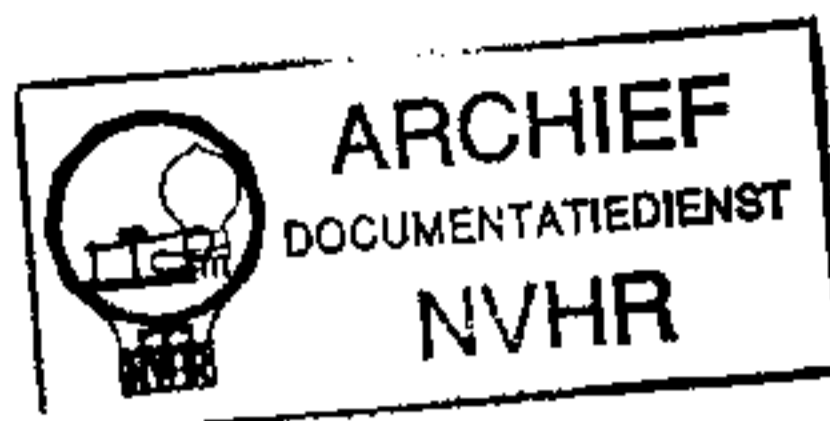


Met dank aan Jef Bos

Ned. Ver. v. Historie v/d Radio



MODEL GEN-1207A

TRADE NAME	Airline Models GEN-1206A, GEN-1207A		
SUPPLIER	Montgomery Ward & Co., 619 Chicago Ave., Chicago 7, Illinois		
TYPE SET	Battery Operated Transistorized Portable AM Receiver		
POWER SUPPLY	6 Volts DC	RATING	9MA @ 6 Volts DC (No Signal, Min. Volume)
TUNING RANGE—BROADCAST	540 - 1640KC		15MA @ 6 Volts DC (Signal, Normal Volume)

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading.

Required Alignment Tools:

- A1, A2, A3... GENERAL CEMENT #5097, 8727
WALSCO #2515
- A4, A6... GENERAL CEMENT #5004, 5008, 5009
WALSCO #2520
- A5... GENERAL CEMENT #8282, 8606, 8606-L, 9296, 9440
WALSCO #2526, 2543, 2544, 2545

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
High side thru .05mfd to base of Converter transistor. Low side to chassis.	455KC (400% Mod.)	Tuning gang fully open.	Across voice coil.	A1, A2, A3	Adjust for maximum output.
Loop	1640KC	"	"	A4	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
	535KC	Tuning gang fully closed.	"	A5	"
	1400KC	1400KC Signal	"	A6	"
	600KC	600KC Signal.	"	A7	Adjust by moving adjustable windings along ferrite core.

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

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PARTS LIST AND DESCRIPTIONS

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			RCA PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
X1	1520	Converter				PNP PNP PNP PNP PNP PNP PNP } Matched Pair
	2N1520*	Converter				
X2	1524	1st IF Amplifier				
	2N1524*	1st IF Amplifier				
X3	1524	2nd IF Amplifier				
	2N1524*	2nd IF Amplifier				
X4	2N400	Driver	2N400	2N362	2N400	
X5	2N400	Output	2N270	2N633	2N400	
X6	2N400	Output	2N270	2N633	2N400	

* Alternate

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA					NOTES
	μF	VOLT.	AIRLINE PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	
111	10	10	E3238	PTT39	NLW10-15	TT12X10	MLV10-10	TE-1114
112	10	10	E3238	PTT39	NLW10-15	TT12X10	MLV10-10	TE-1114
113	100	10	E3215	PTT46	NLW100-12	TT15X100	MLV100-10	TE-1119.3
114	100	10	E3215	PTT46	NLW100-12	TT15X100	MLV100-10	TE-1119.3

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					SPRAGUE PART No.
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	
115	10 NPO 10%		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
116	02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
117	01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
118	05		BPD-05	DD-503	H-05S5		GP150	5HK-S50
119	05		BPD-05	DD-503	H-05S5		GP150	5HK-S50
120	05		BPD-05	DD-503	H-05S5		GP150	5HK-S50
121	05		BPD-05	DD-503	H-05S5		GP150	5HK-S50
122	05		BPD-05	DD-503	H-05S5		GP150	5HK-S50
123	02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
124	005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA				INSTALLATION NOTES	
	RESISTANCE	WATTS	AIRLINE PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.		MALLORY PART No.
125	5000Ω	1/2	E2553	B-11	A47-5000-S	Q13-114	U12	Volume
126	1/2 watt			Not Req.	FS-3	Not Req.	Not Req.	Power Off-On
127	1/2 watt			KR-2	SWE-20	76-2	US-27	

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

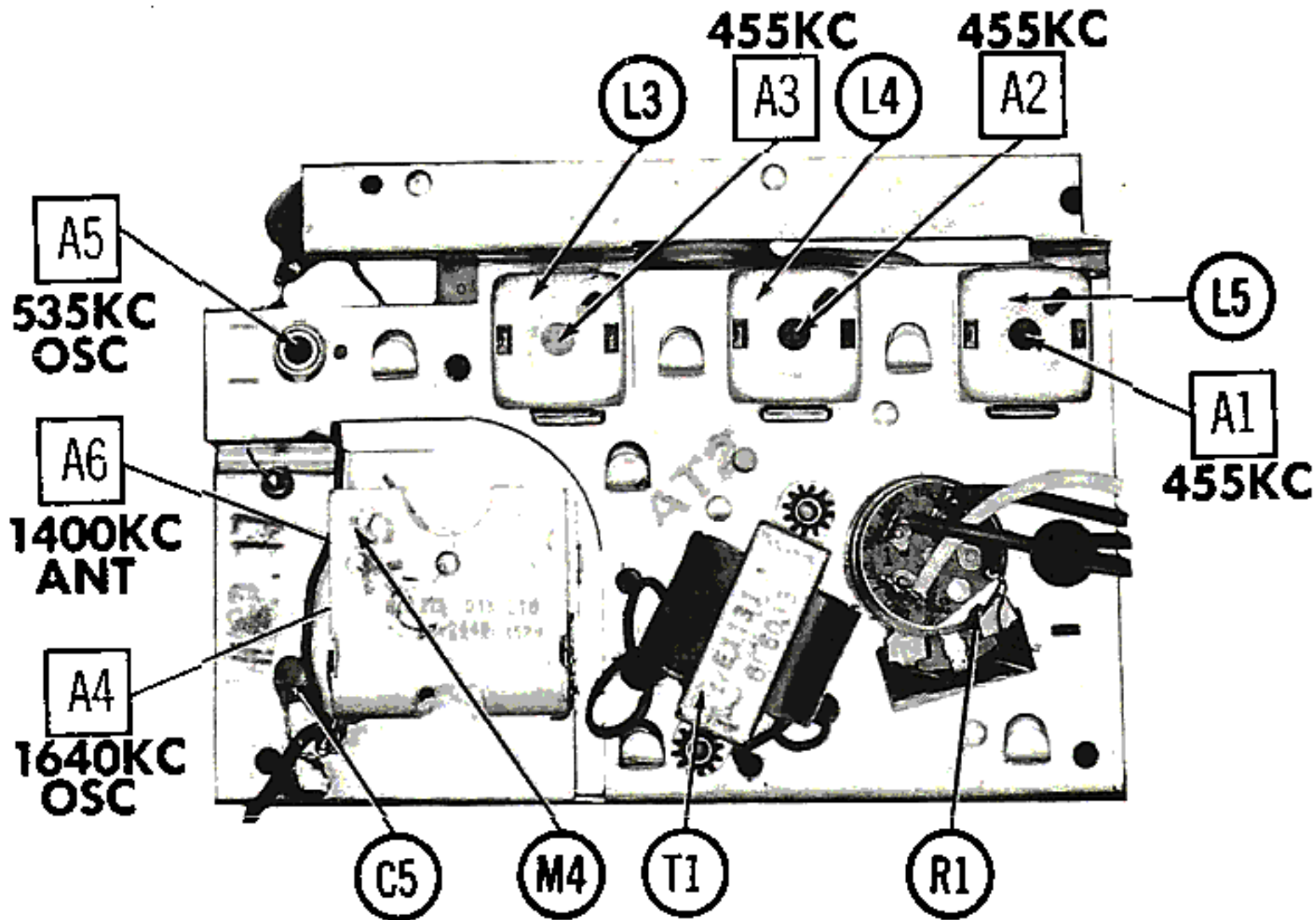
ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN TV PART No.	REMARKS			IRC PART No.	WORKMAN TV PART No.	REMARKS
128	15K				R9	470Ω			
129	3000Ω				R10	39K			
130	1800Ω				R11	270Ω			
131	2700Ω			Note 1	R12	8200Ω			
132	100K				R13	1Ω 1W			
133	330Ω				R14	1Ω 1W			
134	2200Ω								

Note 1. Not used in Model GEN-1206A

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	AIRLINE PART No.	REPLACEMENT DATA
K1	Driver Bias	100Ω, 470Ω, 5600Ω, 27K	E3032A	
K2	Output Bias	(2) 82Ω, (2) 1500Ω	E3033A	

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS (Continued)

COILS (RP-1P)

ITEM No.	UNIT	REPLACEMENT DATA					NOTES
		AIRLINE PART No.	Merit PART No.	Allen PART No.	Stancor PART No.	Wachman TV PART No.	
L1	Loopstick	E8043D					① Includes R4 & C7
L2	One.	E8140A ①					
L3	1st IF	E8257A					
L4	2nd IF	E8258A					
L5	3rd IF	E8259A					

TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	AIRLINE PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T1	2.6	1	E1131 ①					① Alternate Part #E1131B
		SEC. 2						
		1						

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	AIRLINE PART No.	QUAM PART No.	
SP1	4"	PM	14-16Ω	E1053B	4A1Z16	

BATTERIES

ITEM No.	VOLTAGE	AIRLINE PART No.	REPLACEMENT DATA						NOTES
			BURGESS		EVEREADY		MALLORY		
			"A"	"B"	"A"	"B"	"A"	"B"	
M1	1.5V	82-56 *		130 *		635 *		M-14R*	* 4 Required

SIGNAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA				NOTES
		AIRLINE PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
M2	RCA3458	E2412				Overload (Model GEN-1207A only) Detector
M3	RCA3458	E2412				

MISCELLANEOUS

ITEM No.	PART NAME	AIRLINE PART No.	NOTES
M4	Tuning Cap.	E3529	2 Gang

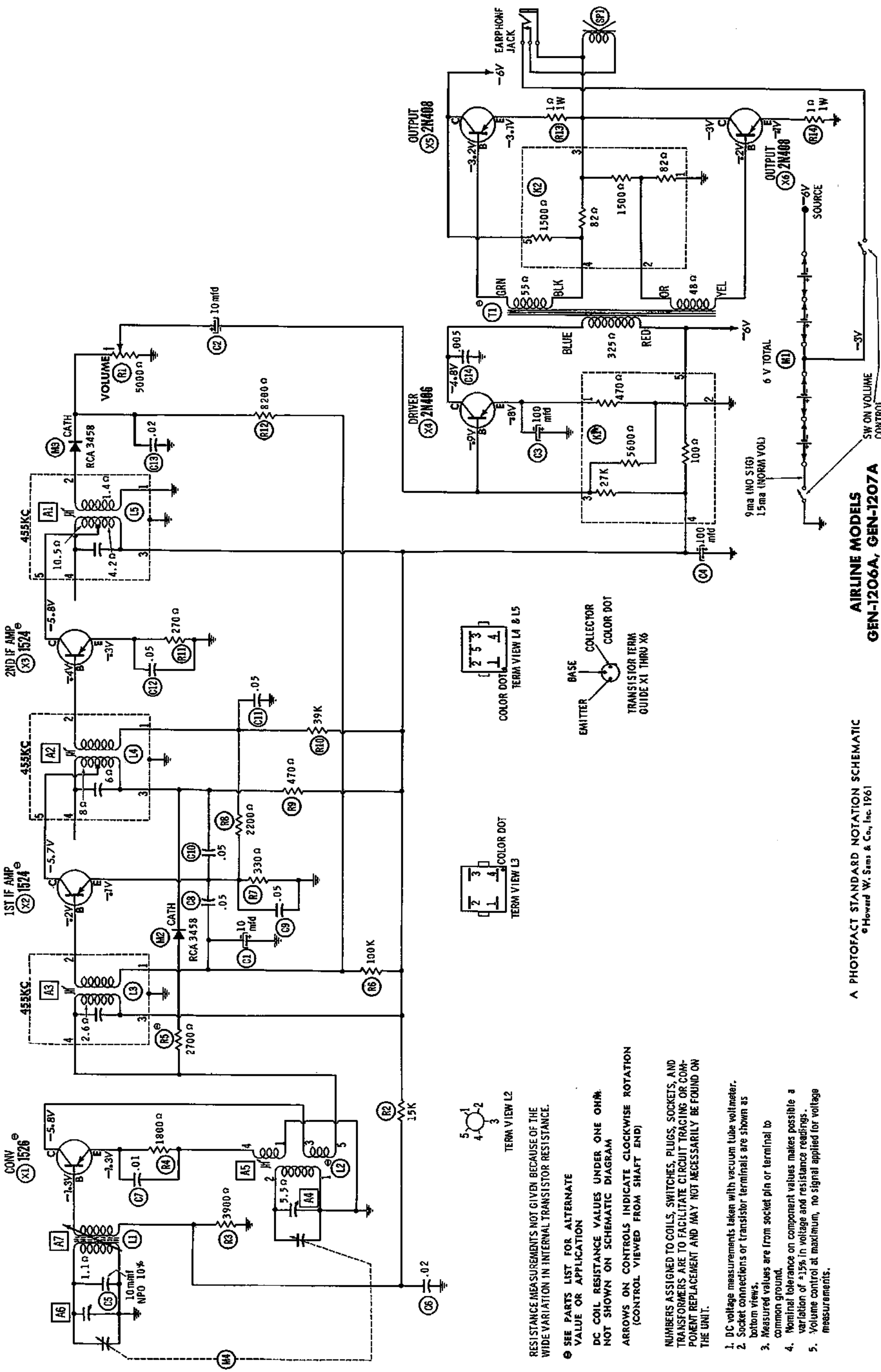
CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART NO.	DESCRIPTION
Knob	E50138B	Dial, Model GEN-1207A
Knob	E50112B	Dial, Model GEN-1206A
Knob	E50141A	Volume, Model GEN-1207A
Knob	E50140A	Volume, Model GEN-1206A
Knob	E50113B	Tuning, Model GEN-1207A
Knob	E50114B	Tuning, Model GEN-1206A
Cabinet	E70108D	Model GEN-1207A
Cabinet	E7094	Model GEN-1206A

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in Ten Colors
8524 (Stranded) Available in Ten Colors



A PHOTOFACT STANDARD NOTATION SCHEMATIC
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AIRLINE MODELS
 GEN-1206A, GEN-1207A

RESISTANCE MEASUREMENTS NOT GIVEN BECAUSE OF THE WIDE VARIATION IN INTERNAL TRANSISTOR RESISTANCE.

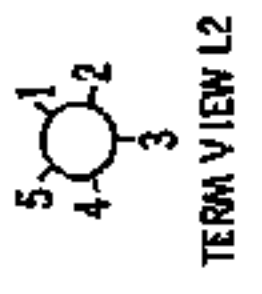
SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

DC COIL RESISTANCE VALUES UNDER ONE OHM, NOT SHOWN ON SCHEMATIC DIAGRAM

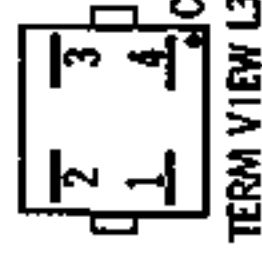
ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION (CONTROL VIEWED FROM SHAFT END)

NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

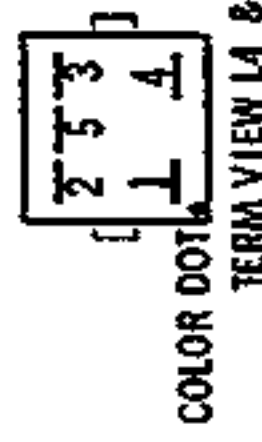
1. DC voltage measurements taken with vacuum tube voltmeter.
2. Socket connections or transistor terminals are shown as bottom views.
3. Measured values are from socket pin or terminal to common ground.
4. Nominal tolerance on component values makes possible a variation of ±15% in voltage and resistance readings.
5. Volume control at maximum, no signal applied for voltage measurements.



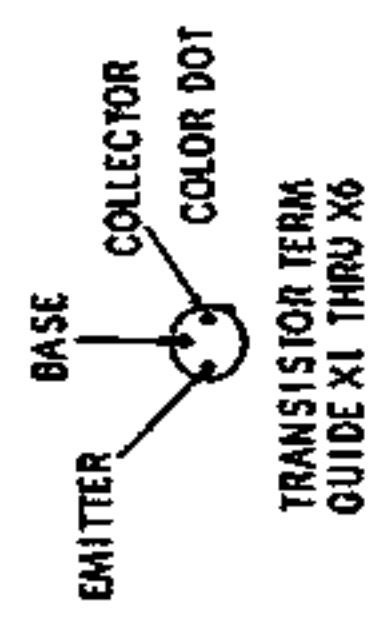
TERM VIEW L2



TERM VIEW L3



TERM VIEW L4 & L5



TRANSISTOR TERM GUIDE X1 THRU X6