PHONO - VIEWER SERVICE MANUAL A615 SHOW 'N TELL PHONO-VIEWER MODEL A615A



Model A615

GENERAL

The General Electric model A615 Show'N Tell Phono-viewer is a 2 transistor set with a 4-speed manual turntable and a slide-film projection system. Designed to be used with General Electric Picture-sound program albums, it shows pictures timed to words and music.

To set the record in proper synchronization with the showfilm, the mark on the indicator shaft next to the turntable should be turned (by rotating the turntable manually) to point to the arrow molded in the top of the cabinet. Then the showfilm holder is pushed down in the film slot and the set turned on.

VERY IMPORTANT!

When any A.C.-operated test equipment is to be used for servicing, an isolation transformer should be used in series with either the set or the test equipment line cord. In the absence of an isolation transformer, check for the presence of A.C. line voltage with a D.C.-operated VOM between the phono-viewer ground and the test equipment. If line voltage is present, reverse the position of one of the power plugs in the A.C.-outlet. The test equipment can now be used normally.

Failure to observe these precautions may result in destruction of either the output transistor or the turntable motor, or both, in addition to creating a dangerous condition.

ADJUSTMENTS

When the projection lamp is replaced, variations in filament location within the lamp may require re-positioning of the lamp bracket to produce full, even illumination of the screen. Correct adjustment procedure is shown in the lamp replacement illustrations.

The small mirror located in front of the projection lens might also require re-adjustment if it has been removed from the cabinet. Reposition to correctly frame picture on screen.

CABINET DISASSEMBLY

The cabinet front and screen are fastened to the cabinet by two screws at the top. The top and bottom halfs of the cabinet are fastened to each other by four screws located inside the cabinet. Two of these are at the front inside corner of the set. The other two, located behind the large mirror and film advance mechanism, are accessible through holes in the bottom of the cabinet.

FILM ADVANCE MECHANISM

The film advance mechanism is shown in one of the illustrations. Improper operation of this mechanism will produce faulty framing or indexing of the picture on the screen. Typical indexing problems and their solution are listed below.

- 1. Excessive friction drag on film drive assembly shaft. Lubricate shaft at both support points. Readjust phono motor to eliminate binding between worm and helical gears.

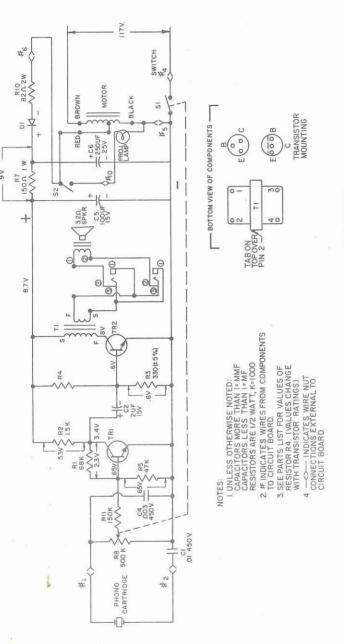
MISCELLANEOUS MECHANICAL TROUBLESHOOTING

- Won't focus properly. Remove complete lens assembly (holder) by removing retaining clip and lifting out. Adjust lens tube in or out of holder until proper focusing is possible.
- Fan does not operate. Fan set screw may be loose, or fan may be binding against air duct or duct bracket. May also cause turntable to stop.

TRANSISTOR REPLACEMENT

Should the output transistor, TR2, be replaced, use a heat transferring grease or paste applied to the transistor case to aid heat transfer to the heat sink.

^{*} Trademark General Electric Co.



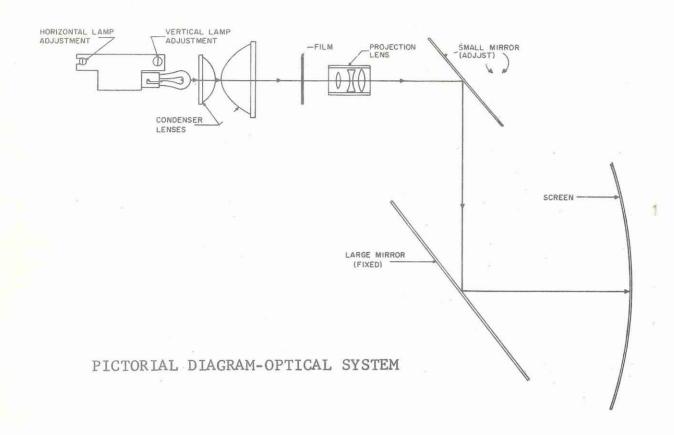
SCHEMATIC WIRING DIAGRAM FOR PHONO AMPLIFIER MODEL A 615

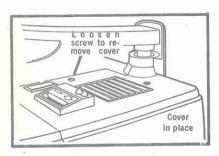
COMPONENT SUBSTITUTION CHART

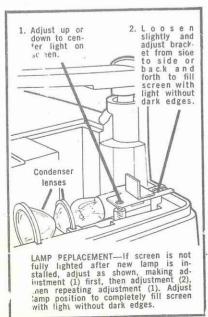
one Use it to determine the necessary changes required when substituting another component for the original one. When substituting from The following components may vary in different group versions of this model. group, all items listed as being in the new group must be used.

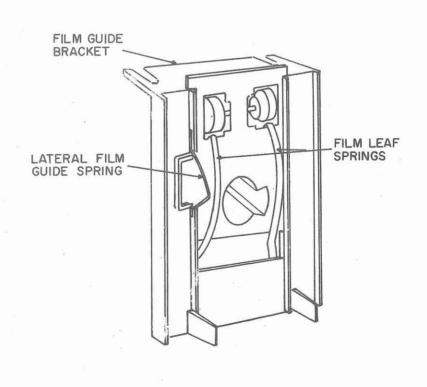
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RS-7413 RS-7412 RS-7411 RS-7410	RS-7411		RS-7410	 RS-7410	RS-7409	RS-7408	RS-7108	RS-7107	RS-7104	RS-7105	RS-7105
RS-7622 RS-7623 RS-7624 RS-7625	RS-7624		RS-7625	RS-7626	RS-7627	RS-7628	RS-7628	RS-7628	RS-7627	RS-7626	RS-7525
2.7K 3.3K 3.3K 3.3K	3.3K		3.3K	3.3K	3.9K	3.9K	3.9K	3.9K	3.9K	3.3K	3.3K

FILM ADVANCE MECHANISM

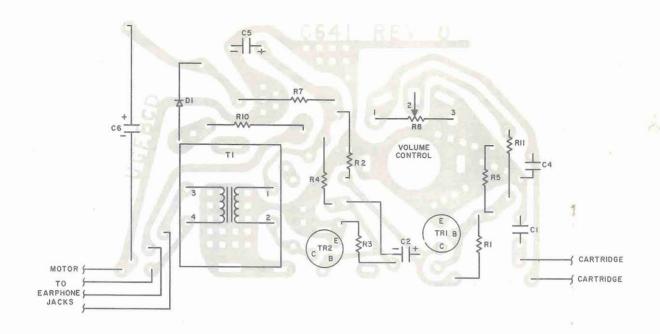




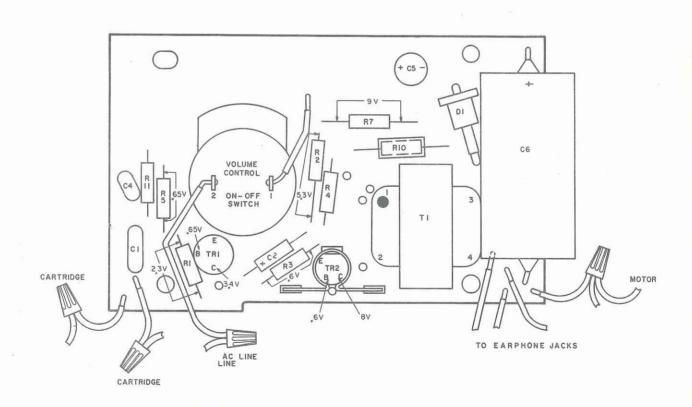




FILM GUIDE MECHANISM



COMPONENT WIRING DIAGRAM (BOTTOM VIEW) FOR PHONO AMPLIFIER MODEL A 615



COMPONENT LAYOUT DIAGRAM (TOP VIEW) FOR PHONO AMPLIFIER MODEL A 615

REPLACEMENT PARTS LIST

CATALOG NO.	SYMBOL	DESCRIPTION	LIST	CATALOG NO.	SYMBOL DESCRIPTION	LIST
ON IN LOG ING.	DITIDOL	DESCRIPTION	111200	01.2.200 110.		
	LIFIER		RS-6722	Fan	.35	
				RS-9985	Air Duct	.75
	C1	.01 MF, 450 Volt		RT-1054	Cartridge	2.75
RS-2615	C2	2 MFD 15V ELECTRO-		RT-1055	Tone Arm	3.75
		LYTIC	1.10	RT-1361	Phono Motor, 110V, 60 Cycles	8.95
	C4	.003 MF, 450 Volt		*-RT-1549	Turntable	.60
RS-5990	C5	100 MFD, 15V ELEC-			N D	
		TROLYTIC	1.50		CABINET AND APPEARANCE ITEMS	
RT-1285	C6	250 MFD, 25V ELEC-				
		TROLYTIC	.85	RB-1689	Screen	1.25
RS-6686	R8,S1	Volume Control W/SW,		*-RB-1900	Cabinet Front	2.25
		500K	1.25	*-RB-1901	Cabinet Bottom	2.95
RT-1491	R10	82 Ohm, Resistor,		*-RB-1902	Cabinet Top	3.25
		2 Watt		*-RB-1903	Projector Lens Cover	.75
RS-6471	D1	Rectifier	1.20	*-RB-1904	Top Cover	1.95
RS-6469	T1	Output Transformer.	1.50	RS-9995	Paper Film HolderPkg.2	.25
RS-7412	TR1	Transistor	1.00	RT-1281	Index Indicator Window.Pkg.5	.25
RS-7108	TR1	Transistor	1.00	RT-1336	Volume Knob	.30
RS-7107	TR1	Transistor	1.00	*-RT-1546	Earphone, 15 Ohm	1.00
RS-7622	TR2	Transistor	1.00	*-RT-1547	Grille Insert	.40
RS-7623	TR2	Transistor	1.00	*-RT-1548	Medallion	.25
RS-7624	TR2	Transistor	1.00			
RS-7626	TR2	Transistor	1.00			
RS-7628	TR2	Transistor	1.00		MISCELLANEOUS	
RT-1094		Transistor Heat				
		SinkPkg.5	.25	RB-1284	4" Speaker	2.25
				RS-1594	Speaker ClipPkg.5	.25
PROJECTOR				RS-2590	Power Cord	.70
Vene C C C				RS-3822	Vol. Knob RetainerPkg.10	.50
RS-6668	Condens	er Lens, Large	.75	RS-6251	Earphone Jack	.30
RS-6669		er Lens, Small	.75	RT-1201	Earphone Jack NutPkg3	.30
RS-6675	Project	ion Lens Asm	.75	*-RT-1550	Lamp Switch	40
RS-6681		lirror	.50	RT-1551	Special Screw (Cabinet Front	0.5
RS-6682		dirror	1.25		to Top)Pkg.5	.25
RS-6710		ion Lens Arm Clip				
		Pkg.5	.25			
RS-6725		Lamp	.95		FILM DRIVE	
RS-6761	Lamp Ad	j. ScrewPkg.5	.25			0.5
				RS-6670	Film Guide	.25
	PHO	NOGRAPH		RS-6677	Film Idler Wheels	.25
		200	1 05	RS-6738	Idler Tension SpringPkg.5	.25
RS-4187		. Stylus	1.25	RS-6762	Leaf Spring, Film Guide	25
RS-4382		ole Center Disc	.35	pm 1000	Pkg.5	.25
RS-4633		le PadPkg.5	.25	RT-1283	Index Shaft Assembly	.95
RS-6236	Turntab	le "E" RingPkg.5	. 25	RT-1284	Drive Shaft Assembly	.25

All parts not listed by catalog numbers are common items, obtainable from radio parts jobbers.

Underlined capitalized items above, are most frequently needed replacement components.

Prices are suggested list prices subject to change without notice.

*-Denotes parts not previously cataloged.

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PRODUCT SERVICE-RADIO RECEIVER DEPT.

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