

PARTS LIST AND DESCRIPTION

TUBES

| ITEM No. | USE | GENERAL ELECTRIC | • | AMPEREX | • | RCA | • | SYLVANIA | • | ITEM No. | USE | TYPE |
|----------|-------------------|------------------|---|---------|---|-----|---|----------|---|----------|------------------|------|
| V1 | Converter | 12BE6 | | | | | | | | V4 | Output Rectifier | 50C5 |
| V2 | IF Amp. | 12BA6 | | | | | | | | V5 | | 35W4 |
| V3 | Det.-AFC.-AF Amp. | 12AV6 | | | | | | | | | | |

COMPONENT COMBINATIONS

| ITEM No. | USE | DESCRIPTION | Emerson PART No. | REPLACEMENT DATA |
|----------|----------------|--|------------------|---|
| K1 | Audio Coupling | 470K, 470K, 8.5meg, 220mfd 500mfd, .002mfd, .005mfd | 923102 | Aerovox CRL PC-154 Sprague DT-3 ① |

PHONO CARTRIDGE & NEEDLES

① Reverse leads 5 and 6.
*NEEDLE LISTINGS SHOWN ARE FOR RESPECTIVE REPLACEMENT CARTRIDGES ONLY.

| ITEM No. | Emerson PART No. | NEEDLE CARTRIDGE | REPLACEMENT DATA | | NOTES |
|----------|------------------|--------------------------|---------------------------------------|---------------------------------------|---------------------------------|
| | | | ASTATIC PART No. | ELECTRO-VOICE PART No. | |
| M1 | 106 ① | SA250 (LP) SA075 (7B) | 76TBS N8-38 * (LP) N8-78 * (7B) | 3005 12THRS 3008 (LP) 3008 (7B) | ① Used in Mod #P-1944. |
| | | | N8-18 (LP) N8-38 (7B) | 3000* (LP) 3002* (7B) | Original cartridge replacement. |
| | T055 ② | | 84TS N8-18 * (LP) N8-78 * (7B) | 3005 12THRS 3006 (LP) 3006 (7B) | ② Used in Mod. #P-1946. |
| | | | N801-3S (LP) N801-7B (7B) | 3005* (LP) 3008* (7B) | Original cartridge replacement. |

MISCELLANEOUS

| ITEM No. | Emerson PART No. | PART NAME | NOTES |
|----------|------------------|------------------|-----------------------------|
| M2 | 900223 | Tuning Capacitor | 2 Gang |
| M3 | 510234 | Switch | Function |
| | 963209 | Switch | Changer On-Off Model P-1944 |
| | 510235 | Switch | Motor On-Off Model P-1946 |
| | 819188A | Motor Assembly | Model P-1948 |

CABINETS & CABINET PARTS
(When Ordering Specify Model, Chassis & Color)

| ITEM | ITEM | PART No. | ITEM | PART No. |
|--|---------|----------|--|----------|
| Baffle and Grille Cloth Assembly, Brown & Gold—Model P-1944 | 471501 | | Knob—Function Selector—Brown & Gold | 481877 |
| Baffle and Grille Cloth Assembly, Brown & White—Model P-1944 | 471501A | | Knob—On/Off Volume—Grey & White | 481884 |
| Baffle and Grille Cloth Assembly, Brown & White—Model P-1946 | 471502 | | Knob—Tuning—Grey & White | 481875A |
| Baffle and Grille Cloth Assembly, Grey & White—Model P-1946 | 471502A | | Cabinet Assembly—Brown & Gold | 481877A |
| Control Panel—Brown & Gold | 414844 | | Cabinet Assembly—Model P-1944 | 141518 |
| Control Panel—Grey & White | 414844A | | Cabinet Assembly—Grey & White—Model P-1944 | 141518A |
| Knob—On/Off, Volume—Brown & Gold | 461888 | | Cabinet Assembly—Grey & White—Model P-1946 | 141516 |
| Knob—Tuning—Brown & Gold | 461876 | | | 141516A |

WIRING DATA

| | |
|--|---|
| General-use Unshielded Hook-up Wire | Use BELDEN No. 8530 (Solid) Available in 12 Colors |
| Power Cord | Use BELDEN No. 8524 (Stranded) Available in 12 Colors |
| Power Cord (Interlock Type) | Use BELDEN No. 1708 (Plastic) or 17128 (Rubber) - 6 Ft. |
| Low-Loss Shielded Lead (Interconnecting) | Use BELDEN No. 8874 (Rubber) or 8886 (Plastic) |
| Phono Pick-up Arm Cable | Use BELDEN No. 8400 or 8421 |
| | Use BELDEN No. 8429 (Two Conductor—Unshielded) |
| | 8419 (Three Conductor—Shielded) |

EMERSON MODELS
P-1944, P-1946 (Ch. 120726)

SET 717 FOLDER 8

PHOTOFACT® Folder

with CIRCUITRACE®



MODEL P1944

| | |
|---------------|---|
| TRADE NAME: | Emerson Model P-1944, P-1946 (Ch. 120726) |
| SUPPLIER: | For Current Address, See Master Index. |
| TYPE SET: | 5 Tube AM Receiver, 4 Speed Automatic Record Changer |
| POWER SUPPLY: | 110-120 Volts AC, 60 Cycles RATING: 28 Watts, .24 Amp. @ 117 Volts AC |
| TUNING RANGE: | BROADCAST 540-1620KC |

FOR SERVICE INFORMATION ON RECORD CHANGER PART #819211 SEE SIMILAR - BSRUA14 PHOTOFACT SET 465 FOLDER 6

ALIGNMENT INSTRUCTIONS

Use isolation transformer, if available, and maintain line voltage at 117 volts. Set Volume control at maximum. Fashion loop of several turns of wire and connect generator across loop. Adjust output of generator to radiate only enough signal into receiver to obtain a suitable indication.

Suggested Alignment Tools:
A1 thru A4 GENERAL CEMENT: 5097, 8727 WALSCO: 2515
A5, A6 GENERAL CEMENT: 8868, 9087, 9089 WALSCO: 2528, 2541, 2587

| GENERATOR FREQUENCY | DIAL SETTING | INDICATOR | ADJUST | REMARKS |
|----------------------|-------------------------|---------------------------------|----------------|--|
| 1. 455KC (400v Mod.) | Tuning gang fully open. | Output Meter across Voice coil. | A1, A2, A3, A4 | Adjust for maximum. Repeat until no further improvement can be made. |
| 2. 1620KC | " | " | A5 | Adjust for maximum. |
| 3. 1400KC | Tune to signal. | " | A6 | Adjust for maximum. |

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. MG842

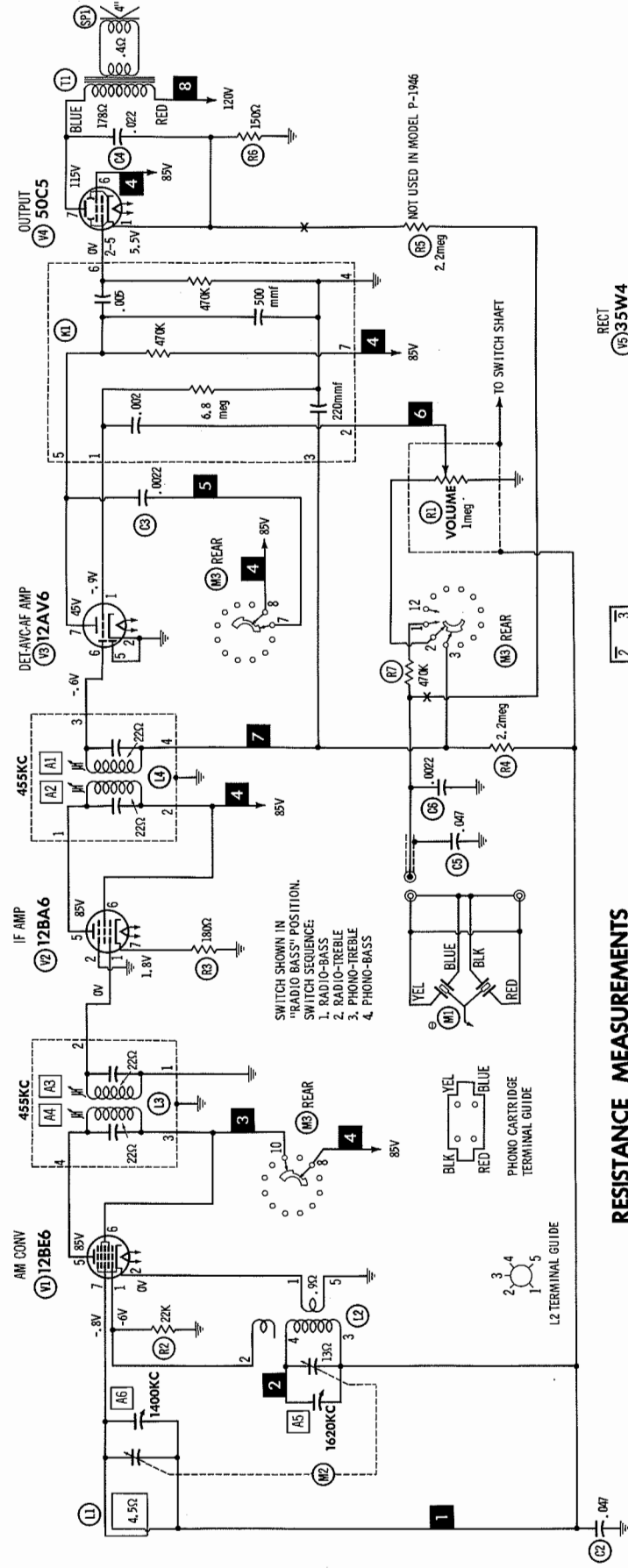
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SET 717 FOLDER 8

EMERSON MODELS
P-1944, P-1946 (Ch. 120726)

SET 717 FOLDER 8



RESISTANCE MEASUREMENTS

| ITEM | TUBE | Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7 |
|------|-------|--------|-------|-------|-------|---------|---------|--------|
| V1 | 12BE6 | 22K | .92 | 242 | 122 | † 15002 | † 15002 | 2.9meg |
| V2 | 12BA6 | 222 | 02 | 242 | 362 | † 15002 | † 15002 | 1802 |
| V3 | 12AV6 | 6.8meg | 02 | 02 | 122 | 02 | 1meg | † 470K |
| V4 | 50C5 | 1502 | 470K | 362 | 902 | NC | † 15002 | † 1782 |
| V5 | 35W4 | NC | NC | 902 | 1302 | 1302 | 1202 | † 250K |

- See parts list for alternate value or application.
- Voltage measurements taken with vacuum tube voltmeter.
- All controls set for normal operation, no signal applied.
- Measured values are from socket pin or terminal to common ground.
- All terminals viewed from bottom unless otherwise designated.
- Numbers assigned to terminals may not be found on the unit.
- Supply voltage maintained at rated value for voltage readings.

A PHOTOFACT STANDARD NOTATION SCHEMATIC with **CIRCUITRACE**

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EMERSON MODELS
P-1944, P-1946 (Ch. 120726)

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ARROWS INDICATING TUBE LOCATIONS ARE
POINTING TO PIN 1 UNLESS OTHERWISE INDICATED

