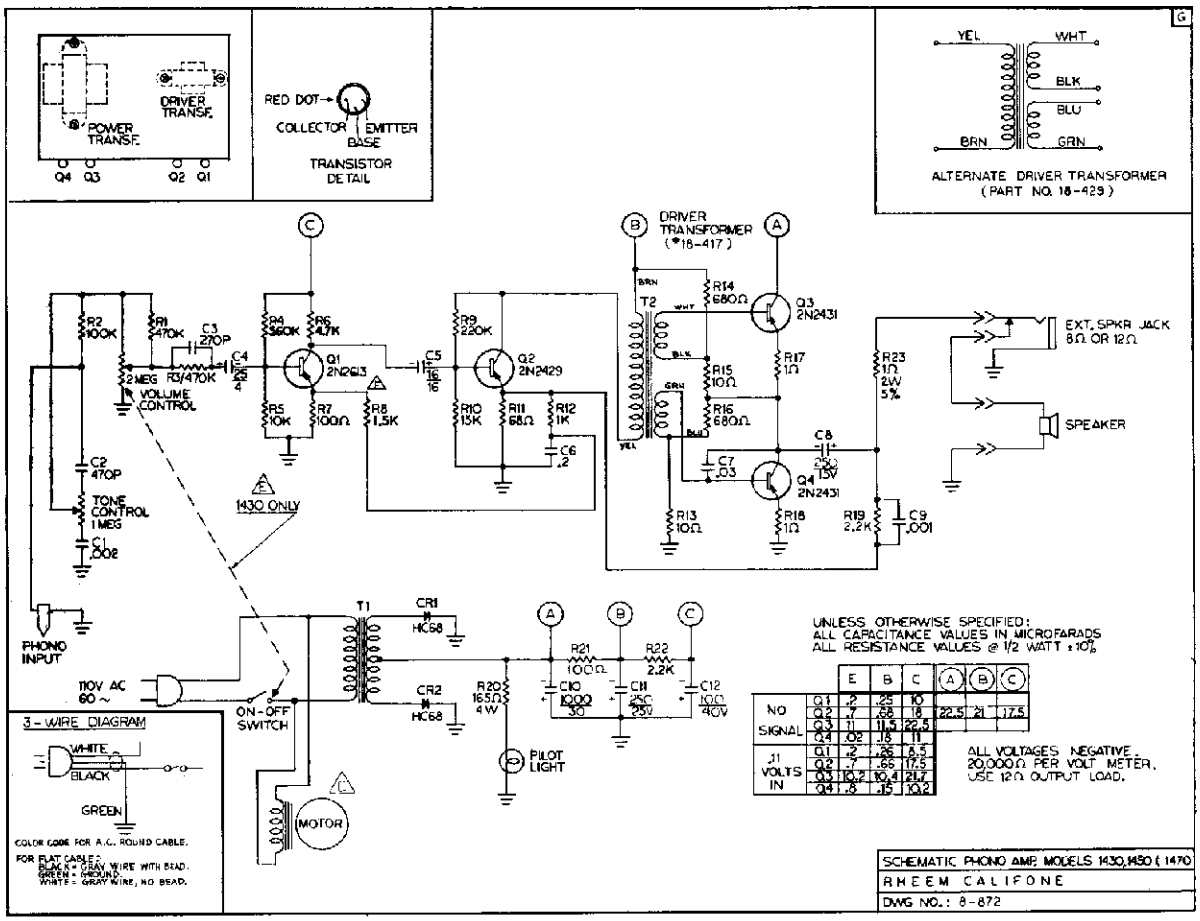
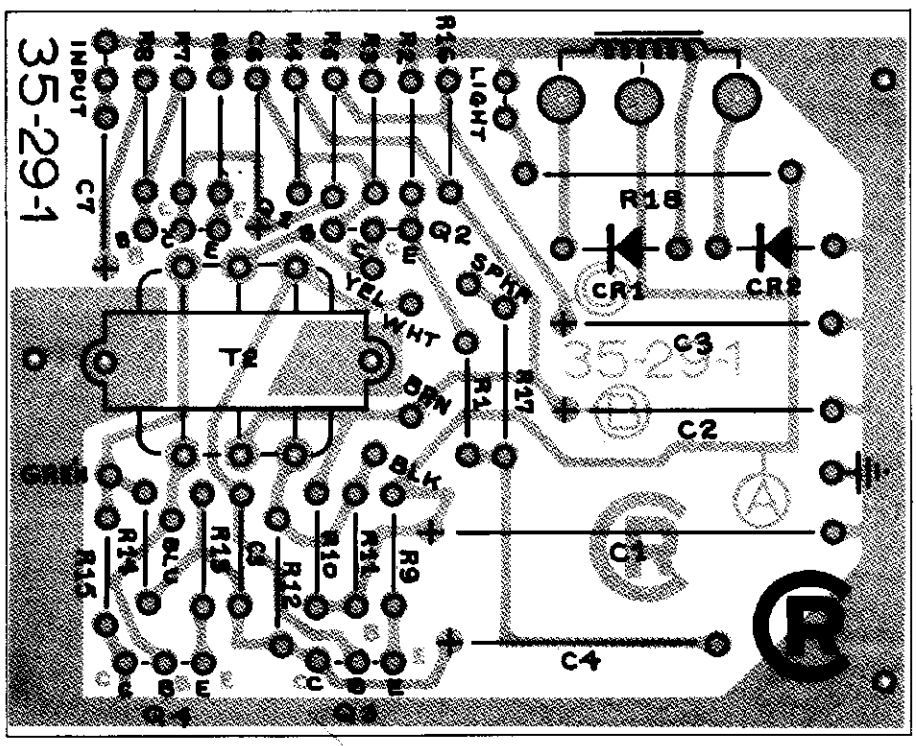
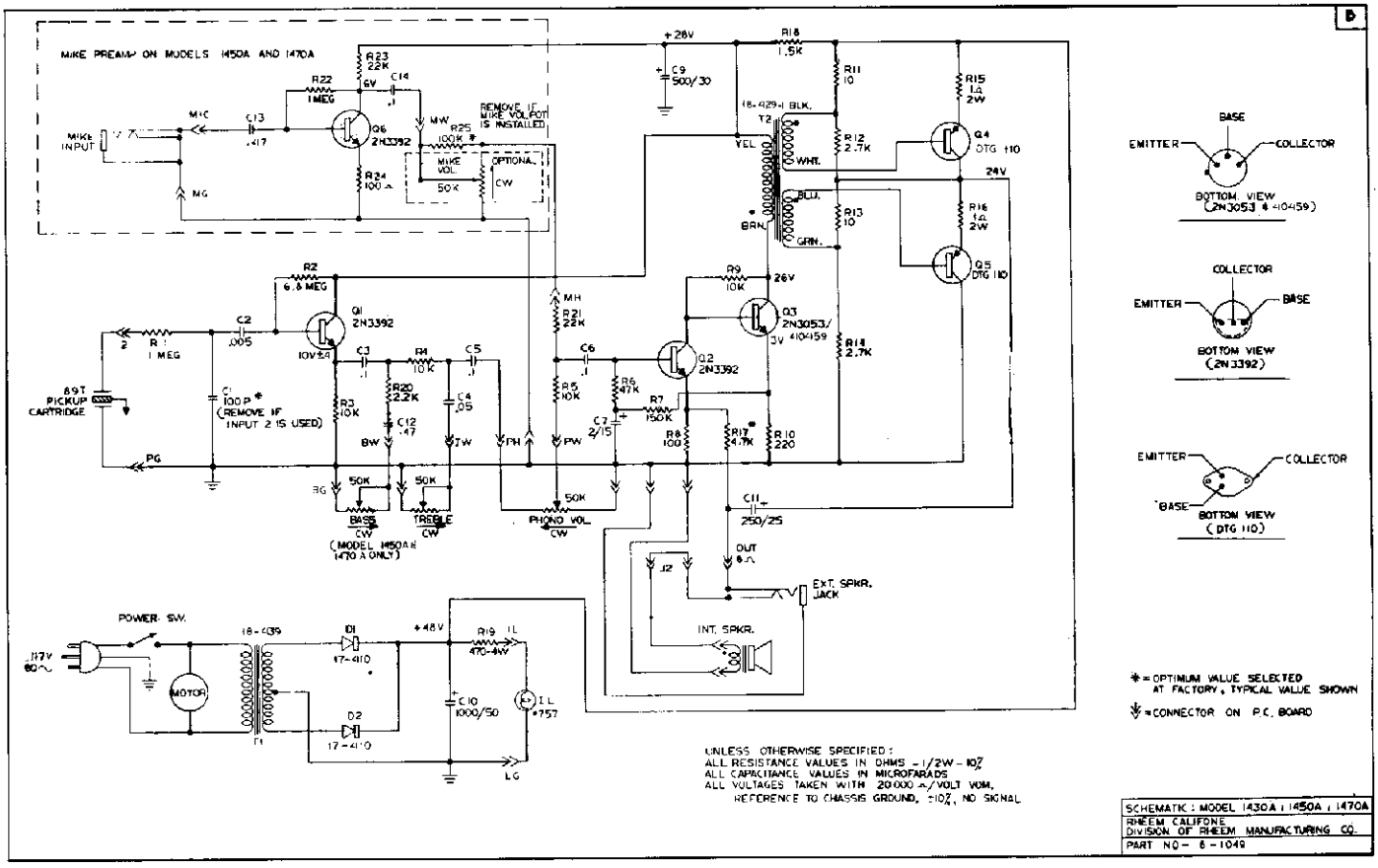
CALIFONE SERVICE DATA SHEET

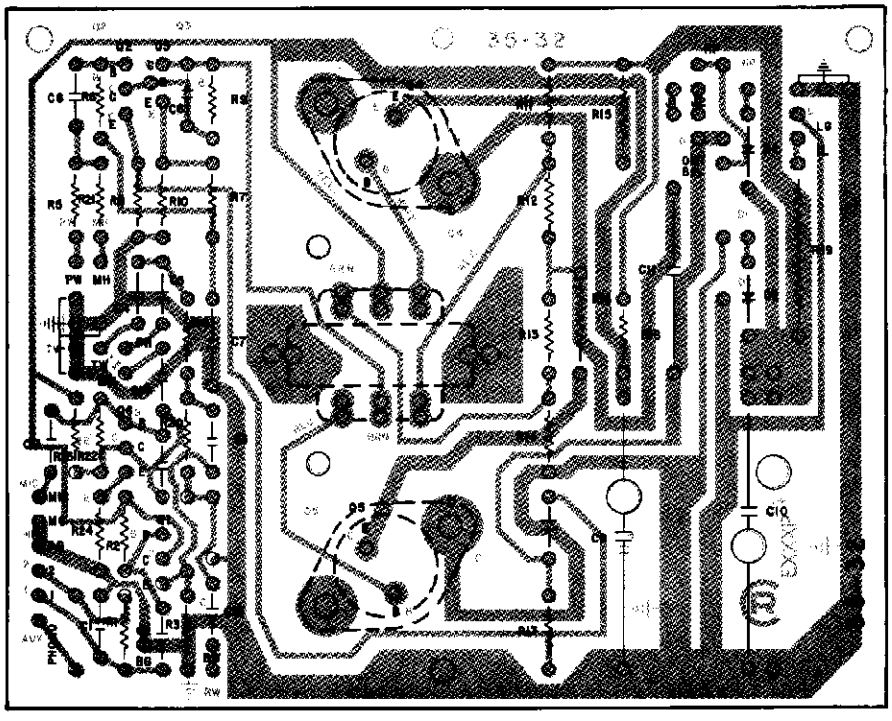
MODEL 1430/1450/1470





MODEL 1430A/1450A/1470A





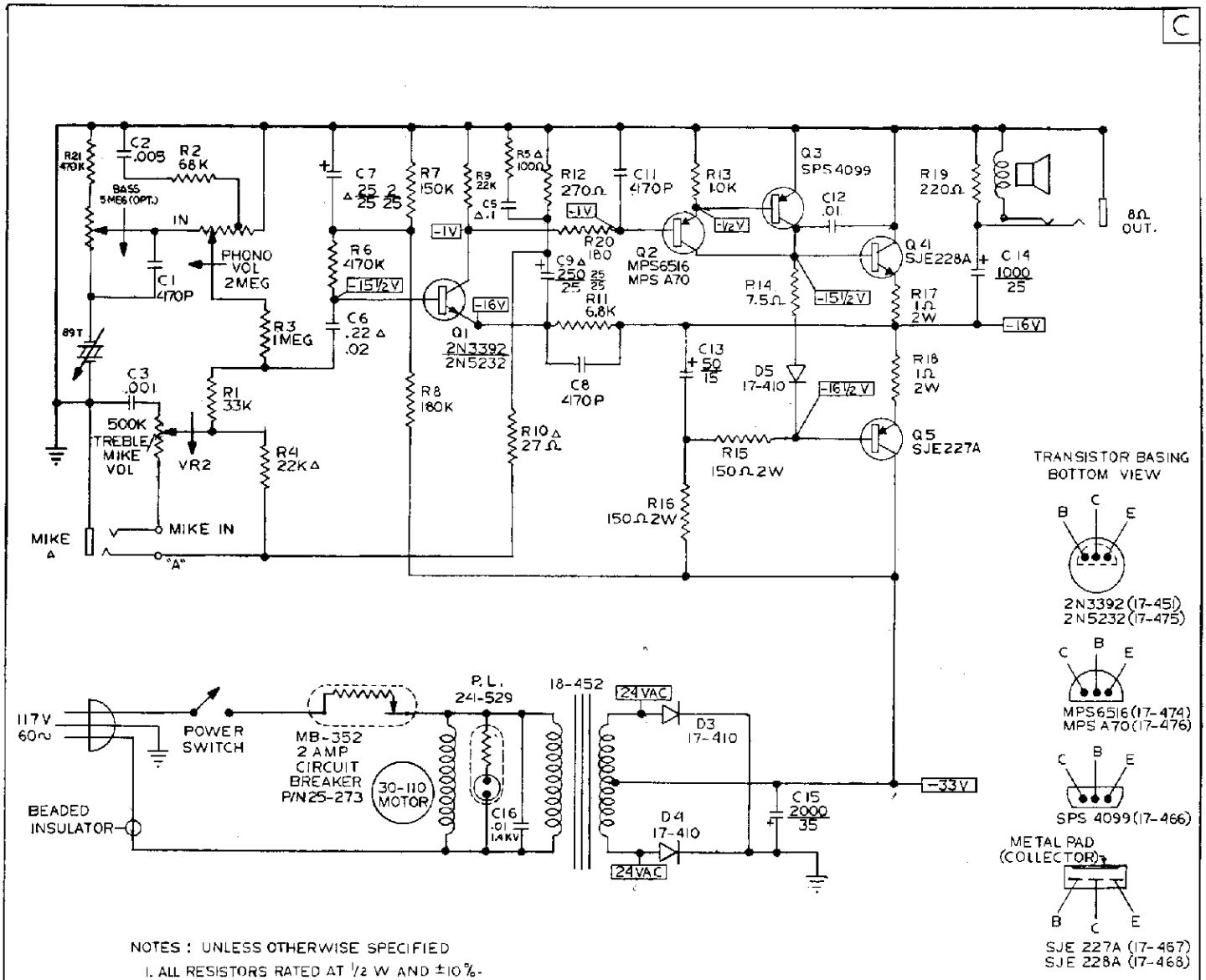
Transistor Voltage Chart

	Q1	Q2	Q3	Q4	Q5
E	10 ±4V	.2V	3V	48V	24V
B	Ve+1/2V	.7V	3.6V	48V	24V
C	28V	3.6V	26V	24V	0V

CALIFONE

SERVICE DATA SHEET

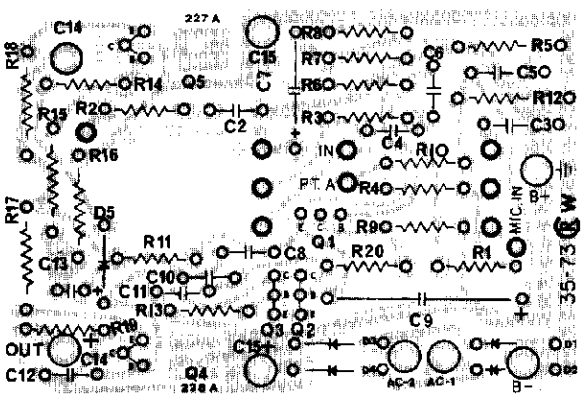
MODELS 1430B, 1450B, 1470B



NOTES : UNLESS OTHERWISE SPECIFIED

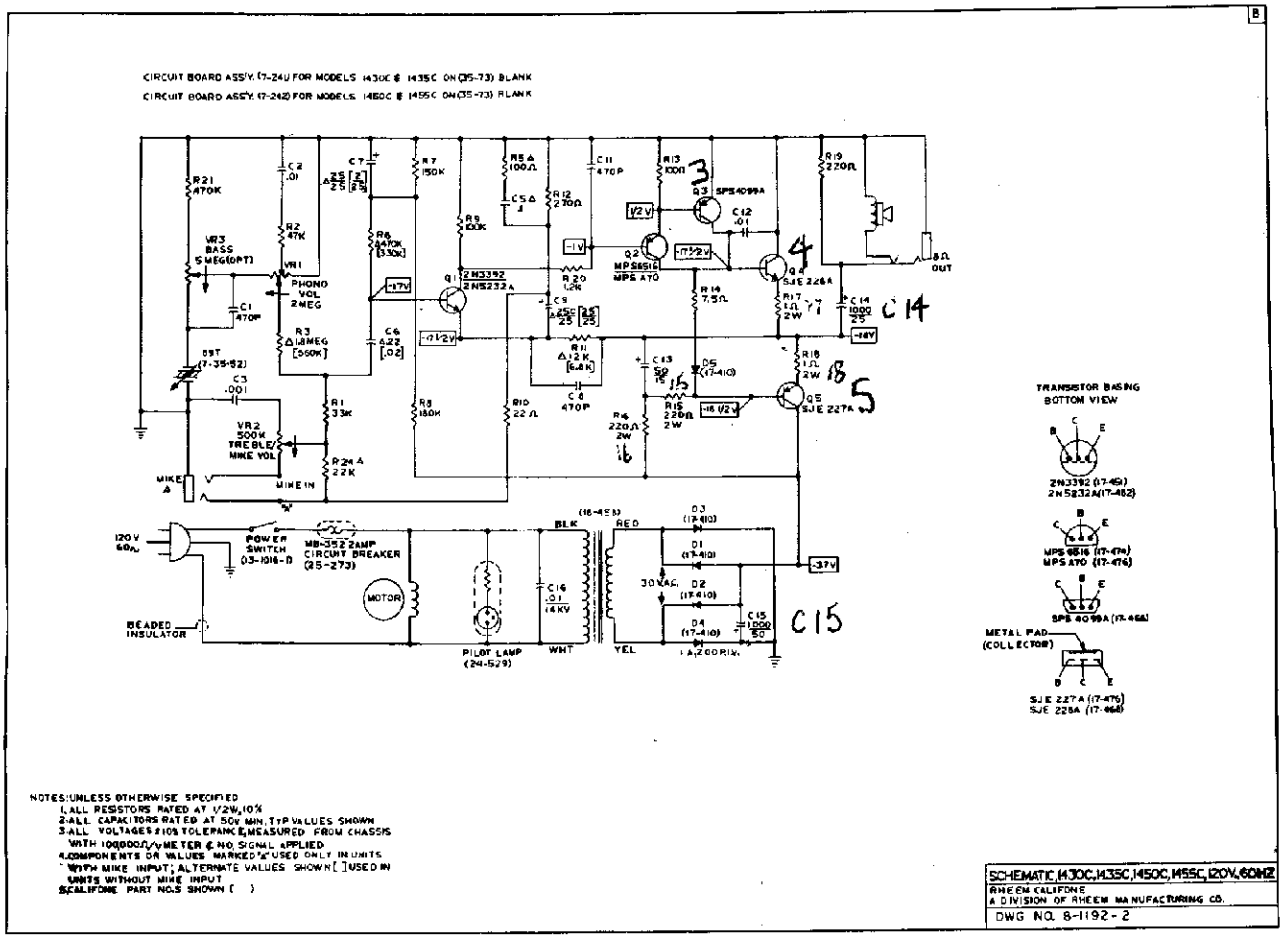
1. ALL RESISTORS RATED AT ½ W AND ±10%.
2. ALL CAPACITORS RATED AT 35V MIN, TYPICAL VALUES SHOWN.
3. ALL VOLTAGES ± 10% TOLERANCE, MEASURED FROM CHASSIS WITH 100,000 Ω/V METER & NO SIGNAL APPLIED.
4. COMPONENTS OR VALUES MARKED Δ USED ONLY IN UNITS WITH MIKE INPUT.

SCHEMATIC , 1430B, 1450B, 1470B
RHEEM CALIFONE A DIVISION OF RHEEM MANUFACTURING COMPANY
DWG. NO. 8-1192



Rheem califone

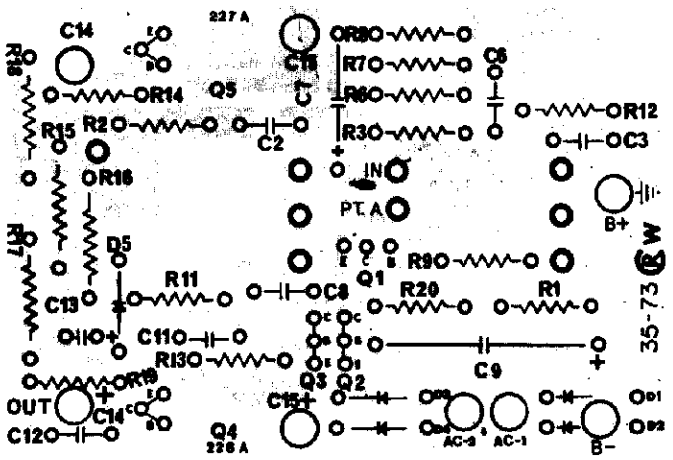
SERVICE DATA SHEET
MODELS 1430C/1435C/1450C/1455C

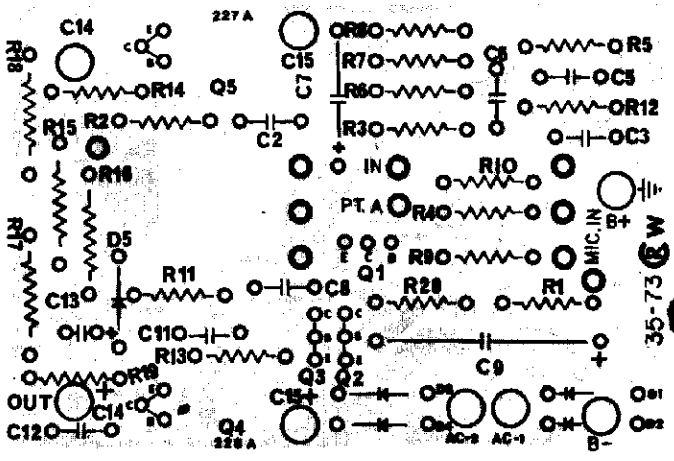


NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL RESISTORS RATED AT 1/2W, 10%
2. ALL CAPACITORS RATED AT 50V MIN. TYP VALUES SHOWN
3. ALL VOLTAGES ±10% TOLERANCE, MEASURED FROM CHASSIS WITH 100,000Ω/V METER & NO SIGNAL APPLIED
4. COMPONENTS OR VALUES MARKED "*" USED ONLY IN UNITS WITH MIKE INPUT; ALTERNATE VALUES SHOWN [ ] USED IN UNITS WITHOUT MIKE INPUT
5. CALIFONE PART NOS SHOWN ( )

MODEL 1430C - SERIAL NUMBERS EFFECTED (07350 & subsequent); MODEL 1435C- SERIAL NUMBERS EFFECTED (00601 & subsequent): C2 was .005; R2 was 68K; R6 was 470K .

MODEL 1430C - SERIAL NUMBERS EFFECTED (04151 & subsequent): R3 was 1 meg .





Californe
INTERNATIONAL, INC.
5922 Bowcroft Street • Los Angeles, California 90016
Telephone (213) 870-9631

SERVICE DATA
MODELS 1430K/1430KM/1430Q/
1435K/1450K/1455K

The 1430K, 1430KM, 1430Q, 1435K, 1450K and 1455K are portable monophonic phonographs. The basic model is the 1430K. It has Volume, Tone, and Pause controls and a jack for an external speaker or headset.

The 1430KM is a variation wherein most major components may be replaced, without the use of a soldering iron, using common hand tools.

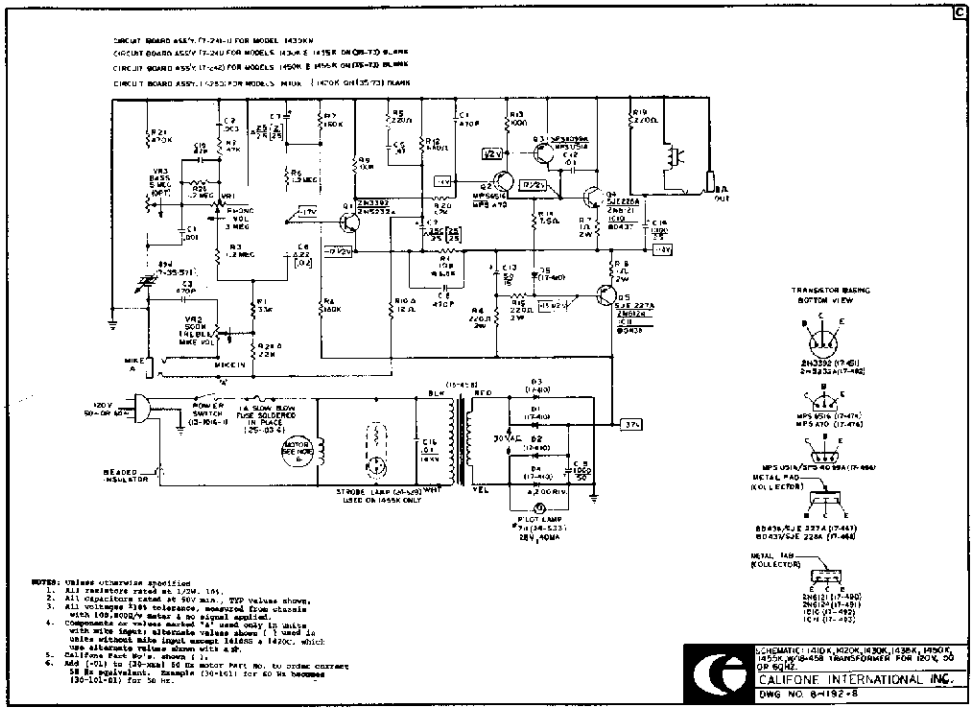
The 1430Q is a variation which has additional circuitry to recognize the 30Hz sub-audible cue tone on certain records. A Cue On-Off switch is provided to prevent the Cue Lamp from illuminating on normal program material.

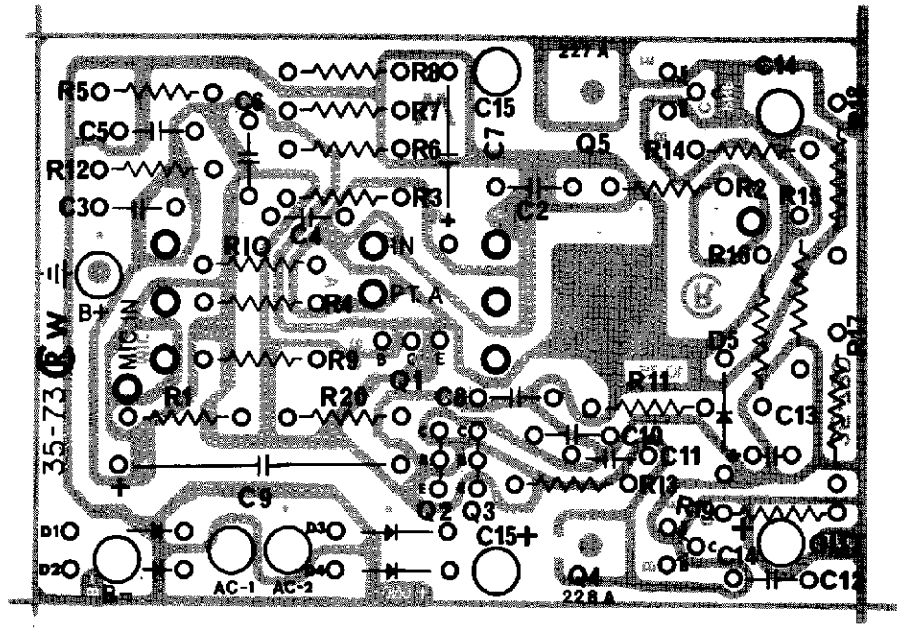
The 1450K is a variation which has additional circuitry for separate Bass and Treble controls, and for a public-address microphone input. When the microphone is connected, the Treble control is converted to the Microphone Volume control.

The 1435K and 1455K are variations (of the 1430K and 1450K, respectively) which provide a variable-speed motor.

SPECIFICATIONS:

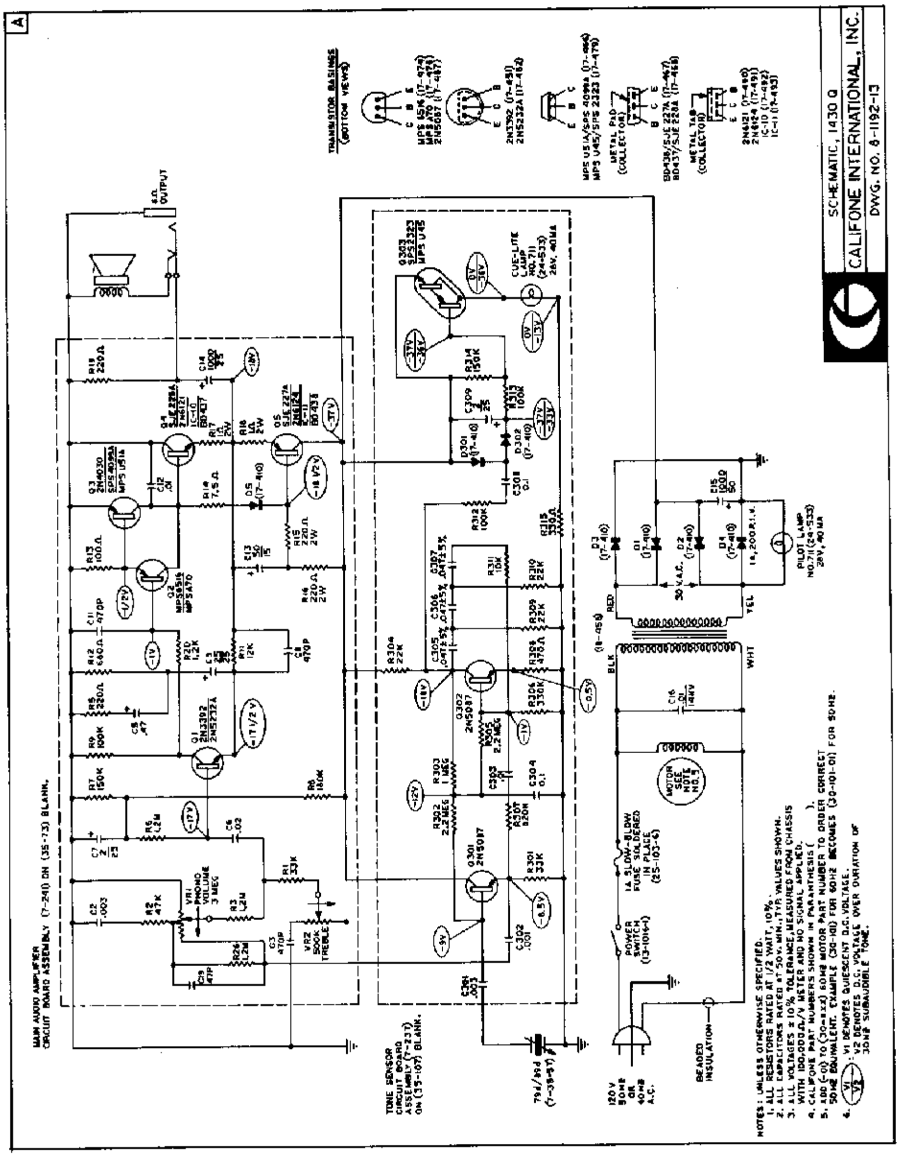
Output at Clipping: 8V RMS into 8 Ohms
Signal-to-Noise Ratio: 50db
Residual Noise: -40db
Signal-to-Rumble: 20db
Microphone Sensitivity: 35MV (1450K & 1455K Only)
Harmonic Distortion: 5%
Stylus Pressure: 6-8 Grams
Speed Variation: +10 to -20% of Nominal (1435K & 1455K Only)

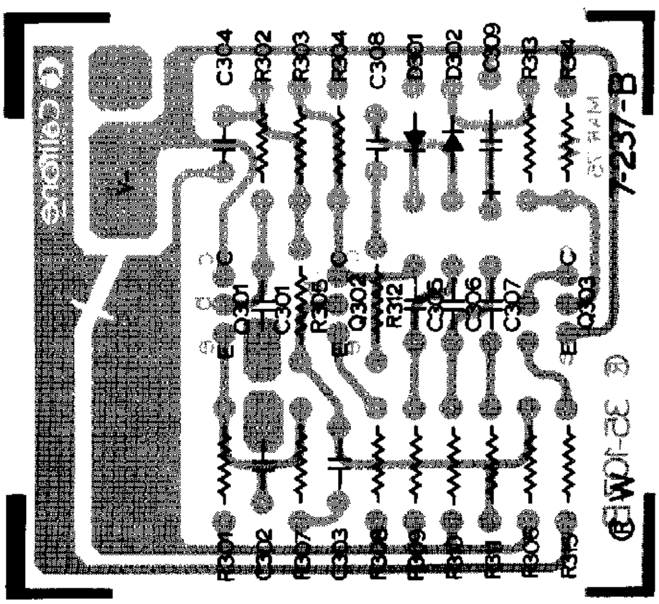




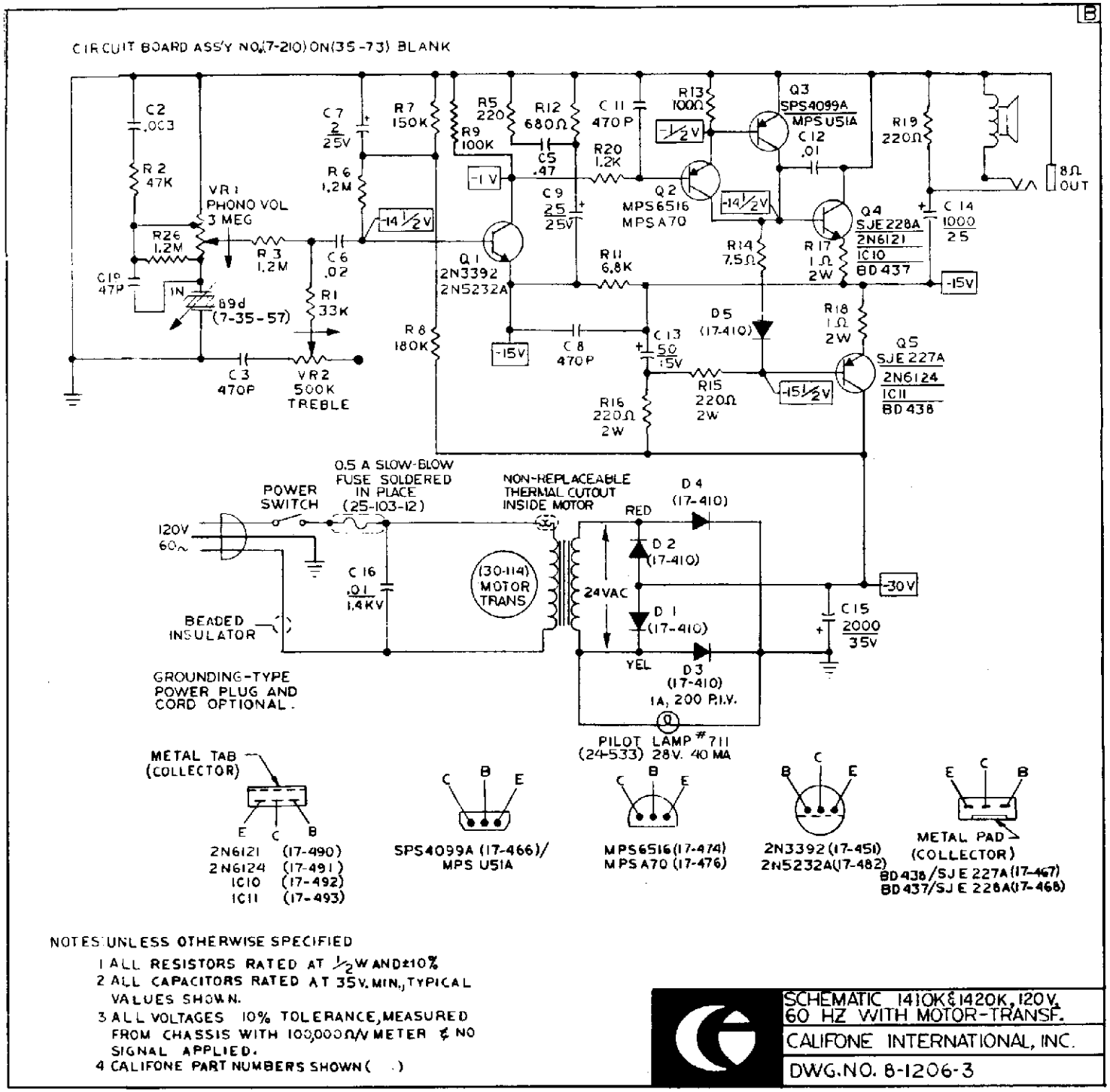
7-242

DESCRIPTION OF CHANGES: C2 was Q1; C3 was Q2; C5 A was 1.0M, R3 A was 1.8M, R3 B


SCHEMATIC, 1430 Q
CALIFONE INTERNATIONAL, INC.
DWG. NO. 8-1192-13
TRANSISTOR BASINGS (BOTTOM VIEWS)
MAIN AUDIO AMPLIFIER CIRCUIT BOARD ASSEMBLY (7-241) ON (35-73) BLANK.
TONE SENSOR CIRCUIT BOARD ASSEMBLY (7-237) ON (35-107) BLANK.
8Ω OUTPUT
BEADED INSULATION
120 V 50HZ OR 60HZ A.C.


7-237-B

7-237



NOTES: UNLESS OTHERWISE SPECIFIED

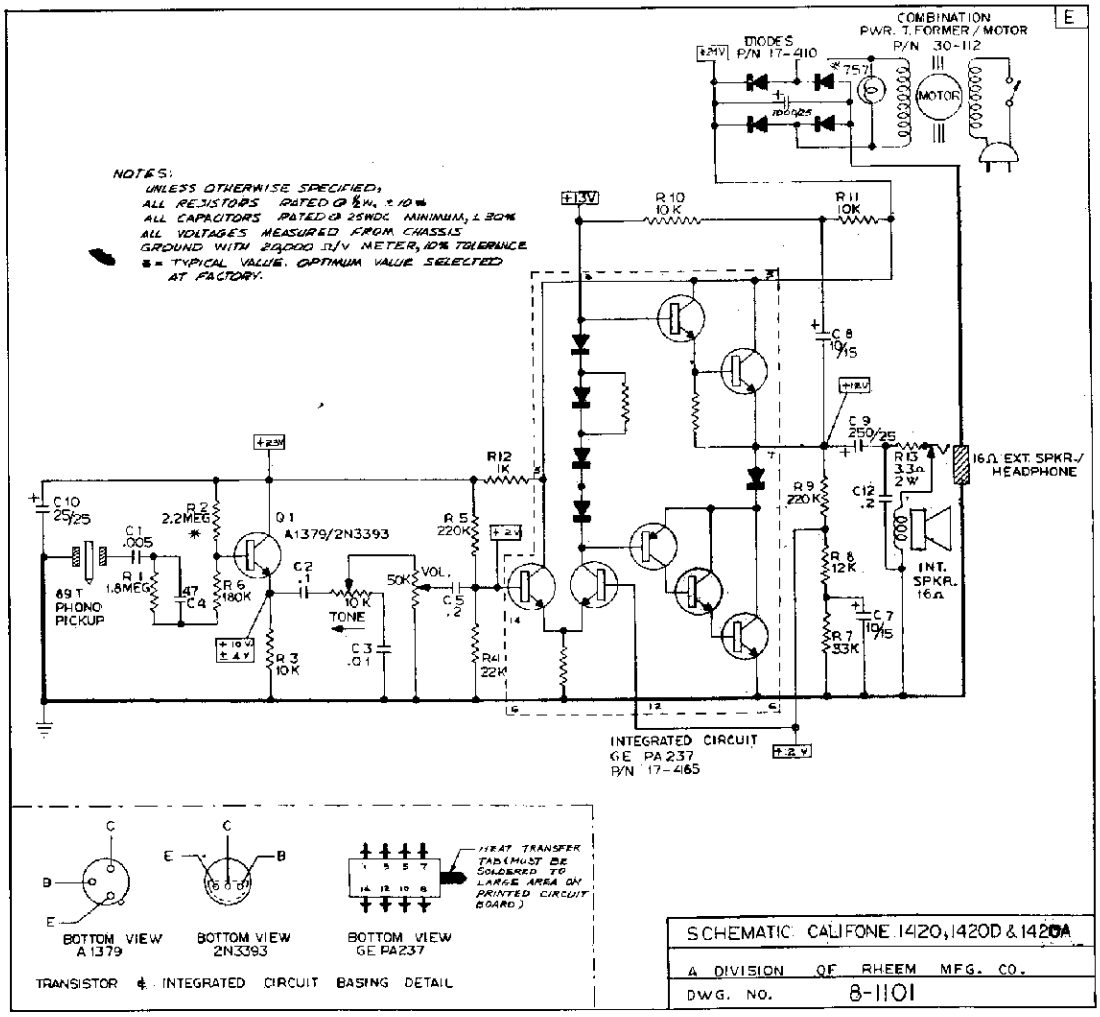
1. ALL RESISTORS RATED AT ½W AND ±10%
2. ALL CAPACITORS RATED AT 35V. MIN., TYPICAL VALUES SHOWN.
3. ALL VOLTAGES 10% TOLERANCE, MEASURED FROM CHASSIS WITH 100,000Ω/V METER & NO SIGNAL APPLIED.
4. CALIFONE PART NUMBERS SHOWN ( )

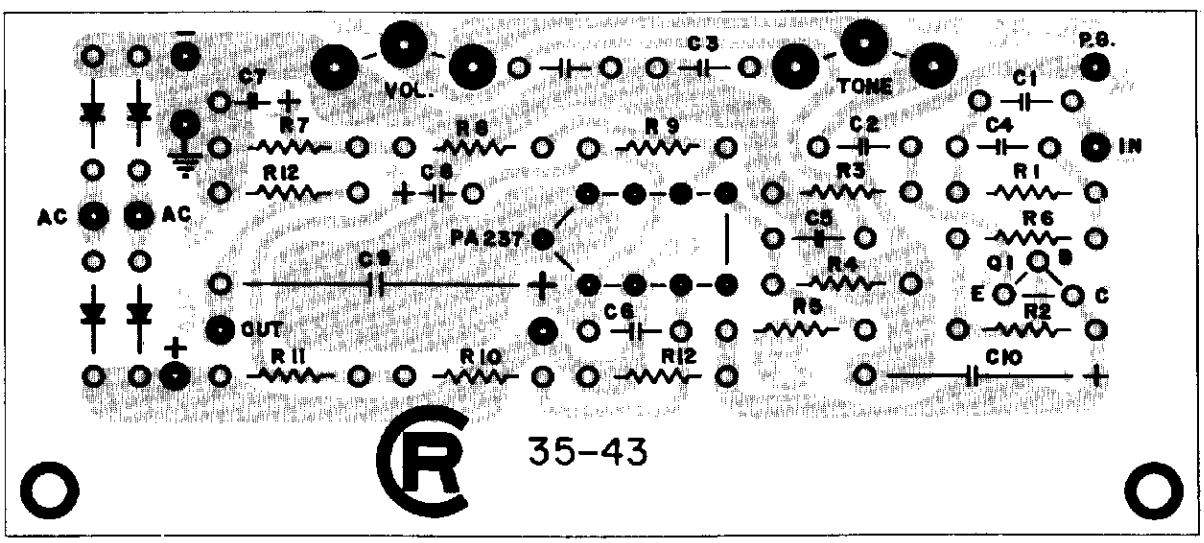
SCHEMATIC 1410K & 1420K, 120V, 60 HZ WITH MOTOR-TRANSF.

CALIFONE INTERNATIONAL, INC.

DWG. NO. 8-1206-3

MODEL 1420/1420D





VOLTAGE CHART

Q1

E	+23V
B	-
C	+10V ± 4V

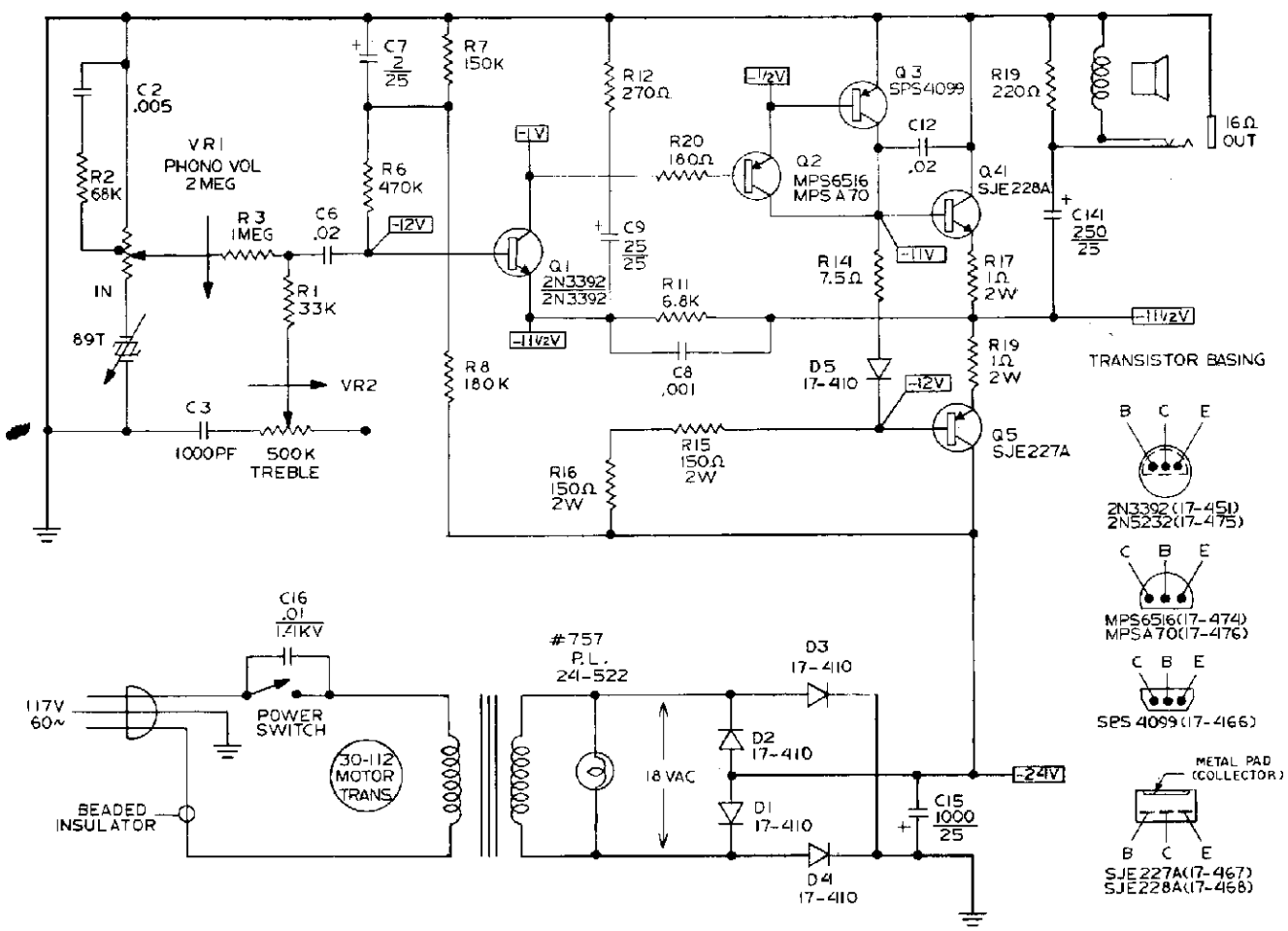
IC TERMINALS

1	3	5	7	8	10	12	14
-	+13	+24	+12	-	-	+2	+2

CALIFONE

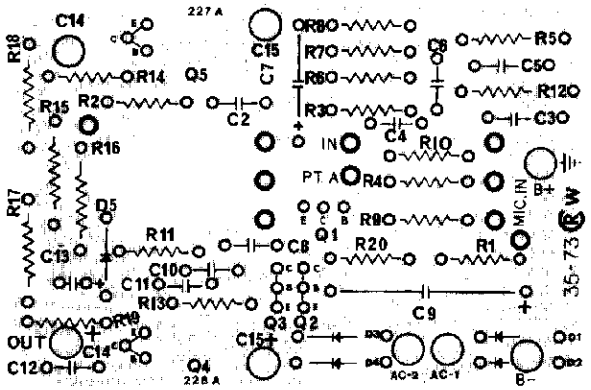
SERVICE DATA SHEET

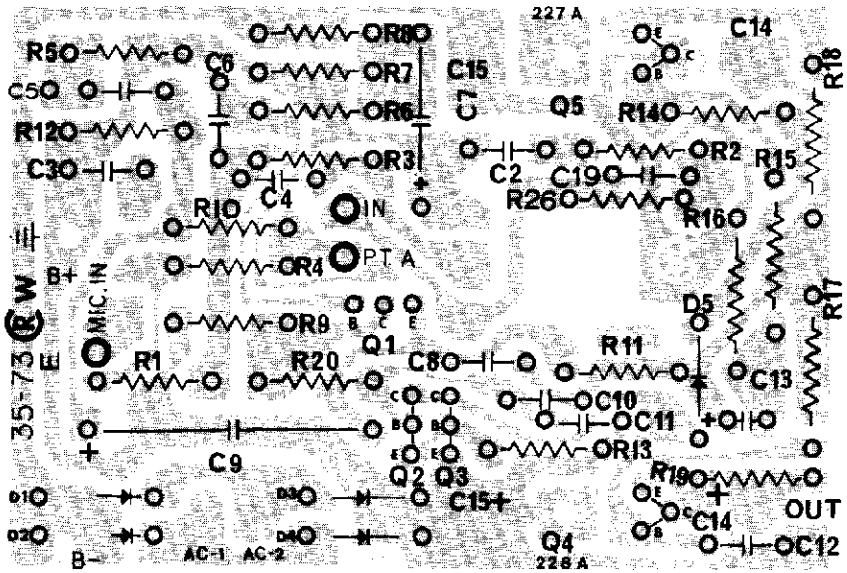
MODEL 1420B



NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL RESISTORS RATED AT ½ W AND ± 10%.
2. ALL CAPACITORS RATED AT 35V MIN, TYPICAL VALUES SHOWN.
3. ALL VOLTAGES ±10% TOLERANCE, MEASURED FROM CHASSIS WITH 100,000 Ω/V METER & NO SIGNAL APPLIED.

SCHEMATIC 1420 B
RHEEM CALIFONE A DIVISION OF RHEEM MFG COMPANY
DWG. NO. 8-1206





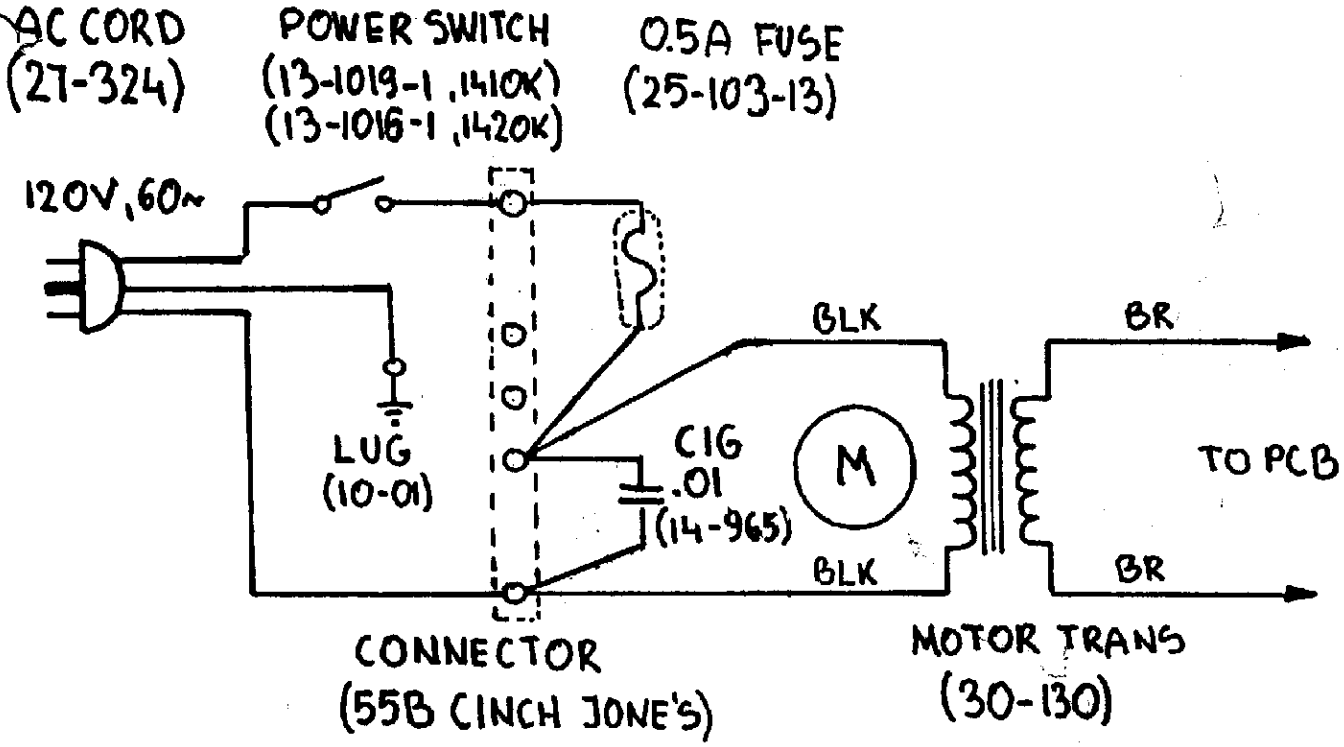
DESCRIPTION OF CHANGES: C2 was .01; C3 was .001;
R3 and R6 were 330K; R11 was 3.3K;
added C5, C19, R5 and R26.

CALIFONE SERVICE BULLETIN

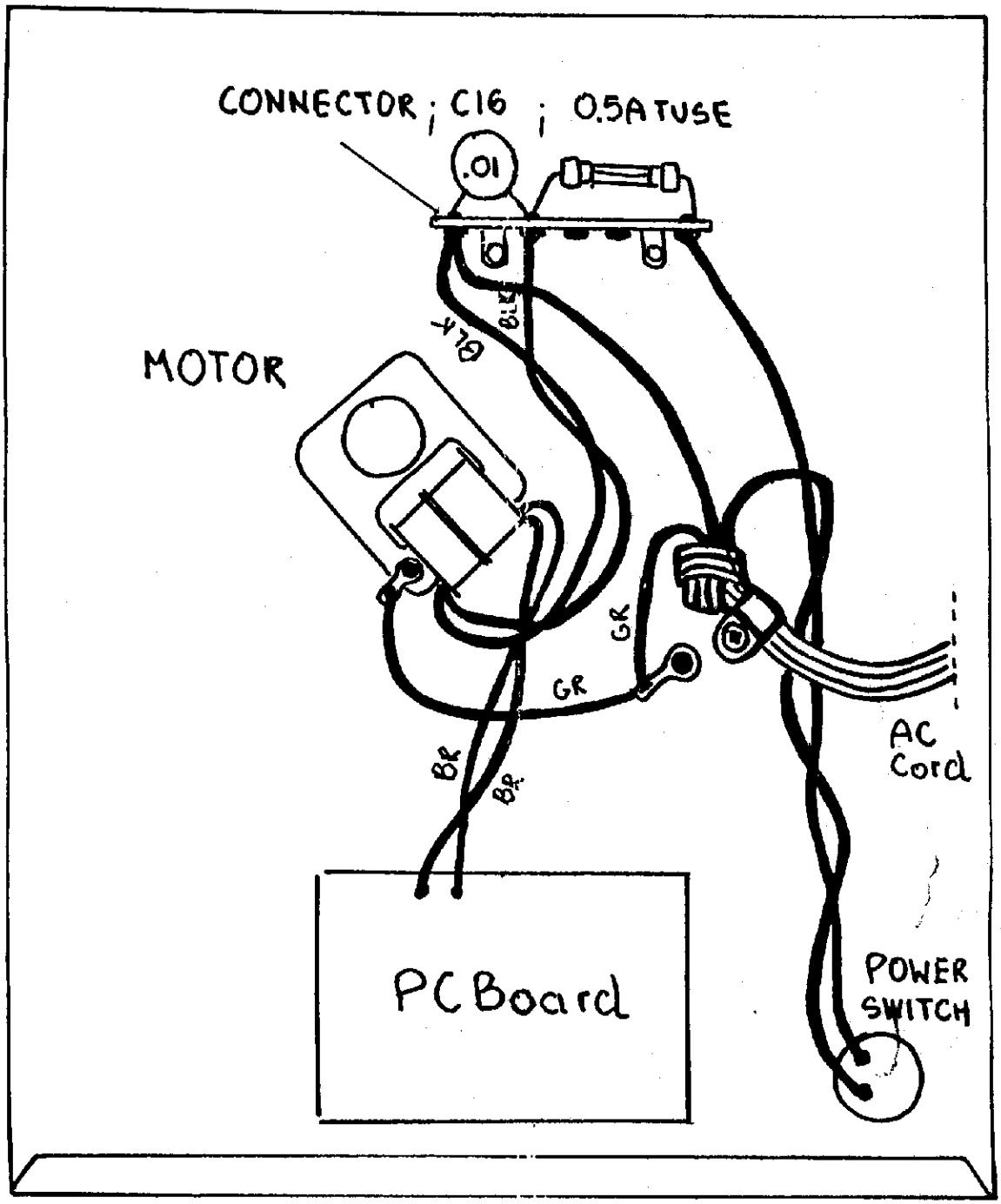
JAN 15 1985
MODEL 1410K
1420K

SUBJECT: PRODUCTION CHANGE

1. MOTOR TRANS. 30-123 CHANGED TO 30-130
2. ADD CONNECTOR 55B CINCH JONE'S
3. REQUIRE CHANGES IN WIRING



DRAWING 1 : POWER SUPPLY SCHEMATIC MODEL 1410K
1420K



DRAWING 2: CHASSIS PARTS LAYOUT AND WIRING

MODEL 1410K, 1420K

October, 1990

CALIFONE SERVICE BULLETIN #12 A

CONVERSION AC PHONO MOTOR TO DC MOTOR

Modification Procedure for 1435K, 1455K, and 1815K:

1. Using the drilling template provided, mark the two centers for the new speed control potentiometer #013-1204-00. Drill the 3/8 inch diameter hole by starting with a small hole size and increasing the hole diameter until the required 3/8 diameter is reached. (A "Unibit" stepped sheet-metal drill is quite useful to drill this hole.) Also, drill the #29 hole as shown for locating the lug 7/16" in front of the 3/8 diameter hole.

2. Install the new speed-control potentiometer into the two added holes. Insert the tab so that it prevents the control from rotating. Assemble and tighten hex nut #028-9002-00 onto the threaded bushing. Push black plastic knob #025-0353-00 onto the control shaft.

3. Turn deck to expose its bottom side. Cut off R102 resistor from top of motor control PC board as indicated in diagram B.

4. Attach R107, 56 Ohm 1/4w resistor #005-1027-00 to the left hand lug (with lugs down) of the R106 speed control potentiometer as shown in diagram B. Attach the yellow wire from the motor control PC board to R107. Solder both connections.

5. Attach the brown wire from the motor control PC board to the right-hand lug of R106 speed control. Extend the wire to provide a jumper to the center lug of the speed control R106. Solder both connections.

6. Apply power to the phonograph and check it's operation. Varying the speed control potentiometer to its limits should change the speed at 33 or 45 RPM by +10%. Replace deck into it's case.

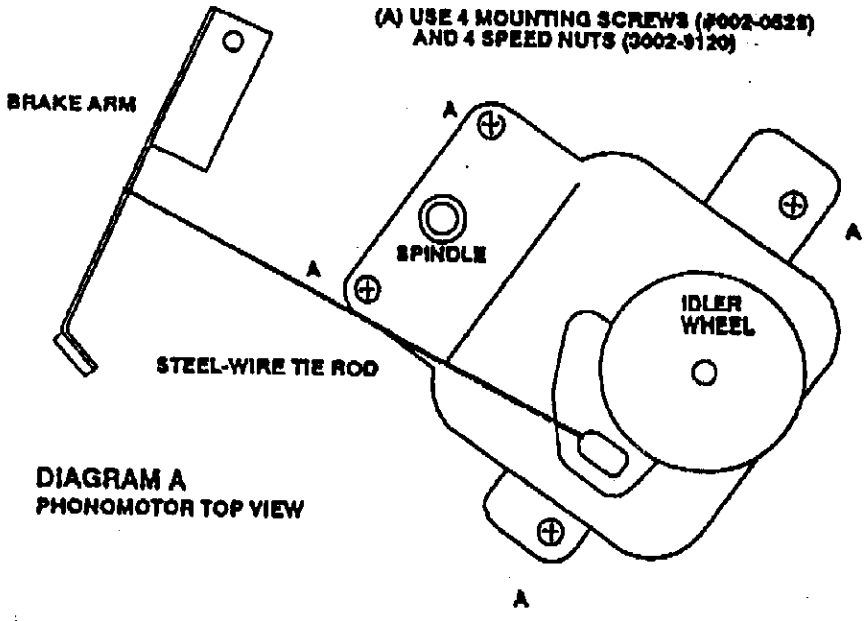
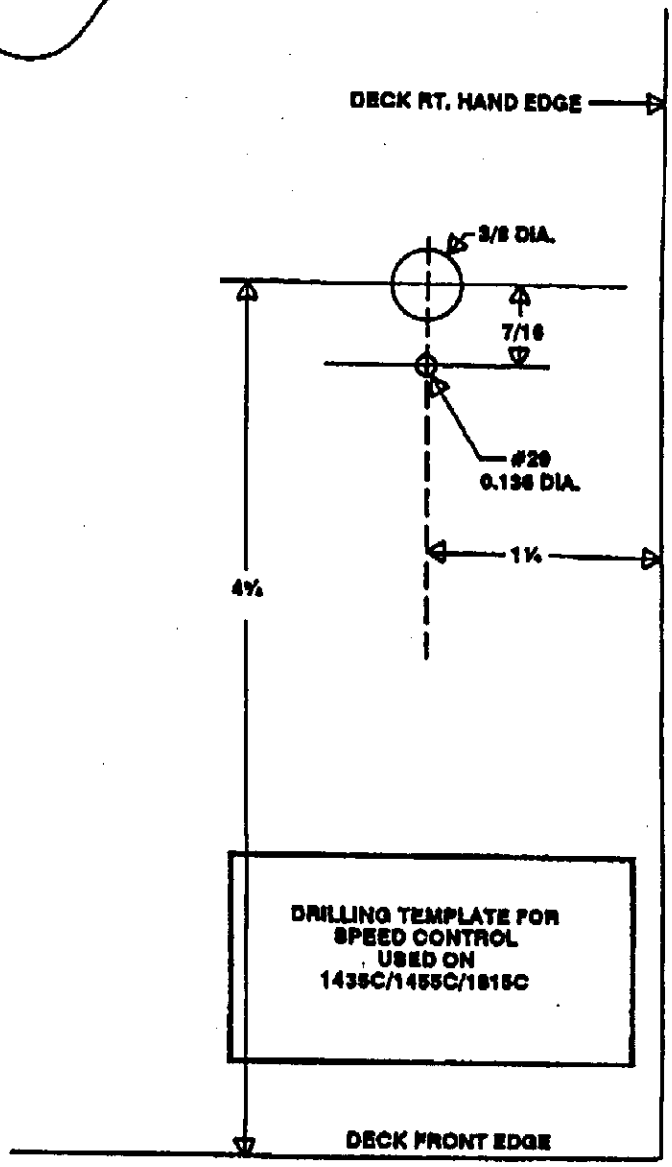
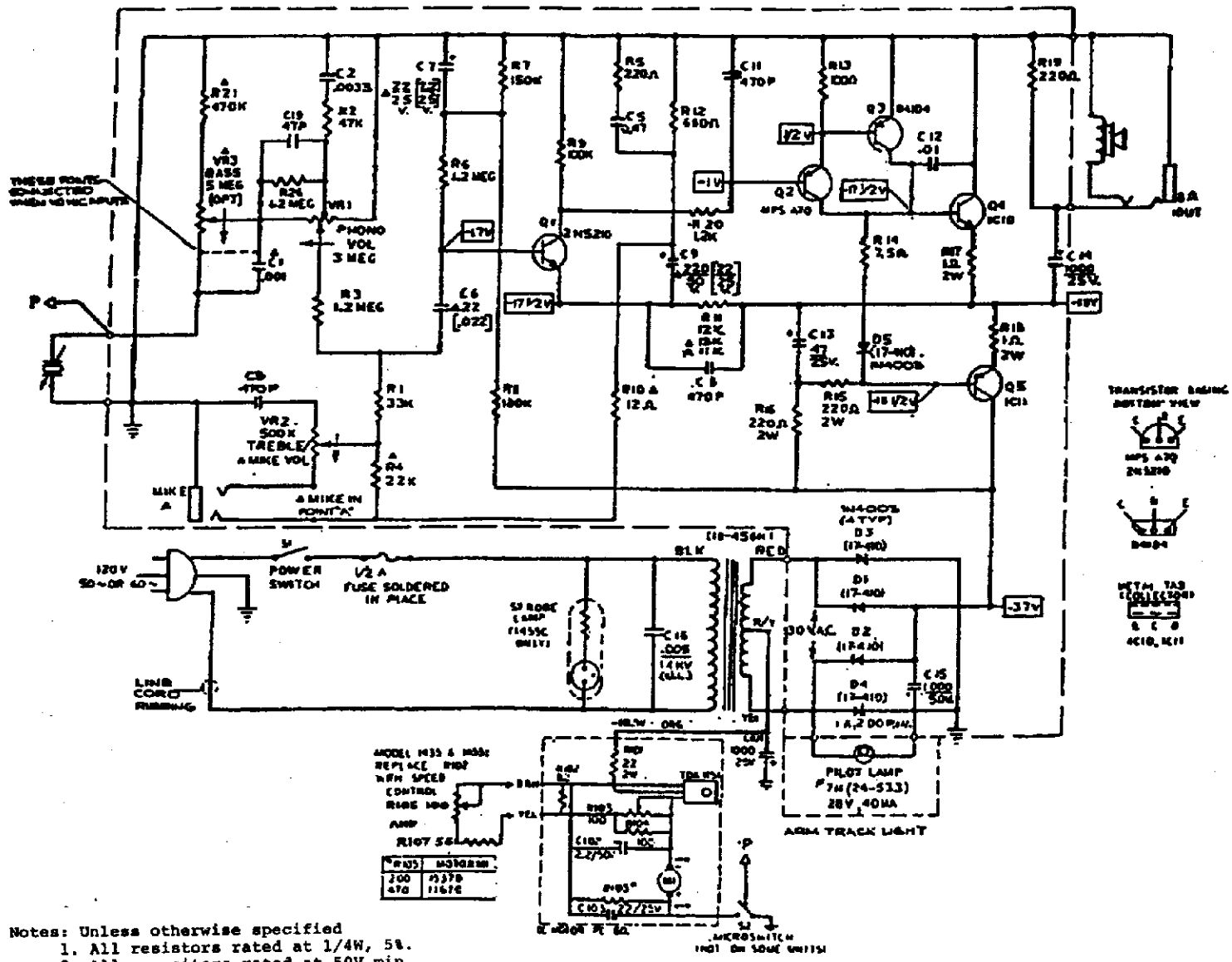


DIAGRAM A
PHONOMOTOR TOP VIEW



CIRCUIT BOARD ASS'Y (7-241) FOR MODELS 1430C & 1435C ON (05-73) PC BOARD

CIRCUIT BOARD ASS'Y (7-242) FOR MODELS 1450C & 1455C ON (05-73) PC BOARD



SCHEMATIC: 1430C, 1435C, 1450C 1455C W/DC PHONOMOTOR
CALIFONE INTERNATIONAL
DWG NO. 8-1192-6

Rheem CALIFONE SERVICE DATA SHEET

MODEL 1410/1440 (Revision "A")

In order to reduce voltage amplification, capacitor C3 (.02 mfd, P/N 14-741) has been replaced with resistor R1 (2.2 Megohms, P/N 5-580).