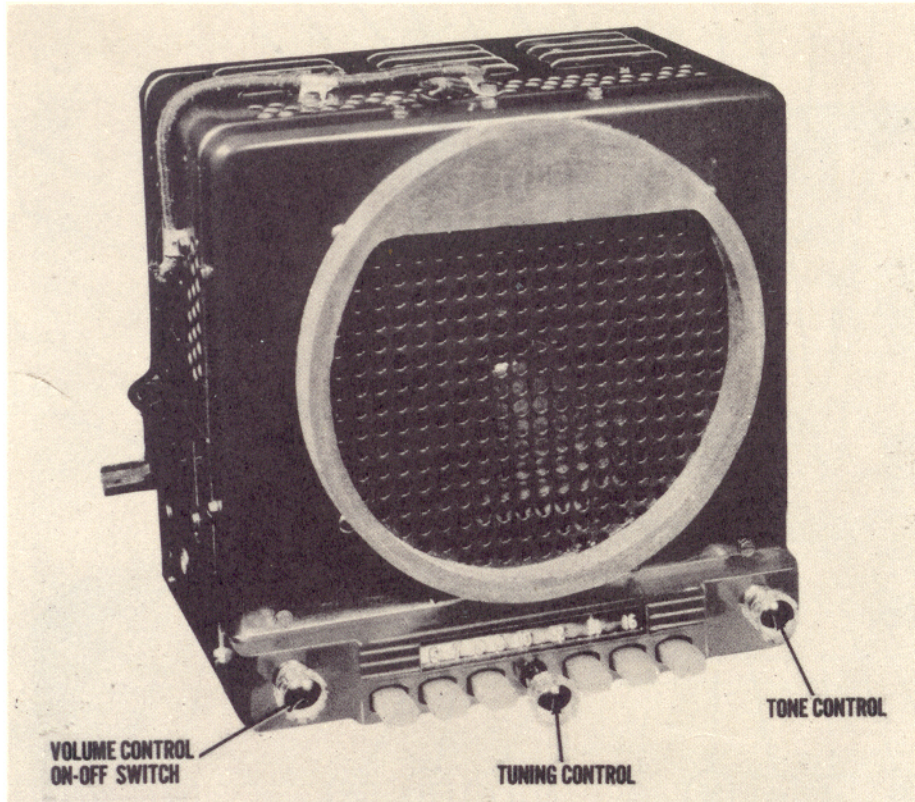


PACKARD MODEL PA382042 (PHILCO MODEL P-4635)



PACKARD MODEL PA382042 (PHILCO MODEL P-4635)

PACKARD MODEL PA 382042

TRADE NAME	Packard, Model PA 382042 (Philco Model P4635)		
SUPPLIER	Packard Motor Car Co., 1580 E. Grand Blvd., Detroit, Mich.		
TYPE SET	Battery Operated Custom Built Automotive Superheterodyne with Pushbutton Tuning		
TUBES (EIGHT)	Types, 7A7 RF Amp., 7B8 Converter, 7A7 IF Amp., 7B6 Det.-AVC-AF, 7A4 Phase Inverter, (2) 7C5 Power Output, 7Y4 Rectifier.		
POWER SUPPLY	6 Volt Storage Battery	RATING	7.9 Amp. @ 6.3 Volts DC
TUNING RANGE—BROADCAST	540-1600KC		

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

To set pointer turn tuning cap. fully closed and set pointer to last reference mark at low freq. end of dial. Sensitivity control should be at maximum sensitivity. Volume control should be at maximum position, output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting. After receiver is installed in car readjust A7 for maximum volume on a weak station near 1400KC. Set sensitivity control at low sensitivity if for local use only, if for distant stations set it for higher or maximum sensitivity.

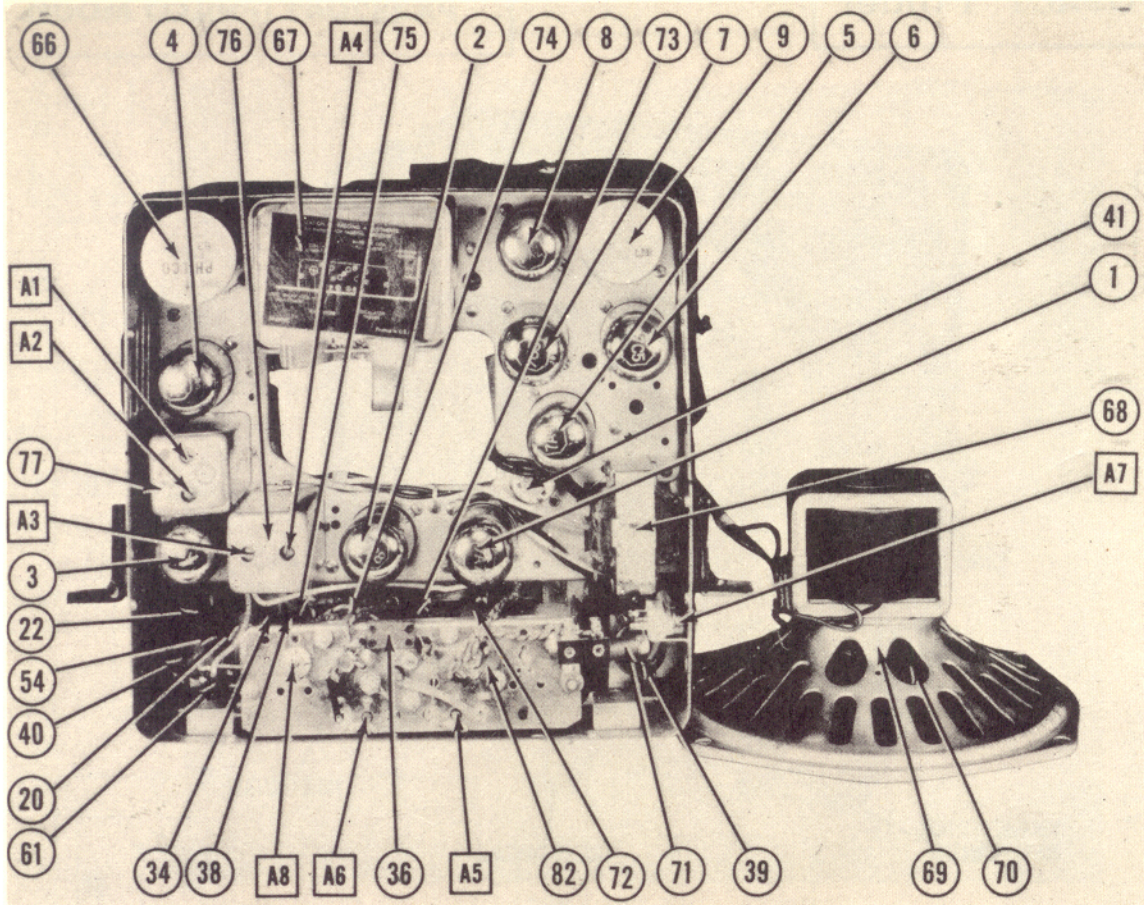
	DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1	.05 MFD	High side to ant receptacle. Low side to chassis.	265KC	1600KC	Across voice coil	A1,A2, A3,A4.	Short Pin 4 7B8 to ground. Adjust for maximum output in given order and repeat. Remove ground from Pin 4 of 7B8.
2	Connect a 30MFD cap. from ant. receptacle to chassis.	High side through a 20 MFD cap. to ant. receptacle. Low side to chassis.		"	"	A5	Adjust for maximum output.
3	"	"		Tune for maximum output.	"	A6,A7	" " " "
4	"	"		"	"	A8	Rock tuning cap. and adjust for maximum output. Repeat Steps 2, 3 and 4 until no further increase in output is obtained.

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CHASSIS TOP VIEW



PARTS LIST AND DESCRIPTIONS TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	INSTALLATION NOTES
		PACKARD (PHILCO) PART No.	STANDARD REPLACEMENT		
1	RF Amp. Converter	7A7	7A7	8V	
2	IF Amp.	7B6	7B6	8X	
3	Det.-AVC-AF	7A7	7A7	8V	
4	Phase Inv.	7B6	7B6	8M	
5	Power Output	7A4	7A4	5AC	
6	Power Output	7C5	7C5	6AA	
7	Rectifier	7Y4	7Y4	5AB	

CAPACITORS

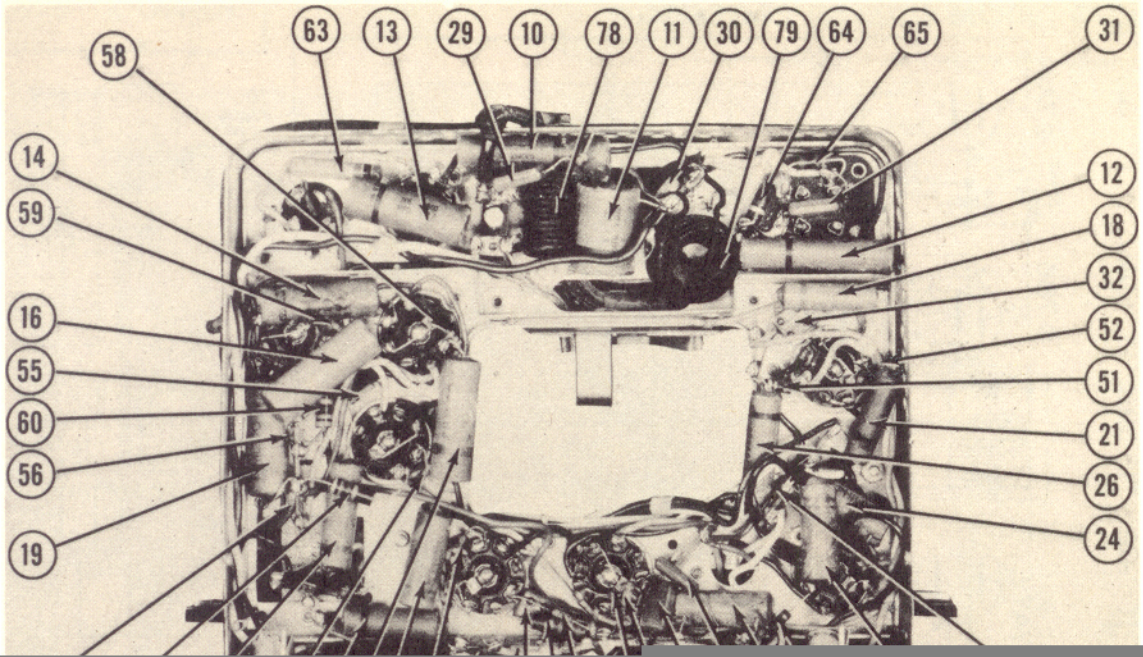
Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING	REPLACEMENT DATA					IDENTIFICATION CODES AND INSTALLATION NOTES	
		PACKARD (PHILCO) PART No.	AEROVOX PART No.	CORNELL DUBILIER PART No.	MALLORY PART No.	SOLAR PART No.		SPRAGUE PART No.
9A	20 CAP.	61-0150		UF9DJ50	FP424	DY-404	EL-415	Filter
10	5	61-0137	484-5	D74P5	TP431	S-4-5	TC-5	Cath. Bypass
11	5	61-0137	484-5	D74P5	TP431	S-4-5	TC-5	Hash Filter
12	5	61-0137	484-5	D74P5	TP431	S-4-5	TC-5	"
13	0.05	61-0153	1684-005	MD16B5	OT371	TM-10-005	TR-25	Buffer Plate Bypass
14	0.1	61-0124	1084-01	TVCI081	TP415	TM-6-05	TC-15	Output Plate Bypass
15	0.05	61-0170	684-05	D74S5	TP415	TM-6-05	TC-15	Audio Coupling
16	0.05	61-0170	684-05	D74S5	TP415	TM-6-05	TC-15	"
17	0.04	61-0129	1084-004	MD16B4	TP458	TM-16-004	TR-24	"
18	0.08	61-0174	684-008	MD16B8	TP458	TM-16-008	TR-28	Tone Compensation
19	0.1	61-0113	684-1	D76F1	TP418	TM-6-008	TC-1	RF Bypass Pwr. Supp
20	0.07	61-0152	484-07	D74E2	TP452	TM-6-1	TC-1	Tone Compensation
21	0.1	61-0176	484-01	D74S1	TP421	S-4-01	TC-11	Audio Coupling
22	0.25	61-0151	484-25	D74P25	TP430	S-4-25	TC-2	Audio Cath. Bypass
23	0.05	61-0111	484-05	D74S5	TP426	S-4-05	TC-15	IF Cath. Bypass
24	0.05	61-0111	484-05	D74S5	TP426	S-4-05	TC-15	Screen Bypass
25	0.05	61-0111	484-05	D74S5	TP426	S-4-05	TC-15	Conv. Cath. Bypass
26	0.05	61-0111	484-05	D74S5	TP426	S-4-05	TC-15	AVC Filter
27	0.05	61-0111	484-05	D74S5	TP426	S-4-05	TC-15	"
28	0.05	61-0111	484-05	D74S5	TP426	S-4-05	TC-15	RF Cath. Bypass
29	250	6010255007	1468-00025	SW5T25	MC240	MO.5-325	IFM-325	Hash Filter
30	250	6010255007	1468-00025	SW5T25	MC240	MO.5-325	IFM-325	"
31	250	6010255007	1468-00025	SW5T25	MC240	MO.5-325	IFM-325	"
32	100	6010105007	1468-00011	SW5T11	MC235	MO.5-31	IFM-31	Audio Plate Bypass
33	250	6010255007	1468-00025	SW5T25	MC240	MO.5-325	IFM-325	Osc. Anode Coupling
34	54.4	61-0149	1468-00011	SW5T11	MC235	MO.5-31	IFM-31	Fixed Trimmer Cer.
35	100	6010105007	1468-00011	SW5T11	MC235	MO.5-31	IFM-31	Osc. Grid Capacitor
36	100	6010105007	1468-00011	SW5T11	MC235	MO.5-31	IFM-31	Fixed Padder
37	250	6010255007	1468-00025	SW5T25	MC240	MO.5-325	IFM-325	RF Coupling
38	215	61-0148	1468-00025	SW5T25	MC240	MO.5-325	IFM-325	Fixed Trimmer

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		PACKARD (PHILCO) PART No.	MALLORY PART No.	CLAROSTAT PART No.	
39A	350X2	67-0052	DL3-132		Volume Control
39B	Shaft	Not Req.	N	41	Attach to 39A per instructions
40A	4 Meg. Shaft	67-0051	DL1-141	W	Tone Control
41	200 to 700Ω	67-0036			Attach to 40A per instructions Sensitivity Control

CHASSIS — BOTTOM VIEW



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PARTS LIST AND DESCRIPTIONS (Continued)

R F COILS

ITEM No.	USE	DC RES.		REPLACEMENT DATA	
		PRM.	SEC.	PACKARD (PHILICO) PART No.	MEISSNER PART No.
71	Ant. Choke Coil		1.2Ω	65-0378	
72	Ant. Coil		12Ω	65-0349	
73	RF Coil		11.5Ω	65-0359	
74	Osc. Coil		4.5Ω	65-0350	
75	Osc. Tracking Coil		12.5Ω	65-0351	
76	Input IF		53Ω	65-0352	16-6562
77	Output IF		602	65-0410	
78	A. Choke		0Ω	32-1644	
79	Vibrator Choke		0Ω	65-0151	

DIAL LIGHT

ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		INSTALLATION NOTES
					PACKARD (PHILICO) PART No.	MEISSNER PART No.	
80	Bayonet	6.3	0.25	Blue	34-2064		Type 44
81							

MISCELLANEOUS

ITEM No.	PART NAME	PACKARD (PHILICO) PART No.	NOTES
82	Tuner Unit	77-0891	
83	Fuse	45-2559	SFE-14
A5	Trimmer Cap.	63-0055	Osc. Adj.
A6	"	63-0052	RF Adj.
A7	"	31-8472	Ant. Adj.
84	Dial Marking and Solenoid Sw.	55-1350	
85	Solenoid	85-0125	Part of 77-0891
		65-0360	

- ADJUSTMENT
- Turn the lever on and allow it to warm up for about 15 minutes.
 - Push in any but the detuned station by turning the knurled knob in the button.
 - Check the accuracy of setting by detuning the channel control and retuning with pushbutton. If setting is off retune with knurled knob in the button.
 - To set the retuning button follow the same procedure outlined above.

RESISTANCE READINGS

ITEM	TUBE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8
1	7A7	0 Ω	130K Ω	150K Ω	0 Ω	0 Ω	1.3 MEG	650 Ω	.1 Ω
2	7B8	0 Ω	120K Ω	150K Ω	90K Ω	150K Ω	1.3 MEG	180 Ω	.1 Ω
3	7A7	0 Ω	120K Ω	150K Ω	0 Ω	0 Ω	1.2 MEG	320 Ω	.1 Ω
4	7B6	0 Ω	340K Ω	10MEG	380 Ω	380K Ω	380K Ω	460 Ω	.1 Ω
5	7A4	0 Ω	340K Ω	120K Ω	INF.	INF.	10 MEG	210K Ω	.1 Ω
6	7C5	0 Ω	120K Ω	120K Ω	INF.	INF.	460K Ω	300 Ω	.1 Ω
7	7C5	0 Ω	120K Ω	120K Ω	INF.	INF.	440K Ω	300 Ω	.1 Ω
8	7Y4	0 Ω	INF.	250 Ω	INF.	INF.	230 Ω	120K Ω	.1 Ω

VOLTAGE READINGS

ITEM	TUBE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8
1	7A7	0V.	135V.DC	75V.DC	0V.	0V.	-1V.DC	2.9V.DC	5.7V.DC
2	7B8	0V.	200V.DC	115V.DC	-2.8V.DC	75V.DC	-1V.DC	2V.DC	5.7V.DC
3	7A7	0V.	200V.DC	75V.DC	0V.	0V.	-1V.DC	2.7V.DC	5.7V.DC
4	7B6	0V.	88V.DC	-4V.DC	2V.DC	-5V.DC	-5V.DC	2V.DC	5.7V.DC
5	7A4	0V.	115V.DC	200V.DC	0V.	0V.	7V.DC	97V.DC	5.7V.DC
6	7C5	0V.	215V.DC	200V.DC	0V.	0V.	0V.	13V.DC	5.7V.DC
7	7C5	0V.	215V.DC	200V.DC	0V.	0V.	0V.	13V.DC	5.7V.DC
8	7Y4	0V.	0V.	250V.AC	0V.	0V.	250V.AC	220V.DC	5.7V.DC

RESISTANCE READINGS IN THE B+ CIRCUIT MAY VARY WIDELY ACCORDING TO THE CONDITION OF THE FILTER CAPACITORS

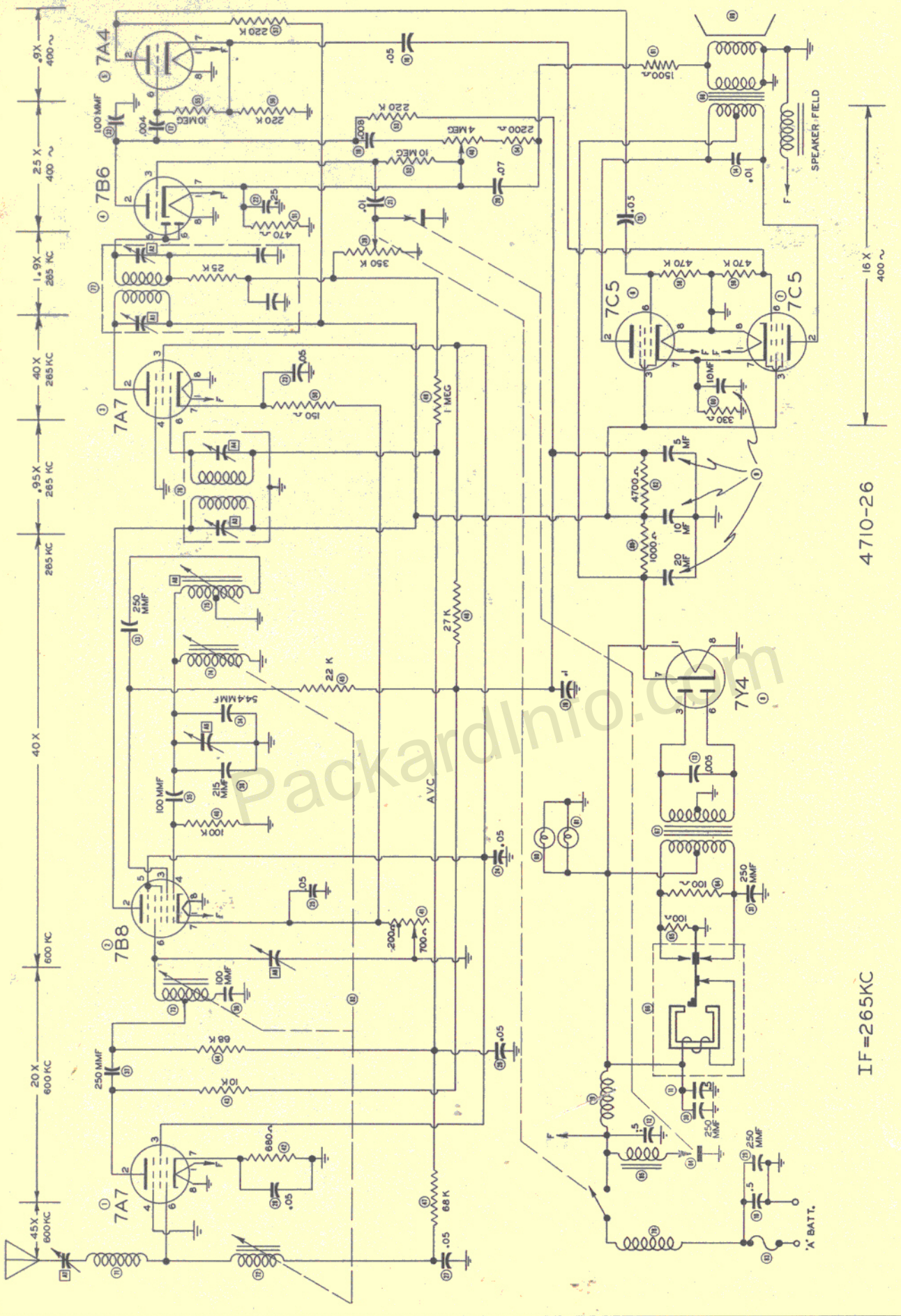
The stage gain measured values listed above are approximate values for an average operative stage, rather than an absolute value. It should be borne in mind that it is possible to introduce so many variables into the measurement operation such as, type of equipment used for measuring, handling and placement of probes, the accuracy of alignment, etc., that an absolute reading is impractical. AVC is made inoperative by connecting negative (-) 3 volts to the AVC line

DC Voltage measurements are at 20,000 ohms per volt. Voltages measured at 1000 ohms per volt.

Socket connections are shown as bottom views.

Measured values are from socket pin to common negative. Battery voltage maintained at 6.3 volts for voltage readings.

Nominal tolerance on component values makes possible variation of $\pm 15\%$ in voltage and resistance readings. Volume control at maximum, no signal applied for voltage measurements.



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IF=265KC