-5482	680 PF DISC 500V
C460	22-6862	.01 MFD MYLAR 100V
C461	22-6866	.047 MFD 100V
C462	22-6111	1600 PF MYLAR 50V
C463	22-6233	.015 MFD MYLAR ± 20% 50V
C464	22-7143	1 MFD ELECTROLYTIC 50V
C466	22-7142-03	4.7 MFD ELECTROLYTIC 25V
C467	22-5482	680 PF DISC 500V
C468	22-3352	560 PF DISC 500V
C469	22-7152-07	47 MFD ELECTROLYTIC 25V
C470	22-6866	.047 MFD MYLAR 100V
C471	22-7143-11	470 MFD ELECTROLYTIC 50V
C471	22-6866	.047 MFD MYLAR 100V
C501	22-3060	.01 MFD DISC 100V AC
C502	22-4617	.01 MFD DISC 500V
C503	22-4617	.01 MFD DISC 500V
C504	22-6413	2000 MFD ELECTROLYTIC 75V
C505	22-7141-12	1000 MFD ELECTROLYTIC 16V
C506	22-6413	2000 MFD ELECTROLYTIC 75V
R1	63-4153	220 OHM 1/4W
R2	63-4269	100K OHM 1/4W
R3	63-4177	470 OHM 20%
R4	63-1796	1.8K OHM
R5	63-1834	1.8K OHM 1/2W
R6	63-4231	12K OHM 1/4W
R7	63-1859	470K OHM 20%
R8	63-4122	33 OHM 1/4W
R9	63-4269	100K OHM 20%
R10	63-4140	82 OHM 1/4W
R11	63-4237	270K OHM 1/4W
R12	63-4256	47K OHM 1/4W
R101	63-1773	470 OHM 20%
R102	63-1791	2.7K OHM
R103	63-1810	3.9K OHM
R104	63-1834	15K OHM
R105	63-1806	3.3K OHM
R106	63-1799	2.2K OHM
R201	63-1778	680 OHM
R202	63-1761	270 OHM
R203	63-1772	470 OHM 20%
R204	63-1806	3.3K OHM
R205	63-1827	10K OHM
R206	63-1771	470 OHM
R207	63-1785	1K OHM
R208	63-1799	2.2K OHM
R209	63-1772	470 OHM 20%
R210	63-4185	1K OHM 1/4W
R211	63-1775	560 OHM
R212	63-1772	470 OHM 20%
R213	63-1778	680 OHM
R214	63-1778	680 OHM
R215	63-1813	4700 OHM
R216	63-1813	4700 OHM
R217	63-1799	2.2K OHM
R218	63-1848	100K OHM
R219	63-1827	10K OHM
R220	63-1782	1K OHM
R221	63-1834	15K OHM
R222	63-1785	1K OHM
R223	63-1904	680K OHM
R224	63-1859	470K OHM 20%
R225	63-1799	2.2K OHM
R226	63-1852	39K OHM
R227	63-1855	47K OHM
R228	63-1852	39K OHM
R229	63-1873	120K OHM
R230	63-1896	330K OHM
R231	63-1896	330K OHM
R232	63-1922	1.8M OHM
R233	63-8798	5K BIAS ADJUST
R234	63-1834	15K OHM
R235	63-1862	68K OHM
R236	63-1831	12K OHM
R237	63-1828	10K OHM 20%
R301	63-1856	47K OHM
R302	63-1917	5.6K OHM
R303	63-1764	330 OHM
R305	63-1855	47K OHM
R306	63-1764	330 OHM
R307	63-1806	3.3K OHM
R308	63-6495	100K MUTE CONTROL
R309	63-1785	1K OHM
R310	63-1782	820 OHM
R312	63-1824	8.2K OHM
R313	63-1775	560 OHM
R314	63-1778	680 OHM
R315	63-1775	560 OHM
R316	63-5663	680 OHM 2W
R318	63-1781	820 OHM 5%
R319	63-1826	10K 5%
R320	63-1788	2.2K 5%
R321	63-1826	10K 5%
R401	63-1887	270K OHM
R402	63-1862	68K OHM
R403	63-1890	330K OHM
R404	63-1845	27K OHM
R405	63-1820	6.8K OHM
R406	63-1848	33K OHM
R407	63-1813	4700 OHM
R408	63-6967-01	100K DUAL LOUDNESS CONTROL
R412	63-1845	27K OHM
R413	63-6965-01	250K DUAL BASS CONTROL
R414	63-1831	12K OHM
R415	63-6964-01	250K DUAL TREBLE CONTROL
R416	63-1918	1.5 MEG
R417	63-1810	3900 OHM
R418	63-1798	2.2K OHM
R419	63-1834	15K OHM
R420	63-1906	3.3K OHM 5%
R421	63-1872	120K OHM 5%
R422	63-1715	22 OHM
R423	63-1813	4700 OHM
R424	63-1813	4700 OHM
R425	63-1780	1200 OHM 5%
R426	63-2031	500 OHM BIAS ADJUST
R427	63-1774	560 OHM 5%
R428	63-1757	220 OHM
R429	63-1757	220 OHM
R430	63-6424	1 OHM 5W
R431	63-1862	68K 20%
R433	63-6968-01	500K BALANCE CONTROL & SW.
R434	63-1701	10 OHM
R437	63-1792	1500 OHM
R451	63-1887	270K
R452	63-1862	68K OHM
R453	63-1890	330K
R454	63-1845	27K OHM
R455	63-1820	6.8K
R456	63-1848	33K OHM
R457	63-1813	4700 OHM
R462	63-1845	27K OHM
R464	63-1831	12K
R466	63-1918	1.5 MEG
R467	63-1910	3900 OHM
R468	63-1736	68 OHM
R469	63-1834	15K OHM
R470	63-1905	3.3K OHM 5%
R471	63-1872	120K OHM 5%
R472	63-1715	22 OHM
R473	63-1813	4700 OHM
R474	63-1813	4700 OHM
R475	63-1780	1200 OHM 5%
R476	63-2031	500 OHM BIAS ADJUST
R477	63-1774	560 OHM 5%
R478	63-1757	220 OHM
R479	63-1757	220 OHM
R480	63-6424	1 OHM 5W
R484	63-1701	10 OHM
R487	63-1792	1500 OHM
R501	63-4654	820 OHM 3W
R503	63-1701	10 OHM
L1	20-3076	FM ANTENNA COIL
L2	20-3077	FM DETECTOR COIL
L3	20-1256	TRAP COIL 10.7 MHz
L4	20-3645	FM OSCILLATOR COIL
L101	6-8463	AM ANTENNA COIL ASSEMBLY
L102	149-311	FERRITE CORE SLEEVE
L103	IN T102	AM OSCILLATOR TRANS. PRI.
L104	IN T102	AM OSCILLATOR TRANS. SEC.
L105	149-311	FERRITE CORE SLEEVE
L106	IN T101	BC-RF TRANS.
L201	IN T201	1ST IF 10.7 MHz PRI.
L202	IN T201	1ST IF 10.7 MHz SEC.
L203	IN T202	1ST IF 455 KHz PRI.
L204	IN T202	1ST IF 455 KHz SEC
L206	IN T203	2ND IF 10.7 MHz PRI.
L208	IN T203	2ND IF 10.7 MHz SEC.
L207	IN T204	2ND IF 455 KHz
L209	IN T205	3RD IF 10.7 MHz PRI.
L208	IN T205	3RD IF 10.7 MHz SEC.
L210	IN T206	3RD IF 455 KHz PRI.
L211	IN T206	3RD IF 455 KHz SEC.
L212	IN T207	RATIO DETECTOR 10.7 MHz PRI.
L213	IN T207	RATIO DETECTOR 10.7 MHz TERTIARY
L214	IN T207	RATIO DETECTOR 10.7 MHz SEC.
L215	IN T204	2ND AM 455 KHz PRI.
L301	20-3090	67 KHz TRAP COIL (PREFERRED)
	S-79425	67 KHz TRAP COIL (ALTERNATE)
T101	95-2750	BC-RF TRANSFORMER
T102	95-2544	AM OSCILLATOR TRANSFORMER
T201	95-2753	FM 1ST IF 10.7 MHz
T202	95-2751	AM 1ST IF 455 KHz
T203	95-2754	FM 2ND IF 10.7 MHz
T204	95-2752	AM 2ND IF 455 KHz
T205	95-2755	FM 3RD IF 10.7 MHz
T206	95-2543	AM 3RD IF 455 KHz
T207	95-2756	FM RATIO DETECTOR 10.7 MHz
T301	95-2858	INPUT TRANSFORMER 19 KHz
T302	95-2856	DOUBLER TRANSFORMER 19 KHz
T303	95-2857	DETECTOR TRANSFORMER 38 KHz
T501	95-2920	POWER TRANSFORMER
T502	65-2920	FILTER CHOKE ONLY COMBINATION POWER SUPPLY ONLY
FS01	126-75	1/8 AMP SLOW-BLOW FUSE
FS02	126-96	1/2 AMP FUSE (PILOT LIGHT)
SW-1	63-1472	BAND SWITCH
CR1	103-47	AFC DIODE
CR201	103-50	GERMANIUM DIODE } MATCHED
CR202	103-50	GERMANIUM DIODE } PAIR
CR203	103-23	GERMANIUM DIODE
CR204	103-23	GERMANIUM DIODE
CR205	103-23	GERMANIUM DIODE
CR206	103-23	GERMANIUM DIODE
CR301	103-23	GERMANIUM DIODE
CR302	103-23	GERMANIUM DIODE
CR501	212-76	SILICON RECTIFIER
CR502	212-76	SILICON RECTIFIER
CR503	103-66	DIODE (ZENER)
Z301	105-107	INTEGNET
Z351	105-107	INTEGNET
DS1	100-249	PILOT LIGHT NO. 1847
DS2	100-249	PILOT LIGHT NO. 1847
DS3	100-249	PILOT LIGHT NO. 1847
DS301	100-807	STEREO INDICATOR LIGHT
M1	122-68 OR 122-69-03	METER (TUNING) METER (TUNING)

4879C2

CRITICAL CREDIT COMPONENT



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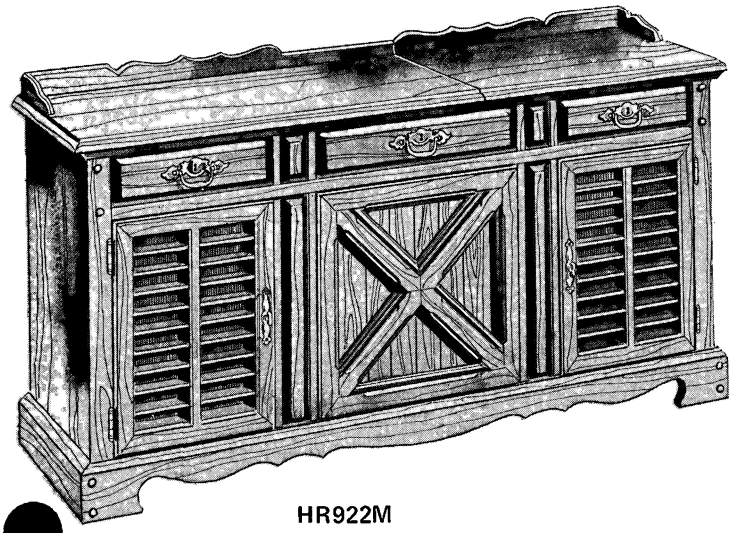

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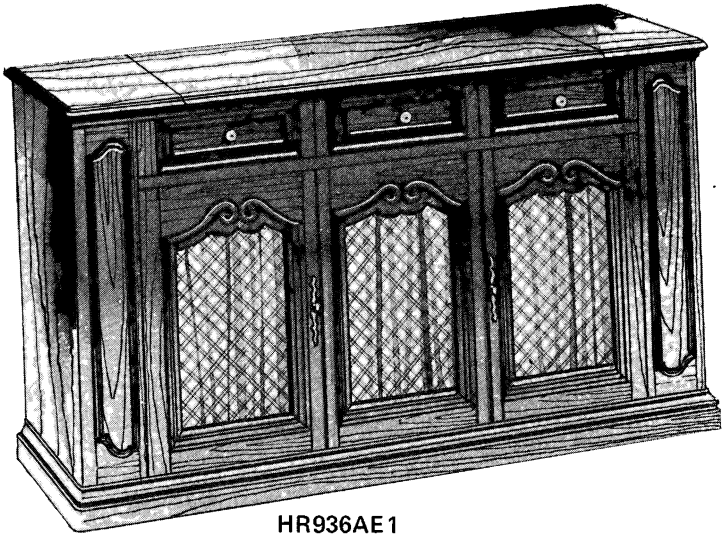

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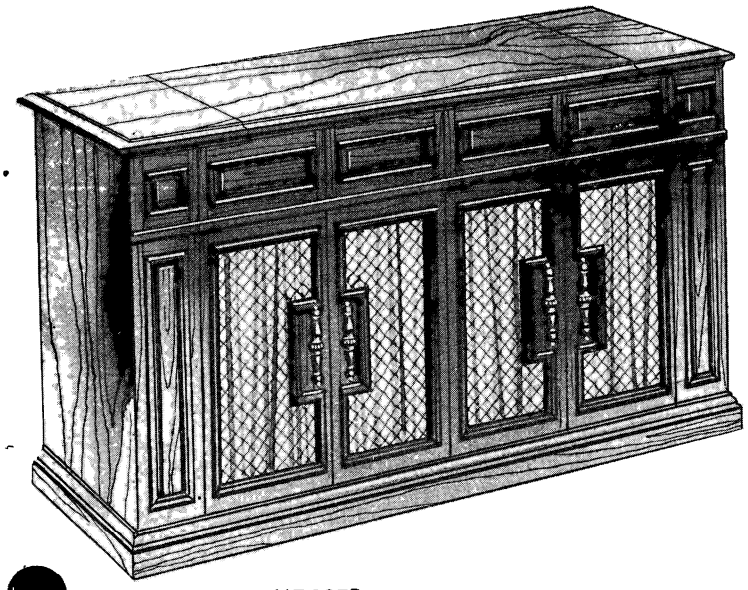

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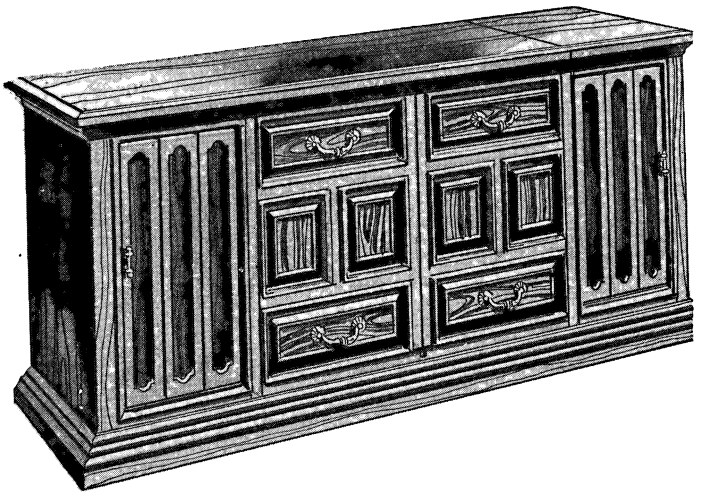

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REPRESENTATIVE MODEL ILLUSTRATIONS

HF-32S1