PHONOGRAPH MODEL 41-620

SPECIFICATIONS

Model 41-620 is a table type Electric Phonograph incorporating a five tube amplifier; PHILCO LIGHT-BEAM REPRODUCER; Manually operated turntable driven by an electric motor; and a new oval type dust proof speaker that has exceptionally high sound output. Other features included are: Continuously variable tone control; volume control, bass compensation, and a push-pull Pentode output stage with screen phase inversion.

POWER SUPPLY: 115 volts, 60 cycle A.C. This model can also be operated on a 115 volt, 50 cycle power supply by changing the phonograph motor as indicated in the parts list.

PHILCO TUBES USED: One 7F7, Pre-amplifier and 1st audio; one 7B5, Light-Beam Reproducer Oscillator; two 7B5, Push-pull output stage; one 7Y4, Rectifier.

AUDIO OUTPUT: 2.5 watts.

CABINET DIMENSION: Height, Width, Depth. 124" 184" 134"

LIGHT-BEAM REPRODUCER ADJUSTMENTS

To reproduce the sound from a record, the light beam of the reproducer must be carefully positioned on the light sensitive cell. If the light beam is not carefully set, the sound reproduction will be distorted, weak or, if the light beam is completely on or off the cell, the phonograph will be silent.

If any of these conditions exist, the following adjustment procedure should be made: —

NOTE — These adjustments should be made with the power line voltage at 118 volts A. C.

A.—ADJUSTING WIDTH OF LIGHT-BEAM

To make this adjustment push the lamp socket assembly into its holder until a clear image of the lamp filament appears on the light cell. The socket should then be slightly pushed in beyond this point until the rectangular spot of light is 5/32" in width. The socket assembly is now rotated so that the spot light is vertical.

B.—POSITIONING THE LIGHT-BEAM

To position the light-beam on the light cell, turn the adjusting screw at the lower left side of the reproducer until the spot is half on the cell and half on the metal frame surrounding the cell.

C.—ADJUSTING INTENSITY OF LAMP

When shipped from the factory, the lamp of the reproducer is adjusted for best operating efficiency. The intensity of the light from the lamp is adjusted by compensator (22) located on the radio chassis. Under ordinary circumstances, an adjustment will not be necessary. When replacing the reproducer or lamp, however, there may be a tendency towards microphonic feedback. In this case the compensator is adjusted as follows:

- 1. Turn volume control on full and play a record.
- 2. While the record is playing, turn compensator in the direction necessary to eliminate microphonic feedback. By turning the compensator the strength of the pick-up output is increased or decreased.

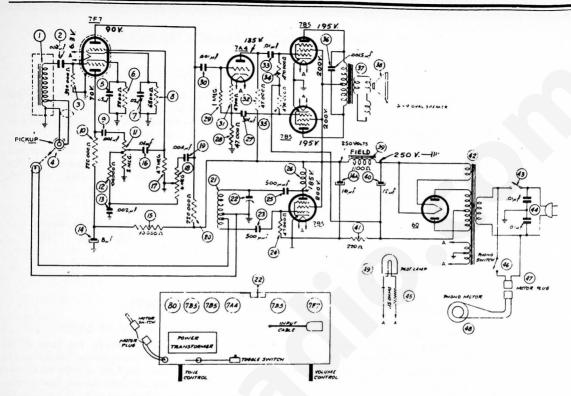
D.—INSTALLING NEW LAMP

When installing a new lamp in the socket, there are two positions in which the lamp can be inserted. Ordinarily, either of these positions can be used. In some cases, however, due to the lamp filament being off center, the lamp must be inserted in the position that gives the best centering of the spot of light on the vibrating mirror.

PRODUCTION CHANGES

The part number of condenser (36) in the Replacements Parts List should be 30-4616 instead of 30-4615. The value remains the same.

To prevent microphonics from developing when the lid of the cabinet is closed, a cork foot, Part No. 27-9337, is cemented under each front corner of the cabinet.



Replacement	Parts -	Model	41-620

	HEM. lo.	DESCRIPTION .	PART No.
Œ	Se	Transformer	W-658
000	Cond	enser (.002 mfd., 400 volts) tor (330,000 ohms, ½ watt)	30-4579
ĕ	Resis	tor (330,000 ohms, 1/2 watt)	33-433339
(Light	-Beam Reproducer (complete)	35-2233
	Rubb	er Bumper	54-4056
(6)	Conde	enser (05 mfd 200 volts)	30-4519
0	Resis	tor (2200 ohms, 1/2 watt)	33-222339
9899999	Conde	tor (2200 ohms, ½ watt) enser (.02 mfd., 400 volts) tor (6800 ohms, ½ watt)	30-4516
0	Resis	tor (6800 olims, 1/2 watt)	33-268339
0	Conde	enser (.001 mfd., 1,000 volts) .	30-4453
0	Resist	tor (220,000 ohms, 1/2 watt)	33-422339
(1)	Volun	ne Control	33-5432
_	Moun	ting Nut	W-2157
(3)	Resist	tling Nut. or (100,000 olmus, ½ wett) or (10,000 olmus, ½ wett) or (10,000 olmus, ½ wett) or (4,7 meg. olmus) Control tine Nut.	33-410339
œ,	Conde	nser (.002 mid., 400 voits)	30-4513
99	Electr	rolytic Condenser (8-16 mid.)	30-2480
200	Dagtat	orytic Condenser (16 mid.)	Part of (0)
2	Conde	meet (11 mtd 100 colts)	20 1579
3	Paciet	or (4.7 mer alme)	33-547330
*	Tone	Control	23-5434
9	Moun	ting Nut	W-9157
ത		nser (.004 mfd., 400 volts)	
3	Resist	or (220,000 ohms, 1/2 watt)	33-422339
8	Oscilla	ator Transformer	
•	(Li	ght-Beam Reproducer)	32-3527
	Coll	Clip	28-5002
6	Compe	nsator (Adjusting Reproducer Light) Condenser (500 mmfd.)	31-6388
9	Mica	Condenser (500 mmfd.)	60-150157
69	Resiste	or (47,000 ohms, ½ watt) Condenser (500 mmfd.)	33-347339
•	Mica	Condenser (500 mmfd.)	60-150157
9	USCILIA	tor E. E. Choke	32-3401
20	Conder	nser (.01 mfd., 400 volts) or (47,000 ohns, ½ watt)	30-4572
99	Resisto	or (47,000 ohnis, 1/2 watt)	33-347339
8		or (1 megohm)	
X	Connen	ser (.001 mfd., 200 volts)	30-4592
2	Pacieta	or (4700 onms, % watt)	33-24/339
-	Condon	or (47,000 onms, ½ watt)	33-347339
X	Recieta	(470 000 ohms 1/ wett)	30-4072
8	Resisto	(470,000 ohms 14 watt)	33-447990
ă	Conden	iser (.001 mid., 200 voits) or (4700 ohms, ½ watt) or (47,000 ohms, ½ watt) ser (.01 mfd., 400 voits) or (470,000 ohms, ½ watt) or (470,000 ohms, ½ watt) ser (.0015 mfd., 1000 voits)	30-4815
(A)	Output	Transformer	32-8120
20000000000000000000000000000000000000	Cone A	Transformer	38-4197
	Meld (coll (replace speaker 36-1537)	444.00.00
0	Electro	lytic Condenser (12 mfd.)	.30-2481
	Mount	ing Strap	.56-1346

SCHEM. No.	DESCRIPTION	PART No.	SCHEM. No.	DESCRIPTION	PART No.
Power Switch Nut . Line F Resisto Motor Male ! Female Phono Mou Finale Mour Kemale Mou Mou Mou Mou Mou Mou Mou Mou Lock	(220 ohms, 1 watt) Transformer (115 volts, 60 cyc. Switch (0n-0ff amplifier) Plate Titler Condenser (.01-01 mfd.) r (15 ohms, wirewound) Motor Switch Plugs Plug (Shell) g Prongs) Motor (115 volts, 60 cycle) Motor (115 volts, 60 cycle) motor (115 volts, 50 cycle) nting Grommet Nut wer Coupling Washer nting Washer washer	le) 32-8157 42-1632 28-2401 W-1757 3903-DG 33-015334 42-1643 28-5390 27-4622 56-1619 35-1257 27-4596 W-1758 54-4055 W-181	Cable Sr Cable In Cable Po Jewel (I Knobs Screw ((Socket (Socket (Socket P Speaker Wasner Sleeve Nut Gromm		34-2210

