

KNIGHT
MODEL KN-1515



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TRADE NAME	Knight Model KN-1515	
SUPPLIER	Allied Radio Corp., 100 N. Western Ave., Chicago 80, Illinois	
TYPE SET	AC Operated 2 Channel 30 Watt Audio Amplifier	
TUBES (Seven)	Type 6BH8 Right Channel AF Amp. -Phase Inv., (2)6BQ5/ EL84 Right Channel Output, 6BH8 Left Channel AF Amp. -Phase Inv., (2) 6BQ5/ E184 Left Channel Output, 5U4GB Rectifier	
POWER SUPPLY	105-130 Volts AC-50/ 60 Cycles	RATING 1.06 Amp. @ 117 Volts AC (110 Watts)

HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

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PARTS LIST AND DESCRIPTIONS TUBES (GENERAL ELECTRIC, PENNSYLVANIA)

ITEM No.	USE	TYPE
V1	Right Channel AF Amp. - Phase Inv.	6BH8
V2	Right Channel Output	6BQ5/EL84
V3	Right Channel Output	6BQ5/EL84
V4	Left Channel AF Amp. - Phase Inv.	6BH8

ITEM No.	USE	TYPE
V5	Left Channel Output	6BQ5/EL84
V6	Left Channel Output	6BQ5/EL84
V7	Rectifier	5U4GB

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA				SPRAGUE PART No.	
	CAP.	VOLT.	Knight PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.		PYRAMID PART No.
C1A	.40	450		AFH4-17	D0160	FP475.5	TMQ-17	Q-055
C1B	.10	450	Ⓛ					
C1C	.10	450	Ⓛ					
C1D	.10	450	Ⓛ					
C2	8	450		PRS450V8	BR845	TC7L	TD-8-450	MT-4508
C3	35	50		PRS150V30	BR505	TC47	TD-50-50	MT-0550

Ⓛ In some versions C1B is 30mfd, and C1C & C1D are not used.

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING		REPLACEMENT DATA				NOTES	
	CAP.	VOLT.	Knight PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.		SPRAGUE PART No.
C4	.47			NPO-DI 47	CI0647C	DTZ-47		5TCC-Q47
C5	.47			NPO-DI 47	CI0647C	DTZ-47		5TCC-Q47
C6	.47			NPO-DI 47	CI0647C	DTZ-47		5TCC-Q47
C7	.47			NPO-DI 47	CI0647C	DTZ-47		5TCC-Q47
C8	.047	600		P688N-047	DF-503	CUB6S47	GEM-6147	6TM-S47
C9	.047	600		P688N-047	DF-503	CUB6S47	GEM-6147	6TM-S47
C10	.047	600		P688N-047	DF-503	CUB6S47	GEM-6147	6TM-S47
C11	.047	600		P688N-047	DF-503	CUB6S47	GEM-6147	6TM-S47

CONTROLS

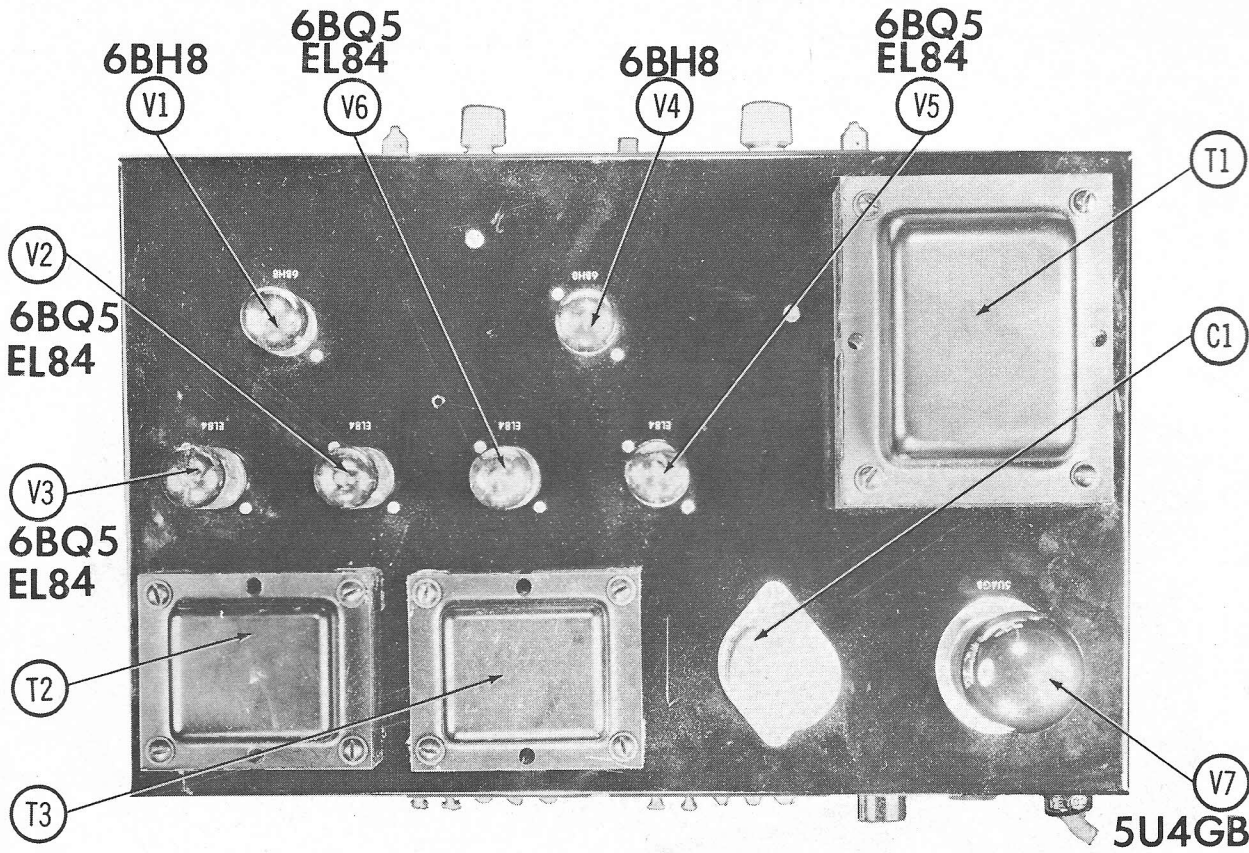
ITEM No.	RATING		REPLACEMENT DATA			INSTALLATION NOTES	
	RESISTANCE	WATTS	Knight PART No.	CENTRALAB PART No.	CLAROSTAT PART No.		IRC PART No.
R1A	500K	1/2		B-60	A47-500K-Z	Q13-133	U48
R2A	500K	1/2		Not req.	KSS-3	Not req.	Not req.
R2B	500K	1/2		Not req.	A47-500K-Z	Q13-133	U48
R2C	500K	1/2		Not req.	Kss-3	Not req.	Not req.

RESISTORS

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

ITEM No.	RATING		NOTES	Knight PART No.	Knight PART No.	NOTES
	OHMS	WATT				
R3	100K					
R4	220K					
R5	220K					
R6	22K					
R7	680Ω					
R8	15K	1				
R9	15K	1				
R10	100K					
R11	220K					
R12	220K					
R13	22K					
R14	680Ω					

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS (Continued)
TRANSFORMER (POWER)

ITEM No.	RATING		REPLACEMENT DATA					Triad PART No.
	PRI.	SEC. 1	Knightr PART No.	Hallidorsen PART No.	Meritt PART No.	Ram PART No.	Stancoor PART No.	
T1	117V @1.06A Tap 13V 8.3VCT @.001A @.4A	5V @2.5A	LP-0272					

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	Knightr PART No.	Hallidorsen PART No.	Meritt PART No.	Ram PART No.	Stancoor PART No.	
T2	4800Ω CT Taps 160, 80, 40	LO-0158						
T3	4800Ω CT Taps 160, 80, 40	LO-0158						

SELENIUM RECTIFIER

ITEM No.	RATING CURRENT (Measured)	REPLACEMENT DATA			NOTES
		Knightr PART No.	FEDERAL INTERNATIONAL PART No.	SARKES TARZIAN PART No.	
M1	.001A	1159	D-5410	10	

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA				
			Knightr PART No.	LITTELFUSE PART No.	BUSS PART No.	HOLDER	
M2	3AG	3A-125V-S/B		313003. (3AG-3A-125V-S/B)	341001	MDX3	HOLDER HKP

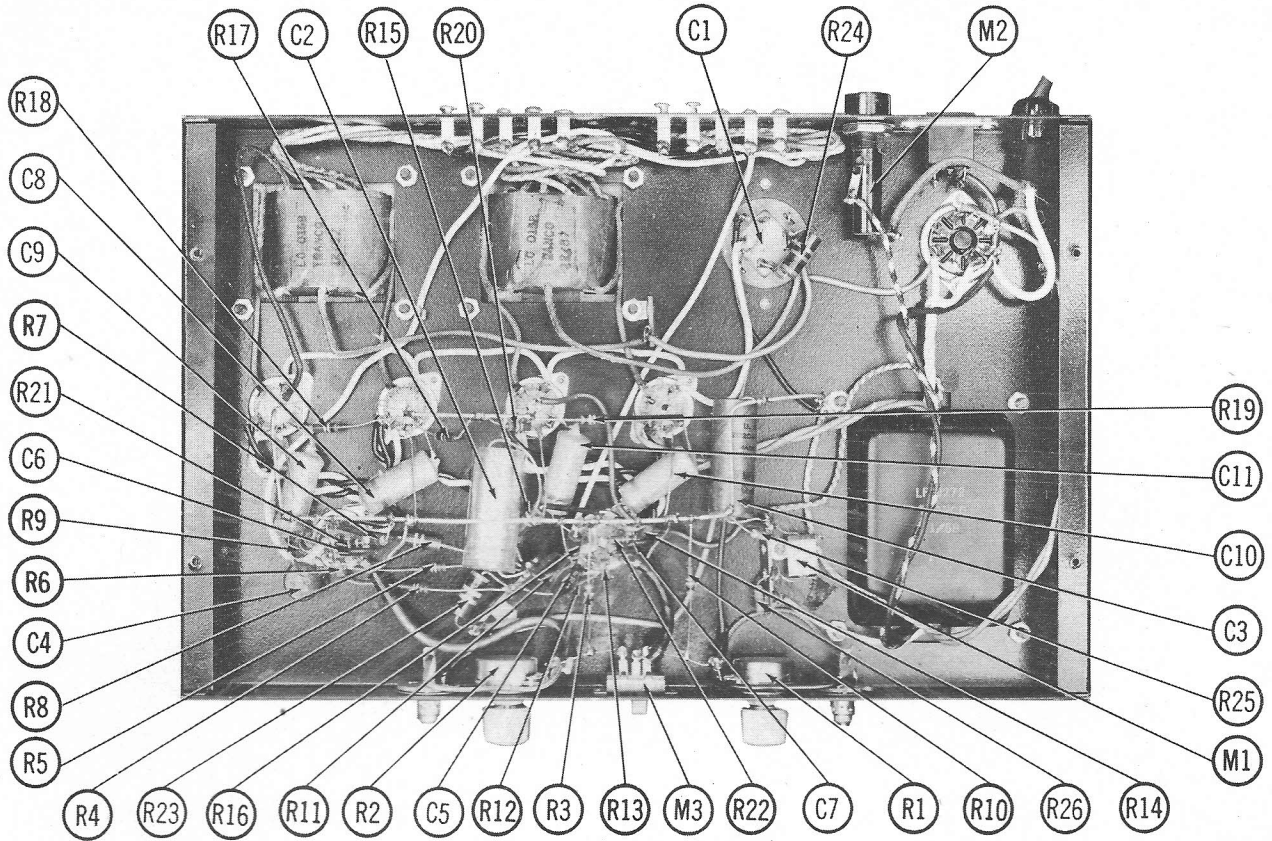
MISCELLANEOUS

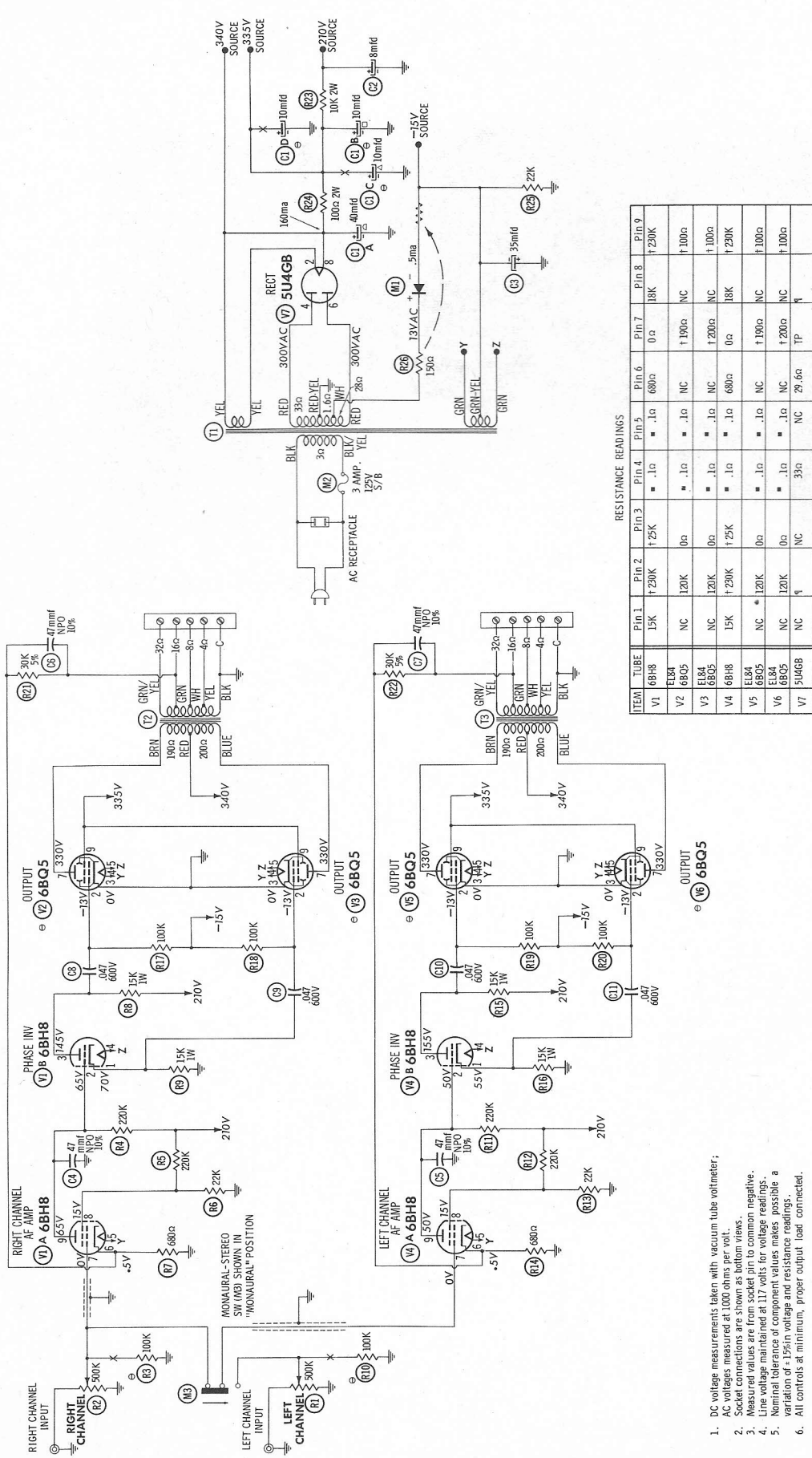
ITEM No.	PART NAME	Knightr PART No.	NOTES
M3	Switch		Stereo-Monaural, SPDT, slide Type

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8550 (Solid) Available in Ten Colors 8524 (Stranded) Available in Ten Colors
Power Cord	Use BELDEN No. 1765-B (6 Ft. Length) 1725-K (7½ Ft. Length)

CHASSIS—BOTTOM VIEW





RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6B8H	15K	†20K	†25K	†.1Ω	†.1Ω	680Ω	0Ω	18K	†20K
V2	6B8H	NC	120K	0Ω	†.1Ω	†.1Ω	NC	†190Ω	NC	†100Ω
V3	6B8H	NC	120K	0Ω	†.1Ω	†.1Ω	NC	†200Ω	NC	†100Ω
V4	6B8H	15K	†20K	†25K	†.1Ω	†.1Ω	680Ω	0Ω	18K	†20K
V5	6B8H	NC	†120K	0Ω	†.1Ω	†.1Ω	NC	†190Ω	NC	†100Ω
V6	6B8H	NC	120K	0Ω	†.1Ω	†.1Ω	NC	†200Ω	NC	†100Ω
V7	5U4GB	NC	†	NC	33Ω	NC	29.6Ω	†	†	†

THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC CAPACITOR CONNECTED IN THE ASSOCIATED CIRCUIT.
 † MEASURED FROM PIN 2 OF V7
 ‡ MEASURED FROM NEGATIVE TERMINAL OF M1
 NC NO CONNECTION
 TP TIE POINT

1. DC voltage measurements taken with vacuum tube voltmeter;
2. AC voltage measured at 1,000 ohms per volt.
3. Socket connections are shown as bottom views.
4. Measured values are from socket pin to common negative.
5. Line voltage maintained at 117 volts for voltage readings.
6. Nominal tolerance of component values makes possible a variation of ±15% in voltage and resistance readings.
7. All controls at minimum, proper output load connected.

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION
 DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM

A PHOTOFACT STANDARD NOTATION SCHEMATIC
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