

# PHILCOPHONE . . . . . Models 901 & 902



## SERVICE BULLETIN No. 276 for members of RADIO MANUFACTURERS SERVICE

A PHILCO Service Plan

PHILCOPHONE is designed to provide communication between a Master Control Phone unit—Model 901 and one, two, three, or four Remote Phone units—Model 902. Model 901 operates from 115 Volts D.C. or 25 to 60 cycles A.C. Power Supply. The Power consumption is 45 watts.

Model 901 contains the amplifier, talk-listen switch, remote phone selector switch, terminal panel, dynamic speaker, and volume control.

Model 902 Remote Phone unit consists of a dynamic speaker and a terminal panel to which the cable is connected at the remote point. The schematic diagram (figure 1) shows the connections for one or four units to the Master Control unit.

Where it is desired to conceal the Remote Phone cables at the Master Unit—when three or four speakers are used—a special cable (8 foot long) part No. 45-2443 may be obtained. The connection for this cable is shown on the schematic diagram.

### SERVICE NOTES

In connecting the master and remote phones use only Philco twisted two wire cable, part No. L-1551 (black weather proof) or L-1591 (Ivory colored). Do not use untwisted wire.

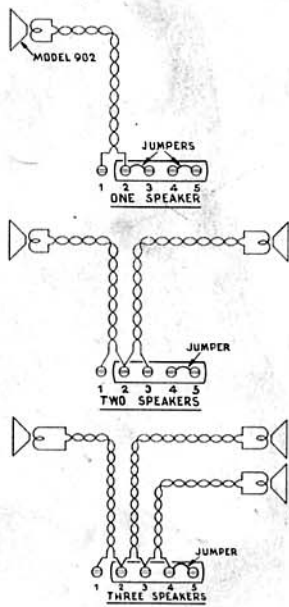
The interconnecting wire must be kept away from all open (unshielded) power wiring.

### Replacement Parts

Schem. No.	Description	Part No.	List Price
1	Resistor (2000 ohms, 1/2 watt)	33-220339	\$0.20
2	Condenser (.05 mfd. Tubular)	30-4020	.20
3	Resistor (240000 ohms, 1/2 watt)	33-424339	.20
4	Input Transformer	32-7817	
5	Condenser (.1 mfd. Dual Bakelite)	4989-ODU	.40
5a	Condenser (.1 mfd.)	Part of (5)	
6	Volume Control	33-5206	
7	Resistor (99000 ohms, 1/2 watt)	33-399339	.20
8	Electrolytic Condenser (10, 10 mfd. Dry)	30-2198	1.00
8a	Electrolytic Condenser (10mfd.)	Part of (8)	
9	Pilot Lamp Assembly	38-8620	
10	Resistor (490000 ohms, 1/2 watt)	33-449339	.20
11	Condenser (.01 mfd. Bakelite Single)	3903-OSU	.25

Schem. No.	Description	Part No.	List Price
12	Station Selector Switch	42-1320	
13	Talk Listen Switch	42-1319	
14	Filter Choke	32-7668	\$1.20
15	Output Transformer	32-7817	
16	Elect. Condenser (16, 16 mfd.)	30-2203	
17	Terminal Panel	38-8619	
18	Resistor (500 ohms, Bakelite)	33-1213	.20
19	Condenser (.006 mfd. tubular)	30-4445	.20
20	Filament resistor (173 ohms tapped)	33-3313	
21	Resistor (51000 ohms, 1/2 watt)	33-351339	.20
22	Resistor (99000 ohms, 1/2 watt)	33-399339	.20
23	Resistor (240000 ohms, 1/2 watt)	33-424339	.20
24	Condenser (110 mmfd. mica)	30-1031	.20
25	Speaker Assembly (DR3 speaker)	36-1337	

Schem. No.	Description	Part No.	List Price
26	Pilot Lamp	34-2068	
	Cable Speaker	L-2785	
	Cable Power	L-2778	
	Cable (Black, two wire, 100 ft.)	L-1551	\$3.00
	Cable (Ivory, two wire, 100 ft.)	L-1591	3.00
	Knob (Station Selector & Volume)	27-4332	.10
	Knob (Talk listen)	27-4326	.10
	Screen Pilot Lamp	27-5317	
	Shield Tubes	28-2726	.10
	Shield Chassis Bottom	27-8759	
	Speaker DR3	36-1337	
	Mtg. Clamp Speaker	28-3155	.01
	Mtg. Bolt Speaker	W-1604	.50C
	Mtg. Nut (Speaker)	W-124	.35C
	Mtg. Screw (Chassis)	W-1358	
	Mtg. Washer (Chassis)	28-2089	



WHEN USING ONE, TWO, OR THREE REMOTE PHONES, CONTROL UNIT TERMINAL PANEL MUST BE CONNECTED AS SHOWN ABOVE.

TUBE TYPES	CATH.	PLATE	SCREEN	FIL.
6K5G 1st AMP		50 V.		6.3 V.
6K5G 2nd AMP		45 V.		6.3 V.
25A6G OUTPUT	16 V.	115 V.	125 V.	25 V.
25Z6G RECT.	140V.			25V.

\* SOCKET VOLTAGES MEASURE FROM CONTACTS TO B MINUS.

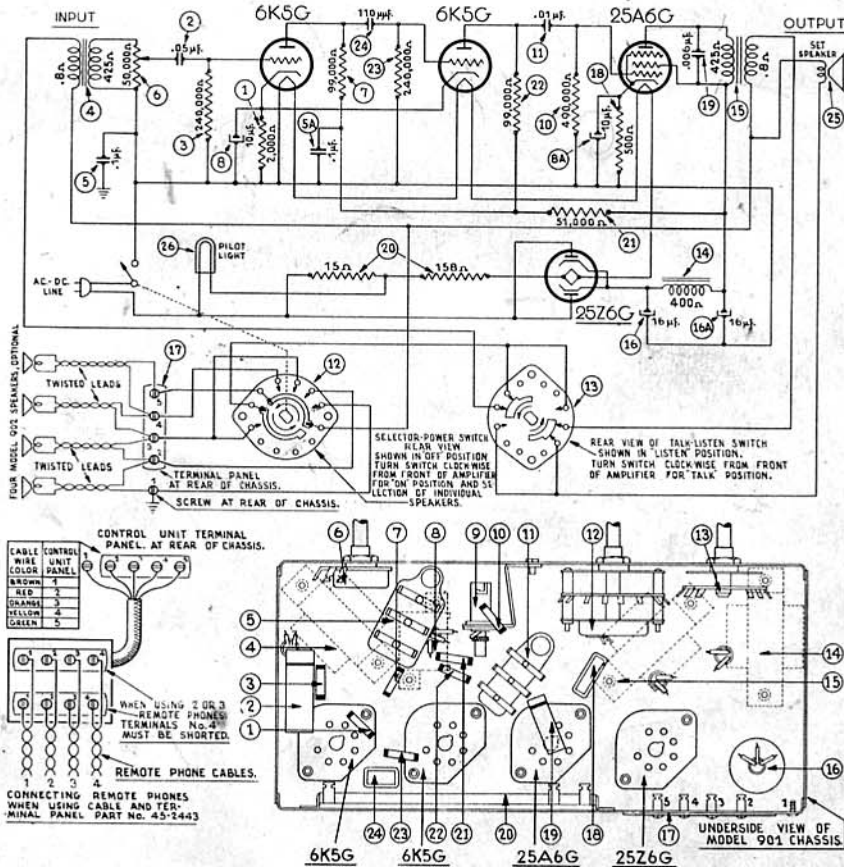


Fig. 1—Schematic Diagram and Base Layout Model 901