

# PHILCO TRANSITONE SERVICE BROADCAST

SEPTEMBER, 1933

## REPLACING THE CONTROL DIAL

REPLACING a dial in the control unit (Models 5 to 12, inclusive) should take but a few minutes, and can be done very easily by any service man.

Follow this procedure, step by step, when replacing the control dial:

1. Turn Radio to the "OFF" position. Do not lock it with the key.
2. Remove the keys and the knobs.
3. Remove the control from the mounting bracket.
4. Take out the two flat-head screws at the top and bottom in the rear of the control and remove the cover plate.
5. Remove the hex-head screw in the rear and take out the pilot lamp bracket plate.
6. Put the key back in the lock again and lock the control.
7. Reach in through the oblong opening in the rear of the control with a medium-sized screw driver and press down the brass retaining lock spring, at the same time working the key and lock cylinder forward (see Fig. 1).
8. With the lock removed, replace the dial with a new dial of the same part number.
9. Now depress the lock spring and replace the lock cylinder in the same relative position that it had when removed. The key must be in the lock.

10. Push the lock back in place, working the lock pin into the slot in the lock bar in back of the lock. Then

push the lock in until the retaining spring snaps in place.

11. Check the control for operation and then reassemble the control and fasten to the mounting bracket.

You should have a supply of replacement dials in stock.

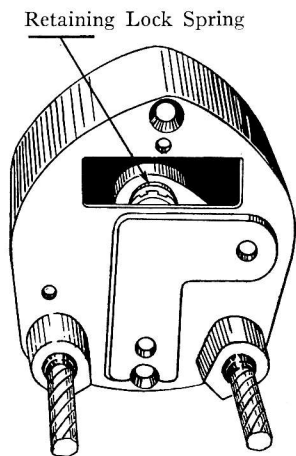


FIG. 1

Model	Dial Part No.
3	4461
5	27-5006
6	8255
B6	8257
9	8255
B9	8257
7	6043
8	6043
10	27-5022
12 (Code 121)	6043
12 (Code 122)	8255

## CHANGES—MODEL 10

Make the following changes in the Model 10 Parts List as printed in the August issue of Service Broadcast:

CHANGE	TO
② 30-1083	31-1083
③ 30-2027	30-4065
④ 32-7106	32-7102
⑤ 32-7109	32-1268
⑥ 32-1235	32-1259

### ADD

28-8139	Tuning Control Shaft (28")
28-8141	Volume Control Shaft (28")
28-8071	Spring Retaining Ring
27-7206	Fibre Spacing Ring (R. F.)
27-7221	Fibre Spacing Ring (I. F.)

## NEW R. F. AND I. F. TRANSFORMER MOUNTING

AN UNUSUAL but very effective method of mounting the R. F. and I. F. transformers is used in the Model 10. No metal brackets, screws or rivets are used.

An examination of the R. F. shield will show a cylindrical can with an indentation in the top of the can (see Fig. 2). The R. F. coil forms are cylindrical likewise and have a rectangular cut-out on the top edge. A fibre spacing ring is fitted around the lower end of the form. This spaces the transformer from the shield and holds it in position. The top end of the coil fits around the can indentation and the key formation in the top engages the slot in the end of the coil form and prevents it from turning.

In assembling, the coil is dropped into the can and turned until the key formation and slot are properly engaged. A spring-retaining ring is then placed inside the can and pushed up tightly against the fibre spacing ring. In doing this, the spring retainer will expand and lock in place in the rounded groove that encircles the shield (see Fig. 2 also). The coil form is rigidly held in place and is always centered.

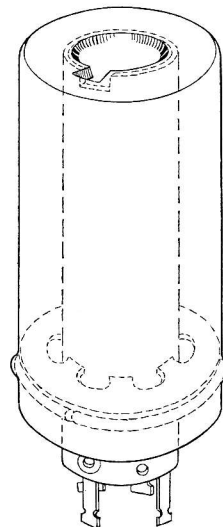


FIG. 2

To remove a transformer for replacement, after disconnecting the leads it is an easy matter to pick out the spring-retaining ring and remove the transformer from the shield.

The I. F. transformers are assembled with the primary and secondary padders mounted on the top of the transformers. All necessary adjustments to the padders must be made through the top of the shield. Owing to the construction of the I. F. transformers, the top of the transformer is rigidly held in place by means of two bolts and nuts, which extend through the top of the shield.

The lower portion of the transformer is provided with the fibre spacing ring to center it and hold it in place. The same type spring-retaining ring is used to lock the transformer in place.

When removing an I. F. transformer, the nuts must be removed from the bolts at the top of the shield. The spring retainer can then be picked out and the I. F. transformer removed for replacement.

Spring Retaining Ring	Part No. 28-8071
Fibre Spacing Ring (R. F.)	Part No. 27-7206
Fibre Spacing Ring (I. F.)	Part No. 27-7221

**PHILCO TRANSITONE SERVICE BROADCAST**

**TRANSITONE PARTS PRICES \* Effective October 2, 1933**

**(DESTROY ALL PREVIOUS PARTS PRICE LISTS)**

<i>Part No.</i>	<i>Description</i>	<i>Last Price</i>	<i>Part No.</i>	<i>Description</i>	<i>Last Price</i>	<i>Part No.</i>	<i>Description</i>	<i>Last Price</i>
2515	Output Transformer	\$1.80	6208	Resistor (15,000)	\$0.24	06253	Dynamotor for MB6	\$21.95
2565	Output Transformer	1.68	6298	Volume Control Shaft (48")	2.40	06256	Battery Cable	3.90
2589	Output Transformer	2.10	6299	Tuning Control Shaft (48")	2.40	06574	Antenna Transformer	.60
2598	Output Transformer	1.50	6351	Volume Control Shaft (18")	1.20	06914	Antenna Transformer	.72
2706	Output Transformer	2.40	6352	Tuning Control Shaft (18")	1.20	06915	Interstage Transformer	.66
2710	Speaker Housing	1.20	6355	Volume Control Shaft (120")	4.80	06916	Oscillator Coil	.78
3082	Condenser (.00025 mfd.)	.24	6356	Tuning Control Shaft (120")	4.80	06931	Battery Cable (Packard)	3.60
3164	Fibre Wrench	.18	6359	Condenser (.06 mfd.)	.48	06932	I. F. Transformer	.84
3241	Audio Transformer	3.30	6443	Condenser (.0007 mfd.)	.19	048	Philco All-Purpose Set Tester	81.00
3256A	R. F. Choke	.30	6511	Resistor (2.7)	.19	095	Philco Oscillator	57.00
3525	Resistor (32,000)	.24	6582	Input Transformer	2.40	27-5006	Dial (M-5)	.30
3615C	Condenser (.95 mfd. with 250 ω)	.36	6602	Filter Choke (M-8)	1.50	27-5022	Dial (M-10)	.30
3615N	Condenser (.05 mfd.)	.24	6608	Pilot Lamp	.17	27-7131	Fuse Insulator	Per 100 1.20
3615P	Condenser (.05 mfd. with 250 ω)	.36	6649	Resistor (20,000)	.24	27-7132	Washer	Per 100 .42
3615AE	Condenser (.05 mfd.)	.24	6650	Resistor (20,000)	.30	27-7133	Contact (Fuse)	Per 100 1.20
3615AG	Condenser (.05 mfd.)	.24	6655	Dynamotor Housing	1.20	28-1269	Fuse Housing	Per 100 1.20
3615AK	Condenser (.05 mfd.)	.24	6658	Filter Choke	1.50	28-1270	Male Cap (Fuse)	Per 100 1.20
3615AN	Condenser (.05 mfd.)	.30	6853	Condenser (.002 mfd.)	.36	28-6036	Studs	Per 100 3.60
3615AT	Condenser (.05 mfd.)	.24	6977	Resistor (500)	.24	28-8006	Control Shaft (Tuning)	1.32
3615AY	Condenser (.05 mfd.)	.24	7071	Tuning Control Shaft (132")	5.40	28-8007	Control Shaft (Volume)	1.38
3615AZ	Condenser (.05 mfd.)	.24	7072	Volume Control Shaft (132")	5.40	28-8009	Spring	Per 100 .48
3656	Resistor (25,000)	.24	7096	Relay	1.08	28-8139	Control Shaft (Tuning)	.85
3767	Resistor (100,000)	.24	7122	Battery Plug (6-hole)	.42	28-8141	Control Shaft (Volume)	.85
3768	Resistor (250,000)	.24	7123	Plug Cap	.12	30-1002	Condenser (.006 mfd.)	.60
3774	Condenser (.00005 mfd.)	.30	7155	Resistor (30)	.24	30-1083	Superseded by 31-1083	
3775B	R. F. Transformer	.84	7217	Resistor (200)	.18	30-2015	Filter Condenser	1.20
3793D	Condenser (.015 mfd.)	.19	7227	Fuse (15 amp.)	.12	30-2027	Superseded by 30-4065	
3903Y	Condenser (.01 mfd.)	.19	7289	Tuning Control Shaft (72")	3.00	30-4007	Interference Cond. (1/2 mfd.)	.60
3910	Condenser (.0005 mfd.)	.24	7290	Volume Control Shaft (72")	3.00	30-4010	Condenser (4 mfd., 8 mfd.)	1.92
4059	Condenser (.002 mfd.)	.36	7322	Volume Control	1.80	30-4015	Condenser (.5 mfd.)	.60
4237	Resistor (50,000)	.24	7352	Resistor (6,000)	.24	30-4017	Filter Cond. (.25, .25, .5, 20 mfd.)	1.80
4372A	Tuning Condenser	6.60	7440	Condenser (10 mfd.)	.90	30-4018	Condenser (.5 mfd.)	.60
4401A	Antenna Transformer	.96	7443	Tuning Control Shaft (84")	3.30	30-4020	Condenser (.05 mfd.)	.14
4401B	R. F. Transformer	.72	7444	Volume Control Shaft (84")	3.30	30-4024	Condenser (.006 mfd.)	.36
4407	Resistor (Wire Wound)	.34	7525	Volume Control (M-6-9)	1.80	30-4039	Condenser (.05 mfd.)	.18
4408	Resistor (Wire Wound)	.36	7535	Auto Transformer	2.70	30-4048	Condenser (.5 mfd.)	.60
4409	Resistor (1,000,000)	.24	7552	Audio Transformer	2.70	30-4051	Condenser (.01 mfd.)	.15
4410	Resistor (250,000)	.24	7652	Input Transformer	1.92	30-4051	Tone Control	.60
4411	Resistor (100,000)	.24	7741	Dial (early B6)	.24	30-4056	Condenser (.5 mfd.)	.60
4412	Resistor (10,000)	.24	7774	Condenser (20 mfd.)	.90	30-4058	Condenser (.5 mfd.)	.60
4414	Resistor (1,000,000)	.24	7775	Resistor (2,500)	.24	30-4061	Condenser (20 mfd., .25 mfd.)	1.20
4415	Tube Socket	.19	7835	Resistor (8,000)	.18	30-4065	Tuning Condenser	3.60
4416	Tube Socket	.24	7838	Resistor (100)	.18	31-1019	Tuning Condenser	4.00
4418	Condenser (2.0 mfd.)	1.80	8255	Dial (M-6-9)	.24	31-1083	Padder (Prim. 1st I. F.)	.35
4419	Condenser (1.0 mfd.)	.48	8257	Dial (B6)	.24	31-6007	Padder (Prim. and 2nd I. F.)	.35
4420	Condenser (1.0 mfd.)	.72	8267	Resistor (13,000)	.24	31-6008	R. F. Choke (Low Voltage)	.48
4441A	Steering Column Control	13.20	8291	Tuning Control Shaft (144")	6.00	32-1078	Antenna Transformer	.48
4443	Bezel Plate	.30	8292	Volume Control Shaft (144")	6.00	32-1083	Oscillator Coil	.42
4461	Dial	.42	02688	Field Coil Assembly	2.40	32-1084	First I. F. Transformer	.66
4462	Switch	.72	02794	Field and Frame	4.80	32-1085	Second I. F. Transformer	.66
4463	Volume Control (M-3)	1.50	02795	Field Assembly	2.70	32-1086	Antenna Transformer	.45
4465	Battery Box (large)	3.90	02823	Speaker Cone	.54	32-1087	R. F. Transformer	.55
4485	Audio Choke	1.80	02984	Speaker Extension	.90	32-1220	Oscillator	.45
4487	Condenser (.25 mfd.)	.48	03334	Knob (complete)	.06	32-1221	Superseded by 32-1259	
4505	Flexible Shaft (18" M-3)	1.56	04000A	Compensator	.14	32-1222	Vibrator Choke	.25
4507	Flexible Shaft (12" M-3)	1.20	04000D	Compensator	.12	32-1235	A Choke	.25
4508	Flexible Shaft (27" M-3)	2.04	04000J	Compensator	.24	32-1259	Output Transformer	1.50
4509	Flexible Shaft (36" M-3)	2.52	04000M	Padder	.19	32-1268	Filter Choke	1.02
4510	Flexible Shaft (45" M-3)	3.00	04000R	Compensator	.42	32-7005	Transformer	2.40
4516	Resistor (25,000)	.24	04000S	Compensator	.30	32-7026	B Choke	1.00
4518	Resistor (50,000)	.24	04000X	Compensator	.19	32-7030	Power Transformer	2.25
4519	Condenser (.00011 mfd.)	.22	04000Y	Padder	.14	32-7038	Output Transformer	1.50
4520	Condenser (.0007 mfd.)	.24	04308	Tuning Condenser	6.30	32-7098	Superseded by 32-7102	
4522	Condenser (Interference)	1.20	04342	R. F. Choke	1.20	32-7102	Superseded by 32-1268	
4531	Spark Plug Resistor	.60	04343	Control Unit (6, 7, 8, 9, 12)	6.90	32-7106	Field Coil	1.02
4539	Battery Plug (4-hole)	.48	04345	Top Cover	.42	32-7109	Spark Plug Resistor (Chrysler)	.42
4540	Fuse (1 amp.)	.06	04348	Antenna Transformer	.90	32-9013	Spark Plug Resistor (Packard)	.42
4546	Distributor Resistor	.60	04352	I. F. Transformer	1.32	33-1015	Dist. Resistor (Packard)	.42
4567	Pilot Lamp	.22	04353	I. F. Transformer	1.32	33-1016	Resistor (2,000,000 ohms)	.24
4593	Fuse Holder	.36	04354	Condenser	1.32	33-1017	Resistor (400 ohms)	.12
4705	Switch	1.20	04356	Oscillator Coil	1.50	33-1025	Resistor (1000 ohms)	.12
4851	Resistor	.60	04360	Condenser (.25 mfd.)	.48	33-3016	Volume Control and Switch	1.20
4883	Flexible Shaft (M-3)	4.20	04416	Battery Cable (M-7)	2.70	33-5009	Cone and Coil	.48
4885	Plug Cap	.10	04508	Oscillator Coil	1.20	36-3020	Cone	.48
4989U	Condenser	.24	04509	Interstage Coil	.60	36-3027	Field Coil and Assembly	2.25
4989Y	Condenser	.24	04959	Condenser	.90	38-3036	Vibrator	6.00
5110	Resistor (7)	.18	05366	Tone Control	.60	38-5123	Battery Cable (Receiver End)	.96
5215	Condenser (.001 mfd.)	.24	05388	E A Dynamotor	21.95	38-5124	Battery Cable (Battery End)	.48
5462	Switch	.48	05389	E B Dynamotor	21.95	38-5161	Antenna Lead	Per 100 2.50
5676	Fuse (10 amp.)	.04	05419D	Battery Cable (M-9)	4.20	38-5274	I. F. Transformer	1.40
5828	Condenser (.00025 mfd.)	.07	05424	E C Dynamotor	25.00	38-5275	I. F. Transformer (second)	1.40
5838	Resistor (8,000)	.24	05427	Terminal Panel Assembly (EA)	.26	38-5280	Volume Control Assembly (M-10)	1.25
5863	Condenser (.0007 mfd.)	.22	05428	Terminal Panel Assembly (EB)	.36	38-5296	Battery Cable	.20
5886	Condenser (.00125 mfd.)	.30	05622	Condenser (M-8)	1.20	41-2000	E E Dynamotor	25.00
5930	Filter Choke	1.68	05646	I. F. Transformer	1.50	41-3017	Battery Cable (6F)	2.70
6030	Control Cover	.72	05691	Condenser	1.80	41-3029	Battery Cable (9F)	3.00
6043	Dial	.30	05723	R. F. Choke	.18	41-3030	Battery Cable (B6F)	4.50
6058	Housing (M-7)	.78	05724	Filter Condenser	1.50	42-5056	Control Unit Assembly	5.00
6083	Battery Box (small)	2.82	05901	I. F. Transformer	.90	L-1160A	Battery Cable	1.20
6091	Key (M-6-8-7-9-12)	.18	05902	R. F. Transformer	.60	L-1163A	Speaker Cable and Plug	.60
6096	Resistor (5,000)	.24	05903	Antenna Transformer	.54	L-1164	Battery Cable	1.20
6097	Resistor (500,000)	.24	05910	Interstage Shield	.06	L-1188	Speaker Cable (Model A)	.72
6098	Resistor (50,000)	.24	05970	I. F. Transformer	.96	L-1386	Shielded Loom (36")	.48
6099	Resistor (100,000)	.24	05975	Det. Oscillator Coil	.78	L-1387	Shielded Loom (18")	.30
6107	Resistor (225)	.19	06006	Battery Cable (M-6)	3.00	L-1594	Antenna Lead	.48
6109	Volume Control (M-7)	1.80	06043	Terminal Panel (EB)	.36	W55	Nuts (Mounting)	Per 100 1.20
6122	Receiver Studs	Per 100 3.60	06084	E D Dynamotor	21.95	W821	Acorn Nut	Per 100 1.20
6128	Volume Control Shaft (32")	1.80	06088	Condenser (.5 mfd., .25 mfd.)	1.50			
6129	Tuning Control Shaft (32")	1.80	06091	Condenser (.05 mfd., .10 mfd.)	.42			

**PHILCO TRANSITONE PHILADELPHIA, PA.**