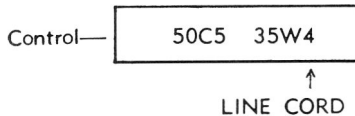
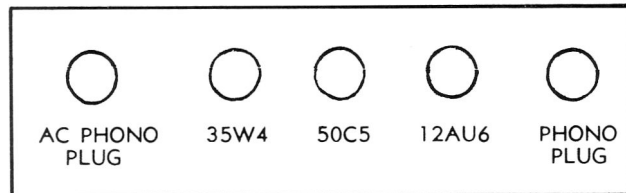


Portable Electric Phonographs

For Operation on 105-125 Volts A.C. Cycle as Marked.



Tube Layout
PMP-321 PAP-322



Tube Layout
PAP-323

Model PMP-320

3 Speed 1 Tube Manual

Undistorted Power Output 1.1 Watts
 Maximum Power Output 1.8 Watts
 Power Consumption 33 VA.
 Tube 25L6GT

Model PAP-322

4 Speed 2 Tube Automatic

Undistorted Power Output85 Watts
 Maximum Power Output 1.25 Watts
 Power Consumption 55 VA.
 Tubes 50C5, 35W4

Model PMP-321

**4 Speed 60 Cycle, 3 Speed 25 Cycle,
 2 Tube Manual**

Undistorted Power Output85 Watts
 Maximum Power Output 1.25 Watts
 Power Consumption 33 VA.
 Tubes 50C5, 35W4

Model PAP-323

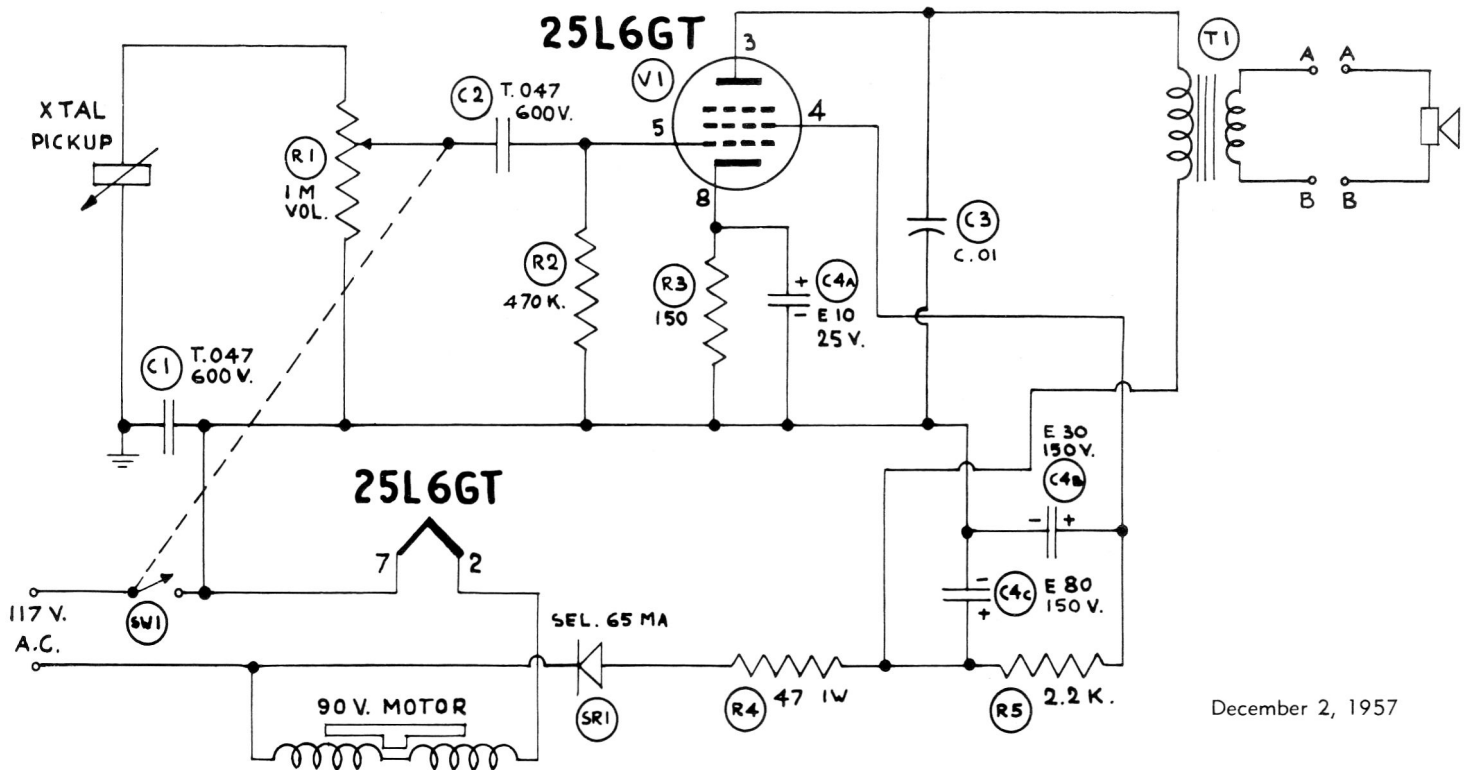
4 Speed 3 Tube Automatic

Undistorted Power Output 1 Watt
 Maximum Power Output 1.75 Watts
 Power Consumption 55 VA.
 Tubes 12AU6, 50C5, 35W4

CAUTION FOR SERVICEMEN

Any serviceman working with this unit when it is out of the cabinet should take special care not to come in contact with any ground connections.

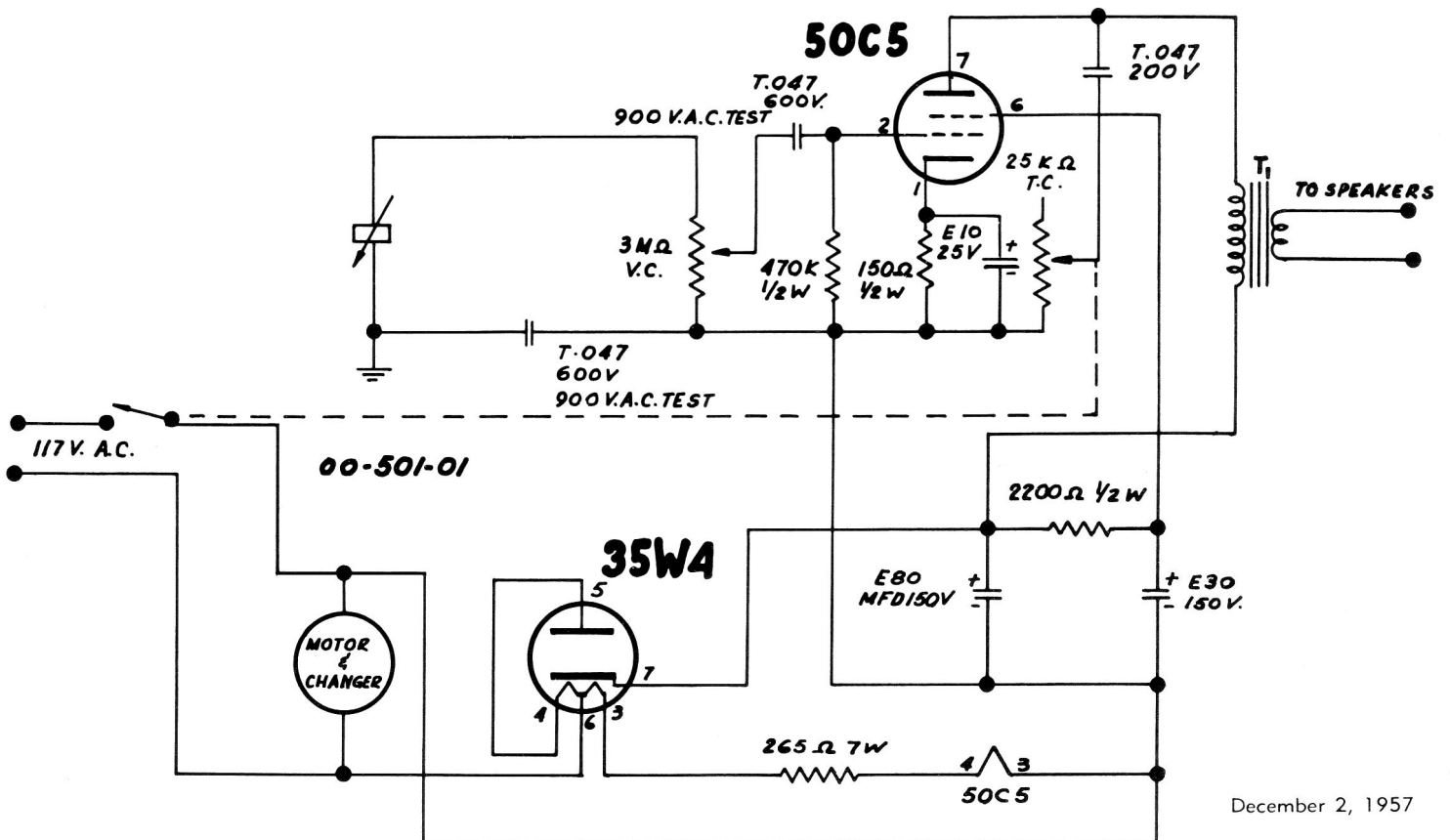
SCHMATIC — Model PMP-320



December 2, 1957

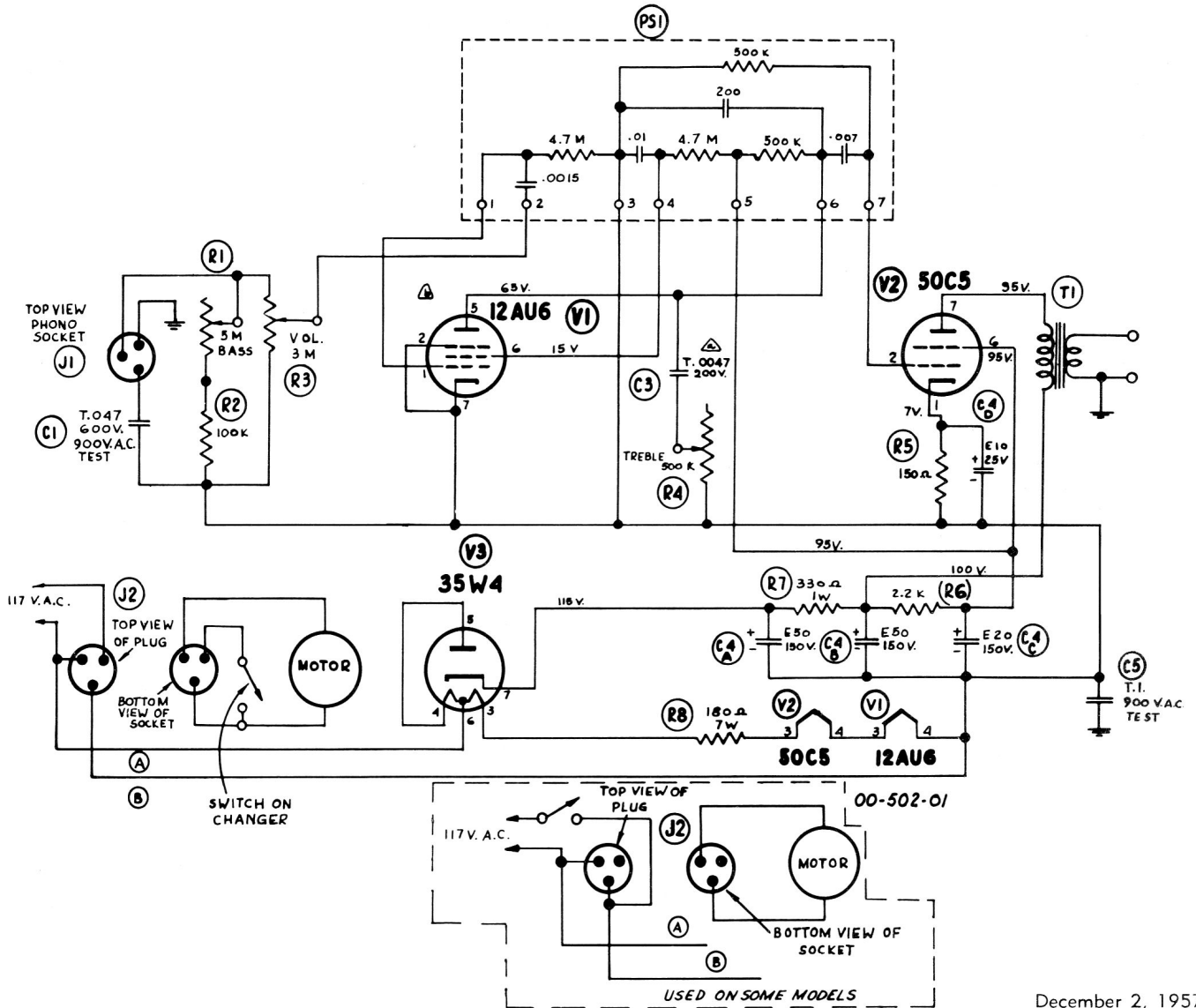
00-509-01

SCHMATIC — Models PMP-321, PAP-322



December 2, 1957

SCHEMATIC — Model PAP-323



December 2, 1957

NOTES:

CABINET ASSEMBLY REPLACEMENT PARTS LIST

PMP - 320, - 321 PAP - 322, - 323

<u>Part Number</u>	<u>Description</u>	<u>Remarks</u>	<u>Suggested List Price</u>
03-160007-03.....	BSR UA8 Changer 25 Cy. complete.....	PAP-323	POR
03-160007-04.....	BSR UA8 Changer 25 Cy. complete.....	PAP-322	POR
03-160008-01.....	Collaro "Conquest" Changer 60 Cy.....	PAP-323	POR
12-15380-51.....	Portable Phono — Case only, Bone White and Blue.....	PMP-320	9.90
12-15380-52.....	" " — " " Bone White and Tan.....	PMP-320	9.90
12-15390-51.....	" " — " " Bone White and Blue.....	PMP-321	10.95
12-15390-52.....	" " — " " Bone White and Tan.....	PMP-321	10.95
12-15400-51.....	" " — " " Bone White and Blue.....	PAP-322	16.50
12-15400-52.....	" " — " " Bone White and Tan.....	PAP-322	16.50
12-15410-51.....	" " — " " Bone White and Blue.....	PAP-323	21.00
12-15410-52.....	" " — " " Bone White and Tan.....	PAP-323	21.00
16-90007-02.....	Collaro "Conquest" Changer 60 Cy.....	PAP-322	POR
16-120007-01.....	Tone Arm Assembly	PMP-320, PMP-321	7.15
16-210001-02.....	Phono Motor 117V 60 Cycle 4 Speed.....	PMP-321	12.00
16-210002-02.....	" " 90V 60 Cycle 3 Speed.....	PMP-320	12.00
16-220001-01.....	" " 117V 25 Cycle 3 Speed.....	PMP-321	12.00
16-220001-02.....	" " 90V 25 Cycle 3 Speed.....	PMP-320	12.00
19-30002-01.....	Speaker 3½" P.M.....	(1) PAP-323	5.30
19-40005-01.....	" 4" P.M.....	(1) PMP-320, (2) PMP-321	3.40
19-50003-01.....	" 5" P.M.....	(2) PAP-322	5.35
19-70002-01.....	" 6" x 9" P.M.....	(1) PAP-323	3.20
53-14-01.....	Knob (Off-On-Volume)	PMP-32015
53-40-08.....	" (Loudness)	PMP-321, PAP-32220
53-40-09.....	" (Off-On-Tone)	PMP-321, PAP-32225
53-102-01.....	" (Loudness, Bass, Off-On-Treble).....	PAP-32330

CHASSIS REPLACEMENT PARTS LIST

PMP - 320, - 321 PAP - 322, - 323

24-80007-05.....	Output Transformer 3.2 ohm.....	PMP-320	2.35
24-80009-02.....	" " 1.6 "	PAP-322, PMP-321	2.45
24-80013-17.....	" " 3.2 "	PAP-323	2.70
28-1-01.....	Selenium Rectifier 65 MA.....	PMP-320	1.85
33-28-01.....	Strain Relief Bushing.....		.15
34-27-01.....	Line Cord & Plug Assembly.....		.70
41-14-01.....	Volume Control with Switch.....	PMP-320	1.25
41-19-01.....	" " " "	PMP-321, PAP-32285
41-20-01.....	Tone Control — Off-On.....	PMP-321, PAP-322	1.40
41-37-01.....	Off-On Treble Control.....	PAP-323	1.35
41-38-01.....	Bass Control	PAP-32390
42-1-15.....	W W Resistor 265 ohm ± 10% 7W.....	PMP-321, PAP-32230
42-1-18.....	W W Resistor 180 ohm ± 10% 7W.....	PAP-32335
44-5-01.....	Electrolytic Single 5 ufd x 25V.....	PAP-323	1.20
44-6-03.....	Electrolytic 3 Section 10 ufd x 25V, 80 & 30 ufd x 150V	PMP-320	2.00
44-6-07.....	Electrolytic " "	PAP-322, PMP-321	2.00
44-27-02.....	Electrolytic 4 Section 10 uuf x 25V, 50, 50 & 20 uuf x 150V	PAP-323	2.12
50-4-01.....	Printed Circuit	PAP-323	1.20
16-250004-02.....	TC8H Cartridge	PAP-322 25 cy.	5.95
16-250008-03.....	High Output Cartridge.....	PAP-322 60 cy.	8.50
16-250004-01.....	TC8M Cartridge	PAP-323 25 cy.	5.95
16-250008-01.....	Studio "O" Cartridge	PAP-323 60 cy.	8.50
16-120017-01.....	LP Sapphire Needle	Models — PAP-322, PAP-323	1.50
16-120017-02.....	78 " "	PAP-322, PAP-323	1.50
16-250007-01.....	ACOS Cartridge	PMP-321, PMP-320	8.50
16-120018-01.....	LP ACOS SJ2 Needle.....	PMP-321, PMP-320	1.50
16-120018-02.....	78 ACOS SJ1 Needle.....	PMP-321, PMP-320	1.50

POR — Prices on Request.