

# PHILCO . . . . . Model 620

**SERVICE BULLETIN**  
**No. 218A**



**For Members of**  
**RADIO MANUFACTURERS SERVICE**  
**A PHILCO SERVICE PLAN**

## Later 1935 Production Runs

This sheet supplements the regular bulletin No. 218 on the Philco Model 620. All circuit and part number changes up to date have been included.

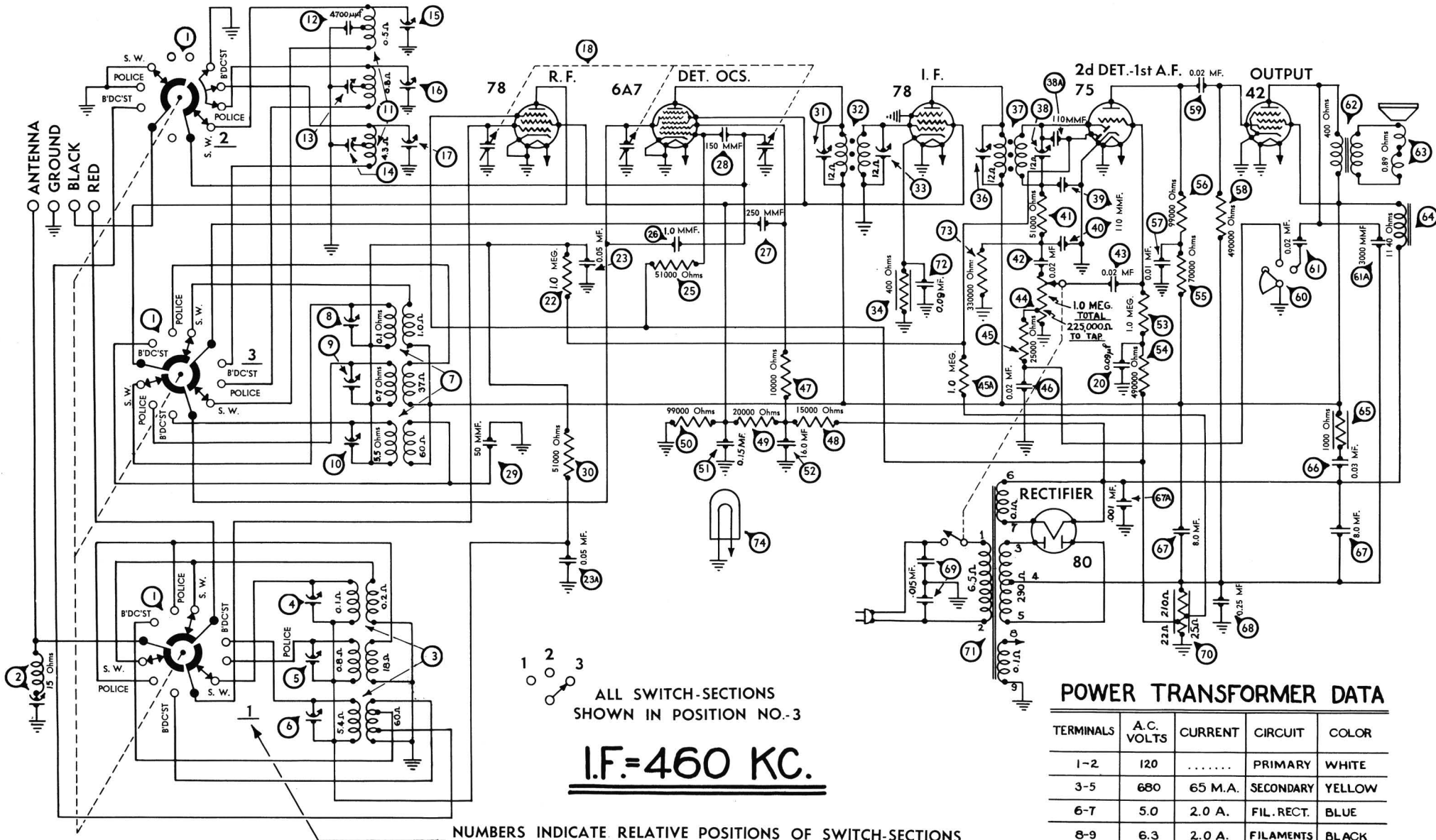
Beginning with run No. 7 the grid bias arrangement for

the 78 R.F. and 6A7 1st detector was changed. A fixed bias from the B.C. resistor is fed through the AVC circuit to the grids of these tubes. The oscillator circuit was changed to series feed to eliminate possibilities of failure at 6.0 mc.

## PARTS LIST

Description	Part No.	Price List	Description	Part No.	Price List	
① Waveband Switch	42-1152	\$1.75	⑤⑥ Resistor (99000 ohms) (White, White, Yellow)	6099	\$0.20	
② Wavetrap	38-6850	1.10	⑤⑦ Condenser (.15 Mfd. Tubular)	30-4191	.35	
③ Antenna Transformer	32-1699	3.00	⑤⑧ Condenser (16 Mfd. Electrolytic)	30-2118	1.65	
④ Compensating Condenser (Ant. S.W.)	Part of ③	....	⑤⑨ Resistor (1 Meg.) (Brown, Black, Green)	33-1096	.20	
⑤ Compensating Condenser (Ant. Police)	Part of ③	....	⑤⑩ Resistor (.5 Meg.) (Yellow, White, Yellow)	6097	.20	
⑥ Compensating Condenser (Ant. Standard)	Part of ③	....	⑤⑪ Resistor (70000 ohms) (Violet, Black, Orange)	33-1115	.20	
⑦ R. F. Transformer	32-1636	3.25	⑤⑫ Resistor (99000 ohms) (White, White, Yellow)	6099	.20	
⑧ Compensating Condenser (R.F. Short-Wave)	Part of ⑦	....	⑤⑬ Condenser (.09 Mf.)	4989-SG	.35	
⑨ Compensating Condenser (R.F. Police)	Part of ⑦	....	⑤⑭ Resistor (.5 meg.) (Yellow, White, Yellow)	6097	.20	
⑩ Compensating Condenser (R.F. Standard)	Part of ⑦	....	⑤⑮ Condenser (.03 Mfd. Bakelite)	8318-SU	.35	
⑪ Oscillator Transformer	32-1637	2.50	⑤⑯ Tone Control	30-4316	.75	
⑫ Condenser (.0047 Mfd. Mica)	30-1052	.60	⑤⑰ Condenser in Tone Control	Part of ⑯	....	
⑬ Compensating Condenser (Osc. Police)	Part of ⑪	....	⑤⑱a Condenser (.003 Mfd. Tubular)	30-4042	.25	
⑭ Compensating Condenser (Osc. H.F. Standard)	Part of ⑪	....	⑤⑲ Output Transformer	32-7019	1.25	
⑮ Compensating Condenser (Osc. S.W.)	Part of ⑪	....	⑤⑳ Voice Coil & Cone Assembly (S-14 Speaker)	36-3157	.80	
⑯ Compensating Condenser (Osc. L.F. Police)	Part of ⑪	....	⑤㉑ Field Coil & Pot Assembly (S-14 Speaker)	36-3495	2.75	
	Part of 31-6027	.70	⑤㉒ Resistor (1000 ohms) (Brown, Black, Red)	33-1028	.20	
⑰ Compensating Condenser (Osc. L.F. Standard)	Part of 31-6027	....	⑤㉓ Condenser (.3 Mfd. Bakelite Block)	6287-DU	.40	
⑱ Tuning Condenser Assembly	31-1741	....	⑤㉔ Condenser (8 Mfd. & 8 Mfd. Electrolytic)	30-2079	2.40	
⑲ Condenser (.09 Mfd. Twin Bakelite Block)	4989-DG	.40	⑤㉕a Condenser (.001 Mf.)	30-4310	.25	
⑳ Resistor (1. Meg.) (Red, Black, Green)	33-1096	.20	⑤㉕ Condenser (.25 Mfd. Tubular)	30-4146	.40	
㉑ Condenser (.05 Mfd. Tubular)	30-4020	.35	⑤㉕b Condenser (.015 Mfd. Bakelite Block)	3793-DG	.40	
㉑a Condenser (.05 Mfd. Tubular)	30-4020	.35	⑤㉖ Resistor (BC Wirewound, 22 ohms, 25 ohms, 210 ohms)	33-3222	.20	
㉒ Resistor (50000 ohms) (Green, Brown, Orange)	6098	.20	⑤㉖a Power Transformer (115 Volts 60 Cycles)	32-7381	4.00	
㉓ Condenser (1 Mmf.)	Part of ⑱	....		(115 Volts 25 Cycles)	32-7382	6.25
㉔ Condenser (.00025 Mfd. Mica)	30-1032	.35		(230 Volts 50 Cycles)	33-7383	4.50
㉕ Condenser (.00015 Mfd. Mica)	30-1033	.35	⑤㉗ Condenser (.1 Mfd. Tubular)	Part of ⑳	....	
㉖ Condenser (.00005 Mfd. Mica)	30-1029	.35	⑤㉘ Resistor (330,000 ohms) (Orange, Orange, Yellow)	33-1200	.20	
㉗ Resistor (51,000 ohms) (Green, Brown, Orange)	6098	.20	⑤㉘a Pilot Lamp	34-2064	.09	
㉘ Compensating Condenser (1st I.F. Primary)	Part of ㉗	....	⑤㉘b Dial Scale	27-5098	.25	
㉘a 1st I.F. Transformer	32-1646	2.25	⑤㉘c Dial Hub and Set Screw	31-1550	.15	
㉘b Compensating Condenser (1st I.F. Secondary)	Part of ㉗	....	⑤㉘d Dial Front Spring	28-2837	.10	
㉘c Resistor (400 ohms Flexible) (Yellow, Black, Brown)	33-3016	.20	⑤㉘e Knob (Station Selector)	27-4206	.12	
㉘d Compensating Condenser (2nd I.F. Pri.)	Part of ㉗	....	⑤㉘f Knob (Fine Tuning)	27-4207	.10	
㉘e 2nd I.F. Transformer	32-1647	2.25	⑤㉘g Knob (Waveband)	27-4219	.10	
㉘f Compensating Condenser (2nd I.F. Sec.)	Part of ㉗	....	⑤㉘h Knob (Tone, Volume)	27-4208	.10	
㉘fa Condenser (.00011 Mfd. Mica)	30-1031	.35	⑤㉘i Tube Shield	28-2726	.10	
㉘fb Condenser (.00011 Mfd. (Twin Bakelite)	8035-DG	.25	⑤㉘j Tube Shield Base	28-2725	.03	
㉘fc Condenser (.00011 Mfd. Mica)	Part of ㉗	....	⑤㉘k Tube Socket (4 Prong)	27-6034	.10	
㉘fd Resistor (50000 ohms) (Green, Brown, Orange)	6098	.20	⑤㉘l Tube Socket (6 Prong)	27-6036	.11	
㉘fe Condenser (.02 Mfd. Tubular)	30-4215	.30	⑤㉘m Tube Socket (7 Prong)	27-6037	.11	
㉘ff Condenser (.02 Mfd. Tubular)	30-4215	.30	⑤㉘n Speaker Plug Socket	27-6033	.08	
㉘fg Volume Control and On-Off Switch	33-5105	1.45	⑤㉘o Chassis Mtg. Screw	W-1495	1.50perC.	
㉘fh Resistor (25000 ohms) (Red, Green, Orange)	33-1013	.20	⑤㉘p Chassis Mtg. Washer (Rubber)	27-4198	.01	
㉘fi Resistor (1. Meg.) (Brown, Black, Green)	33-1096	.20	⑤㉘q Electric Cord and Plug	L-943-A	.60	
㉘fj Condenser (.02 Mfd. Tubular)	30-4215	.30	⑤㉘r Bezel	28-2928	.35	
㉘fk Resistor (10000 ohms) (Brown, Black, Orange)	4412	.20	⑤㉘s Bezel Glass	27-7887	.60	
㉘fl Resistor (15000 ohms) (Brown, Green, Orange)	5718	.35				
㉘fm Resistor (20000 ohms) (Red, Black, Orange)	6649	.20				

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



ALL SWITCH-SECTIONS SHOWN IN POSITION NO.-3

**I.F.=460 KC.**

NUMBERS INDICATE RELATIVE POSITIONS OF SWITCH-SECTIONS FROM FRONT OF CHASSIS.

**POWER TRANSFORMER DATA**

TERMINALS	A.C. VOLTS	CURRENT	CIRCUIT	COLOR
1-2	120	.....	PRIMARY	WHITE
3-5	680	65 M.A.	SECONDARY	YELLOW
6-7	5.0	2.0 A.	FIL. RECT.	BLUE
8-9	6.3	2.0 A.	FILAMENTS	BLACK
4	...	.....	CENTER TAP OF 3-5	YELLOW, GREEN TRACER