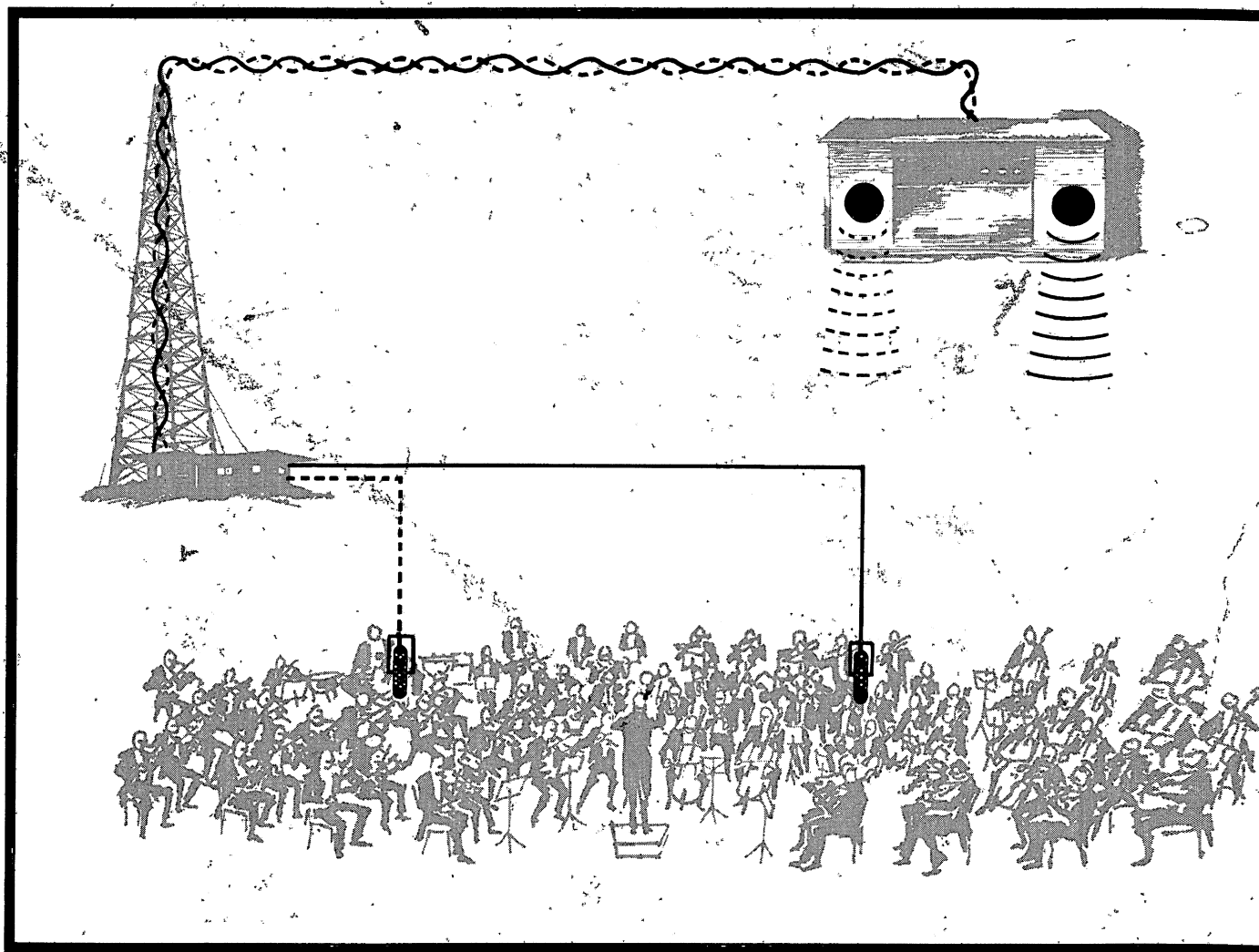


ZENITH[®]

SERVICE MANUAL



**HIGH FIDELITY
AND STEREO FM MODELS**

ZENITH RADIO CORPORATION

1900 N. AUSTIN AVENUE

CHICAGO, ILLINOIS 60639

PRICE \$2.50

HF 19

PART NO. 923-1



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FEATURES OF HIGH FIDELITY & STEREO FM MODELS

CABINET			CHASSIS			SPEAKERS		
MODEL	STYLE	COLOR	MODEL	TYPE	EIA POWER OUTPUT	PART NUMBER	VOICE COIL IMPED. (In Ohms)	SIZE (In Inches)
Y504B (Note 2) (HF-18)	Portable (W/Handle) (Lift Lid)	Blue & White	1Y20Z	Phono Only	---	49-1096	3.2	1-4
Y504D (Note 2) (HF-18)	Portable (W/Handle) (Lift Lid)	Red & White	1Y20Z	Phono Only	---	49-1096	3.2	1-4
Y504P (Note 2) (HF-18)	Portable (W/Handle) (Lift Lid)	Yellow & White	1Y20Z	Phono Only	---	49-1096	3.2	1-4
Y504V (Note 2) (HF-18)	Portable (W/Handle) (Lift Lid)	Red & White	1Y20Z	Phono Only	---	49-1096	3.2	1-4
A507F	Portable (W/Handle) (Lift Lid)	Green	3AT20	Phono Only	---	49-1184	32	1-2x6
A507L	Portable (W/Handle) (Lift Lid)	Beige	3AT20	Phono Only	---	49-1184	32	1-2x6
A507V	Portable (W/Handle) (Lift Lid)	Coral	3AT20	Phono Only	---	49-1184	32	1-2x6
B535J	Portable (W/Handle) (Lift Lid) (Detachable Speaker Enclosures)	Brown & Walnut	8BT20	Phono Only	2W	49-1189	32	2-4
B535Y	Portable (W/Handle) (Lift Lid) (Detachable Speaker Enclosures)	Black & Rosewood	8BT20	Phono Only	2W	49-1189	32	2-4
Z541W	Portable (W/Handle) (Detachable Speaker Enclosures)	Off White & Charcoal Grey	8ZT20	Phono Only	2W	49-1138	22	2-4x6
A550W-1 (Note 2) (HF-18)	Portable (W/Handle)	Walnut	W/C	Phono Only	2W	964-23069	16	2-4
Z552W (Note 2) (HF-18)	Portable (W/Handle)	Walnut	6ZT20	Phono Only	2W	49-1152	3.2	2-6x9

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

RECORD CHANGER					OTHER FEATURES			
PART NUMBER	MOUNTING	CARTRIDGE	STYLUS NOTE 1	45 RPM ADAPTER	INDICATOR LIGHT	TAPE PROVISION	RECORD STORAGE	REMOTE SPEAKER PROVISION
Manual Player	Shelf	142-161	S 56-480	—	—	—	—	—
Manual Player	Shelf	142-161	S 56-480	—	—	—	—	—
Manual Player	Shelf	142-161	S 56-480	—	—	—	—	—
Manual Player	Shelf	142-161	S 56-480	—	—	—	—	—
169-374	Shelf	142-170	D-S 56-567	S-84995 Or S-85021	—	—	—	—
169-373	Shelf	142-170	D-S 56-567	S-84995 Or S-85021	—	—	—	—
169-375	Shelf	142-170	D-S 56-567	S-84995 Or S-85021	—	—	—	—
169-389	Shelf	142-171	S-S 56-598	S-72910	—	—	—	—
169-388	Shelf	142-171	S-S 56-598	S-72910	—	—	—	—
169-360	Shelf	142-148	S-S 56-528	S-72649	—	—	—	—
169-379	Hinged Panel	142-169	S-S 56-591	S-82964	—	—	—	—
169-355	Hinged Panel	142-162	D-S 56-551	S-72649	—	—	—	—

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

CABINET			CHASSIS			SPEAKERS		
MODEL	STYLE	COLOR	MODEL	TYPE	EIA POWER OUTPUT	PART NUMBER	VOICE COIL IMPED. (In Ohms)	SIZE (In Inches)
A555W-1 (Note 2) (HF-18)	Portable (W/Handle)	Brown & Light Beige	10ZT38	Phono Only	10W	49-1167 49-979	16 45	2-6x9 2-3½
X560W-2 (Note 2) (HF-18)	Portable (W/Handle) (Hinged Speaker Enclosures)	Walnut	W/C	Phono Only	16W	964-18016 964-49189 964-16237	8 6.4 34	2-8 2-4 2-3½
A564W	Table (Lift Lid) (Circle of Sound Speakers)	Walnut	10AT37	Phono Only	16W	49-1159	16	2-4½
Z565W-1 (Note 2) (HF-18S2)	Table (Lift Lid) (Circle of Sound Speakers)	Walnut	10AT26	Phono Only	40W	49-1116	6.4	2-6
A589W	Table (Lift Lid) (Circle of Sound Speakers)	Walnut	20AT31Z	FM/AM/Phono	16W	49-1159	16	2-4½
Z590W-2	Table (Lift Lid) (Circle of Sound Speakers)	Walnut	10ZT30 11ZT27	FM/AM/Phono	50W	49-1116	6.4	2-6
B906W	Console (Lift Lid)	Walnut	20AT30Z	FM/AM/Phono	16W	49-1094 49-1153	45 16	2-3½ 2-6x9
B907M	Console (Lift Lid)	Maple	21BT30	FM/AM/Phono	20W	49-1094 49-1153	45 16	2-3½ 2-6x9
B908DE	Console (Lift Lid)	Dark Oak	21BT30	FM/AM/Phono	20W	49-1094 49-1153	45 16	4-3½ 2-6x9
B908P	Console (Lift Lid)	Pecan	21BT30	FM/AM/Phono	20W	49-1094 49-1153	45 16	4-3½ 2-6x9
B910W	Console (Lift Lid)	Walnut	21BT30	FM/AM/Phono	20W	49-1094 49-1153	45 16	4-3½ 2-6x9
B914M	Console (Lift Lid)	Maple	21BT34	FM/AM/Phono	20W	49-1094 49-1153 49-1168	45 16 8	2-3½ 2-6x9 2-Horn

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

RECORD CHANGER					OTHER FEATURES			
PART NUMBER	MOUNTING	CARTRIDGE	STYLUS NOTE 1	45 RPM ADAPTER	INDICATOR LIGHT	TAPE PROVISION	RECORD STORAGE	REMOTE SPEAKER PROVISION
169-370	Hinged Panel	142-168	D-S S-68567	S-82964	—	—	—	—
169-376	Hinged Panel	142-168	D-S S-68567	S-82964	—	—	—	—
169-369	Shelf	142-167	D-S S-82621	S-82964	—	Note 3	—	—
169-372	Shelf	142-168	D-S S-68567	S-82964	—	Note 3	—	Note 8
169-369	Shelf	142-168	D-S S-68567	S-82964	—	Note 4	—	Note 8
169-394	Shelf	142-167	D-S S-82621	S-69287	Yes	Note 4	—	Note 8
169-361	Shelf	142-164	D-S 56-560	S-82965	—	Note 4	Yes	Note 6
169-361	Shelf	142-164	D-S 56-560	S-82965	—	Note 4	Yes	Note 6
169-362	Shelf	142-168	D-S S-68567	S-82965	—	Note 4	Yes	Note 6
169-362	Shelf	142-168	D-S S-68567	S-82965	—	Note 4	Yes	Note 6
169-362	Shelf	142-168	D-S S-68567	S-82965	—	Note 4	Yes	Note 6
169-392	Shelf	142-167	D-S S-82621	S-82965	—	Note 4	Yes	Note 6

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

CABINET			CHASSIS			SPEAKERS		
MODEL	STYLE	COLOR	MODEL	TYPE	EIA POWER OUTPUT	PART NUMBER	VOICE COIL IMPED. (In Ohms)	SIZE (In Inches)
B914M-1	Console (Lift Lid)	Maple	21BT34	FM/AM/Phono	20W	49-1094 49-1153 49-1168	45 16 8	2-3½ 2-6x9 2-Horn
B916DE	Console (Lift Lid)	Dark Oak	21BT34	FM/AM/Phono	20W	49-1094 49-1216 49-1168	45 16 8	2-3½ 2-6x9 2-Horn
B916P	Console (Lift Lid)	Pecan	21BT34	FM/AM/Phono	20W	49-1094 49-1216 49-1168	45 16 8	2-3½ 2-6x9 2-Horn
B920W	Console (Lift Lid)	Walnut	21BT34	FM/AM/Phono	20W	49-1094 49-1166 49-1176	45 8 16	2-3½ 2-Horn 2-10
B923W	Console (Lift Lid)	Walnut	21BT34	FM/AM/Phono	20W	49-1094 49-1166 49-1169	45 8 16	2-3½ 2-Horn 2-8x12
B925M	Console (Lift Lid)	Maple	21BT34	FM/AM/Phono	20W	49-1094 49-1166 49-1169	45 8 16	2-3½ 2-Horn 2-8x12
B929DE	Console (Lift Lid)	Dark Oak	21BT34	FM/AM/Phono	20W	49-1094 49-1166 49-1169	45 8 16	2-3½ 2-Horn 2-8x12
B929P	Console (Lift Lid)	Pecan	21BT34	FM/AM/Phono	20W	49-1094 49-1166 49-1169	45 8 16	2-3½ 2-Horn 2-8x12
B931W (Note 2) (HF-18)	Console (Lift Lid)	Walnut	20AT21Z	FM/AM/Phono	30W	49-1094 49-1166 49-1175	45 8 10	2-3½ 2-Horn 2-10
B935P (Note 2) (HF-18)	Console (Lift Lid)	Pecan	20AT21Z	FM/AM/Phono	30W	49-1094 49-1151 49-1175	45 6.4 10	2-3½ 2-Horn 2-10
B937M	Console (Lift Lid)	Maple	27BT30	FM/AM/Phono	50W	49-1094 49-1151 49-1203	45 6.4 8	2-3½ 2-Horn 2-8x12
B939DE	Console (Lift Lid)	Dark Oak	27BT30	FM/AM/Phono	50W	49-1099 49-1151 49-1203	3.2 6.4 8	2-3½ 2-Horn 2-8x12
B940W	Console (Lift Lid)	Walnut	2AT30 9AT27 11AT30	FM/AM/Phono	50W	49-1151 49-1181	6.4 8	2-Horn 2-10
B941W	Console (Lift Lid)	Walnut	27BT30	FM/AM/Phono	50W	49-1094 49-1151 49-1203	45 6.4 8	2-3½ 2-Horn 2-8x12

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

RECORD CHANGER					OTHER FEATURES			
PART NUMBER	MOUNTING	CARTRIDGE	STYLUS NOTE 1	45 RPM ADAPTER	INDICATOR LIGHT	TAPE PROVISION	RECORD STORAGE	REMOTE SPEAKER PROVISION
169-362	Shelf	142-168	D-S S-68567	S-82965	—	Note 4	Yes	Note 6
169-392	Shelf	142-167	D-S S-82621	S-82965	—	Note 4	Yes	Note 6
169-392	Shelf	142-167	D-S S-82621	S-82965	—	Note 4	Yes	Note 6
169-392	Shelf	142-167	D-S S-82621	S-82965	—	Note 4	Yes	Note 6
169-392	Shelf	142-167	D-S S-82621	S-82965	—	Note 4	Yes	Note 6
169-392	Shelf	142-167	D-S S-82621	S-82965	—	Note 4	Yes	Note 6
169-392	Shelf	142-167	D-S S-82621	S-82965	—	Note 4	Yes	Note 6
169-392	Shelf	142-167	D-S S-82621	S-82965	—	Note 4	Yes	Note 6
169-363	Shelf	142-168	D-S S-68567	S-82965	—	Note 4	Yes	Yes
169-363	Shelf	142-168	D-S S-68567	S-82965	—	Note 4	Yes	Yes
169-399	Shelf	142-167	D-S S-82621	S-82965	—	Note 4	Yes	Yes
169-399	Shelf	142-167	D-S S-82621	S-82965	—	Note 4	Yes	Yes
169-368	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 4	—	Note 8
169-399	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 5	Yes	Note 7

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

CABINET			CHASSIS			SPEAKERS		
MODEL	STYLE	COLOR	MODEL	TYPE	EIA POWER OUTPUT	PART NUMBER	VOICE COIL IMPED. (In Ohms)	SIZE (In Inches)
B943P	Console (Lift Lid)	Pecan	27BT30	FM/AM/Phono	50W	49-1094 49-1151 49-1203	45 6.4 8	2-3½ 2-Horn 2-8x12
B947DE	Console (Lift Lid)	Dark Oak	27BT30	FM/AM/Phono	50W	49-1094 49-1151 49-1203	45 6.4 8	2-3½ 2-Horn 2-8x12
B950W	Console (Lift Lid)	Walnut	25BT22	FM/AM/Phono	100W	49-1094 49-1162 49-1171	45 6.4 6.4	4-3½ 2-Horn 2-12
B951M	Console (Lift Lid)	Maple	25BT22	FM/AM/Phono	100W	49-1094 49-1162 49-1171	45 6.4 6.4	4-3½ 2-Horn 2-12
B953DE	Console (Lift Lid)	Dark Oak	25BT22	FM/AM/Phono	100W	49-1094 49-1162 49-1171	45 6.4 6.4	4-3½ 2-Horn 2-12
B960W	Console (Lift Lid)	Walnut	6AT24 29AT24	FM/AM/Phono	160W	49-1073 49-1094 49-1190	6.4 45 6.4	2-15 4-3½ 2-Horn
B966DE	Console (Lift Lid)	Dark Oak	6AT24 29AT24	FM/AM/Phono	160W	49-1073 49-1094 49-1190	6.4 45 6.4	2-15 4-3½ 2-Horn
B966P	Console (Lift Lid)	Pecan	6AT24 29AT24	FM/AM/Phono	160W	49-1073 49-1094 49-1190	6.4 45 6.4	2-15 4-3½ 2-Horn
B8720W	Console (Lift Lid)	Walnut	27BT30 Note 9	FM/AM/Phono Color	50W	49-1204 49-1162	8 6.4	2-12 2-Horn
B8732M	Console (Lift Lid)	Maple	27BT30 Note 9	FM/AM/Phono Color	50W	49-1204 49-1162	8 6.4	2-12 2-Horn
B8734DE	Console (Lift Lid)	Dark Oak	27BT20 Note 9	FM/AM/Phono Color	50W	49-1204 49-1162	8 6.4	2-12 2-Horn
B8770P	Console (Lift Lid)	Pecan	25BT22 Note 9	FM/AM/Phono Color	100W	49-1177 49-1162 49-1094	6.4 6.4 45	2-9x15 2-Horn 2-3½

NOTES

1. Stylus, S = Manufactured Sapphire, D = Diamond.
2. Model listed for reference only. See designated service manual for further information.
3. Tape Input - May be used with the following models:
A634 - Cassette Tape Player,
A635 - Cartridge Tape Player.
4. Tape Input and Output - May be used with the following models:
A634 - Cassette Tape Player,
A635 - Cartridge Tape Player,
A636 - Cassette Tape Player/Recorder.
5. Tape Input and Output - May be used with the following models:
A632 - Cassette Tape Player/Recorder,
A634 - Cassette Tape Player,
A635 - Cartridge Tape Player,
A636 - Cassette Tape Player/Recorder.
6. Remote Speaker Adapter Kit No. S-74539 available.
7. Built-in Sound Control Center with headphone jack.
8. Headphone Jack.
9. Refer to Color Service Manuals for information other than Stereo Chassis.

FEATURES OF HIGH FIDELITY & STEREO FM MODELS

RECORD CHANGER					OTHER FEATURES			
PART NUMBER	MOUNTING	CARTRIDGE	STYLUS NOTE 1	45 RPM ADAPTER	INDICATOR LIGHT	TAPE PROVISION	RECORD STORAGE	REMOTE SPEAKER PROVISION
169-399	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 5	Yes	Note 7
169-399	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 5	Yes	Note 7
169-366	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 5	Yes	Note 7
169-366	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 5	Yes	Note 7
169-366	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 5	Yes	Note 7
169-364	Shelf	142-167	D-S S-82621	S-82718	Yes	Note 5	Yes	Note 7
169-364	Shelf	142-167	D-S S-82621	S-82718	Yes	Note 5	Yes	Note 7
169-364	Shelf	142-167	D-S S-82621	S-82718	Yes	Note 5	Yes	Note 7
169-390	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 4	Yes	Note 7
169-390	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 4	Yes	Note 7
169-390	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 4	Yes	Note 7
169-395	Shelf	142-167	D-S S-82621	S-82965	Yes	Note 4	Yes	Note 7

RECORD CHANGER FEATURES

Part No.	MFG.	Base Plate	Turntable	Part No.	MFG.	Base Plate	Turntable
169-355	(VM)	Ivory	Brown	169-373	(BSR)	Off White	Yellow
169-360	(VM)	Off White	Black	169-374	(BSR)	Off White	Yellow
169-361	(VM)	Tree Bark Brown	Light Beige	169-375	(BSR)	Off White	Yellow
169-362	(VM)	Tree Bark Brown	Light Beige	169-376	(VM)	Gold	Dark Brown
169-363	(VM)	Tree Bark Brown	Light Beige	169-379	(VM)	Black	Off White
169-364	(G)	Bronze Gold	Dark Brown	169-388	(BSR)	Light Gray	Black
169-366	(VM)	Tree Bark Brown	Light Beige	169-389	(BSR)	Off White	Dark Brown
169-368	(VM)	Black	Light Gray	169-392	(VM)	Tree Bark Brown	Light Beige
169-369	(VM)	Black	Light Gray	169-394	(VM)	White	Gray Chrome
169-370	(VM)	Gold	Black	169-399	(VM)	Tree Bark Brown	Light Beige
169-372	(VM)	White	Gray Chrome				

FM/AM ALIGNMENT PROCEDURE

MUTING CONTROL

The muting control which supplies a reverse bias voltage to the base of the 19KHz amplifier is factory adjusted, and should not require readjustment. However, if the receiver is operated in an extremely noisy area, there is a possibility that there may be noise bursts of sufficient magnitude to overcome this mute voltage. . .when this occurs, the Stereophonic FM Indicator will light up. To further cut off the 19KHz amplifier, carefully rotate the muting control in a clockwise direction. This should only be done when a stereo signal is on the air since the mute control must only be advanced to a point where the Stereo Indicator does not light up on noise, but it should not be advanced to a point where the desired stereo signal is cut off.

More precise adjustment of the mute control can be made by using the SPTE-1 multiplex generator. This procedure is described in the multiplex alignment procedure included in this manual.

MULTIPLEX ALIGNMENT

These receivers have been properly aligned at the factory and will not require further adjustment. As a result, it is not recommended that any attempt be made to alter the multiplex stages. However, should any major components in these circuits require replacement or should anyone tamper with the multiplex adjustments then, of course, realignment will be necessary.

Zenith has designed and manufactured an SPTE-1 Multiplex Generator that can be used to properly align the multiplex portion of these receivers. The multiplex alignment procedure is included in later pages of this manual. The SPTE-1 Multiplex Generator is available at your Zenith Distributor.

ANTENNAS FOR STEREO FM

Due to the characteristics of the stereo FM system, it will require more signal for proper performance than does monaural FM. As a result, it may be necessary to operate the stereo FM receiver with an external antenna. The necessity for an external antenna will be determined by the signal conditions at each individual installation.

EXTERNAL FM ANTENNA

If the receiver is operated in an area of either low signal strength, high noise, or where multipath (FM ghosts) signals are present, a good external FM antenna will be required. The necessity of an external antenna as a result of weak signal or noise, will be quite evident since the set will not limit, and/or noise will be quite evident. It is extremely difficult to determine if multipath (FM ghosts) signals are present, however, should the program material be distorted, the best manner to decide if multipath signals are the cause of the

problem, is to connect an external FM antenna to the receiver. Usually a TV antenna may be available for trial, but even then the results can be misleading, since many TV antennas are of low gain on FM frequencies.

CABINET FM ANTENNA

All models except the A589, Z590, B906 and B907 contain an FM antenna built into the cabinet. This antenna is a folded dipole cut to the desired frequency, and is attached to the internal periphery of the cabinet. The A589, Z590, B906 and B907 use line cord antennas.

SIGNAL STRENGTH CHART

There are certain minimum voltages necessary for proper stereo FM reception. To help determine if there is sufficient signal available, the following developed AGC voltage versus microvolt input voltage charts have been compiled. Since the desired FM Station may not always be operating in the stereo mode when an installation is made, these AGC voltage measurements have been taken with a monaural FM signal. The point "*" of minimum AGC voltage necessary for good stereo FM reception has been indicated on these charts.

AGC voltages are to be measured with a V.T.V.M. connected to the following Test Points.

Chassis 10ZT30 and 11AT30 - Test Point "C". Junction of 3.9K resistor and diode on top of FM Tuner.

Chassis 20AT30Z, 20AT31Z, 21BT30, 21BT34 and 27BT30, Test Point "C". Located between Transistors Q101 (A.M. Converter) and Q201 (1ST. I.F.).

Chassis 25AT20, 25BT22 and 29AT24 - Test Point "C" RF amplifier AGC Feed Thru on FM Tuner.

Chassis 10ZT30 and 11AT30

Micro Volts Input	Reverse AGC Voltage at Test Point "C"
0	1.35
25	1.21
100	.96
200	.85
500	.77
1K	* .73
5K	.66
50K	.61
100K	.58

**Chassis 20AT30Z, 20AT31Z, 21BT30,
21BT34, and 27BT30**

Micro Volts Input	Reverse AGC Voltage at Test Point "C"
0	1.34
25	1.23
100	0.91
200	0.82
500	0.73
1K	*0.70
5K	0.58
50K	0.10
100K	0.06

Chassis 25AT20 and 25BT22

Micro Volts Input	AGC Voltage At 1st I.F. (See Note)
0	1.20
25	1.12
100	.88
200	.76
500	.64
1K	*.58
5K	.49
50K	.37
100K	.25

Chassis 29AT24

Micro Volts Input	AGC Voltage At 1st I.F. (See Note)
0	1.50
25	1.40
100	1.10
200	.95
500	.80
1K	*.75
5K	.65
50K	.52
100K	.40

Note - AGC voltage for chassis 25AT20, 25BT22 and 29AT24 is read across the 820 ohm resistor connected from the 1st I.F. emitter to the "B-" (-12.4V). Refer to AGC Adjustments.

AGC ADJUSTMENTS

Chassis 25AT20 and 25BT22 - Adjust AGC control so that under no signal conditions a voltage of 1.2 volts is measured across the 820 ohm resistor connected from 1st IF emitter to "B-" (-12.4V) when in AM.

Chassis 29AT24 - Adjust AGC control so that under no signal conditions a voltage of 1.1 volts is measured across the 820 ohm resistor connected from 1st IF emitter to "B-" (-12.4V) when in AM.

AUTOMATIC FREQUENCY CONTROL-AFC

These receivers feature an automatic frequency control which automatically keeps your receiver on the exact station frequency when you are tuned to an FM station. To utilize this feature tune the receiver as instructed and then turn the band switch to AFC position.

When the desired FM station is a weak station, adjacent in frequency to a strong station, the AFC may pull the tuning into the stronger station. Under these conditions, place the bandswitch in FM position and tune the receiver as instructed.

Tuning the receivers on the frequency modulation band will require more care than on the broadcast band. A hissing sound may be noted when tuning between Frequency Modulation stations. This is normal, and will disappear as the station is tuned in. After a station is located, the pointer should be moved back and forth over it until the point of quietest reception and best tone quality is found. Correct tuning is indicated by the disappearance of background noise.

SPEAKER PHASING

It is most important that coded speaker leads be connected to coded terminals on speakers for proper polarity within each speaker group. It is also then most important that the speaker groups be in phase with each other. One excellent method is to play a monaural record with the volume of each speaker group equal.

Under these conditions the sound should appear to come from a point midway between the two speaker groups. If the sound comes from any other point than midpoint, then one speaker group is out of phase with the other and you should check polarity. One of the easiest methods of checking polarity within the speaker group is to momentarily place a 4½ volt battery across the speaker feed terminals. All the speaker cones should simultaneously move in the same direction.

POWER AMPLIFIERS

Power transistors and their circuits are unique in operation, therefore, repair procedure differs from those steps followed when repairing tube type-circuits.

1. Each channel of the 3AT20, 6AT24, 8BT20, 8ZT20, 9AT27, 10AT37, 11ZT27, 20AT30Z, 20AT31Z, 21BT30, 21BT34, 25AT20, 25BT22 and 27BT30 amplifiers use a pair of matched power transistors in the final output stage. Therefore, should one transistor fail, both transistors must be replaced simultaneously, since they will not perform properly unless matched. (In chassis using complementary symmetry circuits a matched pair consists of one NPN and one PNP transistor.)

2. When a power transistor is replaced the insulator (when used) between the transistor and the heat sink should also be replaced. On chassis 6AT24, 9AT27, 11ZT27, 25AT20 and 25BT22 be certain to apply Dow Corning No. 340 heat conductive grease between the transistor and the insulator. Also between the insulator and the chassis. The Dow Corning grease can be obtained in 1 c.c. quantities by ordering part No. 205-51.
3. On chassis 8BT20 and 8ZT20 place the heat conductive grease in the clamp or the chassis, and all around the transistor.
4. Do not operate these amplifiers without their proper speaker load.
5. Do not short out the audio output of either channel when the amplifier is operating.
6. Should a power transistor fail (short) be certain to replace the emitter resistors for the specific channel. Also be certain to check the condition of the silicon diode rectifiers.
7. Remove plug-in transistors from their sockets before doing any soldering to the socket lugs.

CIRCUIT BOARD COMPONENT IDENTIFICATION

As a special feature to aid the Service Technician, Zenith has identified the location of components which are mounted on certain circuit boards. This information is printed on the circuit boards and also appears on the schematic. Zenith has also prepared a two-color drawing of the foil side of the circuit board showing the relationship between the components and the foil. This will aid the Technician in quickly tracing circuits, as not only are the components shown, but also the voltages at various check points. Components are identified by a letter/number combination. A letter prefix to indicate the type of component: C=Capacitor, L=Coil, R=Resistor, CR=Diode, etc. The numbers are assigned in blocks to identify the circuit, in which it is used, as follows.

Block	Stage	Example
1 - 99	FM Tuner	R1, C1, L1.
101 - 199	AM Tuner	R101, C101, L101.
201 - 299	IF	R201, C201, L201.
301 - 399	Multiplex	R301, C301, L301.
401 - 449	Audio, Right Channel	R401, C401, L401.
451 - 499	Audio, Left Channel	R451, C451, L451.
501 - 599	Power Supply	R501, C501, L501.
601 - 699	Switching Circuits	R601, C601, L601.

CIRCUIT BOARD SERVICING

Servicing circuit board sets is, in general, much the same as servicing ordinary receivers. However, certain tools and techniques are helpful for this type of work.

1. Good pair of long-nose pliers.
2. Sharp wire cutters.
3. Small stiff glue brush (for solder removal).
4. Metal pick (soldering aid).

5. Pencil type soldering iron with a small tip (25 watts or less).
6. Tin leads on component before soldering.
7. Use only solder with an extremely low melting point, (60% Tin, 40% Lead).

WARNING: Excessive heat may damage the circuit board foil during component replacement if a soldering pencil, iron or gun of higher wattage rating is used.

COMPONENT REPLACEMENT

Resistors and capacitors should be replaced by clipping out the defective part and neatly soldering in the new part. If a unit, such as the oscillator coil or I.F. transformer is to be removed, heat the mounting lugs with a pencil type soldering iron and move them away from the soldered connection with a long-nose pliers or metal pick. Continue heating the lugs and brush away the molten solder with a small stiff glue brush. Remove the defective unit before lifting it off the chassis. Before inserting the new unit, be certain that the lug holes are open and free from solder. Forcing a lug against a solder filled lug hole may break the bond between the chassis base and the wiring foil. It is, therefore, necessary to exercise care when replacing units.

An open or damaged section of circuit board wiring foil can be repaired by soldering a short jumper wire across the points to be connected. When soldering the low voltage electrolytics, transistors and diodes, the wire should be held with a pair of long nose pliers. The long nose pliers will act as a heat sink.

SIGNAL TRACING

A technique used in radio commonly known as "Screw driver testing" in which the B plus at the plate of the tube or collector of a transistor is shorted to ground to check for "clicks" in the speaker, is definitely not recommended. This practice would be comparable to shorting the collector of a transistor to ground which could damage the transistor. Standard point to point signal checking with the proper RF, IF and audio signals, should only be used.

RESISTANCE MEASUREMENTS

When making resistance measurements in the circuit, it is most important to remove any transistors in the circuit under test for accuracy in readings. Incorrect or inaccurate resistance measurements are the result of a transistor acting as a diode and conducting.

When making measurements across an electrolytic capacitor, be certain the ohm meter leads are correctly polarized. Also, be certain the battery voltage of the meter does not exceed the working voltage of the capacitor; the capacitor may otherwise be damaged.

FM, RF, AND IF ALIGNMENT

Alignment of these chassis will, in most cases, not be necessary unless an RF or IF transformer is replaced or if someone has tampered with the adjustment.

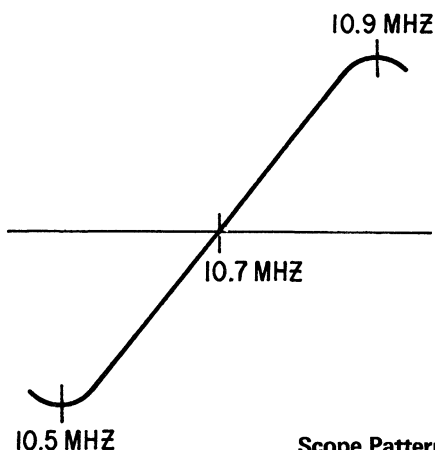
Because of the wide band pass required in the multiplex FM tuner, it is desirable to use an FM signal generator having a deviation of 400 KHz with a sweep rate of 60 cycles as well as an oscilloscope when aligning both the IF and RF FM portions of this receiver. It is not only necessary to obtain maximum amplitude in the IF amplifier stages, but also necessary to maintain symmetry. To help achieve this symmetry, it is desirable to have 10.6, 10.7 and 10.8 megacycle markers in obtaining IF curve symmetry.

The condenser mentioned further on in the alignment procedure should be as small as possible and the ground lead of the generator must be connected to the chassis at the base of the socket, where the signal is being injected. Should the signal be injected at some point other than a socket, then the ground lead should be connected to ground as closely as possible to this point.

In all alignment procedures, the signal generator output should be kept just high enough to obtain an indication. This is most necessary, since on some chassis we have a zero time constant limiter which will clip the signals if their magnitude is too great, resulting in erroneous waveforms.

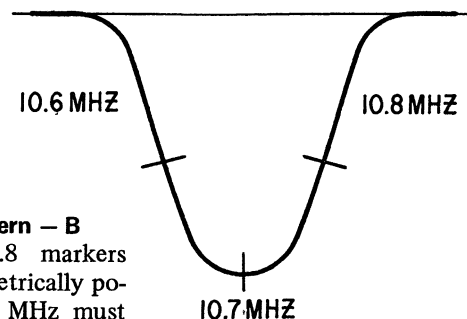
In the following alignment procedure charts there is a letter appearing in the operation column in addition to the number. This letter indicates the test point to which the hot lead of the scope is to be connected as follows:

- A. Connect to Ratio Detector Test Point "H"
- B. Connect to the last FM IF Test Point "G" ("G2" on chassis 10ZT30)



Scope Pattern — A

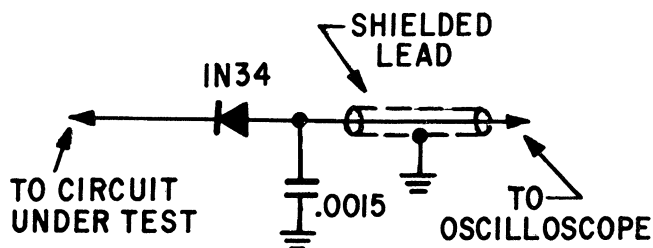
Adjust for maximum amplitude and maintain linearity and symmetry. 10.7 MHz must be on curve at base line.



Scope Pattern — B

10.6 and 10.8 markers must be symmetrically positioned. 10.7 MHz must be at center of curve. This point must be adjusted for maximum.

A detector probe is required. If your oscilloscope is not equipped with this probe, it can easily be constructed. For best results, this probe should be shielded.



Simplified Circuit Diagram of Detector Probe.

AM ALIGNMENT

- C. A V.T.V.M. on low AC scale connected across the speaker voice coil output terminals (either left or right channel), will be satisfactory for all AM, IF and RF adjustments.

Normally the Oscillator, RF and Mixer Coils and Transformers will not require adjustment unless they have been replaced or misaligned. If alignment becomes necessary the Oscillator Coil should be adjusted at 535 KHz with the tuning gang closed. Adjust the RF and Mixer Transformers at 600 KHz. These adjustments should be made after the corresponding trimmer adjustment shown in the alignment charts. Repeat the corresponding coil and trimmer adjustments for best results.

RF AN IF ALIGNMENT PROCEDURE FOR CHASSIS 10ZT30 AND 11AT30

OPERATION *	CONNECT OSCILLATOR TO	DUMMY ANTENNA	INPUT SIGNAL FREQUENCY	BAND	SET DIAL TO	ADJUST	PURPOSE
1 C	One turn loosely coupled to all wavemagnet		455 KHz 400 Hertz Modulated	BC	600 KHz	L203,L204, L207,L210	Align IF channel for maximum output
2 C			1600 KHz 400 Hertz Modulated	BC	1600 KHz	C101D	Set oscillator to dial scale
3 C			600 KHz	BC	600 KHz	L103	
4 C		Repeat Procedures #2 & 3					
5 C			1500 KHz 400 Hertz Modulated	BC	1400 KHz	C101A	Align antenna stage
6 A	Term. #3 of T205 3rd IF Trans. Test Point "G1"	47 ohm in shunt with gen. output. Then from hot lead a 27 ohm in series with a .001 MFD capaci- tor.	10.7 MHz 400 KHz Deviation	FM	88 MHz	L212	Adjust Primary and Secondary of ratio detector for maximum amplitude and symmetry, as shown in Scope Pattern "A"
7 A			10.7 MHz 400 KHz Deviation	FM	88 MHz	L214	
8 B	Term. #3 of T203 2nd IF Trans. Test Point "F"		10.7 MHz 400 KHz Deviation	FM	88 MHz	L208 & L209	Align I.F. transformers for maximum output and symmetry. This pattern is not necessary identical to the overall Scope Pattern "B"
9 B	Term. # 3 of T201 1st IF Trans. Test Point "E"		10.7 MHz 400 KHz Deviation	FM	88 MHz	L205 & L206	
10 B	Connect to Test Point #D. Junction of R6 1.8K, R7 12K & C9 Feed Thru Condenser on FM Tuner.		10.7 MHz 400 KHz Deviation	FM	88 MHz	L201 & L202	
11 B			10.7 MHz 400 KHz Deviation	FM	88 MHz	Readjust L201,L202, L205,L206, L208 & L209	Align I.F. transformers for maximum output and symmetry as indicated in Scope Pattern "B"
12 B	FM Antenna Post (Remove Antenna) Test Point "A"	300 ohm	98 MHz 400 KHz Deviation	FM	98 MHz	L4	Set oscillator to Dial Scale.
13 B	FM Antenna Post (Remove Antenna) Test Point "A"	300 ohm	98 MHz 400 KHz Deviation	FM	98 MHz	L2	Align FM Detector stage for maximum.

*For A, B, C See Pages 12 & 13

RF AND IF ALIGNMENT PROCEDURE FOR CHASSIS 20AT30Z, 20AT31Z, AND 21BT30

OPERATION *	CONNECT GENERATOR TO	DUMMY ANTENNA	INPUT SIGNAL FREQUENCY	BAND	SET DIAL TO	ADJUST	PURPOSE
NOTE: For AM Alignment Use A Signal With 400 Hertz Modulation							
1 C	One turn loosely coupled to wavemagnet		455 KHz	BC	600 KHz	L203, L204, L207, L210	Align IF channel for maximum output
2 C			1600 KHz	BC	1600 KHz	C1G	Set oscillator to dial scale
3 C			600 KHz	BC	600 KHz	L103	
4 C			Repeat Operations No. 2 & 3				
5 C			1500 KHz	BC	1400 KHz	C1D	Align antenna stage
NOTE: For FM Alignment Use A Signal With 400 KHz Deviation							
6 A	Term. No. 5 of T205 3rd IF Trans. Test Point "G"	47 ohm in shunt with gen. output. Then from hot lead a 27 ohm in series with a .001 MFD capacitor.	10.7 MHz	FM	Gang Closed	L212	Adjust Primary and Secondary of ratio detector for maximum amplitude and symmetry, as shown in Scope Pattern "A"
7 A			10.7 MHz	FM	Gang Closed	L214	
8 B	Term. No. 3 of T203 2nd IF Trans. Test Point "F"		10.7 MHz	FM	Gang Closed	L208 & L209	Align I.F. transformers for maximum output and symmetry. This pattern is not necessarily identical to the overall Scope Pattern "B"
9 B	Term. No. 3 of T201 1st IF Trans. Test Point "E"		10.7 MHz	FM	Gang Closed	L205 & L206	
10 B	Connect to Test Point "D"		10.7 MHz	FM	Gang Closed	L201 & L202	
11 B			10.7 MHz	FM	Gang Closed	Readjust L201, L202, L205, L206, L208 & L209	Align I.F. transformers for maximum output and symmetry as indicated in Scope Pattern "B"
NOTE: In Steps 10B and 11B Generator ground Must Be Connected On Braid As Close To Gang As Possible							
12 B	FM Antenna Post (Remove Antenna) Test Point "A"	300 ohm	106 MHz	FM	106 MHz	C13	Set oscillator to dial scale
13 B			90 MHz	FM	90 MHz	L4	
14 B			Repeat Operations 12 B and 13 B				Align FM Detector stage for maximum
15 B			106 MHz	FM	106 MHz	C1A	
16 B			90 MHz	FM	90 MHz	L2 if necessary	
17 B			Repeat Operations 15 B and 16 B				

* For A, B, C See Pages 12 & 13

RF AND IF ALIGNMENT PROCEDURE FOR CHASSIS 21BT34 AND 27BT30

OPERA- TION *	CONNECT GENERATOR TO	DUMMY ANTENNA	INPUT SIGNAL FREQUENCY	BAND	SET DIAL TO	ADJUST	PURPOSE
NOTE: For AM Alignment Use A Signal With 400 Hertz Modulation							
1 C	One turn loosely coupled to wavemagnet		455 KHz	BC	600 KHz	L203, L204, L207, L210	Align IF channel for maximum output
2 C			1600 KHz	BC	1600 KHz	C1G	Set oscillator to dial scale
3 C			600 KHz	BC	600 KHz	L103	
4 C			Repeat Operations No. 2 & 3				
5 C			1500 KHz	BC	1400 KHz	C1D	Align antenna stage
NOTE: For FM Alignment Use A Signal With 400 KHz Deviation							
6 A	Term. No. 5 of T205 3rd IF Trans. Test Point "G"	47 ohm in shunt with gen. output. Then from hot lead a 27 ohm in series with a .001 MFD capaci- tor.	10.7 MHz	FM	Gang Closed	L212	Adjust Primary and Secondary of ratio detector for maximum amplitude and symmetry, as shown in Scope Pattern "A"
7 A			10.7 MHz	FM	Gang Closed	L214	
8 B	Term. No. 3 of T203 2nd IF Trans. Test Point "F"		10.7 MHz	FM	Gang Closed	L208 & L209	
9 B	Term. No. 3 of T201 1st IF Trans. Test Point "E"		10.7 MHz	FM	Gang Closed	L205 & L206	Align I.F. transformer for maximum output and symmetry. This pattern is not necessarily identical to the overall Scope Pattern "B"
10 B	Connect to Test Point "D"		10.7 MHz	FM	Gang Closed	L201 & L202	
11 B			10.7 MHz	FM	Gang Closed	Readjust L201, L202, L205, L206, L208 & L209	Align I.F. transformer for maximum output and symmetry as indicated in Scope Pattern "B"
NOTE: In Steps 10B and 11B Generator ground Must be Connected On Braid As Close To Gang As Possible							
12 B	FM Antenna Post (Remove Antenna) Test Point "A"	300 ohm	106 MHz	FM	106 MHz	C13	Set oscillator to dial scale
13 B			90 MHz	FM	90 MHz	L4	Align FM Detector stage for maximum
14 B			Repeat Operations 12 B and 13 B				
15 B			106 MHz	FM	106 MHz	C1A	
16 B			90 MHz	FM	90 MHz	L2 if necessary	Align FM Antenna stage for maximum
17 B			106 MHz	FM	106 MHz	C1H	
18 B			90 MHz	FM	90 MHz	L1 if necessary	
19 B			Repeat Operations 15 B thru 18 B				

* For A, B, C See Pages 12 & 13

RF AND IF ALIGNMENT PROCEDURE FOR CHASSIS 25AT20 AND 25BT22

OPERATION *	CONNECT GENERATOR TO	DUMMY ANTENNA	INPUT SIGNAL FREQUENCY	SET DIAL TO	ADJUST IRON CORES	PURPOSE
1 A	Term. #4 of T205 4th IF Trans.	47 ohm in shunt with gen. output. Then from hot lead a 27 ohm in series with a .001 MFD capacitor.	10.7 MHz 400 KHz Deviation	88 MHz	L213	Adjust Primary and Secondary of ratio detector for maximum amplitude and symmetry as shown in Scope Pattern "A"
2 A	Term. #4 of T205 4th IF Trans.		10.7 MHz 400 KHz Deviation	88 MHz	L214	
3 B	Term. #4 of T203 4th IF Trans. Test Point "F"		10.7 MHz 400 KHz Deviation	88 MHz	L211, L212	
4 B	Term. #4 of T201 2nd IF Trans. Test Point "E"		10.7 MHz 400 KHz Deviation	88 MHz	L207, L208	Align I.F. transformers for maximum output and symmetry. This pattern is not necessarily identical to the overall Scope Pattern "B"
5 B	Connect to emitter of Q2 Mixer Test Point #K		10.7 MHz 400 KHz Deviation	88 MHz	L9, L10	
6 B	Connect to emitter of Q2 Mixer Test Point #K		10.7 MHz 400 KHz Deviation	88 MHz	L5, L6	
7 B	Connect to emitter of Q2 Mixer Test Point #K		10.7 MHz 400 KHz Deviation	88 MHz	Readjust L5, L6, L203, L204, L207, L208, L211, L212	Align I.F. transformers for maximum output and symmetry as indicated in Scope Pattern "B"
8 B	FM Antenna Post (Remove Antenna)	300 ohm	98 MHz 400 KHz Deviation	98 MHz	L7	
9 B	FM Antenna Post (Remove Antenna)	300 ohm	98 MHz 400 KHz Deviation	98 MHz	L3, L2, L1	
10 C	Base of Q101	.05 in series with hot lead of gen.	455 KHz 400 Hertz Modulated	600 KHz	L102, L103, L205, L206, L209, L210	Align AM IF for maximum.
11 C	Two turn loop loosely coupled to wave-magnet		1600 KHz 400 Hertz Modulated	1600 KHz	C101E	Set oscillator to dial scale.
12 C	Two turn loop loosely coupled to wave-magnet		1400 400 Hertz Modulated	1400 KHz	C101D, C101A	Align detector and antenna stages.

* For A, B, C See Pages 12 & 13

Refer to page 11 for AGC adjustment

RF AND IF ALIGNMENT PROCEDURE FOR CHASSIS 29AT24

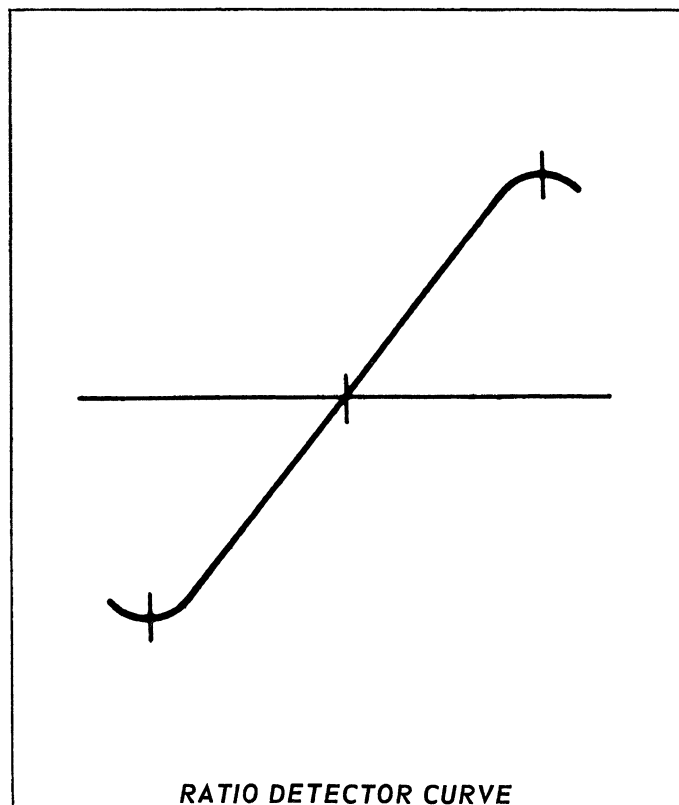
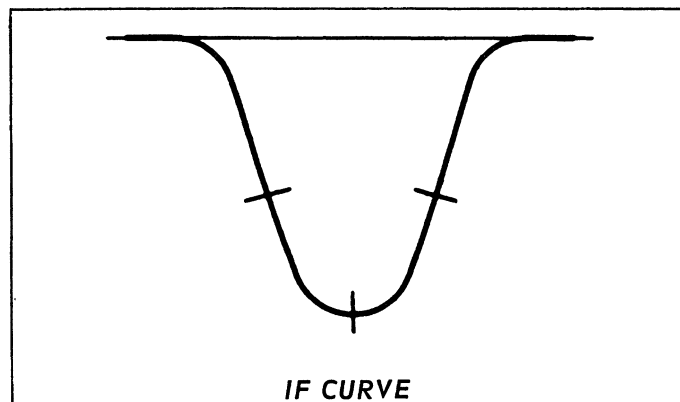
OPERATION *	CONNECT GENERATOR TO	DUMMY ANTENNA	INPUT SIGNAL FREQUENCY	SET DIAL TO	ADJUST IRON CORES	PURPOSE
1 A	Term. #3 of T205 4th IF Trans.	47 ohm in shunt with gen. output. Then from hot lead a 27 ohm in series with a .001 MFD capaci- tor.	10.7 MHz 400 KHz Deviation	88 MHz	L212	Adjust Primary and Secondary of ratio detector for maximum amplitude and symmetry as shown in Scope Pattern "A"
2 A	Term. #3 of T205 4th IF Trans.		10.7 MHz 400 KHz Deviation	88 MHz	L214	
3 B	Term. #3 of T203 3rd IF Trans. Test Point "F"		10.7 MHz 400 KHz Deviation	88 MHz	L 210, L211	Align I.F. transformers for maximum output and symmetry. This pattern is not necessarily identical to the overall Scope Pattern "B"
4 B	Term. #3 of T201 2nd IF. Trans. Test Point "E"		10.7 MHz 400 KHz Deviation	88 MHz	L206, L207	
5 B	Connect to emitter of Q2 Mixer Test Point #K		10.7 MHz 400 KHz Deviation	88 MHz	L202, L203	
6 B	Connect to emitter of Q2 Mixer Test Point #K		10.7 MHz 400 KHz Deviation	88 MHz	L5, L6	Align I.F. transformers for maximum output and symmetry as indicated in Scope Pattern "B"
7 B	Connect to emitter of Q 2 Mixer Test Point #K		10.7 MHz 400 KHz Deviation	88 MHz	Readjust L5, L6, L202, L203, L206, L207, L210, L211	
8 B	FM Antenna Post (Remove Antenna)	300 ohm	98 MHz 400 KHz Deviation	98 MHz	L7	Set oscillator to Dial Scale.
9 B	FM Antenna Post (Remove Antenna)	300 ohm	98 MHz 400 KHz Deviation	98 MHz	L3, L2, L1	Align RF output, RF input and FM Antenna stages for maximum.
10 C	Base of Q101	.05 in series with hot lead of gen.	455 KHz 400 Hertz Modulated	600 KHz	L108, L109, L204, L205, L208, L209	Align AM IF for maximum..
11 C	Two turn loop loose- ly coupled to wave- magnet		1600 KHz 400 Hertz Modulated	1600 KHz	C101E	Set oscillator to dial scale.
12 C	Two turn loop loose- ly coupled to wave- magnet		1400 KHz 400 Hertz Modulated	1400 KHz	C101B, C101D	Align detector and antenna stages.

Refer to page 11 for A.G.C. adjustment

*For A, B, C See Pages 12 & 13

MULTIPLEX ALIGNMENT PROCEDURE

Using the Zenith FM multiplex signal generator, the multiplex portion of Zenith or any FM multiplex receiver can be aligned, but first before any attempt is made to do this it is necessary that the technician be certain that the RF, IF, and ratio detector alignment is correct, and that the receiver operates normally on monaural signals.



Because of the wide band pass required in the multiplex FM receiver, it is desirable to use an FM signal generator having a deviation of at least 200 KHz with a sweep rate of 60 hertz, as well as an oscilloscope. During the IF and ratio detector alignment it is not only necessary to obtain maximum gain, but also extremely important to maintain symmetry.

To help achieve this IF curve symmetry 10.6 and 10.8 megahertz markers must be symmetrically positioned and the 10.7 megahertz marker must be at the center of the curve. When aligning the ratio detector 10.5 and 10.9 megahertz markers are desirable to achieve S curve symmetry. The pattern illustrating marker use to obtain S curve symmetry indicates it is most necessary to adjust for maximum gain and at the same time maintain linearity and symmetry. 10.7 megahertz must be on the curve at the reference line. 10.5 megahertz and 10.9 megahertz must be at the lower and upper turn of the S curve respectively. Only when the I.F. and ratio detector circuitry have been aligned in accordance with these specifications should the technician proceed to align the multiplex portion of the receiver.

Preliminary Procedures

Before using the Zenith FM multiplex signal generator, it is recommended that it be connected to the power source and turned on giving it a 10 to 20 minute warmup period. This will allow ample time for the RF, audio, and 19KHz oscillators to stabilize.

The following procedure is only necessary when the generator has been received from the factory, or has been subjected to a great deal of handling or transportation vibration. Although the 19KHz pilot generator oscillator is extremely stable, there is always the possibility that it could shift from its precisely assigned frequency. As a result, we have a very simple method to check the 19KHz pilot frequency using an FM multiplex receiver and an FM multiplex station as a frequency standard. Proceed as follows:

1. Tune your FM multiplex receiver to an FM multiplex station and when the pilot indicator lights up, this indicates the 19KHz pilot amplifier is functioning. Since the 19KHz sine wave is from the transmitter it must be on frequency and can be used as a reference standard. With a cable connect the collector output of the 19KHz amplifier to the vertical input of a good oscilloscope.
2. On the multiplex generator set the pilot carrier amplitude control to 10%. Place L-R, L+R and 67KHz switches in OFF position and connect the composite output terminal directly to the horizontal input of the oscilloscope. On the oscilloscope you will see an oval Lissajous figure which should be motionless when the 19KHz output of the generator is synchronized with the 19KHz signal from the transmitter. Should the Lissajous figure rotate it will only be necessary to adjust the pilot carrier frequency trimmer on the multiplex generator with an IF alignment wrench until the Lissajous figure ceases to rotate. After the generator has been adjusted to zero beat, disconnect all cables.

The multiplex generator provides a composite multiplex signal as well as an RF signal, FM modulated by the composite multiplex signal.

The composite signal is very useful since it is an excellent tool that can be used in signal tracing the multiplex portion of the receiver. We do not recommend that multiplex alignment be made using only the composite signal injected at the output terminal of the ratio detector tertiary winding, since there is always some phase shift occurring in the RF, IF or ratio detector circuits. As a result, multiplex alignment made by a signal injected at the ratio detector would not be correct. For proper multiplex alignment the composite signal must FM modulate the RF carrier and then be fed into the FM antenna terminals. With the signal injected in this manner the multiplex alignment would then be the best that could possibly be obtained and separation would be the maximum for this receiver.

The RF carrier in this generator is variable from 88 to 108MHz. The RF signal should be injected at a point in the FM band where no other signal is present. If at all possible this should be at a frequency near the middle of the FM band. Tune the FM receiver to this point and adjust the RF frequency adjusting slug on the generator to this same frequency. The AGC voltage developed in the receiver should be maximum. AGC voltage substantially less than this will indicate the RF frequency adjusting slug is tuned to an image.

67KHz Trap Adjustment (Chassis 29AT24)

1. Connect the stereo generator RF leads to the G and F FM antenna terminals and set the pilot carrier control to zero.
2. Move L + R and L - R switches to OFF position.
3. Move 67KHz generator switch from OFF position up to 67KHz.
4. Connect the V.T.V.M. (AC scale) and/or scope to the Composite Amplifier Transistor, Test Point "M" and chassis ground.
5. Adjust 67KHz trap for minimum output.
6. Move 67KHz generator switch to OFF position.

19KHz Sub Carrier Amplifier, Doubler and Mute Adjustments

1. Turn generator 19KHz pilot carrier amplitude control to 10% position.
2. Connect the V.T.V.M. (DC scale) and/or scope to the junction of the two frequency doubling diodes and chassis (test point "N").
3. Place the stereo-monaural switch in stereo position and short Test Point "T" to ground.
4. Adjust the 19KHz amplifier transformer and the doubler transformer for maximum output. Simultaneously adjust the mute control so the voltage at the junction of the two frequency doubling diodes never exceeds -.2 volt during this operation. This voltage must be kept at a minimum for proper alignment. The three controls in this paragraph have an effect on each other. Should the stereo indicator light up, readjust the mute control to extinguish the lamp and continue adjustment of the transformers for maximum.
5. Remove ground from Test Point "T".

6. Turn generator pilot carrier amplitude control to 5% position.
7. Slowly rotate the mute control to a point where the stereo indicator lights up.

Separation Adjustments

1. Place stereo monaural switch in Stereo position.
2. Turn generator pilot carrier amplitude control to 10% position.
3. Move L-R and L+R generator switches from OFF position to L-R and L+R positions.
4. Connect a V.T.V.M. (AC scale) and/or scope to the L audio output, after the 38KHz filter.
5. Adjust the 38KHz detector transformer for maximum voltage at L output. The magnitude of this signal should be much greater than that at the R output. The voltage at the L output should be approximately 10 times or greater than at the R output.

TROUBLE-SHOOTING

Should a problem arise in aligning the FM multiplex portion of the receiver and the technician does not know whether the difficulty lies in the RF, IF, limiter and ratio detector portions of the receiver, or whether the difficulty lies in the multiplex portion, the multiplex generator can be used as an excellent signal tracing device to determine if the multiplex section of the receiver is functioning properly. The composite output of the multiplex generator can be injected at the output of the ratio detector.

To reduce possible extraneous signals coming through the ratio detector, short the ratio detector primary with a jumper lead. The wave forms and their magnitude may vary slightly from chassis to chassis, however, they are quite indicative of what will be seen when signal tracing the multiplex circuitry.

67KHz Signal Tracing

1. Turn generator pilot carrier amplitude control to zero.
2. Move L+R and L-R switches to OFF position.
3. Move 67 KHz generator switch from OFF position up to 67KHz. Sequentially connect an oscilloscope to the input and output of the 67KHz trap. The 67KHz signal at the output of the trap if it is properly nulled, will be much smaller than at the input. The voltage ratio should be approximately 20 to 1 input to output.

19KHz Signal Tracing

1. Move the 67KHz generator switch to OFF.
2. Rotate the generator 19KHz pilot carrier amplitude control to 10% position.
3. Sequentially connect your scope to the base of composite amplifier, base of 19KHz amplifier and collector of 19KHz amplifier. The amplitude of the 19KHz signal should greatly increase as you proceed along the 19KHz chain.

Doubler and Subcarrier Signal Tracing

To determine if the doubler is functioning, place your scope at the junction of the two diodes and you will see 38KHz DC pulses. Placing the scope at the collector of the subcarrier amplifier, you should see a 38KHz sine wave which will indicate that the subcarrier amplifier and associated ringing circuitry is functioning properly.

Multiplex Detector Signal Tracing

1. Leave the 19KHz amplitude control at 10%.
2. Move the L - R generator switch from OFF position to L - R position. You should see equal amplitude 1000 hertz sine waves at both L and R outputs.

3. Move the L+R switch from OFF up to L+R and look at the L audio output, and measure the magnitude of the 1000 hertz sine wave. If the multiplex detector and preceding circuitry are aligned properly, the magnitude of the wave form at L should be greater than at R.

If all the waves are similar in form and magnitude to those indicated, then it can be assumed that the multiplex portion of the receiver is functioning properly and the problem lies ahead of this in the FM receiver. If any of the wave forms are missing at a latter point but are apparent at a previous point, then something is amiss in the circuitry between the two test points.

CIRCUIT THEORY AND APPLICATION

QUASI COMPLEMENTARY SYMMETRY

Chassis 27BT30 uses quasi complementary symmetry output circuits which are similar to the complementary symmetry output circuits used in other chassis. Since complementary symmetry has been explained in detail in Service Manual HF18 (No. 923-588) you may wish to review that material.

Transistors Q453, Q454 and Q455 of Fig. 1 (complementary symmetry) can be compared with Q453, Q455, and Q456 respectively of Fig. 2 (quasi complementary symmetry). Voltage changes on the collector of Q453 appear on the base of Q456 (directly) and the base of Q455 (via Q454). AC signals will see Q454 as a short circuit.

When a positive going voltage appears on the base of Q455, a similar change occurs on its emitter, and also on the base of Q457 which is then forward biased into conduction. During this time, the positive going voltage will bias Q456 to cut off, and neither Q456 nor Q458 will conduct. When the base voltage on Q455 goes in a negative direction, Q455 will be biased towards cut off, while Q456 will be forward biased and in turn causes Q458 to conduct.

Up to this point, operation of Fig. 2 is similar to Fig. 1 with the addition of power output transistors Q457 and Q458. It should be noted that Q456 provides phase inversion while Q455 is an emitter follower with no inversion.

Bias on output transistors Q454 and Q455 (Fig. 1) is determined by diode CR401 connected between their bases. CR401 has temperature characteristics similar to the output transistors. When an increase in temperature causes an increase in transistor current, a similar voltage decrease occurs across the diode providing compensation by changing the base to base voltage of Q454 and Q455.

Quasi complementary symmetry of Fig. 2 uses a transistor (Q454) for bias control, instead of a diode. Q454 not only serves to stabilize base voltage, but also has the advantage of allowing manual presetting of the bias. Bias adjustment Control (R476) is part of the voltage divider network (R475, R477) between collector and emitter of Q454. Setting of R476 determines the bias on Q454, which in turn sets the bias and idling current of the output transistors. Q454 is subject to the same temperature changes as the output transistors. Any increase in temperature that causes increased current flow in Q454 will offset the increased current flow in the other transistors and will stabilize bias voltages.

Proper idling current in the output circuit (27BT30) is obtained when Bias Control (R476) is set to provide 0.010 to 0.015 volts across the 1 ohm resistor (R480).

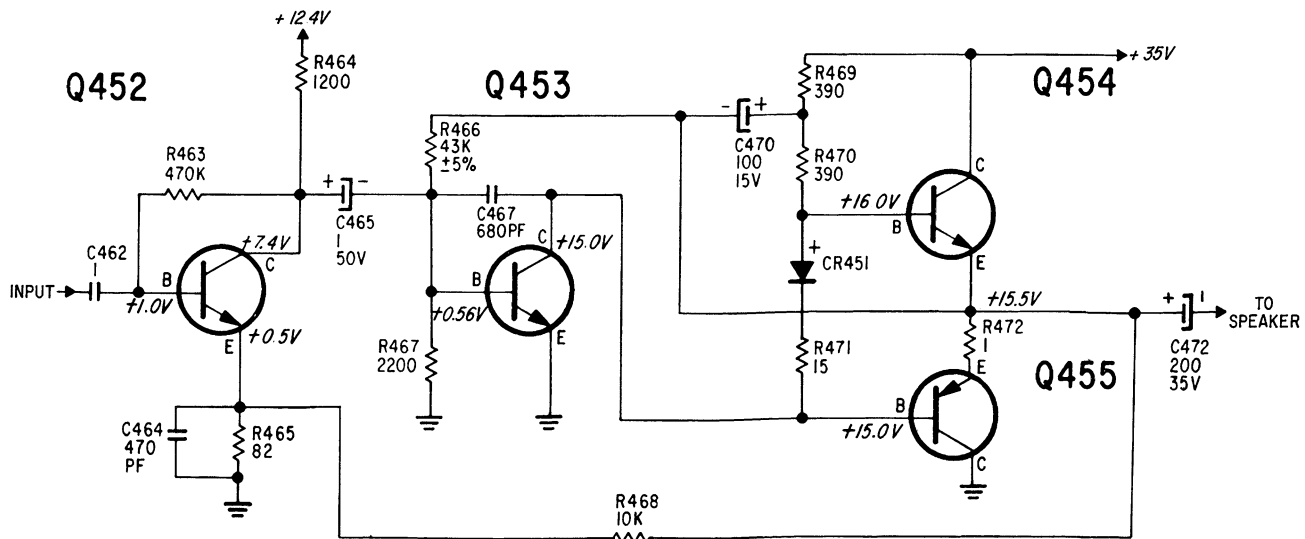


FIG. 1 COMPLEMENTARY SYMMETRY OUTPUT CIRCUIT

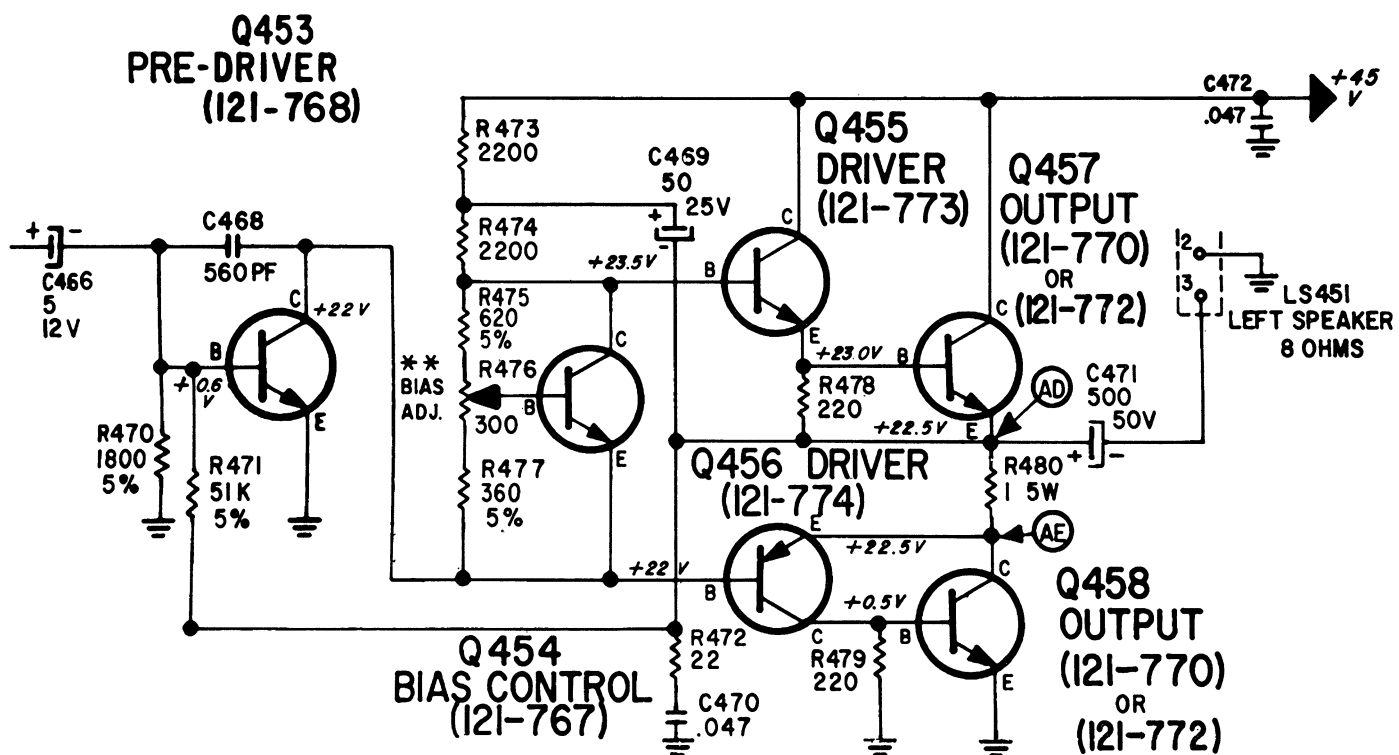


FIG. 2 QUASI COMPLEMENTARY SYMMETRY OUTPUT CIRCUIT

PARTS LIST

NOTE: Certain circuit boards included in this parts list have component locations identified by item number on the circuit board. These item numbers are also shown on the schematic and in the following parts list—See section 3 for further information.

PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
CHASSIS 2AT30					
12-4938	Chassis Bracket	1.35	22-3652	.1 MF Disc Capacitor - 10V.	.30
19-448	Connector Clip	.10	22-4568	100 MF Electrolytic Capacitor - 15V.	.95
19-492	Retaining Clip	.05	22-4570	100 MF Electrolytic Capacitor - 35V.	1.05
22-2939	680 PF Disc Capacitor - 500V. (6 Req.)	.25	22-5201	.0022 MF Disc Capacitor - 25V.	.20
22-3034	.05 MF Disc Capacitor - 25V. (2 Req.)	.45	22-6096	470 MFD. Electrolytic Capacitor - 35V.	3.50
22-3045	.047 MF Capacitor - 50V. (2 Req.)	.40	63-1747	120 Ohm Resistor - ½W. 10%	.17
22-3255	330 PF Disc Capacitor - 500V. (2 Req.)	.25	63-1785	1000 Ohm Resistor - ½W. 10% (2 Req.)	.17
22-3687	1 MF Electrolytic Capacitor - 50V. (2 Req.)	1.50	63-1820	6800 Ohm Resistor - ½W. 10%	.17
22-3766	.033 MF Capacitor - 50V. (2 Req.)	.10	63-1901	560K Ohm Resistor - ½W. 10% (2 Req.)	.17
22-4617	.01 MF Disc Capacitor - 500V.	.75	63-1911	1 Megohm Resistor - ½W. 10%	.17
22-5012	.15 MF Capacitor - 50V. (2 Req.)	.40	63-4529	4.7 Ohm Resistor - ½W. 10%	1.20
22-5115	.082 MF Capacitor - 50V. (4 Req.)	.30	63-8321	Volume Control	.03
22-5207	220 PF Capacitor - 100V. (2 Req.)	.25	64-1033	Grip Eyelet (6 Req.)	.03
*22-5947	.39 MF Capacitor - 50V. (2 Req.)	.70	86-329	Connector Terminal (2 Req.)	.50
43-877	3 Contact Housing	.03	103-145	Diode	1.30
43-1043	9 Contact Housing (Male)	.60	121-433	Transistor - Driver	.80
52-1526	Dual Shielded Lead	.17	-OR-		
54-139	3/8-32 Palnut No. RE3832 (1 Used On Ea. 63-7685, 63-6496, 63-6497 & 63-6499) (4 Req.)	.17	121-764	Transistor - Driver	1.25
57-6901	Bottom Plate	.17	212-71	Rectifier	
63-1799	2200 Ohm Resistor - ½W. 10% (2 Req.)	.17	800-328	Output Transistor Assem. - Matched Pair (PNP) (NPN)	
63-1810	3900 Ohm Resistor - ½W. 10% (2 Req.)	.17	-OR-		
63-1817	5600 Ohm Resistor - ½W. 10% (4 Req.)	.17	800-305	Output Transistor Assem. - Matched Pair (PNP) (NPN)	
63-1834	15K Ohm Resistor - ½W. 10% (2 Req.)	.17			
63-1835	15K Ohm Resistor - ½W. 20%	.17			
63-1845	27K Ohm Resistor - ½W. 10% (2 Req.)	.17			
63-1848	33K Ohm Resistor - ½W. 10% (2 Req.)	.17			
63-1855	47K Ohm Resistor - ½W. 10% (2 Req.)	.17			
63-1880	180K Ohm Resistor - ½W. 10% (2 Req.)	.17			
63-1883	220K Ohm Resistor - ½W. 10% (4 Req.)	.17			
63-6496	Dual Loudness Control (Front & Rear)	3.45	12-475	Chassis Mtg. Bracket (4 Req.)	
63-6497	Balance Control	1.25	19-546	Capacitor Retaining Clip (2 Req.)	.10
63-6499	Dual Treble Control (Front & Rear)	2.25	22-2939	680 PF Disc Capacitor - 500V. (2 Req.)	.25
63-7685	Bass Control & Switch (Front & Rear)	4.30	22-3239	.1 MF Capacitor - 400V. (4 Req.)	.45
79-174-12	No. 18 Sleeving - Yellow - 1½"	.03	22-3878	2000 MF Electrolytic Capacitor - 75V.	7.10
83-5328	11 Lug Terminal Strip	.35	22-3881	1500 MF Electrolytic Capacitor - 50V.	5.00
83-5384	6 Lug Terminal Strip	.15	22-4145	.1 MF Capacitor - 200V. (2 Req.)	.30
83-5648	14 Lug Terminal Strip	.50	22-4415	.47 MF Capacitor - 200V.	.75
83-6769	Chassis Control Panel Strip	.40	22-5162	3 Section Electrolytic Capacitor - 50V/50V/25V.	6.00
83-6881	Terminal Board	.55	22-5262	100 MF Electrolytic Capacitor - 50V. (2 Req.)	1.45
86-388	Terminal (2 Part Of S-80716)	.05	22-5362	1000 MF Electrolytic Capacitor - 50V. (2 Req.)	4.05
86-483	Terminal - Male (9 Req.)	.03	22-5455	50 MF Electrolytic Capacitor - 50V.	1.15
86-496	Ground Terminal	.03	*22-5903	.0015 MF Disc Capacitor - 1.4KV.	
114-801	8-18 x 5/16 x 1/4 Hex Hd. Self-Tap. Screw- Stat. Bronze (2 Mt. 83-6769)	.03	43-333	3 Contact Housing	.20
S-80716	Dual Shielded Lead & Terminal Assem.	1.10	43-574	9 Contact Housing	.35
			43-874	9 Contact Housing	.30
			54-579	10-32 x 3/8 x 3/16 Thick - Hex Nut - Cadmium (1 Used On Ea. 212-62)	.03
			62-30	Fuse Holder	.40
			63-1747	120 Ohm Resistor - ½W. 10%	.17
			63-1757	220 Ohm Resistor - ½W. 10%	.17
			63-1761	270 Ohm Resistor - ½W. 10%	.17
			63-1820	6800 Ohm Resistor - ½W. 10% (2 Req.)	.17
			63-1827	10K Ohm Resistor - ½W. 10% (2 Req.)	.17
			63-1926	2.2 Megohm Resistor - ½W. 20%	.17
			63-1954	10 Megohm Resistor - ½W. 20%	.17
			63-4851	125 Ohm Resistor - 4W. 10%	.65
			63-5217	2 Ohm Resistor - 10W. 10%	.80
CHASSIS 3AT20					
12-5331	Chassis Support Bracket	.15			
22-3034	.05 MF Disc Capacitor - 25V.	.45			
22-3255	330 PF Disc Capacitor - 25V.	.25			

*Denotes parts not previously used in Zenith receivers.

PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
63-5282	.39 Ohm Resistor - 5W. 5% (2 Req.)	.75	22-4570	100 MF Electrolytic Capacitor - 35V. (2 Req.)	1.05
63-5367	.43 Ohm Resistor - 5W. 5% (2 Req.)	.75	22-5056	.02 MF Disc Capacitor - 25V. (2 Req.)	.20
63-5369	220 Ohm Resistor - 5W. 10%	.75	22-5167	1000 MF Electrolytic Capacitor - 30V.	3.20
63-5638	180 Ohm Resistor - 2W. 10%	.34	22-5585	750 PF Disc Capacitor - 500V. (2 Req.)	.10
63-5641	220 Ohm Resistor - 2W. 20%	.34	52-1647	Two Conductor Shielded Cable	.80
63-5645	270 Ohm Resistor - 2W. 10% (2 Req.)	.34	63-1747	120 Ohm Resistor - ½W. 10% (2 Req.)	.17
63-5961	2.7 Ohm Resistor - 1W. 10% (4 Req.)	.25	63-1785	1000 Ohm Resistor - ½W. 10% (4 Req.)	
63-6442	560 Ohm Resistor - 3W. 10% (2 Req.)	.30	63-1820	6800 Ohm Resistor - ½W. 10% (2 Req.)	.17
64-4	1/8 Dia. x 1/4 Lg. Tubular Rivet - N.P. No. 30248 (2 Used On Ea. 78-1812)	.03	63-1835	15K Ohm Resistor - ½W. 20%	
64-5	1/8 Dia. x 7/32 Lg. Tubular Rivet - Cadmium (2 Join Ea. 83-5052 & 83-5054, 3 Join 83-4987 & 83-5038, 2 Used On 78-402, & 2 Join Ea. 83-5284 & 83-5291) (13 Req.)		63-1841	22K Ohm Resistor - ½W. 10%	
64-6	1/8 Dia. x 3/16 Lg. Tubular Rivet - Cadmium (2 Used On Ea. 12-475, 78-1347 & 1 Used On Ea. 86-328) (16 Req.)		63-1845	27K Ohm Resistor - ½W. 10% (2 Req.)	.17
64-7	1/8 Dia. x 5/32 Lg. Tubular Rivet - Cadmium (1 Used On 83-7330, 2 Used On 95-2736 & 95-2737) (5 Req.)	.03	63-1876	150K Ohm Resistor - ½W. 10% (2 Req.)	.17
78-402	4 Contact Housing	.15	63-1880	180K Ohm Resistor - ½W. 10% (2 Req.)	
78-1347	Electrolytic Socket (3 Req.)	.10	63-1883	220K Ohm Resistor - ½W. 10% (2 Req.)	.17
78-1812	2 Contact Transistor Socket (2 Part Of Ea. S-73152) (6 Req.)	.30	63-1887	270K Ohm Resistor - ½W. 10% (2 Req.)	.17
79-174-12	No. 18 Sleeve - Yellow - 1½"	.03	63-1901	560K Ohm Resistor - ½W. 10% (4 Req.)	.17
83-4633	Felt Strip	.03	63-4526	3.9 Ohm Resistor - ½W. 10% (4 Req.)	.15
83-4987	12 Lug Terminal Strip	.30	*63-8445	Volume Control (2 Req.)	
83-5038	Insulating Strip	.05	*63-8446	Dual Tone Control	
83-5052	6 Lug Terminal Strip (2 Req.)	.20	64-1033	Grip Eyelet (9 Req.)	.03
83-5054	Insulating Strip (2 Req.)	.03	79-174-12	No. 18 Sleeve - Yellow - 1½"	
83-5277	Transistor Insulating Strip (6 Req.)	.03	86-329	Connector Terminal (2 Used On S-74674 & S-77602) (4 Req.)	.03
83-5284	5 Lug Terminal Strip (2 Req.)	.15	94-1527	Snap Bushing (2 Req.)	.25
83-5291	Insulating Strip (2 Req.)	.03	103-145	Diode (2 Req.)	.50
*83-7330	8 Lug Terminal Strip		121-434	Transistor - Pre-Amplifier (2 Req.)	1.25
86-303	Terminal - Male (3 Req.)	.04	-OR-		
86-328	Wire Retaining Terminal (2 Req.)	.03	121-711	Transistor - Pre-Amplifier (2 Req.)	.80
86-389	Terminal - Female (9 Req.)	.03	121-764	Transistor - Driver (2 Req.)	.80
86-484	Connector Terminal (7 Req.)	.03	-OR-		
86-496	Connector Terminal	.03	121-433	Transistor - Driver (2 Req.)	1.30
93-2	Rivet Washer (2 Used On 95-2737)	.03	212-71	Rectifier	1.25
93-369	Internal Lockwasher Shakeproof No. 1210 (1 Used On Ea. 212-62)	.03	800-305	Output Transistor Assem. - Matched Pair (PNP) (NPN)	1.45
95-2425	Power Transformer	35.00	-OR-		
*95-2736	Transformer - Driver		800-328	Output Transistor Assem. - Matched Pair (PNP) (NPN)	
*95-2737	Transformer - Driver		S-74674	Speaker Lead & Terminal Assem.	1.05
*101-2947	Label (Indicator Light & Speaker)		*S-77602	Speaker Lead & Terminal Assem.	
102-9536	Fuse Label (3 Amp.)				
114-601	10-16 x 1/2 x 5/16 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze (4 Mt. 95-2425)	.04			
114-801	8-18 x 5/16 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (4 Used On Ea. S-73152) (8 Req.)	.03			
114-1001	6-32 x 1/2 Hex Washer Hd. Self-Tap. Screw- Special (2 Used On Ea. 121-398 & 121-382) (12 Req.)	.03			
121-382	Transistor - Power - Matched Pair (2 Req.)	8.40			
121-398	Transistor - Driver (2 Req.)	5.00			
136-61	Fuse - 3 Amp. (Type C)	.35			
212-62	Silicon Rectifier (2 Req.)	3.10			
212-71	Silicon Rectifier	1.25			
S-73152	Heat Sink Assem. (2 Req.)	4.30			
CHASSIS 8BT20					
*12-5411	Control & Board Mtg. Bracket		11-183	A.C. Line Cord	
22-2	220 PF Disc Capacitor - 500V. (2 Req.)	.25	12-4901	Control Bracket (3 Req.)	
22-3254	.1 MF Disc Capacitor - 25V. (2 Req.)	.75	17-135	Line Cord Clamp	
22-3321	100 PF Disc Capacitor - 25V. (2 Req.)	.25	19-552	Clip - Heat Sink (2 Used On S-78037 & 4 Used On S-81069)	
22-3393	.01 MF Disc Capacitor - 25V. (4 Req.)	.25	22-3414	.0047 MF Disc Capacitor - 25V. (2 Req.)	
22-3615	1.0 MF Electrolytic Capacitor - 25V. (2 Req.)	1.55	22-3448	10 MF Electrolytic Capacitor - 15V. (2 Req.)	
22-3652	.1 MF Disc Capacitor - 10V. (2 Req.)	.30	22-3598	.022 MF Disc Capacitor - 50V. (2 Req.)	
22-3896	5 MF Electrolytic Capacitor - 25V.	1.00	22-5475	500 MF Electrolytic Capacitor - 25V.	
22-4567	50 MF Electrolytic Capacitor - 15V. (2 Req.)	.80	22-5507	22 PF Disc Capacitor - 500V. (2 Req.)	
			22-5509	.22 MF Disc Capacitor - 3V. (2 Req.)	
			22-5511	100 MF Electrolytic Capacitor - 20V. (4 Req.)	
			22-5512	250 MF Electrolytic Capacitor - 15V. (2 Req.)	
			23-23	Wire Connector	
			43-519	Socket Contact Housing	
			58-214	Connector Plug (2 Part Of S-79177)	
			63-1722	33 Ohm Resistor - ½W. 10% (2 Req.)	
			63-1750	150 Ohm Resistor - ½W. 10% (3 Req.)	
			63-1758	220 Ohm Resistor - ½W. 20% (2 Req.)	
			63-1768	390 Ohm Resistor - ½W. 10% (2 Req.)	
			63-1778	680 Ohm Resistor - ½W. 10% (2 Req.)	
			63-1785	1000 Ohm Resistor - ½W. 10%	
			63-1792	1500 Ohm Resistor - ½W. 10% (2 Req.)	
			63-1813	4700 Ohm Resistor - ½W. 10% (2 Req.)	
			63-1880	180K Ohm Resistor - ½W. 10% (2 Req.)	
			63-1908	820K Ohm Resistor - ½W. 10% (2 Req.)	
			63-1911	1 Meg Ohm Resistor - ½W. 10%	
			63-1915	1.2 Meg Ohm Resistor - ½W. 10% (2 Req.)	
			63-4529	4.7 Ohm Resistor - ½W. 10% (4 Req.)	

CHASSIS 8ZT20

11-183	A.C. Line Cord
12-4901	Control Bracket (3 Req.)
17-135	Line Cord Clamp
19-552	Clip - Heat Sink (2 Used On S-78037 & 4 Used On S-81069)
22-3414	.0047 MF Disc Capacitor - 25V. (2 Req.)
22-3448	10 MF Electrolytic Capacitor - 15V. (2 Req.)
22-3598	.022 MF Disc Capacitor - 50V. (2 Req.)
22-5475	500 MF Electrolytic Capacitor - 25V.
22-5507	22 PF Disc Capacitor - 500V. (2 Req.)
22-5509	.22 MF Disc Capacitor - 3V. (2 Req.)
22-5511	100 MF Electrolytic Capacitor - 20V. (4 Req.)
22-5512	250 MF Electrolytic Capacitor - 15V. (2 Req.)
23-23	Wire Connector
43-519	Socket Contact Housing
58-214	Connector Plug (2 Part Of S-79177)
63-1722	33 Ohm Resistor - ½W. 10% (2 Req.)
63-1750	150 Ohm Resistor - ½W. 10% (3 Req.)
63-1758	220 Ohm Resistor - ½W. 20% (2 Req.)
63-1768	390 Ohm Resistor - ½W. 10% (2 Req.)
63-1778	680 Ohm Resistor - ½W. 10% (2 Req.)
63-1785	1000 Ohm Resistor - ½W. 10%
63-1792	1500 Ohm Resistor - ½W. 10% (2 Req.)
63-1813	4700 Ohm Resistor - ½W. 10% (2 Req.)
63-1880	180K Ohm Resistor - ½W. 10% (2 Req.)
63-1908	820K Ohm Resistor - ½W. 10% (2 Req.)
63-1911	1 Meg Ohm Resistor - ½W. 10%
63-1915	1.2 Meg Ohm Resistor - ½W. 10% (2 Req.)
63-4529	4.7 Ohm Resistor - ½W. 10% (4 Req.)

*Denotes parts not previously used in Zenith receivers.

PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
*63-7637	Volume Control (2 Req.)		114-271	6-20 x 1/2 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (4 Used On Ea. 800-196 & 2 Used On 121-726) (10 Req.)	.03
*63-7638	Dual Tone Control		114-801	8-18 x 5/16 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (1 Used On Ea. 95-2475) (2 Req.)	.03
79-174-12	No. 18 Sleeving - Yellow - 1 1/2"		114-802	8-18 x 5/16 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze (4 Mt. 95-2476)	.03
86-334	Connector Terminal (3 Req.)		121-430	Transistor - Pre-Driver (2 Req.)	1.10
94-1527	Snap Bushing (Used On 11-183)		121-706	Transistor - Driver (2 Req.)	.85
95-2573	Power Transformer		121-726	Transistor - Filter	2.80
114-802	8-18 x 5/16 x 1/4 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze (2 Used On S-81070)		125-140	Strain Relief Grommet	.10
121-632	Transistor - Driver (2 Req.)		136-24	Fuse - 2A. 250V.	.25
121-633	Transistor - Pre-Driver (2 Req.)		205-51	Dow Corning Heat Conductive Grease (Part Of 800-196)	.16
205-51	Dow Corning Heat Conductive Grease (Part Of 800-219)		212-61	Silicon Rectifier (2 Req.)	1.75
212-71	Rectifier		800-196	Power Output Transistor - Matched Pair (2 Req.)	5.00
800-219	Output Transistor Assem. - Matched Pair (2 Req.)		S-84665	Speaker Cable & Terminal Assem.	.60
S-78037	Chassis Control Panel Assem.				
S-79177	Phono Cable & Plug Assem.				
*S-81069	Chassis Bracket Assem.				
*S-81070	Bracket & Jack Assem.				

CHASSIS 9AT27

11-150	A.C. Line Cord	
19-546	Capacitor Retaining Clip	.10
19-561	Capacitor Retaining Clip (4 Req.)	.10
22-14	.0047 MF Disc Capacitor - 500V. (2 Req.)	.25
22-2376	47 PF Disc Capacitor - 500V. (2 Req.)	.15
22-3608	68 PF Disc Capacitor - 500V. (2 Req.)	.25
22-3687	1 MF Electrolytic Capacitor - 50V. (2 Req.)	1.50
22-3892	.01 MFD. Capacitor - 100V. (3 Req.)	.30
22-3973	100 MF Electrolytic Capacitor - 25V. (2 Req.)	1.30
22-4601	.01 MF Disc Capacitor - 1KV.	.20
22-4617	.01 MF Disc Capacitor - 500V. (2 Req.)	.10
22-5167	1000 MF Electrolytic Capacitor - 30V.	3.20
22-5316	500 MF Electrolytic Capacitor - 50V. (3 Req.)	2.55
22-5362	1000 MF Electrolytic Capacitor - 50V.	4.05
43-519	Socket Contact Housing - Male (Used On 52-1339)	.20
43-574	9 Contact Housing - Female (Used On 86-389)	.35
43-876	3 Contact Housing - Female (Used On 86-484)	.25
52-1339	Three Conductor Cable - Approx. 26" (Used On 86-334)	.30
52-1673	Three Conductor Cable - Approx. 45" (Used On 86-344)	.55
57-6328	Heat Sink Plate (2 Req.)	.50
63-1750	150 Ohm Resistor - 1/2W. 10% (2 Req.)	.17
63-1771	470 Ohm Resistor - 1/2W. 10% (2 Req.)	.17
63-1827	10K Ohm Resistor - 1/2W. 10% (2 Req.)	
63-1862	68K Ohm Resistor - 1/2W. 10% (2 Req.)	
63-1869	100K Ohm Resistor - 1/2W. 10% (2 Req.)	.17
63-1876	150K Ohm Resistor - 1/2W. 10% (2 Req.)	.17
63-1918	1.5 Megohm Resistor - 1/2W. 10% (2 Req.)	
63-1936	3.9 Megohm Resistor - 1/2W. 10%	
63-4533	5.6 Ohm Resistor - 1/2W. 10% (4 Req.)	.17
63-5305	.51 Ohm Resistor - 5W. 5% (4 Req.)	.75
63-5600	22 Ohm Resistor - 2W. 10%	.34
63-5642	220 Ohm Resistor - 2W. 10%	.34
63-6027	100 Ohm Resistor - 1W. 20% (2 Req.)	
63-6059	560 Ohm Resistor - 1W. 10%	.20
63-6063	680 Ohm Resistor - 1/2W. 10% (4 Req.)	
78-1812	2 Contact Transistor Socket (5 Req.)	.30
79-174-12	No. 18 Sleeving - Yellow - 1 1/2"	.03
83-5277	Transistor Insulating Strip (Part Of 800-196)	.03
83-5385	7 Lug Terminal Strip	.15
83-5391	20 Lug Terminal Strip (3 Req.)	.50
83-6881	14 Lug Terminal Strip	.55
86-334	Connector Terminal (3 Used On 52-1339)	.10
86-344	Connector Terminal (Used On 52-1673)	.03
86-389	Connector Terminal (Used On 43-574)	.03
86-484	Connector Terminal - Female (Used On 43-876)	.03
86-496	Ground Terminal	.03
95-2475	Transformer - Driver (2 Req.)	4.50
95-2476	Power Transformer	11.00
102-5383	Fuse Label	.03

CHASSIS 10ZT30

12-4009	Tuner Bracket	.36
12-4758	Coil Mtg. Bracket	.30
12-4889	Dial Background Mtg. Bracket	1.55
12-4998	Bracket	.55
17-130	Clamp	.25
17-135	Clamp	.20
19-322	Coil Mtg. Clip (1 Used On Ea. S-62887, S-65043 & S-78099)	.05
19-448	Ground Clip	.10
19-480	Retaining Clip	.03
20-1256	Trap Coil	.50
22-2481	8 PF Disc Capacitor - 500V.	.25
22-2513	7 PF Disc Capacitor - 500V.	.25
22-2729	.001 MF Disc Capacitor - 25V. (2 Req.)	.25
22-3034	.05 MF Disc Capacitor - 25V.	.45
22-3541	3.3 PF Gimmick Capacitor - 500V.	.25
22-3622	19 PF Disc Capacitor - 500V.	.25
22-3675	10 PF Disc Capacitor	.25
22-3792	17 PF Disc Capacitor - 500V.	.25
22-4572	500 MF Electrolytic Capacitor - 15V.	1.60
22-4613	.001 MF Feed-Thru Capacitor - 500V. (2 Req.)	.10
22-4617	.01 MF Disc Capacitor - 500V.	.10
22-4843	Variable Capacitor	3.70
22-4844	.002 MF Feed-Thru Capacitor - 500V. (2 Req.)	.25
22-5321	36 PF Disc Capacitor	.15
22-5485	1 PF Gimmick Capacitor	.25
24-1621	Tuner Cover	.55
43-874	Terminal Housing (9 Contact)	.30
43-875	Terminal Housing (9 Contact)	.30
52-1489	Two Conductor Shielded Lead	.80
52-1490	Two Conductor Shielded Lead	.70
52-1571	Two Conductor Shielded Cable	
54-139	3/8-32 Palnut (Used On 85-1027)	.03
56-426	Roll Pin (Part Of S-79746)	.05
58-315	Connector Plug (2 Req.)	.25
61-222	Idle Pulley (6 Req.)	.20
63-1761	270 Ohm Resistor - 1/2W. 10%	.17
63-1772	470 Ohm Resistor - 1/2W. 20%	.17
63-1796	1800 Ohm Resistor - 1/2W. 10%	
63-1810	3900 Ohm Resistor - 1/2W. 10%	.17
63-1831	12K Ohm Resistor - 1/2W. 10%	
63-1898	470K Ohm Resistor - 1/2W. 20% (3 Req.)	.17
63-4122	33 Ohm Resistor - 1/4W. 10%	.17
63-4196	1800 Ohm Resistor - 1/4W. 10%	.17
76-1141	Guide Shaft	.10
76-1772	Tuning Shaft (Part Of S-79746)	2.45
78-1784	Dial Light Socket & Wire (3 Req.)	.90
80-209	Drive Cord Tension Spring (Gang)	.10
80-1140	Drive Cord Tension Spring (Pointer)	.05
80-1467	Retaining Spring	.05
80-1468	Grounding Spring	.05
80-1951	Retaining Spring (Part Of S-79746)	.03
83-4125	Two Lug Terminal Strip	.10
83-5773	Three Lug Terminal Strip	.15

*Denotes parts not previously used in Zenith receivers.

PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
83-6500	Two Lug Terminal Strip	.10	22-5482	680 PF Disc Capacitor - 500V. (2 Req.)	.25
83-6557	Antenna Mtg. Strip		22-5483	1500 PF Disc Capacitor - 1KV.	.25
83-6807	14 Lug Terminal Strip	.40	22-5486	10 MF Electrolytic Capacitor - 3V.	.95
83-6900	Antenna Protection Strip	.15	-OR-		
85-1027	Six Position Bandswitch	9.25	22-4754	10 MF Electrolytic Capacitor - 6V.	
86-344	Connector Terminal (2 Req.)	.03	52-1443	Four Conductor Cable	
86-388	Connector Terminal - Female (2 Req.)	.05	63-1761	270 Ohm Resistor - ½W. 10%	.17
86-398	Connector Terminal - Female (8 Req.)	.10	63-1768	390 Ohm Resistor - ½W. 10%	.17
86-441	Insulated Feed-Thru Terminal (2 Req.)	.05	63-1771	470 Ohm Resistor - ½W. 10%	.17
86-483	Connector Terminal - Male (9 Req.)	.03	63-1772	470 Ohm Resistor - ½W. 20% (3 Req.)	.17
86-484	Connector Terminal - Female (7 Req.)	.03	63-1778	680 Ohm Resistor - ½W. 10% (5 Req.)	.17
94-613	Iron Core Bushing (2 Req.)	.10	63-1785	1000 Ohm Resistor - ½W. 10%	
94-1380	Insulating Bushing (2 Req.)		63-1796	1800 Ohm Resistor - ½W. 10%	
100-249	Pilot Light Bulb (3 Req.)	.18	63-1799	2200 Ohm Resistor - ½W. 10% (3 Req.)	.17
103-47	Diode	3.75	63-1803	2700 Ohm Resistor - ½W. 10%	
103-74	Diode	.50	63-1806	3300 Ohm Resistor - ½W. 10%	.17
113-10	6-32 x 3/16 x 1/4 Hex Hd. Mach. Screw-N.P. - Internal Lockwasher Att. (4 Mt. 22-4843)	.03	63-1810	3900 Ohm Resistor - ½W. 10%	.17
114-26	8-18 x 1/4 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (Used On 12-4889)	.03	63-1813	4700 Ohm Resistor - ½W. 10% (2 Req.)	.17
114-564	8-18 x 5/16 Hex Hd. Self-Tap. Screw-Stat. Bronze	.03	63-1824	8200 Ohm Resistor - ½W. 10%	.17
114-651	8-15 x 5/16 x 1/4 Hex Washer Hd. Self-Tap. Screw- Stat. Bronze (Used On S-79739)	.05	63-1827	10K Ohm Resistor - ½W. 10%	
114-801	8-18 x 5/16 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (2 Used On Ea. S-79739 & S-79740) (4 Req.)	.03	63-1831	12K Ohm Resistor - ½W. 10%	
114-802	8-18 x 5/16 x 1/4 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze (2 Used On 94-1380)	.03	63-1845	27K Ohm Resistor - ½W. 10%	.17
114-803	6-20 x 1/4 x 1/4 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze (4 Join Bracket & Pulley Assem. & Multiplex Assem.)	.03	63-1869	100K Ohm Resistor - ½W. 10%	.17
121-612	Transistor - R.F. (FM)	.90	63-4185	1000 Ohm Resistor - ¼W. 10%	.17
121-613	Transistor - Autodyne Converter (FM)	.80	64-1002	Brass Eyelet - Amer. Brass No. SE55 (6 Req.)	.03
125-26	Rubber Grommet	.03	86-398	Connector Terminal (Female)	.10
126-1297	Tuner Shield	.10	95-2541	1st. I.F. Transformer (AM)	1.75
149-368	Iron Core & Spring	.30	95-2542	2nd. I.F. Transformer (AM)	1.75
149-385	Iron Core & Spring	.30	95-2543	3rd. I.F. Transformer (AM)	1.95
S-62887	FM Oscillator Coil Assem.	.60	95-2544	Oscillator Coil (AM)	1.45
S-65043	FM Detector Coil Assem.	1.50	95-2545	Ratio Detector Transformer (FM)	2.65
S-77014	Wave Magnet Assem.	2.45	95-2546	1st. I.F. Transformer (FM)	1.95
S-78099	FM Antenna Coil Assem.	.90	95-2547	2nd. I.F. Transformer (FM)	2.00
S-79739	Bracket & Pulley Assem. (L.H.)	1.85	95-2548	3rd. I.F. Transformer (FM)	2.10
S-79740	Bracket & Pulley Assem. (R.H.)	1.85	103-22	Diode	.75
S-79746	Bracket, Drive Shaft & Iron Core Assem.		103-90	Germanium Diode - Matched (2 Req.)	2.00
S-79776	Drive Cord & Eyelet Assem. (Gang)	.30	121-257	Transistor - Converter (AM)	1.55
S-79777	Drive Cord & Eyelet Assem. (Pointer)	.30	121-546	Transistor - 2nd. & 3rd. I.F. (2 Req.)	.80
S-79778	Drive Cord & Eyelet Assem. (Pointer)	.35	121-614	Transistor - 1st. I.F.	.80
S-81430	Dial Light Shield & Terminal Strip Assem.	2.10	149-311	Ferrite Core (Used On 121-257)	.05
*S-81979	Shielded Lead & Plug Assem.				

CHASSIS 102T30 I.F. CHASSIS ASSEMBLY COMPONENTS

22-2428	1.8 PF Gimmick Capacitor - 500V.	.25
22-2729	.001 MF Disc Capacitor - 25V.	.25
22-3010	.01 MF Disc Capacitor - 25V.	.45
22-3033	.02 MF Disc Capacitor - 25V. (2 Req.)	.35
22-3034	.05 MF Disc Capacitor - 25V. (3 Req.)	.45
22-3080	.005 MF Disc Capacitor - 25V.	.25
22-3177	390 PF Di sc Capacitor - 500V. (2 Req.)	.25
22-3310	2.7 PF Gimmick Capacitor - 500V.	.25
22-3393	.01 MF Disc Capacitor - 25V. (2 Req.)	.25
22-3652	.1 MF Disc Capacitor - 10V.	.30
22-3770	5.5 PF Disc Capacitor - 500V.	.30
22-3791	42 PF Disc Capacitor - 500V.	.25
22-3896	5 MF Electrolytic Capacitor - 25V.	1.00
22-5479	2.4 PF Gimmick Capacitor - 500V.	.15
22-5480	390 PF Mica Capacitor - 100V.	.50
22-5481	560 PF Disc Capacitor - 500V. (2 Req.)	.25

CHASSIS 102T30 MULTIPLEX CHASSIS ASSEMBLY COMPONENTS

22-2884	5 MF Electrolytic Capacitor - 12V. (2 Req.)	1.50
22-3010	.01 MF Disc Capacitor - 25V. (2 Req.)	.45
22-3034	.05 MF Disc Capacitor - 25V. (2 Req.)	.45
22-3424	270 PF Capacitor - 100V.	.35
22-3613	.001 MF Capacitor - 25V.	.50
22-3635	2200 PF Capacitor - 300V. (2 Req.)	1.05
22-3645	1000 PF Disc Capacitor - 100V. (2 Req.)	.75
22-5471	.47 MF Capacitor - 200V.	.60
63-1768	390 Ohm Resistor - ½W. 10%	.17
63-1771	470 Ohm Resistor - ½W. 10% (2 Req.)	.17
63-1775	560 Ohm Resistor - ½W. 10%	.17
63-1782	820 Ohm Resistor - ½W. 10%	.17
63-1785	1000 Ohm Resistor - ½W. 10%	
63-1803	2700 Ohm Resistor - ½W. 10%	
63-1813	4700 Ohm Resistor - ½W. 10% (3 Req.)	.17
63-1817	5600 Ohm Resistor - ½W. 10%	.17
63-1824	8200 Ohm Resistor - ½W. 10%	.17
63-1848	33K Ohm Resistor - ½W. 10%	
63-1855	47K Ohm Resistor - ½W. 10%	
63-6045	270 Ohm Resistor - 1W. 10%	.20
63-6066	820 Ohm Resistor - 1W. 10%	.25
63-6495	100K Potentiometer	1.00
64-1031	Grip Eyelet (4 Req.)	.03
64-1033	Grip Eyelet (17 Req.)	.03
86-500	Connector Pin (16 Req.)	.03
103-23	Germanium Diode (4 Req.)	.75
103-96	Diode	1.90

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PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
105-78	Integnet	1.00	100-249	Pilot Light (2 Req.)	.18
121-639	Transistor - Comp. Amp., 19 KHz Amp., 38 KHz Amp. & Stereo Ind. SW. (4 Req.)	.70	103-145	Diode (2 Req.)	.50
121-1336	Coil Shield	.20	114-94	6-32 x 1/4 Hex Hd. Machine Screw-Stat. Bronze (2 Join 85-1073 & 12-5213)	.03
126-1347	Heat Shield	.20	114-801	8-18 x 5/16 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (2 Used On 83-6769 & 1 Used On 12-5213 (3 Req.)	.03
S-79435	Multiplex Trap Coil Assem.	1.00	114-1080	4-24 x 7/16 x 3/16 Hex Hd. Self-Tap. Screw-Stat. Bronze (2 Used On Ea. 800-289) (4 Req.)	.03
S-79436	Multiplex Trap Coil Assem.	2.50	121-433	Transistor - Pre-Amplifier (4 Req.)	1.30
S-79437	Multiplex Detector Coil Assem.	2.50	121-706	Transistor - Driver (2 Req.)	.85
S-79438	Multiplex Input Coil Assem.	2.30	*126-1414	Dial Light Shield	
			800-289	Output Transistor Assem. - Matched Pair (2 Req.)	
CHASSIS 10AT37					
12-4938	Chassis Bracket	1.35			
*12-5213	Switch Mounting Bracket				
19-480	Retaining Clip	.03	CHASSIS 11ZT27 AMPLIFIER CHASSIS		
22-16	470 PF Disc Capacitor - 500V. (2 Req.)	.25	11-87	A.C. Line Cord	
22-2884	5 MF Electrolytic Capacitor - 12V. (2 Req.)	1.50	19-546	Capacitor Retaining Clip	.10
22-2939	680 PF Disc Capacitor - 500V. (2 Req.)	.25	19-561	Capacitor Retaining Clip (4 Req.)	
22-3034	.05 MF Disc Capacitor - 25V. (2 Req.)	.45	22-14	.0047 MF Disc Capacitor - 500V. (2 Req.)	.25
22-3661	.05 MF Disc Capacitor - 100V.	.25	22-2655	.01 MF Disc Capacitor - 1400V.	.50
22-3721	200 MF Electrolytic Capacitor - 35V. (2 Req.)	2.25	22-3687	1 MF Electrolytic Capacitor - 50V. (2 Req.)	1.50
22-4568	100 MF Electrolytic Capacitor - 15V. (2 Req.)	.95	22-3973	100 MF Electrolytic Capacitor - 25V. (2 Req.)	1.30
22-4572	500 MF Electrolytic Capacitor - 15V.	1.60	22-4617	.01 MF Disc Capacitor - (2 Req.)	.10
22-5091	2 MF Electrolytic Capacitor - 15V. (2 Req.)	.80	22-5167	1000 MF Electrolytic Capacitor - 30V.	3.20
22-5257	.1 MF Disc Capacitor - 12V. (2 Req.)	.40	22-5316	500 MF Electrolytic Capacitor - 50V. (3 Req.)	2.55
22-5487	.47 MF Disc Capacitor - 3V. (2 Req.)	.45	22-5362	1000 MF Electrolytic Capacitor - 50V.	4.05
22-5639	.22 MF Filmatic Capacitor - 100V. (2 Req.)	.45	43-519	Socket Contact Housing (Male)	.20
22-5640	.0056 MF Capacitor - 100V. (4 Req.)	.30	43-874	Nine Contact Housing (Female)	.30
22-5814	.022 MF Mylar Capacitor - 100V. (4 Req.)		43-876	Three Contact Housing (Female)	.25
*22-5883	.033 MF Capacitor - 100V. (2 Req.)		52-1339	Three Conductor Cable - Phono (Approx. 26")	.30
22-5884	.082 MF Capacitor - 100V. (2 Req.)		*52-1529	Three Conductor Cable - Speaker (Approx. 20")	
43-571	Nine Contact Housing - Male	.30	57-6328	Heat Sink Plate (2 Req.)	.50
44-72	Speaker Jack	1.20	63-1757	220 Ohm Resistor - 1/2W. 10% (2 Req.)	.17
44-77	Tape Jack	1.20	63-1771	470 Ohm Resistor - 1/2W. 10% (2 Req.)	.17
44-78	Headphone Jack	2.00	63-1785	1000 Ohm Resistor - 1/2W. 10%	
*52-1614	Auxiliary Input Cable		63-1827	10K Ohm Resistor - 1/2W. 10% (2 Req.)	
*52-1615	Amplifier Input Cable		63-1862	68K Ohm Resistor - 1/2W. 10% (2 Req.)	
*52-1616	Phono Input Cable		63-1869	100K Ohm Resistor - 1/2W. 10% (2 Req.)	.17
54-139	3/8-32 x 9/16 Nut (1 Used On Ea. 63-7570, 63-7571, 63-7573 & 63-8234 (4 Req.)	.03	63-1876	150K Ohm Resistor - 1/2W. 10% (2 Req.)	.17
54-334	Tinnerman Speed Nut (1 Used On Ea. 114-1080) (4 Req.)	.03	63-1918	1.5 Megohm Resistor - 1/2W. 10% (2 Req.)	
54-818	Tinnerman Speed Nut (8 Req.)		63-1936	3.9 Megohm Resistor - 1/2W. 10%	
63-1708	15 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	63-4533	5.6 Ohm Resistor - 1/2W. 10% (4 Req.)	.17
63-1733	56 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	63-5305	.51 Ohm Resistor - 5W. 5% (4 Req.)	.75
63-1758	220 Ohm Resistor - 1/2W. 20% (2 Req.)	.17	63-5600	22 Ohm Resistor - 2W. 10%	
63-1768	390 Ohm Resistor - 1/2W. 10% (4 Req.)	.17	63-5642	220 Ohm Resistor - 2W. 10%	
63-1789	1200 Ohm Resistor - 1/2W. 10% (4 Req.)	.17	63-6027	100 Ohm Resistor - 1W. 20% (2 Req.)	
63-1799	2200 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	63-6031	120 Ohm Resistor - 1W. 10%	.25
63-1810	3900 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	63-6063	680 Ohm Resistor - 1W. 10% (4 Req.)	
63-1813	4700 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	78-1812	Two Contact Transistor Socket (5 Req.)	.30
63-1827	10K Ohm Resistor - 1/2W. 10% (4 Req.)		79-174-34	No. 18 Sleeve - Yellow - 4 1/4"	.10
63-1831	12K Ohm Resistor - 1/2W. 10% (2 Req.)		*83-3404	Three Lug Terminal Strip	
63-1835	15K Ohm Resistor - 1/2W. 20%		83-5277	Transistor Insulating Strip (3 Part Of 800-196)	.03
63-1838	18K Ohm Resistor - 1/2W. 10% (2 Req.)		83-5385	Seven Lug Terminal Strip	.15
63-1845	27K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	83-5391	Twenty Lug Terminal Strip (3 Req.)	.50
63-1853	43K Ohm Resistor - 1/2W. 5% (2 Req.)	.34	*83-6881	Fourteen Lug Terminal Strip	
63-1876	150K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	86-334	Terminal (3 Req.)	.10
63-1880	180K Ohm Resistor - 1/2W. 10% (2 Req.)		86-484	Terminal (11 Req.)	.03
63-1883	220K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	86-496	Ground Terminal	.03
63-1908	820K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	95-2475	Driver Transformer (2 Req.)	4.50
63-4501	1 Ohm Resistor - 1/2W. 10% (2 Req.)	.15	95-2476	Power Transformer	11.00
63-7570	Dual Loudness Control	3.25	112-1608	8-18 x 5/16 Phillips Pan Hd. Self-Tap. Screw - Black Oxide (4 Mounting 95-2476)	.10
63-7571	Balance Control	1.30	114-271	6-20 x 1/2 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (2 Used On Each 800-196 & 2 Used On 121-726)	.03
63-7573	Dual Treble Control	2.55	114-801	8-18 x 5/16 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (1 Used On Each 95-2475)	.03
*63-8234	Dual Bass Control		121-430	Transistor - Pre-Driver (2 Req.)	1.10
*78-1889	Light Socket & Wire		121-706	Transistor - Driver (2 Req.)	
83-6769	Chassis Control Panel Strip	.40	*121-726	Transistor (Power Supply Filter)	
*85-1073	Function Switch				
86-390	Connector Terminal (9 Req.)	.03			
93-1833	Transistor Insulating Washer (2 Req.)	.03			
93-1834	Aluminum Heat Zinc Washer (2 Req.)	.10			

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PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
125-140	Strain Relief Grommet	.10	22-3034	.05 MF Disc Capacitor - 25V.	.45
136-24	Fuse - 2A. 250V.	.25	22-3541	3.3 PF Gimmick Capacitor - 500V.	.25
205-51	Dow Corning Hear Conductive Grease (Part Of 800-196)	.16	22-3622	19 PF Disc Capacitor - 500V.	.25
212-61	Silicon Rectifier (2 Req.)	1.75	22-3675	10 PF Disc Capacitor	.25
800-196	Power Output Transistor Assembly - Matched Pair (2 Req.)	5.00	22-3792	17 PF Disc Capacitor - 500V.	.25
			22-4572	500 MF Electrolytic Capacitor - 15V.	1.60
			22-4613	.001 MF Feed-Thru Capacitor - 500V. (2 Req.)	.10
			22-4617	.01 MF Disc Capacitor - 500V.	.10
			22-4843	Variable Capacitor	3.70
			22-4844	.002 MF Feed-Thru Capacitor - 500V. (2 Req.)	.25
			22-5321	36 PF Disc Capacitor	.15
			22-5485	1 PF Gimmick Capacitor	.25
			24-1621	Tuner Cover	.55
			43-571	Terminal Housing - 9 Contact (Used On 86-390 & 86-565)	.30
			43-874	Terminal Housing - 9 Contact (Used On 86-484 & 86-565)	.30
			52-1489	Two Conductor Shielded Lead (Used On 86-484)	.80
			52-1490	Two Conductor Shielded Lead (Used On 86-388)	.70
			52-1571	Two Conductor Shielded Cable (Used On 58-315)	1.20
			54-139	3/8-32 Nut (Used On 85-1027)	.03
			56-426	Roll Pin (6 Part Of S-79746)	.05
			58-315	Connector Plug (2 Req.)	.25
			61-222	Idle Pulley (3 Part Of Ea. S-79739 & S-79740)	.20
			63-1761	270 Ohm Resistor - 1/2W. 10%	.17
			63-1772	470 Ohm Resistor - 1/2W. 20%	.17
			63-1796	1800 Ohm Resistor - 1/2W. 10%	
			63-1810	3900 Ohm Resistor - 1/2W. 10%	.17
			63-1831	12K Ohm Resistor - 1/2W. 10%	
			63-1898	470K Ohm Resistor - 1/2W. 20% (3 Req.)	.17
			63-4122	33 Ohm Resistor - 1/4W. 10%	.17
			63-4196	1800 Ohm Resistor - 1/4W. 10%	.17
			76-1141	Guide Shaft	.10
			76-1772	Tuning Shaft (Part Of S-79746)	2.45
			78-1784	Dial Light Socket & Wire (3 Req.)	.90
			80-209	Drive Cord Tension Spring (Gang)	.10
			80-1140	Drive Cord Tension Spring (Pointer)	.05
			80-1467	Retaining Spring (Used On 85-1075)	.05
			80-1468	Grounding Spring (Used On 85-1075)	.05
			80-1951	Retainer Spring (Part Of S-79746)	.03
			83-4125	Two Lug Terminal Strip	.10
			83-4590	Felt Strip	.10
			83-5773	Three Lug Terminal Strip	.15
			83-6500	Two Lug Terminal Strip	.10
			83-6557	Antenna Mtg. Strip	.05
			83-6807	14 Lug Terminal Strip	.40
			83-6900	Antenna Protection Strip	.15
			85-1027	6 Position Bandswitch	9.25
			86-344	Connector Terminal (used on 78-1784)	.03
			86-388	Connector Terminal-Female (used on 52-1490)	.05
			86-390	Connector Terminal-Male (used on 43-571)	.03
			86-441	Insulated Feed-Thru Terminal (2 Req.)	.05
			86-484	Connector Terminal-Female (used on 52-1489)	.03
			86-565	Connector Terminal-Female (used on 43-571 & 43-874)	.10
			94-613	Iron Core Bushing (2 Req.)	.10
			94-1380	Insulating Bushing (2 Req.)	.03
			100-249	Pilot Light Bulb (3 Req.)	.18
			103-47	Diode	3.75
			103-74	Diode	.50
			113-10	6-32 x 3/16 x 1/4 Hex Hd. Mach. Screw-N.P. Internal Lockwasher Att. (4 Mt. 22-4843)	.03
			114-26	8-18 x 1/4 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (2 joints 12-4998 & S-79739 & 2 Mt. S-79739)	.03
			114-564	8-18 x 5/16 Hex Hd. Self-Tap. Screw-Stat. Bronze- (used on 17-130)	.03
			114-651	8-15 x 5/16 x 1/4 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze (joins 17-135 & S-79739)	.05
			114-801	8-18 x 5/16 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (2 used on S-79740 & 12-4889) (4 Req.)	.03
			114-802	8-18 x 5/16 x 1/4 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze (2 used on 94-1380)	.03
			114-803	6-20 x 1/4 x 1/4 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze (4 join S-79739 & Multiplex Assem.)	.03

CHASSIS 11ZT27

CONTROL PANEL PRE-AMP COMPONENTS

CHASSIS 11AT30

*Denotes parts not previously used in Zenith receivers.

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PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
22-3033	.02 MF Disc Capacitor-25V.	.35	63-1806	3300 Ohm Resistor-1/2W. 10%	.17
22-3034	.05 MF Disc Capacitor-25V. (12 Req.)	.45	63-1810	3900 Ohm Resistor-1/2W. 10% (2 Req.)	.17
22-3080	.005 MF Disc Capacitor-25V.	.25	63-1813	4700 Ohm Resistor-1/2W. 10% (5 Req.)	.17
22-3177	390 PF Disc Capacitor-500V. (2 Req.)	.25	63-1817	5600 Ohm Resistor-1/2W. 10%	.17
22-3255	330 PF Disc Capacitor-500V. (2 Req.)	.25	63-1820	6800 Ohm Resistor-1/2W. 10% (2 Req.)	.17
22-3310	2.7 MF Gimmick Capacitor-500V. (2 Req.)	.25	63-1824	8200 Ohm Resistor-1/2W. 10%	.17
22-3393	.01 MF Disc Capacitor-25V. (5 Req.)	.25	63-1827	10K Ohm Resistor-1/2W. 10% (5 Req.)	
22-3415	.0068 MF Disc Capacitor-25V.	.25	63-1831	12K Ohm Resistor-1/2W. 10% (3 Req.)	
22-3541	3.3 PF Gimmick Capacitor-500V.	.25	63-1834	15K Ohm Resistor-1/2W. 10%	.17
22-3558	16 PF Disc Capacitor-500V.	.25	63-1835	15K Ohm Resistor-1/2W. 10%	
22-3652	.1 MF Disc Capacitor-10V. (3 Req.)	.30	63-1841	22K Ohm Resistor-1/2W. 10%	
22-3661	.05 MF Disc Capacitor-100V.	.25	63-1845	27K Ohm Resistor-1/2W. 10% (2 Req.)	.17
22-3675	10 PF Disc Capacitor-500V.	.25	63-1848	33K Ohm Resistor-1/2W. 10% (3 Req.)	
22-3687	1 MF Electrolytic Capacitor-50V. (2 Req.)	1.50	63-1853	43K Ohm Resistor-1/2W. 5% (2 Req.)	
22-3721	200 MF Electrolytic Capacitor-35V. (2 Req.)	2.25	63-1855	47K Ohm Resistor-1/2W. 10%	
*22-3770	5.5 PF Disc Capacitor-500V.	.30	63-1869	100K Ohm Resistor-1/2W. 10%	.17
22-3791	42 PF Disc Capacitor-500V.	.25	63-1876	150K Ohm Resistor-1/2W. 10% (2 Req.)	.17
22-3792	17 PF Disc Capacitor-500V.	.25	63-1880	180K Ohm Resistor-1/2W. 10% (2 Req.)	
22-3896	5 MF Electrolytic Capacitor-25V.	1.00	63-1883	220K Ohm Resistor-1/2W. 10% (2 Req.)	.17
22-4568	100 MF Electrolytic Capacitor-15V. (2 Req.)	.95	63-1897	470K Ohm Resistor-1/2W. 10% (2 Req.)	.17
22-4572	500 MF Electrolytic Capacitor-15V. (2 Req.)	1.60	63-1898	470K Ohm Resistor-1/2W. 20% (4 Req.)	.17
22-4617	.01 MF Disc Capacitor-500V. (2 Req.)	.10	63-1904	680K Ohm Resistor-1/2W. 10%	.17
22-4855	Trimmer Capacitor	.45	63-4122	33 Ohm Resistor-1/4W. 10%	.17
22-5362	1000 MF Electrolytic Capacitor-50V.	4.05	63-4185	1000 Ohm Resistor-1/4W. 10%	.17
22-5480	390 PF Mica Capacitor-100V.	.50	63-4196	1800 Ohm Resistor-1/4W. 10%	.17
22-5481	560 PF Disc Capacitor-500V. (2 Req.)	.25	63-4213	4700 Ohm Resistor-1/4W. 10%	.17
22-5482	680 PF Disc Capacitor-500V. (2 Req.)	.25	63-4501	1 Ohm Resistor-1/2W. 10%	.15
22-5483	1500 PF Disc Capacitor-500V.	.25	63-5659	560 Ohm Resistor-2W. 10%	
22-5486	10 MF Electrolytic Capacitor-6V.	.95	63-6045	270 Ohm Resistor-1W. 10%	.20
22-5487	47 MF Disc Capacitor-3V. (2 Req.)	.45	63-6066	820 Ohm Resistor-1W. 10%	.25
*22-5638	.47 MF Capacitor-100V.		63-6495	Mute Control	1.00
22-5639	.22 MF Capacitor-100V. (2 Req.)	.45	*63-7681	Dual Treble Control	
*22-5780	270 PF Polystyrene Capacitor-500V.	.15	*63-7682	Dual Bass Control	
-OR-			63-7683	Dual Loudness Control	
22-3424	270 PF Capacitor-100V.	.35	*63-7684	Balance Control & Switch	
*22-5781	1000 PF Polystyrene Capacitor-500V. (3 Req.)	.15	64-288	Shoulder Rivet (1 part of ea. S-82399, & S-82401, 2 Part of S-82400) (4 Req.)	.03
22-5782	2200 PF Polystyrene Capacitor-500V. (2 Req.)		*76-1902	Tuning Shaft	
*22-5812	Variable Capacitor		*78-1866	Dial Light Socket & Wire	
*22-5814	.022 MF Mylar Capacitor-100V. (4 Req.)		*78-1867	Dial Light Socket & Wire	
*22-5815	.056 MF Mylar Capacitor-100V. (2 Req.)		*78-1868	Dial Light Socket & Wire	
*22-5878	5.5 PF Disc Capacitor-50V.		80-1964	Tension Spring	.25
*22-5879	3.3 PF Disc Capacitor-50V.		80-2066	Tension Spring (used on 76-1902)	.03
*26-1575	Dial Scale	1.85	*82-152	Oscillator Coil Grounding Strap	
43-571	Nine Contact Housing	.30	*82-153	2ND I.F. Grounding Strap	
52-1425	Two Conductor Shielded Cable	1.15	*82-154	3RD I.F. Grounding Strap	
52-1443	Four Conductor Cable (Approx. 6")		83-3404	Three Lug Terminal Strip	.05
52-1529	Three Conductor Cable (Approx. 28")		*83-7196	Two Lug Terminal Strip	
*52-1588	Two Conductor Shielded Lead		*83-7197	Two Lug Terminal Strip	
*52-1589	Two Conductor Shielded Lead		*83-7233	Antenna Mtg. Strip	
*52-1590	Two Conductor Shielded Lead		*83-7417	Antenna Protective Strip	
*52-1591	Two Conductor Shielded Lead		*85-1058	Bandswitch	
54-139	3/8-32 x 9/16 Palnut (5 Req.)	.03	86-312	Terminal	.03
54-334	Tinnerman Speed Nut (1 used on ea. 114-591) (4 Req.)		86-357	Connector Terminal (2 Req.)	.03
54-804	Zip Twist Palnut (6 used on S-82432)	.03	86-388	Connector Terminal (3 Req.)	.05
54-828	1/2"-20 Palnut		86-390	Connector Terminal (9 Req.)	.03
54-835	Tinnerman Nut (21 Req.)		86-398	Connector Terminal (19 Req.)	.10
*54-838	Tinnerman Nut (17 Req.)		86-500	Terminal (20 Req.)	.03
*54-839	Tinnerman Nut		93-1833	Transistor Insulating Washer (2 Req.)	.03
58-214	Single Prong Plug (2 Req.)	.10	94-1532	Nylon Shaft Bushing	
*59-1016	Dial Pointer-FM		95-2541	Transformer-AM 1ST. I.F.	1.75
*59-1017	Dial Pointer-AM		95-2542	Transformer-AM 2ND I.F.	1.75
63-1701	10 Ohm Resistor-1/2W. 10%	.17	95-2543	Transformer-3RD. I.F.	1.95
63-1708	15 Ohm Resistor-1/2W. 10% (2 Req.)	.17	95-2544	Transformer-AM-Oscillator	1.45
63-1740	82 Ohm Resistor-1/2W. 10% (2 Req.)	.17	95-2545	Transformer-AM Ratio Detector	2.65
63-1761	270 Ohm Resistor-1/2W. 10%	.17	95-2546	Transformer-FM 1ST. I.F.	1.95
63-1768	390 Ohm Resistor-1/2W. 10% (6 Req.)	.17	95-2547	Transformer-FM 2ND. I.F.	2.00
63-1771	470 Ohm Resistor-1/2W. 10% (4 Req.)	.17	95-2548	Transformer-FM 3RD. I.F.	2.10
63-1772	470 Ohm Resistor-1/2W. 20% (4 Req.)	.17	100-249	Pilot Light (3 Req.)	.18
63-1775	560 Ohm Resistor-1/2W. 10% (2 Req.)	.17	103-23	Germanium Diode (6 Req.)	.75
63-1778	680 Ohm Resistor-1/2W. 10% (3 Req.)	.17	103-47	Diode	3.75
63-1782	820 Ohm Resistor-1/2W. 10%	.17	103-74	Germanium Diode	.50
63-1785	1000 Ohm Resistor-1/2W. 10% (4 Req.)		103-90	Germanium Diode-Matched	2.00
63-1789	1200 Ohm Resistor-1/2W. 10% (2 Req.)	.17	103-96	Diode	1.90
63-1796	1800 Ohm Resistor-1/2W. 10%		103-145	Diode (2 Req.)	.50
63-1799	2200 Ohm Resistor-1/2W. 10% (7 Req.)	.17	*105-106	Integnet	
63-1803	2700 Ohm Resistor-1/2W. 10% (2 Req.)				

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PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
114-564	8-18 x 5/16 Hex Hd. Self-Tap. Screw-Stat		22-3661	.05 MF Disc Capacitor-100V.	.25
	Bronze-Flat Washer Att. (2 used on 83-7417)		22-3675	10 PF Disc Capacitor-500V.	.25
114-591	4-24 x 3/8 x 3/16 Slotted Hex Hd. Self-Tap.		22-3721	200 MF Electrolytic Capacitor-35V. (2 Req.)	2.25
	Screw-Cadmium (2 used on ea. 800-289)		22-3770	5.5 PF Disc Capacitor-500V.	.30
	(4 Req.)		22-3791	42 PF Disc Capacitor-500V.	.25
114-801	8-18 x 5/16 Hex Hd. Self-Tap. Screw-Stat. Bronze		22-3792	17 PF Disc Capacitor-500V.	.25
	(1 Mts. Ea. S-82399, 17-143 & 2 Mt. Ea. S-82104,		22-3896	5 MF Electrolytic Capacitor-25V.	1.00
	S-82400, & 12-5166 & 4 Mts. S-82401 & 2		22-4568	100 MF Electrolytic Capacitor-15V. (2 Req.)	.95
	2 joins ea. S-82401 & S-82399 & S-82401 &		22-4572	500 MF Electrolytic Capacitor-15V. (2 Req.)	1.60
	S-82400) (21 Req.)	.03	22-4617	.01 MF Disc Capacitor-500V. (2 Req.)	.10
114-803	6-20 x 1/4 Hex Washer Hd. Self-Tap. Screw-Stat.		22-4855	Trimmer Capacitor	.45
	Bronze (1 Mts. 83-7196)	.03	22-5091	2 MF Electrolytic Capacitor-15V. (2 Req.)	.80
121-430	Transistor-Driver (2 Req.)	1.10	22-5362	1000 MF Electrolytic Capacitor-50V.	4.05
121-433	Transistor-Pre-Amp. (2 Req.)	1.30	22-5480	390 PF Mica Capacitor-100V.	.50
121-546	Transistor-2ND, & 3RD I.F. (2 Req.)	.80	22-5481	560 PF Disc Capacitor-500V. (2 Req.)	.25
121-612	Transistor-R.F. (FM)	.90	22-5482	680 PF Disc Capacitor-500V. (2 Req.)	.25
121-613	Transistor-Autodyne Converter-FM	.80	22-5483	1500 PF Disc Capacitor-500V.	.25
121-614	Transistor-1ST. I.F. Amp.	.80	22-5486	10 MF Electrolytic Capacitor-6V.	.95
121-639	Transistor-Composite Amp. (4 Req.)	.70	22-5487	.47 MF Disc Capacitor-3V. (2 Req.)	.45
121-706	Transistor-Audio Driver (2 Req.)	.85	22-5638	.47 MF Capacitor-100V.	.70
121-714	Transistor-AM-FM I.F.	.80	22-5639	.22 MF Capacitor-100V. (2 Req.)	.45
126-1336	Coil Shield	.20	22-5640	.0056 MF Mylar Capacitor-100V. (4 Req.)	.30
149-311	Ferrite Core	.05	*22-5780	270 PF Polystyrene Capacitor-500V.	.15
*171-66	Stereo Indicator Lens		-OR-		
188-140	Retaining Ring	.03	22-3424	270 PF Capacitor-100V.	.35
188-155	Clamping Ring (Part of S-82433)	.05	*22-5781	1000 PF Polystyrene Capacitor-500V. (3 Req.)	.15
199-265	Shielded Paper Sleeve	.03	-OR-		
199-436	Shielded Paper Sleeve	.05	22-3613	1000 PF Mica Capacitor	.50
212-71	Silicon Rectifier (2 Req.)	1.25	*22-5782	2200 PF Polystyrene Capacitor-500V. (2 Req.)	.15
800-289	Output Transistor Assem.-Matched Pair		-OR-		
	(2 Req.)	5.00	22-3635	2200 PF Mica Capacitor	1.05
S-79435	Trap Coil Assem.	1.00	*22-5812	4 Section Variable Capacitor	6.35
S-79436	Doubler Coil Assem.	2.50	*22-5814	.022 MF Mylar Capacitor-100V. (4 Req.)	.30
S-79437	Detector Coil Assem.	2.50	*22-5878	5.5 PF Disc Capacitor-25V.	.10
S-79438	Input Coil Assem.	2.30	*22-5879	3.3 PF Disc Capacitor-25V.	.10
*S-82104	Wave Magnet Antenna Assem.		*22-5883	.033 MF Mylar Capacitor-100V. (2 Req.)	
S-82399	Bracket & Pulley Assem. (Left)		*22-5884	.082 MF Mylar Capacitor-100V. (2 Req.)	.35
*S-82400	Bracket & Pulley Assem. (Right)		*26-1578	Dial Scale	
S-82401	Bandswitch Bracket Assem.		43-571	9 Contact Housing	.30
*S-82402	Dial Light Shield Assem.		52-1287	Three Conductor Cable (Approx. 10")	.15
*S-82433	Drive Pulley Assem.		52-1443	Three Conductor Cable (Approx. 6")	
*S-82434	Drive Cord & Eyelet Assem.		*52-1588	Two Conductor Shielded Lead	1.00
*S-82435	Drive Cord & Eyelet Assem. (Pointer)		*52-1589	Two Conductor Shielded Lead	.85
			*52-1590	Two Conductor Shielded Lead	.70
			*52-1591	Two Conductor Shielded Lead	.70
			*52-1650	Two Conductor Shielded Cable (Part of S-83909)	1.00
			54-139	3/8-32 x 9/16 Palnut (5 Req.)	.03
			54-808	Tinnerman Speed Nut (1 used on ea. 114-591)	.03
			*54-828	1/2"-20 Palnut	.03
			*54-838	Tinnerman Nut (17 Req.)	.03
			*54-839	Tinnerman Nut	.05
			58-214	Single Prong Plug (2 Part of S-83909)	.10
			*59-1016	Dial Pointer (FM)	.55
			*59-1017	Dial Pointer (AM)	.55
			63-1701	10 Ohm Resistor-1/2W. 10%	.17
			63-1708	15 Ohm Resistor-1/2W. 10% (2 Req.)	.17
			63-1733	56 Ohm Resistor-1/2W. 10% (2 Req.)	.17
			63-1761	270 Ohm Resistor-1/2W. 10%	.17
			63-1768	390 Ohm Resistor-1/2W. 10% (6 Req.)	.17
			63-1771	470 Ohm Resistor-1/2W. 10% (4 Req.)	.17
			63-1772	470 Ohm Resistor-1/2W. 20% (4 Req.)	.17
			63-1775	560 Ohm Resistor-1/2W. 10% (2 Req.)	.17
			63-1778	680 Ohm Resistor-1/2W. 10% (3 Req.)	.17
			63-1782	820 Ohm Resistor-1/2W. 10%	.17
			63-1785	1000 Ohm Resistor-1/2W. 10% (4 Req.)	
			63-1789	1200 Ohm Resistor-1/2W. 10% (4 Req.)	.17
			63-1796	1800 Ohm Resistor-1/2W. 10%	
			63-1799	2200 Ohm Resistor-1/2W. 10% (7 Req.)	.17
			63-1803	2700 Ohm Resistor-1/2W. 10% (2 Req.)	
			63-1806	3300 Ohm Resistor-1/2W. 10%	.17
			63-1810	3900 Ohm Resistor-1/2W. 10% (2 Req.)	.17
			63-1813	4700 Ohm Resistor-1/2W. 10% (7 Req.)	.17
			63-1817	5600 Ohm Resistor-1/2W. 10%	.17
			63-1824	8200 Ohm Resistor-1/2W. 10%	.17
			63-1827	10K Ohm Resistor-1/2W. 10% (5 Req.)	
			63-1831	12K Ohm Resistor-1/2W. 10% (7 Req.)	
			63-1834	15K Ohm Resistor-1/2W. 10%	.17
CHASSIS 20AT31Z					
*12-5166	Dial Background Mtg. Bracket	.90			
*12-5169	Bandswitch & Tuning Bracket (Part of S-82401)				
*12-5170	Control Mtg. Bracket	1.60			
17-156	Nylon Clamp (2 Req.)				
19-448	Ground Clip (1 used on 52-1588 & 52-1589)				
	(2 Req.)	.10			
*20-1256	Trap Coil (10.7 MHz)	.50			
20-1648	FM R.F. Coil	.35			
*20-1649	FM Oscillator Coil	.50			
*20-1744	FM Antenna Coil	.05			
20-2033	Peaking Coil	.40			
22-5	100 PF Disc Capacitor-500V. (2 Req.)	.25			
22-14	.0047 MF Disc Capacitor-500V. (2 Req.)	.25			
22-16	470 PF Disc Capacitor-500V. (2 Req.)	.25			
22-2428	1.8 PF Gimmick Capacitor-500V.	.25			
22-2513	7 PF Disc Capacitor-500V.	.25			
22-2729	.001 MF Disc Capacitor-25V. (3 Req.)	.25			
22-2884	5 MF Electrolytic Capacitor-12V. (4 Req.)	1.50			
22-2939	680 PF Disc Capacitor-500V. (2 Req.)	.25			
22-3033	.02 MF Disc Capacitor-25V.	.35			
22-3034	.05 MF Disc Capacitor-25V. (12 Req.)	.45			
22-3080	.005 MF Disc Capacitor-25V.	.25			
22-3177	390 PF Disc Capacitor-500V. (2 Req.)	.25			
22-3255	330 PF Disc Capacitor-500V. (2 Req.)	.25			
22-3310	2.7 PF Gimmick Capacitor-500V. (2 Req.)	.25			
22-3362	560 PF Disc Capacitor	.25			
22-3393	.01 MF Disc Capacitor-25V. (5 Req.)	.25			
22-3415	.0068 MF Disc Capacitor-25V.	.25			
22-3541	3.3 PF Gimmick Capacitor-500V.	.25			
22-3558	16 PF Disc Capacitor-500V.	.25			
22-3652	.1 MF Disc Capacitor-10V. (3 Req.)	.30			

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PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
*22-3770	5.5 PF Disc Capacitor - 500V.	.30	63-1825	9100 Ohm Resistor - 1/2W, 5%	.34
22-3791	42 PF Disc Capacitor - 500V.	.25	63-1826	10K Ohm Resistor - 1/2W, 5%	
22-3792	17 PF Disc Capacitor - 500V.	.25	63-1827	10K Ohm Resistor - 1/2W, 10% (5 Req.)	
22-3896	5 MF Electrolytic Capacitor - 25V.	1.00	63-1831	12K Ohm Resistor - 1/2W, 10% (3 Req.)	
22-4568	100 MF Electrolytic Capacitor - 15V. (2 Req.)	.95	63-1834	15K Ohm Resistor - 1/2W, 10%	.17
22-4572	500 MF Electrolytic Capacitor - 15V. (2 Req.)	1.60	63-1835	15K Ohm Resistor - 1/2W, 20%	
22-4617	.01 MF Disc Capacitor - 500V. (2 Req.)	.10	63-1841	22K Ohm Resistor - 1/2W, 10%	
22-4855	Trimmer Capacitor	.45	63-1845	27K Ohm Resistor - 1/2W, 10% (2 Req.)	.17
22-4909	1 MF Electrolytic Capacitor - 25V.	.90	63-1848	33K Ohm Resistor - 1/2W, 10% (2 Req.)	.17
22-5362	1000 MF Electrolytic Capacitor - 50V.	4.05	63-1853	43K Ohm Resistor - 1/2W, 5% (2 Req.)	.34
22-5480	390 PF Mica Capacitor - 100V.	.50	63-1855	47K Ohm Resistor - 1/2W, 10%	
22-5481	560 PF Disc Capacitor - 500V. (2 Req.)	.25	63-1869	100K Ohm Resistor - 1/2W, 10%	.17
22-5482	680 PF Disc Capacitor - 500V. (2 Req.)	.25	63-1876	150K Ohm Resistor - 1/2W, 10% (2 Req.)	.17
22-5483	1500 PF Disc Capacitor - 500V.	.25	63-1880	180K Ohm Resistor - 1/2W, 10% (2 Req.)	
22-5486	10 MF Electrolytic Capacitor - 6V.	.95	63-1883	220K Ohm Resistor - 1/2W, 10% (2 Req.)	.17
22-5487	47 MF Disc Capacitor - 3V. (2 Req.)	.45	63-1897	470K Ohm Resistor - 1/2W, 10% (2 Req.)	.17
22-5639	.22 MF Capacitor - 100V. (2 Req.)	.45	63-1898	470K Ohm Resistor - 1/2W, 20% (4 Req.)	.17
22-5687	.0022 MF Disc Capacitor (2 Req.)	.15	63-1904	680K Ohm Resistor - 1/2W, 10%	.17
*22-5780	270 PF Polystyrene Capacitor - 500V.	.15	63-4122	33 Ohm Resistor - 1/4W, 10%	.17
-OR-			63-4185	1000 Ohm Resistor - 1/4W, 10%	.17
22-3424	270 PF Capacitor - 100V.	.35	63-4196	1800 Ohm Resistor - 1/4W, 10%	.17
*22-5781	1000 PF Polystyrene Capacitor - 500V. (2 Req.)	.15	63-4213	4700 Ohm Resistor - 1/4W, 10%	.17
-OR-			63-4501	1 Ohm Resistor - 1/2W, 10% (2 Req.)	.15
22-3613	1000 PF Mica Capacitor (2 Req.)	.50	63-5659	560 Ohm Resistor - 2W, 10%	.34
22-5782	2200 PF Polystyrene Capacitor - 500V. (2 Req.)	.15	63-6495	Mute Control	1.00
-OR-			*63-7681	Dual Treble Control	2.60
22-3635	2200 PF Mica Capacitor (2 Req.)	1.05	*63-7682	Dual Bass Control	2.50
*22-5814	.022 MF Mylar Capacitor - 100V. (4 Req.)	.30	63-7683	Dual Loudness Control	2.95
*22-5815	.056 MF Mylar Capacitor - 100V. (2 Req.)	.30	*63-7684	Balance Control & Switch	3.30
*22-5878	5.5 PF Disc Capacitor - 50V.	.10	64-288	Shoulder Rivet (1 Part Of S-85564 & 2 Part Of Ea. S-85563 & S-85565) (5 Req.)	.03
*22-5879	3.3 PF Disc Capacitor - 50V.	.10			
*22-6048	.22 MFD. Capacitor - 75V. (2 Req.)		*76-1987	Tuning Shaft	
*22-6051	Four Section Variable Capacitor		*78-1937	Dial Light Socket & Wire	
43-571	Nine Contact Housing	.30	80-2069	Tension Spring	.05
44-48	Connector Jack (4 Part Of S-79667)	.20	*82-152	Oscillator Coil Grounding Strap	.25
52-1062	Two Conductor Cable (Approx. 20")	.10	*82-154	3rd. I.F. Grounding Strap	.40
52-1425	Two Conductor Shielded Cable (Used On 58-214)	1.15	82-165	Grounding Strap (Part Of S-85104)	
52-1443	Four Conductor Cable (Approx. 6")	.15	83-1961	Antenna Terminal Strip	.35
52-1530	Three Conductor Cable (Approx. 28")		83-3404	Three Lug Terminal Strip	.05
*52-1588	Two Conductor Shielded Lead	1.00	*83-7196	Two Lug Terminal Strip	.45
*52-1589	Two Conductor Shielded Lead	.85	*83-7197	Two Lug Terminal Strip (Part Of S-85559)	.05
*52-1590	Two Conductor Shielded Lead	.70	*83-7233	Antenna Mtg. Strip	.20
*52-1591	Two Conductor Shielded Cable	.70	*83-7417	Antenna Protective Strip	.20
54-139	3/8-32 x 9/16 Palnut (1 Used On Ea. 63-7681, 63-7682, 63-7683 & 63-7684) (5 Req.)	.03	*85-1058	Bandswitch	8.65
54-334	Tinnerman Speed Nut (1 Used On Ea. 114-591) (4 Req.)	.03	86-357	Connector Terminal (2 Req.)	.03
54-828	1/2"-20 Palnut		86-390	Connector Terminal (9 Req.)	.03
*54-851	Palnut (17 Join Chassis Frame & Chassis Bd.)	.03	86-449	Connector Terminal (Used On 52-1062)	.10
*57-7850	Side Plate		-OR-		
*57-8147	Side Plate (Gang)		86-357	Connector Terminal (Used On 52-1062)	.03
58-214	Single Prong Plug (2 Req.)	.10	86-450	Connector Terminal (Used On 52-1062)	.10
*59-1081	Pointer (Dial)		-OR-		
61-222	Idler Pulley (7 Req.)	.20	86-344	Connector Terminal (Used On 52-1062)	.03
63-1701	10 Ohm Resistor - 1/2W, 10%	.17	86-500	Terminal (15 Req.)	.03
63-1708	15 Ohm Resistor - 1/2W, 10% (2 Req.)	.17	86-565	Connector Terminal (3 Req.)	
63-1740	82 Ohm Resistor - 1/2W, 10% (2 Req.)	.17	93-1833	Transistor Insulating Washer (2 Req.)	.03
63-1761	270 Ohm Resistor - 1/2W, 10%	.17	*93-1906	No. 4 Flat Washer (Output Transistors)	
63-1764	330 Ohm Resistor - 1/2W, 10% (2 Req.)	.17	94-1532	Nylon Shaft Bushing	.20
63-1768	390 Ohm Resistor - 1/2W, 10%	.17	*94-1545	Nylon Insulating Bushing (Used Only When 800-312 Is Used)	
63-1769	430 Ohm Resistor 1/2W, 5% (4 Req.)		95-2541	Transformer - AM 1st. I.F. AM 455 KHz	1.75
63-1771	470 Ohm Resistor - 1/2W, 10% (4 Req.)	.17	95-2542	Transformer - AM 2nd. I.F. AM 455 KHz	1.75
63-1772	470 Ohm Resistor - 1/2W, 20% (4 Req.)	.17	95-2543	Transformer - 3rd. I.F. AM 455 KHz	1.95
63-1775	560 Ohm Resistor - 1/2W, 10% (2 Req.)	.17	95-2545	Transformer - AM Ratio Detector 10.7 MHz	2.65
63-1778	680 Ohm Resistor - 1/2W, 10% (5 Req.)	.17	95-2546	Transformer - FM 1st. I.F. 10.7 MHz	1.95
63-1782	820 Ohm Resistor - 1/2W, 10% (2 Req.)	.17	95-2547	Transformer - FM 2nd. I.F. 10.7 MHz	2.00
63-1785	1000 Ohm Resistor - 1/2W, 10% (3 Req.)		95-2548	Transformer - FM 3rd. I.F. 10.7 MHz	2.10
63-1789	1200 Ohm Resistor - 1/2W, 10% (2 Req.)	.17	95-2625	Transformer - AM - Oscillator	1.15
63-1796	1800 Ohm Resistor - 1/2W, 10%		100-249	Pilot Light	.18
63-1799	2200 Ohm Resistor - 1/2W, 10% (7 Req.)	.17	103-23	Germanium Diode (4 Req.)	.75
63-1803	2700 Ohm Resistor - 1/2W, 10% (2 Req.)		103-47	Diode - AFC	3.75
63-1806	3300 Ohm Resistor - 1/2W, 10% (2 Req.)	.17	-OR-		
63-1810	3900 Ohm Resistor - 1/2W, 10% (2 Req.)	.17	*103-189	Silicon Diode	3.75
63-1813	4700 Ohm Resistor - 1/2W, 10% (3 Req.)	.17	103-74	Germanium Diode	.50
63-1817	5600 Ohm Resistor - 1/2W, 10%	.17	103-90	Germanium Diode - Matched	2.00
63-1820	6800 Ohm Resistor - 1/2W, 10% (2 Req.)	.17	103-96	Diode	1.90
63-1824	8200 Ohm Resistor - 1/2W, 10% (2 Req.)	.17	103-145	Diode (2 Req.)	.50
			*105-107	Integnet (2 Req.)	1.00

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PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
114-342	6-20 x 3/16 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (Used On 83-7196)	.03	22-3177	390 PF Disc Capacitor - 500V. (2 Req.)	.25
114-591	4-24 x 3/8 x 3/16 Slotted Hex Hd. Self-Tap. Screw - Cadmium (2 Used On Ea. 800-289 Or 800-312) (4 Req.)	.03	22-3255	330 PF Disc Capacitor - 500V. (2 Req.)	.25
114-689	8-18 x 1/2 Hex Hd. Special Washer (Spinlock) Self-Tap. Screw-Stat. Bronze (2 Mt. S-82104)	.03	22-3310	2.7 PF Gimmick Capacitor - 500V. (2 Req.)	.25
114-801	8-18 x 5/16 Hex Hd. Self-Tap. Screw-Stat. Bronze (1 Mts. Ea. S-85563 & S-85564, 2 Mts. Ea. 12-5420, 57-7850 & S-85565 & 5 Mt. S-85559) (16 Req.)	.03	22-3393	.01 MF Disc Capacitor - 25V. (5 Req.)	.25
114-802	8-18 x 5/16 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze (1 Mts. Ea. 17-130 & 17-156) (2 Req.)	.03	22-3415	.0068 MF Disc Capacitor - 25V.	.25
121-430	Transistor - Driver (2 Req.)	1.10	22-3541	3.3 PF Gimmick Capacitor $\pm$ 5% - 500V.	.25
121-433	Transistor - Pre-Amp. (2 Req.)	1.30	22-3558	16 PF Disc Capacitor $\pm$ 5% - 500V.	.25
121-546	Transistor - 2nd. & 3rd. I.F. (2 Req.)	.80	22-3652	.1 MF Disc Capacitor - 10V. (3 Req.)	.30
121-612	Transistor - R.F. (FM)	.90	22-3661	.05 MF Disc Capacitor - 100V.	.25
121-613	Transistor - Autodyne Converter - FM	.80	22-3675	10 PF Disc Capacitor $\pm$ 5% - 500V.	.25
121-614	Transistor - 1st. I.F. Amp.	.80	22-3687	1 MF Electrolytic Capacitor - 50V. (2 Req.)	1.50
121-639	Transistor - Composite Amp. (3 Req.)	.70	22-3721	200 MF Electrolytic Capacitor - 35V. (2 Req.)	2.25
121-706	Transistor - Audio Driver (2 Req.)	.85	22-3770	5.5 PF Disc Capacitor $\pm$.25 PF - 500V.	.30
121-714	Transistor - AM - FM I.F.	.80	22-3791	42 PF Disc Capacitor $\pm$ 5% - 500V.	.25
121-737	Transistor - Stereo Ind. Switch	.95	22-3792	17 PF Disc Capacitor $\pm$ 5% - 500V.	.25
121-762	Transistor - Detector	1.30	22-3896	5 MF Electrolytic Capacitor - 25V.	1.00
126-1336	Coil Shield	.20	22-4568	100 MF Electrolytic Capacitor - 15V. (2 Req.)	.95
149-311	Ferrite Core	.05	22-4572	500 MF Electrolytic Capacitor - 15V. (2 Req.)	1.60
188-140	Retaining Ring	.03	22-4617	.01 MF Disc Capacitor - 500V. (2 Req.)	.10
188-155	Clamping Ring (Part Of S-85569)	.05	22-4855	Trimmer Capacitor - 1.7 To 10 PF Ceramic	.45
212-71	Silicon Rectifier (2 Req.)	1.25	22-4909	1 MF Electrolytic Capacitor - 25V.	.90
*800-312	Output Transistor Assem. - Matched Pair	5.00	22-5362	1000 MF Electrolytic Capacitor - 50V.	4.05
-OR-			22-5480	390 PF Mica Capacitor - 100V.	.50
800-289	Output Transistor Assem. - Matched Pair	5.00	22-5481	560 PF Disc Capacitor - 500V. (2 Req.)	.25
S-79435	Trap Coil Assem. - 67 KHz	1.00	22-5482	680 PF Disc Capacitor - 500V. (6 Req.)	.25
S-79436	Doubler Coil Assem. - 19 KHz	2.50	22-5483	1500 PF Disc Capacitor - 500V.	.25
S-79438	Input Coil Assem.	2.30	22-5486	10 MF Electrolytic Capacitor - 6V.	.95
S-79667	Antenna Tape & Input Bracket Assem.	2.10	22-5487	.47 MF Disc Capacitor - 3V. (2 Req.)	.45
*S-82104	Wave Magnet Antenna Assem.	2.20	22-5780	270 PF Polystyrene Capacitor $\pm$ 5% - 500V.	.15
S-82528	Antenna Cable & Terminal Assem.	.20	-OR-		
S-84181	Multiplex Detector Coil Assem. - 38 KHz	1.70	22-3424	270 PF Mica Capacitor $\pm$ 5% - 100V.	.35
S-85104	I.F. Grounding Strap, Braid & Clip Assem.		22-5781	1000 PF Polystyrene Capacitor $\pm$ 5% - 500V. (2 Req.)	.15
*S-85559	Control Mtg. Bracket Assem.		-OR-		
*S-85562	Drive Cord Eyelet Assem.		22-3613	1000 PF Mica Capacitor $\pm$ 5% - 100V. (2 Req.)	.50
*S-85563	Pulley Mtg. Bracket Assem. (2 Req.)		22-5782	2200 PF Polystyrene Capacitor $\pm$ 5% - 500V.	.15
*S-85564	Pulley Mtg. Bracket Assem.		-OR-		
*S-85565	Pointer Guide Bracket Assem.		22-3635	2200 PF Mica Capacitor $\pm$ 5% - 100V.	1.05
*S-85569	Drive Pulley Assem.		22-5814	.022 MF Mylar Capacitor $\pm$ 10% - 100V. (4 Req.)	.30
*S-86475	Pulley Mtg. Bracket Assem.		22-5815	.056 MF Mylar Capacitor $\pm$ 10% - 100V. (2 Req.)	.30
CHASSIS 21BT34			22-5878	5.5 PF Disc Capacitor $\pm$.5 PF - 50V.	.10
12-5420	Background Bracket		22-5879	3.3 PF Disc Capacitor $\pm$.25 PF - 50V.	.10
*12-5425	Pulley Mtg. Bracket (Part Of S-85563 & S-86475) (2 Req.)		22-6048	.22 MF Disc Capacitor $\pm$ 10% - 50V. (2 Req.)	
*12-5524	Control Mtg. Bracket		*22-6136	2000 PF Polystyrene Capacitor $\pm$ 5% - 100V.	
17-130	Cable Clamp	.25	*22-6137	5 Section Variable Capacitor - FM Detector Trimmer, FM Detector Tuning - FM Oscillator Tuning - AM Antenna Trimmer - AM Antenna Tuning - AM Oscillator Tuning - AM Oscillator Trimmer - FM Antenna Trimmer - FM Antenna Tuning	
17-156	Cable Clamp		52-1062	3.3 MF Electrolytic Capacitor - 15V.	
19-480	Retaining Clip	.03	52-1425	PC Board Support Frame	
19-485	Speed Clip	.10	52-1443	9 Contact Housing (Used On 86-390)	.30
19-614	Clip (Part Of S-85104)		52-1530	Connector Jack (4 Part Of S-79667)	.20
20-1256	Trap Coil - 10.7 MHz	.50	52-1588	2 Conductor Cable (Used On 86-449 Or 86-357, 86-450 Or 86-344)	.10
20-1648	FM R.F. Coil	.35	52-1589	2 Conductor Shielded Cable (Used On 58-214)	1.15
20-1649	FM Oscillator Coil	.50	52-1590	4 Conductor Cable - Approx. 6" (Used On S-82104)	.15
20-2033	Peaking Coil	.40	*52-1884	3 Conductor Cable - Approx. 28" (Used On 83-3404)	
20-3291	FM Antenna Coil		54-139	2 Conductor Shielded Lead (Part Of S-79667)	1.00
22-5	100 PF Disc Capacitor $\pm$ 20% - 500V. (2 Req.)	.25	54-334	2 Conductor Shielded Lead (Part Of S-82528)	.85
22-13	.0033 MF Disc Capacitor - 25V.	.25	54-828	2 Conductor Shielded Lead (Used On 85-1170)	.70
22-14	.0047 MF Disc Capacitor - 500V. (2 Req.)	.25	54-851	2 Conductor Shielded Cable	
22-16	470 PF Disc Capacitor - 500V. (2 Req.)	.25	57-7850	3/8-32 x 9/16 Palnut (1 Used On 63-7681, 63-7682, 63-7683, 63-7684 & 114-802) (5 Req.)	.03
22-18	.0022 MF Disc Capacitor - 500V. (2 Req.)	.25	57-8147	Tinnerman Speed Nut (1 Used On Ea. 114-591) (4 Req.)	.03
22-2428	1.8 PF Gimmick Capacitor - 500V.	.25	58-214	1/2-20 Palnut (Used On 114-802)	.03
22-2481	8 PF Disc Capacitor $\pm$.25 PF - 500V. (3 Req.)	.25	59-1081	Tinnerman Speed Nut (17 Join PC Board & 33-327)	
22-2729	.001 MF Disc Capacitor - 25V. (3 Req.)	.25	61-222	Side Plate	
22-2884	5 MF Electrolytic Capacitor - 12V. (4 Req.)	1.50		Side Plate (Gang)	
22-2939	680 PF Disc Capacitor - 500V. (4 Req.)	.25		Single Prong Plug (2 Used On 52-1425)	.10
22-3033	.02 MF Disc Capacitor - 25V.	.35		Pointer (Dial)	
22-3034	.05 MF Disc Capacitor - 25V. (12 Req.)	.45		Idler Pulley (1 Used On S-85564, 2 Used On S-85565, S-86475 & 1 Used On Ea. S-85563) (6 Req.)	.20
22-3080	.005 MF Disc Capacitor - 25V.	.25			

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PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
63-1701	10 Ohm Resistor - 1/2W. 10%	.17	95-2544	Transformer - AM Oscillator	1.45
63-1708	15 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	95-2545	Transformer - FM Ratio Detector 10.7 MHz	2.65
63-1740	82 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	95-2546	Transformer - FM 1st. I.F. 10.7 MHz	1.95
63-1761	270 Ohm Resistor - 1/2W. 10%	.17	95-2547	Transformer - FM 2nd. I.F. 10.7 MHz	2.00
63-1764	330 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	95-2548	Transformer - FM 3rd. I.F. 10.7 MHz	2.10
63-1768	390 Ohm Resistor - 1/2W. 10%	.17	95-2856	Doubler Coil 19 KHz	
63-1769	430 Ohm Resistor - 1/2W. 5% (4 Req.)	.17	95-2857	Detector Coil 38 KHz	
63-1771	470 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	95-2858	Input Coil 19 KHz	
63-1772	470 Ohm Resistor - 1/2W. 20% (4 Req.)	.17	100-249	Indicator Lamp	.03
63-1775	560 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	103-23	Germanium Diode (4 Req.)	.75
63-1778	680 Ohm Resistor - 1/2W. 10% (6 Req.)	.17	103-47	Silicon Diode - AFC	3.75
63-1782	820 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	-OR-		
63-1785	1000 Ohm Resistor - 1/2W. 10% (4 Req.)		103-189	Silicon Diode	3.75
63-1789	1200 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	103-74	Germanium Diode	.50
63-1796	1800 Ohm Resistor - 1/2W. 10%		103-90	Germanium Diode - Matched	1.00
63-1799	2200 Ohm Resistor - 1/2W. 10% (6 Req.)	.17	103-96	Diode	1.90
63-1803	2700 Ohm Resistor - 1/2W. 10% (2 Req.)		103-145	Diode (2 Req.)	.50
63-1806	3300 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	105-107	Integnet (2 Req.)	1.00
63-1810	3900 Ohm Resistor - 1/2W. 10% (4 Req.)	.17	114-342	6-20 x 3/16 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (Used On 83-7803)	.03
63-1813	4700 Ohm Resistor - 1/2W. 10% (3 Req.)	.17			
63-1817	5600 Ohm Resistor - 1/2W. 10%	.17	114-591	4-24 x 3/8 x 3/16 Slotted Hex Hd. Self-Tap. Screw - Cadmium (2 Used On Ea. 800-312)	.03
63-1820	5800 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	114-689	8-18 x 1/2 Hex Hd. Special Washer - Spinlock - Self-Tap. Screw-Stat. Bronze (2 Used On S-82104)	.03
63-1824	8200 Ohm Resistor - 1/2W. 10% (3 Req.)	.17			
63-1825	9100 Ohm Resistor - 1/2W. 5%	.34	114-801	8-18 x 5/16 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (1 Used On S-85564 & S-85569, 2 Used On 12-5420, 57-7850, 57-8147, S-85565 & 85-1170, 3 Used On 33-327 & 1 Used On S-85563) (16 Req.)	.03
63-1826	10K Ohm Resistor - 1/2W. 5%				
63-1827	10K Ohm Resistor - 1/2W. 10% (6 Req.)	.17	114-802	8-18 x 5/16 x 1/4 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze (1 Mts. 17-130 & 17-156) (2 Req.)	.03
63-1831	12K Ohm Resistor - 1/2W. 10% (3 Req.)	.17			
63-1835	15K Ohm Resistor - 1/2W. 20%	.34	121-430	Transistor - Driver (2 Req.)	1.10
63-1841	22K Ohm Resistor - 1/2W. 10%		121-433	Transistor - Pre-Amp. (2 Req.)	1.30
63-1845	27K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	121-546	Transistor - 2nd. & 3rd. I.F. (2 Req.)	.80
63-1848	33K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	121-612	Transistor - R.F. (FM)	.90
63-1853	43K Ohm Resistor - 1/2W. 5% (2 Req.)	.34	121-613	Transistor - Autodyne Converter (FM)	.80
63-1855	47K Ohm Resistor - 1/2W. 10%	.17	121-614	Transistor - 1st. I.F. Amplifier	.80
63-1869	100K Ohm Resistor - 1/2W. 10%	.17	121-639	Transistor - Composite Amplifier (3 Req.)	.70
63-1876	150K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	121-706	Transistor - Audio Driver (2 Req.)	.85
63-1880	180K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	121-714	Transistor - AM - FM - I.F.	.80
63-1883	220K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	121-737	Transistor - Stereo Indicator Switch	.95
63-1898	470K Ohm Resistor - 1/2W. 20% (3 Req.)	.17	121-762	Transistor - Detector	1.30
63-1904	680K Ohm Resistor - 1/2W. 10%	.17	126-1336	Coil Shield	.20
63-1918	1.5 Megohm Resistor - 1/2W. 10% (2 Req.)	.17	149-311	Ferrite Core	.05
63-4122	33 Ohm Resistor - 1/4W. 10%	.17	188-140	Retaining Ring	.03
63-4185	1000 Ohm Resistor - 1/4W. 10%	.17	188-155	Clamping Ring (Part Of S-85569)	.05
63-4196	1800 Ohm Resistor - 1/4W. 10%	.17	212-71	Silicon Rectifier (2 Req.)	1.25
63-4213	4700 Ohm Resistor - 1/4W. 10%	.17	800-312	Output Transistor - Matched Pair (2 Req.)	
63-4501	1 Ohm Resistor - 1/2W. 10% (2 Req.)	.15	-OR-		
63-5659	560 Ohm Resistor - 2W. 10%	.34	800-289	Output Transistor - Matched Pair (2 Req.)	5.00
63-6495	Mute Control	1.00	S-79435	Trap Coil Assem. 67 KHz	1.00
63-7681	Dual Treble Control	2.60	S-79667	Antenna & Tape Input Bracket Assem.	2.10
63-7682	Dual Bass Control	2.50	S-82104	Wave Magnet Antenna Assem.	2.20
63-7683	Dual Loudness Control	2.95	S-82528	Antenna Cable & Terminal Assem.	.20
63-7684	Balance Control & Switch	3.30	S-85104	I.F. Grounding Strap, Braid & Clip Assem.	
64-6	1/8 Dia. x 3/16 Lg. Tubular Rivet (2 Part Of S-79667)		S-85562	Drive Cord & Eyelet Assem.	
64-288	Shoulder Rivet (Part Of S-85563, S-85564 & 2 Part Of S-85565) (4 Req.)	.03	S-85563	Pulley Mtg. Bracket Assem.	
76-1987	Tuning Shaft		S-85564	Pulley Mtg. Bracket Assem.	
79-174-12	No. 18 Sleeving - Yellow - 1 1/2"	.03	S-85565	Pointer Guide Bracket Assem.	
80-2143	Tension Spring	.05	S-85569	Drive Pulley Assem.	
82-153	2nd. I.F. Grounding Strap		S-86475	Pulley Mtg. Bracket Assem.	
82-154	3rd. I.F. Grounding Strap	.40	*S-86608	Socket & Terminal Assem.	
82-165	Grounding Strap (Part Of S-85104)				
82-182	Oscillator Coil Grounding Strip				
83-1961	Antenna Terminal Strip (Part Of S-79667)	.35			
83-3404	3 Lug Terminal Strip (Used On 52-1530)	.05			
83-6173	Plastic Tie Strip (2 Req.)				
83-7233	Antenna Mtg. Strip.	.20			
83-7417	Antenna Protective Strip	.20			
83-7803	3 Lug Terminal Strip				
85-1170	Bandswitch				
86-390	Connector Terminal (Used on 43-571)		*12-5214	Rear Chassis Support Bracket	.20
86-449	Connector Terminal (Used on 52-1062)		*12-5216	Light Shield Strip	1.15
86-357	Connector Terminal (Used on 52-1062)		*19-616	Retaining Clip (1 Used On Ea. 54-506) (6 Req.)	.05
86-450 or	Connector Terminal (Used on 52-1062)		*26-1811	Dial Scale	8.10
86-344	Connector Terminal (Used on 52-1062)		*43-1109	6 Contact Housing (Used On 86-538) (4 Req.)	.45
93-1833	Transistor Insulating Washer (2 Req.)	.03	*46-7249	Control Knob - Loudness, - Treble - Balance & Bass (4 Req.)	.60
93-1906	No. 4 Washer (1 Used on Ea. 114-591) (4 Req.)		46-7334	Tuning & Function Knob (2 Req.)	1.75
94-1532	Nylon Shaft Bushing	.20	*46-7355	Stereo - Monaural & On-Off Knob (2 Req.)	.75
94-1545	Nylon Insulating Bushing (Use Only When 800-312 Is Used) (4 Req.)		*54-506	Tinnerman Speed Nut (4 Used On Ea. 83-7206) & 1 Used On Ea. 126-1410) (26 Req.)	.03
95-2541	Transformer - AM 1st. I.F. 455 KHz	1.75			
95-2542	Transformer - AM 2nd. I.F. 455 KHz	1.75			
95-2543	Transformer - 3rd. I.F. 455 KHz	1.95			

PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
54-541	Thread - Forming Palnut (3 Used On 12-5216 & 2 Used On Ea. 57-7421 & 57-7422) (11 Req.)	.03	22-3675	10 PF Disc Capacitor - 500V.	.25
54-812	Tinnerman Speed Nut (3 Used On 126-1429)	.03	22-4147	.1 MF Capacitor - 400V. (3 Req.)	.35
*54-834	Thread - Forming Palnut (1 Joins 43-1103 & Escutcheon)	.03	22-4564	10 MF Electrolytic Capacitor - 25V.	.90
*57-7257	Die-Cast Escutcheon	10.05	22-4568	100 MF Electrolytic Capacitor - 15V.	.95
*57-7421	Slide Switch Mounting Plate	1.65	22-4808	3 Section Variable Capacitor	4.30
*57-7422	Slide Switch Mounting Plate	1.80	22-5018	.47 MF Capacitor - 50V.	.60
*57-7499	Retainer Plate (4 Req.)	.45	22-5459	.0015 MF Disc Capacitor - 500V.	.10
*63-8237	Loudness Control	6.75	22-5639	.22 MF Capacitor - 100V.	.45
*63-8238	Treble Control	5.20	22-5761	470 PF Disc Capacitor (2 Req.)	.15
*63-8239	Bass Control	5.15	22-5780	270 PF Capacitor - 500V.	.15
*63-8240	Balance Control	2.85	-OR-		
*83-7206	Slider Guide (4 Used On Ea. 126-1416) (8 Req.)	.30	22-3424	270 PF Capacitor	.35
*83-7208	Trim Strip (Bottom)	13.70	22-5781	1000 PF Polystyrene Capacitor (2 Req.)	.15
*83-7209	Trim Strip (Top)	10.80	-OR-		
*83-7210	Indicator Strip (Volume)	.05	22-3613	1000 PF Mica Capacitor (2 Req.)	.50
*83-7211	Indicator Strip (Treble)	.05	22-5782	2200 PF Polystyrene Capacitor (2 Req.)	.15
*83-7212	Indicator Strip (Balance)	.05	-OR-		
*83-7213	Indicator Strip (Bass)	.05	22-3635	2200 PF Mica Capacitor (2 Req.)	1.05
*83-7575	Dial Crystal Insulating Strip (2 Req.)	.15	*22-6046	5 PF Disc Capacitor - 500V.	
*83-7576	Dial Crystal Insulating Strip (2 Req.)	.15	43-571	Nine Contact Housing (Used On 86-390)	.30
*86-538	Connector Terminal (21 Req.)	.05	43-877	Three Contact Housing (Used On 86-483)	.25
*93-1595	Felt Washer	.03	*43-1103	Function Plate Housing	.95
100-249	Pilot Light Bulb (2 Req.)	.18	52-1496	Two Conductor Shielded Cable (Used On 86-388)	1.00
112-1376	4-24 x 3/8 Phillips Pan Hd. Self-Tap. Screw- Stat. Bronze (4 Used On Ea. 63-8237, 63-8238, 63-8239 & 63-8240) (16 Req.)	.03	*52-1622	Two Conductor Cable (Approx. 7½")	.05
114-806	8-18 x 1/4 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (4 Joins Audio Chassis & RF Chassis & 2 Used On 12-5214) (6 Req.)	.03	*52-1624	Two Conductor Shielded Cable	.60
114-900	8-18 x 7/16 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (4 Joins Escutcheon & RF Chassis)	.03	*52-1625	Two Conductor Shielded Cable (Used On 86-398)	.70
*126-1410	Light Shield (2 Req.)	.50	*52-1626	Two Conductor Shielded Cable (Used On 58-315)	1.20
*126-1416	Slider Guide Shield (8 Req.)	.15	*52-1629	Single Conductor Shielded Cable (I.F.)	.35
126-1429	Bandswitch Shield	.25	54-139	3/8-32 x 9/16 Palnut - Cadmium (Used On 85-1070)	.03
188-441	Knob Clamping Ring (Part Of 46-7334)	.03	54-812	Tinnerman Speed Nut (13 Used On Chassis)	.03
*192-467	Dial Crystal	2.65	*54-832	Tinnerman Speed Nut (2 Used On 12-5192)	.03
CHASSIS 25AT20			*57-7256	Back Ground Plate	1.40
R.F. CHASSIS COMPONENTS			57-7452	Function Plate & Socket	1.80
12-4211	Variable Capacitor Mounting Bracket	.20	58-315	Connector Plug (2 Part Of S-83447 & 1 Part Of S-83450)	.20
*12-5192	Meter Mounting Bracket	.20	*59-1036	Dial Pointer	.70
*12-5193	Chassis Mounting Bracket (2 Req.)	1.15	61-222	Pulley (2 Part Of S-83474 & 2 Part Of S-83475)	.20
*12-5232	Switch Bracket	.45	63-1701	10 Ohm Resistor - ½W. 10%	.17
19-448	Grounding Clip (2 Part Of S-83449)	.10	63-1740	82 Ohm Resistor - ½W. 10%	.17
19-464	Coil Mounting Clip	.05	63-1743	100 Ohm Resistor - ½W. 10%	.17
19-480	Wire Retaining Clip	.03	63-1761	270 Ohm Resistor - ½W. 10%	.17
19-485	Cable Clamp	.10	63-1764	330 Ohm Resistor - ½W. 10% (5 Req.)	.17
19-492	Wire Retaining Clip (4 Req.)	.05	63-1768	390 Ohm Resistor - ½W. 10%	.17
19-536	Wire Retaining Clip	.05	63-1771	470 Ohm Resistor - ½W. 10% (5 Req.)	.17
*19-633	Tinnerman Speed Clip (Used On 83-7663)		63-1775	560 Ohm Resistor - ½W. 10%	.17
20-1422	Peaking Coil	.75	63-1778	680 Ohm Resistor - ½W. 10% (6 Req.)	.17
20-2008	Peaking Coil - 10.7 MHz Choke	.50	63-1782	820 Ohm Resistor - ½W. 10% (2 Req.)	.17
20-2033	Peaking Coil	.40	63-1785	1000 Ohm Resistor - ½W. 10% (5 Req.)	.17
22-5	100 PF Disc Capacitor - 500V.	.25	63-1789	1200 Ohm Resistor - ½W. 10%	.17
22-14	.0047 MF Disc Capacitor - 500V.	.25	63-1792	1500 Ohm Resistor - ½W. 10% (2 Req.)	.17
22-18	.0022 MF Disc Capacitor - 500V. (3 Req.)	.25	63-1796	1800 Ohm Resistor - ½W. 10%	
22-2333	2.2 PF Gimmick Capacitor - 500V.	.20	63-1799	2200 Ohm Resistor - ½W. 10%	.17
22-2374	6 PF Disc Capacitor - 500V.	.25	63-1803	2700 Ohm Resistor - ½W. 10%	
22-2424	1.5 PF Gimmick Capacitor	.20	63-1806	3300 Ohm Resistor - ½W. 10% (2 Req.)	.17
22-2481	8 PF Disc Capacitor - 500V.	.25	63-1810	3900 Ohm Resistor - ½W. 10%	.17
22-2715	1.2 PF Gimmick Capacitor - 500V.	.20	63-1813	4700 Ohm Resistor - ½W. 10% (3 Req.)	.17
22-2720	1 PF Gimmick Capacitor - 500V.	.20	63-1817	5600 Ohm Resistor - ½W. 10% (3 Req.)	.17
22-2729	.001 MF Disc Capacitor - 25V. (2 Req.)	.25	63-1824	8200 Ohm Resistor - ½W. 10%	.17
22-2884	5 MF Electrolytic Capacitor - 12V. (3 Req.)	1.50	63-1825	9100 Ohm Resistor - ½W. 5%	.34
22-2903	22 PF Disc Capacitor	.25	63-1826	10K Ohm Resistor - ½W. 5%	
22-3034	.05 MF Disc Capacitor - 25V. (15 Req.)	.45	63-1831	12K Ohm Resistor - ½W. 10% (2 Req.)	
22-3080	.005 MF Disc Capacitor - 25V.	.25	63-1834	15K Ohm Resistor - ½W. 10% (3 Req.)	.17
22-3177	390 PF Disc Capacitor - 500V. (2 Req.)	.25	63-1838	18K Ohm Resistor - ½W. 10%	.17
22-3254	.1 MF Disc Capacitor - 25V. (4 Req.)	.75	63-1848	33K Ohm Resistor - ½W. 10% (2 Req.)	.17
22-3362	560 PF Disc Capacitor (2 Req.)	.25	63-1855	47K Ohm Resistor - ½W. 10%	
22-3393	.01 MF Disc Capacitor - 25V.	.25	63-1869	100K Ohm Resistor - ½W. 10% (2 Req.)	.17
22-3415	.0068 MF Disc Capacitor - 25V.	.25	63-1883	220K Ohm Resistor - ½W. 10%	.17
22-3448	10 MF Electrolytic Capacitor - 15V.	1.00	63-1890	330K Ohm Resistor - ½W. 10%	
			63-1894	390K Ohm Resistor - ½W. 10% (2 Req.)	.17
			63-1897	470K Ohm Resistor - ½W. 10%	.17
			63-1911	1 Megohm Resistor - ½W. 10%	.17
			63-1915	1.2 Meg Ohm Resistor - ½W. 10%	.17
			63-1925	2.2 Megohm Resistor - ½W. 10%	
			63-4548	22 Megohm Resistor - ½W. 20% (2 Req.)	.17
			63-6495	Potentiometer	1.00
			*63-8258	Potentiometer	.55

*Denotes parts not previously used in Zenith receivers.

PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
61-222	Pulley (2 Part Of S-83474 & 2 Part Of S-83475)	.20	114-344	6-20 x 1/4 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (3 Used On 57-7256, 2 Join 126-1420 & 57-7256, 1 Used On 85-1070 & 2 Mt. 43-1103)	.03
63-1701	10 Ohm-Resistor - 1/2W. 10%	.17			
63-1740	82 Ohm Resistor - 1/2W. 10%	.17	114-624	6-20 x 5/16 Hex Hd. Self-Tap. Screw-Stat. Bronze - Flat Washer Att. (2 Used On S-83475)	.10
63-1743	100 Ohm Resistor - 1/2W. 10%	.17	114-638	6-20 x 3/8 Hex Hd. Self-Tap. Screw-Stat. Bronze - Flat Washer Att. (2 Mt. 43-1103)	.03
63-1761	270 Ohm Resistor - 1/2W. 10%	.17	114-801	8-18 x 5/16 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (2 Used On 12-4211)	.03
63-1764	330 Ohm Resistor - 1/2W. 10% (5 Req.)	.17	114-804	8-18 x 1/2 Hex Hd. Self-Tap. Screw-Stat. Bronze - Flat Washer Att. (4 Used On FM Tuner)	.03
63-1768	390 Ohm Resistor - 1/2W. 10%	.17	114-806	8-18 x 1/4 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (2 Used On 83-7309, & 3 Used On Ea. S-83474 & 12-5193 & 2 Mt. 12-5232) (10 Req.)	.03
63-1771	470 Ohm Resistor - 1/2W. 10% (4 Req.)	.17	121-496	Transistor - Comp. Amp. - 19KHz Amp. - 38KHz Amp. - Stereo Ind. SW. (4 Req.)	.85
63-1775	560 Ohm Resistor - 1/2W. 10%	.17	121-546	Transistor - FM & AM 2nd. I.F., FM 3rd. I.F. & 4th. FM I.F. (3 Req.)	.80
63-1778	680 Ohm Resistor - 1/2W. 10% (7 Req.)	.17	121-638	Transistor - AM Mixer	.75
63-1782	820 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	*121-734	Transistor - Biplex Detector	1.00
63-1785	1000 Ohm Resistor - 1/2W. 10% (5 Req.)	.17	*121-753	Transistor - AM Oscillator	.72
63-1792	1500 Ohm Resistor - 1/2W. 10% (3 Req.)	.17	*121-775	Transistor - 1st. I.F. FM & AM	.80
63-1796	1800 Ohm Resistor - 1/2W. 10%	.17	-OR-		
63-1799	2200 Ohm Resistor - 1/2W. 10%	.17	121-614	Transistor - 1st. I.F. FM & AM	.80
63-1803	2700 Ohm Resistor - 1/2W. 10%	.17	*122-41	Tuning Meter	7.30
63-1806	3300 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	125-117	Rubber Grommet (4 Used On FM Tuner)	.03
63-1810	3900 Ohm Resistor - 1/2W. 10%	.17	126-1336	Coil Shield	.20
63-1813	4700 Ohm Resistor - 1/2W. 10% (3 Req.)	.17	*126-1419	Stereo Light Shield	.15
63-1817	5600 Ohm Resistor - 1/2W. 10% (3 Req.)	.17	126-1420	Dial Scale Light Shield	1.80
63-1824	8200 Ohm Resistor - 1/2W. 10%	.17	149-370	Iron Core	.15
63-1825	9100 Ohm Resistor - 1/2W. 5%	.34	171-66	Stereo Light Reflector	.03
63-1826	10K Ohm Resistor - 1/2W. 5%	.17	199-246	Insulating Sleeve (2 Part Of S-83449)	.05
63-1831	12K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	885-12	S.P.S.T. Switch No. 1 - 2 Contact (Part Of 85-1070)	1.50
63-1834	15K Ohm Resistor - 1/2W. 10% (3 Req.)	.17	885-13	S.P.D.T. Switch No. 2 - 3 Contact (Part Of 83-1070)	2.25
63-1838	18K Ohm Resistor - 1/2W. 10%	.17	S-74470	Antenna Coil Assem.	1.45
63-1848	33K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	S-79435	Multiplex Trap Coil Assem.	1.00
63-1855	47K Ohm Resistor - 1/2W. 10%	.17	S-79436	Multiplex Doubler Coil Assem.	2.50
63-1869	100K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	S-79438	Multiplex Input Coil Assem.	2.30
63-1883	220K Ohm Resistor - 1/2W. 10%	.17	S-82931	F.M. Tuner Assem.	34.00
63-1890	330K Ohm Resistor - 1/2W. 10%	.17	*S-83447	Phono Cable & Connector Plug Assem.	1.75
63-1894	390K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	*S-83449	Shielded Cable & Terminal Assem. (Tape In)	1.70
63-1897	470K Ohm Resistor - 1/2W. 10%	.17	*S-83450	FM Cable & Plug Assem.	.45
63-1911	1 Megohm Resistor - 1/2W. 10%	.17	*S-83454	Stereo Indicator, Wire & Terminal Assem.	1.55
63-1915	1.2 Meg Ohm Resistor - 1/2W. 10%	.17	*S-83474	Chassis Mtg. Bracket & Pulley Assem.	1.50
63-1925	2.2 Megohm Resistor - 1/2W. 10%	.17	*S-83475	Pointer Guide Rail & Pulley Assem.	1.70
63-4548	22 Megohm Resistor - 1/2W. 20% (2 Req.)	.17	*S-83476	Drive Cord & Eyelet Assem.	.70
63-6495	Potentiometer - 100K Ohm	1.00	*S-83477	Drive Cord & Eyelet Assem.	.40
*63-8258	Potentiometer - 150K Ohm	.55	*S-83478	Drive Cord & Eyelet Assem.	.35
64-862	Steel Eyelet (4 Used On FM Tuner)	.03	*S-84181	Multiplex Detector Coil Assem.	1.70
69-217	4-40 x 3/16 Rd. Hd. Machine Screw - N.P. (2 Used On Ea. 85-1071 & 85-1072) (4 Req.)	.05			
*78-1891	Socket & Wire (3 Req.)	.95			
*78-1892	Socket & Wire (2 Req.)	.75			
*78-1901	Socket & Wire (3 Req.)	.60			
80-209	Tension Spring	.10			
80-1140	Tension Spring	.05			
*83-7308	Terminal Strip (Used On 126-1420)	.30			
*83-7309	Antenna Terminal Strip	.30			
*85-1070	Bandswitch	12.00			
*85-1071	Switch (On-Off)	4.55			
*85-1072	Switch (Stereo - Monaural)	3.95			
86-388	Connector Terminal (2 Used On 52-1496)	.05			
86-390	Connector Terminal (8 Used On 43-571)	.03			
86-483	Connector Terminal - Male (1 Used On Red Wire & 2 Used On Black Wire) (3 Req.)	.03			
86-500	Terminal (Test Point) (19 Req.)	.03			
86-565	Connector Terminal (3 Used On 52-1625, 2 Used On 100-482 & 1 Used On Red Wire)				
*95-2716	Transformer - Detector (AM)	1.35	17-141	Cable Clamp	.20
*95-2717	Transformer - Oscillator (AM)	1.25	19-448	Ground Clip	.10
*95-2718	Transformer - 1st. I.F. (AM)	2.30	19-546	Capacitor Retaining Clip (3 Req.)	.10
*95-2719	Transformer - 2nd. I.F. (AM)	2.80	19-561	Capacitor Retaining Clip (2 Req.)	.10
*95-2720	Transformer - 3rd. I.F. (AM)	3.45	22-13	.0003 MF Disc Capacitor - 500V. (2 Req.)	.25
*95-2726	Transformer - 3rd. & 4th. I.F. (FM) (2 Req.)	2.35	22-2884	5 MF Electrolytic Capacitor - 15V. (2 Req.)	1.50
*95-2727	Transformer - Ratio Detector	5.15	22-3034	.05 MF Disc Capacitor - 25V. (4 Req.)	.45
*95-2728	Transformer - 2nd. I.F. (FM)	2.35	22-3255	330 PF Disc Capacitor - 500V. (2 Req.)	.25
100-249	Pilot Light Bulb (3 Req.)	.18	22-3892	.01 MF Capacitor - 100V. (2 Req.)	.30
100-422	Pilot Light Bulb (6 Req.)	.30	22-4576	25 MF Electrolytic Capacitor - 15V. (2 Req.)	1.10
*100-482	Stereo Indicator & Wire (Part Of S-83454)		22-4905	.01 MF Disc Capacitor - 100V. (2 Req.)	.10
103-23	Diode (8 Req.)	.75	22-5012	.15 MF Mylar Capacitor - 50V. (2 Req.)	.75
*105-107	38 KHz Filter (2 Req.)	1.00	22-5018	.01 MF Disc Capacitor - 50V.	.60
113-8	6-32 x 1/4 x 1/4 Hex Hd. Mach. Screw - N.P. - Internal Shakeproof Lockwasher (2 Join 12-4211 & 22-4808)	.03	22-5159	.047 MF Capacitor - 50V. (2 Req.)	.35
			22-5167	1000 MF Electrolytic Capacitor - 30V.	3.20
			22-5188	.1 MF Capacitor - 50V. (2 Req.)	.35
			22-5192	300 MF Electrolytic Capacitor - 15V.	2.45

CHASSIS 25BT22

AUDIO CHASSIS COMPONENTS

PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
22-5316	500 MF Electrolytic Capacitor - 50V.	2.55	*12-5170	Control Mtg. Bracket	1.60
22-5362	1000 MF Electrolytic Capacitor - 50V. (2 Req.)	4.05	*12-5358	Heat Sink Bracket	
22-5474	2000 MF Electrolytic Capacitor - 30V.	3.90	17-143	Nylon Clamp (2 Req.)	.20
22-5542	2200 PF Disc Capacitor - 1KV. (2 Req.)	.20	19-448	Ground Clip (1 Used On Ea. 52-1588 & 52-1589)	.10
*22-5639	.22 MF Mylar Capacitor - 100V. (2 Req.)	.45	19-614	Clip (Used On 82-165)	
*22-5867	.12 MF Capacitor - 100V. (2 Req.)	.40	*20-1256	Trap Coil (10.7 MHz)	.50
*22-5900	.56 MF Capacitor - 100V. (2 Req.)	.75	*20-1648	FM R.F. Coil	.35
*22-5911	.27 MF Mylar Capacitor - 100V. (2 Req.)	.60	*20-1649	FM Oscillator Coil	.50
*22-6239	100 PF Disc Capacitor - 25V. (4 Req.)		20-2033	Peaking Coil	.40
43-841	Three Contact Housing (Used On 86-390)	.10	*20-3291	FM Antenna Coil	
43-876	Three Contact Housing (Used On 86-484)	.25	22-14	.0047 MF Disc Capacitor - 500V. (2 Req.)	.25
54-812	Tinnerman Speed Nut (4 Used On 64-1033 & 5 Used On 86-500) (9 Req.)	.03	22-2428	1.8 PF Gimmick Capacitor - 500V.	.25
63-1740	82 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	22-2481	8 PF Disc Capacitor - 500V. (3 Req.)	.25
63-1757	220 Ohm Resistor - 1/2W. 10%	.17	22-2513	7 PF Disc Capacitor - 500V.	.25
63-1771	470 Ohm Resistor (2 Req.)	.17	22-2703	220 PF Disc Capacitor - 500V. (2 Req.)	.25
63-1775	560 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	22-2729	.001 MF Disc Capacitor - 25V. (3 Req.)	.25
63-1782	820 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	22-2884	5 MF Electrolytic Capacitor - 12V. (4 Req.)	1.50
63-1820	6800 Ohm Resistor - 1/2W. 10% (2 Req.)	.17	22-3033	.02 MF Disc Capacitor - 25V.	.35
63-1827	10K Ohm Resistor - 1/2W. 10% (2 Req.)		22-3034	.05 MF Disc Capacitor - 25V. (11 Req.)	.45
63-1838	18K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	22-3080	.005 MF Disc Capacitor - 25V.	.25
63-1841	22K Ohm Resistor - 1/2W. 10% (2 Req.)		22-3177	390 PF Disc Capacitor - 500V. (2 Req.)	.25
63-1845	27K Ohm Resistor - 1/2W. 10%	.17	22-3255	330 PF Disc Capacitor - 500V. (2 Req.)	.25
63-1848	33K Ohm Resistor - 1/2W. 10% (4 Req.)	.17	22-3310	2.7 PF Gimmick Capacitor - 500V. (2 Req.)	.25
63-1852	39K Ohm Resistor - 1/2W. 10% (2 Req.)		22-3362	560 PF Disc Capacitor - 500V. (2 Req.)	.25
63-1869	100K Ohm Resistor - 1/2W. 10% (2 Req.)	.17	22-3393	.01 MF Disc Capacitor - 25V. (6 Req.)	.25
63-1876	150K Ohm Resistor - 1/2W. 10% (4 Req.)	.17	22-3415	.0068 MF Disc Capacitor - 25V. (2 Req.)	.25
63-1890	330K Ohm Resistor - 1/2W. 10% (2 Req.)		22-3541	3.3 PF Gimmick Capacitor - 500V.	.25
63-1939	4.7 Megohm Resistor - 1/2W. 10% (4 Req.)		22-3558	16 PF Disc Capacitor - 500V.	.25
63-4519	2.7 Ohm Resistor - 1/2W. 10% (4 Req.)	.17	22-3652	.1 MF Disc Capacitor - 10V.	.30
63-5305	.51 Ohm Resistor - 5W. 5% (4 Req.)	.75	22-3675	10 PF Disc Capacitor - 500V.	.25
63-5659	560 Ohm Resistor - 2W. 10% (2 Req.)	.34	22-3687	1 MF Electrolytic Capacitor - 50V. (2 Req.)	1.50
63-6052	390 Ohm Resistor - 1W. 10% (2 Req.)	.25	*22-3770	5.5 PF Disc Capacitor - 500V.	.30
63-7576	50 Ohm Resistor - 4W. 10%		22-3791	42 PF Disc Capacitor - 500V.	.25
*63-8618	150 Ohm Resistor - 4W. 10%		22-3792	17 PF Disc Capacitor - 500V.	.25
*63-8619	100 Ohm Resistor - 3W. 10% (2 Req.)		22-3896	5 MF Electrolytic Capacitor - 25V.	1.00
64-1033	Grip Eyelet (4 Req.)	.03	22-4573	1000 MF Electrolytic Capacitor - 15V.	2.10
78-1812	Two Contact Transistor Socket (2 Part Of Ea. S-73214)	.30	22-4855	Trimmer Capacitor	.45
79-174-12	No. 18 Sleeveing - Yellow - 1 1/2"	.03	22-4909	1 MF Electrolytic Capacitor - 25V.	.90
83-5277	Transistor Insulating Strip (2 Part Of Ea. 800-329)	.03	22-5316	500 MF Electrolytic Capacitor - 50V. (2 Req.)	2.55
83-5288	13 Lug Terminal Strip	.35	22-5481	560 PF Disc Capacitor - 500V. (2 Req.)	.25
83-5794	18 Lug Terminal Strip	.80	22-5482	680 PF Disc Capacitor - 500V. (6 Req.)	.25
86-344	Connector Terminal (3 Part Of S-83439)	.03	22-5483	1500 PF Disc Capacitor - 500V.	.25
86-388	Connector Terminal (2 Part Of S-83440)	.05	22-5486	10 MF Electrolytic Capacitor - 6V.	.95
86-390	Connector Terminal (2 Req.)	.03	22-5487	47 MF Disc Capacitor - 3V. (2 Req.)	.45
86-484	Connector Terminal (3 Req.)	.03	22-5612	180 PF Disc Capacitor - 500V.	.15
86-500	Connector Pin (5 Req.)	.03	*22-5780	270 PF Polystyrene Capacitor - 500V.	.15
*95-2699	Driver Transformer (2 Req.)	5.30	-OR-		
103-96	Diode - Zener	1.90	22-3424	270 PF Mica Capacitor - 100V.	.35
114-26	8-18 x 1/4 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (1 Used On 17-141)	.03	*22-5781	1000 PF Polystyrene Capacitor - 500V. (2 Req.)	.15
114-271	6-20 x 1/2 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (4 Used On Ea. 800-329)	.03	-OR-		
114-344	6-20 x 1/4 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (4 Used On Ea. S-73214 & 2 Used On Ea. 95-2699) (12 Req.)	.03	22-3635	2200 PF Mica Capacitor (2 Req.)	1.05
121-433	Transistor - Pre-Amp. (2 Req.)	1.30	22-5862	.1 MF Mylar Capacitor - 100V. (2 Req.)	.35
-OR-			22-5866	.047 MF Mylar Capacitor - 100V. (6 Req.)	.30
*121-752	Transistor - Pre-Amp. (2 Req.)	1.52	*22-5878	5.5 PF Disc Capacitor - 50V.	.10
121-706	Transistor - Driver (2 Req.)	.85	*22-5879	3.3 PF Disc Capacitor - 50V.	.10
121-751	Transistor - Driver (2 Req.)	.72	22-5883	.033 MF Mylar Capacitor - 100V. (2 Req.)	.35
199-246	Insulating Sleeve (2 Part Of S-83440)	.05	22-5901	3300 PF Disc Capacitor - 50V. (2 Req.)	.15
199-319	Insulating Sleeve (2 Part Of S-83439)	.05	*22-5972	390 PF Polystyrene Capacitor - 125V.	
205-51	Dow Corning Heat Conductive Grease (Part Of 800-329)	.16	*22-5986	50 MF Electrolytic Capacitor - 25V. (2 Req.)	
*800-329	Output Transistor Assem. - Matched Pr. (2 Req.)		*22-5988	1 MF Electrolytic Capacitor - 15V. (2 Req.)	
S-73214	Heat Sink & Socket Assem. (2 Req.)	2.10	*22-6090	5 Section Variable Capacitor - FM Detector	
*S-83439	Speaker Cable, Terminal & Sleeve Assem.	.50		Trimmer - FM Detector Tuning - FM Oscillator	
*S-83440	Two Conductor Shielded Cable, Terminal & Sleeve Assem.	.85		Tuning - AM Antenna Trimmer - AM Antenna	
				Tuning - AM Oscillator Tuning - AM Oscillator	
				Trimmer - FM Antenna Trimmer - FM Antenna	
				Tuning	
			*22-6110	.033 Mylar Capacitor - 50V.	
			*22-6111	.001 MF Mylar Capacitor - 50V.	
			*26-1580	Dial Scale (27BT30Z)	
			*26-1581	Dial Scale (27BT30)	
			43-571	Nine Contact Housing (Used On 86-390)	.30
			52-1443	Four Conductor Cable - Approx. 6" (Used On 83-7233)	.15
CHASSIS 27BT30 AND 27BT30Z					
*12-5166	Dial Background Mtg. Bracket	.90			
*12-5169	Bandswitch & Tuning Bracket	2.20			

*Denotes parts not previously used in Zenith receivers.

PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
52-1501	Three Conductor Cable - Approx. 20" (Used On 86-344)	.60	*78-1868	Dial Light Socket & Wire	.60
*52-1588	Two Conductor Shielded Lead (Used On 86-388)	1.00	*78-1869	Dial Light Socket & Wire	.60
*52-1589	Two Conductor Shielded Lead (Used On 86-388)	.85	*78-1870	Dial Light Socket & Wire	
*52-1590	Two Conductor Shielded Lead (Used On 86-565)	.70	79-174-12	No. 18 Sleeving - Yellow - 1½"	.03
*52-1591	Two Conductor Shielded Lead (Used On 86-565)	.70	80-1964	Tension Spring	.25
52-1614	Two Conductor Shielded Lead (Used On 58-214)	1.00	80-2069	Tension Spring	.03
54-139	3/8-32 x 9/16 Palnut (5 Req.)	.03	*82-153	2nd. I.F. Grounding Strap	.35
54-334	Tinnerman Speed Nut (1 Used On Ea. 114-591) (4 Req.)	.03	*82-154	3rd. I.F. Grounding Strap	.40
54-828	1/2"-20 Palnut	.03	82-165	Grounding Strap (Part Of S-85104)	.20
*54-839	Tinnerman Speed Nut	.05	*82-182	Oscillator Coil Grounding Strap	
*54-851	Palnut (21 Req.)		*83-7196	Two Lug Terminal Strip	.45
*57-7637	Transistor Mtg. Plate		*83-7197	Two Lug Terminal Strip	.05
58-214	Single Prong Plug (2 Used On 52-1614)	.10	*83-7233	Antenna Mtg. Strip (Part Of S-82104)	.20
*59-1084	Dial Pointer (2 Req.)		*83-7417	Antenna Protective Strip	.20
63-1701	10 Ohm Resistor - ½W. 10%	.17	*83-7552	Transistor Insulating Washer (4 Part Of 121-770X Or 121-772X)	
63-1715	22 Ohm Resistor - ½W. 10% (2 Req.)	.17	*85-1166	Bandswitch	
63-1736	68 Ohm Resistor - ½W. 10% (2 Req.)	.17	86-344	Terminal, Connector (Used On 52-1501) (3 Req.)	.03
63-1757	220 Ohm Resistor - ½W. 10% (4 Req.)	.17	86-357	Connector Terminal (2 Req.)	.03
63-1761	270 Ohm Resistor - ½W. 10%	.17	86-388	Connector Terminal (2 Used On 52-1588 & 52-1589) (4 Req.)	.05
63-1764	330 Ohm Resistor - ½W. 10% (2 Req.)	.17	86-390	Connector Terminal (9 Used On 43-571)	.03
63-1766	360 Ohm Resistor - ½W. 5% (2 Req.)		86-500	Terminal (28 Req.)	.03
63-1768	390 Ohm Resistor - ½W. 10%	.17	86-565	Connector Terminal (3 Used On 52-1590 & 3 Used On 52-1595) (19 Req.)	
63-1771	470 Ohm Resistor - ½W. 10% (2 Req.)	.17	93-754	No. 4 Lockwasher - Internal - N.P. (Used On 126-1452)	.03
63-1772	470 Ohm Resistor - ½W. 20% (4 Req.)	.17	94-1532	Nylon Shaft Bushing	.20
63-1775	560 Ohm Resistor - ½W. 10% (2 Req.)	.17	*94-1545	Shoulder Bushing (4 Req.)	
63-1776	620 Ohm Resistor - ½W. 5% (2 Req.)		95-2541	Transformer - AM 1st. I.F. AM 455 KHz	1.75
63-1778	680 Ohm Resistor - ½W. 10% (4 Req.)	.17	95-2542	Transformer - AM 2nd. I.F. AM 455 KHz	1.75
63-1782	820 Ohm Resistor - ½W. 10% (2 Req.)	.17	95-2543	Transformer - 3rd. I.F. AM 455 KHz	1.95
63-1785	1000 Ohm Resistor - ½W. 10% (5 Req.)		95-2544	Transformer - AM - Oscillator	1.45
63-1795	1800 Ohm Resistor - ½W. 5% (2 Req.)	.34	95-2545	Transformer - FM Ratio Detector 10.7 MHz	2.65
63-1796	1800 Ohm Resistor - ½W. 10%		95-2546	Transformer - FM 1st. I.F. 10.7 MHz	1.95
63-1799	2200 Ohm Resistor - ½W. 10% (8 Req.)	.17	95-2547	Transformer - FM 2nd. I.F. 10.7 MHz	2.00
63-1803	2700 Ohm Resistor - ½W. 10% (2 Req.)		95-2548	Transformer - FM 3rd. I.F. 10.7 MHz	2.10
63-1806	3300 Ohm Resistor - ½W. 10% (2 Req.)	.17	*95-2856	Multiplex Doubler Coil - 19 KHz	
63-1810	3900 Ohm Resistor - ½W. 10% (2 Req.)	.17	*95-2857	Multiplex Detector Coil - 38 KHz	
63-1813	4700 Ohm Resistor - ½W. 10% (3 Req.)	.17	*95-2858	Multiplex Input Coil - 19 KHz	
63-1817	5600 Ohm Resistor - ½W. 10% (3 Req.)	.17	100-249	Pilot Light (3 Req.)	.18
63-1820	6800 Ohm Resistor - ½W. 10% (2 Req.)	.17	103-23	Germanium Diode (4 Req.)	.75
63-1824	8200 Ohm Resistor - ½W. 10%	.17	103-47	Diode AFC	3.75
63-1825	9100 Ohm Resistor - ½W. 5%	.34	103-74	Germanium Diode	.50
63-1826	10K Ohm Resistor - ½W. 5%		103-90	Germanium Diode - Matched	2.00
63-1827	10K Ohm Resistor - ½W. 10%		103-96	Diode	1.90
63-1831	12K Ohm Resistor - ½W. 10% (5 Req.)		*105-107	Integnet	1.00
63-1834	15K Ohm Resistor - ½W. 10% (3 Req.)	.17	114-77	6-20 x 5/16 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze (1 Mts. 83-7196 & 2 Mt. 12-5358 & 57-7637) (5 Req.)	.03
63-1841	22K Ohm Resistor - ½W. 10%		114-591	4-24 x 3/8 x 3/16 Slotted Hex Hd. Self-Tap. Screw - Cadmium (2 Used On 121-770X Or 121-772X & 1 Used On 126-1452) (5 Req.)	.03
63-1842	22K Ohm Resistor - ½W. 20%	.17	114-689	8-18 x 1/2 Hex Hd. Spec. Washer (Spinlock) Self-Tap. Screw-Stat. Bronze (Used On S-82104 & 83-7417)	.03
63-1845	27K Ohm Resistor - ½W. 10% (2 Req.)	.17	114-801	8-18 x 5/16 Hex Hd. Self-Tap. Screw-Stat. Bronze (6 Mt. S-82401, 2 Join S-82399 & S-82401, S-82400 & S-82401, 4 Used On 12-5170 & 2 Mt. 126-1452) (16 Req.)	.03
63-1848	33K Ohm Resistor - ½W. 10% (4 Req.)	.17	114-802	8-18 x 5/16 Hex Washer Hd. Self-Tap. Screw-Stat. Bronze (1 Used On Ea. 17-143) (2 Req.)	.03
63-1855	47K Ohm Resistor - ½W. 10%		121-430	Transistor - Audio - Amp. (2 Req.)	1.10
63-1857	51K Ohm Resistor - ½W. 5% (2 Req.)		121-433	Transistor - Pre-Amp. (2 Req.)	1.30
63-1869	100K Ohm Resistor - ½W. 10%	.17	121-546	Transistor - AM-FM 2nd. I.F., FM 3rd. I.F. (2 Req.)	.80
63-1883	220K Ohm Resistor - ½W. 10% (2 Req.)	.17	121-612	Transistor - R.F. (FM)	.90
63-1887	270K Ohm Resistor - ½W. 10% (2 Req.)	.17	121-613	Transistor - Autodyne Converter - FM	.80
63-1890	330K Ohm Resistor - ½W. 10% (2 Req.)		121-614	Transistor - AM-FM 1st. I.F.	.80
63-1898	470K Ohm Resistor - ½W. 20% (3 Req.)	.17	121-639	Transistor - Comp. Amp., 19 KHz Amp. & 38 KHz Amp. (3 Req.)	.70
63-1904	680K Ohm Resistor - ½W. 10%	.17	121-714	Transistor - AM - FM I.F.	.80
63-1918	1.5 Megohm Resistor - ½W. 10% (2 Req.)		*121-737	Transistor	.95
63-1933	3.3 Megohm Resistor - ½W. 20%		*121-762	Transistor - Bipler Detector	1.30
63-1939	4.7 Megohm Resistor - ½W. 10%		*121-767	Transistor - Bias Control (2 Req.)	.68
63-4122	33 Ohm Resistor - ¼W. 10%	.17	*121-768	Transistor - Pre-Driver (2 Req.)	
63-4185	1000 Ohm Resistor - ¼W. 10%	.17			
63-4196	1800 Ohm Resistor - ¼W. 10%	.17			
63-4213	4700 Ohm Resistor - ¼W. 10%	.17			
63-5663	680 Ohm Resistor - 2W. 10%	.30			
63-6424	1 Ohm Resistor - 5W. 10% (2 Req.)	.75			
63-6495	Mute Control	1.00			
*63-8323	Balance Control & Switch				
63-8324	Dual Loudness Control	5.45			
63-8325	Dual Treble Control	3.75			
63-8328	Potentiometer (2 Req.)	1.25			
*63-8569	Dual Bass Control				
64-288	Shoulder Rivet (1 Part Of Ea. S-82399, & S-82401, 2 Part Of S-82400) (4 Req.)	.03			
*76-2015	Tuning Shaft				

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PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
*121-770X	Transistor - Output - Matched Pr. (2 Req.)		22-4509	20 MF Electrolytic Capacitor-25V.	.70
-OR-			22-4564	10 MF Electrolytic Capacitor-25V.	.90
*121-772X	Transistor - Output - Matched Pr. (2 Req.)		22-4617	.01 MF Disc Capacitor	.10
*121-773	Transistor - Driver (2 Req.)		22-4817	Variable Capacitor	5.25
*121-774	Transistor - Driver (2 Req.)		22-4905	.01 MF Disc Capacitor-500V. (11 Req.)	.10
126-1336	Coil Shield	.20	22-5012	.15 MF Capacitor-50V. (4 Req.)	.75
126-1452	Dial Scale Light Shield	2.40	22-5018	.47 Mylar Capacitor-50V.	.60
149-311	Ferrite Core (Sleeve)	.05	22-5167	1000 MF Electrolytic Capacitor-30V.	3.20
188-140	Retaining Ring	.03	22-5168	300 MF Electrolytic Capacitor-25V.	3.05
188-155	Clamping Ring (Part Of S-82433)	.05	22-5188	.1 MF Capacitor-50V. (2 Req.)	.35
199-198	Shielded Paper Sleeve	.03	22-5237	.01 MF Capacitor-100V. (2 Req.)	.25
199-265	Shielded Paper Sleeve	.05	22-5612	180 PF Disc Capacitor-500V. (2 Req.)	.15
S-79435	Trap Coil Assem. - 67 KHz	1.00	22-5626	.0082 MF Disc Capacitor-500V. (2 Req.)	.25
*S-82104	Wave Magnet Antenna Assem.	2.20	22-5883	.033 MF Mylar Capacitor-100V. (2 Req.)	.35
S-82399	Bracket & Pulley Assem. (Left)	.30	*22-5904	.15 MF Capacitor-100V. (2 Req.)	.35
*S-82400	Bracket & Pulley Assem. (Right)	.30	*22-5907	.1 MF Capacitor-50V. (12 Req.)	.35
S-82401	Bandswitch Bracket Assem.	2.20	*26-1859	Dial Scale	3.55
*S-82402	Dial Light Shield Assem.	2.60	*26-1860	Log Scale	.95
*S-82433	Drive Pulley Assem.	.50	43-571	9 Contact Housing-Male	.30
*S-82434	Drive Cord & Eyelet Assem.	.35	43-875	9 Contact Housing-Male	.30
*S-82435	Drive Cord & Eyelet Assem. (Pointer)	.25	43-878	12 Contact Housing-Female (2 Req.)	.35
S-84923	Shielded Lead & Plug Assem.		43-879	12 Contact Housing-Treble & Bass - Male (2 Req.)	.30
S-85104	I.F. Grounding Strap, Braid & Clip Assem.		43-880	6 Contact Housing (Phono Socket)	.25
CHASSIS 29AT24			*43-1110	20 Contact Housing (2 Req.)	.55
12-4120	Variable Capacitor Mtg. Bracket	.55	*46-6548	Tuning Control Knob	3.25
12-4652	Tuning Meter Mtg. Bracket (Used Only With Meter No. 122-42)	.15	*46-7249	Bass, Treble, Balance & Contour Control Knob (4 Req.)	.60
12-4729	Stereo Reflector Bracket	.25	46-7334	Loudness Control Knob	1.75
12-4945	I.F. Shield Bracket	.20	*46-7355	AFC & On-Off Control Knob (2 Req.)	.75
*12-5272	Switch Mtg. Bracket	.25	52-1214	Two Conductor Shielded Cable (used on 43-875)	.65
*12-5295	Mtg. Bracket	2.75	*52-1644	Two Conductor Cable (used on 83-7397)	
*12-5335	Tuning Meter Mtg. Bracket (Used Only With Meter 122-43)		*52-1645	Two Conductor Shielded Cable (used on 43-1110)	1.00
*12-5367	Heat Sink Bracket		*52-1646	Two Conductor Shielded Cable (used on 43-1110)	.75
17-143	Cable Clamp (Nylon)	.20	52-1647	Two Conductor Shielded Cable (used on 86-484)	.80
19-238	Coil Mtg. Clip (1 Part Of Ea. S-82954 & S-82955)	.10	*52-1648	Single Conductor Shielded Lead (used on 43-1110)	.80
19-448	Ground Clip (2 Req.)	.10	54-139	3/8-32 x 9/16 Palnut-Cadmium (used on 63-8244)	.03
19-453	Resistor Mtg. Clip (2 Used On 22-3254)	.05	54-450	Thread-Forming Palnut (6 Mt. 83-7383)	.03
19-464	Coil Mtg. Clip (Part Of S-76801)	.05	*54-506	Tinnerman Speed Nut (2 Mt. Ea. 126-1430 & 83-7206 & 8 Mt. Ea. S-84283) (20 Req.)	.03
19-480	Wire Retaining Clip (3 Req.)	.03	54-515	Thread-Forming Palnut (2 used on ea. 85-1078 & 2 used on 57-7553) (14 Req.)	.03
19-492	Cable Retaining Clamp (3 Req.)	.05	54-541	Thread-Forming Palnut (2 Mt. Ea. 57-7551 & 57-7552) (4 Req.)	.03
19-561	Capacitor Clamp	.10	54-579	10-32 x 3/8 Hex Nut-Steel-Cadmium (Mts. 103-158)	.03
20-1422	Peaking Coil	.75	54-590	Tinnerman Speed Nut (2 Mt. 12-4729)	.03
20-2008	Peaking Coil	.50	54-652	Thread-Forming Palnut (7 used on 83-7407)	.03
20-2033	Peaking Coil (2 Req.)	.40	54-818	Tinnerman Speed Nut (6 Req.)	.03
22-9	100 PF Disc Capacitor - 500V.	.25	*54-834	Thread-Forming Palnut (2 Mt. 57-7553)	.03
22-13	.0033 MF Disc Capacitor - 500V.	.25	*57-7504	Retainer Plate	.30
22-14	.0047 MF Disc Capacitor - 500V. (2 Req.)	.25	*57-7532	Die-Cast Escutcheon	13.45
22-18	.0022 MF Disc Capacitor - 500V. (9 Req.)	.25	*57-7551	Slide Switch Mtg. Plate	1.35
22-2333	2.2 PF Gimmick Capacitor - 500V.	.20	*57-7552	Slide Switch Mtg. Plate	1.35
22-2374	6 PF Disc Capacitor - 500V. (2 Req.)	.25	*57-7553	Function Plate & Socket	2.80
22-2424	1.5 PF Gimmick Capacitor - 500V.	.20	*57-7573	Bearing Plate	
22-2715	1.2 PF Gimmick Capacitor - 500V.	.20	58-315	Connector Plug (used on 52-1644)	.20
22-2720	1 PF Gimmick Capacitor - 500V.	.20	59-859	Dial Pointer	.55
22-2729	.001 MF Disc Capacitor - 25V. (2 Req.)	.25	61-222	Pulley (1 part of S-84096, 3 part of S-84098 & 4 part of S-84097)	.20
22-2884	5 MF Electrolytic Capacitor - 12V. (3 Req.)	1.50	63-1701	10 Ohm Resistor-1/2W. 10%	.17
22-2903	22 PF Disc Capacitor - 500V.	.25	63-1722	33 Ohm Resistor-1/2W. 10%	.17
22-3010	.01 MF Disc Capacitor - 25V. (2 Req.)	.45	63-1733	56 Ohm Resistor-1/2W. 10%	.17
22-3034	.05 MF Disc Capacitor - 25V. (27 Req.)	.45	63-1743	100 Ohm Resistor-1/2W. 10% (2 Req.)	.17
22-3080	.005 MF Disc Capacitor - 25V. (3 Req.)	.25	63-1747	120 Ohm Resistor-1/2W. 10%	.17
22-3177	390 PF Disc Capacitor - 500V. (2 Req.)	.25	63-1764	330 Ohm Resistor-1/2W. 10% (4 Req.)	.17
22-3254	.1 MF Disc Capacitor - 25V. (2 Req.)	.75	63-1768	390 Ohm Resistor-1/2W. 10%	.17
22-3362	560 PF Disc Capacitor - 500V. (2 Req.)	.25	63-1771	470 Ohm Resistor-1/2W. 10% (4 Req.)	.17
22-3444	.018 MF Capacitor - 500V. (2 Req.)		63-1775	560 Ohm Resistor-1/2W. 10%	.17
22-3448	10 MF Electrolytic Capacitor - 15V.	1.00	63-1778	680 Ohm Resistor-1/2W. 10% (7 Req.)	.17
22-3527	.22 MF Disc Capacitor - 12V. (Used On S-82954)	.60	63-1782	820 Ohm Resistor-1/2W. 10% (3 Req.)	.17
22-3596	.1 MF Capacitor - 500V. (2 Req.)	.50	63-1785	1000 Ohm Resistor-1/2W. 10% (8 Req.)	.17
22-3599	.015 MF Capacitor-50V. (2 Req.)	.30	63-1792	1500 Ohm Resistor-1/2W. 10% (2 Req.)	.34
22-3675	10 PF Disc Capacitor-500V.	.25	63-1796	1800 Ohm Resistor-1/2W. 10% (2 Req.)	
22-3687	1 MF Electrolytic Capacitor-500V. (13 Req.)	1.50	63-1799	2200 Ohm Resistor-1/2W. 10% (3 Req.)	.17
22-3826	.022 MF Mylar Capacitor-100V. (5 Req.)	.30	63-1803	2700 Ohm Resistor-1/2W. 10%	
22-3891	.0068 MF Capacitor-100V. (2 Req.)	.30	63-1806	3300 Ohm Resistor-1/2W. 10% (3 Req.)	.17
22-3896	5 MF Electrolytic Capacitor-25V. (2 Req.)	1.00			
22-3944	.0047 MF Disc Capacitor-25V. (Part of S-76801)	.25			

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PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
63-1810	3900 Ohm Resistor-1/2W. 10% (5 Req.)	.17	*83-7397	2 Lug Terminal Strip (used with 58-315)	.10
63-1813	4700 Ohm Resistor-1/2W. 10% (11 Req.)	.17	*83-7407	Escutcheon Strip (Top)	3.30
63-1814	4700 Ohm Resistor-1/2W. 20%	.17	*83-7410	Terminal Board-Function Switch (2 Req.)	.50
63-1817	5600 Ohm Resistor-1/2W. 10%	.17	*83-7411	30 Lug Terminal Strip	.90
63-1824	8200 Ohm Resistor-1/2W. 10%	.17	*83-7412	16 Lug Terminal Strip	.50
63-1825	9100 Ohm Resistor-1/2W. 5%	.34	*83-7415	Channel Strip-Side (2 Req.)	.70
63-1826	10K Ohm Resistor-1/2W. 5%		*83-7416	Channel Strip-Top & Bottom (2 Req.)	.90
63-1827	10K Ohm Resistor-1/2W. 10% (7 Req.)		*83-7557	Insulating Strip (use only when 85-1074 is used)	
63-1831	12K Ohm Resistor-1/2W. 10% (2 Req.)		*83-7567	Two Lug Terminal Strip	
63-1834	15K Ohm Resistor-1/2W. 10% (2 Req.)	.17	83-7575	Dial Crystal Strip (2 Req.)	.15
63-1838	18K Ohm Resistor-1/2W. 10% (5 Req.)	.17	*83-7598	Wire Retaining Strip	.10
63-1841	22K Ohm Resistor-1/2W. 10% (10 Req.)		84-105	Pointer Support	.55
63-1845	27K Ohm Resistor-1/2W. 10%	.17	*85-1075	Contour Switch	6.35
63-1848	33K Ohm Resistor-1/2W. 10% (4 Req.)	.17	*85-1077	AFC Switch	4.45
63-1852	39K Ohm Resistor-1/2W. 10% (2 Req.)		*85-1078	Function Switch (6 Req.)	.60
63-1859	56K Ohm Resistor-1/2W. 10% (2 Req.)	.17	*85-1110	AC Switch	8.50
63-1862	68K Ohm Resistor-1/2W. 10% (2 Req.)		-OR-		
63-1866	82K Ohm Resistor-1/2W. 10% (3 Req.)	.34	85-1074	AC Switch	8.50
63-1869	100K Ohm Resistor-1/2W. 10% (11 Req.)	.17	86-344	Connector Terminal (used on 78-1920)	.03
63-1870	100K Ohm Resistor-1/2W. 20% (2 Req.)	.17	86-388	Connector Terminal (1 used on 43-1110 & 2 used on 78-1761)	.05
63-1876	150K Ohm Resistor-1/2W. 10% (2 Req.)	.17	86-390	Connector Terminal (1 used on 43-1110 & 8 used on 43-571)	.03
63-1880	180K Ohm Resistor-1/2W. 10% (5 Req.)	.63	86-483	Connector Terminal (9 used on 43-875 & 22 used on 43-879)	.03
63-1883	220K Ohm Resistor-1/2W. 10% (3 Req.)	.17	86-484	Connector Terminal (22 used on 43-878 & 6 used on 43-880)	.03
63-1887	270K Ohm Resistor-1/2W. 10% (2 Req.)	.17	86-496	Ground Terminal (7 Req.)	.03
63-1890	330K Ohm Resistor-1/2W. 10% (2 Req.)	.17	*86-538	Connector Terminal (32 used on 43-1110)	.05
63-1894	390K Ohm Resistor-1/2W. 10% (4 Req.)	.17	93-369	No. 10 Internal Shakeproof Lockwasher-Cadmium (used on 103-158)	.03
63-1897	470K Ohm Resistor-1/2W. 10% (2 Req.)	.17	93-502	No. 6 External Shakeproof Lockwasher-Cadmium Plated (6 used on 83-7407)	.03
63-1911	1 Megohm Resistor-1/2W. 10% (9 Req.)	.17	93-1455	Washer (used on 114-77)	.03
63-1915	1.2 Megohm Resistor-1/2W. 10%	.17	93-1617	Flat Washer (1 used on ea. 54-834) (2 Req.)	.03
63-1918	1.5 Megohm Resistor-1/2W. 10% (2 Req.)	.17	94-773	Insert Bushing (2 Req.)	.10
63-1922	1.8 Megohm Resistor-1/2W. 10% (4 Req.)	.17	94-1379	Insulating Bushing (2 Req.)	.03
63-1925	2.2 Megohm Resistor-1/2W. 10% (2 Req.)	.17	95-2313	Doubler Mixer Transformer	3.80
63-1929	2.7 Megohm Resistor-1/2W. 10% (2 Req.)	.17	95-2314	Detector Mixer Transformer	2.90
63-1932	3.3 Megohm Resistor-1/2W. 10% (18 Req.)	.17	95-2315	Input Mixer Transformer	3.05
63-1936	3.9 Megohm Resistor-1/2W. 10% (3 Req.)	.17	95-2316	Trap Coil	1.86
63-1939	4.7 Megohm Resistor-1/2W. 10% (2 Req.)	.17	95-2324	Ratio Detector Transformer	5.15
63-1946	6.8 Megohm Resistor-1/2W. 10% (2 Req.)	.17	95-2328	2ND. I.F. Transformer (FM)	3.35
63-1953	10 Megohm Resistor-1/2W. 10% (2 Req.)	.17	95-2387	3RD & 4TH I.F. Transformer-FM (2 Req.)	2.20
63-3238	Muting Control	.85	*95-2721	1ST. I.F. Transformer (AM)	2.30
63-4548	22 Megohm Resistor-1/2W. 20% (18 Req.)	.17	*95-2722	2ND I.F. Transformer (AM)	2.65
*63-4561	47 Megohm Resistor-1/2W. 10%	.17	*95-2723	3RD I.F. Transformer (AM)	3.50
*63-8244	Dual Loudness Control		100-249	Pilot Light Bulb (9 Req.)	.18
*63-8258	Potentiometer		100-384	Stereo Indicator Bulb (6 Req.)	.50
*63-8259	Bass Slide Control		103-23	Diode (8 Req.)	.75
*63-8260	Treble Slide Control		103-96	Diode	1.90
*63-8282	Balance Slide Control		103-142	Silicon Diode (21 Req.)	.45
*63-8298	200 Ohm Resistor-15W. 10%		103-158	Zener Diode	4.50
64-862	Steel Eyelet (4 Mt. Tuner)	.03	105-93	38 KHz Filter (2 Req.)	.80
69-160	4-40 x 1/4 Rd. Hd. Mach. Screw-Cadmium (2 Mt. Ea. 85-1110 or 85-1074 & 85-1077) (4 Req.)	.03	112-1376	4-24 x 3/8 Phillips Pan Hd. Self-Tap. Screw-Stat. Bronze (4 used on ea. 63-8259 & 63-8260 & 4 used on 63-8282 & 85-1075) (16 Req.)	.03
78-1099	3 Contact Socket (part of S-84055)	.20	113-8	6-32 x 1/4 x 1/4 Hex Hd. M.S.-N.P.-Sems (3 used on 12-4120)	.03
78-1761	Stereo Indicator Socket & Wire	.70	114-26	8-18 x 1/4 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (1 used on S-84096 & 2 Mt. 22-4817)	.03
78-1838	Transistor Socket (18 Req.)	.25	114-77	6-20 x 5/16 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (used on 12-5367)	.03
*78-1920	Dial Light Socket & Wire	3.30	114-344	6-20 x 1/4 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (2 mt. ea. 12-4652, 126-1204 & 126-1281, 2 joins 29AT24 & Escutcheon Assem.) (12 Req.)	.03
80-1091	Tension Spring (Gang)	.08	114-390	8 x 7/16 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (6 join 29AT24 & Escutcheon Assem.)	.03
80-1140	Tension Spring (Pointer)	.10	114-654	6-20 x 3/8 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (2 used on 84-105)	.03
80-2035	Spring (used on 46-6548)	.25	114-801	8-18 x 5/16 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (2 Mt. 12-4945 & 4 Mt. Ea. S-84097 & S-84098) (11 Req.)	.03
83-1475	Cable Retaining Strip	.03	114-804	8-18 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze Flat Washer Att. (4 Mt. Tuner)	.03
83-5164	4 Lug Terminal Strip	.10			
83-5165	Insulating Strip (used on 83-5164)	.03			
83-5170	3 Lug Terminal Strip	.10			
83-5171	Insulating Strip	.03			
83-5288	13 Lug Terminal Strip	.35			
83-5290	19 Lug Terminal Strip	.45			
83-5391	20 Lug Terminal Strip (3 Req.)	.50			
83-5392	32 Lug Terminal Strip	.80			
83-5736	3 Lug Terminal Strip	.20			
83-5737	Insulating Strip	.03			
83-6430	3 Lug Terminal Strip	.55			
83-7206	Slider Guide (8 Req.)	.30			
*83-7324	Trim Strip (Bottom)	6.75			
*83-7325	Trim Strip (Top)	7.50			
*83-7383	Escutcheon Strip	2.15			
*83-7384	Indicator Strip	.10			
*83-7385	Indicator Strip	.10			
*83-7386	Indicator Strip	.10			
*83-7387	Indicator Strip	.10			

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PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
114-816	8-18 x 5/16 Hex Hd. Self-Tap. Screw-Stat. Bronze - Flat Washer Att. (used on 17-143)	.05	63-1778	680 Ohm Resistor-1/2W. 10%	.17
114-920	8-15 x 3/8 Hex Hd. Self-Tap. Screw-Stat. Bronze (2 Mt. Printed Circuit Board & Bracket Assem.)	.03	63-4122	33 Ohm Resistor-1/4W. 10%	.17
121-430	Transistor-Pre-Ampl. (2 Req.)	1.10	63-4157	220 Ohm Resistor-1/4W. 10%	.17
121-433	Transistor-Pre-Ampl. (2 Req.)	1.30	63-4171	470 Ohm Resistor-1/4W. 10%	.17
-OR-			63-4175	560 Ohm Resistor-1/4W. 10%	.17
121-752	Transistor-Pre-Ampl. (2 Req.)	1.52	63-4185	1000 Ohm Resistor-1/4W. 10%	.17
121-477	Transistor-Stereo-Mono Switch Supply	.75	63-4199	2200 Ohm Resistor-1/4W. 10%	.17
121-496	Transistor-Comp. Ampl., 19KHz Ampl., 38KHz Ampl., Stereo Ind. Switch (4 Req.)	.85	63-4210	3900 Ohm Resistor-1/4W. 10%	.17
121-497	Transistor-F.M.B.-Switching A.M.B.-Switching, Stereo B-Switch, Ext. Bass Switch (4 Req.)	.85	63-4227	10K Ohm Resistor-1/4W. 10%	.17
121-546	Transistor-FM & AM 2ND. I.F., FM 3RD. I.F., FM 4TH I.F. (3 Req.)	.80	63-4241	22K Ohm Resistor-1/4W. 10%	.17
121-602	Transistor-Pre-Driver (2 Req.)	1.05	63-4269	100K Ohm Resistor-1/4W. 10%	.17
121-603	Transistor-Pre-Ampl. (2 Req.)	.80	63-4283	220K Ohm Resistor-1/4W. 10%	.17
121-638	Transistor-AM Mixer	.75	63-4297	470K Ohm Resistor-1/4W. 10%	.17
121-734	Transistor-Biplex Detector	1.00	64-88	.088 Dia. x 1/8 Lg. Tubular Rivet-N.P.	.03
*121-753	Transistor-AM R.F., AM Oscillator (2 Req.)	.72	64-318	Brass Eyelet-USNC No. SE37 (6 Req.)	.03
*121-756	Transistor-Phono Stereo-Mono Switch	5.30	76-1541	Guide Shaft (2 Req.)	.20
*121-775	Transistor-FM & AM 1ST I.F.	.80	76-1820	Drive Shaft (used on 12-4192)	2.40
-OR-			78-1227	Transistor Socket (2 Req.)	.35
121-614	Transistor-FM & AM 1ST I.F.	.80	78-1378	Transistor Socket	.40
*122-42	Tuning Meter	8.45	79-174-12	No. 18 Sleeving-Yellow-1 1/2"	.03
-OR-			80-1467	Shaft Retaining Spring	.05
*122-43	Tuning Meter		80-1853	Transformer Retaining Spring	.03
125-117	Rubber Grommet (4 used on Tuner)	.03	83-3829	2 Lug Terminal Strip	.05
126-1204	Shield	.75	86-441	Insulated Feed-Thru Terminal (2 Req.)	.05
126-1281	Dial Scale Light Shield	1.85	94-613	Iron Core Bushing (4 Req.)	.10
126-1416	Slider Guide Shield (8 Req.)	.15	94-1472	Tuning Shaft Bushing	.20
*126-1419	Stereo Light Shield	.15	95-2322	1st. I.F. Transformer (FM)	2.15
126-1430	Light Shield (2 Req.)		103-47	Diode	3.75
*126-1437	Pilot Light Shield (2 Req.)		113-26	6-32 x 1/4 x 1/4 Hex. Hd. Mach. Screw-N.P.-Ext. Lockwasher Att. (2 used on ea. 12-4193 & 57-5333) (4 Req.)	.03
149-211	Iron Core (1 part of ea. S-82954 & S-82955)	.10	121-432	Transistor-FM-Oscillator	1.35
149-311	Ferrite Core (2 Req.)	.05	121-731	Transistor-FM-R.F.	1.44
149-370	Iron Core (part of S-76801)	.15	121-732	Transistor-FM-Mixer	.70
*185-3	Silicon Controlled Rectifier (FM Switch, AM Switch, Phono Switch, Tape Switch) (4 Req.)	3.50	126-1141	Coil Shield-Side (2 Req.)	.15
*185-4	Silicon Controlled Rectifier-Stereo-Mono Switch, Ext. Bass Switch On-Off (2 Req.)	2.35	126-1142	Coil Shield-Center	.15
185-5	Silicon Controlled Rectifier-Stereo-Mono Switch, Ext. Bass Switch On-Off (2 Req.)		149-368	Iron Core Spring (3 Req.)	.30
188-137	Retaining Ring (used on 46-6548)	.10	149-385	Iron Core & Spring	.30
188-367	Clamping Ring (used on 59-859)	.03	188-232	Retaining Ring (4 Req.)	.03
*192-469	Dial Crystal	3.25	S-62887	FM Coil Winding Assem.-FM Antenna Coil, FM R.F. Input Coil, FM Detector Coil & FM Oscillator Coil (4 Req.)	.60
*199-534	Shielded Paper Sleeve	.10	S-69085	Shield & Terminal Strip Assem.	.35
S-72362	Drive Cord & Eyelet Assem. (Front)	.30	S-83409	Detector Coil Assem.	1.55
S-76801	Antenna Coil, Capacitor & Wire Assem.	1.75	S-83410	Oscillator Coil Assem.	1.75
S-79037	Drive Cord & Eyelet Assem.	.30	S-83411	Antenna Coil Assem.	1.25
*S-82954	Broadcast Oscillator Coil Assem.	1.70	S-83412	R.F. Input Coil Assem.	1.60
*S-82955	Broadcast Detector Coil Assem.	1.30	S-83414	Bracket, Shaft & Pin Assem.	5.25
*S-83179	FM Tuner Assem.	39.20	S-84038	20 Contact Housing, Wire & Terminal Assem.	5.25
12-4192	Tuner Guide Bracket	.30	S-84122	20 Contact Housing, Wire & Terminal Assem.	
12-4193	Coil Mtg. Bracket	.15	*S-84055	Phono Socket & Bracket Assem.	.70
19-322	Coil Mtg. Clip (4 Req.)	.05	*S-84096	Bracket & Pulley Assem.	.30
20-1256	Trap Coil	.50	*S-84097	Escutcheon Mtg. Bracket Assem. (R.H.)	2.45
22-2374	6 PF Disc Capacitor-500V.	.25	*S-84098	Escutcheon Mtg. Bracket Assem. (L.H.)	2.70
22-2424	1.5 Gimmick Capacitor-500V	.20	*S-84104	Drive Cord & Eyelet Assem. (Pointer)	.20
22-2642	15 PF Disc Capacitor-500V.	.25	*S-84283	Light Shield & Bracket Assem. (2 Req.)	
22-3393	.01 MF Disc Capacitor-25V. (4 Req.)	.25	FM TUNER ASSEMBLY S-82931		
22-3479	2.2 PF Disc Capacitor-500V.	.20	12-4192	Tuner Guide Bracket	.30
22-3675	10 PF Disc Capacitor-10V.	.25	12-4193	Coil Mtg. Bracket	.15
22-4515	1.8 PF Gimmick Capacitor-500V.	.25	19-322	Coil Mtg. Clip (4 Req.)	.05
22-4613	Feed-Thru Capacitor-500V. (5 Req.)	.10	20-1256	Trap Coil	.50
22-4718	Feed-Thru Capacitor-500V.	.10	22-2374	6 PF Disc Capacitor - 500V.	.25
22-5164	1.2 PF Gimmick Capacitor-500V.	.20	22-2424	1.5 Gimmick Capacitor - 500V.	.20
22-5281	23 PF Disc Capacitor-500V.	.25	22-2642	15 PF Disc Capacitor - 500V.	.25
22-5318	34 PF Disc Capacitor-500V. (3 Req.)	.20	22-3393	.01 MF Disc Capacitor - 25V. (4 Req.)	.25
22-5372	Tuner Cover	.30	22-3479	2.2 PF Disc Capacitor - 500V.	.20
44-48	Antenna Jack	.20	22-3675	10 PF Disc Capacitor - 10V.	.25
56-426	Roll Pin (6 Req.)	.05	22-4515	1.8 PF Gimmick Capacitor - 500V.	.25
57-5333	Bearing Plate	.03	22-4613	Feed-Thru Capacitor - 500V. (5 Req.)	.10
			22-4718	Feed-Thru Capacitor - 500V.	.10
			22-5164	1.2 PF Gimmick Capacitor - 500V.	.20

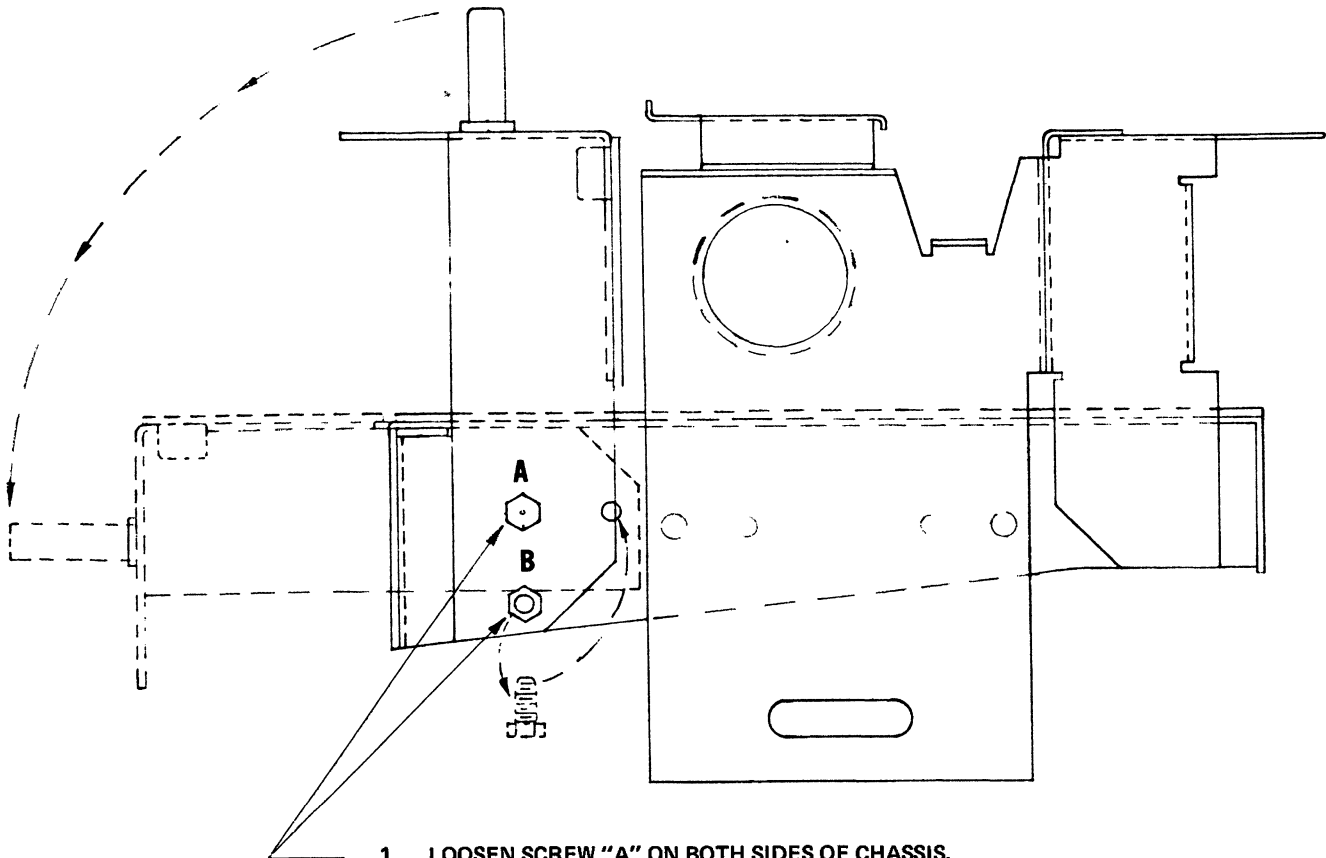
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PART NUMBER	DESCRIPTION	PRICE	PART NUMBER	DESCRIPTION	PRICE
22-5281	23 PF Disc Capacitor - 500V.	.25	22-3393	.01 MF Disc Capacitor - 25V. (4 Req.)	.25
22-5318	34 PF Disc Capacitor - 500V. (3 Req.)	.20	22-3479	2.2 PF Disc Capacitor - 500V.	.20
24-1372	Tuner Cover	.30	22-3675	10 PF Disc Capacitor - 10V.	.25
44-48	Antenna Jack	.20	22-4515	1.8 PF Gimmick Capacitor - 500V.	.25
56-426	Roll Pin (6 Req.)	.05	22-4613	Feed-Thru Capacitor - 500V. (5 Req.)	.10
57-5333	Bearing Plate	.03	22-4718	Feed-Thru Capacitor - 500V.	.10
63-1778	680 Ohm Resistor - ½W. 10%	.17	22-5164	1.2 PF Gimmick Capacitor - 500V.	.20
63-4122	33 Ohm Resistor - ¼W. 10%	.17	22-5281	23 PF Disc Capacitor - 500V.	.25
63-4157	220 Ohm Resistor - ¼W. 10%	.17	22-5318	34 PF Disc Capacitor - 500V. (3 Req.)	.20
63-4171	470 Ohm Resistor - ¼W. 10%	.17	24-1372	Tuner Cover	.30
63-4175	560 Ohm Resistor - ¼W. 10%	.17	44-48	Antenna Jack	.20
63-4185	1000 Ohm Resistor - ¼W. 10%	.17	56-426	Roll Pin (6 Req.)	.05
63-4199	2200 Ohm Resistor - ¼W. 10%	.17	57-5333	Bearing Plate	.03
63-4210	3900 Ohm Resistor - ¼W. 10%	.17	63-1778	680 Ohm Resistor - ½W. 10%	.17
63-4227	10K Ohm Resistor - ¼W. 10%	.17	63-4122	33 Ohm Resistor - ¼W. 10%	.17
63-4241	22K Ohm Resistor - ¼W. 10%	.17	63-4157	220 Ohm Resistor - ¼W. 10%	.17
63-4269	100K Ohm Resistor - ¼W. 10%	.17	63-4171	470 Ohm Resistor - ¼W. 10%	.17
63-4283	220K Ohm Resistor - ¼W. 10%	.17	63-4175	560 Ohm Resistor - ¼W. 10%	.17
63-4297	470K Ohm Resistor - ¼W. 10%	.17	63-4185	1000 Ohm Resistor - ¼W. 10%	.17
64-88	.088 Dia. x 1/8 Lg. Tubular Rivet - N.P. (Part Of S-69085)	.03	63-4199	2200 Ohm Resistor - ¼W. 10%	.17
64-318	Brass Eyelet - USMC No. SE37 (2 Used On Ea. 78-1227 & 2 Used On 78-1378) (6 Req.)	.03	63-4210	3900 Ohm Resistor - ¼W. 10%	.17
76-1541	Guide Shaft (2 Req.)	.20	63-4227	10K Ohm Resistor - ¼W. 10%	.17
78-1227	Transistor Socket (2 Req.)	.35	63-4241	22K Ohm Resistor - ¼W. 10%	.17
78-1378	Transistor Socket	.40	63-4269	100K Ohm Resistor - ¼W. 10%	.17
79-174-12	No. 18 Sleeving - Yellow - 1½"	.03	63-4283	220K Ohm Resistor - ¼W. 10%	.17
80-1467	Shaft Retaining Spring	.05	63-4297	470K Ohm Resistor - ¼W. 10%	.17
80-1853	Transformer Retaining Spring	.03	64-88	.088 Dia. x 1/8 Lg. Tubular Rivet - N.P.	.03
83-3829	2 Lug Terminal Strip	.05	64-318	Brass Eyelet - USMC No. SE37 (6 Req.)	.03
86-441	Insulated Feed-Thru Terminal (2 Req.)	.05	76-1541	Guide Shaft (2 Req.)	.20
94-613	Iron Core Bushing (4 Req.)	.10	76-1820	Drive Shaft (Used On 12-4192)	2.40
94-1534	Tuning Shaft Bushing	.20	78-1227	Transistor Socket (2 Req.)	.35
95-2322	1st. I.F. Transformer (FM)	2.15	78-1378	Transistor Socket	.40
103-47	Diode	3.75	79-174-12	No. 18 Sleeving - Yellow - 1½"	.03
113-26	6-32 x 1/4 x 1/4 Hex Hd. Mach. Screw - N.P. - Ext. Lockwasher Att. (2 Used On Ea. 12-4193 & 57-5333) (4 Req.)	.03	80-1467	Shaft Retaining Spring	.05
121-432	Transistor - FM - Oscillator	1.35	80-1853	Transformer Retaining Spring	.03
121-731	Transistor - FM - RF	1.44	83-3829	2 Lug Terminal Strip	.05
121-732	Transistor - FM - Mixer	.70	86-441	Insulated Feed-Thru Terminal (2 Req.)	.05
126-1141	Coil Shield - Side (2 Req.)	.15	94-613	Iron Core Bushing (4 Req.)	.10
126-1142	Coil Shield - Center	.15	94-1472	Tuning Shaft Bushing	.20
149-368	Iron Core & Spring (3 Req.)	.30	95-2322	1st. I.F. Transformer (FM)	2.15
149-385	Iron Core & Spring	.30	103-47	Diode	3.75
188-232	Retaining Ring (1 Used On Ea. 94-613) (4 Req.)	.03	113-26	6-32 x 1/4 x 1/4 Hex Hd. Mach. Screw - N.P. - Ext. Lockwasher Att. (2 Used On Ea. 12-4193 & 57-5333) (4 Req.)	.03
S-62887	FM Coil Winding Assem. - FM Antenna Coil, FM - RF Input Coil, FM Detector Coil & FM Oscillator Coil (4 Req.)	.60	121-432	Transistor - FM - Oscillator	1.35
S-69085	Shield & Terminal Strip Assem.	.35	121-731	Transistor - FM - R.F.	1.44
S-83409	Detector Coil Assem.	1.55	121-732	Transistor - FM - Mixer	.70
S-83410	Oscillator Coil Assem.	1.75	126-1141	Coil Shield - Side (2 Req.)	.15
S-83411	Antenna Coil Assem.	1.25	126-1142	Coil Shield - Center	.15
S-83412	R.F. Input Coil Assem.	1.60	149-368	Iron Core Spring (3 Req.)	.30
S-83414	Bracket, Shaft & Pin Assem.	5.25	149-385	Iron Core & Spring	.30
	FM TUNER ASSEMBLY S-83179		188-232	Retaining Ring (4 Req.)	.03
12-4192	Tuner Guide Bracket	.30	S-62887	FM Coil Winding Assem. - FM Antenna Coil, FM R.F. Input Coil, FM Detector Coil & FM Oscillator Coil (4 Req.)	.60
12-4193	Coil Mtg. Bracket	.15	S-69085	Shield & Terminal Strip Assem.	.35
19-322	Coil Mtg. Clip (4 Req.)	.05	S-83409	Detector Coil Assem.	1.55
20-1256	Trap Coil	.50	S-83410	Oscillator Coil Assem.	1.75
22-2374	6 PF Disc Capacitor - 500V.	.25	S-83411	Antenna Coil Assem.	1.25
22-2424	1.5 Gimmick Capacitor - 500V.	.20	S-83412	R.F. Input Coil Assem.	1.60
22-2642	15 PF Disc Capacitor - 500V.	.25	S-83414	Bracket, Shaft & Pin Assem.	5.25

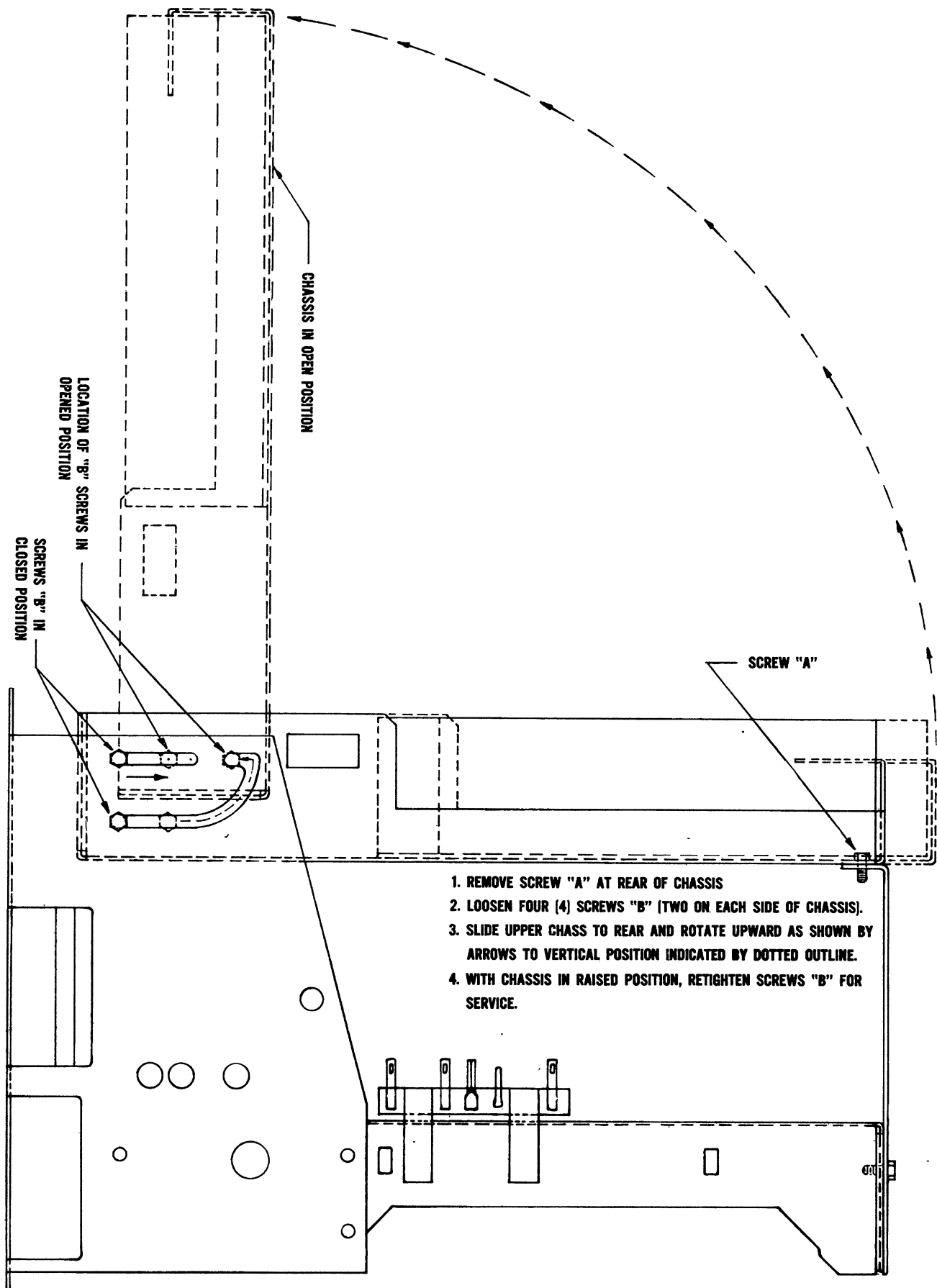
*Denotes parts not previously used in Zenith receivers.

MECHANICAL ASSEMBLIES

Zenith engineers have devised chassis constructions which, while maintaining a compact package size, will provide maximum access to the chassis should service be required. Illustrated here are two chassis configurations with instructions for tilting sub chassis into working position.

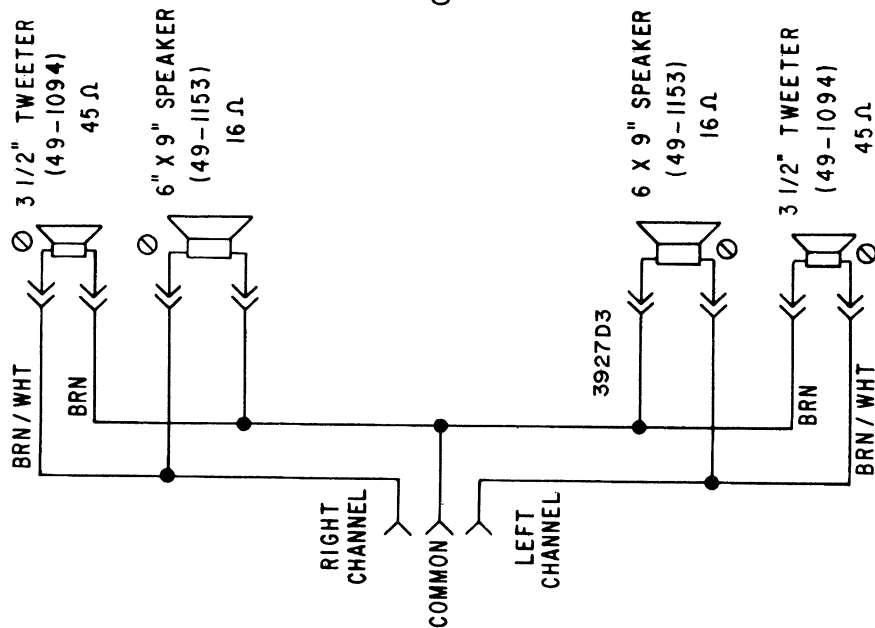


CHASSIS 20AT30(Z), 20AT31(Z) AND 27BT30(Z)

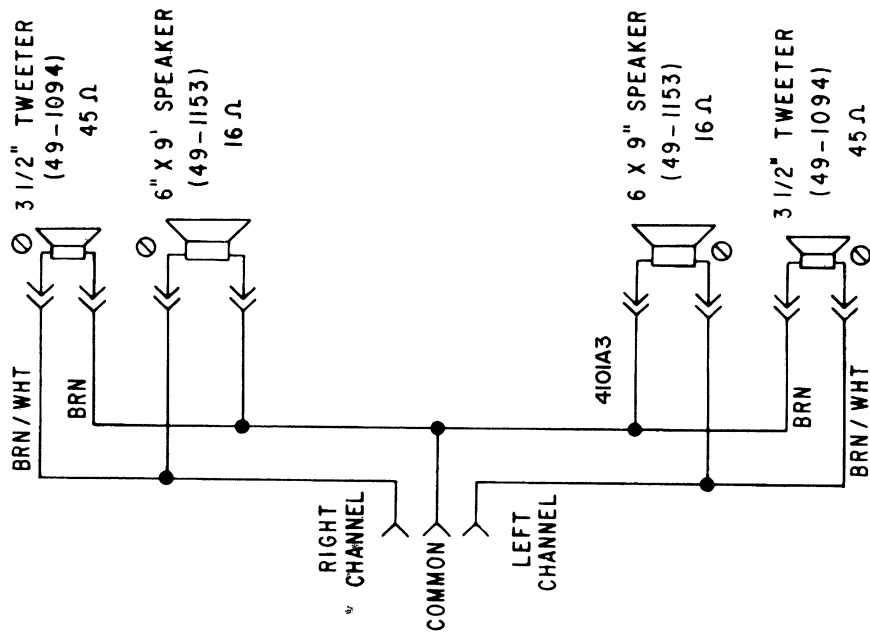


CHASSIS 25AT20 AND 25BT22

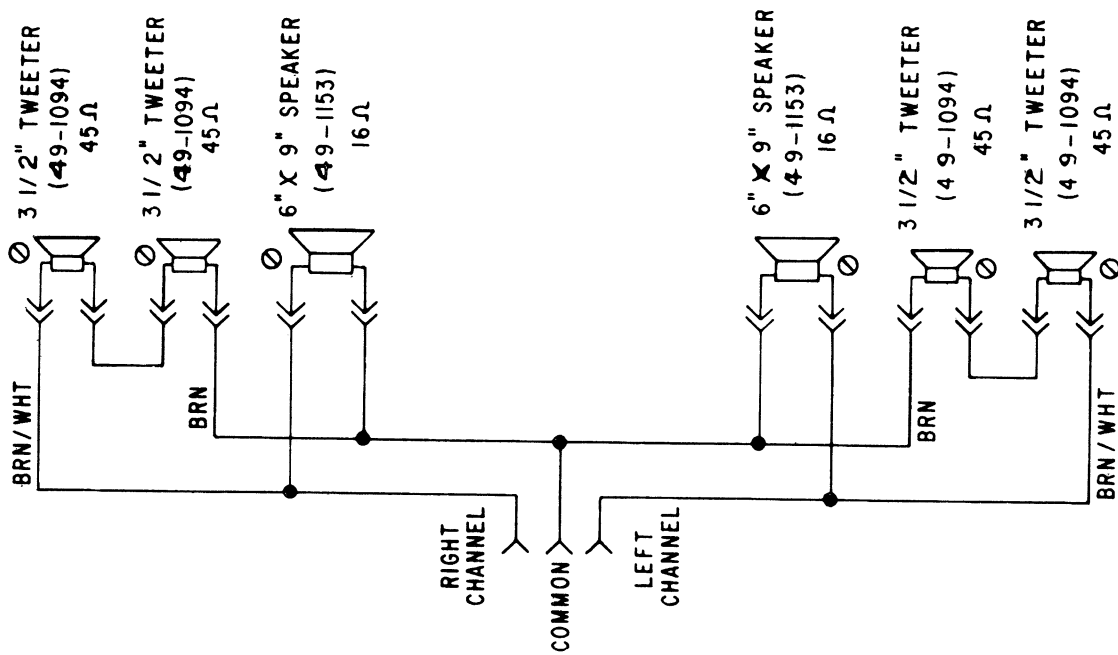
B906



B907, B908



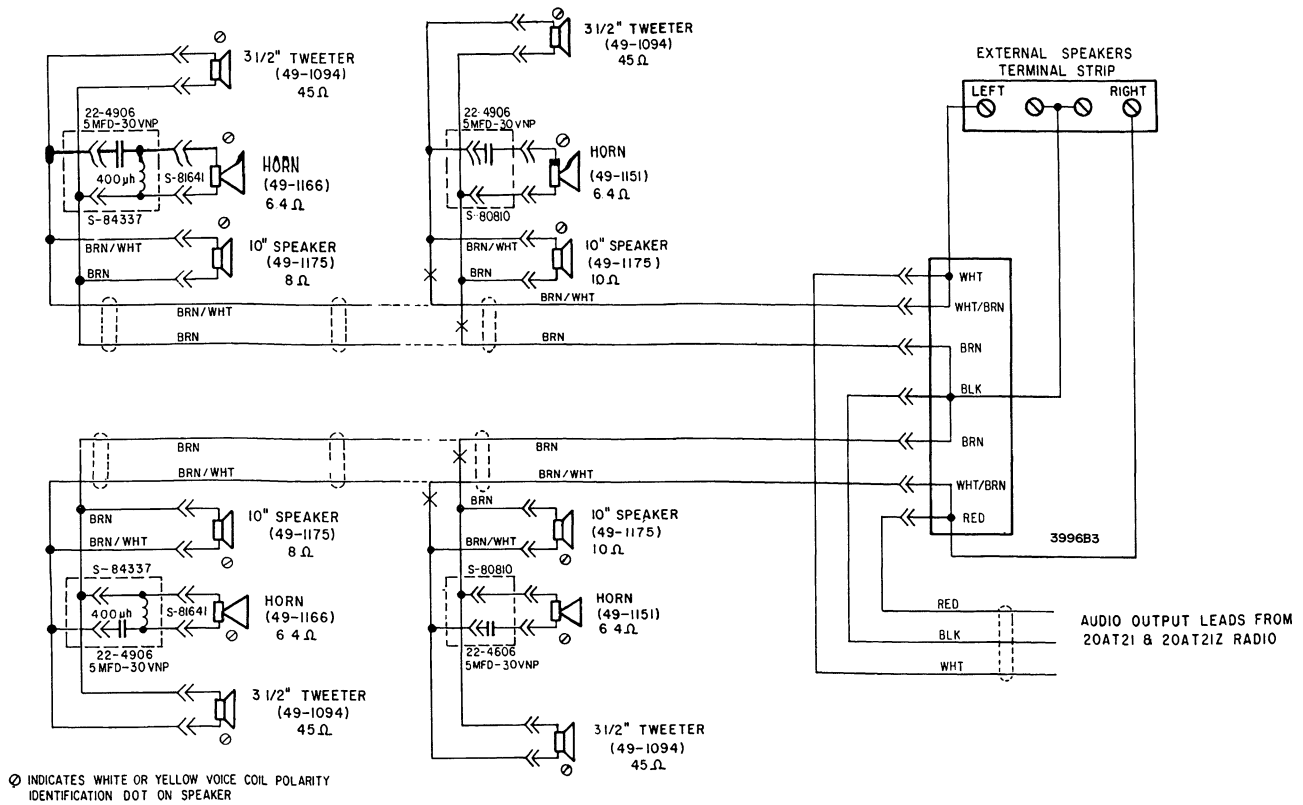
B910



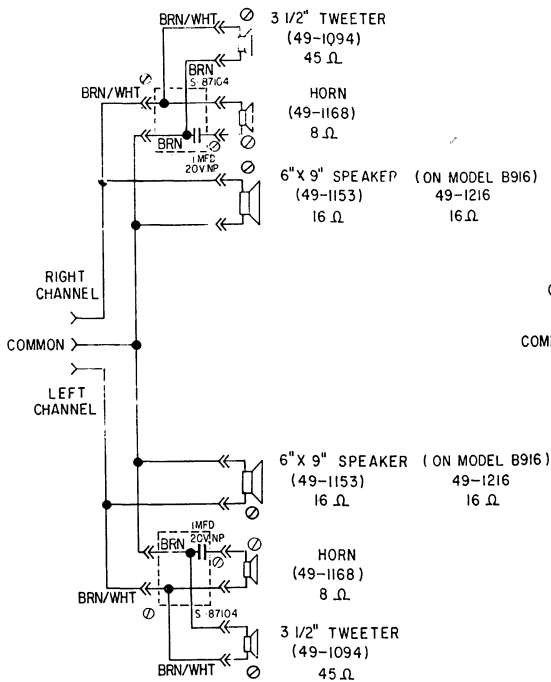
NOTE:
 ⊙ INDICATES WHITE OR YELLOW VOICE COIL
 ⊙ POLARITY IDENTIFICATION DOT ON SPEAKER

**SPEAKER WIRING FOR
MODEL B931**

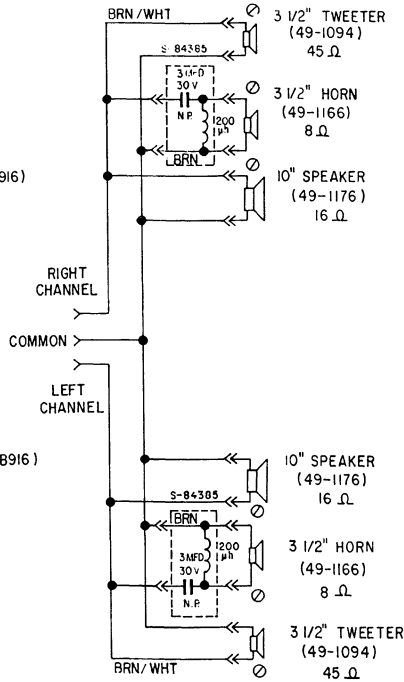
**SPEAKER WIRING FOR MODEL
B935P**



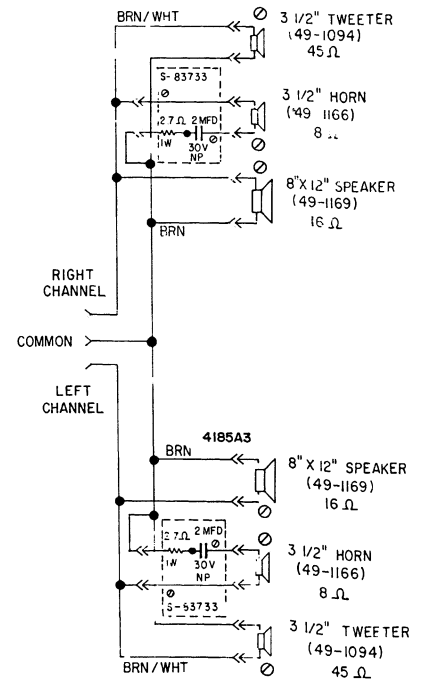
B914, B916



B920



B923, B925, B929

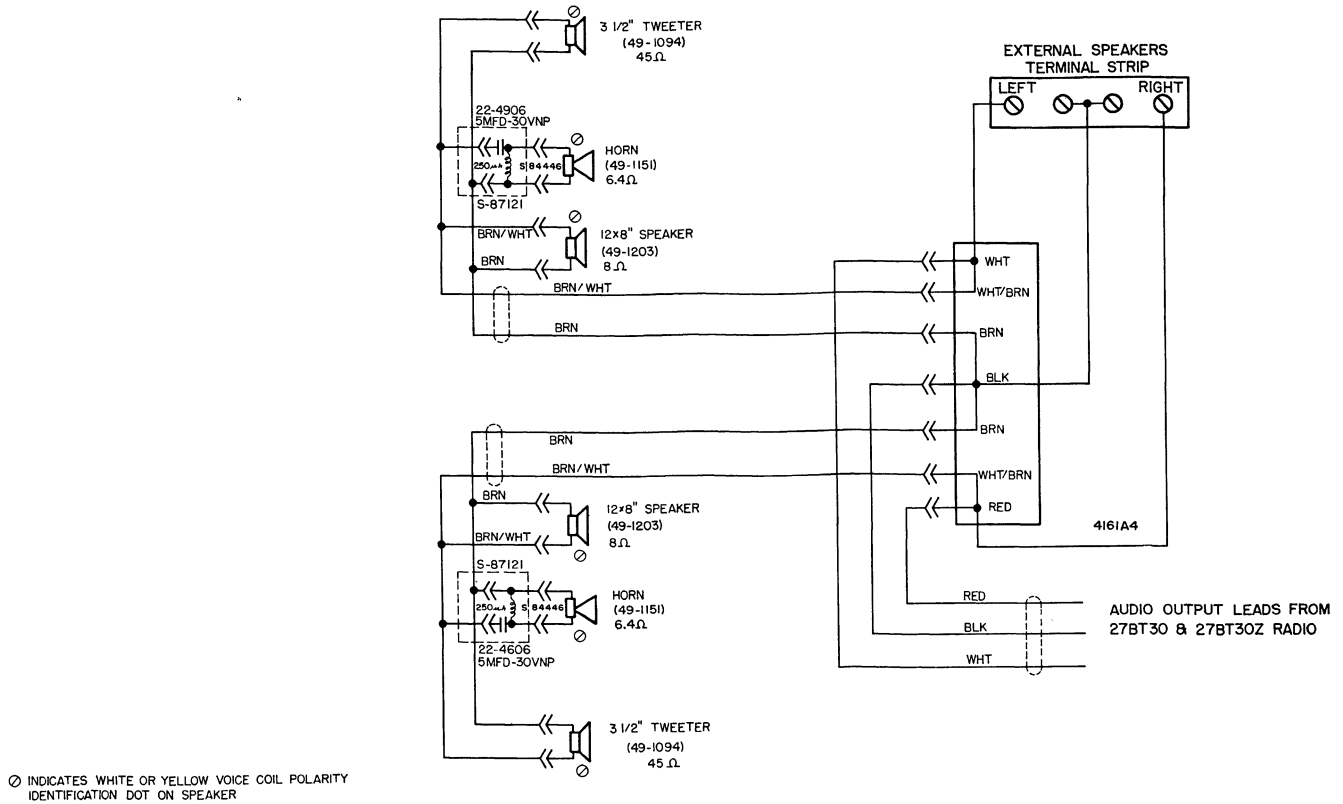


NOTE

⊙ INDICATES WHITE OR YELLOW VOICE COIL POLARITY IDENTIFICATION DOT ON SPEAKER

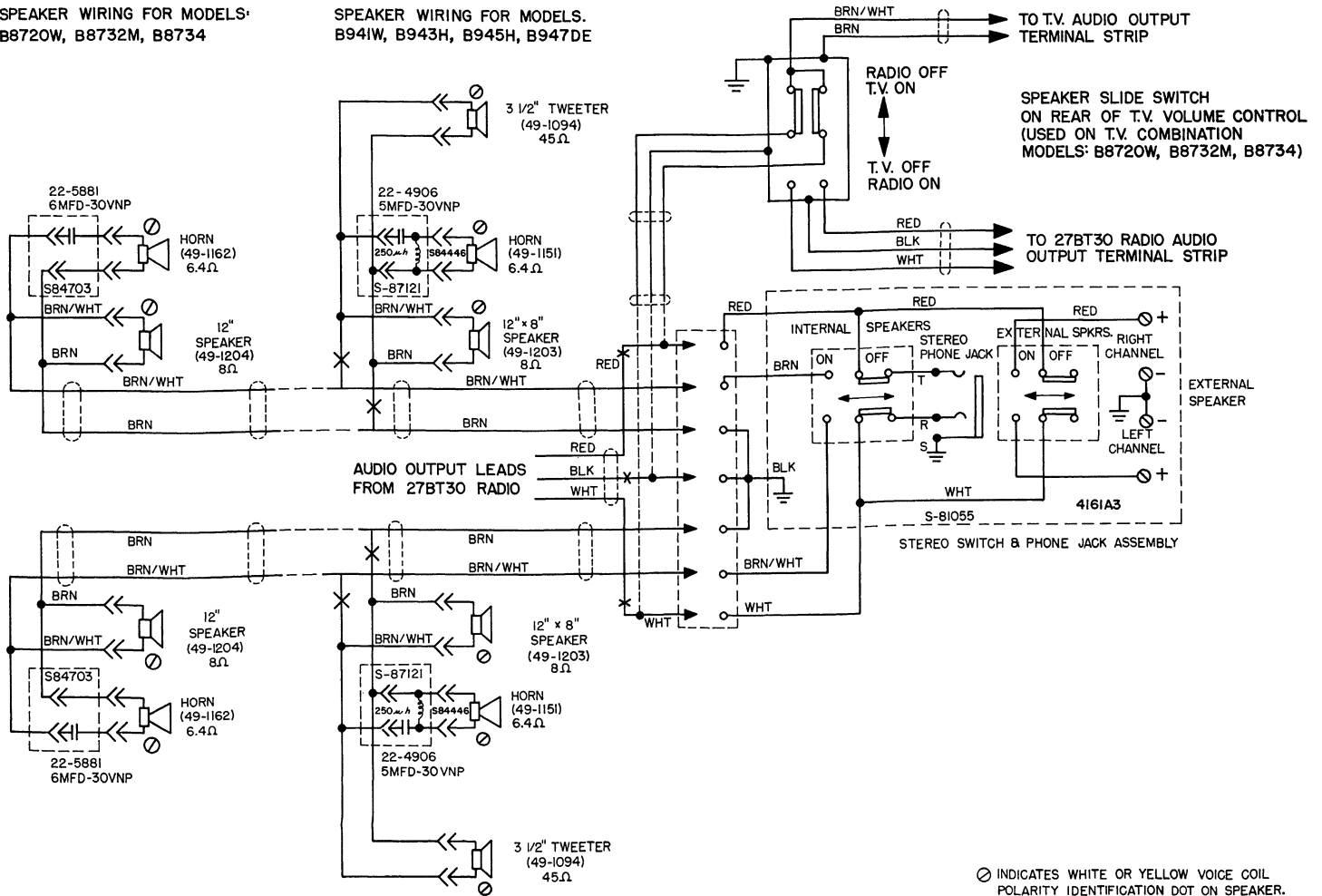
SPEAKER WIRING SCHEMATICS

**SPEAKER WIRING FOR MODELS
B937 & B939DE**

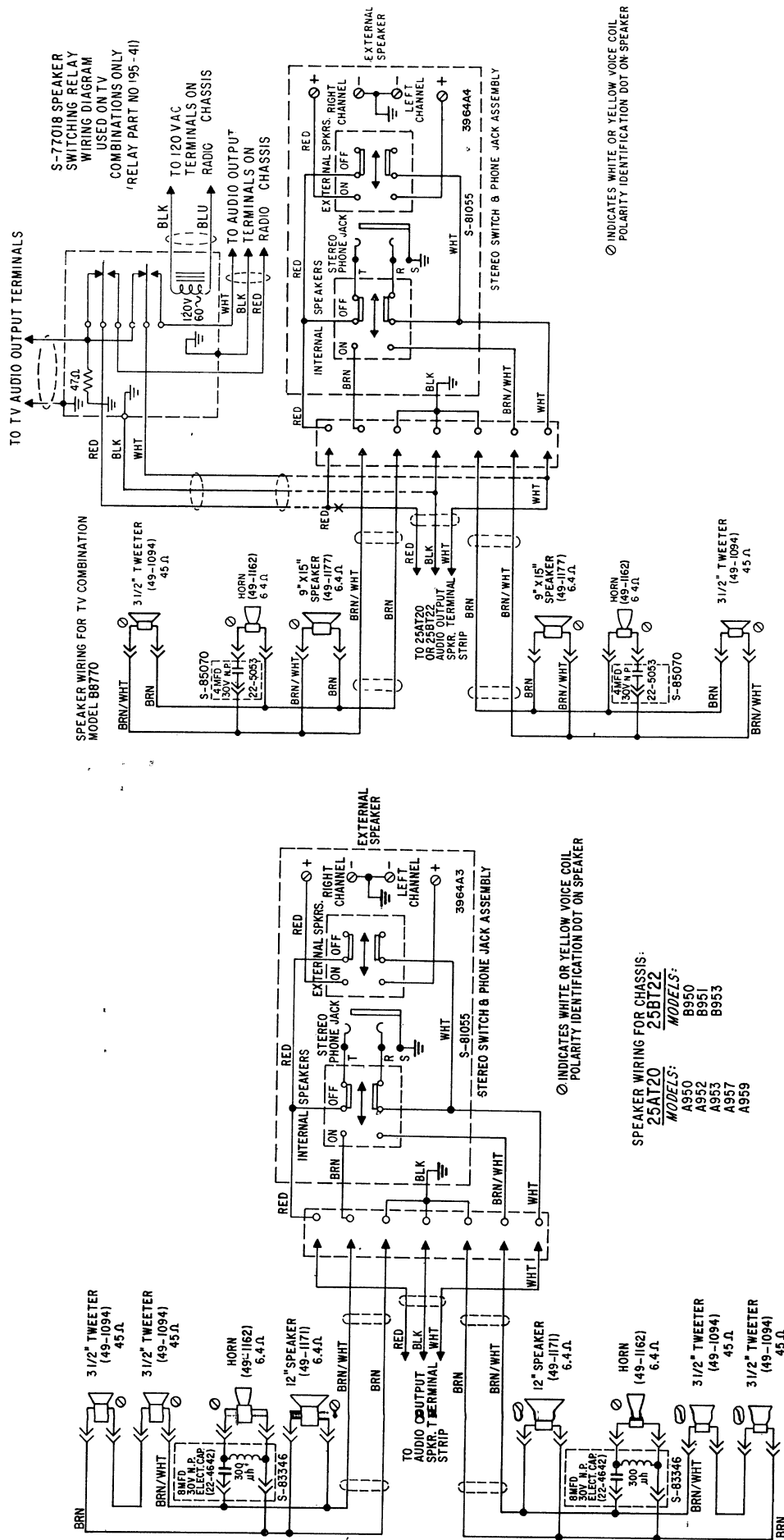


**SPEAKER WIRING FOR MODELS:
B8720W, B8732M, B8734**

**SPEAKER WIRING FOR MODELS:
B941W, B943H, B945H, B947DE**



SPEAKER WIRING SCHEMATICS

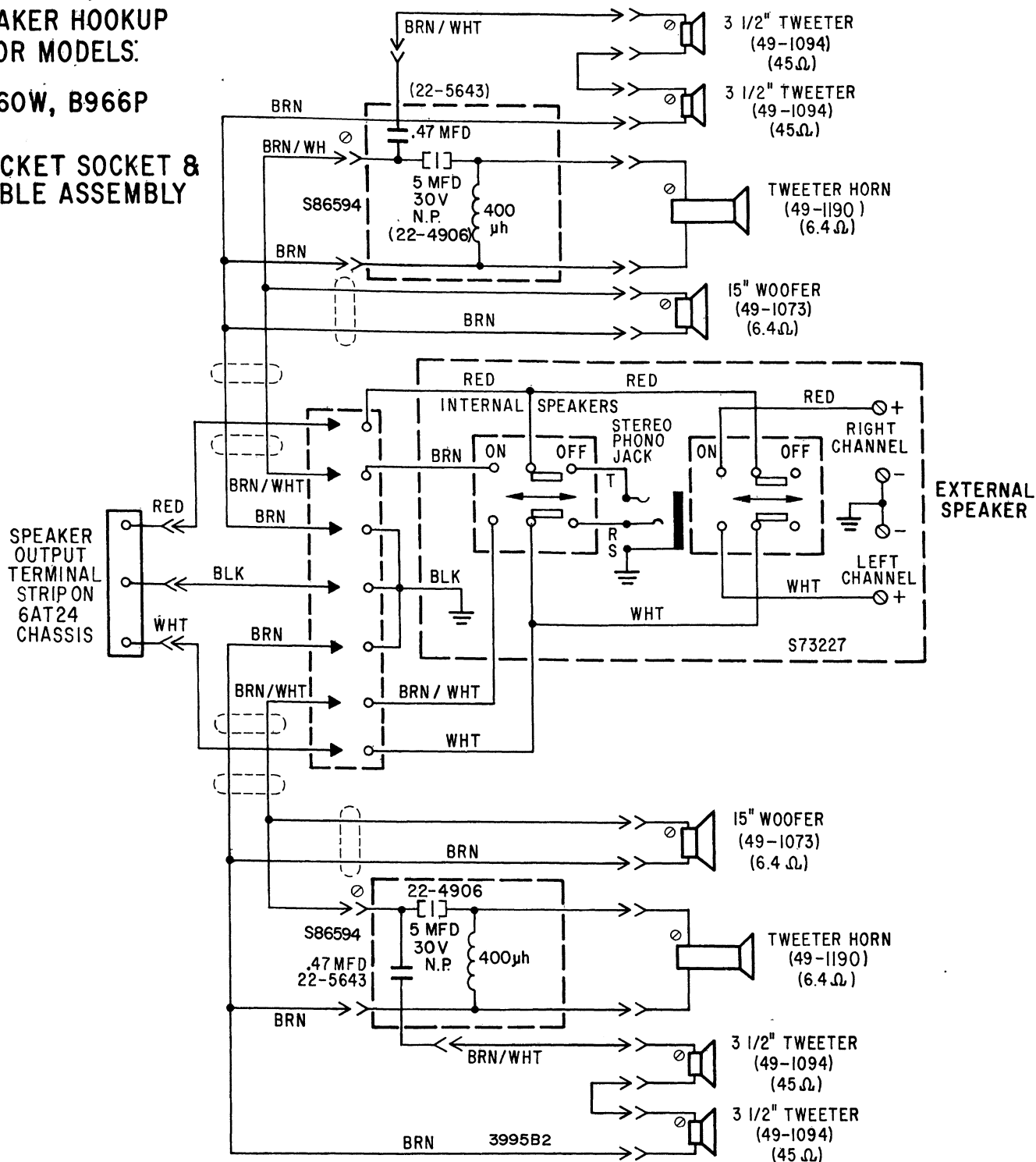


SPEAKER WIRING SCHEMATICS

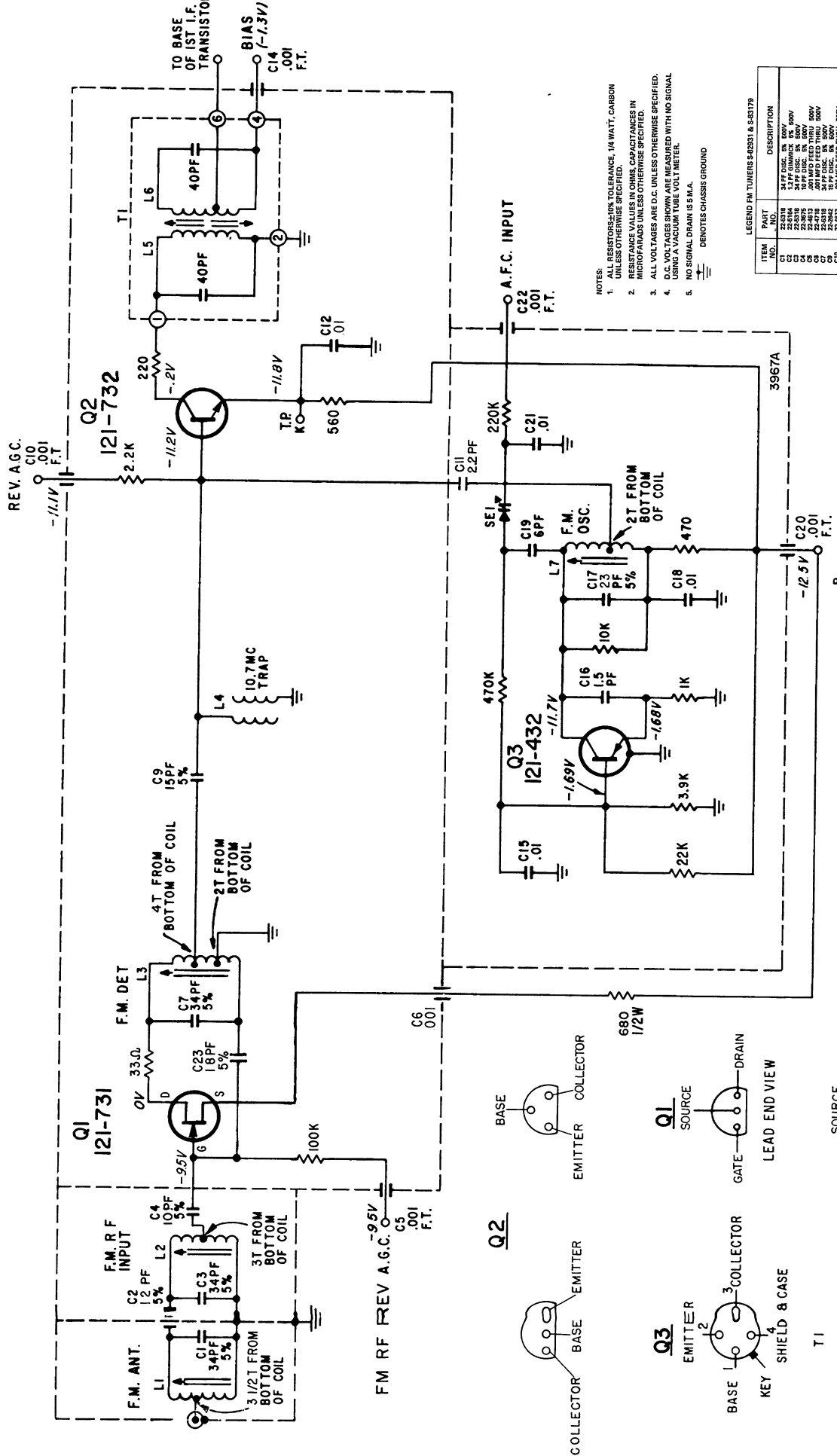
SPEAKER HOOKUP FOR MODELS:

B960W, B966P

BRACKET SOCKET & CABLE ASSEMBLY



SPEAKER WIRING SCHEMATICS

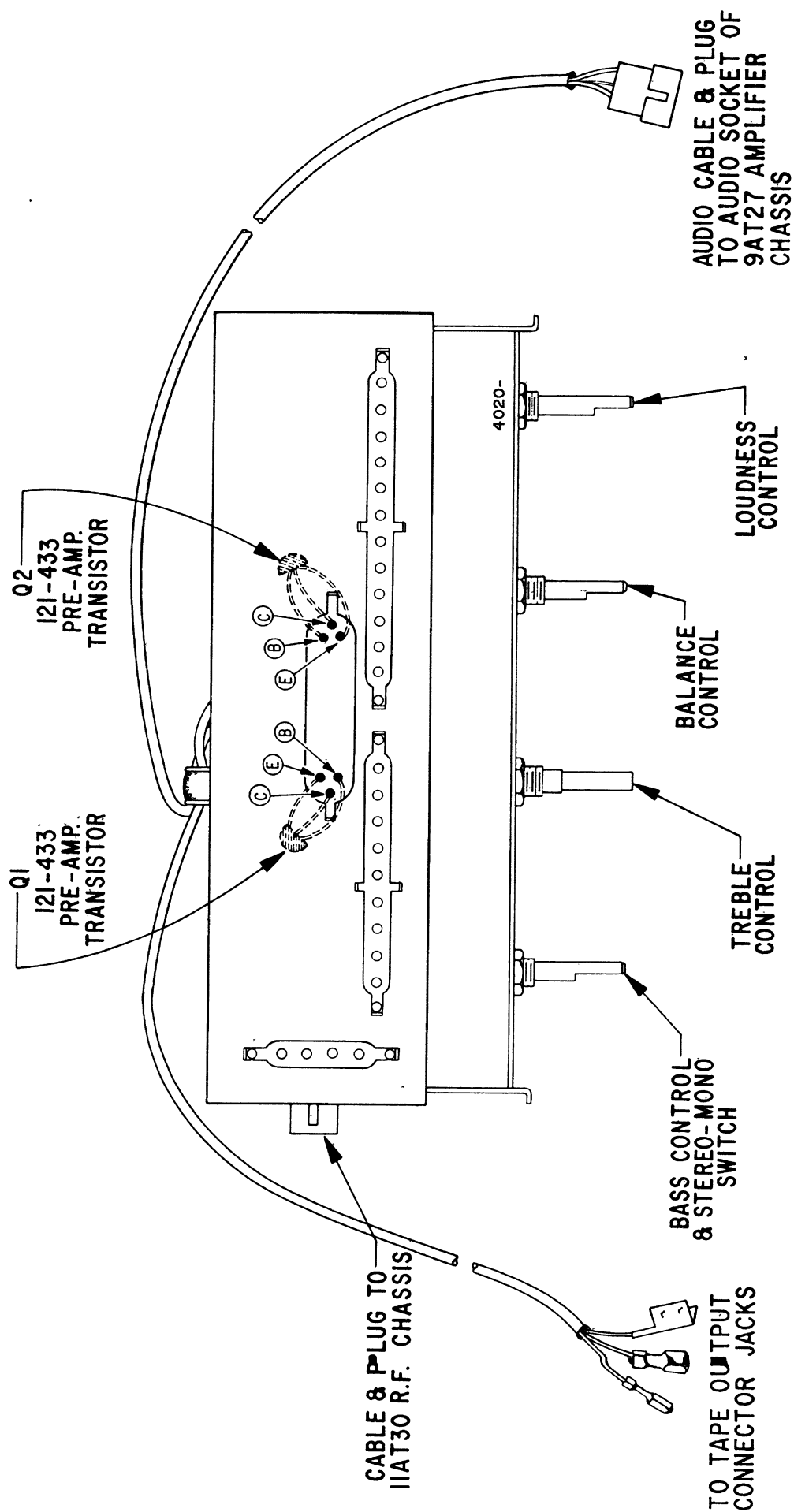


- NOTES:
1. ALL RESISTORS: TOLERANCE, 14 WATT, CARBON UNLESS OTHERWISE SPECIFIED.
 2. RESISTANCE VALUES IN OHMS, CAPACITANCES IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
 3. ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED.
 4. D.C. VOLTAGES SHOWN ARE MEASURED WITH NO SIGNAL USING A VACUUM TUBE VOLT METER.
 5. NO SIGNAL DRAIN IS 5 M.A.

⏏ DENOTES CHASSIS GROUND

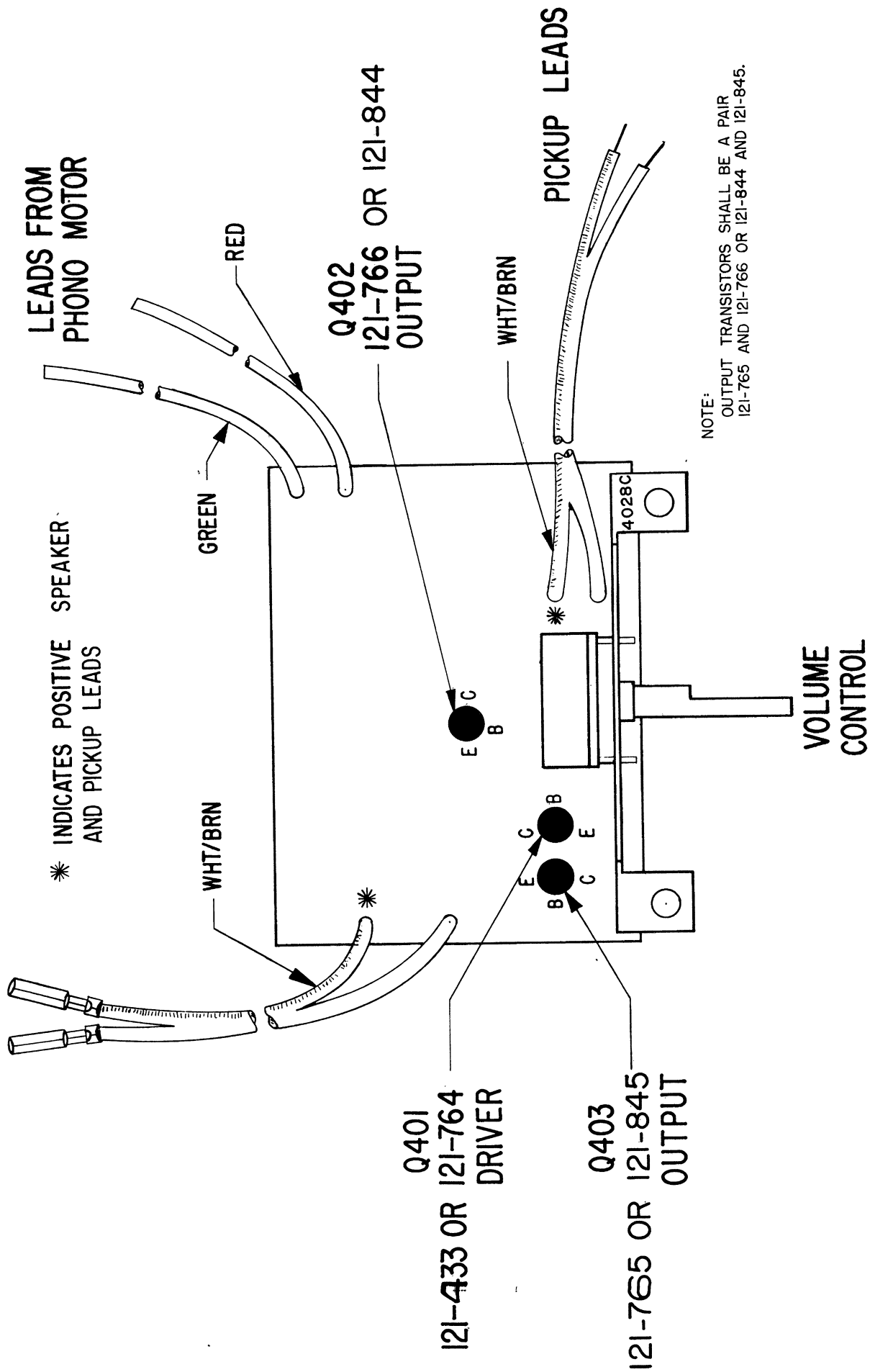
ITEM NO.	PART NO.	DESCRIPTION
C1	22-3874	1.0 PF DISC. 5% 500V
C2	22-3874	1.0 PF DISC. 5% 500V
C3	22-3874	1.0 PF DISC. 5% 500V
C4	22-3874	1.0 PF DISC. 5% 500V
C5	22-3874	1.0 PF DISC. 5% 500V
C6	22-3874	1.0 PF DISC. 5% 500V
C7	22-3874	1.0 PF DISC. 5% 500V
C8	22-3874	1.0 PF DISC. 5% 500V
C9	22-3874	1.0 PF DISC. 5% 500V
C10	22-3874	1.0 PF DISC. 5% 500V
C11	22-3874	1.0 PF DISC. 5% 500V
C12	22-3874	1.0 PF DISC. 5% 500V
C13	22-3874	1.0 PF DISC. 5% 500V
C14	22-3874	1.0 PF DISC. 5% 500V
C15	22-3874	1.0 PF DISC. 5% 500V
C16	22-3874	1.0 PF DISC. 5% 500V
C17	22-3874	1.0 PF DISC. 5% 500V
C18	22-3874	1.0 PF DISC. 5% 500V
C19	22-3874	1.0 PF DISC. 5% 500V
C20	22-3874	1.0 PF DISC. 5% 500V
C21	22-3874	1.0 PF DISC. 5% 500V
C22	22-3874	1.0 PF DISC. 5% 500V
L1	22-3874	1.0 PF DISC. 5% 500V
L2	22-3874	1.0 PF DISC. 5% 500V
L3	22-3874	1.0 PF DISC. 5% 500V
L4	22-3874	1.0 PF DISC. 5% 500V
L5	22-3874	1.0 PF DISC. 5% 500V
L6	22-3874	1.0 PF DISC. 5% 500V
T1	22-3874	1.0 PF DISC. 5% 500V
Q1	22-3874	1.0 PF DISC. 5% 500V
Q2	22-3874	1.0 PF DISC. 5% 500V
Q3	22-3874	1.0 PF DISC. 5% 500V

S-82931 AND S-83179-FM TUNER-SCHEMATIC

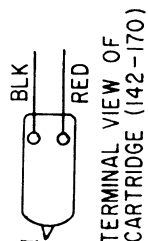


2AT30 — CHASSIS LAYOUT

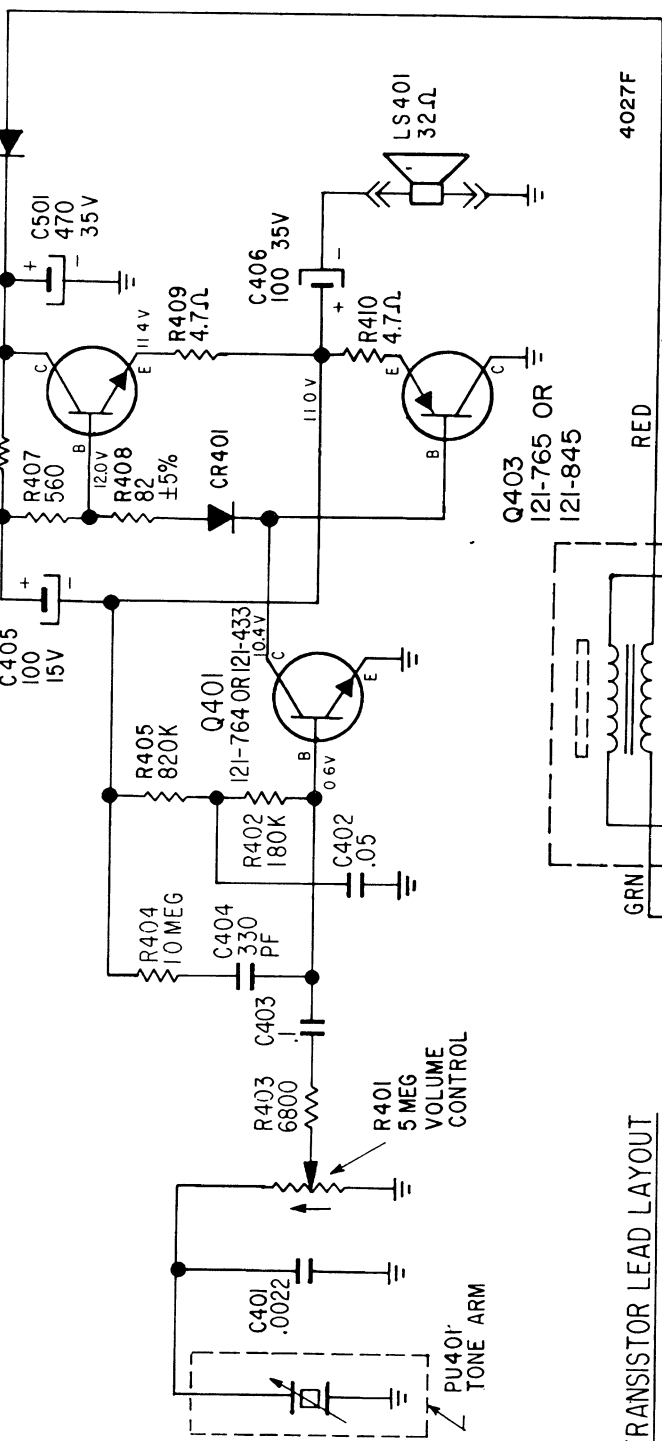
SPEAKER LEADS



7 & 3 0 MIL STYLUS

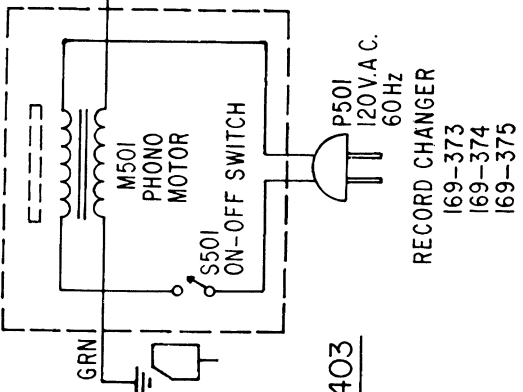
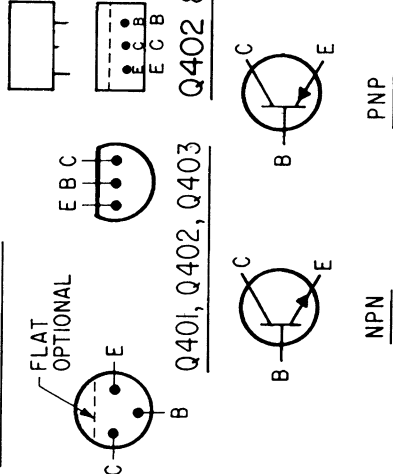


ITEM NO.	PART NO.	DESCRIPTION
C401	22-5501	2000 MFD 50VDC .50V
C402	22-5501	2000 MFD 50VDC .50V
C403	22-5501	2000 MFD 50VDC .50V
C404	22-5501	2000 MFD 50VDC .50V
C405	22-5501	2000 MFD 50VDC .50V
C406	22-5501	2000 MFD 50VDC .50V
C407	22-5501	2000 MFD 50VDC .50V
C408	22-5501	2000 MFD 50VDC .50V
C409	22-5501	2000 MFD 50VDC .50V
C410	22-5501	2000 MFD 50VDC .50V
C411	22-5501	2000 MFD 50VDC .50V
C412	22-5501	2000 MFD 50VDC .50V
C413	22-5501	2000 MFD 50VDC .50V
C414	22-5501	2000 MFD 50VDC .50V
C415	22-5501	2000 MFD 50VDC .50V
C416	22-5501	2000 MFD 50VDC .50V
C417	22-5501	2000 MFD 50VDC .50V
C418	22-5501	2000 MFD 50VDC .50V
C419	22-5501	2000 MFD 50VDC .50V
C420	22-5501	2000 MFD 50VDC .50V
C421	22-5501	2000 MFD 50VDC .50V
C422	22-5501	2000 MFD 50VDC .50V
C423	22-5501	2000 MFD 50VDC .50V
C424	22-5501	2000 MFD 50VDC .50V
C425	22-5501	2000 MFD 50VDC .50V
C426	22-5501	2000 MFD 50VDC .50V
C427	22-5501	2000 MFD 50VDC .50V
C428	22-5501	2000 MFD 50VDC .50V
C429	22-5501	2000 MFD 50VDC .50V
C430	22-5501	2000 MFD 50VDC .50V
C431	22-5501	2000 MFD 50VDC .50V
C432	22-5501	2000 MFD 50VDC .50V
C433	22-5501	2000 MFD 50VDC .50V
C434	22-5501	2000 MFD 50VDC .50V
C435	22-5501	2000 MFD 50VDC .50V
C436	22-5501	2000 MFD 50VDC .50V
C437	22-5501	2000 MFD 50VDC .50V
C438	22-5501	2000 MFD 50VDC .50V
C439	22-5501	2000 MFD 50VDC .50V
C440	22-5501	2000 MFD 50VDC .50V
C441	22-5501	2000 MFD 50VDC .50V
C442	22-5501	2000 MFD 50VDC .50V
C443	22-5501	2000 MFD 50VDC .50V
C444	22-5501	2000 MFD 50VDC .50V
C445	22-5501	2000 MFD 50VDC .50V
C446	22-5501	2000 MFD 50VDC .50V
C447	22-5501	2000 MFD 50VDC .50V
C448	22-5501	2000 MFD 50VDC .50V
C449	22-5501	2000 MFD 50VDC .50V
C450	22-5501	2000 MFD 50VDC .50V
C451	22-5501	2000 MFD 50VDC .50V
C452	22-5501	2000 MFD 50VDC .50V
C453	22-5501	2000 MFD 50VDC .50V
C454	22-5501	2000 MFD 50VDC .50V
C455	22-5501	2000 MFD 50VDC .50V
C456	22-5501	2000 MFD 50VDC .50V
C457	22-5501	2000 MFD 50VDC .50V
C458	22-5501	2000 MFD 50VDC .50V
C459	22-5501	2000 MFD 50VDC .50V
C460	22-5501	2000 MFD 50VDC .50V
C461	22-5501	2000 MFD 50VDC .50V
C462	22-5501	2000 MFD 50VDC .50V
C463	22-5501	2000 MFD 50VDC .50V
C464	22-5501	2000 MFD 50VDC .50V
C465	22-5501	2000 MFD 50VDC .50V
C466	22-5501	2000 MFD 50VDC .50V
C467	22-5501	2000 MFD 50VDC .50V
C468	22-5501	2000 MFD 50VDC .50V
C469	22-5501	2000 MFD 50VDC .50V
C470	22-5501	2000 MFD 50VDC .50V
C471	22-5501	2000 MFD 50VDC .50V
C472	22-5501	2000 MFD 50VDC .50V
C473	22-5501	2000 MFD 50VDC .50V
C474	22-5501	2000 MFD 50VDC .50V
C475	22-5501	2000 MFD 50VDC .50V
C476	22-5501	2000 MFD 50VDC .50V
C477	22-5501	2000 MFD 50VDC .50V
C478	22-5501	2000 MFD 50VDC .50V
C479	22-5501	2000 MFD 50VDC .50V
C480	22-5501	2000 MFD 50VDC .50V
C481	22-5501	2000 MFD 50VDC .50V
C482	22-5501	2000 MFD 50VDC .50V
C483	22-5501	2000 MFD 50VDC .50V
C484	22-5501	2000 MFD 50VDC .50V
C485	22-5501	2000 MFD 50VDC .50V
C486	22-5501	2000 MFD 50VDC .50V
C487	22-5501	2000 MFD 50VDC .50V
C488	22-5501	2000 MFD 50VDC .50V
C489	22-5501	2000 MFD 50VDC .50V
C490	22-5501	2000 MFD 50VDC .50V
C491	22-5501	2000 MFD 50VDC .50V
C492	22-5501	2000 MFD 50VDC .50V
C493	22-5501	2000 MFD 50VDC .50V
C494	22-5501	2000 MFD 50VDC .50V
C495	22-5501	2000 MFD 50VDC .50V
C496	22-5501	2000 MFD 50VDC .50V
C497	22-5501	2000 MFD 50VDC .50V
C498	22-5501	2000 MFD 50VDC .50V
C499	22-5501	2000 MFD 50VDC .50V
C500	22-5501	2000 MFD 50VDC .50V



- NOTES:
1. INDICATES CHASSIS GROUND.
 2. ARROW ON CONTROL INDICATES CLOCKWISE POSITION.
 3. ALL RESISTANCES IN OHMS. 1/2 WATT CARBON ±10%.
 4. ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED.
 5. D.C. VOLTAGES SHOWN ARE MEASURED FROM CHASSIS WITH NO SIGNAL USING A V.T. VAL OF 1 MEGOHM INPUT RESISTANCE. LINE VOLTAGE 120 V.A.C.
 6. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
 7. OUTPUT TRANSISTORS SHALL BE A PAIR 121-765 and 121-766 or 121-844 and 121-845.

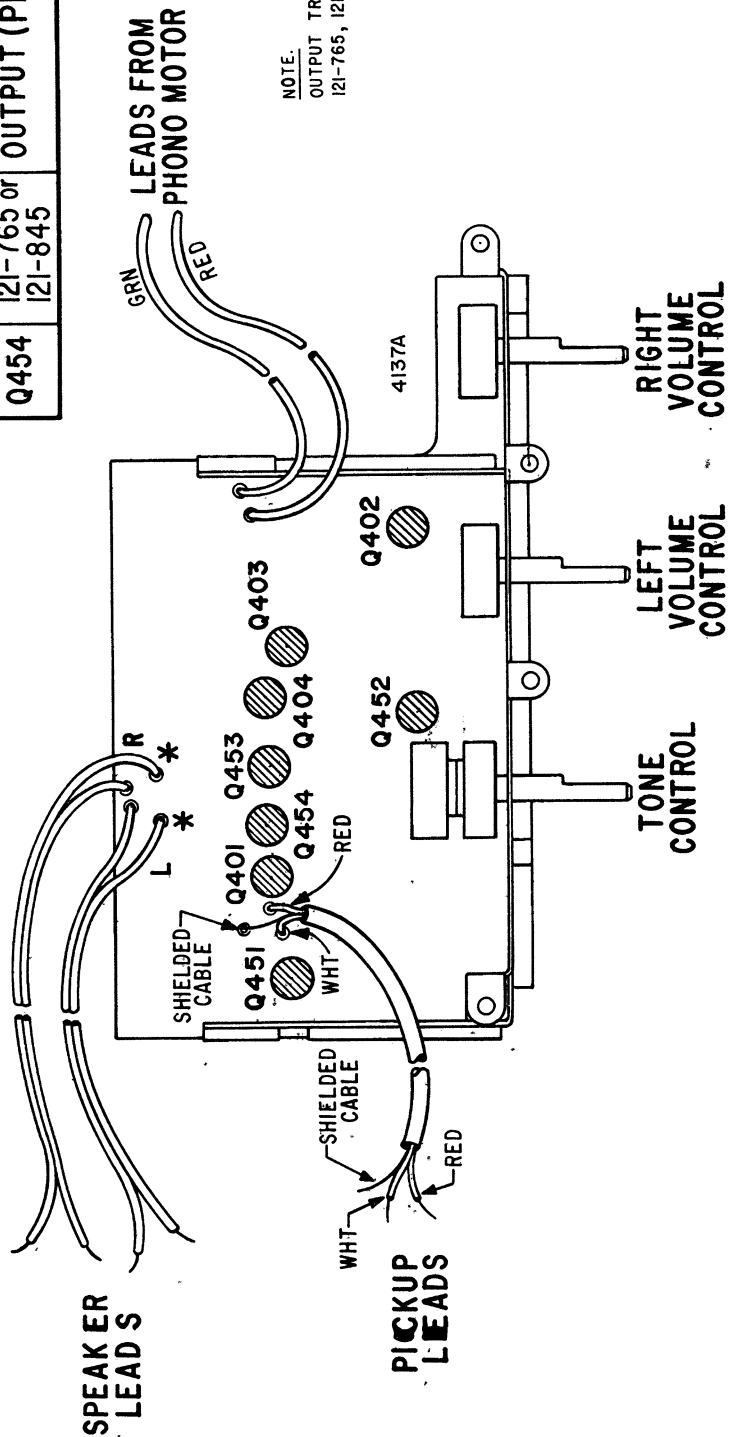
TRANSISTOR LEAD LAYOUT LEAD END VIEWS



3AT20 — SCHEMATIC

TRANSISTORS	
No.	PART No. DESCRIPTION
Q401	121-434 or 121-711 PRE-AMP.(NPN)
Q402	121-433 or 121-764 DRIVER (NPN)
Q451	121-434 or 121-711 PRE-AMP.(NPN)
Q452	121-433 or 121-764 DRIVER (NPN)
Q403	121-766 or 121-844 OUTPUT (NPN)
Q404	121-765 or 121-845 OUTPUT (PNP)
Q453	121-766 or 121-844 OUTPUT (NPN)
Q454	121-765 or 121-845 OUTPUT (PNP)

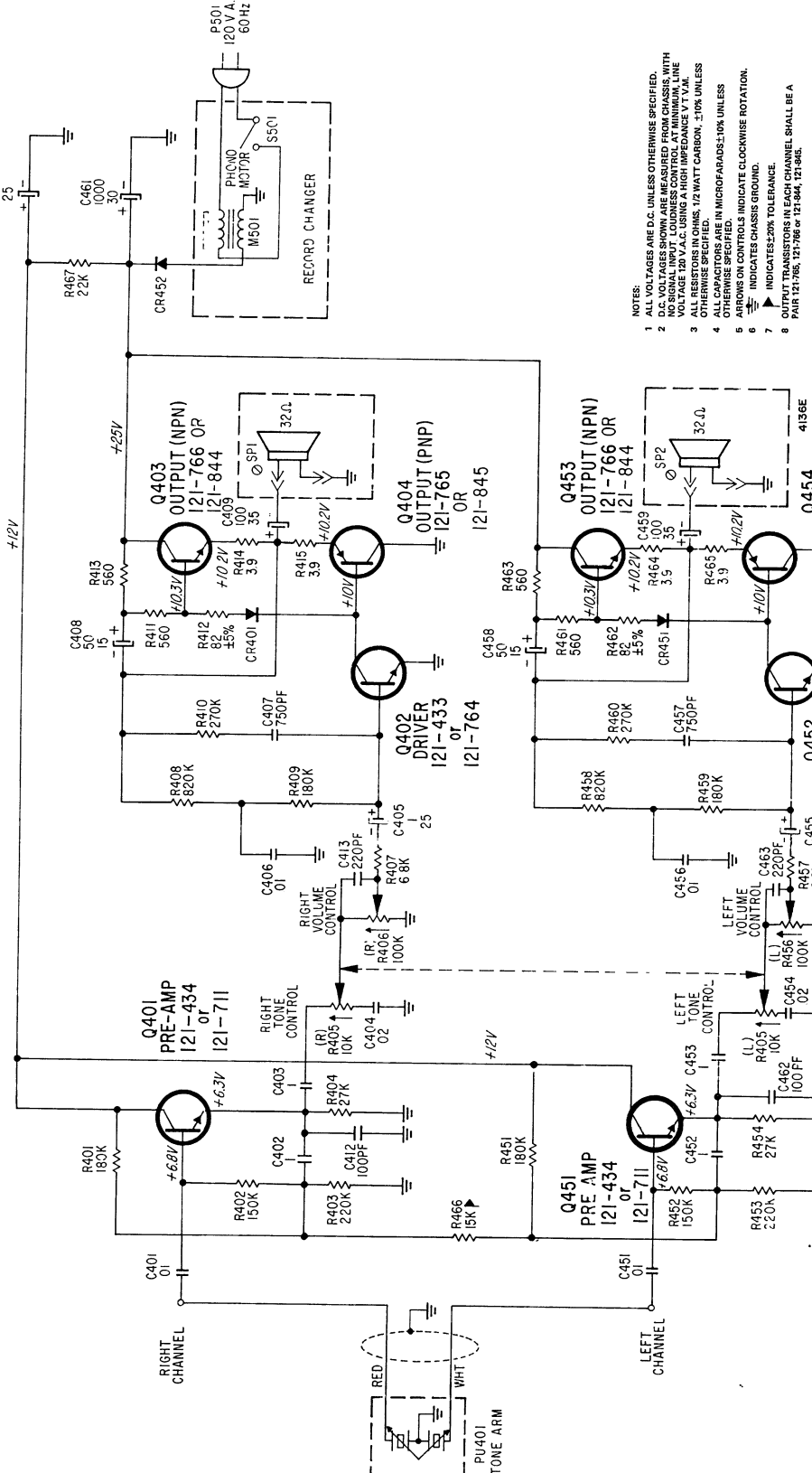
*INDICATES POSITIVE SPEAKER



NOTE.
OUTPUT TRANSISTORS IN EACH CHANNEL SHALL BE A PAIR
121-765, 121-766 OR 121-844, 121-845.

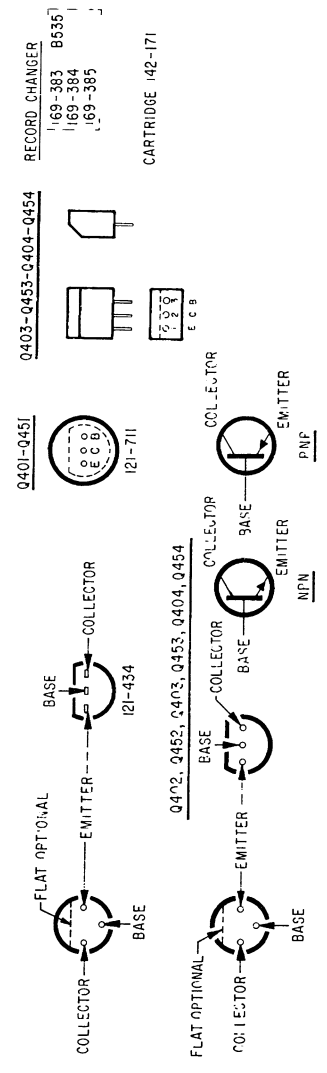
8BT20 — CHASSIS LAYOUT

ITEM NO.	PART NO.	DESCRIPTION
Q401	22-3283	1MFD DISC. 50V 30% - 25V
Q402	22-3283	1MFD DISC. 50V 30% - 25V
Q403	22-3284	1MFD DISC. 100V 50% - 25V
Q404	22-3284	1MFD DISC. 100V 50% - 25V
Q405	22-3284	1MFD DISC. 100V 50% - 25V
Q406	22-3283	1MFD DISC. 50V 30% - 25V
Q407	22-3283	1MFD DISC. 50V 30% - 25V
Q408	22-3283	1MFD DISC. 50V 30% - 25V
Q409	22-3283	1MFD DISC. 50V 30% - 25V
Q410	22-3283	1MFD DISC. 50V 30% - 25V
Q411	22-3283	1MFD DISC. 50V 30% - 25V
Q412	22-3283	1MFD DISC. 50V 30% - 25V
Q413	22-3283	1MFD DISC. 50V 30% - 25V
Q414	22-3283	1MFD DISC. 50V 30% - 25V
Q415	22-3283	1MFD DISC. 50V 30% - 25V
Q416	22-3283	1MFD DISC. 50V 30% - 25V
Q417	22-3283	1MFD DISC. 50V 30% - 25V
Q418	22-3283	1MFD DISC. 50V 30% - 25V
Q419	22-3283	1MFD DISC. 50V 30% - 25V
Q420	22-3283	1MFD DISC. 50V 30% - 25V
Q421	22-3283	1MFD DISC. 50V 30% - 25V
Q422	22-3283	1MFD DISC. 50V 30% - 25V
Q423	22-3283	1MFD DISC. 50V 30% - 25V
Q424	22-3283	1MFD DISC. 50V 30% - 25V
Q425	22-3283	1MFD DISC. 50V 30% - 25V
Q426	22-3283	1MFD DISC. 50V 30% - 25V
Q427	22-3283	1MFD DISC. 50V 30% - 25V
Q428	22-3283	1MFD DISC. 50V 30% - 25V
Q429	22-3283	1MFD DISC. 50V 30% - 25V
Q430	22-3283	1MFD DISC. 50V 30% - 25V
Q431	22-3283	1MFD DISC. 50V 30% - 25V
Q432	22-3283	1MFD DISC. 50V 30% - 25V
Q433	22-3283	1MFD DISC. 50V 30% - 25V
Q434	22-3283	1MFD DISC. 50V 30% - 25V
Q435	22-3283	1MFD DISC. 50V 30% - 25V
Q436	22-3283	1MFD DISC. 50V 30% - 25V
Q437	22-3283	1MFD DISC. 50V 30% - 25V
Q438	22-3283	1MFD DISC. 50V 30% - 25V
Q439	22-3283	1MFD DISC. 50V 30% - 25V
Q440	22-3283	1MFD DISC. 50V 30% - 25V
Q441	22-3283	1MFD DISC. 50V 30% - 25V
Q442	22-3283	1MFD DISC. 50V 30% - 25V
Q443	22-3283	1MFD DISC. 50V 30% - 25V
Q444	22-3283	1MFD DISC. 50V 30% - 25V
Q445	22-3283	1MFD DISC. 50V 30% - 25V
Q446	22-3283	1MFD DISC. 50V 30% - 25V
Q447	22-3283	1MFD DISC. 50V 30% - 25V
Q448	22-3283	1MFD DISC. 50V 30% - 25V
Q449	22-3283	1MFD DISC. 50V 30% - 25V
Q450	22-3283	1MFD DISC. 50V 30% - 25V
Q451	22-3283	1MFD DISC. 50V 30% - 25V
Q452	22-3283	1MFD DISC. 50V 30% - 25V
Q453	22-3283	1MFD DISC. 50V 30% - 25V
Q454	22-3283	1MFD DISC. 50V 30% - 25V
Q455	22-3283	1MFD DISC. 50V 30% - 25V
Q456	22-3283	1MFD DISC. 50V 30% - 25V
Q457	22-3283	1MFD DISC. 50V 30% - 25V
Q458	22-3283	1MFD DISC. 50V 30% - 25V
Q459	22-3283	1MFD DISC. 50V 30% - 25V
Q460	22-3283	1MFD DISC. 50V 30% - 25V
Q461	22-3283	1MFD DISC. 50V 30% - 25V
Q462	22-3283	1MFD DISC. 50V 30% - 25V
Q463	22-3283	1MFD DISC. 50V 30% - 25V
Q464	22-3283	1MFD DISC. 50V 30% - 25V
Q465	22-3283	1MFD DISC. 50V 30% - 25V
Q466	22-3283	1MFD DISC. 50V 30% - 25V
Q467	22-3283	1MFD DISC. 50V 30% - 25V
Q468	22-3283	1MFD DISC. 50V 30% - 25V
Q469	22-3283	1MFD DISC. 50V 30% - 25V
Q470	22-3283	1MFD DISC. 50V 30% - 25V
Q471	22-3283	1MFD DISC. 50V 30% - 25V
Q472	22-3283	1MFD DISC. 50V 30% - 25V
Q473	22-3283	1MFD DISC. 50V 30% - 25V
Q474	22-3283	1MFD DISC. 50V 30% - 25V
Q475	22-3283	1MFD DISC. 50V 30% - 25V
Q476	22-3283	1MFD DISC. 50V 30% - 25V
Q477	22-3283	1MFD DISC. 50V 30% - 25V
Q478	22-3283	1MFD DISC. 50V 30% - 25V
Q479	22-3283	1MFD DISC. 50V 30% - 25V
Q480	22-3283	1MFD DISC. 50V 30% - 25V
Q481	22-3283	1MFD DISC. 50V 30% - 25V
Q482	22-3283	1MFD DISC. 50V 30% - 25V
Q483	22-3283	1MFD DISC. 50V 30% - 25V
Q484	22-3283	1MFD DISC. 50V 30% - 25V
Q485	22-3283	1MFD DISC. 50V 30% - 25V
Q486	22-3283	1MFD DISC. 50V 30% - 25V
Q487	22-3283	1MFD DISC. 50V 30% - 25V
Q488	22-3283	1MFD DISC. 50V 30% - 25V
Q489	22-3283	1MFD DISC. 50V 30% - 25V
Q490	22-3283	1MFD DISC. 50V 30% - 25V
Q491	22-3283	1MFD DISC. 50V 30% - 25V
Q492	22-3283	1MFD DISC. 50V 30% - 25V
Q493	22-3283	1MFD DISC. 50V 30% - 25V
Q494	22-3283	1MFD DISC. 50V 30% - 25V
Q495	22-3283	1MFD DISC. 50V 30% - 25V
Q496	22-3283	1MFD DISC. 50V 30% - 25V
Q497	22-3283	1MFD DISC. 50V 30% - 25V
Q498	22-3283	1MFD DISC. 50V 30% - 25V
Q499	22-3283	1MFD DISC. 50V 30% - 25V
Q500	22-3283	1MFD DISC. 50V 30% - 25V



- NOTES:
1. ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED.
 2. D.C. VOLTAGE MEASUREMENTS SHOULD BE MADE WITH THE SIGNAL INPUT LOUDNESS CONTROL AT MINIMUM.
 3. NO SIGNAL INPUT LOUDNESS CONTROL AT MINIMUM.
 4. ALL TRANSISTORS IN OHMS. 1/2 WATT CARBON. $\pm 10\%$ UNLESS OTHERWISE SPECIFIED.
 5. ALL CAPACITORS ARE IN MICROFARADS. $\pm 10\%$ UNLESS OTHERWISE SPECIFIED.
 6. ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION.
 7. ∇ INDICATES 20% TOLERANCE.
 8. PAIR 121-765, 121-766 or 121-844, 121-845.

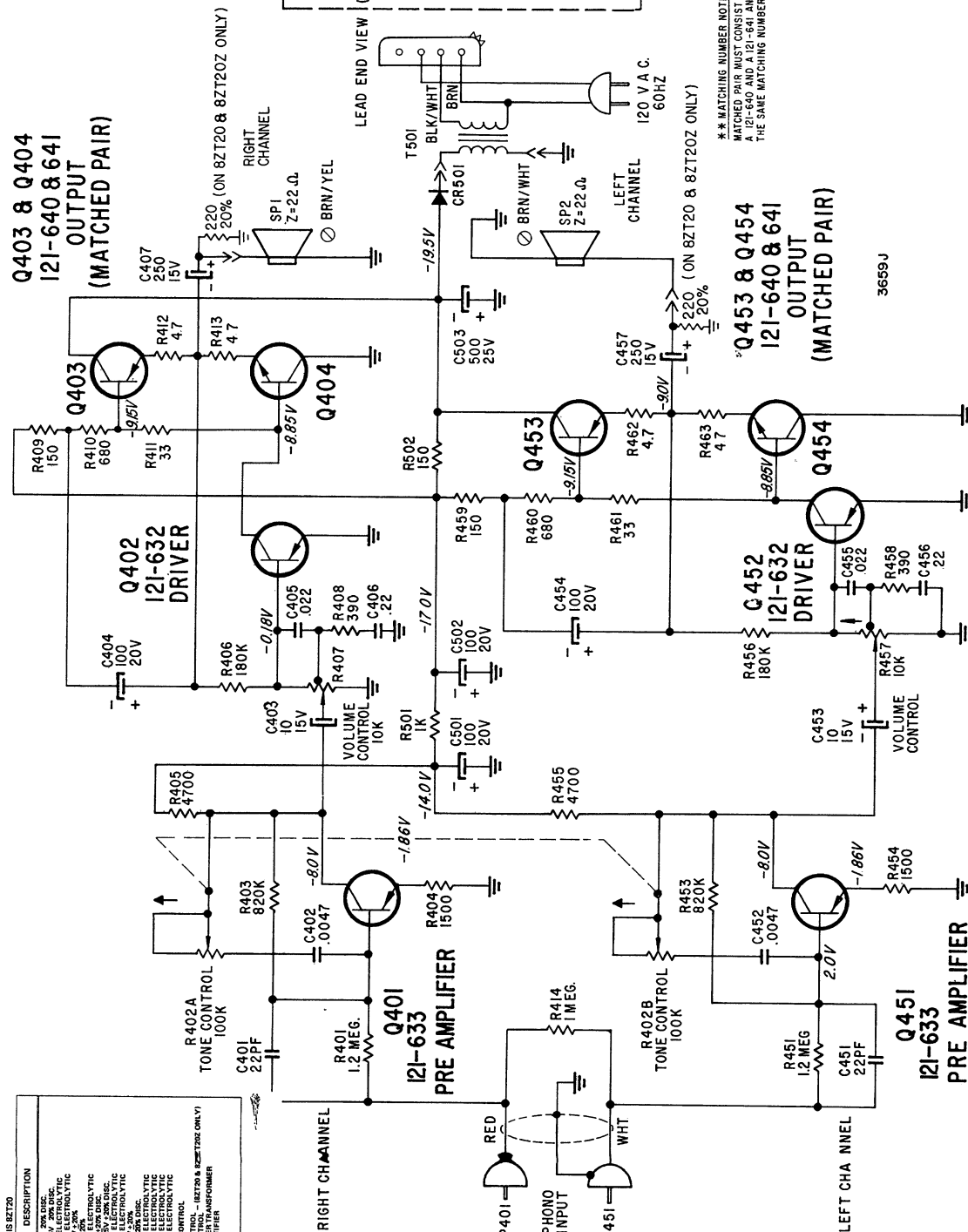
TRANSISTOR LEAD LAYOUT - LEAD END VIEWS



8BT20 - SCHEMATIC



LEGEND CHASSIS K270		
ITEM NO.	PART NO.	DESCRIPTION
C002	22-3440	250 W 500 V 20% DISC.
C003	22-3441	250 W 500 V 20% DISC.
C004	22-3448	10 MF 50 V ELECTROLYTIC
C005	22-3449	10 MF 50 V ELECTROLYTIC
C006	22-3450	0.022 MF 50V 50%
C007	22-3451	0.022 MF 50V 50%
C008	22-3452	0.022 MF 50V 50%
C009	22-3453	0.022 MF 50V 50%
C010	22-3454	0.022 MF 50V 50%
C011	22-3507	22 P F 50V 20% DISC.
C012	22-3508	22 P F 50V 20% DISC.
C013	22-3509	22 P F 50V 20% DISC.
C014	22-3510	22 P F 50V 20% DISC.
C015	22-3511	22 P F 50V 20% DISC.
C016	22-3512	22 P F 50V 20% DISC.
C017	22-3513	22 P F 50V 20% DISC.
C018	22-3514	22 P F 50V 20% DISC.
C019	22-3515	22 P F 50V 20% DISC.
C020	22-3516	22 P F 50V 20% DISC.
C021	22-3517	22 P F 50V 20% DISC.
C022	22-3518	22 P F 50V 20% DISC.
C023	22-3519	22 P F 50V 20% DISC.
C024	22-3520	22 P F 50V 20% DISC.
C025	22-3521	22 P F 50V 20% DISC.
C026	22-3522	22 P F 50V 20% DISC.
C027	22-3523	22 P F 50V 20% DISC.
C028	22-3524	22 P F 50V 20% DISC.
C029	22-3525	22 P F 50V 20% DISC.
C030	22-3526	22 P F 50V 20% DISC.
C031	22-3527	22 P F 50V 20% DISC.
C032	22-3528	22 P F 50V 20% DISC.
C033	22-3529	22 P F 50V 20% DISC.
C034	22-3530	22 P F 50V 20% DISC.
C035	22-3531	22 P F 50V 20% DISC.
C036	22-3532	22 P F 50V 20% DISC.
C037	22-3533	22 P F 50V 20% DISC.
C038	22-3534	22 P F 50V 20% DISC.
C039	22-3535	22 P F 50V 20% DISC.
C040	22-3536	22 P F 50V 20% DISC.
C041	22-3537	22 P F 50V 20% DISC.
C042	22-3538	22 P F 50V 20% DISC.
C043	22-3539	22 P F 50V 20% DISC.
C044	22-3540	22 P F 50V 20% DISC.
C045	22-3541	22 P F 50V 20% DISC.
C046	22-3542	22 P F 50V 20% DISC.
C047	22-3543	22 P F 50V 20% DISC.
C048	22-3544	22 P F 50V 20% DISC.
C049	22-3545	22 P F 50V 20% DISC.
C050	22-3546	22 P F 50V 20% DISC.
C051	22-3547	22 P F 50V 20% DISC.
C052	22-3548	22 P F 50V 20% DISC.
C053	22-3549	22 P F 50V 20% DISC.
C054	22-3550	22 P F 50V 20% DISC.
C055	22-3551	22 P F 50V 20% DISC.
C056	22-3552	22 P F 50V 20% DISC.
C057	22-3553	22 P F 50V 20% DISC.
C058	22-3554	22 P F 50V 20% DISC.
C059	22-3555	22 P F 50V 20% DISC.
C060	22-3556	22 P F 50V 20% DISC.
C061	22-3557	22 P F 50V 20% DISC.
C062	22-3558	22 P F 50V 20% DISC.
C063	22-3559	22 P F 50V 20% DISC.
C064	22-3560	22 P F 50V 20% DISC.
C065	22-3561	22 P F 50V 20% DISC.
C066	22-3562	22 P F 50V 20% DISC.
C067	22-3563	22 P F 50V 20% DISC.
C068	22-3564	22 P F 50V 20% DISC.
C069	22-3565	22 P F 50V 20% DISC.
C070	22-3566	22 P F 50V 20% DISC.
C071	22-3567	22 P F 50V 20% DISC.
C072	22-3568	22 P F 50V 20% DISC.
C073	22-3569	22 P F 50V 20% DISC.
C074	22-3570	22 P F 50V 20% DISC.
C075	22-3571	22 P F 50V 20% DISC.
C076	22-3572	22 P F 50V 20% DISC.
C077	22-3573	22 P F 50V 20% DISC.
C078	22-3574	22 P F 50V 20% DISC.
C079	22-3575	22 P F 50V 20% DISC.
C080	22-3576	22 P F 50V 20% DISC.
C081	22-3577	22 P F 50V 20% DISC.
C082	22-3578	22 P F 50V 20% DISC.
C083	22-3579	22 P F 50V 20% DISC.
C084	22-3580	22 P F 50V 20% DISC.
C085	22-3581	22 P F 50V 20% DISC.
C086	22-3582	22 P F 50V 20% DISC.
C087	22-3583	22 P F 50V 20% DISC.
C088	22-3584	22 P F 50V 20% DISC.
C089	22-3585	22 P F 50V 20% DISC.
C090	22-3586	22 P F 50V 20% DISC.
C091	22-3587	22 P F 50V 20% DISC.
C092	22-3588	22 P F 50V 20% DISC.
C093	22-3589	22 P F 50V 20% DISC.
C094	22-3590	22 P F 50V 20% DISC.
C095	22-3591	22 P F 50V 20% DISC.
C096	22-3592	22 P F 50V 20% DISC.
C097	22-3593	22 P F 50V 20% DISC.
C098	22-3594	22 P F 50V 20% DISC.
C099	22-3595	22 P F 50V 20% DISC.
C100	22-3596	22 P F 50V 20% DISC.
C101	22-3597	22 P F 50V 20% DISC.
C102	22-3598	22 P F 50V 20% DISC.
C103	22-3599	22 P F 50V 20% DISC.
C104	22-3600	22 P F 50V 20% DISC.
C105	22-3601	22 P F 50V 20% DISC.
C106	22-3602	22 P F 50V 20% DISC.
C107	22-3603	22 P F 50V 20% DISC.
C108	22-3604	22 P F 50V 20% DISC.
C109	22-3605	22 P F 50V 20% DISC.
C110	22-3606	22 P F 50V 20% DISC.
C111	22-3607	22 P F 50V 20% DISC.
C112	22-3608	22 P F 50V 20% DISC.
C113	22-3609	22 P F 50V 20% DISC.
C114	22-3610	22 P F 50V 20% DISC.
C115	22-3611	22 P F 50V 20% DISC.
C116	22-3612	22 P F 50V 20% DISC.
C117	22-3613	22 P F 50V 20% DISC.
C118	22-3614	22 P F 50V 20% DISC.
C119	22-3615	22 P F 50V 20% DISC.
C120	22-3616	22 P F 50V 20% DISC.
C121	22-3617	22 P F 50V 20% DISC.
C122	22-3618	22 P F 50V 20% DISC.
C123	22-3619	22 P F 50V 20% DISC.
C124	22-3620	22 P F 50V 20% DISC.
C125	22-3621	22 P F 50V 20% DISC.
C126	22-3622	22 P F 50V 20% DISC.
C127	22-3623	22 P F 50V 20% DISC.
C128	22-3624	22 P F 50V 20% DISC.
C129	22-3625	22 P F 50V 20% DISC.
C130	22-3626	22 P F 50V 20% DISC.
C131	22-3627	22 P F 50V 20% DISC.
C132	22-3628	22 P F 50V 20% DISC.
C133	22-3629	22 P F 50V 20% DISC.
C134	22-3630	22 P F 50V 20% DISC.
C135	22-3631	22 P F 50V 20% DISC.
C136	22-3632	22 P F 50V 20% DISC.
C137	22-3633	22 P F 50V 20% DISC.
C138	22-3634	22 P F 50V 20% DISC.
C139	22-3635	22 P F 50V 20% DISC.
C140	22-3636	22 P F 50V 20% DISC.
C141	22-3637	22 P F 50V 20% DISC.
C142	22-3638	22 P F 50V 20% DISC.
C143	22-3639	22 P F 50V 20% DISC.
C144	22-3640	22 P F 50V 20% DISC.
C145	22-3641	22 P F 50V 20% DISC.
C146	22-3642	22 P F 50V 20% DISC.
C147	22-3643	22 P F 50V 20% DISC.
C148	22-3644	22 P F 50V 20% DISC.
C149	22-3645	22 P F 50V 20% DISC.
C150	22-3646	22 P F 50V 20% DISC.
C151	22-3647	22 P F 50V 20% DISC.
C152	22-3648	22 P F 50V 20% DISC.
C153	22-3649	22 P F 50V 20% DISC.
C154	22-3650	22 P F 50V 20% DISC.
C155	22-3651	22 P F 50V 20% DISC.
C156	22-3652	22 P F 50V 20% DISC.
C157	22-3653	22 P F 50V 20% DISC.
C158	22-3654	22 P F 50V 20% DISC.
C159	22-3655	22 P F 50V 20% DISC.
C160	22-3656	22 P F 50V 20% DISC.
C161	22-3657	22 P F 50V 20% DISC.
C162	22-3658	22 P F 50V 20% DISC.
C163	22-3659	22 P F 50V 20% DISC.
C164	22-3660	22 P F 50V 20% DISC.
C165	22-3661	22 P F 50V 20% DISC.
C166	22-3662	22 P F 50V 20% DISC.
C167	22-3663	22 P F 50V 20% DISC.
C168	22-3664	22 P F 50V 20% DISC.
C169	22-3665	22 P F 50V 20% DISC.
C170	22-3666	22 P F 50V 20% DISC.
C171	22-3667	22 P F 50V 20% DISC.
C172	22-3668	22 P F 50V 20% DISC.
C173	22-3669	22 P F 50V 20% DISC.
C174	22-3670	22 P F 50V 20% DISC.
C175	22-3671	22 P F 50V 20% DISC.
C176	22-3672	22 P F 50V 20% DISC.
C177	22-3673	22 P F 50V 20% DISC.
C178	22-3674	22 P F 50V 20% DISC.
C179	22-3675	22 P F 50V 20% DISC.
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C181	22-3677	22 P F 50V 20% DISC.
C182	22-3678	22 P F 50V 20% DISC.
C183	22-3679	22 P F 50V 20% DISC.
C184	22-3680	22 P F 50V 20% DISC.
C185	22-3681	22 P F 50V 20% DISC.
C186	22-3682	22 P F 50V 20% DISC.
C187	22-3683	22 P F 50V 20% DISC.
C188	22-3684	22 P F 50V 20% DISC.
C189	22-3685	22 P F 50V 20% DISC.
C190	22-3686	22 P F 50V 20% DISC.
C191	22-3687	22 P F 50V 20% DISC.
C192	22-3688	22 P F 50V 20% DISC.
C193	22-3689	22 P F 50V 20% DISC.
C194	22-3690	22 P F 50V 20% DISC.
C195	22-3691	22 P F 50V 20% DISC.
C196	22-3692	22 P F 50V 20% DISC.
C197	22-3693	22 P F 50V 20% DISC.
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C199	22-3695	22 P F 50V 20% DISC.
C200	22-3696	22 P F 50V 20% DISC.
C201	22-3697	22 P F 50V 20% DISC.
C202	22-3698	22 P F 50V 20% DISC.
C203	22-3699	22 P F 50V 20% DISC.
C204	22-3700	22 P F 50V 20% DISC.
C205	22-3701	22 P F 50V 20% DISC.
C206	22-3702	22 P F 50V 20% DISC.
C207	22-3703	22 P F 50V 20% DISC.
C208	22-3704	22 P F 50V 20% DISC.
C209	22-3705	22 P F 50V 20% DISC.
C210	22-3706	22 P F 50V 20% DISC.
C211	22-3707	22 P F 50V 20% DISC.
C212	22-3708	22 P F 50V 20% DISC.
C213	22-3709	22 P F 50V 20% DISC.
C214	22-3710	22 P F 50V 20% DISC.
C215	22-3711	22 P F 50V 20% DISC.
C216	22-3712	22 P F 50V 20% DISC.
C217	22-3713	22 P F 50V 20% DISC.
C218	22-3714	22 P F 50V 20% DISC.
C219	22-3715	22 P F 50V 20% DISC.
C220	22-3716	22 P F 50V 20% DISC.
C221	22-3717	22 P F 50V 20% DISC.
C222	22-3718	22 P F 50V 20% DISC.
C223	22-3719	22 P F 50V 20% DISC.
C224	22-3720	22 P F 50V 20% DISC.
C225	22-3721	22 P F 50V 20% DISC.
C226	22-3722	22 P F 50V 20% DISC.
C227	22-3723	22 P F 50V 20% DISC.
C228	22-3724	22 P F 50V 20% DISC.
C229	22-3725	22 P F 50V 20% DISC.
C230	22-3726	22 P F 50V 20% DISC.
C231	22-3727	22 P F 50V 20% DISC.
C232	22-3728	22 P F 50V 20% DISC.
C233	22-3729	22 P F 50V 20% DISC.
C234	22-3730	22 P F 50V 20% DISC.
C235	22-3731	22 P F 50V 20% DISC.
C236	22-3732	22 P F 50V 20% DISC.
C237	22-3733	22 P F 50V 20% DISC.
C238	22-3734	22 P F 50V 20% DISC.
C239	22-3735	22 P F 50V 20% DISC.
C240	22-3736	22 P F 50V 20% DISC.
C241	22-3737	22 P F 50V 20% DISC.
C242	22-3738	22 P F 50V 20% DISC.
C243	22-3739	22 P F 50V 20% DISC.
C244	22-3740	22 P F 50V 20% DISC.
C245	22-3741	22 P F 50V 20% DISC.
C246	22-3742	22 P F 50V 20% DISC.
C247	22-3743	22 P F 50V 20% DISC.
C248	22-3744	22 P F 50V 20% DISC.
C249	22-3745	22 P F 50V 20% DISC.
C250	22-3746	22 P F 50V 20% DISC.
C251	22-3747	22 P F 50V 20% DISC.
C252	22-3748	22 P F 50V 20% DISC.
C253	22-3749	22 P F 50V 20% DISC.
C254	22-3750	22 P F 50V 20% DISC.
C255	22-3751	22 P F 50V 20% DISC.
C256	22-3752	22 P F 50V 20% DISC.
C257	22-3753	22 P F 50V 20% DISC.
C258	22-3754	22 P F 50V 20% DISC.
C259	22-3755	22 P F 50V 20% DISC.
C260	22-3756	22 P F 50V 20% DISC.
C261	22-3757	22 P F 50V 20% DISC.
C262	22-3758	22 P F 50V 20% DISC.
C263	22-3759	22 P F 50V 20% DISC.
C264	22-3760	22 P F 50V 20% DISC.
C265	22-3761	22 P F 50V 20% DISC.
C266	22-3762	22 P F 50V 20% DISC.
C267	22-3763	22 P F 50V 20% DISC.
C268	22-3764	22 P F 50V 20% DISC.
C269	22-3765	22 P F 50V 20% DISC.
C270	22-3766	22 P F 50V 20% DISC.
C271	22-3767	22 P F 50V 20% DISC.
C272	22-3768	22 P F 50V 20% DISC.
C273	22-3769	22 P F 50V 20% DISC.
C274	22-3770	22 P F 50V 20% DISC.
C275	22-3771	22 P F 50V 20% DISC.
C276	22-3772	22 P F 50V 20% DISC.
C277	22-3773	22 P F 50V 20% DISC.
C278	22-3774	22 P F 50V 20% DISC.
C279	22-3775	22 P F 50V 20% DISC.
C280	22-3776	22 P F 50V 20% DISC.
C281	22-3777	22 P F 50V 20% DISC.
C282	22-3778	22 P F 50V 20% DISC.
C283	22-3779	22 P F 50V 20% DISC.
C284	22-3780	22 P F 50V 20% DISC.
C285	22-3781	22 P F 50V 20% DISC.
C286	22-3782	22 P F 50V 20% DISC.
C287	22-3783	22 P F 50V 20% DISC.
C288	22-3784	22 P F 50V 20% DISC.



TYPE NO.
121-640-2
121-641-2
121-640-3
121-641-3
121-640-4
121-641-4
121-640-5
121-641-5
121-640-6
121-641-6

NOTES:
ALL RESISTORS ARE 1/2W 10% UNLESS OTHERWISE SPECIFIED.
ALL CAPACITOR VALUES IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED AND ARE MEASURED FROM CHASSIS GROUND TO POINTS INDICATED WITH A V.T.V.AL.
DENOTES CHASSIS
DENOTES SPEAKER POLARITY
DENOTES MAXIMUM CLOCKWISE ROTATION

BOTTOM VIEW OF TRANSISTORS

Q401 THRU Q404 and Q451 THRU Q454

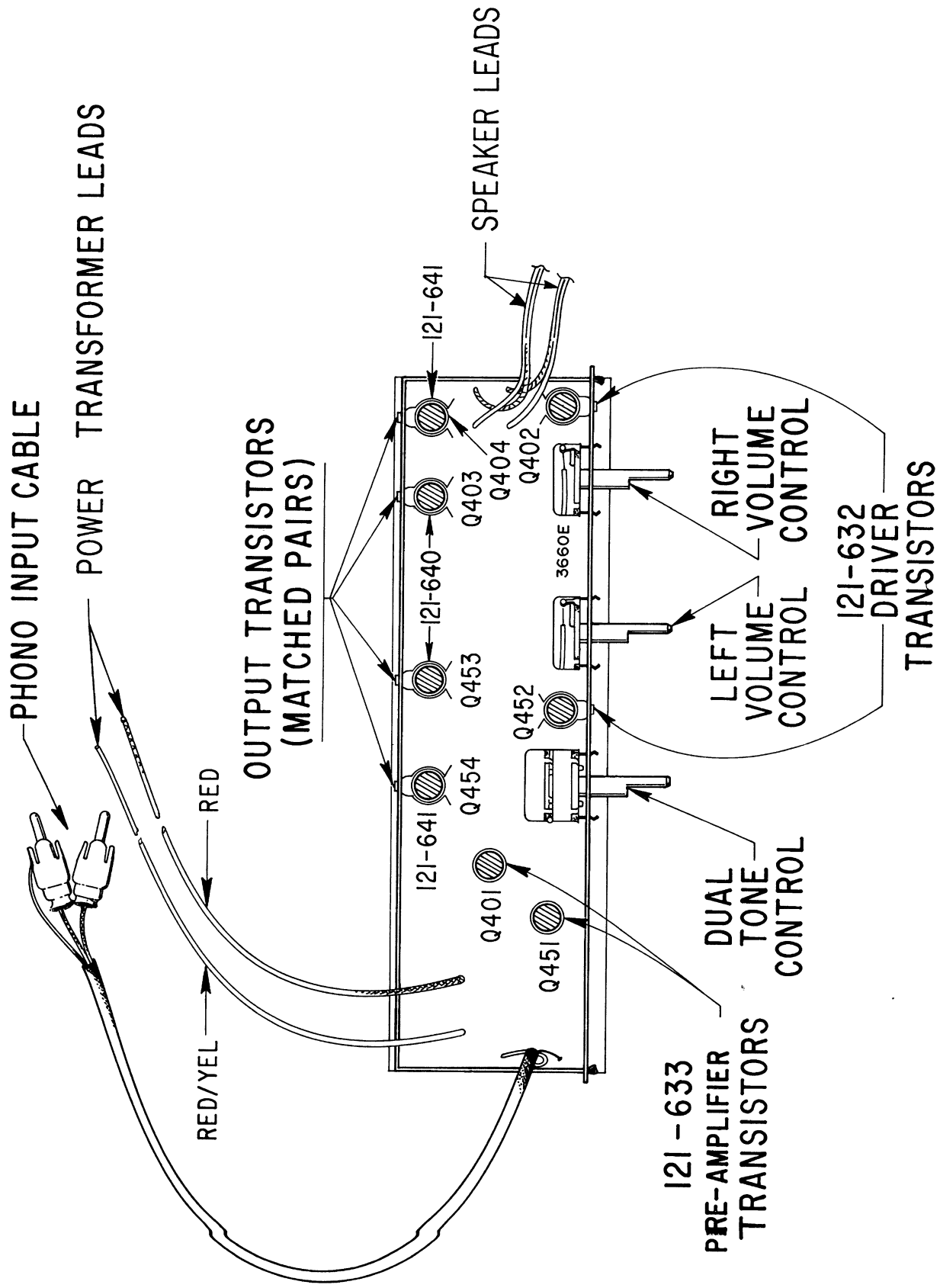


PNP TRANSISTOR



NPN TRANSISTOR

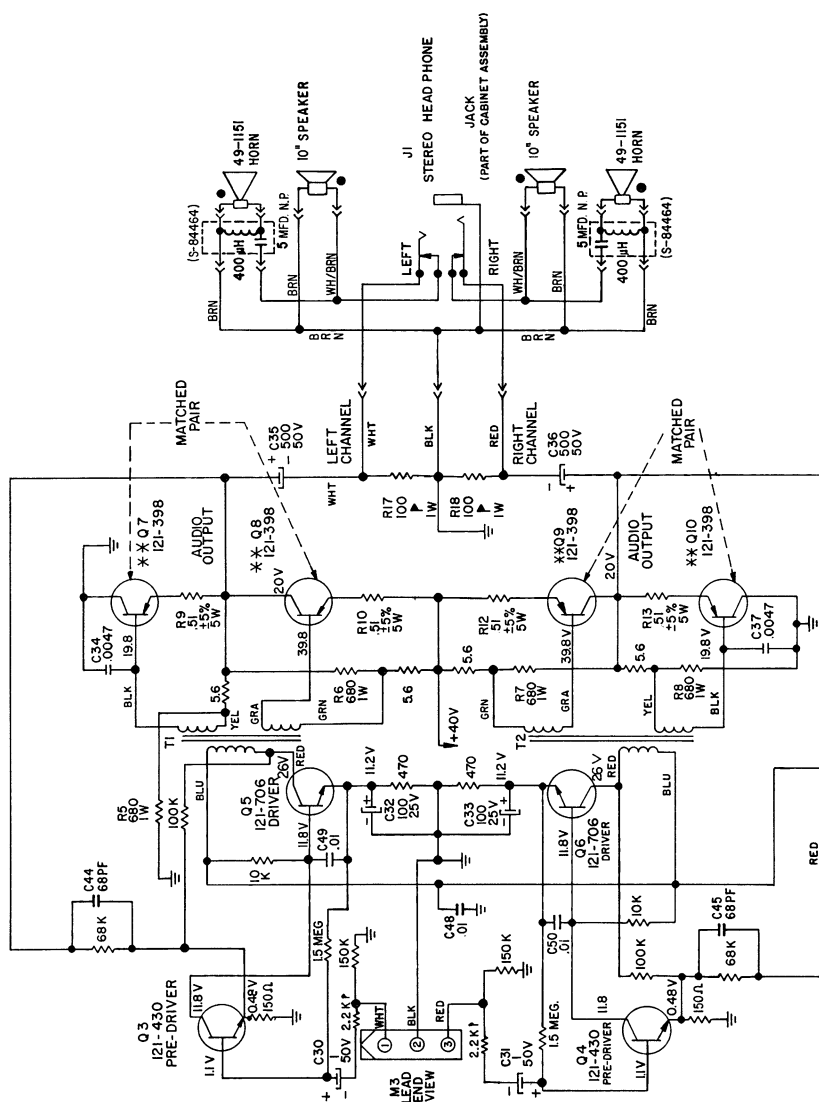




8ZT20 - CHASSIS LAYOUT

POWER AMPLIFIER CHASSIS

■ LEGEND CHASSIS 9A7Z1		
ITEM NO.	PART NO.	DESCRIPTION
C00	22383F	1MFD ELECTROLYTIC 50V
C01	22383F	100MFD ELECTROLYTIC 50V
C02	22387E	100MFD ELECTROLYTIC 25V
C03	22387E	100MFD ELECTROLYTIC 25V
C04	22383B	500MFD ELECTROLYTIC 50V
C05	22383B	500MFD ELECTROLYTIC 50V
C06	22383B	500MFD ELECTROLYTIC 50V
C07	22383B	500MFD ELECTROLYTIC 50V
C08	22461F	.01MFD DISC. 500V
C09	22461F	.01MFD DISC. 1000V
C10	22461F	.01MFD DISC. 1000V
C11	22461F	.01MFD DISC. 1000V
C12	22381B	100MFD ELECTROLYTIC 30V
C13	22381B	100MFD ELECTROLYTIC 30V
C14	22381B	100MFD ELECTROLYTIC 30V
C15	22381B	100MFD ELECTROLYTIC 30V
C16	22380B	68 PF DISC. 500V
C17	22380B	68 PF DISC. 500V
C18	22380B	68 PF DISC. 500V
C19	22380B	68 PF DISC. 500V
C20	22380B	68 PF DISC. 500V
C21	22380B	68 PF DISC. 500V
C22	22380B	68 PF DISC. 500V
C23	22380B	68 PF DISC. 500V
C24	22380B	68 PF DISC. 500V
C25	22380B	68 PF DISC. 500V
C26	22380B	68 PF DISC. 500V
C27	22380B	68 PF DISC. 500V
C28	22380B	68 PF DISC. 500V
C29	22380B	68 PF DISC. 500V
C30	22380B	68 PF DISC. 500V
C31	22380B	68 PF DISC. 500V
C32	22380B	68 PF DISC. 500V
C33	22380B	68 PF DISC. 500V
C34	22380B	68 PF DISC. 500V
C35	22380B	68 PF DISC. 500V
C36	22380B	68 PF DISC. 500V
C37	22380B	68 PF DISC. 500V
C38	22380B	68 PF DISC. 500V
C39	22380B	68 PF DISC. 500V
C40	22380B	68 PF DISC. 500V
C41	22380B	68 PF DISC. 500V
C42	22380B	68 PF DISC. 500V
C43	22380B	68 PF DISC. 500V
C44	22380B	68 PF DISC. 500V
C45	22380B	68 PF DISC. 500V
C46	22380B	68 PF DISC. 500V
C47	22380B	68 PF DISC. 500V
C48	22380B	68 PF DISC. 500V
C49	22380B	68 PF DISC. 500V
C50	22380B	68 PF DISC. 500V
C51	22380B	68 PF DISC. 500V
C52	22380B	68 PF DISC. 500V
C53	22380B	68 PF DISC. 500V
C54	22380B	68 PF DISC. 500V
C55	22380B	68 PF DISC. 500V
C56	22380B	68 PF DISC. 500V
C57	22380B	68 PF DISC. 500V
C58	22380B	68 PF DISC. 500V
C59	22380B	68 PF DISC. 500V
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C68	22380B	68 PF DISC. 500V
C69	22380B	68 PF DISC. 500V
C70	22380B	68 PF DISC. 500V
C71	22380B	68 PF DISC. 500V
C72	22380B	68 PF DISC. 500V
C73	22380B	68 PF DISC. 500V
C74	22380B	68 PF DISC. 500V
C75	22380B	68 PF DISC. 500V
C76	22380B	68 PF DISC. 500V
C77	22380B	68 PF DISC. 500V
C78	22380B	68 PF DISC. 500V
C79	22380B	68 PF DISC. 500V
C80	22380B	68 PF DISC. 500V
C81	22380B	68 PF DISC. 500V
C82	22380B	68 PF DISC. 500V
C83	22380B	68 PF DISC. 500V
C84	22380B	68 PF DISC. 500V
C85	22380B	68 PF DISC. 500V
C86	22380B	68 PF DISC. 500V
C87	22380B	68 PF DISC. 500V
C88	22380B	68 PF DISC. 500V
C89	22380B	68 PF DISC. 500V
C90	22380B	68 PF DISC. 500V
C91	22380B	68 PF DISC. 500V
C92	22380B	68 PF DISC. 500V
C93	22380B	68 PF DISC. 500V
C94	22380B	68 PF DISC. 500V
C95	22380B	68 PF DISC. 500V
C96	22380B	68 PF DISC. 500V
C97	22380B	68 PF DISC. 500V
C98	22380B	68 PF DISC. 500V
C99	22380B	68 PF DISC. 500V
C100		



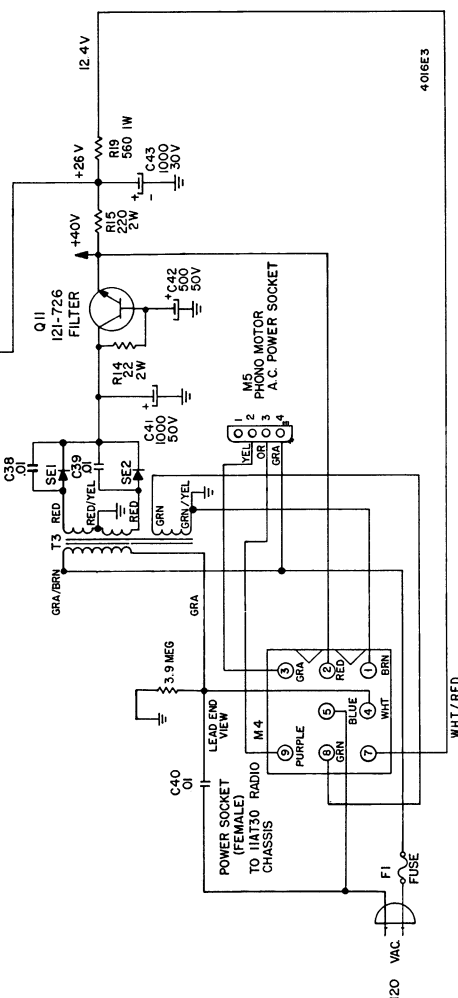
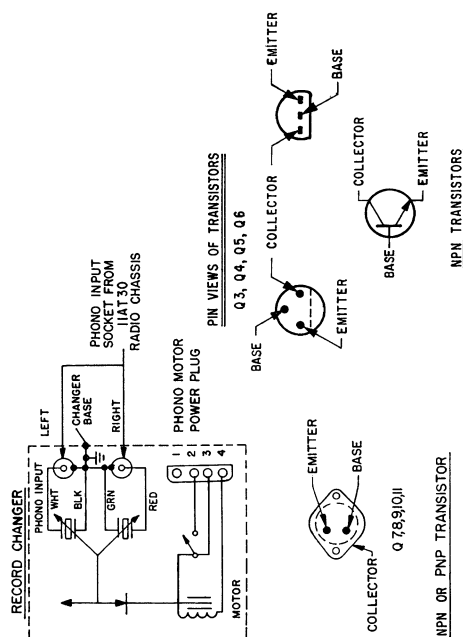
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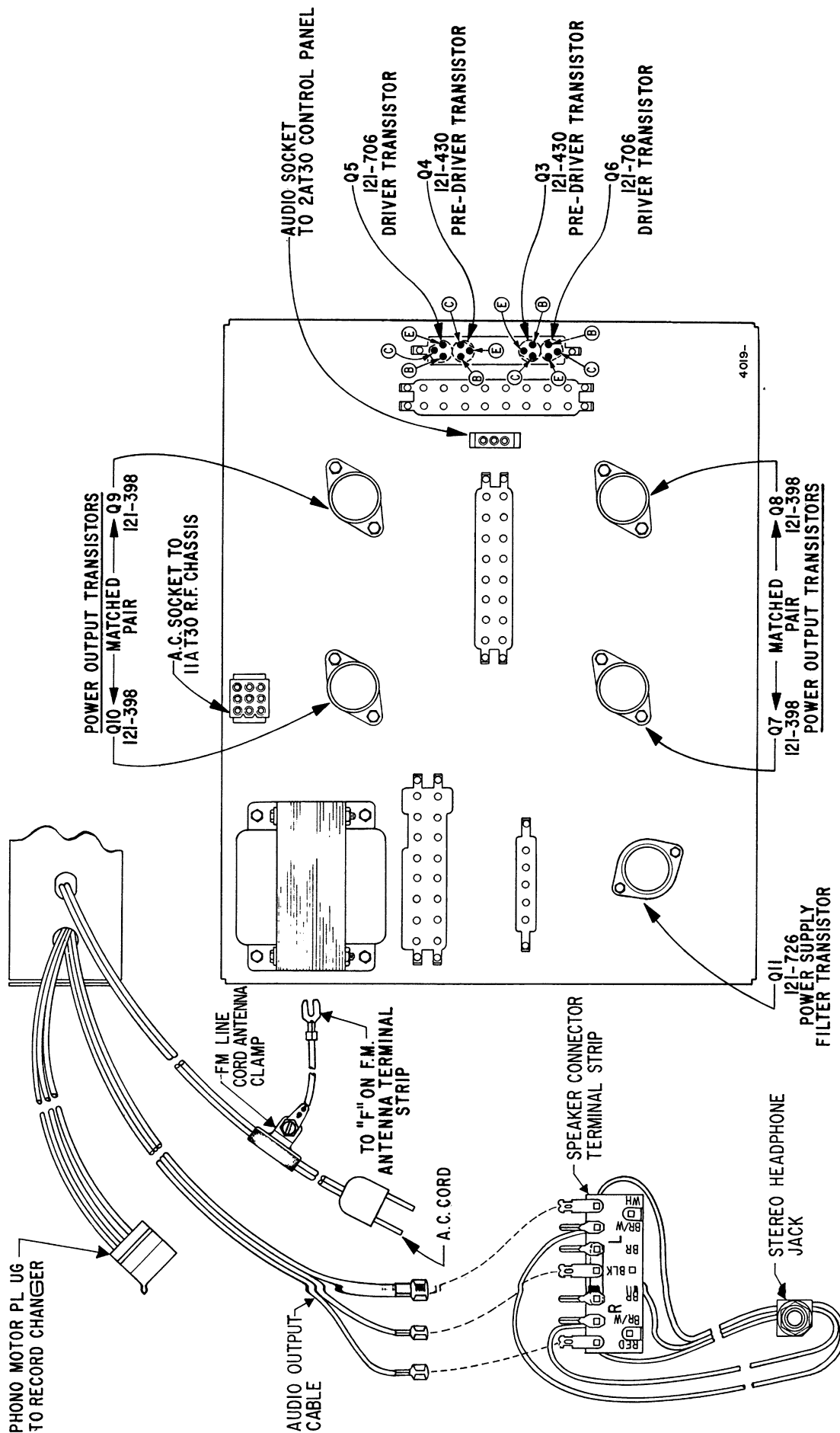
- ALL RESISTORS ARE 1/2 WATT CARBON 10% TOLERANCE UNLESS OTHERWISE SPECIFIED.
- ALL TRANSISTORS IN MICROFANS UNLESS OTHERWISE SPECIFIED.
- ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED. MEASURED FROM CHASSIS WITH NO SIGNAL USING A V.T.V.M.

≡ DENOTES CHASSIS

ALL 121-388 TRANSISTORS IN ANY ONE CHASSIS MUST HAVE THE SAME CODE.

- ▲ INDICATES 20% RESISTOR.
- INDICATES WHITE OR YELLOW VOICE COIL. POLARITY IDENTIFICATION DOT ON SPEAKER





9AT27 - CHASSIS LAYOUT



ALL TRANSISTORS

QZ02 QZ03

C
B
E

OR

FLAT
OPTIONAL

E
B
C

PIN END VIEW

C
B
E

OR

FLAT
OPTIONAL

E
B
C

PIN END VIEW

BANDSWITCH POSITIONS

1 PHONO (SHOWN)

2 TAPE

3 AM

4 FM

5 P.M. AFC

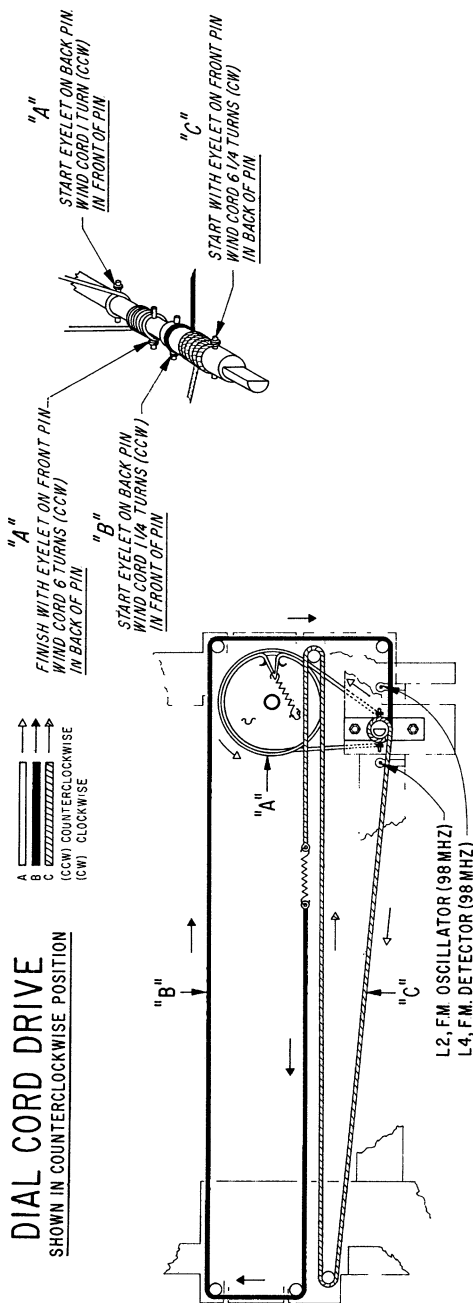
6 OFF

FREQUENCY: A.M. 555KHZ
 F.M. 107KHZ
 TUNING RANGE: 100KHZ
 F.M. 88-108MHz
 RESISTORS: 5-10% TOLERANCE, 1/2 WATT CARBON
 RESISTORS OTHERWISE SPECIFIED.
 CAPACITORS: 5-10% TOLERANCE, CAPACITANCE IN MICROFARDS
 UNLESS OTHERWISE SPECIFIED.
 INDICATES $\pm 20\%$
 VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED; AND ARE MEASURED
 WITHOUT SIGNAL INPUT USING A VACUUM TUBE VOLTMETER.
 VOLTAGES MEASURED IN THE F.M. STEREO POSITION
 DENOTES CHASSIS.
 DENOTES PRINTED CIRCUIT BOARD

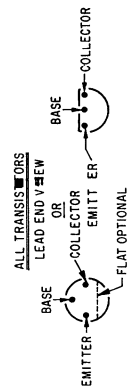


DIAL CORD DRIVE SHOWN IN COUNTERCLOCKWISE POSITION

A →
B →
C →
(CCW) COUNTERCLOCKWISE
(CW) CLOCKWISE

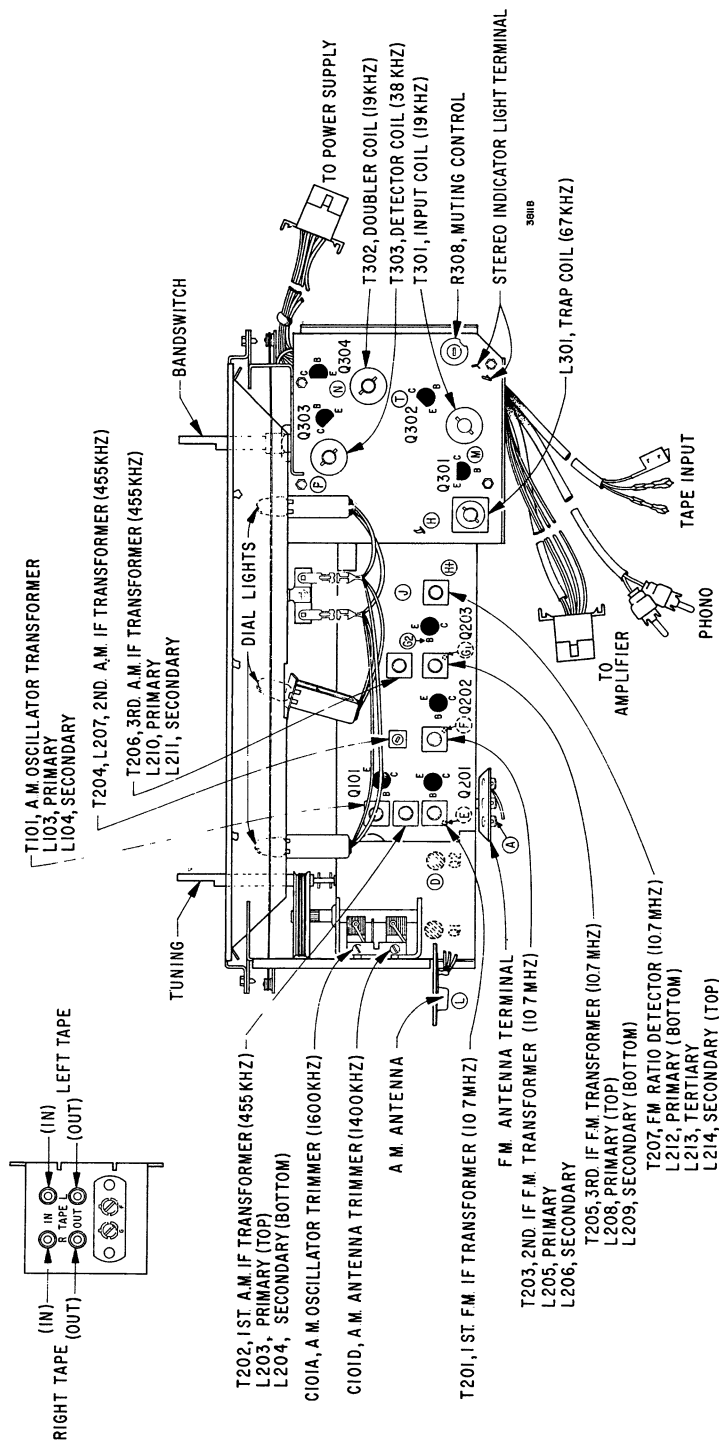


TRANSISTORS			
No.	PART No.	DESCRIPTION	REQ'D
Q1	121-612	FM RF	
Q2	121-613	FM CONV	
Q101	121-257	A.M. CONV	
Q201	121-614	A.M. / F.M. 1ST IF	
Q202	121-546	A.M. / F.M. 2ND IF	
Q203	121-546	F.M. 3RD IF	
Q301	121-639	COMP AMP	
Q302	121-639	19KHZ AMP	
Q303	121-639	38KHZ AMP	
Q304	121-639	STEREO IND. SW	



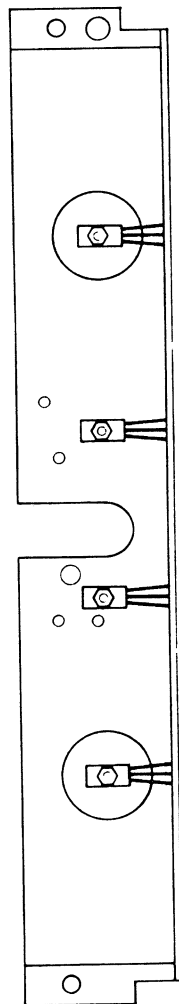
TEST POINTS	
A	FM-ANT INP UT
C	REVERSE AGC
D	1ST FM IF INP UT
E	2ND FM IF INP UT
F	3RD FM IF INP UT
G1	RATIO DETECTOR INPUT
G2	3RD FM OUT PUT
H	FM DETECTOR OUTPUT
HH	FM RATIO DET PRIMARY TUNING
J	FM B+
K	AM B+
L	AM RF & IF INPUT
M	67KHZ REJECTION & MX PHASE
N	MX DOUBLER OUTPUT
P	MX PHASING
T	MX DISABLING

ALL TEST POINTS SHOWN DOTTED ON IF AND MX TRANSFORMERS ARE ACCESSIBLE FROM BOTTOM OF CHASSIS



102T30 - CHASSIS LAYOUT

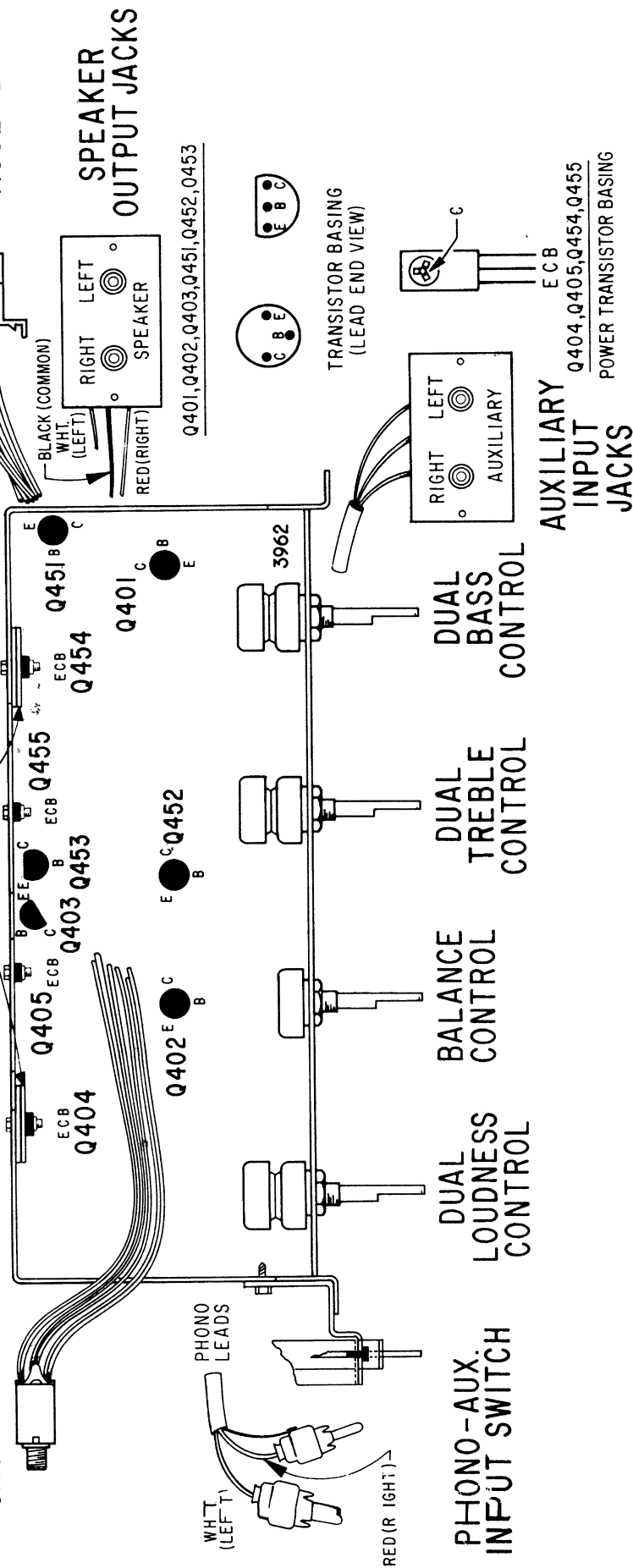
TRANSISTOR		
No	PART No	DESCRIPTION REQ'D
Q401	121-433	PRE-AMPLIFIER 2
Q451	121-433	PRE-AMPLIFIER 2
Q402	121-433	PRE-DRIVER 2
Q452	121-433	PRE-DRIVER 2
Q403	121-706	DRIVER 2
Q453	121-706	DRIVER 2
Q404	121-710	OUTPUT 2
Q454	121-710	OUTPUT 2
Q405	121-709	OUTPUT 2
Q455	121-709	OUTPUT 2



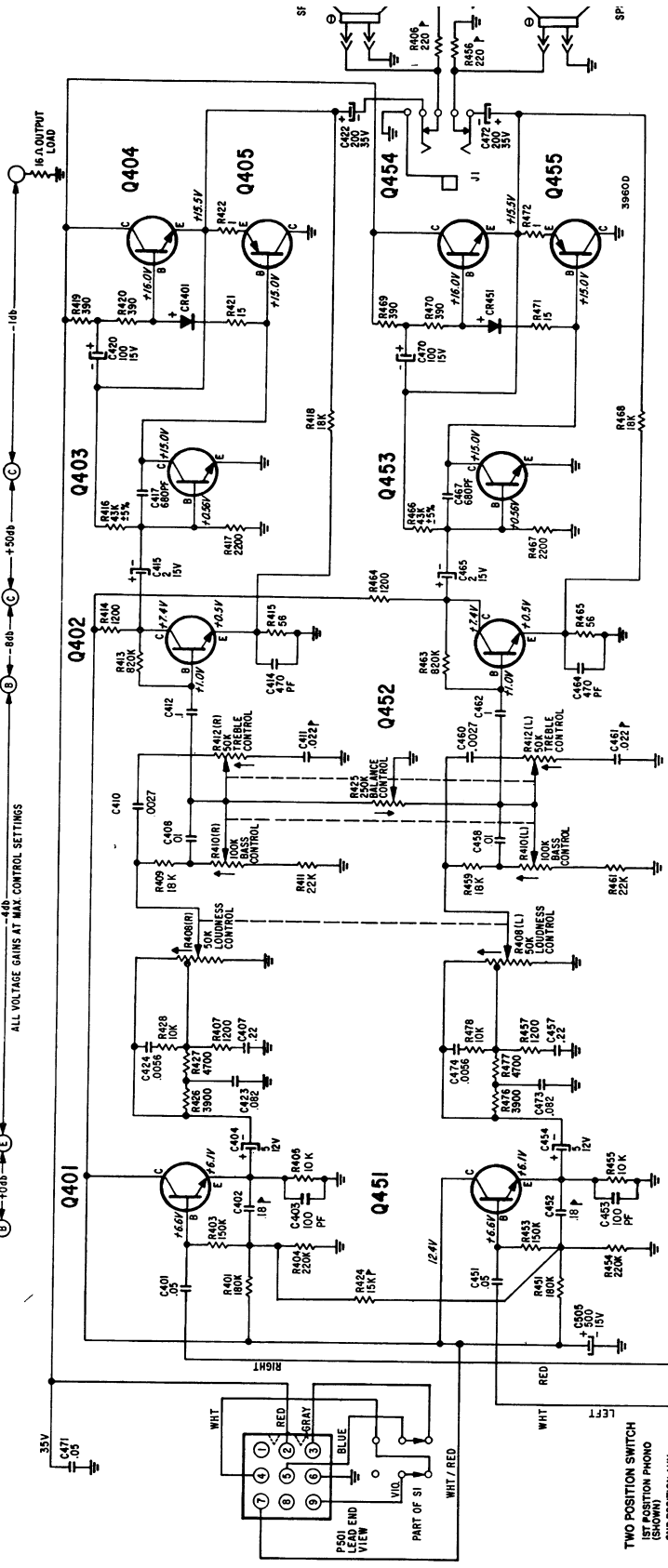
FRONT VIEW, FRONT PANEL REMOVED
(SHOWING POWER TRANSISTORS AND HEAT SINKS ONLY)

FIBER WASHER (93-1833) INSERTED BETWEEN
ALUMINUM WASHER (93-1834) & TRANSISTOR

STEREO
HEADPHONES
JACK

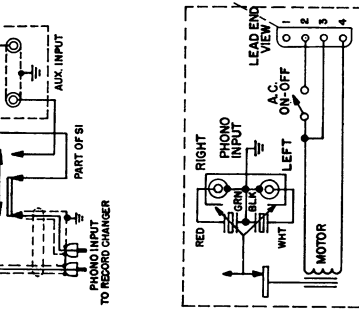
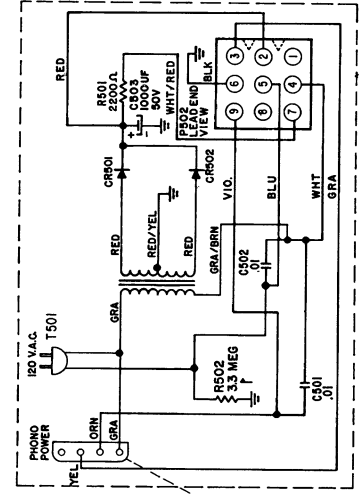
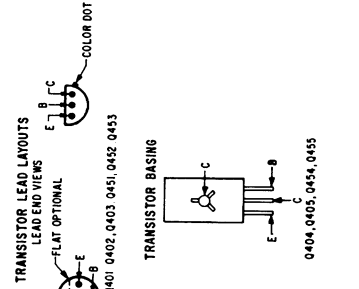


ITEM	PART	DESCRIPTION
Q401	12-433	PRE-AMPLIFIER
Q402	12-433	PRE-AMPLIFIER
Q403	12-433	PRE-AMPLIFIER
Q404	12-433	PRE-AMPLIFIER
Q405	12-433	PRE-AMPLIFIER
Q451	12-433	PRE-AMPLIFIER
Q452	12-433	PRE-AMPLIFIER
Q453	12-433	PRE-AMPLIFIER
Q454	12-433	PRE-AMPLIFIER
Q455	12-433	PRE-AMPLIFIER
Q456	12-433	PRE-AMPLIFIER
Q457	12-433	PRE-AMPLIFIER
Q458	12-433	PRE-AMPLIFIER
Q459	12-433	PRE-AMPLIFIER
Q460	12-433	PRE-AMPLIFIER
Q461	12-433	PRE-AMPLIFIER
Q462	12-433	PRE-AMPLIFIER
Q463	12-433	PRE-AMPLIFIER
Q464	12-433	PRE-AMPLIFIER
Q465	12-433	PRE-AMPLIFIER
Q466	12-433	PRE-AMPLIFIER
Q467	12-433	PRE-AMPLIFIER
Q468	12-433	PRE-AMPLIFIER
Q469	12-433	PRE-AMPLIFIER
Q470	12-433	PRE-AMPLIFIER
Q471	12-433	PRE-AMPLIFIER
Q472	12-433	PRE-AMPLIFIER
Q473	12-433	PRE-AMPLIFIER
Q474	12-433	PRE-AMPLIFIER
Q475	12-433	PRE-AMPLIFIER
Q476	12-433	PRE-AMPLIFIER
Q477	12-433	PRE-AMPLIFIER
Q478	12-433	PRE-AMPLIFIER
Q479	12-433	PRE-AMPLIFIER
Q480	12-433	PRE-AMPLIFIER
Q481	12-433	PRE-AMPLIFIER
Q482	12-433	PRE-AMPLIFIER
Q483	12-433	PRE-AMPLIFIER
Q484	12-433	PRE-AMPLIFIER
Q485	12-433	PRE-AMPLIFIER
Q486	12-433	PRE-AMPLIFIER
Q487	12-433	PRE-AMPLIFIER
Q488	12-433	PRE-AMPLIFIER
Q489	12-433	PRE-AMPLIFIER
Q490	12-433	PRE-AMPLIFIER
Q491	12-433	PRE-AMPLIFIER
Q492	12-433	PRE-AMPLIFIER
Q493	12-433	PRE-AMPLIFIER
Q494	12-433	PRE-AMPLIFIER
Q495	12-433	PRE-AMPLIFIER
Q496	12-433	PRE-AMPLIFIER
Q497	12-433	PRE-AMPLIFIER
Q498	12-433	PRE-AMPLIFIER
Q499	12-433	PRE-AMPLIFIER
Q500	12-433	PRE-AMPLIFIER

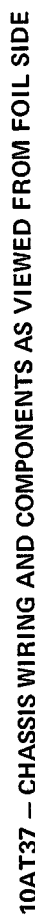


TRANSISTORS	TRANSISTORS
No.	DESCRIPTION
Q401	12-433 PRE-AMPLIFIER
Q402	12-433 PRE-AMPLIFIER
Q403	12-433 PRE-AMPLIFIER
Q404	12-433 PRE-AMPLIFIER
Q405	12-433 PRE-AMPLIFIER
Q451	12-433 PRE-AMPLIFIER
Q452	12-433 PRE-AMPLIFIER
Q453	12-433 PRE-AMPLIFIER
Q454	12-433 PRE-AMPLIFIER
Q455	12-433 PRE-AMPLIFIER

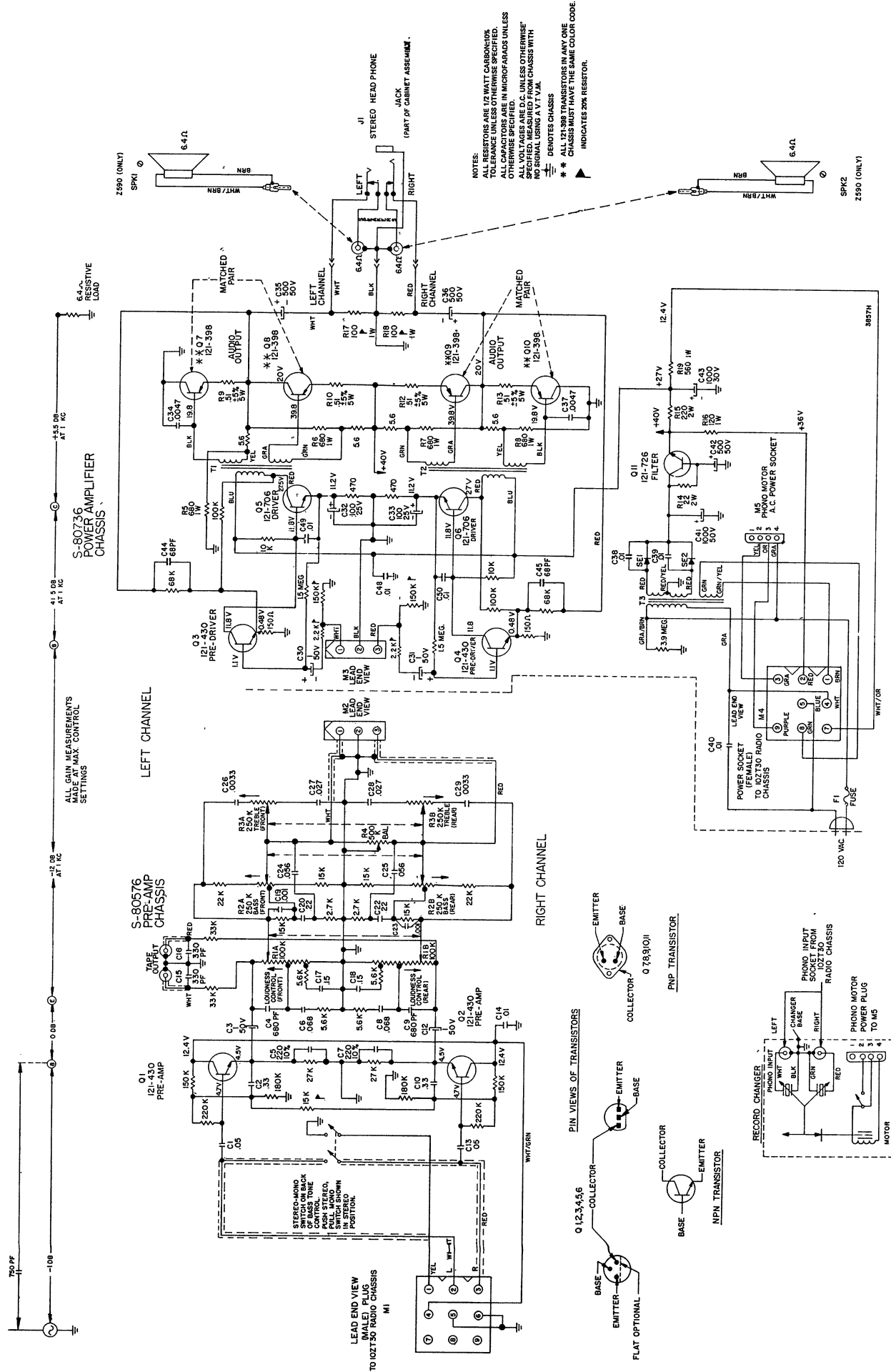
- NOTES:
1. HIGHER CASSIS GROUND
 2. ALL RESISTORS IN OHMS UNLESS OTHERWISE SPECIFIED
 3. ALL RESISTORS IN OHMS UNLESS OTHERWISE SPECIFIED
 4. ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED
 5. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED
 6. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED
 7. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED
 8. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED



10AT37 - SCHEMATIC



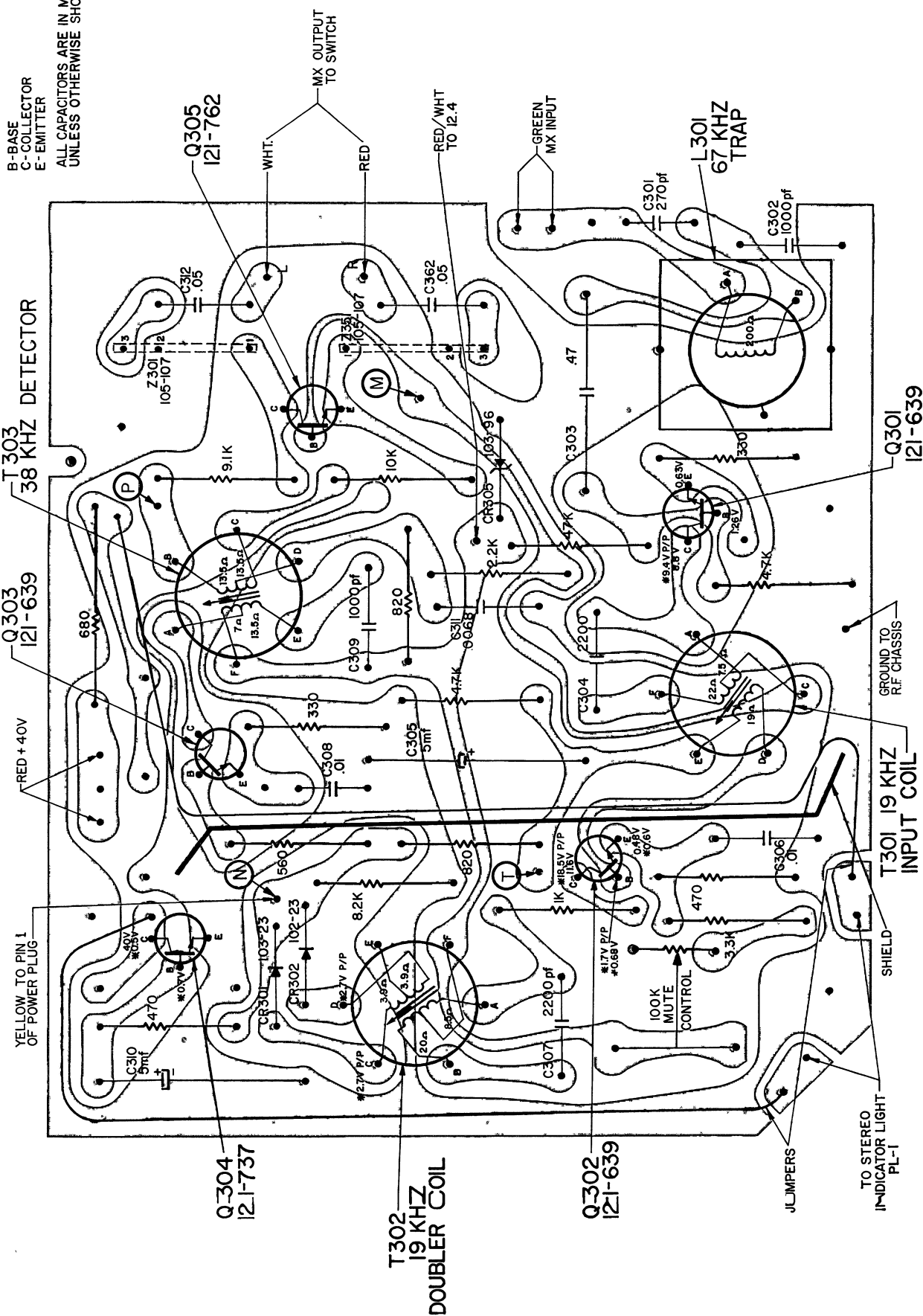
11ZT27 - CHASSIS LAYOUT



LEGEND

B-BASE
C-COLLECTOR
E-EMITTER

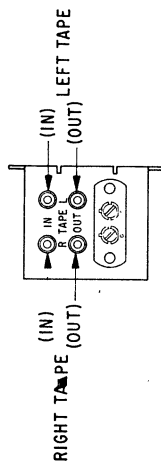
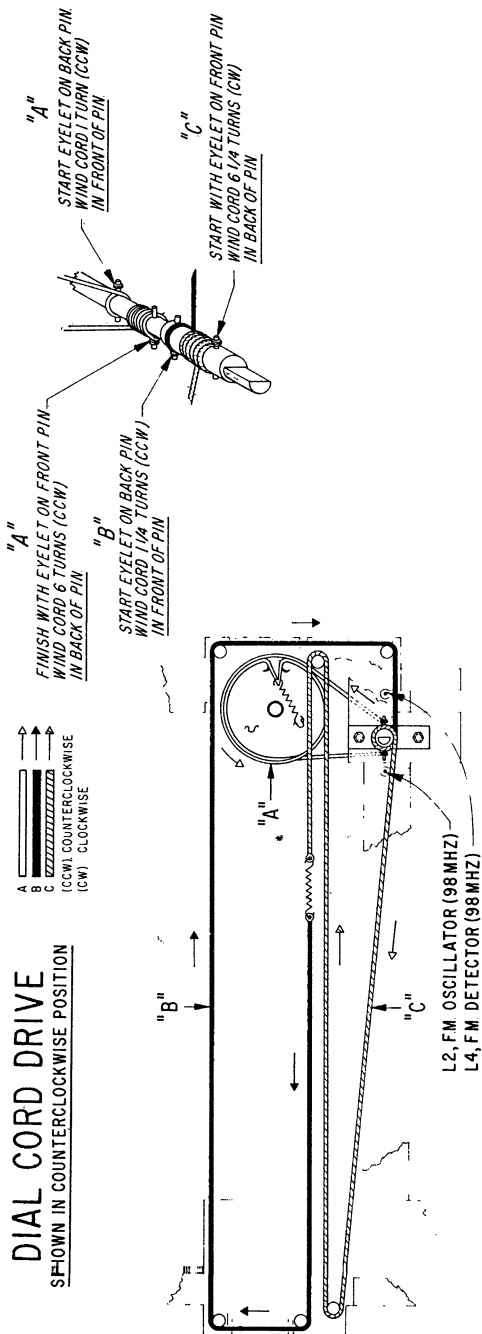
ALL CAPACITORS ARE IN MFD.
UNLESS OTHERWISE SHOWN.



DIAL CORD DRIVE

SHOWN IN COUNTERCLOCKWISE POSITION

A
B
C
CLOCKWISE
(CW)
COUNTERCLOCKWISE
(CCW)



T101, A.M. OSCILLATOR TRANSFORMER
L103, PRIMARY
L104, SECONDARY

T204, L207, 2ND. A.M. IF TRANSFORMER (455 KHZ)
L210, PRIMARY
L211, SECONDARY

T2 02, 1ST A.M. IF TRANSFORMER (455 KHZ)
L2 03, PRIMARY (TOP)
L2 04, SECONDARY (BOTTOM)

C101-A, A.M. OSCILLATOR TRIMMER (1600 KHZ)

C101-D, A.M. ANTENNA TRIMMER (1400 KHZ)

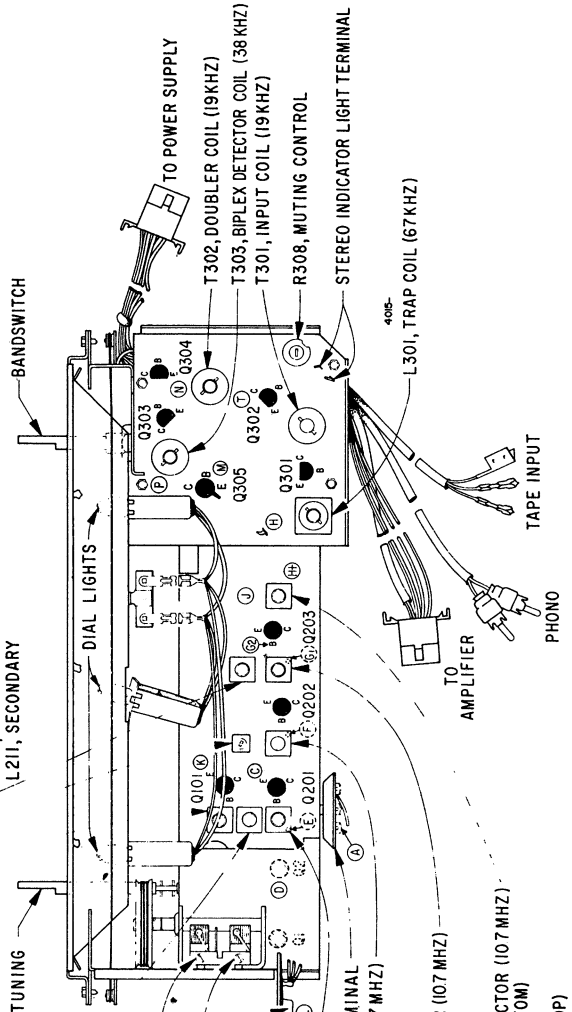
A.M. ANTENNA

T20 1, 1ST FM IF TRANSFORMER (10.7 MHz)
L201, PRIMARY (TOP)
L202, SECONDARY (BOTTOM)

T203, 2ND. IF FM TRANSFORMER (10.7 MHz)
L205, PRIMARY (TOP)
L206, SECONDARY (BOTTOM)

T205, 3RD IF FM TRANSFORMER (10.7 MHz)
L208, PRIMARY (TOP)
L209, SECONDARY (BOTTOM)

T207, FM RATIO DETECTOR (10.7 MHz)
L212, PRIMARY (BOTTOM)
L213, TERTIARY
L214, SECONDARY (TOP)



TRANSISTORS			
No.	PART No.	DESCRIPTION	RECD.
Q1	121-612	FM RF	
Q2	121-613	FM CONV	
Q101	121-257	A.M. CONV	
Q201	121-614	A.M. / FM 1ST IF	
Q202	121-546	A.M. / FM 2ND IF	
Q203	121-546	FM 3RD IF	
Q301	121-639	COMP AMP	
Q302	121-639	19 KHZ AMP	
Q303	121-639	38 KHZ AMP	
Q304	121-639	STEREO IND SW	
Q305	121-762	BIPLEX DETECTOR	

ALL TRANSISTORS

LEAD END VIEW

OR

FLAT OPTIONAL

BASE

COLLECTOR

EMITTER

BASE

COLLECTOR

EMITTER

BASE

COLLECTOR

EMITTER

BASE

COLLECTOR

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BASE

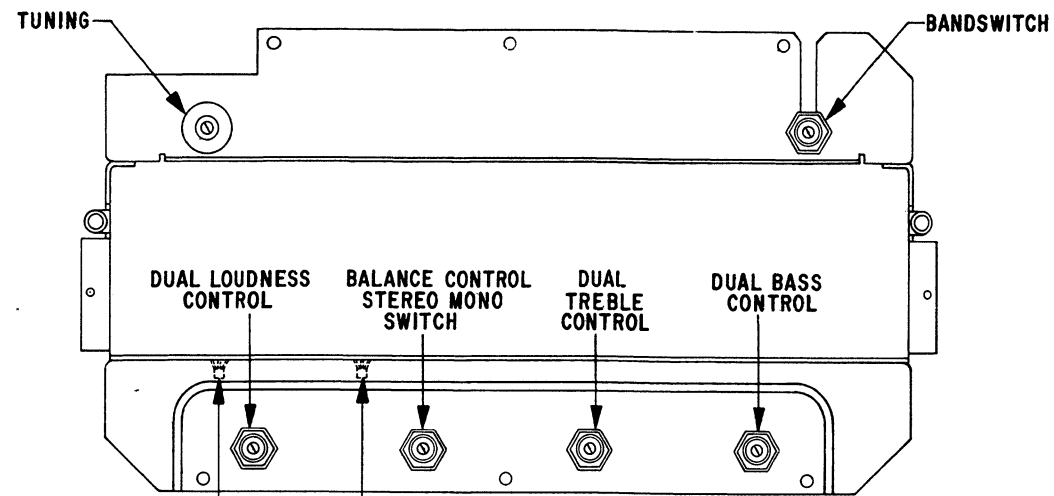
COLLECTOR

EMITTER

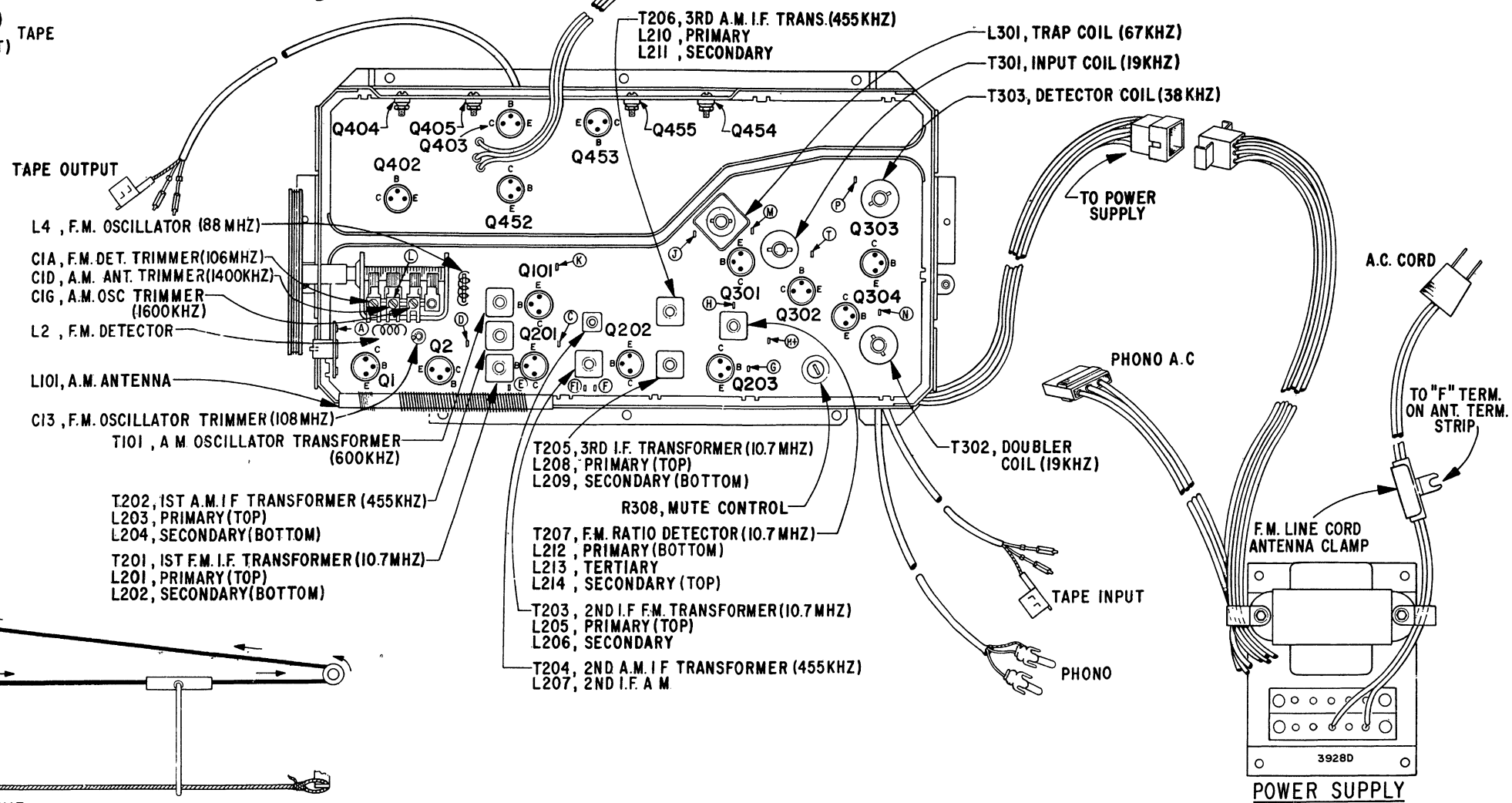
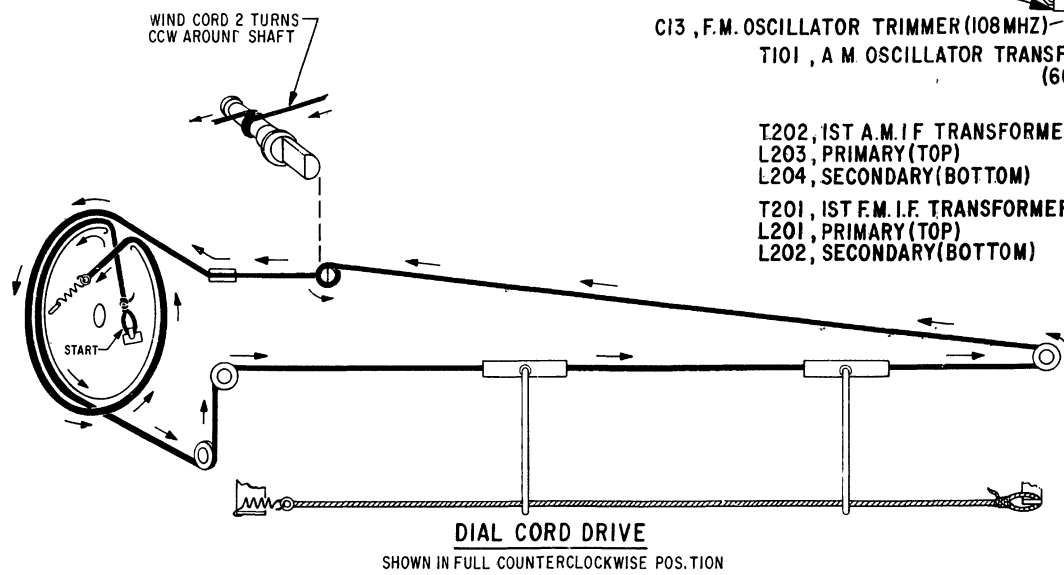
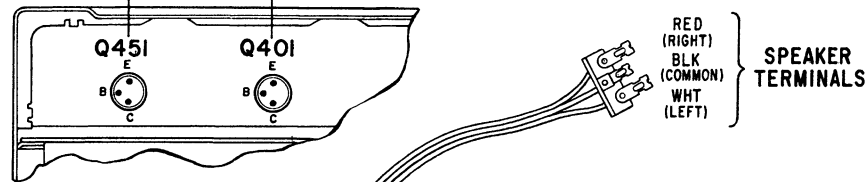
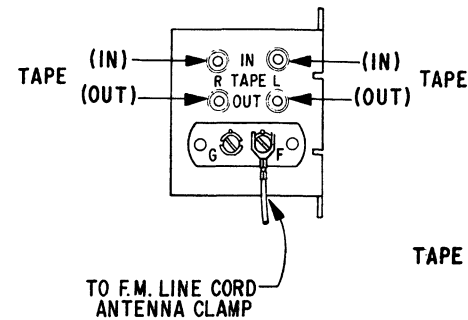
TEST POINTS	
A	FM-ANT INPUT
C	REVERSE AGC
D	1ST FM IF INPUT
E	2ND FM IF INPUT
F	3RD FM IF INPUT
G1	RATIO DETECTOR INPUT
G2	3RD FM OUTPUT
H	FM DETECTOR OUTPUT
I	FM RATIO DET PRIMARY TUNING
J	FM B+
K	FM B+
L	FM RF & IF INPUT
M	67 KHZ REJECTION & MX PHASE
N	MX DOUBLER OUTPUT
P	MX PHASING
T	MX DISABLING

ALL TEST POINTS SHOWN DOTTED ON IF TRANSFORMERS ARE ACCESSIBLE FROM BOTTOM OF CHASSIS

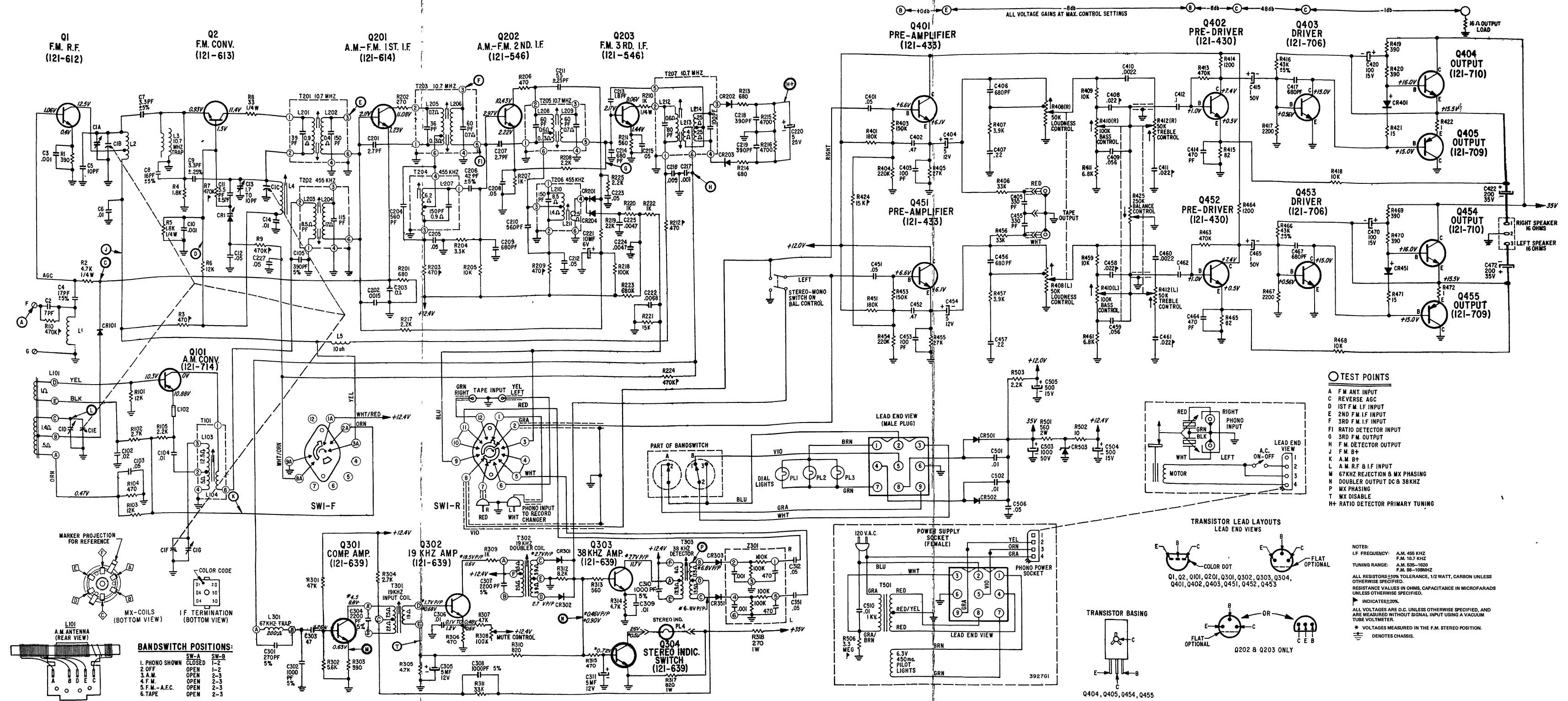
TRANSISTORS		
No.	PART No.	DESCRIPTION
Q1	I2I-612	F.M.-R.F.
Q2	I2I-613	F.M. CONVERTER
Q101	I2I-714	A.M. CONVERTER
Q201	I2I-614	A.M.-F.M. 1ST I.F.
Q202	I2I-546	A.M.-F.M. 2ND I.F.
Q203	I2I-546	F.M. 3RD I.F.
Q301	I2I-639	COMP AMP
Q302	I2I-639	19KHZ AMP
Q303	I2I-639	38KHZ
Q304	I2I-639	STEREO INDICATOR SWITCH
Q401	I2I-433	PRE-AMPLIFIER
Q402	I2I-430	PRE-DRIVER
Q403	I2I-706	DRIVER
Q404	I2I-710	OUTPUT
Q405	I2I-709	OUTPUT
Q451	I2I-433	PRE-AMPLIFIER
Q452	I2I-430	PRE-DRIVER
Q453	I2I-706	DRIVER
Q454	I2I-710	OUTPUT
Q455	I2I-709	OUTPUT



TEST POINTS	
A	F.M. ANT. INPUT
C	REVERSE AGC
D	1ST F.M. I.F. INPUT
E	2ND F.M. I.F. INPUT
F	3RD F.M. I.F. INPUT
FI	RATIO DETECTOR INPUT
G	3RD F.M. OUTPUT
H	F.M. DETECTOR OUTPUT
J	F.M. B+
K	A.M. B+
L	A.M. R.F. & I.F. INPUT
M	67KHZ REJECTION & MX PHASING
N	DOUBLER OUTPUT DC & 38KHZ
P	MX PHASING
T	MX DISABLE
H+	RATIO DET. PRIMARY TUNING



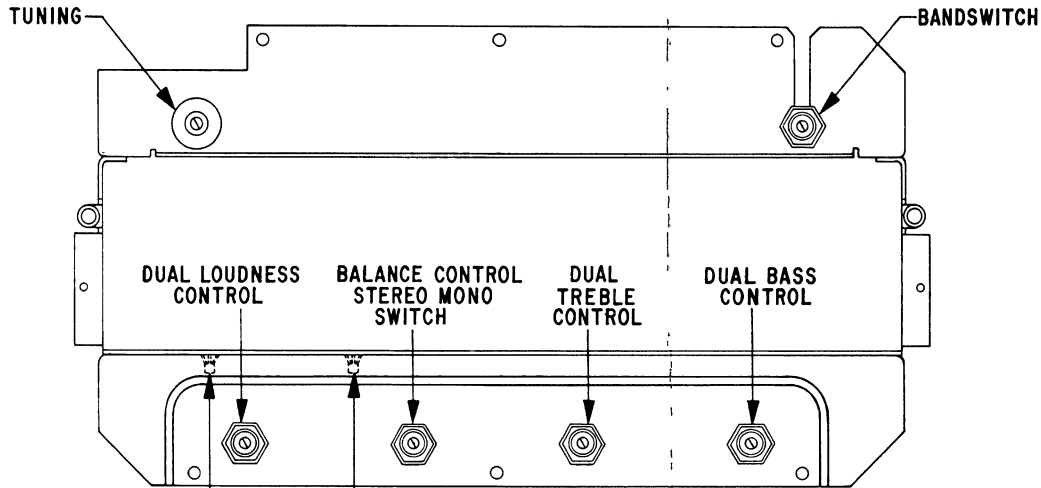
20AT30Z - CHASSIS LAYOUT



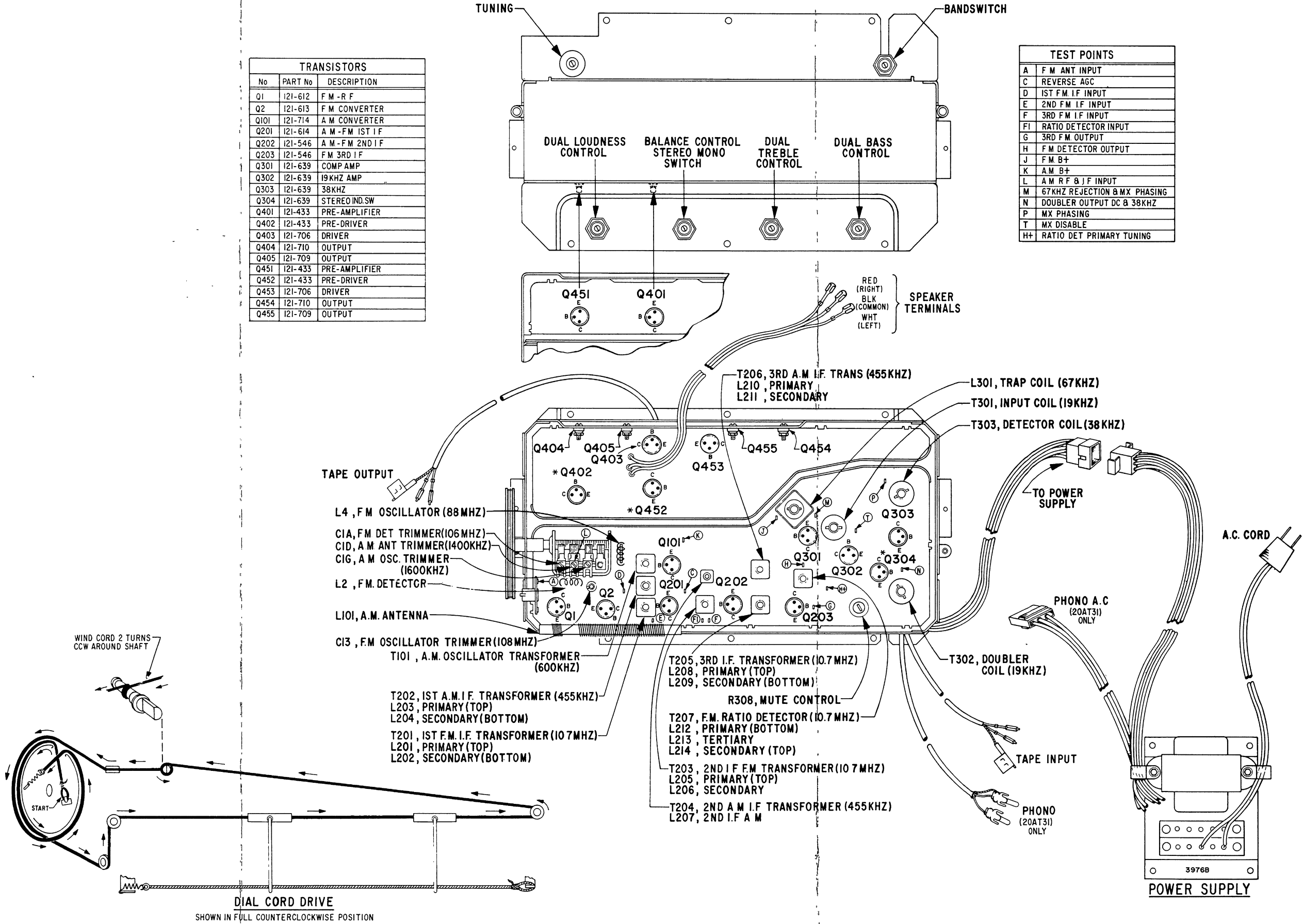
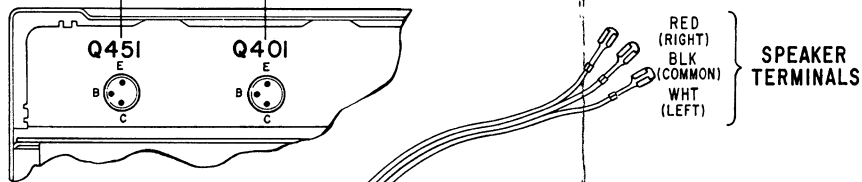
20AT30Z - SCHEMATIC

LEGEND CHASSIS 20AT30Z											
ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
C1A	22-5812	F.M. DETECTOR TRIMMER	C461	22-5814	.022 MFD 20% 100V	R418	63-1827	10K OHM	Q451	12I-433	
C1B		F.M. DETECTOR TUNING	C462	22-5815	1 MFD DISC. 10V	R419	63-1758	390 OHM	Q404	12I-710	
C1C		A.M. ANTENNA TRIMMER	C463	22-5816	470 PF DISC. 500V	R420	63-1758	390 OHM	Q402	12I-430	
C1D		A.M. ANTENNA TUNING	C464	22-5817	1 MFD ELECTROLYTIC 50V	R421	63-1758	15 OHM			
C1E		A.M. OSCILLATOR TRIMMER	C465	22-5818	680 PF DISC. 500V	R422	63-4501	1 OHM			
C1F		A.M. OSCILLATOR TUNING	C466	22-5819	100 MFD ELECTROLYTIC 15V	R423	63-1838	15K OHM 20K			
C2	22-5819	.01 MFD DISC. 25V	C467	22-5820	1 MFD DISC. 500V	R424	63-1880	200K BALANCE CONTROL & SWITCH			
C3	22-5821	.01 MFD DISC. 25V	C468	22-5821	1 MFD DISC. 500V	R425	63-1880	150K OHM			
C4	22-5822	.01 MFD DISC. 25V	C469	22-5822	1 MFD DISC. 500V	R426	63-1880	220K OHM			
C5	22-5823	.01 MFD DISC. 25V	C470	22-5823	1 MFD DISC. 500V	R427	63-1880	27K OHM			
C6	22-5824	.01 MFD DISC. 25V	C471	22-5824	1 MFD DISC. 500V	R428	63-1880	33K OHM			
C7	22-5825	.01 MFD DISC. 25V	C472	22-5825	1 MFD DISC. 500V	R429	63-1880	39K OHM			
C8	22-5826	.01 MFD DISC. 25V	C473	22-5826	1 MFD DISC. 500V	R430	63-1880	47K OHM			
C9	22-5827	.01 MFD DISC. 25V	C474	22-5827	1 MFD DISC. 500V	R431	63-1880	56K OHM			
C10	22-5828	.01 MFD DISC. 25V	C475	22-5828	1 MFD DISC. 500V	R432	63-1880	68K OHM			
C11	22-5829	.01 MFD DISC. 25V	C476	22-5829	1 MFD DISC. 500V	R433	63-1880	82K OHM			
C12	22-5830	.01 MFD DISC. 25V	C477	22-5830	1 MFD DISC. 500V	R434	63-1880	100K OHM			
C13	22-5831	.01 MFD DISC. 25V	C478	22-5831	1 MFD DISC. 500V	R435	63-1880	120K OHM			
C14	22-5832	.01 MFD DISC. 25V	C479	22-5832	1 MFD DISC. 500V	R436	63-1880	150K OHM			
C15	22-5833	.01 MFD DISC. 25V	C480	22-5833	1 MFD DISC. 500V	R437	63-1880	180K OHM			
C16	22-5834	.01 MFD DISC. 25V	C481	22-5834	1 MFD DISC. 500V	R438	63-1880	220K OHM			
C17	22-5835	.01 MFD DISC. 25V	C482	22-5835	1 MFD DISC. 500V	R439	63-1880	270K OHM			
C18	22-5836	.01 MFD DISC. 25V	C483	22-5836	1 MFD DISC. 500V	R440	63-1880	330K OHM			
C19	22-5837	.01 MFD DISC. 25V	C484	22-5837	1 MFD DISC. 500V	R441	63-1880	390K OHM			
C20	22-5838	.01 MFD DISC. 25V	C485	22-5838	1 MFD DISC. 500V	R442	63-1880	470K OHM			
C21	22-5839	.01 MFD DISC. 25V	C486	22-5839	1 MFD DISC. 500V	R443	63-1880	560K OHM			
C22	22-5840	.01 MFD DISC. 25V	C487	22-5840	1 MFD DISC. 500V	R444	63-1880	680K OHM			
C23	22-5841	.01 MFD DISC. 25V	C488	22-5841	1 MFD DISC. 500V	R445	63-1880	820K OHM			
C24	22-5842	.01 MFD DISC. 25V	C489	22-5842	1 MFD DISC. 500V	R446	63-1880	1M OHM			
C25	22-5843	.01 MFD DISC. 25V	C490	22-5843	1 MFD DISC. 500V	R447	63-1880	1.2K OHM			
C26	22-5844	.01 MFD DISC. 25V	C491	22-5844	1 MFD DISC. 500V	R448	63-1880	1.5K OHM			
C27	22-5845	.01 MFD DISC. 25V	C492	22-5845	1 MFD DISC. 500V	R449	63-1880	1.8K OHM			
C28	22-5846	.01 MFD DISC. 25V	C493	22-5846	1 MFD DISC. 500V	R450	63-1880	2.2K OHM			
C29	22-5847	.01 MFD DISC. 25V	C494	22-5847	1 MFD DISC. 500V	R451	63-1880	2.7K OHM			
C30	22-5848	.01 MFD DISC. 25V	C495	22-5848	1 MFD DISC. 500V	R452	63-1880	3.3K OHM			
C31	22-5849	.01 MFD DISC. 25V	C496	22-5849	1 MFD DISC. 500V	R453	63-1880	3.9K OHM			
C32	22-5850	.01 MFD DISC. 25V	C497	22-5850	1 MFD DISC. 500V	R454	63-1880	4.7K OHM			
C33	22-5851	.01 MFD DISC. 25V	C498	22-5851	1 MFD DISC. 500V	R455	63-1880	5.6K OHM			
C34	22-5852	.01 MFD DISC. 25V	C499	22-5852	1 MFD DISC. 500V	R456	63-1880	6.8K OHM			
C35	22-5853	.01 MFD DISC. 25V	C500	22-5853	1 MFD DISC. 500V	R457	63-1880	8.2K OHM			
C36	22-5854	.01 MFD DISC. 25V	C501	22-5854	1 MFD DISC. 500V	R458	63-1880	10K OHM			
C37	22-5855	.01 MFD DISC. 25V	C502	22-5855	1 MFD DISC. 500V	R459	63-1880	12K OHM			
C38	22-5856	.01 MFD DISC. 25V	C503	22-5856	1 MFD DISC. 500V	R460	63-1880	15K OHM			
C39	22-5857	.01 MFD DISC. 25V	C504	22-5857	1 MFD DISC. 500V	R461	63-1880	18K OHM			
C40	22-5858	.01 MFD DISC. 25V	C505	22-5858	1 MFD DISC. 500V	R462	63-1880	22K OHM			
C41	22-5859	.01 MFD DISC. 25V	C506	22-5859	1 MFD DISC. 500V	R463	63-1880	27K OHM			
C42	22-5860	.01 MFD DISC. 25V	C507	22-5860	1 MFD DISC. 500V	R464	63-1880	33K OHM			
C43	22-5861	.01 MFD DISC. 25V	C508	22-5861	1 MFD DISC. 500V	R465	63-1880	39K OHM			
C44	22-5862	.01 MFD DISC. 25V	C509	22-5862	1 MFD DISC. 500V	R466	63-1880	47K OHM			
C45	22-5863	.01 MFD DISC. 25V	C510	22-5863	1 MFD DISC. 500V	R467	63-1880	56K OHM			
C46	22-5864	.01 MFD DISC. 25V	C511	22-5864	1 MFD DISC. 500V	R468	63-1880	68K OHM			
C47	22-5865	.01 MFD DISC. 25V	C512	22-5865	1 MFD DISC. 500V	R469	63-1880	82K OHM			
C48	22-5866	.01 MFD DISC. 25V	C513	22-5866	1 MFD DISC. 500V	R470	63-1880	100K OHM			
C49	22-5867	.01 MFD DISC. 25V	C514	22-5867	1 MFD DISC. 500V	R471	63-1880	120K OHM			
C50	22-5868	.01 MFD DISC. 25V	C515	22-5868	1 MFD DISC. 500V	R472	63-1880	150K OHM			
C51	22-5869	.01 MFD DISC. 25V	C516	22-5869	1 MFD DISC. 500V	R473	63-1880	180K OHM			
C52	22-5870	.01 MFD DISC. 25V	C517	22-5870	1 MFD DISC. 500V	R474	63-1880	220K OHM			
C53	22-5871	.01 MFD DISC. 25V	C518	22-5871	1 MFD DISC. 500V	R475	63-1880	270K OHM			
C54	22-5872	.01 MFD DISC. 25V	C519	22-5872	1 MFD DISC. 500V	R476	63-1880	330K OHM			
C55	22-5873	.01 MFD DISC. 25V	C520	22-5873	1 MFD DISC. 500V	R477	63-1880	390K OHM			
C56	22-5874	.01 MFD DISC. 25V	C521	22-5874	1 MFD DISC. 500V	R478	63-1880	470K OHM			
C57	22-5875	.01 MFD DISC. 25V	C522	22-5875	1 MFD DISC. 500V	R479	63-1880	560K OHM			
C58	22-5876	.01 MFD DISC. 25V	C523	22-5876	1 MFD DISC. 500V	R480	63-1880	680K OHM			
C59	22-5877	.01 MFD DISC. 25V	C524	22-5877	1 MFD DISC. 500V	R481	63-1880	820K OHM			
C60	22-5878	.01 MFD DISC. 25V	C525	22-5878	1 MFD DISC. 500V	R482	63-1880	1M OHM			
C61	22-5879	.01 MFD DISC. 25V	C526	22-5879	1 MFD DISC. 500V	R483	63-1880	1.2K OHM			
C62	22-5880	.01 MFD DISC. 25V	C527	22-5880	1 MFD DISC. 500V	R484	63-1880	1.5K OHM			
C63	22-5881	.01 MFD DISC. 25V	C528	22-5881	1 MFD DISC. 500V	R485	63-1880	1.8K OHM			
C64	22-5882	.01 MFD DISC. 25V	C529	22-5882	1 MFD DISC. 500V	R486	63-1880	2.2K OHM			
C65	22-5883	.01 MFD DISC. 25V	C530	22-5883	1 MFD DISC. 500V	R487	63-1880	2.7K OHM			
C66	22-5884	.01 MFD DISC. 25V	C531	22-5884	1 MFD DISC. 500V	R488	63-1880	3.3K OHM			
C67	22-5885	.01 MFD DISC. 25V	C532	22-5885	1 MFD DISC. 500V	R489	63-1880	3.9K OHM			
C68	22-5886	.01 MFD DISC. 25V	C533	22-5886	1 MFD DISC. 500V	R490	63-1880	4.7K OHM			
C69	22-5887	.01 MFD DISC. 25V	C534	22-5887	1 MFD DISC. 500V	R491	63-1880	5.6K OHM			
C70	22-5888	.01 MFD DISC. 25V	C535	22-5888	1 MFD DISC. 500V	R492	63-1880	6.8K OHM			
C71	22-5889	.01 MFD DISC. 25V	C536	22-5889	1 MFD DISC. 500V	R493	63-1880	8.2K OHM			
C72	22-5890	.01 MFD DISC. 25V	C537	22-5890	1 MFD DISC. 500V	R494	63-1880	10K OHM			
C73	22-5891	.01 MFD DISC. 25V	C538	22-5891	1 MFD DISC. 500V	R495	63-1880	12K OHM			
C74	22-5892	.01 MFD DISC. 25V	C539	22-5892	1 MFD DISC. 500V	R496	63-1880	15K OHM			
C75	22-5893	.01 MFD DISC. 25V	C540	22-5893	1 MFD DISC. 500V	R497	63-1880	18K OHM			
C76	22-5894	.01 MFD DISC. 25V	C541	22-5894	1 MFD DISC. 500V	R498	63-1880	22K OHM			
C77	22-5895	.01 MFD DISC. 25V	C542	22-5895	1 MFD DISC. 500V	R499	63-1880	27K OHM			
C78	22-5896	.01 MFD DISC. 25V	C543	22-5896	1 MFD DISC. 500V	R500	63-1880	33K OHM			
C79	22-5897	.01 MFD DISC. 25V	C544	22-5897	1 MFD DISC. 500V	R501	63-1880	39K OHM			
C80	22-5898	.01 MFD DISC. 25V	C545	22-5898	1 MFD DISC. 500V	R502	63-1880	47K OHM			
C81	22-5899	.01 MFD DISC. 25V	C546	22-5899	1 MFD DISC. 500V	R503	63-1880	56K OHM			
C82	22-5900	.01 MFD DISC. 25V	C547	22-5900	1 MFD DISC. 500V	R504	63-1880	68K OHM			
C83	22-5901	.01 MFD DISC. 25V	C548	22-5901	1 MFD DISC. 500V	R505	63-1880	82K OHM			
C84	22-5902	.01 MFD DISC. 25V	C549	22-5902	1 MFD DISC. 500V	R506	63-1880	100K OHM			
C85	22-5903	.01 MFD DISC. 25V	C550	22-5903	1 MFD DISC. 500V	R507	63-1880	120K OHM			
C86	22-5904	.01 MFD DISC. 25V	C551	22-5904	1 MFD DISC. 500V	R508	63-1880	150K OHM			
C87	22-5905	.01 MFD DISC. 25V	C552	22-5905	1 MFD DISC. 500V	R509	63-1880	180K OHM			
C88	22-5906	.01 MFD DISC. 25V	C553	22-5906	1 MFD DISC. 500V	R510	63-1880	220K OHM			
C89	22-5907	.01 MFD DISC. 25V	C554	22-5907	1 MFD DISC. 500V	R511	63-1880	270K OHM			
C90	22-5908	.01 MFD DISC. 25V	C555	22-5908	1 MFD DISC. 500V	R512	63-1880	330K OHM			
C91	22-5909	.01 MFD DISC. 25V	C556	22-5909	1 MFD DISC. 500V	R513	63-1880	390K OHM			
C92	22-5910	.01 MFD DISC. 25V	C557	22-5910	1 MFD DISC. 500V	R514	63-1880	470K OHM			
C93	22-5911	.01 MFD DISC. 25V	C558	22-5911	1 MFD DISC. 500V	R515	63-1880	560K OHM			
C94	22-5912	.01 MFD DISC. 25V	C559	22-5912	1 MFD DISC. 500V	R516	63-1880	680K OHM			
C95	22-5913	.01 MFD DISC. 25V	C560	22-5913	1 MFD DISC. 500V	R517	63-1880	820K OHM			
C96	22-5914	.01 MFD DISC. 25V	C561	22-5914	1 MFD DISC. 500V	R518	63-1880	1M OHM			
C97	22-5915	.01 MFD DISC. 25V	C562	22-5915	1 MFD DISC. 500V	R519	63-1880	1.2K OH			

TRANSISTORS		
No	PART No	DESCRIPTION
Q1	I21-612	F M -R F
Q2	I21-613	F M CONVERTER
Q101	I21-714	A M CONVERTER
Q201	I21-614	A M -F M 1ST I F
Q202	I21-546	A M -F M 2ND I F
Q203	I21-546	F M 3RD I F
Q301	I21-639	COMP AMP
Q302	I21-639	I9KHZ AMP
Q303	I21-639	38KHZ
Q304	I21-639	STEREO IND.SW
Q401	I21-433	PRE-AMPLIFIER
Q402	I21-433	PRE-DRIVER
Q403	I21-706	DRIVER
Q404	I21-710	OUTPUT
Q405	I21-709	OUTPUT
Q451	I21-433	PRE-AMPLIFIER
Q452	I21-433	PRE-DRIVER
Q453	I21-706	DRIVER
Q454	I21-710	OUTPUT
Q455	I21-709	OUTPUT



TEST POINTS	
A	F M ANT INPUT
C	REVERSE AGC
D	1ST F M I F INPUT
E	2ND F M I F INPUT
F	3RD F M I F INPUT
FI	RATIO DETECTOR INPUT
G	3RD F M OUTPUT
H	F M DETECTOR OUTPUT
J	F M B+
K	A M B+
L	A M R F & I F INPUT
M	67KHZ REJECTION & M X PHASING
N	DOUBLER OUTPUT DC & 38KHZ
P	M X PHASING
T	M X DISABLE
H+	RATIO DET PRIMARY TUNING

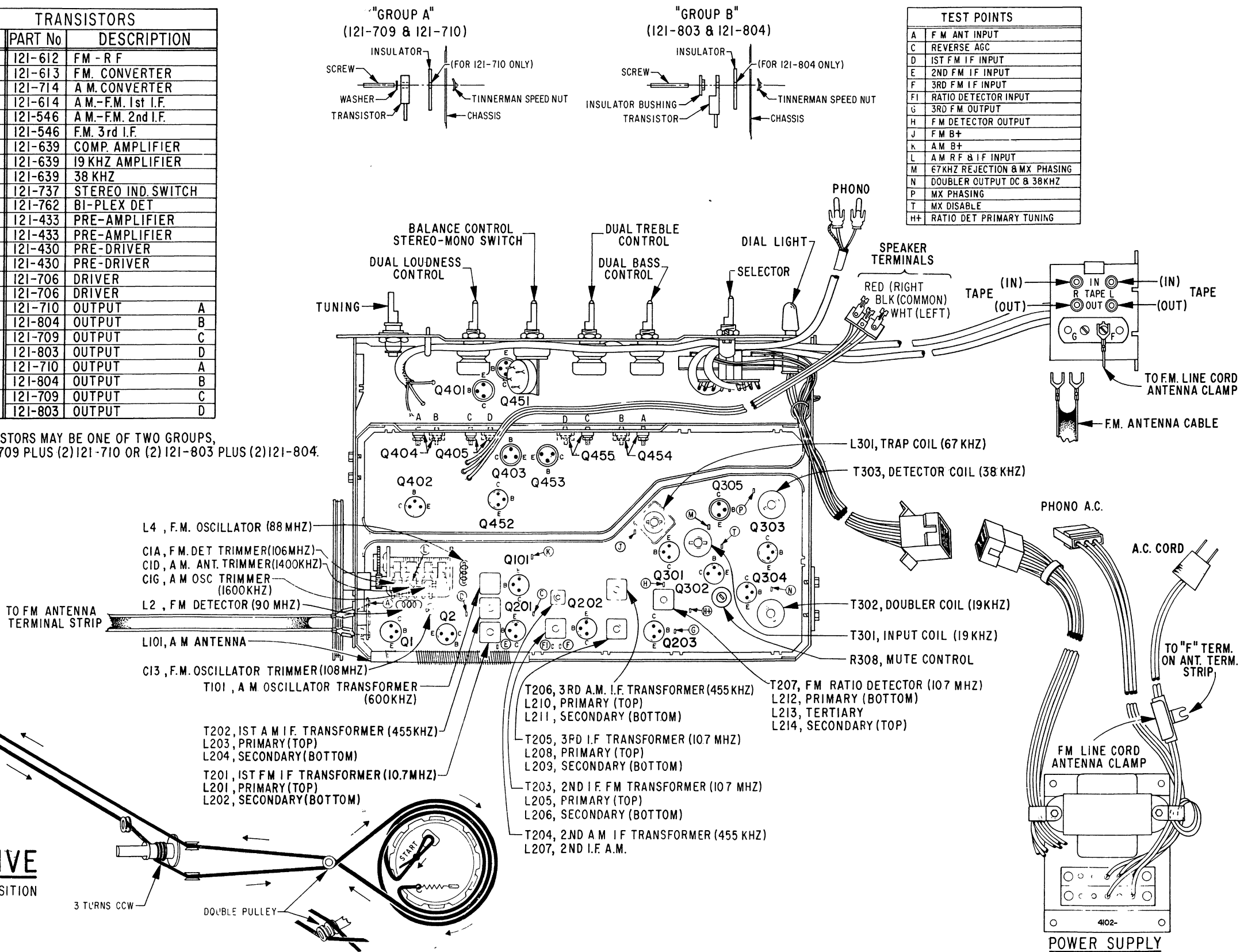


20AT31Z - CHASSIS LAYOUT

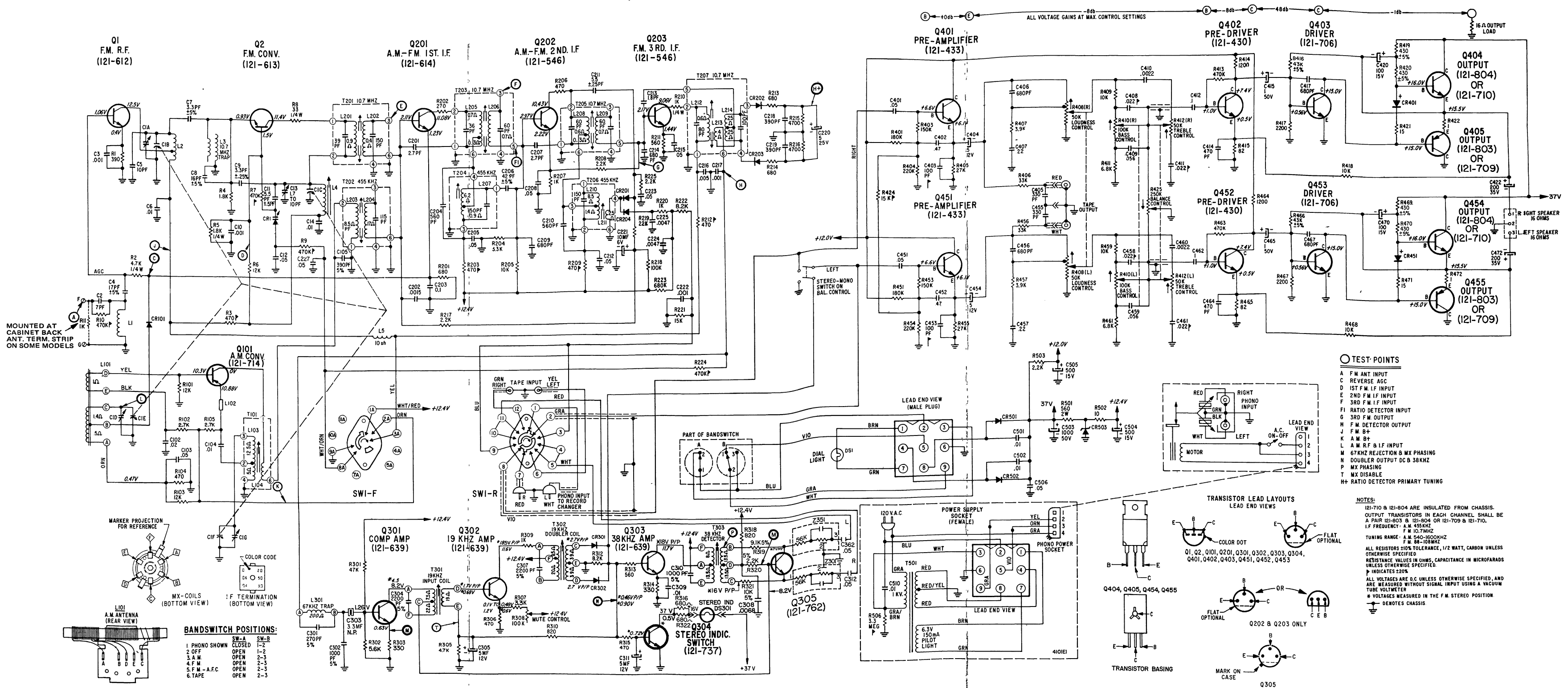
TRANSISTORS		
No.	PART No	DESCRIPTION
Q1	I21-612	FM - R F
Q2	I21-613	FM. CONVERTER
Q101	I21-714	A.M. CONVERTER
Q201	I21-614	A.M.-F.M. 1st I.F.
Q202	I21-546	A.M.-F.M. 2nd I.F.
Q203	I21-546	F.M. 3rd I.F.
Q301	I21-639	COMP. AMPLIFIER
Q302	I21-639	19 KHZ AMPLIFIER
Q303	I21-639	38 KHZ
Q304	I21-737	STEREO IND. SWITCH
Q305	I21-762	BI- PLEX DET
Q401	I21-433	PRE-AMPLIFIER
Q451	I21-433	PRE-AMPLIFIER
Q402	I21-430	PRE-DRIVER
Q452	I21-430	PRE-DRIVER
Q403	I21-706	DRIVER
Q453	I21-706	DRIVER
* Q404	I21-710	OUTPUT A
	I21-804	OUTPUT B
* Q405	I21-709	OUTPUT C
	I21-803	OUTPUT D
* Q454	I21-710	OUTPUT A
	I21-804	OUTPUT B
* Q455	I21-709	OUTPUT C
	I21-803	OUTPUT D

* OUTPUT TRANSISTORS MAY BE ONE OF TWO GROUPS, EITHER (2) I21-709 PLUS (2) I21-710 OR (2) I21-803 PLUS (2) I21-804.

DIAL CORD DRIVE
SHOWN IN FULL CLOCKWISE POSITION



21BT30 - CHASSIS LAYOUT

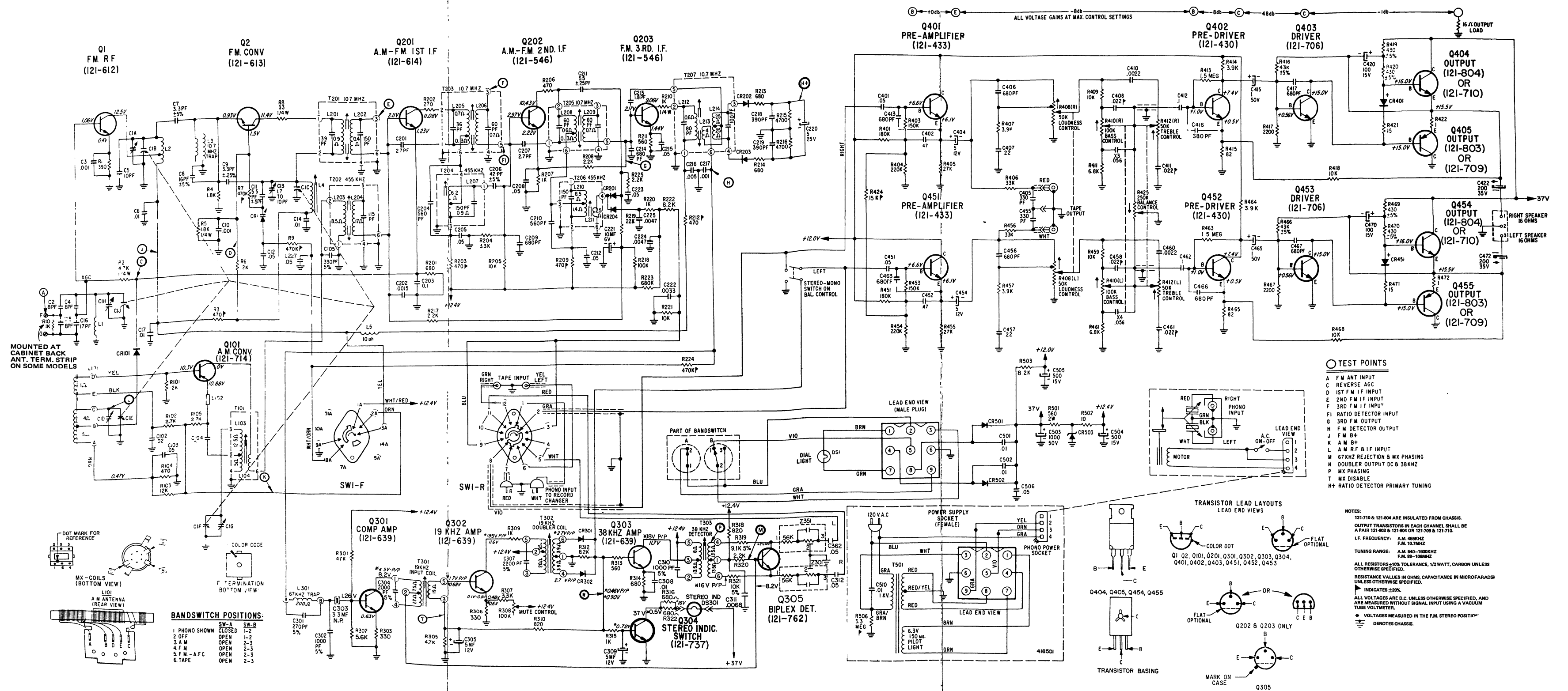


TEST POINTS

- A FM ANT INPUT
- C REVERSE AGC
- D 1ST F.M. I.F. INPUT
- E 2ND F.M. I.F. INPUT
- F 3RD F.M. I.F. INPUT
- F1 RATIO DETECTOR INPUT
- G 3RD F.M. OUTPUT
- H F.M. DETECTOR OUTPUT
- J F.M. B+
- K A.M. B+
- L A.M. R.F. & I.F. INPUT
- M 67KHZ REJECTION & MX PHASING
- N DOUBLER OUTPUT DC 38KHZ
- P MX PHASING
- T MX DISABLE
- H+ RATIO DETECTOR PRIMARY TUNING

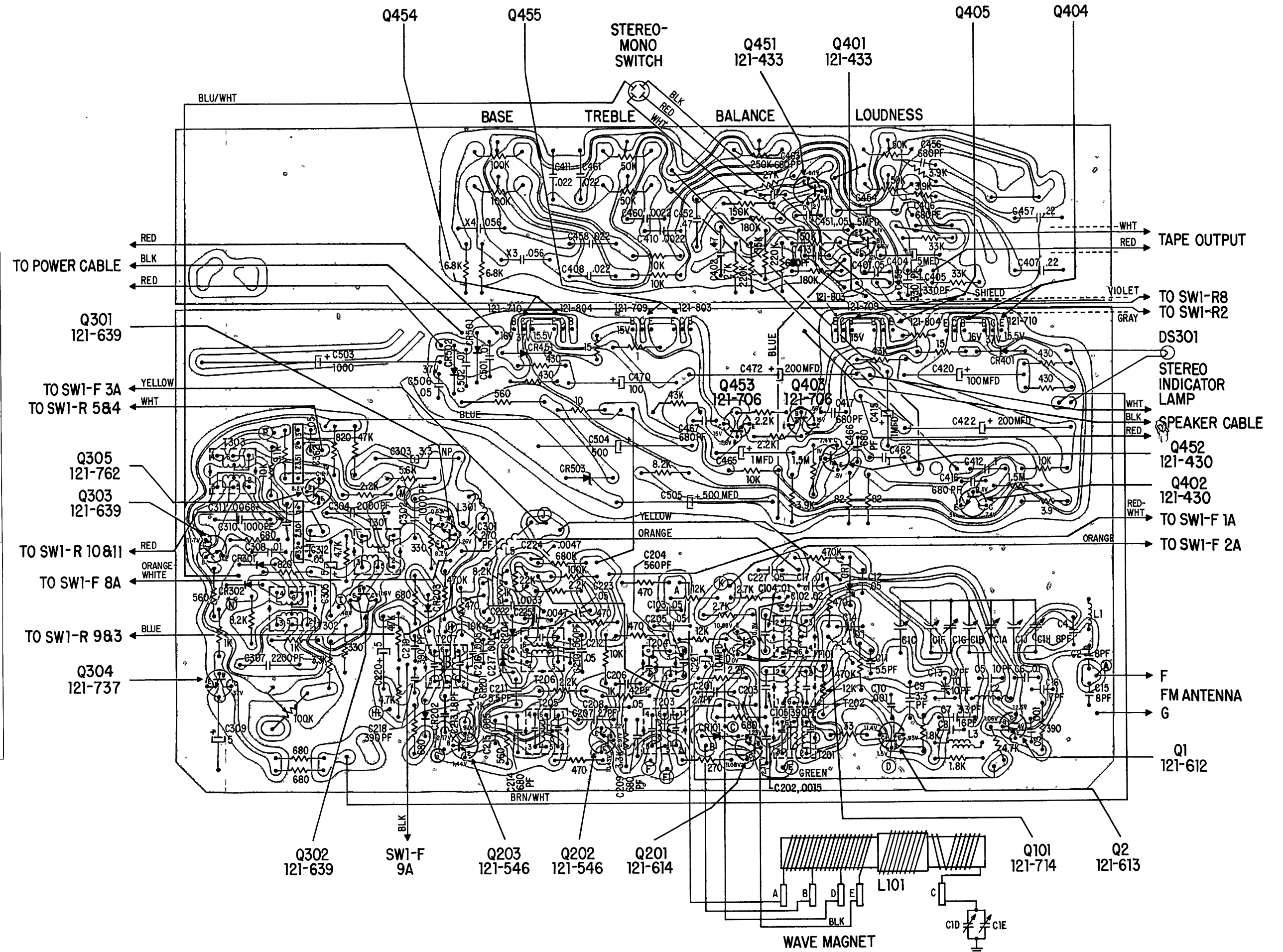
NOTES:

121-710 & 121-804 ARE INSULATED FROM CHASSIS.
 OUTPUT TRANSISTORS IN EACH CHANNEL SHALL BE A PAIR 121-803 & 121-804 OR 121-709 & 121-710.
 I.F. FREQUENCY: A.M. 455KHZ
 F.M. 10.7MHZ
 TUNING RANGE: A.M. 540-1600KHZ
 F.M. 88-108MHZ
 ALL RESISTORS 50% TOLERANCE, 1/2 WATT, CARBON UNLESS OTHERWISE SPECIFIED.
 RESISTANCE VALUES IN OHMS, CAPACITANCE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
 * INDICATES ±20%
 ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED, AND ARE MEASURED WITHOUT SIGNAL INPUT USING A VACUUM TUBE VOLTMETER
 * VOLTAGES MEASURED IN THE F.M. STEREO POSITION
 ⊕ DENOTES CHASSIS



21BT34 - SCHEMATIC

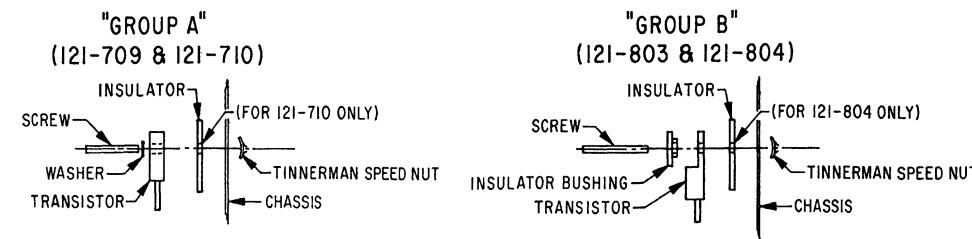
LEGEND CHASSIS 21BT34									
ITEM NO.	PART NO.	DESCRIPTION	CASE NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION	
C1A		F.M. DETECTOR TRIMMER	C455	22-3259	320 PF DISC. 500V	R412R	63-7681	50K DUAL TREBLE CONTROL	
C1B		F.M. DETECTOR TUNING	C456	22-3259	680 PF DISC. 500V	R412L			
C1C		A.M. OSCILLATOR TUNING	C457	22-4663	1MFD 10K. 50V	R413	63-1818	1.5 MEGOHM	
C1D		A.M. ANTENNA TRIMMER	C458	22-5814	.002 MFD 20K. 100V	R414	63-1810	3.9K OHM	
C1E	22-6137	A.M. OSCILLATOR TUNING	C459	22-5814	.002 MFD 20K. 100V	R415	63-1810	3.9K OHM	
C1F		A.M. OSCILLATOR TUNING	C460	22-18	.0022 MFD DISC. 500V	R416	63-1816	43K OHM	
C1G		A.M. OSCILLATOR TRIMMER	C461	22-5814	.002 MFD 20K. 100V	R417	63-1816	43K OHM	
C1H		F.M. ANTENNA TRIMMER	C462	22-3652	1 MFD DISC. 500V	R418	63-1827	10K OHM	
C1J		F.M. ANTENNA TUNING	C463	22-5882	680 PF DISC. 500V	R419	63-1769	430 OHM .5W	
C2	22-9481	1MFD ELECTROLYTIC 50V	C464	22-3652	1 MFD ELECTROLYTIC 50V	R420	63-1769	10 OHM	
C3	22-2729	.001 MFD DISC. 25V	C465	22-5882	1 MFD ELECTROLYTIC 50V	R421	63-1769	10 OHM	
C4	22-2729	.001 MFD DISC. 25V	C466	22-5882	1 MFD ELECTROLYTIC 50V	R422	63-1769	10 OHM	
C5	22-3675	10PF DISC. 50V	C467	22-3652	680 PF DISC. 500V	R423	63-1835	18K OHM .5W	
C6	22-3383	.01 MFD DISC. 25V	C470	22-4568	100 MFD ELECTROLYTIC 15V	R424	63-1835	18K OHM .5W	
C7	22-3383	.01 MFD DISC. 25V	C471	22-4568	100 MFD ELECTROLYTIC 15V	R425	63-1835	18K OHM .5W	
C8	22-3558	16PF DISC. 50V	C481	22-4568	100 MFD ELECTROLYTIC 15V	R426	63-1835	18K OHM .5W	
C9	22-2729	.001 MFD DISC. 25V	C482	22-4568	100 MFD ELECTROLYTIC 15V	R427	63-1835	18K OHM .5W	
C10	22-2729	.001 MFD DISC. 25V	C483	22-4568	100 MFD ELECTROLYTIC 15V	R428	63-1835	18K OHM .5W	
C11	22-3383	.01 MFD DISC. 25V	C484	22-4568	100 MFD ELECTROLYTIC 15V	R429	63-1835	18K OHM .5W	
C12	22-3383	.01 MFD DISC. 25V	C485	22-4568	100 MFD ELECTROLYTIC 15V	R430	63-1835	18K OHM .5W	
C13	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C506	22-3672	.05 MFD 100V	R431	63-1810	3.9K OHM	
C14	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C507	22-4601	1 MFD DISC. CAP. 1K.V.	R432	63-1810	3.9K OHM	
C15	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C508	22-4601	1 MFD DISC. CAP. 1K.V.	R433	63-1810	3.9K OHM	
C16	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C509	22-4601	1 MFD DISC. CAP. 1K.V.	R434	63-1810	3.9K OHM	
C17	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C510	22-4601	1 MFD DISC. CAP. 1K.V.	R435	63-1810	3.9K OHM	
C18	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C511	22-4601	1 MFD DISC. CAP. 1K.V.	R436	63-1810	3.9K OHM	
C19	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C512	22-4601	1 MFD DISC. CAP. 1K.V.	R437	63-1810	3.9K OHM	
C20	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C513	22-4601	1 MFD DISC. CAP. 1K.V.	R438	63-1810	3.9K OHM	
C21	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C514	22-4601	1 MFD DISC. CAP. 1K.V.	R439	63-1810	3.9K OHM	
C22	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C515	22-4601	1 MFD DISC. CAP. 1K.V.	R440	63-1810	3.9K OHM	
C23	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C516	22-4601	1 MFD DISC. CAP. 1K.V.	R441	63-1810	3.9K OHM	
C24	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C517	22-4601	1 MFD DISC. CAP. 1K.V.	R442	63-1810	3.9K OHM	
C25	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C518	22-4601	1 MFD DISC. CAP. 1K.V.	R443	63-1810	3.9K OHM	
C26	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C519	22-4601	1 MFD DISC. CAP. 1K.V.	R444	63-1810	3.9K OHM	
C27	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C520	22-4601	1 MFD DISC. CAP. 1K.V.	R445	63-1810	3.9K OHM	
C28	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C521	22-4601	1 MFD DISC. CAP. 1K.V.	R446	63-1810	3.9K OHM	
C29	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C522	22-4601	1 MFD DISC. CAP. 1K.V.	R447	63-1810	3.9K OHM	
C30	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C523	22-4601	1 MFD DISC. CAP. 1K.V.	R448	63-1810	3.9K OHM	
C31	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C524	22-4601	1 MFD DISC. CAP. 1K.V.	R449	63-1810	3.9K OHM	
C32	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C525	22-4601	1 MFD DISC. CAP. 1K.V.	R450	63-1810	3.9K OHM	
C33	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C526	22-4601	1 MFD DISC. CAP. 1K.V.	R451	63-1810	3.9K OHM	
C34	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C527	22-4601	1 MFD DISC. CAP. 1K.V.	R452	63-1810	3.9K OHM	
C35	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C528	22-4601	1 MFD DISC. CAP. 1K.V.	R453	63-1810	3.9K OHM	
C36	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C529	22-4601	1 MFD DISC. CAP. 1K.V.	R454	63-1810	3.9K OHM	
C37	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C530	22-4601	1 MFD DISC. CAP. 1K.V.	R455	63-1810	3.9K OHM	
C38	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C531	22-4601	1 MFD DISC. CAP. 1K.V.	R456	63-1810	3.9K OHM	
C39	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C532	22-4601	1 MFD DISC. CAP. 1K.V.	R457	63-1810	3.9K OHM	
C40	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C533	22-4601	1 MFD DISC. CAP. 1K.V.	R458	63-1810	3.9K OHM	
C41	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C534	22-4601	1 MFD DISC. CAP. 1K.V.	R459	63-1810	3.9K OHM	
C42	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C535	22-4601	1 MFD DISC. CAP. 1K.V.	R460	63-1810	3.9K OHM	
C43	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C536	22-4601	1 MFD DISC. CAP. 1K.V.	R461	63-1810	3.9K OHM	
C44	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C537	22-4601	1 MFD DISC. CAP. 1K.V.	R462	63-1810	3.9K OHM	
C45	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C538	22-4601	1 MFD DISC. CAP. 1K.V.	R463	63-1810	3.9K OHM	
C46	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C539	22-4601	1 MFD DISC. CAP. 1K.V.	R464	63-1810	3.9K OHM	
C47	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C540	22-4601	1 MFD DISC. CAP. 1K.V.	R465	63-1810	3.9K OHM	
C48	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C541	22-4601	1 MFD DISC. CAP. 1K.V.	R466	63-1810	3.9K OHM	
C49	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C542	22-4601	1 MFD DISC. CAP. 1K.V.	R467	63-1810	3.9K OHM	
C50	22-4895	1.7 TO 10PF CERAMIC TRIMMER	C543	22-4601	1 MFD DISC. CAP. 1K.V.	R468	63-1810	3.9K OHM	
C51	22-3324	.005 MFD DISC. 25V	R469	63-1762	10K OHM	X1	100-249	PILOT LIGHT .5W .18V	
C52	22-3324	.005 MFD DISC. 25V	R470	63-1762	10K OHM	X2	100-249	PILOT LIGHT .5W .18V	
C53	22-3324	.005 MFD DISC. 25V	R471	63-1762	10K OHM	X3	100-249	PILOT LIGHT .5W .18V	
C54	22-3324	.005 MFD DISC. 25V	R472	63-1762	10K OHM	X4	100-249	PILOT LIGHT .5W .18V	
C55	22-3324	.005 MFD DISC. 25V	R473	63-1762	10K OHM	X5	100-249	PILOT LIGHT .5W .18V	
C56	22-3324	.005 MFD DISC. 25V	R474	63-1762	10K OHM	X6	100-249	PILOT LIGHT .5W .18V	
C57	22-3324	.005 MFD DISC. 25V	R475	63-1762	10K OHM	X7	100-249	PILOT LIGHT .5W .18V	
C58	22-3324	.005 MFD DISC. 25V	R476	63-1762	10K OHM	X8	100-249	PILOT LIGHT .5W .18V	
C59	22-3324	.005 MFD DISC. 25V	R477	63-1762	10K OHM	X9	100-249	PILOT LIGHT .5W .18V	
C60	22-3324	.005 MFD DISC. 25V	R478	63-1762	10K OHM	X10	100-249	PILOT LIGHT .5W .18V	
C61	22-3324	.005 MFD DISC. 25V	R479	63-1762	10K OHM	X11	100-249	PILOT LIGHT .5W .18V	
C62	22-3324	.005 MFD DISC. 25V	R480	63-1762	10K OHM	X12	100-249	PILOT LIGHT .5W .18V	
C63	22-3324	.005 MFD DISC. 25V	R481	63-1762	10K OHM	X13	100-249	PILOT LIGHT .5W .18V	
C64	22-3324	.005 MFD DISC. 25V	R482	63-1762	10K OHM	X14	100-249	PILOT LIGHT .5W .18V	
C65	22-3324	.005 MFD DISC. 25V	R483	63-1762	10K OHM	X15	100-249	PILOT LIGHT .5W .18V	
C66	22-3324	.005 MFD DISC. 25V	R484	63-1762	10K OHM	X16	100-249	PILOT LIGHT .5W .18V	
C67	22-3324	.005 MFD DISC. 25V	R485	63-1762	10K OHM	X17	100-249	PILOT LIGHT .5W .18V	
C68	22-3324	.005 MFD DISC. 25V	R486	63-1762	10K OHM	X18	100-249	PILOT LIGHT .5W .18V	
C69	22-3324	.005 MFD DISC. 25V	R487	63-1762	10K OHM	X19	100-249	PILOT LIGHT .5W .18V	
C70	22-3324	.005 MFD DISC. 25V	R488	63-1762	10K OHM	X20	100-249	PILOT LIGHT .5W .18V	
C71	22-3324	.005 MFD DISC. 25V	R489	63-1762	10K OHM	X21	100-249	PILOT LIGHT .5W .18V	
C72	22-3324	.005 MFD DISC. 25V	R490	63-1762	10K OHM	X22	100-249	PILOT LIGHT .5W .18V	
C73	22-3324	.005 MFD DISC. 25V	R491	63-1762	10K OHM	X23	100-249	PILOT LIGHT .5W .18V	
C74	22-3324	.005 MFD DISC. 25V	R492	63-1762	10K OHM	X24	100-249	PILOT LIGHT .5W .18V	
C75	22-3324	.005 MFD DISC. 25V	R493	63-1762	10K OHM	X25	100-249	PILOT LIGHT .5W .18V	
C76	22-3324	.005 MFD DISC. 25V	R494	63-1762	10K OHM	X26	100-249	PILOT LIGHT .5W .18V	
C77	22-3324	.005 MFD DISC. 25V	R495	63-1762	10K OHM	X27	100-249	PILOT LIGHT .5W .18V	
C78	22-3324	.005 MFD DISC. 25V	R496	63-1762	10K OHM	X28	100-249	PILOT LIGHT .5W .18V	
C79	22-3324	.005 MFD DISC. 25V	R497	63-1762	10K OHM	X29	100-249	PILOT LIGHT .5W .18V	
C80	22-3324	.005 MFD DISC. 25V	R498	63-1762	10K OHM	X30	100-249	PILOT LIGHT .5W .18V	
C81	22-3324	.005 MFD DISC. 25V	R499	63-1762	10K OHM	X31	100-249	PILOT LIGHT .5W .18V	
C82	22-3324	.005 MFD DISC. 25V	R500	63-1762	10K OHM	X32	100-249	PILOT LIGHT .5W .18V	
C83	22-3324	.005 MFD DISC. 25V	R501	63-1762	10K OHM	X33	100-249	PILOT LIGHT .5W .18V	
C84	22-3324	.005 MFD DISC. 25V	R502	63-1762	10K OHM	X34	100-249	PILOT LIGHT .5W .18V	
C85	22-3324	.005 MFD DISC. 25V	R503	63-1762	10K OHM	X35	100-249	PILOT LIGHT .5W .18V	
C86	22-3324	.005 MFD DISC. 25V	R504	63-1762	10K OHM	X36	100-249	PILOT LIGHT .5W .18V	
C87	22-3324	.005 MFD DISC. 25V	R505	63-1762	10K OHM	X37	100-249	PILOT LIGHT .5W .18V	
C88	22-3324	.005 MFD DISC. 25V	R506	63-1762	10K OHM	X38	100-249	PILOT LIGHT .5W .18V	
C89	22-3324	.005 MFD DISC. 25V	R507	63-1762	10K OHM	X39	100-249	PILOT LIGHT .5W .18V	
C90	22-3324	.005 MFD DISC. 25V	R508	63-1762	10K OHM	X40	100-249	PILOT LIGHT .5W .18V	
C91	22-3324	.005 MFD DISC. 25V	R509	63-1762	10K OHM	X41	100-249	PILOT LIGHT .5W .18V	
C92	22-3324	.005 MFD DISC. 25V	R510	63-1762	10K OHM	X42	100-249	PILOT LIGHT .5W .18V	
C93	22-3324	.005 MFD DISC. 25V	R511	63-1762	10K OHM	X43	100-249	PILOT LIGHT .5W .18V	
C94	22-3324	.005 MFD DISC. 25V	R512	63-1762	10K OHM	X44	100-249	PILOT LIGHT .5W .18V	
C95	22-3324	.005 MFD DISC. 25V	R513	63-1762	10K OHM	X45	100-249	PILOT LIGHT .5W .18V	
C96	22-3324	.005 MFD DISC. 25V	R514	63-1762	10K OHM	X46	100-249	PILOT LIGHT .5W .18V	
C97	22-3324	.005 MFD DISC. 25V	R515	63-1762	10K OHM	X47	100-249	PILOT LIGHT .5W .18V	
C98	22-3324	.005 MFD DISC. 25V	R516	63-1762	10K OHM	X48	100-249	PILOT LIGHT .5W .18V	
C99	22-3324	.005 MFD DISC. 25V	R517	63-1762	10K OHM	X49	100-249	PILOT LIGHT .5W .18V	
C100	22-3324	.005 MFD DISC. 25V	R518	63-1762	10K OHM	X50	100-249	PILOT LIGHT .5W .18V	
C101	22-3324	.005 MFD DISC. 25V	R519	63-1762	10K OHM	X51	100-249	PILOT LIGHT .5W .18V	
C102	22-3324	.005 MFD DISC. 25V	R520	63-1762	10K OHM	X52	100-249	PILOT LIGHT .5W .18V	
C103	22-3324	.005 MFD DISC. 25V	R521	63-1762	10K OHM	X53	100-249	PILOT LIGHT .5W .18V	
C104	22-3324	.005 MFD DISC. 25V	R522	63-1762	10K OHM	X54	100-249	PILOT LIGHT .5W .18V	
C105	22-3324	.005 MFD DISC. 25V	R523	63-1762	10K OHM	X55	100-249	PILOT LIGHT .5W .18V	
C106	22-3324	.005 MFD DISC. 25V	R524	63-1762	10K OHM	X56	100-249	PILOT LIGHT .5W .18V	
C107	22-3324	.005 MFD DISC. 25V	R525	63-1762	10K OHM	X57	100-249	PILOT LIGHT .5W .18V	
C108	22-3324	.005 MFD DISC. 25V	R526	63-1762	10K OHM	X58	100-249	PILOT LIGHT .5W .18V	
C109	22-3324								



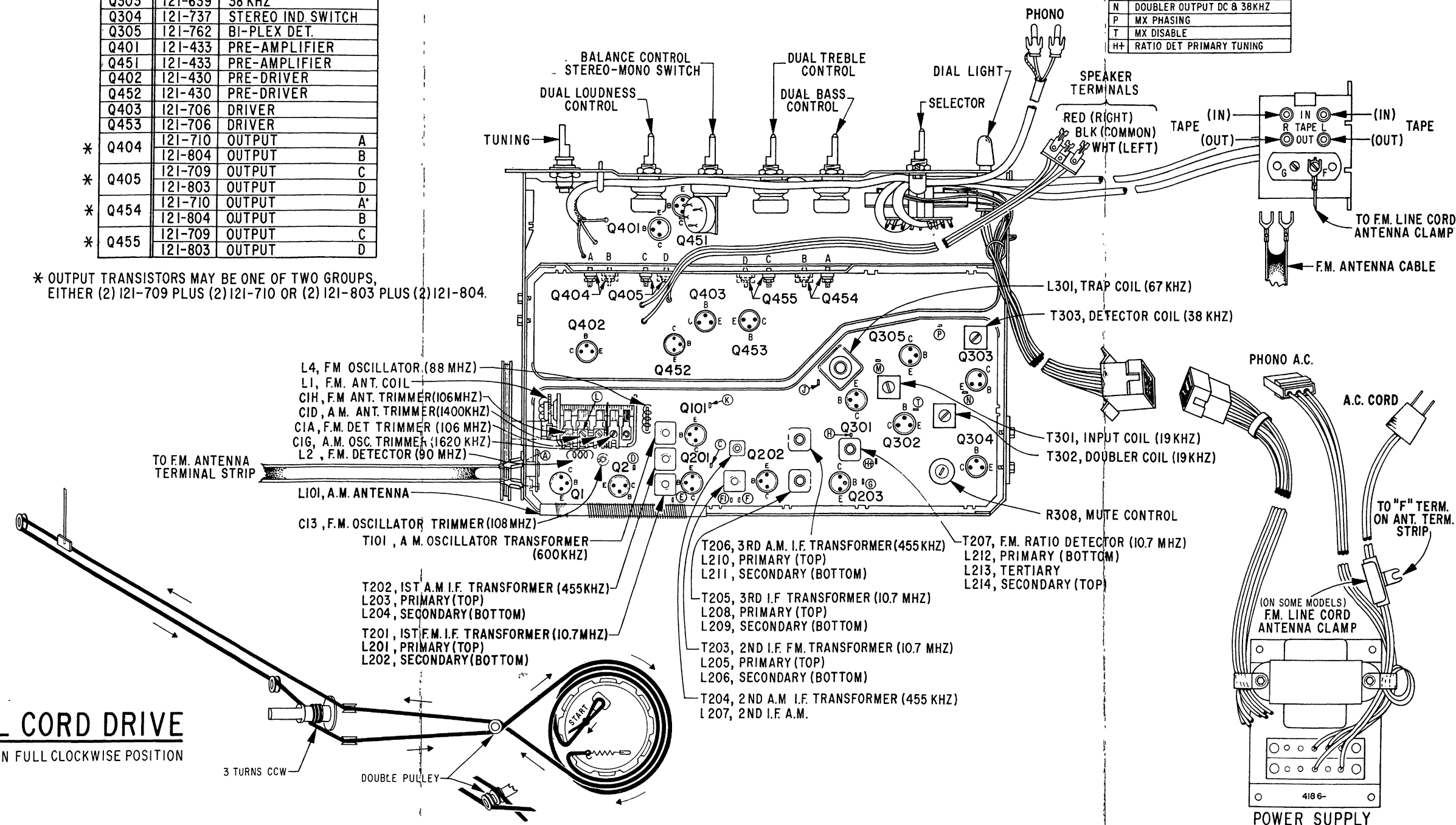
21BT34 – CHASSIS LAYOUT AND COMPONENTS AS VIEWED FROM FOIL SIDE

TRANSISTORS		
No.	PART No	DESCRIPTION
Q1	I21-612	FM -R F.
Q2	I21-613	FM. CONVERTER
Q101	I21-714	A.M. CONVERTER
Q201	I21-614	A.M.-FM. 1st I.F.
Q202	I21-546	A.M.-FM. 2nd I.F.
Q203	I21-546	F.M. 3rd I.F.
Q301	I21-639	COMP. AMPLIFIER
Q302	I21-639	19 KHZ AMPLIFIER
Q303	I21-639	38 KHZ
Q304	I21-737	STEREO IND. SWITCH
Q305	I21-762	BI- PLEX DET.
Q401	I21-433	PRE-AMPLIFIER
Q451	I21-433	PRE-AMPLIFIER
Q402	I21-430	PRE-DRIVER
Q452	I21-430	PRE-DRIVER
Q403	I21-706	DRIVER
Q453	I21-706	DRIVER
* Q404	I21-710	OUTPUT A
	I21-804	OUTPUT B
* Q405	I21-709	OUTPUT C
	I21-803	OUTPUT D
* Q454	I21-710	OUTPUT A*
	I21-804	OUTPUT B
* Q455	I21-709	OUTPUT C
	I21-803	OUTPUT D

* OUTPUT TRANSISTORS MAY BE ONE OF TWO GROUPS, EITHER (2) I21-709 PLUS (2) I21-710 OR (2) I21-803 PLUS (2) I21-804.



TEST POINTS	
A	F M ANT INPUT
C	REVERSE AGC
D	1ST F.M. I.F. INPUT
E	2ND F.M. I.F. INPUT
F	3RD F.M. I.F. INPUT
FI	RATIO DETECTOR INPUT
G	3RD F.M. OUTPUT
H	F.M. DETECTOR OUTPUT
J	F.M. B+
K	A.M. B+
L	A.M. R.F. & I.F. INPUT
M	67KHZ REJECTION & MX PHASING
N	DOUBLER OUTPUT DC & 38KHZ
P	MX PHASING
T	MX DISABLE
H+	RATIO DET PRIMARY TUNING



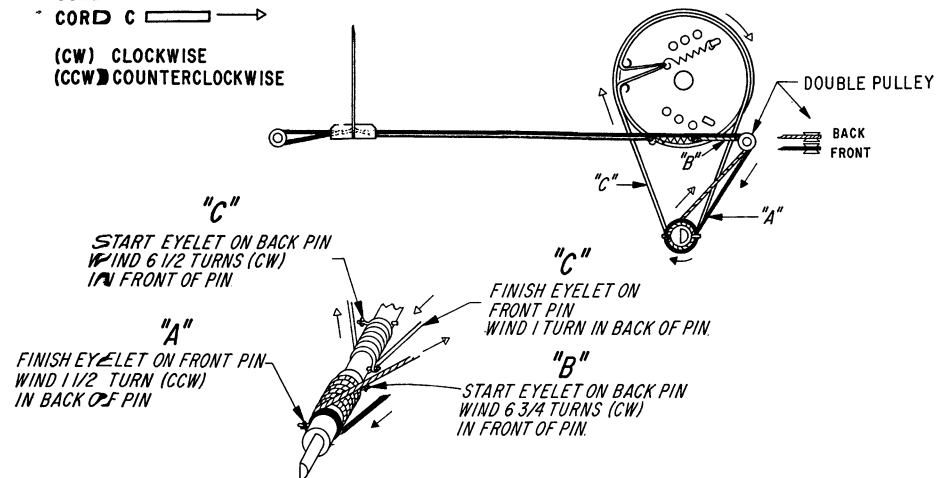
21BT34 - CHASSIS LAYOUT

CORD A

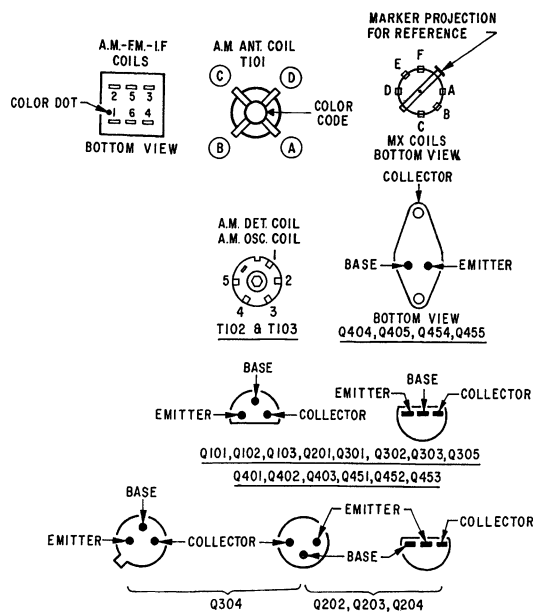
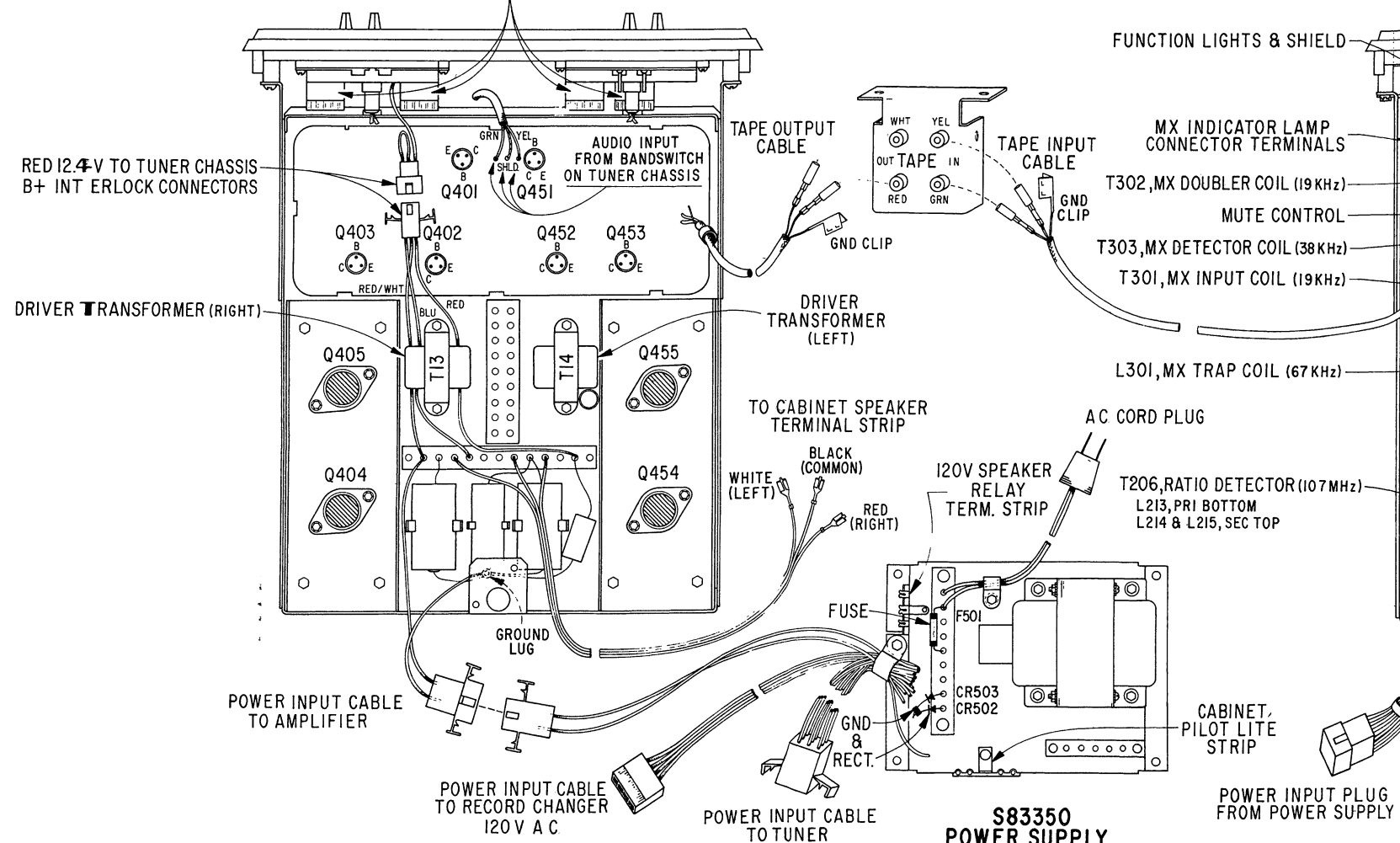
CORD B

CORD C

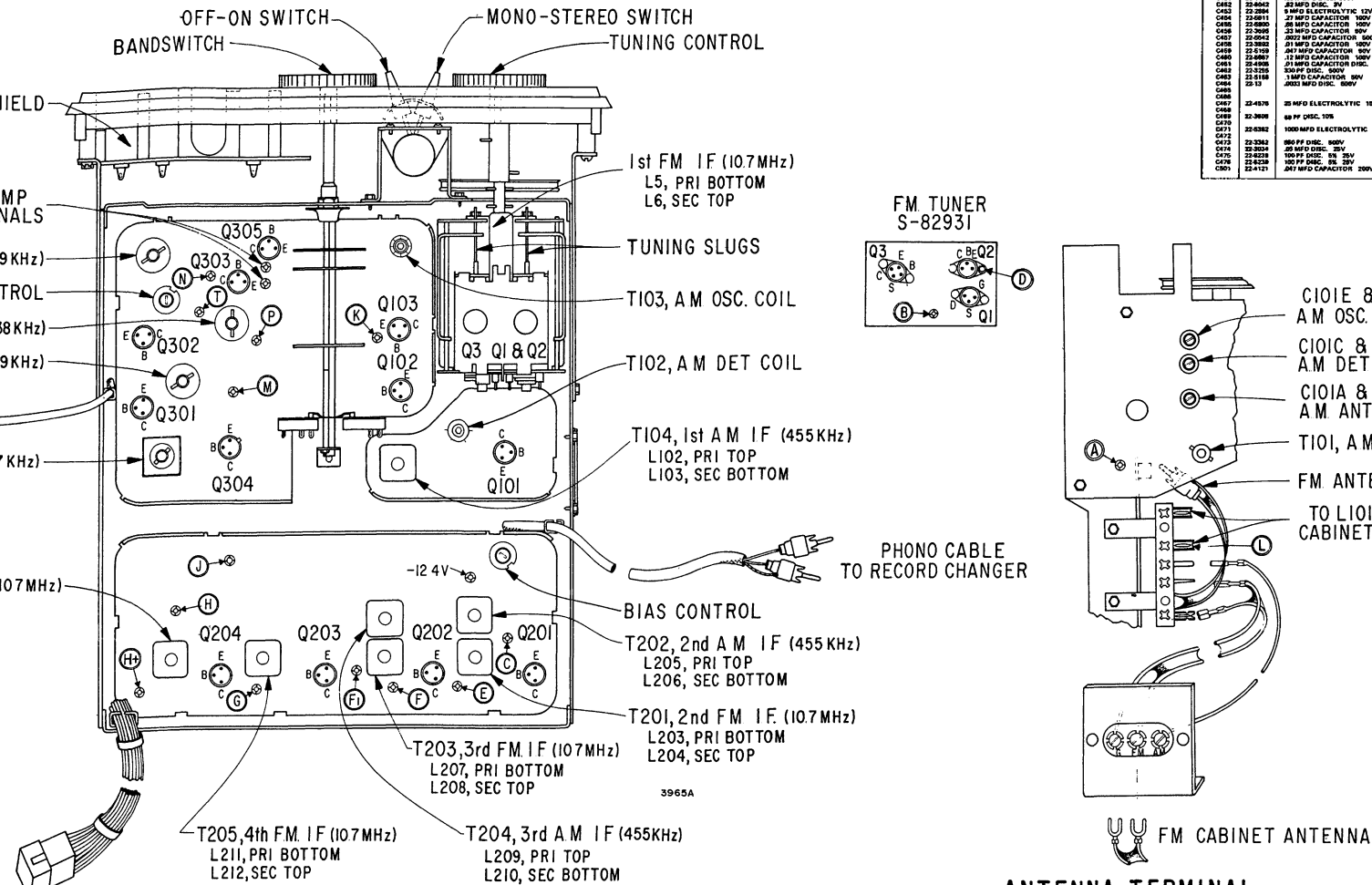
(CW) CLOCKWISE
(CCW) COUNTERCLOCKWISE



SLIDE CONTROL
EDGE PC CONNECTORS



OFF-ON SWITCH MONO-STEREO SWITCH
BANDSWITCH TUNING CONTROL

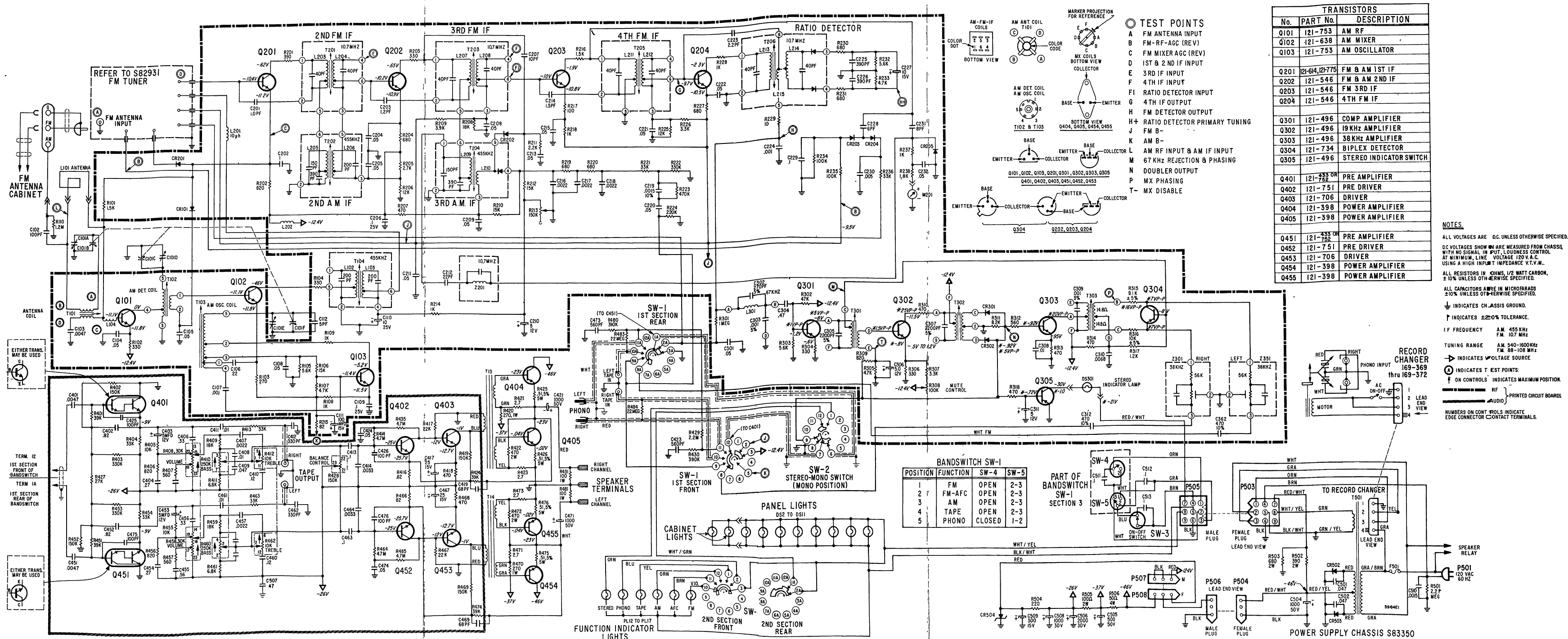


◎ TEST POINTS

- A FM ANTENNA INPUT
- B FM -R.F.-A.G.C. (REV)
- C FM. MIXER A.G.C. (REV)
- D 1st & 2nd I.F INPUT
- E 3rd I.F INPUT
- F 4th I.F INPUT
- F1 RATIO DETECTOR INPUT
- G 4th I.F OUTPUT
- H FM DETECTOR OUTPUT
- H+ RATIO DETECTOR PRIMARY TUNING
- J FM. B-
- K A.M. B-
- L A.M R.F INPUT & A.M I.F INPUT
- M 67 KHz REJECTION & PHASING
- N DOUBLER OUTPUT
- P MX PHASING
- T MX DISARIF

TRANSISTORS		
No.	PART No.	DESCRIPTION
Q1	121-731	FM. R.F.
Q2	121-732	FM. MIXER
Q3	121-432	FM. OSCILLATOR
Q101	121-753	A.M. R.F.
Q102	121-638	A.M. MIXER
Q103	121-753	A.M. OSCILLATOR
Q201	121-614	FM & A.M. 1st IF
Q202		FM & A.M. 2nd IF
Q203	121-546	FM 3rd IF
Q204		4th FM. IF
Q301		COMP AMPLIFIER
Q302	121-496	19KHz AMPLIFIER
Q303		38KHz AMPLIFIER
Q304	121-734	BIPLEX DETECTOR
Q305	121-496	STEREO INDICATOR SWITCH
Q401	121-752	PRE AMPLIFIER
Q402	121-751	PRE DRIVER
Q403	121-706	DRIVER
Q404		
Q405	121-398	POWER AMPLIFIER
Q451	121-752	PRE AMPLIFIER
Q452	121-751	PRE DRIVER
Q453	121-706	DRIVER
Q454		
Q455	121-398	POWER AMPLIFIER

LEONID SCALE 25A726								
ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
C010A		AMP ANTENNA TRIGGER	C002	25A121	AMP MFG CAPACITOR .20V	M468	63-1192	200 OHM RESISTOR
C010B		AMP ANTENNA TRIGGER	C003	25A122	AMP MFG CAPACITOR .20V	M469	63-1193	200 OHM RESISTOR
C24-006		VARIABLE CAPACITOR	C004	25A123	AMP MFG CAPACITOR .20V	M470	63-1194	200 OHM RESISTOR
C010C		AMP OSCILLATOR TRIGGER	C005	25A124	AMP MFG CAPACITOR .20V	M471	63-1195	200 OHM RESISTOR
C010D		AMP OSCILLATOR TRIGGER	C006	25A125	AMP MFG CAPACITOR .20V	M472	63-1196	200 OHM RESISTOR
C010E	25A206	AMP MFG DISC .20V	C007	25A126	AMP MFG CAPACITOR .20V	M473	63-1197	200 OHM RESISTOR
C010F	25A206	AMP MFG DISC .20V	C008	25A127	AMP MFG CAPACITOR .20V	M474	63-1198	200 OHM RESISTOR
C010G	25A206	AMP MFG DISC .20V	C009	25A128	AMP MFG CAPACITOR .20V	M475	63-1199	200 OHM RESISTOR
C010H	25A206	AMP MFG DISC .20V	C010	25A129	AMP MFG CAPACITOR .20V	M476	63-1200	200 OHM RESISTOR
C010I	25A206	AMP MFG DISC .20V	C011	25A130	AMP MFG CAPACITOR .20V	M477	63-1201	200 OHM RESISTOR
C010J	25A206	AMP MFG DISC .20V	C012	25A131	AMP MFG CAPACITOR .20V	M478	63-1202	200 OHM RESISTOR
C010K	25A206	AMP MFG DISC .20V	C013	25A132	AMP MFG CAPACITOR .20V	M479	63-1203	200 OHM RESISTOR
C010L	25A206	AMP MFG DISC .20V	C014	25A133	AMP MFG CAPACITOR .20V	M480	63-1204	200 OHM RESISTOR
C010M	25A206	AMP MFG DISC .20V	C015	25A134	AMP MFG CAPACITOR .20V	M481	63-1205	200 OHM RESISTOR
C010N	25A206	AMP MFG DISC .20V	C016	25A135	AMP MFG CAPACITOR .20V	M482	63-1206	200 OHM RESISTOR
C010O	25A206	AMP MFG DISC .20V	C017	25A136	AMP MFG CAPACITOR .20V	M483	63-1207	200 OHM RESISTOR
C010P	25A206	AMP MFG DISC .20V	C018	25A137	AMP MFG CAPACITOR .20V	M484	63-1208	200 OHM RESISTOR
C010Q	25A206	AMP MFG DISC .20V	C019	25A138	AMP MFG CAPACITOR .20V	M485	63-1209	200 OHM RESISTOR
C010R	25A206	AMP MFG DISC .20V	C020	25A139	AMP MFG CAPACITOR .20V	M486	63-1210	200 OHM RESISTOR
C010S	25A206	AMP MFG DISC .20V	C021	25A140	AMP MFG CAPACITOR .20V	M487	63-1211	200 OHM RESISTOR
C010T	25A206	AMP MFG DISC .20V	C022	25A141	AMP MFG CAPACITOR .20V	M488	63-1212	200 OHM RESISTOR
C010U	25A206	AMP MFG DISC .20V	C023	25A142	AMP MFG CAPACITOR .20V	M489	63-1213	200 OHM RESISTOR
C010V	25A206	AMP MFG DISC .20V	C024	25A143	AMP MFG CAPACITOR .20V	M490	63-1214	200 OHM RESISTOR
C010W	25A206	AMP MFG DISC .20V	C025	25A144	AMP MFG CAPACITOR .20V	M491	63-1215	200 OHM RESISTOR
C010X	25A206	AMP MFG DISC .20V	C026	25A145	AMP MFG CAPACITOR .20V	M492	63-1216	200 OHM RESISTOR
C010Y	25A206	AMP MFG DISC .20V	C027	25A146	AMP MFG CAPACITOR .20V	M493	63-1217	200 OHM RESISTOR
C010Z	25A206	AMP MFG DISC .20V	C028	25A147	AMP MFG CAPACITOR .20V	M494	63-1218	200 OHM RESISTOR
C011A	25A206	AMP MFG DISC .20V	C029	25A148	AMP MFG CAPACITOR .20V	M495	63-1219	200 OHM RESISTOR
C011B	25A206	AMP MFG DISC .20V	C030	25A149	AMP MFG CAPACITOR .20V	M496	63-1220	200 OHM RESISTOR
C011C	25A206	AMP MFG DISC .20V	C031	25A150	AMP MFG CAPACITOR .20V	M497	63-1221	200 OHM RESISTOR
C011D	25A206	AMP MFG DISC .20V	C032	25A151	AMP MFG CAPACITOR .20V	M498	63-1222	200 OHM RESISTOR
C011E	25A206	AMP MFG DISC .20V	C033	25A152	AMP MFG CAPACITOR .20V	M499	63-1223	200 OHM RESISTOR
C011F	25A206	AMP MFG DISC .20V	C034	25A153	AMP MFG CAPACITOR .20V	M500	63-1224	200 OHM RESISTOR
C011G	25A206	AMP MFG DISC .20V	C035	25A154	AMP MFG CAPACITOR .20V	M501	63-1225	200 OHM RESISTOR
C011H	25A206	AMP MFG DISC .20V	C036	25A155	AMP MFG CAPACITOR .20V	M502	63-1226	200 OHM RESISTOR
C011I	25A206	AMP MFG DISC .20V	C037	25A156	AMP MFG CAPACITOR .20V	M503	63-1227	200 OHM RESISTOR
C011J	25A206	AMP MFG DISC .20V	C038	25A157	AMP MFG CAPACITOR .20V	M504	63-1228	200 OHM RESISTOR
C011K	25A206	AMP MFG DISC .20V	C039	25A158	AMP MFG CAPACITOR .20V	M505		
C011L	25A206	AMP MFG DISC .20V	C040	25A159	AMP MFG CAPACITOR .20V	M506		
C011M	25A206	AMP MFG DISC .20V	C041	25A160	AMP MFG CAPACITOR .20V	M507		
C011N	25A206	AMP MFG DISC .20V	C042	25A161	AMP MFG CAPACITOR .20V	M508		
C011O	25A206	AMP MFG DISC .20V	C043	25A162	AMP MFG CAPACITOR .20V	M509		
C011P	25A206	AMP MFG DISC .20V	C044	25A163	AMP MFG CAPACITOR .20V	M510		
C011Q	25A206	AMP MFG DISC .20V	C045	25A164	AMP MFG CAPACITOR .20V	M511		
C011R	25A206	AMP MFG DISC .20V	C046	25A165	AMP MFG CAPACITOR .20V	M512		
C011S	25A206	AMP MFG DISC .20V	C047	25A166	AMP MFG CAPACITOR .20V	M513		
C011T	25A206	AMP MFG DISC .20V	C048	25A167	AMP MFG CAPACITOR .20V	M514		
C011U	25A206	AMP MFG DISC .20V	C049	25A168	AMP MFG CAPACITOR .20V	M515		
C011V	25A206	AMP MFG DISC .20V	C050	25A169	AMP MFG CAPACITOR .20V	M516		
C011W	25A206	AMP MFG DISC .20V	C051	25A170	AMP MFG CAPACITOR .20V	M517		
C011X	25A206	AMP MFG DISC .20V	C052	25A171	AMP MFG CAPACITOR .20V	M518		
C011Y	25A206	AMP MFG DISC .20V	C053	25A172	AMP MFG CAPACITOR .20V	M519		
C011Z	25A206	AMP MFG DISC .20V	C054	25A173	AMP MFG CAPACITOR .20V	M520		
C012A	25A206	AMP MFG DISC .20V	C055	25A174	AMP MFG CAPACITOR .20V	M521		
C012B	25A206	AMP MFG DISC .20V	C056	25A175	AMP MFG CAPACITOR .20V	M522		
C012C	25A206	AMP MFG DISC .20V	C057	25A176	AMP MFG CAPACITOR .20V	M523		
C012D	25A206	AMP MFG DISC .20V	C058	25A177	AMP MFG CAPACITOR .20V	M524		
C012E	25A206	AMP MFG DISC .20V	C059	25A178	AMP MFG CAPACITOR .20V	M525		
C012F	25A206	AMP MFG DISC .20V	C060	25A179	AMP MFG CAPACITOR .20V	M526		
C012G	25A206	AMP MFG DISC .20V	C061	25A180	AMP MFG CAPACITOR .20V	M527		
C012H	25A206	AMP MFG DISC .20V	C062	25A181	AMP MFG CAPACITOR .20V	M528		
C012I	25A206	AMP MFG DISC .20V	C063	25A182	AMP MFG CAPACITOR .20V	M529		
C012J	25A206	AMP MFG DISC .20V	C064	25A183	AMP MFG CAPACITOR .20V	M530		
C012K	25A206	AMP MFG DISC .20V	C065	25A184	AMP MFG CAPACITOR .20V	M531		
C012L	25A206	AMP MFG DISC .20V	C066	25A185	AMP MFG CAPACITOR .20V	M532		
C012M	25A206	AMP MFG DISC .20V	C067	25A186	AMP MFG CAPACITOR .20V	M533		
C012N	25A206	AMP MFG DISC .20V	C068	25A187	AMP MFG CAPACITOR .20V	M534		
C012O	25A206	AMP MFG DISC .20V	C069	25A188	AMP MFG CAPACITOR .20V	M535		
C012P	25A206	AMP MFG DISC .20V	C070	25A189	AMP MFG CAPACITOR .20V	M536		
C012Q	25A206	AMP MFG DISC .20V	C071	25A190	AMP MFG CAPACITOR .20V	M537		
C012R	25A206	AMP MFG DISC .20V	C072	25A191	AMP MFG CAPACITOR .20V	M538		
C012S	25A206	AMP MFG DISC .20V	C073	25A192	AMP MFG CAPACITOR .20V	M539		
C012T	25A206	AMP MFG DISC .20V	C074	25A193	AMP MFG CAPACITOR .20V	M540		
C012U	25A206	AMP MFG DISC .20V	C075	25A194	AMP MFG CAPACITOR .20V	M541		
C012V	25A206	AMP MFG DISC .20V	C076	25A195	AMP MFG CAPACITOR .20V	M542		
C012W	25A206	AMP MFG DISC .20V	C077	25A196	AMP MFG CAPACITOR .20V	M543		
C012X	25A206	AMP MFG DISC .20V	C078	25A197	AMP MFG CAPACITOR .20V	M544		
C012Y	25A206	AMP MFG DISC .20V	C079	25A198	AMP MFG CAPACITOR .20V	M545		
C012Z	25A206	AMP MFG DISC .20V	C080	25A199	AMP MFG CAPACITOR .20V	M546		
C013A	25A206	AMP MFG DISC .20V	C081	25A200	AMP MFG CAPACITOR .20V	M547		
C013B	25A206	AMP MFG DISC .20V	C082	25A201	AMP MFG CAPACITOR .20V	M548		
C013C	25A206	AMP MFG DISC .20V	C083	25A202	AMP MFG CAPACITOR .20V	M549		
C013D	25A206	AMP MFG DISC .20V	C084	25A203	AMP MFG CAPACITOR .20V	M550		
C013E	25A206	AMP MFG DISC .20V	C085	25A204	AMP MFG CAPACITOR .20V	M551		
C013F	25A206	AMP MFG DISC .20V	C086	25A205	AMP MFG CAPACITOR .20V	M552		
C013G	25A206	AMP MFG DISC .20V	C087	25A206	AMP MFG CAPACITOR .20V	M553		
C013H	25A206	AMP MFG DISC .20V	C088	25A207	AMP MFG CAPACITOR .20V	M554		
C013I	25A206	AMP MFG DISC .20V	C089	25A208	AMP MFG CAPACITOR .20V	M555		
C013J	25A206	AMP MFG DISC .20V	C090	25A209	AMP MFG CAPACITOR .20V	M556		
C013K	25A206	AMP MFG DISC .20V	C091	25A210	AMP MFG CAPACITOR .20V	M557		
C013L	25A206	AMP MFG DISC .20V	C092	25A211	AMP MFG CAPACITOR .20V	M558		
C013M	25A206	AMP MFG DISC .20V	C093	25A212	AMP MFG CAPACITOR .20V	M559		
C013N	25A206	AMP MFG DISC .20V	C094	25A213	AMP MFG CAPACITOR .20V	M560		
C013O	25A206	AMP MFG DISC .20V	C095	25A214	AMP MFG CAPACITOR .20V	M561		
C013P	25A206	AMP MFG DISC .20V	C096	25A215	AMP MFG CAPACITOR .20V	M562		
C013Q	25A206	AMP MFG DISC .20V	C097	25A216	AMP MFG CAPACITOR .20V	M563		
C013R	25A206	AMP MFG DISC .20V	C098	25A217	AMP MFG CAPACITOR .20V	M564		
C013S	25A206	AMP MFG DISC .20V	C099	25A218	AMP MFG CAPACITOR .20V	M565		
C013T	25A206	AMP MFG DISC .20V	C100	25A219	AMP MFG CAPACITOR .20V	M566		
C013U	25A206	AMP MFG DISC .20V	C101	25A220	AMP MFG CAPACITOR .20V	M567		
C013V	25A206	AMP MFG DISC .20V	C102	25A221	AMP MFG CAPACITOR .20V	M568		
C013W	25A206	AMP MFG DISC .20V	C103	25A222	AMP MFG CAPACITOR .20V	M569		
C013X	25A206	AMP MFG DISC .20V	C104	25A223	AMP MFG CAPACITOR .20V	M570		
C013Y	25A206	AMP MFG DISC .20V	C105	25A224	AMP MFG CAPACITOR .20V	M571		
C013Z	25A206	AMP MFG DISC .20V	C106	25A225	AMP MFG CAPACITOR .20V	M572		
C014A	25A206	AMP MFG DISC .20V	C107	25A226	AMP MFG CAPACITOR .20V	M573		
C014B	25A206	AMP MFG DISC .20V	C108	25A227	AMP MFG CAPACITOR .20V	M574		
C014C	25A206	AMP MFG DISC .20V	C109	25A228	AMP MFG CAPACITOR .20V	M575		
C014D	25A206	AMP MFG DISC .20V	C110	25A229	AMP MFG CAPACITOR .20V	M576		
C014E	25A206	AMP MFG DISC .20V	C111	25A230	AMP MFG CAPACITOR .20V	M577		
C014F	25A206	AMP MFG DISC .20V	C112	25A231	AMP MFG CAPACITOR .20V	M578		
C014G	25A206	AMP MFG DISC .20V	C113	25A232	AMP MFG CAPACITOR .20V	M579		
C014H	25A206	AMP MFG DISC .20V	C114	25A233	AMP MFG CAPACITOR .20V	M580		
C014I	25A206	AMP MFG DISC .20V	C115	25A234	AMP MFG CAPACITOR .20V	M581		
C014J	25A206	AMP MFG DISC .20V	C116	25A235	AMP MFG CAPACITOR .20V	M582		
C014K	25A206	AMP MFG DISC .20V	C117	25A236	AMP MFG CAPACITOR .20V	M583		
C014L	25A206	AMP MFG DISC .20V	C118	25A237	AMP MFG CAPACITOR .20V	M584		
C014M	25A206	AMP MFG DISC .20V	C119	25A238	AMP MFG CAPACITOR .20V	M585		
C014N	25A206	AMP MFG DISC .20V	C120	25A239	AMP MFG CAPACITOR .20V	M586		
C014O	25A206	AMP MFG DISC .20V	C121	25A240	AMP MFG CAPACITOR .20V	M587		
C014P	25A206	AMP MFG DISC .20V	C122	25A241	AMP MFG CAPACITOR .20V	M588		
C014Q	25A206	AMP MFG DISC .20V	C123	25A242	AMP MFG CAPACITOR .20V	M589		
C014R	25A206	AMP MFG DISC .20V	C124	25A243	AMP MFG CAPACITOR .20V	M590		
C014S	25A206	AMP MFG DISC .20V	C125	25A244	AMP MFG CAPACITOR .20V	M591		
C014T	25A206	AMP MFG DISC .20V	C126	25A245	AMP MFG CAPACITOR .20V	M592		
C014U	25A206	AMP MFG DISC .20V	C127	25A246	AMP MFG CAPACITOR .20V	M593		
C014V	25A206	AMP MFG DISC .20V	C128	25A247	AMP MFG CAPACITOR .20V	M594		
C014W	25A206	AMP MFG DISC .20V	C129	25A248	AMP MFG CAPACITOR .20V	M595		
C014X	25A206	AMP MFG DISC .20V	C130	25A249	AMP MFG CAPACITOR .20V	M596		
C014Y	25A206	AMP MFG DISC .20V	C131	25A250	AMP MFG CAPACITOR .20V	M597		
C014Z	25A206	AMP MFG DISC .20V	C132	25A251	AMP MFG CAPACITOR .20V	M598		
C015A	25A206	AMP MFG DISC .20V	C133	25A252	AMP MFG CAPACITOR .20V	M599		
C015B	25A206	AMP MFG DISC .20V	C134	25A253	AMP MFG CAPACITOR .20V	M600		
C015C	25							



25AT20 - SCHEMATIC



CORD A

CORD B

CORD C

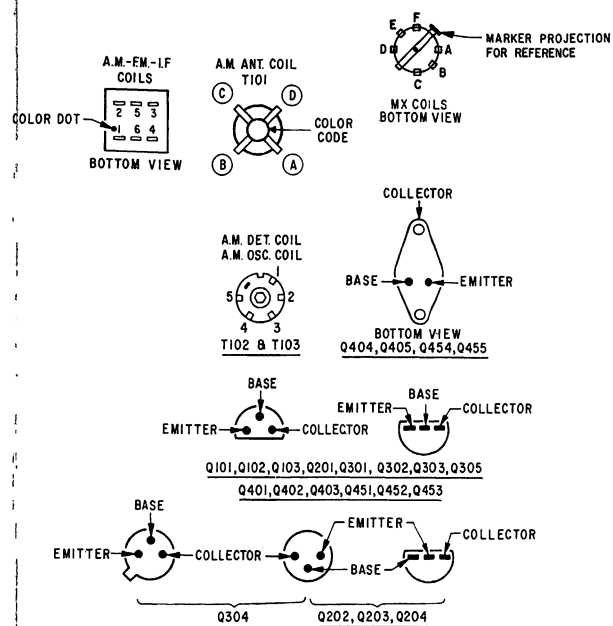
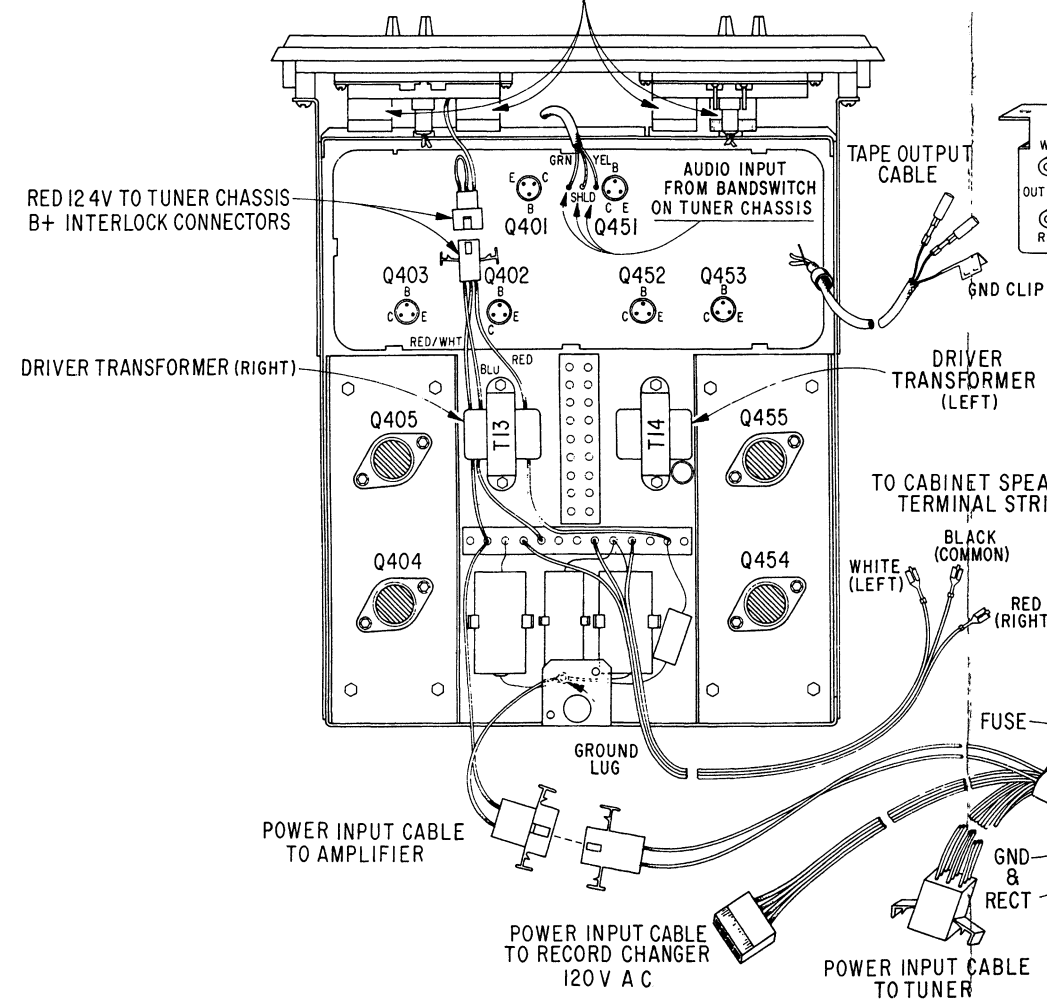
"A"
FINISH EYELET ON FRONT PIN
WIND 1 1/2 TURN (CCW)
IN BACK OF PIN

"B"
START EYELET ON BACK PIN
WIND 6 3/4 TURNS (CW)
IN FRONT OF PIN

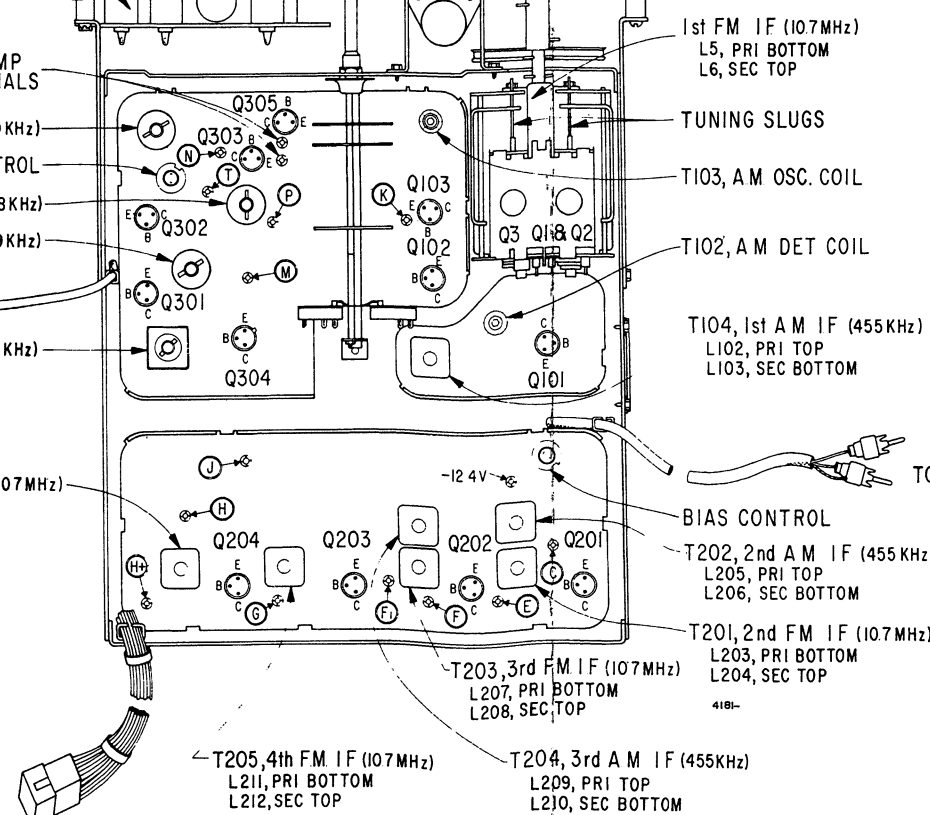
"C"
START EYELET ON BACK PIN
WIND 6 1/2 TURNS (CW)
IN FRONT OF PIN

"C"
FINISH EYELET ON
FRONT PIN
WIND 1 TURN IN BACK OF PIN

SLIDE CONTROL
EDGE PC CONNECTORS

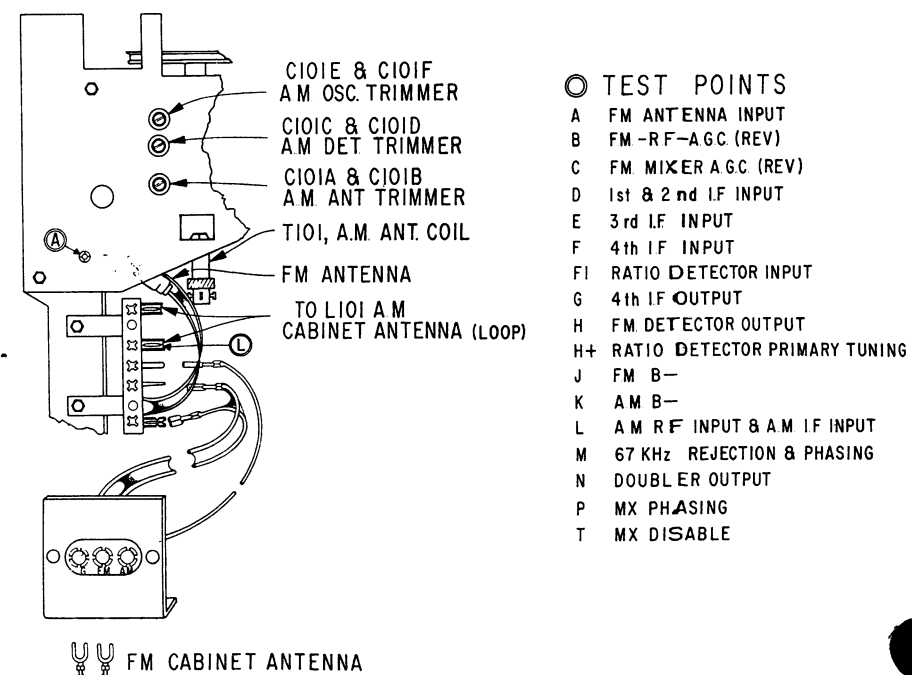


OFF-ON SWITCH — MONO-STEREO SWITCH
BANDSWITCH — TUNING CONTROL



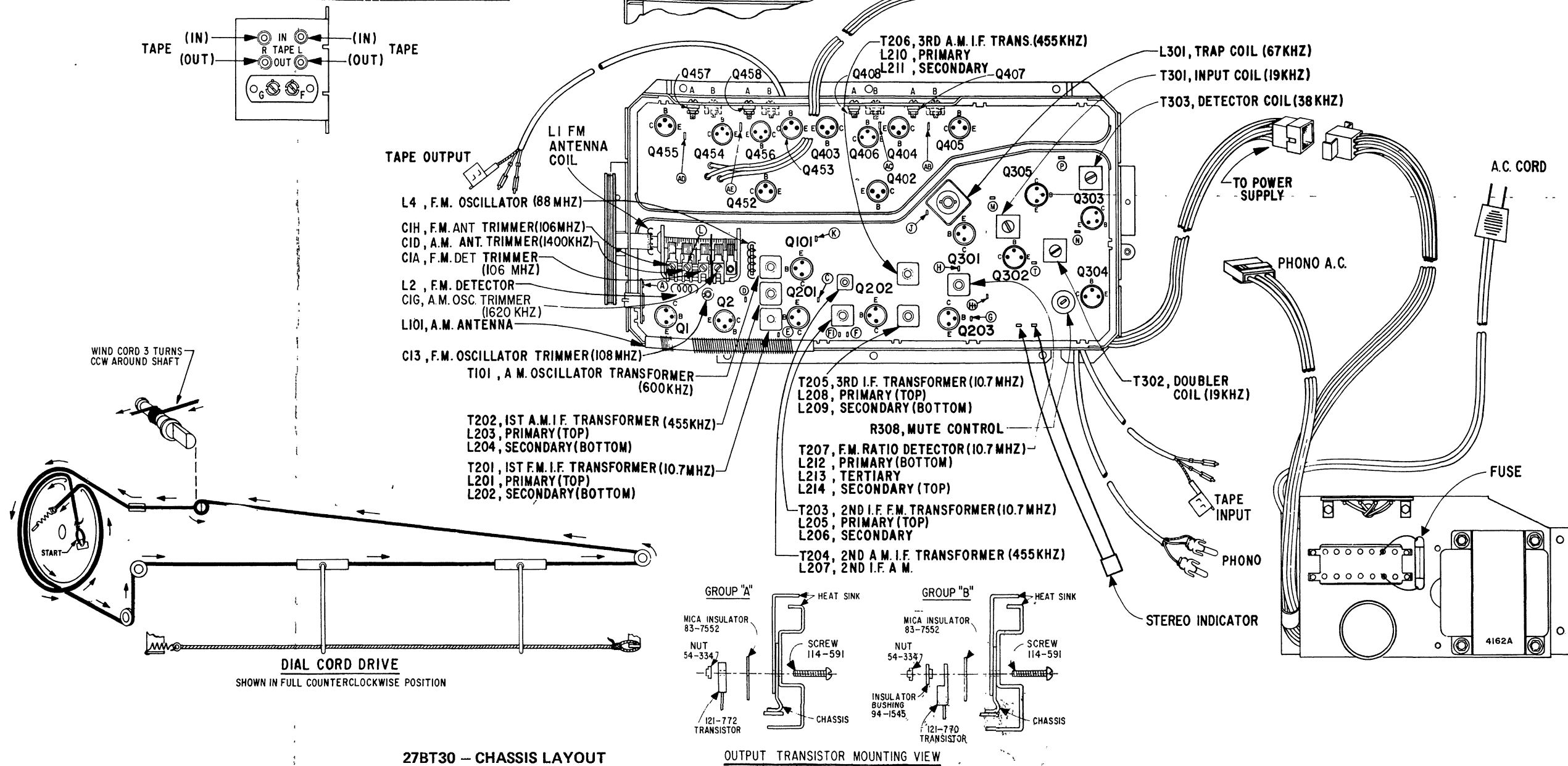
TRANSISTORS		
No.	PART No.	DESCRIPTION
Q1	121-731	FM. R.F
Q2	121-732	FM MIXER
Q3	121-432	FM OSCILLATOR
Q101	121-753	A.M. R.F
Q102	121-638	A.M. MIXER
Q103	121-753	A.M. OSCILLATOR
Q201	121-614	FM & A.M. 1st I F
Q202		FM. & A.M. 2nd I F
Q203	121-546	FM 3rd I F
Q204		4th FM. I F
Q301		COMP AMPLIFIER
Q302	121-496	19KHz AMPLIFIER
Q303		38KHz AMPLIFIER
Q304	121-734	BIPELEX DETECTOR
Q305	121-496	STEREO INDICATOR SWITCH
Q401	121-433	PRE AMPLIFIER
Q402	121-751	PRE DRIVER
Q403	121-706	DRIVER
Q404		
Q405	121-830	POWER AMPLIFIER
Q451	121-433	PRE AMPLIFIER
Q452	121-751	PRE DRIVER
Q453	121-706	DRIVER
Q454		
Q455	121-830	POWER AMPLIFIER

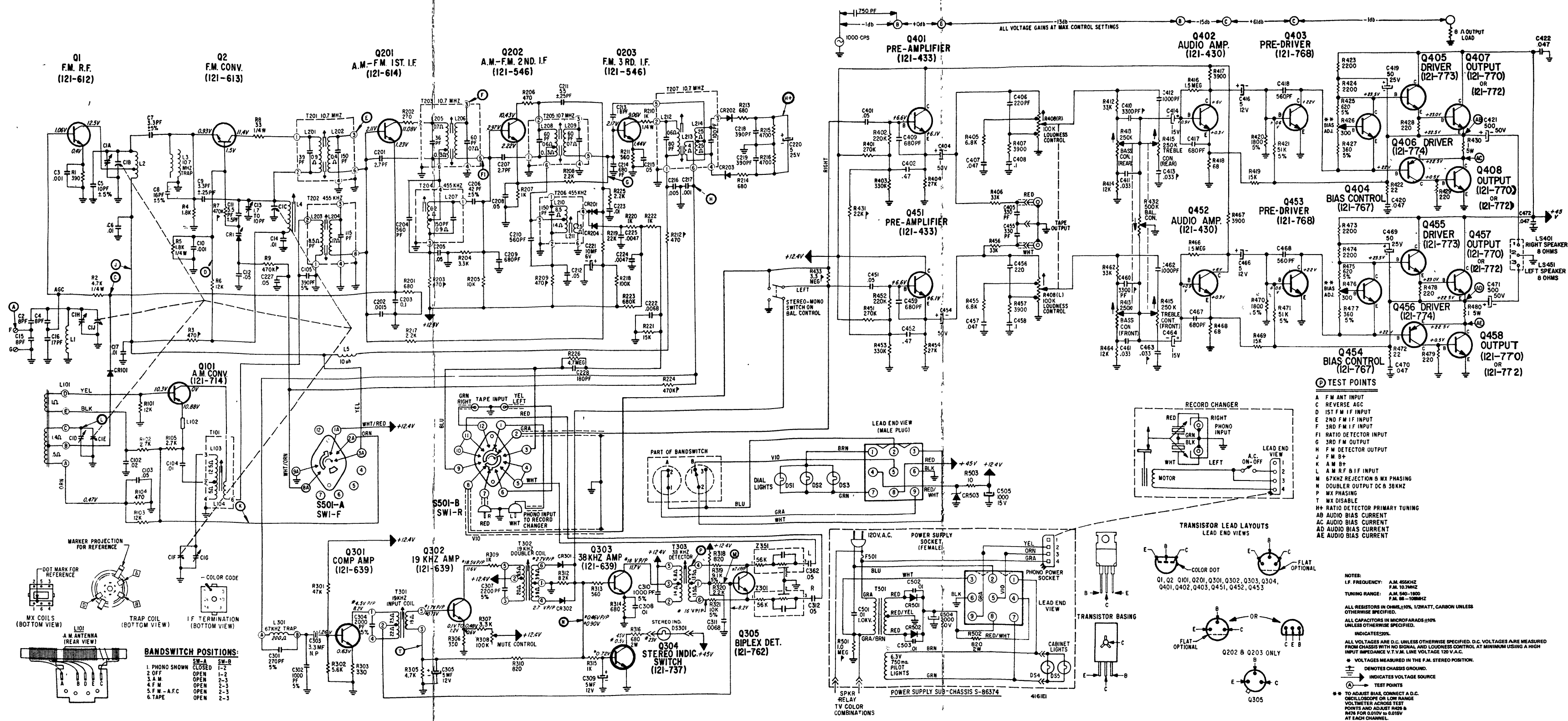
LEGEND CHAIN 25712								
ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
C6161		AMP VARIABLE TRIMMER	C662	25-212	247 MFD CAPACITOR .00V	C663	62-106	50 OHM RESISTOR
C6162		AMP VARIABLE TRIMMER	C663	25-212	1000 MFD ELECTROLYTIC .00V	C664	62-107	50 OHM RESISTOR
C6163		AMP VARIABLE TRIMMER	C664	25-212	500 MFD ELECTROLYTIC .00V	C665	62-107	50 OHM RESISTOR
C6164		AMP VARIABLE TRIMMER	C665	25-212	100 MFD ELECTROLYTIC .00V	C666	62-107	50 OHM RESISTOR
C6165		AMP VARIABLE TRIMMER	C666	25-212	100 MFD ELECTROLYTIC .00V	C667	62-107	50 OHM RESISTOR
C6166		AMP VARIABLE TRIMMER	C667	25-212	100 MFD ELECTROLYTIC .00V	C668	62-107	50 OHM RESISTOR
C6167		AMP VARIABLE TRIMMER	C668	25-212	100 MFD ELECTROLYTIC .00V	C669	62-107	50 OHM RESISTOR
C6168		AMP VARIABLE TRIMMER	C669	25-212	100 MFD ELECTROLYTIC .00V	C670	62-107	50 OHM RESISTOR
C6169		AMP VARIABLE TRIMMER	C670	25-212	100 MFD ELECTROLYTIC .00V	C671	62-107	50 OHM RESISTOR
C6170		AMP VARIABLE TRIMMER	C671	25-212	100 MFD ELECTROLYTIC .00V	C672	62-107	50 OHM RESISTOR
C6171		AMP VARIABLE TRIMMER	C672	25-212	100 MFD ELECTROLYTIC .00V	C673	62-107	50 OHM RESISTOR
C6172		AMP VARIABLE TRIMMER	C673	25-212	100 MFD ELECTROLYTIC .00V	C674	62-107	50 OHM RESISTOR
C6173		AMP VARIABLE TRIMMER	C674	25-212	100 MFD ELECTROLYTIC .00V	C675	62-107	50 OHM RESISTOR
C6174		AMP VARIABLE TRIMMER	C675	25-212	100 MFD ELECTROLYTIC .00V	C676	62-107	50 OHM RESISTOR
C6175		AMP VARIABLE TRIMMER	C676	25-212	100 MFD ELECTROLYTIC .00V	C677	62-107	50 OHM RESISTOR
C6176		AMP VARIABLE TRIMMER	C677	25-212	100 MFD ELECTROLYTIC .00V	C678	62-107	50 OHM RESISTOR
C6177		AMP VARIABLE TRIMMER	C678	25-212	100 MFD ELECTROLYTIC .00V	C679	62-107	50 OHM RESISTOR
C6178		AMP VARIABLE TRIMMER	C679	25-212	100 MFD ELECTROLYTIC .00V	C680	62-107	50 OHM RESISTOR
C6179		AMP VARIABLE TRIMMER	C680	25-212	100 MFD ELECTROLYTIC .00V	C681	62-107	50 OHM RESISTOR
C6180		AMP VARIABLE TRIMMER	C681	25-212	100 MFD ELECTROLYTIC .00V	C682	62-107	50 OHM RESISTOR
C6181		AMP VARIABLE TRIMMER	C682	25-212	100 MFD ELECTROLYTIC .00V	C683	62-107	50 OHM RESISTOR
C6182		AMP VARIABLE TRIMMER	C683	25-212	100 MFD ELECTROLYTIC .00V	C684	62-107	50 OHM RESISTOR
C6183		AMP VARIABLE TRIMMER	C684	25-212	100 MFD ELECTROLYTIC .00V	C685	62-107	50 OHM RESISTOR
C6184		AMP VARIABLE TRIMMER	C685	25-212	100 MFD ELECTROLYTIC .00V	C686	62-107	50 OHM RESISTOR
C6185		AMP VARIABLE TRIMMER	C686	25-212	100 MFD ELECTROLYTIC .00V	C687	62-107	50 OHM RESISTOR
C6186		AMP VARIABLE TRIMMER	C687	25-212	100 MFD ELECTROLYTIC .00V	C688	62-107	50 OHM RESISTOR
C6187		AMP VARIABLE TRIMMER	C688	25-212	100 MFD ELECTROLYTIC .00V	C689	62-107	50 OHM RESISTOR
C6188		AMP VARIABLE TRIMMER	C689	25-212	100 MFD ELECTROLYTIC .00V	C690	62-107	50 OHM RESISTOR
C6189		AMP VARIABLE TRIMMER	C690	25-212	100 MFD ELECTROLYTIC .00V	C691	62-107	50 OHM RESISTOR
C6190		AMP VARIABLE TRIMMER	C691	25-212	100 MFD ELECTROLYTIC .00V	C692	62-107	50 OHM RESISTOR
C6191		AMP VARIABLE TRIMMER	C692	25-212	100 MFD ELECTROLYTIC .00V	C693	62-107	50 OHM RESISTOR
C6192		AMP VARIABLE TRIMMER	C693	25-212	100 MFD ELECTROLYTIC .00V	C694	62-107	50 OHM RESISTOR
C6193		AMP VARIABLE TRIMMER	C694	25-212	100 MFD ELECTROLYTIC .00V	C695	62-107	50 OHM RESISTOR
C6194		AMP VARIABLE TRIMMER	C695	25-212	100 MFD ELECTROLYTIC .00V	C696	62-107	50 OHM RESISTOR
C6195		AMP VARIABLE TRIMMER	C696	25-212	100 MFD ELECTROLYTIC .00V	C697	62-107	50 OHM RESISTOR
C6196		AMP VARIABLE TRIMMER	C697	25-212	100 MFD ELECTROLYTIC .00V	C698	62-107	50 OHM RESISTOR
C6197		AMP VARIABLE TRIMMER	C698	25-212	100 MFD ELECTROLYTIC .00V	C699	62-107	50 OHM RESISTOR
C6198		AMP VARIABLE TRIMMER	C699	25-212	100 MFD ELECTROLYTIC .00V	C700	62-107	50 OHM RESISTOR
C6199		AMP VARIABLE TRIMMER	C700	25-212	100 MFD ELECTROLYTIC .00V	C701	62-107	50 OHM RESISTOR
C6200		AMP VARIABLE TRIMMER	C701	25-212	100 MFD ELECTROLYTIC .00V	C702	62-107	50 OHM RESISTOR
C6201		AMP VARIABLE TRIMMER	C702	25-212	100 MFD ELECTROLYTIC .00V	C703	62-107	50 OHM RESISTOR
C6202		AMP VARIABLE TRIMMER	C703	25-212	100 MFD ELECTROLYTIC .00V	C704	62-107	50 OHM RESISTOR
C6203		AMP VARIABLE TRIMMER	C704	25-212	100 MFD ELECTROLYTIC .00V	C705	62-107	50 OHM RESISTOR
C6204		AMP VARIABLE TRIMMER	C705	25-212	100 MFD ELECTROLYTIC .00V	C706	62-107	50 OHM RESISTOR
C6205		AMP VARIABLE TRIMMER	C706	25-212	100 MFD ELECTROLYTIC .00V	C707	62-107	50 OHM RESISTOR
C6206		AMP VARIABLE TRIMMER	C707	25-212	100 MFD ELECTROLYTIC .00V	C708	62-107	50 OHM RESISTOR
C6207		AMP VARIABLE TRIMMER	C708	25-212	100 MFD ELECTROLYTIC .00V	C709	62-107	50 OHM RESISTOR
C6208		AMP VARIABLE TRIMMER	C709	25-212	100 MFD ELECTROLYTIC .00V	C710	62-107	50 OHM RESISTOR
C6209		AMP VARIABLE TRIMMER	C710	25-212	100 MFD ELECTROLYTIC .00V	C711	62-107	50 OHM RESISTOR
C6210		AMP VARIABLE TRIMMER	C711	25-212	100 MFD ELECTROLYTIC .00V	C712	62-107	50 OHM RESISTOR
C6211		AMP VARIABLE TRIMMER	C712	25-212	100 MFD ELECTROLYTIC .00V	C713	62-107	50 OHM RESISTOR
C6212		AMP VARIABLE TRIMMER	C713	25-212	100 MFD ELECTROLYTIC .00V	C714	62-107	50 OHM RESISTOR
C6213		AMP VARIABLE TRIMMER	C714	25-212	100 MFD ELECTROLYTIC .00V	C715	62-107	50 OHM RESISTOR
C6214		AMP VARIABLE TRIMMER	C715	25-212	100 MFD ELECTROLYTIC .00V	C716	62-107	50 OHM RESISTOR
C6215		AMP VARIABLE TRIMMER	C716	25-212	100 MFD ELECTROLYTIC .00V	C717	62-107	50 OHM RESISTOR
C6216		AMP VARIABLE TRIMMER	C717	25-212	100 MFD ELECTROLYTIC .00V	C718	62-107	50 OHM RESISTOR
C6217		AMP VARIABLE TRIMMER	C718	25-212	100 MFD ELECTROLYTIC .00V	C719	62-107	50 OHM RESISTOR
C6218		AMP VARIABLE TRIMMER	C719	25-212	100 MFD ELECTROLYTIC .00V	C720	62-107	50 OHM RESISTOR
C6219		AMP VARIABLE TRIMMER	C720	25-212	100 MFD ELECTROLYTIC .00V	C721	62-107	50 OHM RESISTOR
C6220		AMP VARIABLE TRIMMER	C721	25-212	100 MFD ELECTROLYTIC .00V	C722	62-107	50 OHM RESISTOR
C6221		AMP VARIABLE TRIMMER	C722	25-212	100 MFD ELECTROLYTIC .00V	C723	62-107	50 OHM RESISTOR
C6222		AMP VARIABLE TRIMMER	C723	25-212	100 MFD ELECTROLYTIC .00V	C724	62-107	50 OHM RESISTOR
C6223		AMP VARIABLE TRIMMER	C724	25-212	100 MFD ELECTROLYTIC .00V	C725	62-107	50 OHM RESISTOR
C6224		AMP VARIABLE TRIMMER	C725	25-212	100 MFD ELECTROLYTIC .00V	C726	62-107	50 OHM RESISTOR
C6225		AMP VARIABLE TRIMMER	C726	25-212	100 MFD ELECTROLYTIC .00V	C727	62-107	50 OHM RESISTOR
C6226		AMP VARIABLE TRIMMER	C727	25-212	100 MFD ELECTROLYTIC .00V	C728	62-107	50 OHM RESISTOR
C6227		AMP VARIABLE TRIMMER	C728	25-212	100 MFD ELECTROLYTIC .00V	C729	62-107	50 OHM RESISTOR
C6228		AMP VARIABLE TRIMMER	C729	25-212	100 MFD ELECTROLYTIC .00V	C730	62-107	50 OHM RESISTOR
C6229		AMP VARIABLE TRIMMER	C730	25-212	100 MFD ELECTROLYTIC .00V	C731	62-107	50 OHM RESISTOR
C6230		AMP VARIABLE TRIMMER	C731	25-212	100 MFD ELECTROLYTIC .00V	C732	62-107	50 OHM RESISTOR
C6231		AMP VARIABLE TRIMMER	C732	25-212	100 MFD ELECTROLYTIC .00V	C733	62-107	50 OHM RESISTOR
C6232		AMP VARIABLE TRIMMER	C733	25-212	100 MFD ELECTROLYTIC .00V	C734	62-107	50 OHM RESISTOR
C6233		AMP VARIABLE TRIMMER	C734	25-212	100 MFD ELECTROLYTIC .00V	C735	62-107	50 OHM RESISTOR
C6234		AMP VARIABLE TRIMMER	C735	25-212	100 MFD ELECTROLYTIC .00V	C736	62-107	50 OHM RESISTOR
C6235		AMP VARIABLE TRIMMER	C736	25-212	100 MFD ELECTROLYTIC .00V	C737	62-107	50 OHM RESISTOR
C6236		AMP VARIABLE TRIMMER	C737	25-212	100 MFD ELECTROLYTIC .00V	C738	62-107	50 OHM RESISTOR
C6237		AMP VARIABLE TRIMMER	C738	25-212	100 MFD ELECTROLYTIC .00V	C739	62-107	50 OHM RESISTOR
C6238		AMP VARIABLE TRIMMER	C739	25-212	100 MFD ELECTROLYTIC .00V	C740	62-107	50 OHM RESISTOR
C6239		AMP VARIABLE TRIMMER	C740	25-212	100 MFD ELECTROLYTIC .00V	C741	62-107	50 OHM RESISTOR
C6240		AMP VARIABLE TRIMMER	C741	25-212	100 MFD ELECTROLYTIC .00V	C742	62-107	50 OHM RESISTOR
C6241		AMP VARIABLE TRIMMER	C742	25-212	100 MFD ELECTROLYTIC .00V	C743	62-107	50 OHM RESISTOR
C6242		AMP VARIABLE TRIMMER	C743	25-212	100 MFD ELECTROLYTIC .00V	C744	62-107	50 OHM RESISTOR
C6243		AMP VARIABLE TRIMMER	C744	25-212	100 MFD ELECTROLYTIC .00V	C745	62-107	50 OHM RESISTOR
C6244		AMP VARIABLE TRIMMER	C745	25-212	100 MFD ELECTROLYTIC .00V	C746	62-107	50 OHM RESISTOR
C6245		AMP VARIABLE TRIMMER	C746	25-212	100 MFD ELECTROLYTIC .00V	C747	62-107	50 OHM RESISTOR
C6246		AMP VARIABLE TRIMMER	C747	25-212	100 MFD ELECTROLYTIC .00V	C748	62-107	50 OHM RESISTOR
C6247		AMP VARIABLE TRIMMER	C748	25-212	100 MFD ELECTROLYTIC .00V	C749	62-107	50 OHM RESISTOR
C6248		AMP VARIABLE TRIMMER	C749	25-212	100 MFD ELECTROLYTIC .00V	C750	62-107	50 OHM RESISTOR
C6249		AMP VARIABLE TRIMMER	C750	25-212	100 MFD ELECTROLYTIC .00V	C751	62-107	50 OHM RESISTOR
C6250		AMP VARIABLE TRIMMER	C751	25-212	100 MFD ELECTROLYTIC .00V	C752	62-107	50 OHM RESISTOR
C6251		AMP VARIABLE TRIMMER	C752	25-212	100 MFD ELECTROLYTIC .00V	C753	62-107	50 OHM RESISTOR
C6252		AMP VARIABLE TRIMMER	C753	25-212	100 MFD ELECTROLYTIC .00V	C754	62-107	50 OHM RESISTOR
C6253		AMP VARIABLE TRIMMER	C754	25-212	100 MFD ELECTROLYTIC .00V	C755	62-107	50 OHM RESISTOR
C6254		AMP VARIABLE TRIMMER	C755	25-212	100 MFD ELECTROLYTIC .00V	C756	62-107	50 OHM RESISTOR
C6255		AMP VARIABLE TRIMMER	C756	25-212	100 MFD ELECTROLYTIC .00V	C757	62-107	50 OHM RESISTOR
C6256		AMP VARIABLE TRIMMER	C757	25-212	100 MFD ELECTROLYTIC .00V	C758	62-107	50 OHM RESISTOR
C6257		AMP VARIABLE TRIMMER	C758	25-212	100 MFD ELECTROLYTIC .00V	C759	62-107	50 OHM RESISTOR
C6258		AMP VARIABLE TRIMMER	C759	25-212	100 MFD ELECTROLYTIC .00V	C760	62-107	50 OHM RESISTOR
C6259		AMP VARIABLE TRIMMER	C760	25-212	100 MFD ELECTROLYTIC .00V	C761	62-107	50 OHM RESISTOR
C6260		AMP VARIABLE TRIMMER	C761	25-212	100 MFD ELECTROLYTIC .00V	C762	62-107	50 OHM RESISTOR
C6261		AMP VARIABLE TRIMMER	C762	25-212	100 MFD ELECTROLYTIC .00V	C763	62-107	50 OHM RESISTOR
C6262		AMP VARIABLE TRIMMER	C763	25-212	100 MFD ELECTROLYTIC .00V	C764	62-107	50 OHM RESISTOR
C6263		AMP VARIABLE TRIMMER	C764	25-212	100 MFD ELECTROLYTIC .00V	C765	62-107	50 OHM RESISTOR
C6264		AMP VARIABLE TRIMMER	C765	25-212	100 MFD ELECTROLYTIC .00V	C766	62-107	50 OHM RESISTOR
C6265		AMP VARIABLE TRIMMER	C766	25-212	100 MFD ELECTROLYTIC .00V	C767	62-107	50 OHM RESISTOR
C6266		AMP VARIABLE TRIMMER	C767	25-212	100 MFD ELECTROLYTIC .00V	C768	62-107	50 OHM RESISTOR
C6267		AMP VARIABLE TRIMMER	C768	25-212	100 MFD ELECTROLYTIC .00V	C769	62-107	50 OHM RESISTOR
C6268		AMP VARIABLE TRIMMER	C769	25-212	100 MFD ELECTROLYTIC .00V	C770	62-107	50 OHM RESISTOR
C6269		AMP VARIABLE TRIMMER	C770	25-212	100 MFD ELECTROLYTIC .00V	C771	62-107	50 OHM RESISTOR
C6270		AMP VARIABLE TRIMMER	C771	25-212	100 MFD ELECTROLYTIC .00V	C772	62-107	50 OHM RESISTOR
C6271		AMP VARIABLE TRIMMER	C772	25-212	100 MFD ELECTROLYTIC .00V	C773	62-107	50 OHM RESISTOR
C6272		AMP VARIABLE TRIMMER	C773	25-212	100 MFD ELECTROLYTIC .00V	C774	62-107	50 OHM RESISTOR
C6273		AMP VARIABLE TRIMMER	C774	25-212	100 MFD ELECTROLYTIC .00V	C775	62-107	50 OHM RESISTOR
C6274		AMP VARIABLE TRIMMER	C775	25-212	100 MFD ELECTROLYTIC .00V	C776	62-107	50 OHM RESISTOR
C6275		AMP VARIABLE TRIMMER	C776	25-212	100 MFD ELECTROLYTIC .00V	C777	62-107	50 OHM RESISTOR
C6276		AMP VARIABLE TRIMMER	C777	25-212	100 MFD ELECTROLYTIC .00V	C778	62-107	50 OHM RESISTOR
C6277		AMP VARIABLE TRIMMER	C778	25-212	100 MFD ELECTROLYTIC .00V	C779	62-107	50 OHM RESISTOR
C6278		AMP VARIABLE TRIMMER	C779	25-212	100 MFD ELECTROLYTIC .00V	C780	62-107	50 OHM RESISTOR
C6279		AMP VARIABLE TRIMMER	C780	25-212	100 MFD ELECTROLYTIC .00V	C781	62-107	50 OHM RESISTOR
C6280		AMP VARIABLE TRIMMER	C781	25-212	100 MFD ELECTROLYTIC .00V	C782	62-107	50 OHM RESISTOR
C6281		AMP VARIABLE TRIMMER	C782	25-212	100 MFD ELECTROLYTIC .00V	C783	62-107	50 OHM RESISTOR
C6282		AMP VARIABLE TRIMMER	C783	25-212	100 MFD ELECTROLYTIC .00V	C784	62-107	50 OHM RESISTOR
C6283		AMP VARIABLE TRIMMER	C784	25-212	100 MFD ELECTROLYTIC .00V	C785	62-107	50 OHM RESISTOR
C6284		AMP VARIABLE TRIMMER	C785	25-212	100 MFD ELECTROLYTIC .00V	C786	62-107	50 OHM RESISTOR
C6285		AMP VARIABLE TRIMMER	C786	25-212	100 MFD ELECTROLYTIC .00V	C787	62-107	50 OHM RESISTOR
C6286		AMP VARIABLE TRIMMER	C787	25-212	100 MFD ELECTROLYTIC .00V	C788	62-107	50 OHM RESISTOR
C6287		AMP VARIABLE TRIMMER	C788	25-212	100 MFD ELECTROLYTIC .00V	C789	62-107	50 OHM RESISTOR
C6288		AMP VARIABLE TRIMMER	C789	25-212	100 MFD ELECTROLYTIC .00V	C790	62-107	50 OHM RESISTOR
C6289								



TRANSISTORS			TRANSISTORS		
No	PART No	DESCRIPTION	No	PART No	DESCRIPTION
Q451	I21-433	PRE-AMPLIFIER 27BT30	Q2	I21-613	F M - R F
Q452	I21-430	AUDIO AMP	Q101	I21-714	A M CONVERTER
Q453	I21-768	PRE-DRIVER	Q201	I21-614	A M - F M 1ST I F
Q456	I21-774	DRIVER	Q202	I21-546	A M - F M 2ND I F
Q454	I21-767	BIAS CONTROL	Q203	I21-546	F M 3RD I F
Q455	I21-773	DRIVER	Q301	I21-639	COMP AMP
* Q457A	I21-772	OUTPUT	Q302	I21-639	19KHZ AMP
* Q457B	I21-770	OUTPUT	Q303	I21-639	38KHZ
* Q458A	I21-772	OUTPUT	Q304	I21-737	STEREO INDICATOR SWITCH
* Q458B	I21-770	OUTPUT	Q305	I21-762	BIPLEX DETECTOR
			Q401	I21-433	PRE-AMPLIFIER 27BT30
			Q402	I21-430	AUDIO AMP
			Q403	I21-768	PRE-DRIVER
			Q406	I21-774	DRIVER
			Q404	I21-767	BIAS CONTROL
			Q405	I21-773	DRIVER
			* Q407A	I21-772	OUTPUT
			* Q407B	I21-770	OUTPUT
			* Q408A	I21-772	OUTPUT
			* Q408B	I21-770	OUTPUT

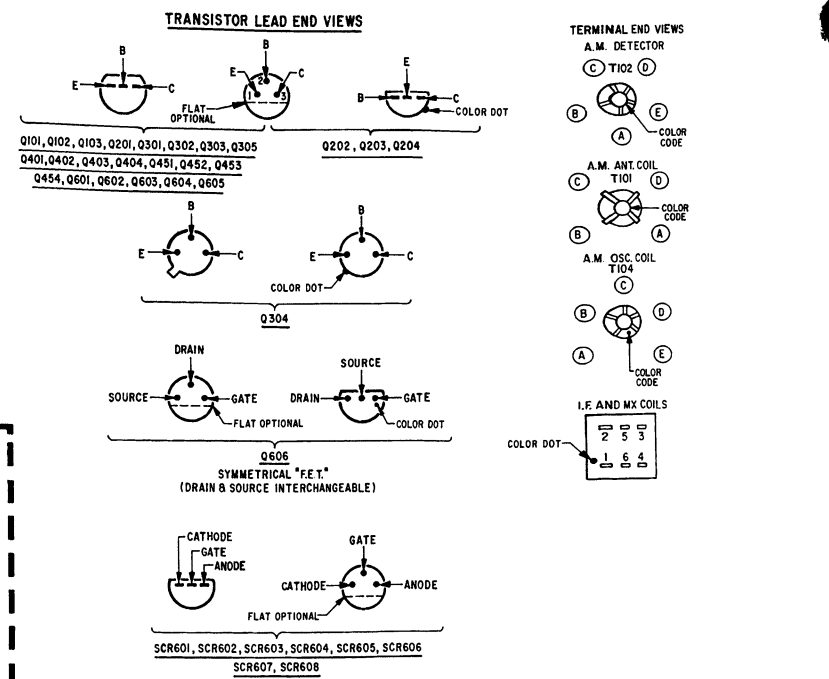
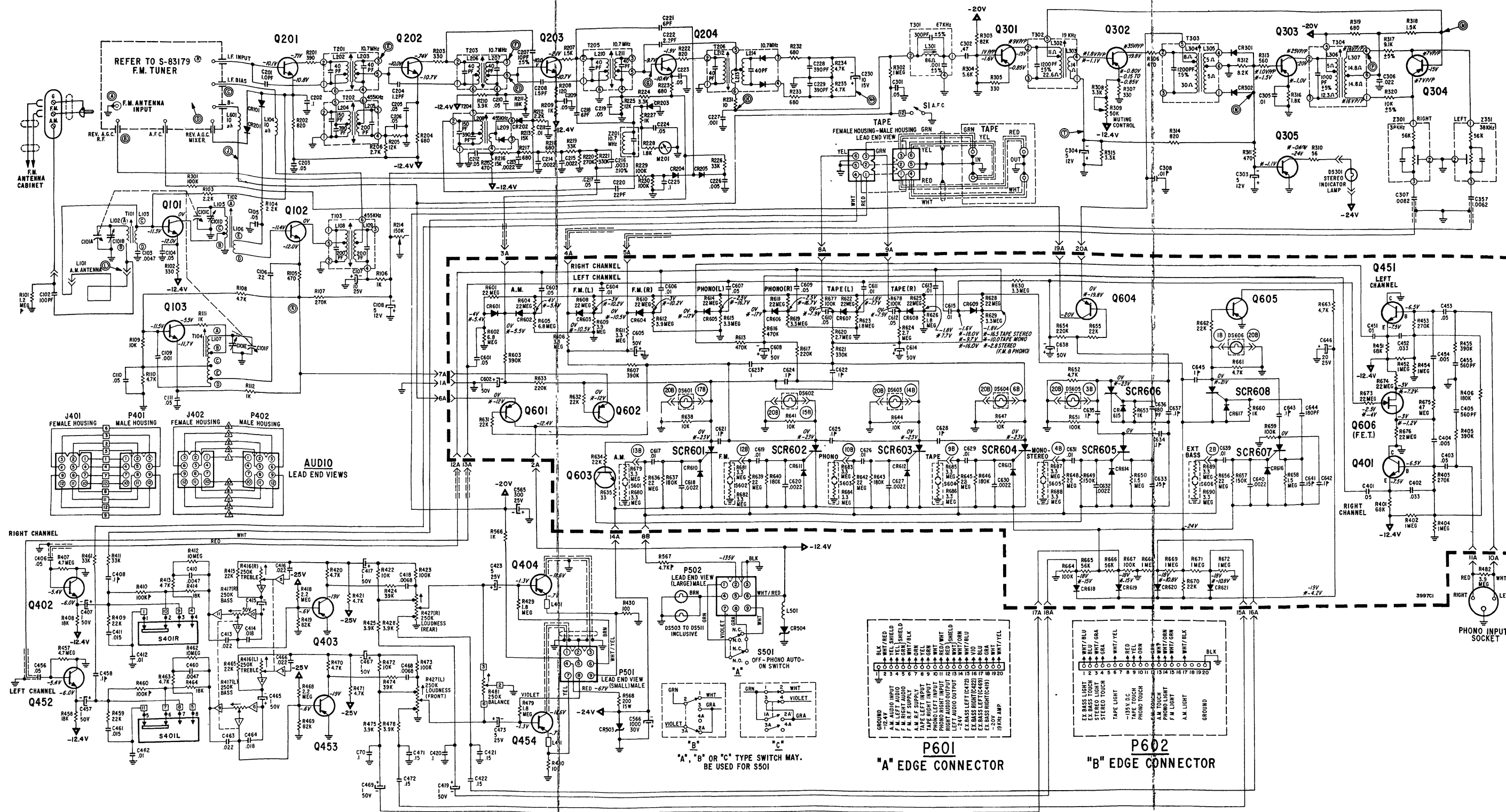
* OUTPUT TRANSISTORS MAY BE ONE OF TWO TYPES EITHER (4) I21-770 OR (4) I21-772 ARE USED IN THE APPROPRIATE POSITION. BOTH TYPES OF TRANSISTORS ARE SHOWN FOR REFERENCE





27BT30 - SCHEMATIC

666-14
 850-10



- TEST POINTS**
- A FM ANTENNA INPUT
 - B FM-R.F.-A.G.C. (REV.)
 - C FM MIXER A.G.C. (REV.)
 - D 1ST & 2ND I.F. INPUT
 - E 3RD I.F. INPUT
 - F 4TH I.F. INPUT
 - FI RATIO DETECTOR INPUT
 - G 4TH I.F. OUTPUT
 - H FM DETECTOR OUTPUT
 - H+ RATIO DETECTOR PRIMARY TUNING
 - J FM B-
 - K A.M. B-
 - L A.M. R.F. INPUT & A.M. I.F. INPUT
 - M 67 KHZ REJECTION & MX PHASING
 - N MX DOUBLER OUTPUT
 - P MX PHASING
 - R FM R.F. SOURCE (F.E.T.) VOLTAGE
 - T MX DISABLING

TRANSISTORS			
No.	PART No.	DESCRIPTION	
Q101	121-753	A.M. R.F.	
Q102	121-638	A.M. MIXER	
Q103	121-753	A.M. OSCILLATOR	
Q201	121-753	F.M. & A.M. 1ST I.F.	
Q202	121-546	F.M. & A.M. 2ND I.F.	
Q203	121-546	F.M. 3RD I.F.	
Q204	121-546	F.M. 4TH I.F.	
Q301	121-496	COMP AMPLIFIER	
Q302	121-496	19 KHZ AMPLIFIER	
Q303	121-496	38 KHZ AMPLIFIER	
Q304	121-734	BI-PLEX DETECTOR	
Q305	121-496	STEREO INDICATOR SWITCH	
Q401	121-433	PRE-AMPLIFIER	
Q402	121-430	PRE-AMPLIFIER	
Q403	121-603	PRE-AMPLIFIER	
Q404	121-602	PRE-AMPLIFIER	
Q451	121-433	PRE-AMPLIFIER	
Q452	121-430	PRE-AMPLIFIER	
Q453	121-603	PRE-AMPLIFIER	
Q454	121-602	PRE-AMPLIFIER	
Q601	121-497	F.M. B- SWITCHING	
Q602	121-497	A.M. B- SWITCHING	
Q603	421-447	STEREO-MONO SWITCH SUPPLY	
Q604	121-497	STEREO B- SWITCH	
Q605	121-497	EXT BASS SWITCH	
Q606	121-756	PHONO STEREO-MONO SWITCH	
SCR601	185-3	A.M. SWITCH	
SCR602	185-3	F.M. SWITCH	
SCR603	185-3	PHONO SWITCH	
SCR604	185-3	TAPE SWITCH	
SCR605	185-5	STEREO-MONO SWITCH	
SCR606	185-4	STEREO-MONO SWITCH	
SCR607	185-5	EXT BASS SWITCH ON-OFF	
SCR608	185-4	EXT BASS SWITCH ON-OFF	

NOTES:

ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED.

D.C. VOLTAGES SHOWN ARE MEASURED FROM CHASSIS WITH NO SIGNAL INPUT. LOUDNESS CONTROL AT MINIMUM. LINE VOLTAGE 120V A.C. USING A HIGH IMPEDANCE V.T.V.M.

ALL RESISTORS IN OHMS, 1/2 WATT CARBON, ±10% UNLESS OTHERWISE SPECIFIED.

ALL CAPACITORS ARE IN MICROFARADS ±10% UNLESS OTHERWISE SPECIFIED.

I.F. FREQUENCY: A.M. 455 KHZ
F.M. 10.7 MHz

TUNING RANGE: A.M. 540-1600 KHZ
F.M. 88-108 MHz

↑ INDICATES CHASSIS GROUND

↑ INDICATES ±20% TOLERANCE

→ INDICATES VOLTAGE

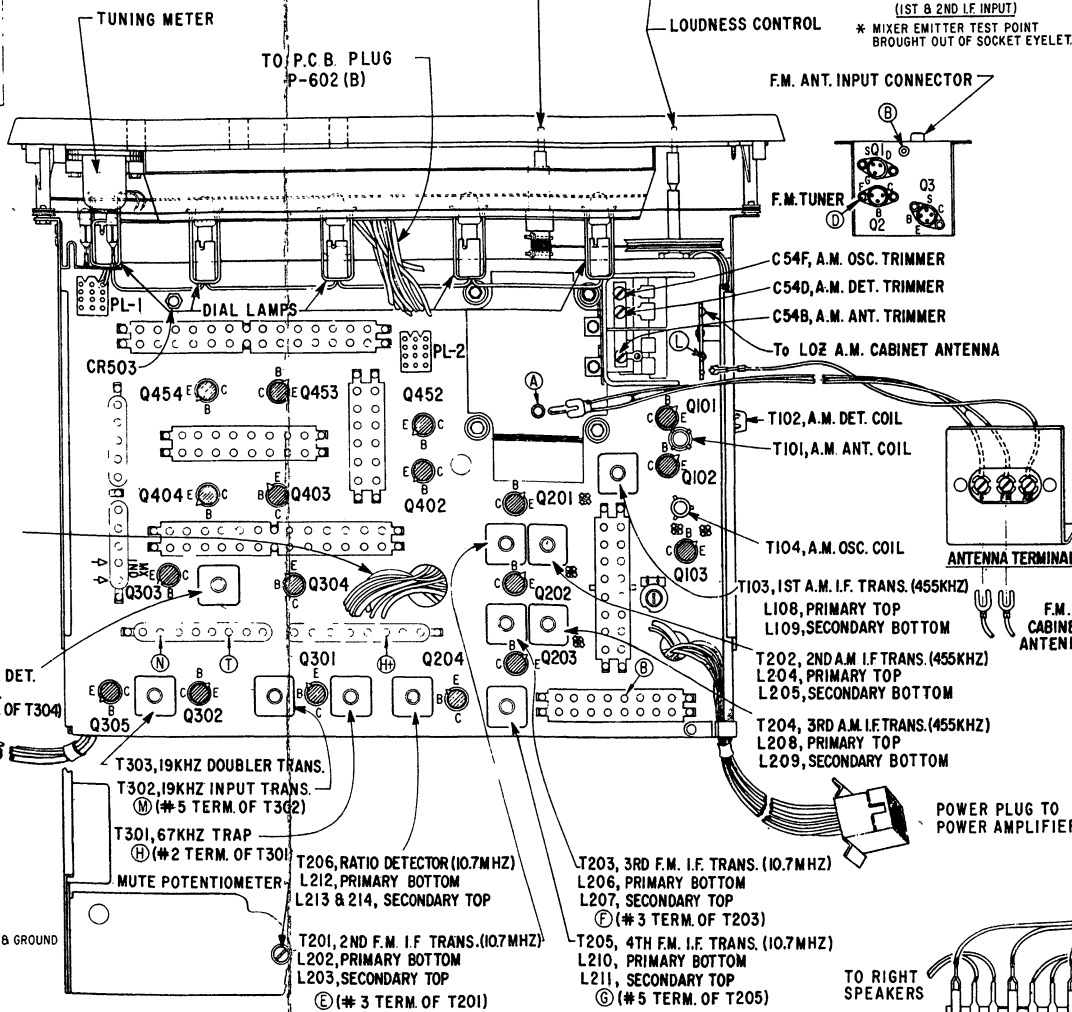
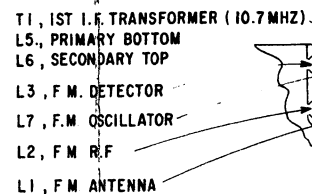
⊙ INDICATES TEST POINTS

* INDICATES VALUES PRESENT ONLY WITH STEREO SIGNAL

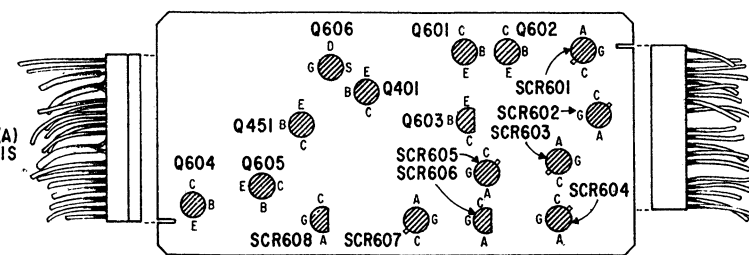
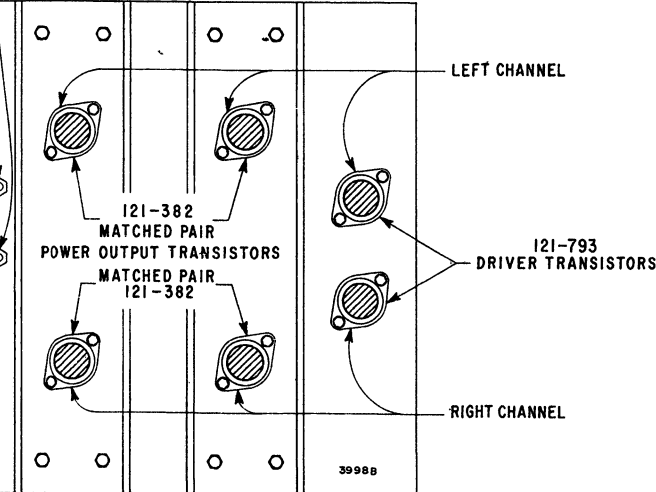
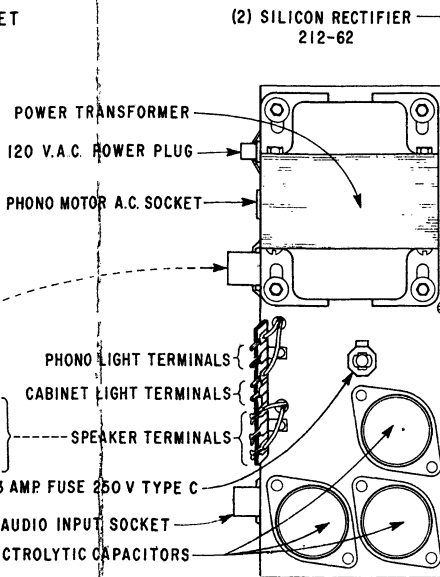
□ AND △ INDICATE INTERCONNECTING HOUSING FOR TONE CONTROL.

ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION.

29AT24 - SCHEMATIC



TRANSISTORS		
No	PART NO.	DESCRIPTION
Q1	[2]-731	F.W. R.F.
Q2	[2]-732	F.W. MIXER
Q3	[2]-432	F.W. OSC.
Q101	[2]-753	A.M. R.F.
Q102	[2]-754	A.M. MIXER
Q103	[2]-755	A.M. OSC.
Q201	[2]-646775	F.W. A.M. 1 st IF
Q202	[2]-646776	F.W. A.M. 2 nd IF
Q203	[2]-646	F.W. 3 rd IF
Q204	[2]-546	F.W.
Q301	[2]-496	COMPOSITE AMP.
Q302	[2]-496 19KHZ AMP	
Q303	[2]-496 36KHZ AMP	
Q304	[2]-496 15KHZ DET.	
Q305	[2]-496	STEREO IND. SWITCH
Q401	28-750-433	PHONO PRE AMP (R)
Q402	[2]-603	PRE AMP (R)
Q403	[2]-603	PRE AMP (L)
Q404	[2]-602	1 st AUDIO (R)
Q405	[2]-602	1 st AUDIO (L)
Q451	[2]-620433	PHONO PRE AMP (L)
Q452	[2]-640	PRE AMP (L)
Q453	[2]-630	PRE AMP (L)
Q454	[2]-627	1 st AUDIO (L)
Q601	[2]-492	F.M. B- SWITCHING
Q602	[2]-497	F.M. B- SWITCHING
Q603	[2]-447	STEREO-MONO SWITCH
Q604	[2]-497	STEREO 19KHZ AMP
Q605	[2]-497	EXT. BASS B- SWITCHING
Q606	[2]-756	PHONO STER- MONO SW.
SC6001	185-3	A.M. SWITCH
SC6002	185-3	F.W. SWITCH
SC6003	185-3	PHONO SWITCH
SC6004	185-3	TAPE SWITCH
SC6005	185-5	STEREO SWITCH 1
SC6006	185-5	STEREO SWITCH 2
SC6007	185-5	EXT. BASS SWITCH 1
SC6008	185-5	EXT. BASS SWITCH 2



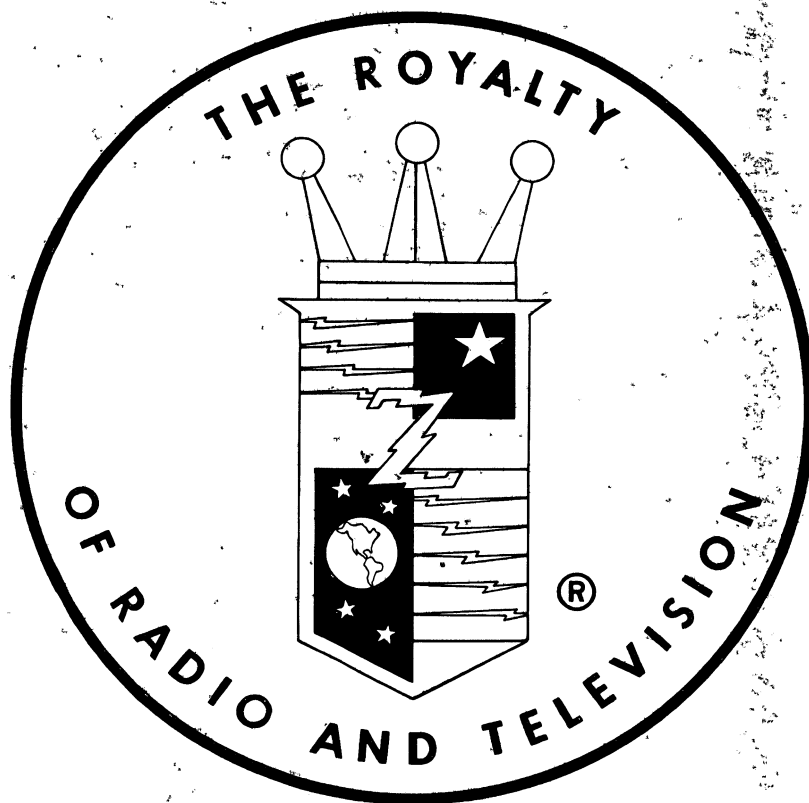
LEGEND CHASSIS 29A124											
ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
G016A		ARM ANTERIOR TURNING	C471	22-0012	15 MFD 50V	R338	83-1813	4.7K OHM	W617	83-0083	220K OHM
G016B		ARM ANTERIOR TURNING	C472	22-0012	15 MFD 50V	R339	83-1813	100K OHM	W618	83-0083	220K OHM
C190	22-4817	ARM DETECTOR TURNER	C473	22-0012	15 MFD 50V	R340	83-1813	100K OHM	W619	83-0083	220K OHM
C191		ARM DETECTOR TURNER	C474	22-0012	15 MFD 50V	R341	83-1813	100K OHM	W620	83-0083	220K OHM
C192		ARM DETECTOR TURNER	C475	22-0012	15 MFD 50V	R342	83-1813	100K OHM	W621	83-0083	220K OHM
C193		ARM DETECTOR TURNER	C476	22-0012	15 MFD 50V	R343	83-1813	100K OHM	W622	83-0083	220K OHM
C194		ARM DETECTOR TURNER	C477	22-0012	15 MFD 50V	R344	83-1813	100K OHM	W623	83-0083	220K OHM
C195		ARM DETECTOR TURNER	C478	22-0012	15 MFD 50V	R345	83-1813	100K OHM	W624	83-0083	220K OHM
C196		ARM DETECTOR TURNER	C479	22-0012	15 MFD 50V	R346	83-1813	100K OHM	W625	83-0083	220K OHM
C197		ARM DETECTOR TURNER	C480	22-0012	15 MFD 50V	R347	83-1813	100K OHM	W626	83-0083	220K OHM
C198		ARM DETECTOR TURNER	C481	22-0012	15 MFD 50V	R348	83-1813	100K OHM	W627	83-0083	220K OHM
C199		ARM DETECTOR TURNER	C482	22-0012	15 MFD 50V	R349	83-1813	100K OHM	W628	83-0083	220K OHM
C200		ARM DETECTOR TURNER	C483	22-0012	15 MFD 50V	R350	83-1813	100K OHM	W629	83-0083	220K OHM
C201		ARM DETECTOR TURNER	C484	22-0012	15 MFD 50V	R351	83-1813	100K OHM	W630	83-0083	220K OHM
C202		ARM DETECTOR TURNER	C485	22-0012	15 MFD 50V	R352	83-1813	100K OHM	W631	83-0083	220K OHM
C203		ARM DETECTOR TURNER	C486	22-0012	15 MFD 50V	R353	83-1813	100K OHM	W632	83-0083	220K OHM
C204		ARM DETECTOR TURNER	C487	22-0012	15 MFD 50V	R354	83-1813	100K OHM	W633	83-0083	220K OHM
C205		ARM DETECTOR TURNER	C488	22-0012	15 MFD 50V	R355	83-1813	100K OHM	W634	83-0083	220K OHM
C206		ARM DETECTOR TURNER	C489	22-0012	15 MFD 50V	R356	83-1813	100K OHM	W635	83-0083	220K OHM
C207		ARM DETECTOR TURNER	C490	22-0012	15 MFD 50V	R357	83-1813	100K OHM	W636	83-0083	220K OHM
C208		ARM DETECTOR TURNER	C491	22-0012	15 MFD 50V	R358	83-1813	100K OHM	W637	83-0083	220K OHM
C209		ARM DETECTOR TURNER	C492	22-0012	15 MFD 50V	R359	83-1813	100K OHM	W638	83-0083	220K OHM
C210		ARM DETECTOR TURNER	C493	22-0012	15 MFD 50V	R360	83-1813	100K OHM	W639	83-0083	220K OHM
C211		ARM DETECTOR TURNER	C494	22-0012	15 MFD 50V	R361	83-1813	100K OHM	W640	83-0083	220K OHM
C212		ARM DETECTOR TURNER	C495	22-0012	15 MFD 50V	R362	83-1813	100K OHM	W641	83-0083	220K OHM
C213		ARM DETECTOR TURNER	C496	22-0012	15 MFD 50V	R363	83-1813	100K OHM	W642	83-0083	220K OHM
C214		ARM DETECTOR TURNER	C497	22-0012	15 MFD 50V	R364	83-1813	100K OHM	W643	83-0083	220K OHM
C215		ARM DETECTOR TURNER	C498	22-0012	15 MFD 50V	R365	83-1813	100K OHM	W644	83-0083	220K OHM
C216		ARM DETECTOR TURNER	C499	22-0012	15 MFD 50V	R366	83-1813	100K OHM	W645	83-0083	220K OHM
C217		ARM DETECTOR TURNER	C500	22-0012	15 MFD 50V	R367	83-1813	100K OHM	W646	83-0083	220K OHM
C218		ARM DETECTOR TURNER	C501	22-0012	15 MFD 50V	R368	83-1813	100K OHM	W647	83-0083	220K OHM
C219		ARM DETECTOR TURNER	C502	22-0012	15 MFD 50V	R369	83-1813	100K OHM	W648	83-0083	220K OHM
C220		ARM DETECTOR TURNER	C503	22-0012	15 MFD 50V	R370	83-1813	100K OHM	W649	83-0083	220K OHM
C221		ARM DETECTOR TURNER	C504	22-0012	15 MFD 50V	R371	83-1813	100K OHM	W650	83-0083	220K OHM
C222		ARM DETECTOR TURNER	C505	22-0012	15 MFD 50V	R372	83-1813	100K OHM	W651	83-0083	220K OHM
C223		ARM DETECTOR TURNER	C506	22-0012	15 MFD 50V	R373	83-1813	100K OHM	W652	83-0083	220K OHM
C224		ARM DETECTOR TURNER	C507	22-0012	15 MFD 50V	R374	83-1813	100K OHM	W653	83-0083	220K OHM
C225		ARM DETECTOR TURNER	C508	22-0012	15 MFD 50V	R375	83-1813	100K OHM	W654	83-0083	220K OHM
C226		ARM DETECTOR TURNER	C509	22-0012	15 MFD 50V	R376	83-1813	100K OHM	W655	83-0083	220K OHM
C227		ARM DETECTOR TURNER	C510	22-0012	15 MFD 50V	R377	83-1813	100K OHM	W656	83-0083	220K OHM
C228		ARM DETECTOR TURNER	C511	22-0012	15 MFD 50V	R378	83-1813	100K OHM	W657	83-0083	220K OHM
C229		ARM DETECTOR TURNER	C512	22-0012	15 MFD 50V	R379	83-1813	100K OHM	W658	83-0083	220K OHM
C230		ARM DETECTOR TURNER	C513	22-0012	15 MFD 50V	R380	83-1813	100K OHM	W659	83-0083	220K OHM
C231		ARM DETECTOR TURNER	C514	22-0012	15 MFD 50V	R381	83-1813	100K OHM	W660	83-0083	220K OHM
C232		ARM DETECTOR TURNER	C515	22-0012	15 MFD 50V	R382	83-1813	100K OHM	W661	83-0083	220K OHM
C233		ARM DETECTOR TURNER	C516	22-0012	15 MFD 50V	R383	83-1813	100K OHM	W662	83-0083	220K OHM
C234		ARM DETECTOR TURNER	C517	22-0012	15 MFD 50V	R384	83-1813	100K OHM	W663	83-0083	220K OHM
C235		ARM DETECTOR TURNER	C518	22-0012	15 MFD 50V	R385	83-1813	100K OHM	W664	83-0083	220K OHM
C236		ARM DETECTOR TURNER	C519	22-0012	15 MFD 50V	R386	83-1813	100K OHM	W665	83-0083	220K OHM
C237		ARM DETECTOR TURNER	C520	22-0012	15 MFD 50V	R387	83-1813	100K OHM	W666	83-0083	220K OHM
C238		ARM DETECTOR TURNER	C521	22-0012	15 MFD 50V	R388	83-1813	100K OHM	W667	83-0083	220K OHM
C239		ARM DETECTOR TURNER	C522	22-0012	15 MFD 50V	R389	83-1813	100K OHM	W668	83-0083	220K OHM
C240		ARM DETECTOR TURNER	C523	22-0012	15 MFD 50V	R390	83-1813	100K OHM	W669	83-0083	220K OHM
C241		ARM DETECTOR TURNER	C524	22-0012	15 MFD 50V	R391	83-1813	100K OHM	W670	83-0083	220K OHM
C242		ARM DETECTOR TURNER	C525	22-0012	15 MFD 50V	R392	83-1813	100K OHM	W671	83-0083	220K OHM
C243		ARM DETECTOR TURNER	C526	22-0012	15 MFD 50V	R393	83-1813	100K OHM	W672	83-0083	220K OHM
C244		ARM DETECTOR TURNER	C527	22-0012	15 MFD 50V	R394	83-1813	100K OHM	W673	83-0083	220K OHM
C245		ARM DETECTOR TURNER	C528	22-0012	15 MFD 50V	R395	83-1813	100K OHM	W674	83-0083	220K OHM
C246		ARM DETECTOR TURNER	C529	22-0012	15 MFD 50V	R396	83-1813	100K OHM	W675	83-0083	220K OHM
C247		ARM DETECTOR TURNER	C530	22-0012	15 MFD 50V	R397	83-1813	100K OHM	W676	83-0083	220K OHM
C248		ARM DETECTOR TURNER	C531	22-0012	15 MFD 50V	R398	83-1813	100K OHM	W677	83-0083	220K OHM
C249		ARM DETECTOR TURNER	C532	22-0012	15 MFD 50V	R399	83-1813	100K OHM	W678	83-0083	220K OHM
C250		ARM DETECTOR TURNER	C533	22-0012	15 MFD 50V	R400	83-1813	100K OHM	W679	83-0083	220K OHM
C251		ARM DETECTOR TURNER	C534	22-0012	15 MFD 50V	R401	83-1813	100K OHM	W680	83-0083	220K OHM
C252		ARM DETECTOR TURNER	C535	22-0012	15 MFD 50V	R402	83-1813	100K OHM	W681	83-0083	220K OHM
C253		ARM DETECTOR TURNER	C536	22-0012	15 MFD 50V	R403	83-1813	100K OHM	W682	83-0083	220K OHM
C254		ARM DETECTOR TURNER	C537	22-0012	15 MFD 50V	R404	83-1813	100K OHM	W683	83-0083	220K OHM
C255		ARM DETECTOR TURNER	C538	22-0012	15 MFD 50V	R405	83-1813	100K OHM	W684	83-0083	220K OHM
C256		ARM DETECTOR TURNER	C539	22-0012	15 MFD 50V	R406	83-1813	100K OHM	W685	83-0083	220K OHM
C257		ARM DETECTOR TURNER	C540	22-0012	15 MFD 50V	R407	83-1813	100K OHM	W686	83-0083	220K OHM
C258		ARM DETECTOR TURNER	C541	22-0012	15 MFD 50V	R408	83-1813	100K OHM	W687	83-0083	220K OHM
C259		ARM DETECTOR TURNER	C542	22-0012	15 MFD 50V	R409	83-1813	100K OHM	W688	83-0083	220K OHM
C260		ARM DETECTOR TURNER	C543	22-0012	15 MFD 50V	R410	83-1813	100K OHM	W689	83-0083	220K OHM
C261		ARM DETECTOR TURNER	C544	22-0012	15 MFD 50V	R411	83-1813	100K OHM	W690	83-0083	220K OHM
C262		ARM DETECTOR TURNER	C545	22-0012	15 MFD 50V	R412	83-1813	100K OHM	W691	83-0083	220K OHM
C263		ARM DETECTOR TURNER	C546	22-0012	15 MFD 50V	R413	83-1813	100K OHM	W692	83-0083	220K OHM
C264		ARM DETECTOR TURNER	C547	22-0012	15 MFD 50V	R414	83-1813	100K OHM	W693	83-0083	220K OHM
C265		ARM DETECTOR TURNER	C548	22-0012	15 MFD 50V	R415	83-1813	100K OHM	W694	83-0083	220K OHM
C266		ARM DETECTOR TURNER	C549	22-0012	15 MFD 50V	R416	83-1813	100K OHM	W695	83-0083	220K OHM
C267		ARM DETECTOR TURNER	C550	22-0012	15 MFD 50V	R417	83-1813	100K OHM	W696	83-0083	220K OHM
C268		ARM DETECTOR TURNER	C551	22-0012	15 MFD 50V	R418	83-1813	100K OHM	W697	83-0083	220K OHM
C269		ARM DETECTOR TURNER	C552	22-0012	15 MFD 50V	R419	83-1813	100K OHM	W698	83-0083	220K OHM
C270		ARM DETECTOR TURNER	C553	22-0012	15 MFD 50V	R420	83-1813	100K OHM	W699	83-0083	220K OHM
C271		ARM DETECTOR TURNER	C554	22-0012	15 MFD 50V	R421	83-1813	100K OHM	W700	83-0083	220K OHM
C272		ARM DETECTOR TURNER	C555	22-0012	15 MFD 50V	R422	83-1813	100K OHM	W701	83-0083	220K OHM
C273		ARM DETECTOR TURNER	C556	22-0012	15 MFD 50V	R423	83-1813	100K OHM	W702	83-0083	220K OHM
C274		ARM DETECTOR TURNER	C557	22-0012	15 MFD 50V	R424	83-1813	100K OHM	W703	83-0083	220K OHM
C275		ARM DETECTOR TURNER	C558	22-0012	15 MFD 50V	R425	83-1813	100K OHM	W704	83-0083	220K OHM
C276		ARM DETECTOR TURNER	C559	22-0012	15 MFD 50V	R426	83-1813	100K OHM	W705	83-0083	220K OHM
C277		ARM DETECTOR TURNER	C560	22-0012	15 MFD 50V	R427	83-1813	100K OHM	W706	83-0083	220K OHM
C278		ARM DETECTOR TURNER	C561	22-0012	15 MFD 50V	R428	83-1813	100K OHM	W707	83-0083	220K OHM
C279		ARM DETECTOR TURNER	C562	22-0012	15 MFD 50V	R429	83-1813	100K OHM	W708	83-0083	220K OHM
C280		ARM DETECTOR TURNER	C563	22-0012	15 MFD 50V	R430	83-1813	100K OHM	W709	83-0083	220K OHM
C281		ARM DETECTOR TURNER	C564	22-0012	15 MFD 50V	R431	83-1813	100K OHM	W710	83-0083	220K OHM
C282		ARM DETECTOR TURNER	C565	22-0012	15 MFD 50V	R432	83-1813	100K OHM	W711	83-0083	220K OHM
C283		ARM DETECTOR TURNER	C566	22-0012	15 MFD 50V	R433	83-1813	100K OHM	W712	83-0083	220K OHM
C284		ARM DETECTOR TURNER	C567	22-0012	15 MFD 50V	R434	83-1813	100K OHM	W713	83-0083	220K OHM
C285		ARM DETECTOR TURNER	C568	22-0012	15 MFD 50V	R435	83-1813	100K OHM	W714	83-0083	220K OHM
C286		ARM DETECTOR TURNER	C569	22-0012	15 MFD 50V	R436	83-1813	100K OHM	W715	83-0083	220K OHM
C287		ARM DETECTOR TURNER	C570	22-0012	15 MFD 50V	R437	83-1813	100K OHM	W716	83-0083	220K OHM
C288		ARM DETECTOR TURNER	C571	22-0012	15 MFD 50V	R438					

6AT24 AND 29AT24 – CHASSIS LAYOUT

CIRCUIT BOARD



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ZENITH RADIO CORPORATION

1900 N. AUSTIN AVENUE

CHICAGO, ILLINOIS 60639

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