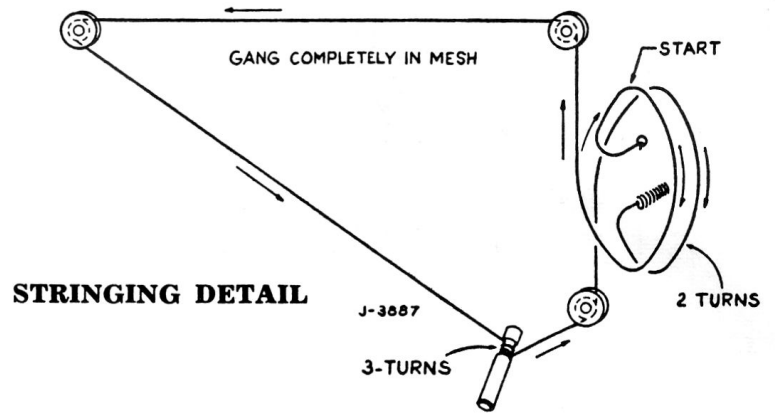


**ALIGNMENT AND SENSITIVITY**  
SIGNAL GENERATOR MODULATED 30% AT 400 CY.

STEP	APPLY SIGNAL AT KC	TO	THRU SERIES DUMPLY	SET GANG AT	ADJUST FOR MAX. OUTPUT	NOMINAL SENSITIVITY FOR 500 MILLIWATTS OUTPUT
1	455	6BA6 1 <sup>st</sup> PIN	.05 $\mu$ F	—	2 <sup>nd</sup> I.F.	THESE VALUES APPLY WITH TONE CONTROL IN MAX. POSITION. 4500 $\mu$ V
2	455	6BE6 27 PIN	.05 $\mu$ F	MIN. CAPACITY	1 <sup>st</sup> I.F. 2 <sup>nd</sup> I.F.	160 $\mu$ V
3	1460	ANT.	200 $\mu$ F	1460 KC.	OSC. INTERSTAGE AND ANT. TRIMMERS	16 MV.
4	600	ANT.	200 $\mu$ F	600 KC.	OSC. INTERSTAGE AND ANT. SLUGS	20 MV.
REPEAT STEPS 3 & 4 TILL SET IS PROPERLY ALIGNED						



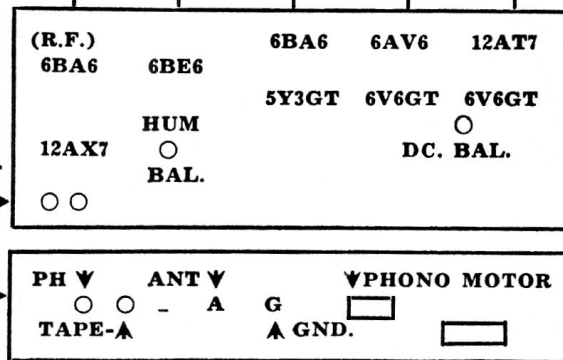
## Electrohome Crescendo IIIA

SELECTOR SWITCH    TUNING    LEVEL CONTOUR    BASE TONE    TREBLE TONE & OFF-ON SWITCH

- NOTES ON ANTENNA CIRCUIT**
1. SHORT OUT ANT. TERMINAL TO GND. WHEN SET IS OPERATED ON LOW IMPEDANCE LOOP ALONE.
  2. IF AN EXTERNAL ANT. IS TO BE USED REMOVE SHORT FROM ANT. TERMINAL AND CONNECT ANTENNA TO ANTENNA TERMINAL.
  3. FOR ACCURATE ALIGNMENT THE LOW IMP. LOOP SHOULD BE CONNECTED AS INDICATED. HOWEVER IF THIS IS INCONVENIENT AN EQUIVALENT INDUCTANCE AND CAPACITY IN PARALLEL MAY BE SUBSTITUTED FOR THE LOW IMP. LOOP. THE CAPACITY BEING 17  $\mu$ F AND THE INDUCTANCE 44  $\mu$ H. 44 TURNS OF #22 PLASTIC COVERED HOOK UP WIRE CLOSE WOUND ON A 2" DIA. FORM WITH 6" LEADS WOULD BE SUITABLE.

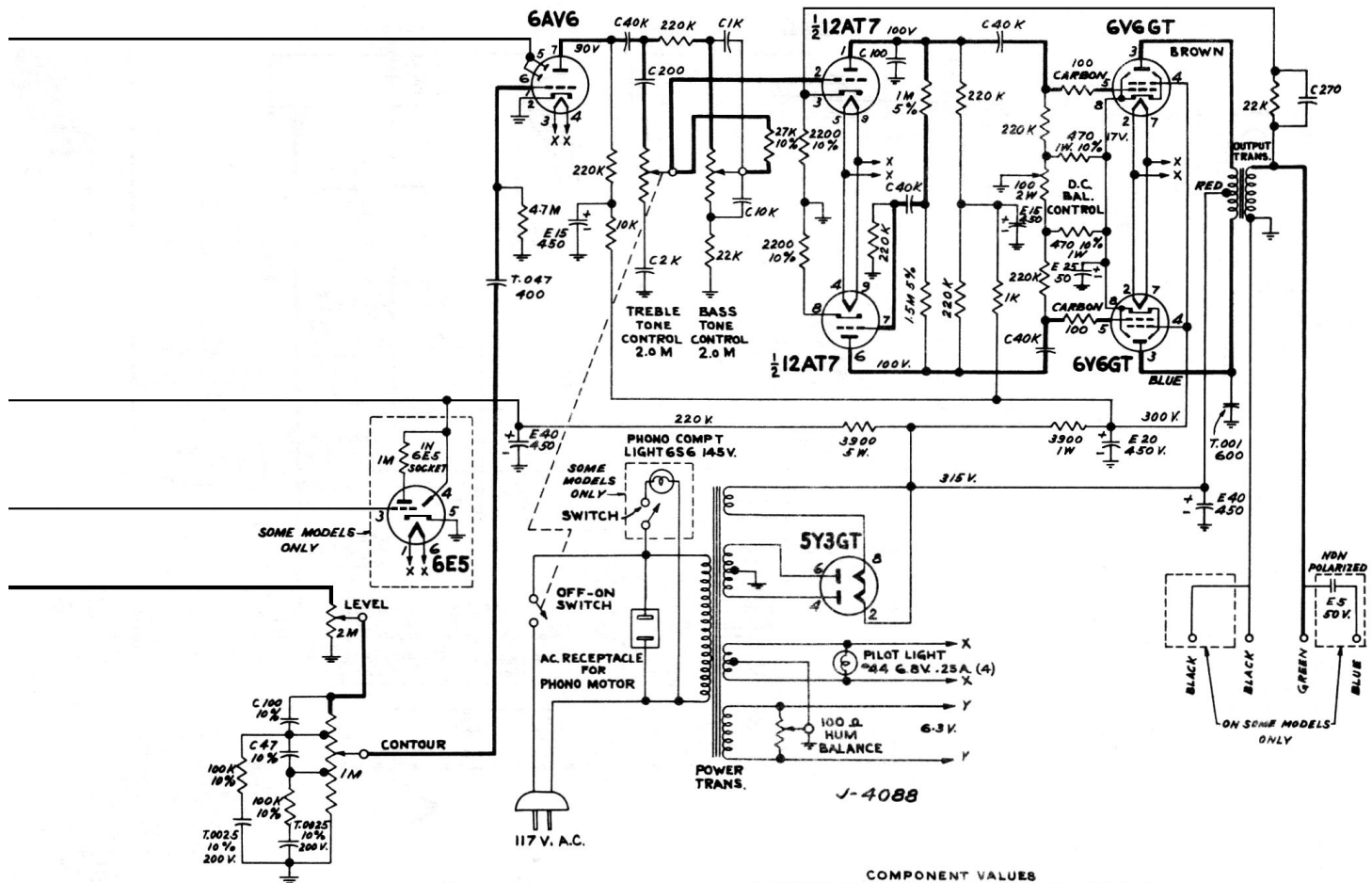
- SWITCH SHOWN IN EXTREME COUNTER CLOCKWISE POSITION  
SWITCH POSITIONS:
1. FLAT
  2. R.I.A.A.
  3. B EARLY
  4. TAPE
  5. RADIO, 10 KC FILTER OUT.
  6. RADIO, 10 KC FILTER IN.

ALL VOLTAGES  $\pm 10\%$  MEASURED TO B- WITH 20,000 OHM/VOLT METER, 117 VOLT 60 CYCLE LINE AND ZERO SIGNAL INPUT.



**CRESCENDO IIIA**  
**SPEAKER LEADS**  
BLACK  
GREEN

▲ SPEAKER CONNECTIONS SEE ABOVE



### SPECIFICATIONS

- Standard Broadcast Range..... 535 Kc — 1650 Kc
- Intermediate Frequency ..... 455 Kc
- Power Consumption (Radio Only)..... 90 Watts
- Power Consumption (Radio and Phono)..... 105 Watts
- With tone controls in flat position, level and contour controls full clockwise, all measurements (nominal) taken at level control input and 16 ohm output.
- Frequency Response — 1W level  $\pm$  1 db., 30 cps to 15,000 cps.
- \*Harmonic Distortion — Less than 1% at normal operating levels.
- \*Intermodulation Distortion — Less than 1% at normal operating levels (60 and 3000 cps. 4:1)
- Hum and Noise — 80 db. below rated output.
- Maximum Power Output at 400 C.P.S. — 14 Watts.
- Undistorted Power Output at 400 C.P.S. — 10 Watts.
- \*With matched output Tubes  $\pm$  5%.

### HUM BALANCER

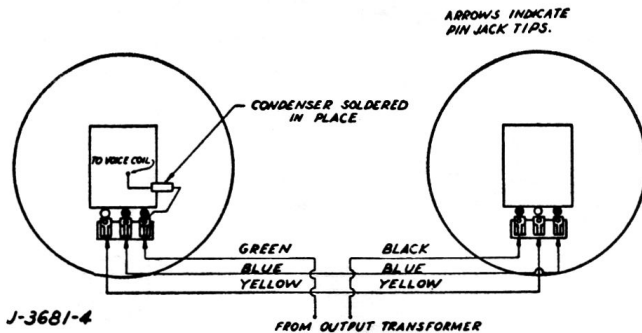
A Hum-Balancer has been incorporated in this receiver to balance out hum which may be present because of the high gain and wide frequency response of the audio portion of the receiver. It may be found necessary to re-adjust the hum-balancer for minimum hum reproduction when the 12AX7 tube is replaced. Set the tone control in its extreme left hand position, turn the selector switch to phono position, the volume control full on and adjust the hum-balancer for minimum hum level. When writing for Service Information or Parts please quote Model Number, Serial Number and finish of cabinet.

COMPONENT VALUES  
 RESISTORS: HALF WATT, UNLESS OTHERWISE SPECIFIED.  
 20% TOLERANCE, UNLESS OTHERWISE SPECIFIED.  
 K = 1000 OHMS  
 M = 10,000,000 OHMS.  
 CONDENSERS: T = TUBULAR, FOLLOWED BY CAPACITY IN MFD. AND D.C. M.V.  
 E = ELECTROLYTIC, FOLLOWED BY CAP. IN MFD. AND D.C. M.V.  
 C = CERAMIC, FOLLOWED BY CAP. IN MMFD. & TOL. IF CRITICAL.  
 M = MICA, FOLLOWED BY CAP. IN MMFD. & TOL. IF CRITICAL.  
 T.C. = TEMPERATURE COMPENSATED.

CONNECT D.C. VOLTMETER ACROSS OUTPUT TRANSFORMER PRIMARY AND ADJUST D.C. BALANCE CONTROL FOR ZERO VOLTAGE.

### SPEAKER CONNECTIONS

OUTPUT TO 16 OHM VOICE COIL



J-3681-4

ARROWS INDICATE PIN JACK TIPS.

- BLACK DOT
- YELLOW DOT
- GREEN DOT
- BLUE DOT

### REPLACEMENT NEEDLES

- LP RPJ-01S (Sapphire)
- \* RPJ-01D (Diamond)
- 78 RPJ-03S (Sapphire)

\*This is not supplied in original equipment, it may be procured at extra cost as a replacement for RPJ-01S needle if a diamond stylus is preferred.