

have ruled out components." Scott's 382-C AM/FM stereo receiver also received "Best Buy" plaudits, as CONSUMER GUIDE stated it "possesses advanced engineering techniques that result in level of fail-safe performance."

DELUXE QUADRANT SPEAKER NOW READY

Just in time to tie in with increasing four-channel installations, our deluxe Quadrant Q-101 speaker system is now available for quantity shipment. The Q-101 features two 10" woofers, four 4 1/4" midranges, and four 3" tweeters, in a contemporary walnut air-suspension enclosure. Set to retail at \$249.95 each, the Q-101 speaker systems are specifically designed for the "performance-above-all-else" audiophile. Continuous power handling capacity is 100 Watts, minimum amplifier power requirement is 10-12 Watts, and the frequency range is 35-20,000 Hz.

WANT A STATION? PICK A CARD!

Maynard, Mass. — Tuning in stations by the conventional knob-and-dial method may well become as outdated as crank-starting a car. . . that is, if Scott's new 433 tuner prototype is any indication of future trends.

The new Scott 433 Digital Synthesizer FM stereo tuner offers the audiophile four methods by which he can select his favorite stations. Not one utilizes a knob. The first involves the use of programmed cards. The listener inserts a card for the desired station into a special card-programming slot in the unit's front panel. The other three selection modes, activated by pushbuttons, are: 1. Automatic Station Scanning; 2. Automatic Stereo Station Scanning; and 3. Manual Channel Selection. Visual frequency indication is provided, not by a conventional dial-and-pointer, but by a 100% accurate digital, readout incorporating cold cathode indicators, identical to those used in today's computer applications.

How can a tuner select stations without the conventional knob-operated tuning condenser? The "secret" lies in crystal control, a system used in military and aerospace communications equipment. The 433 tuner uses a quartz crystal as a reference standard to provide a discrete series of scanning steps from center channel to center channel on any one of the 100 channels available on the 88.1

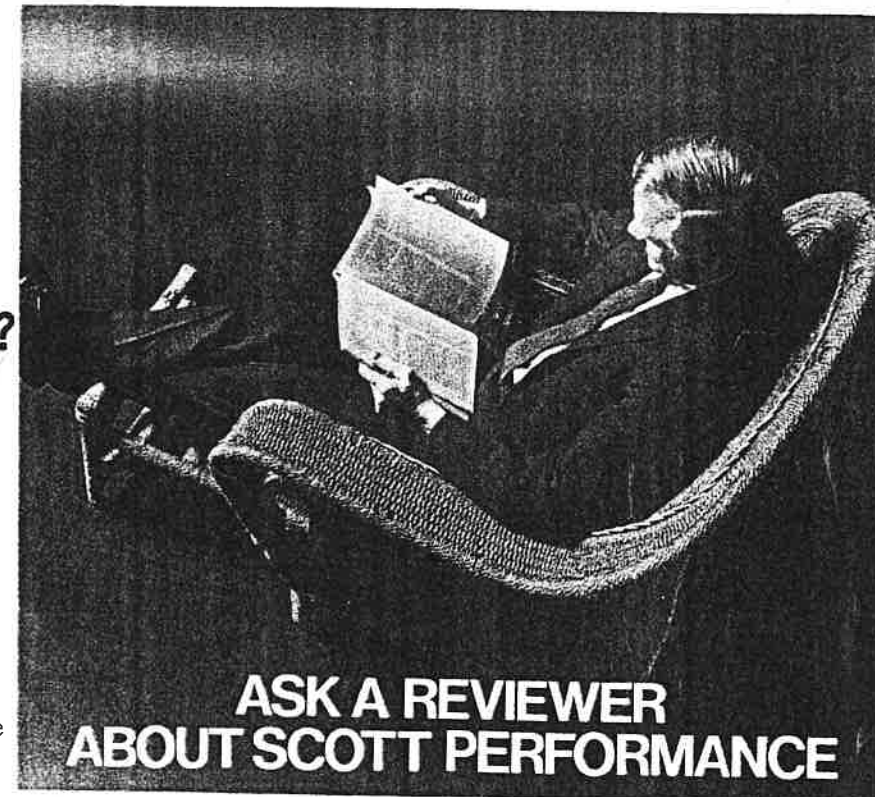
to 107.9 MHz FM band. Essential to the operation of this frequency synthesizer system are a Phase-Locked Loop, a Digital Programmable Divider, an electronically tuned RF section, and an Error Correction system using the quartz crystal to provide drift-free 100% accurate tuning on every frequency.

The control panel of the 433 is unique in that it incorporates no knobs. Features include: Multipath and Signal Strength Meters; FM Digital Readout; FM Stereo and Perfectune Indicators; Channel Scan Speed Control; Scan Mode Selectors (Channel, Stereo, Station); Scan Switch; Power On/Off Switch; FM Interstation Mut-

ing Switch; Mono/Stereo Mode Switch; Filter Switch; Tape Output; Card Programming Input Slot; Card Storage Compartment.

In addition to the conventional rear panel features, the 433 includes a 4-channel multiplex output jack. . . anticipating future 4-channel broadcast developments.

Don't look for the 433 on your local audio dealer's shelves. According to Scott's marketing department, the 433 is at present a developmental prototype. This means that it may be produced sometime in the future, or, more likely, it will serve as the inspiration for a whole new line of advanced Scott products.



ASK A REVIEWER ABOUT SCOTT PERFORMANCE

Hirsch-Houck Laboratories put the Scott 382-C 110-Watt AM/FM stereo receiver through its paces for a review in a recent issue of ELECTRONICS WORLD. In Hirsch-Houck's own words, here's how the Scott measured up:

" . . . the Perfectune FM tuning indicator . . . is far easier to use and more accurate than a zero-center tuning meter."

"AM . . . has a clean, undistorted sound . . . easy to listen to."

"The unit proved to be very sensitive, to no one's surprise."

"The FM tuner has an IHF usable sensitivity of 1.8 microvolts, with full limiting at 3 microvolts — one of the steepest limiting curves we have measured to date."

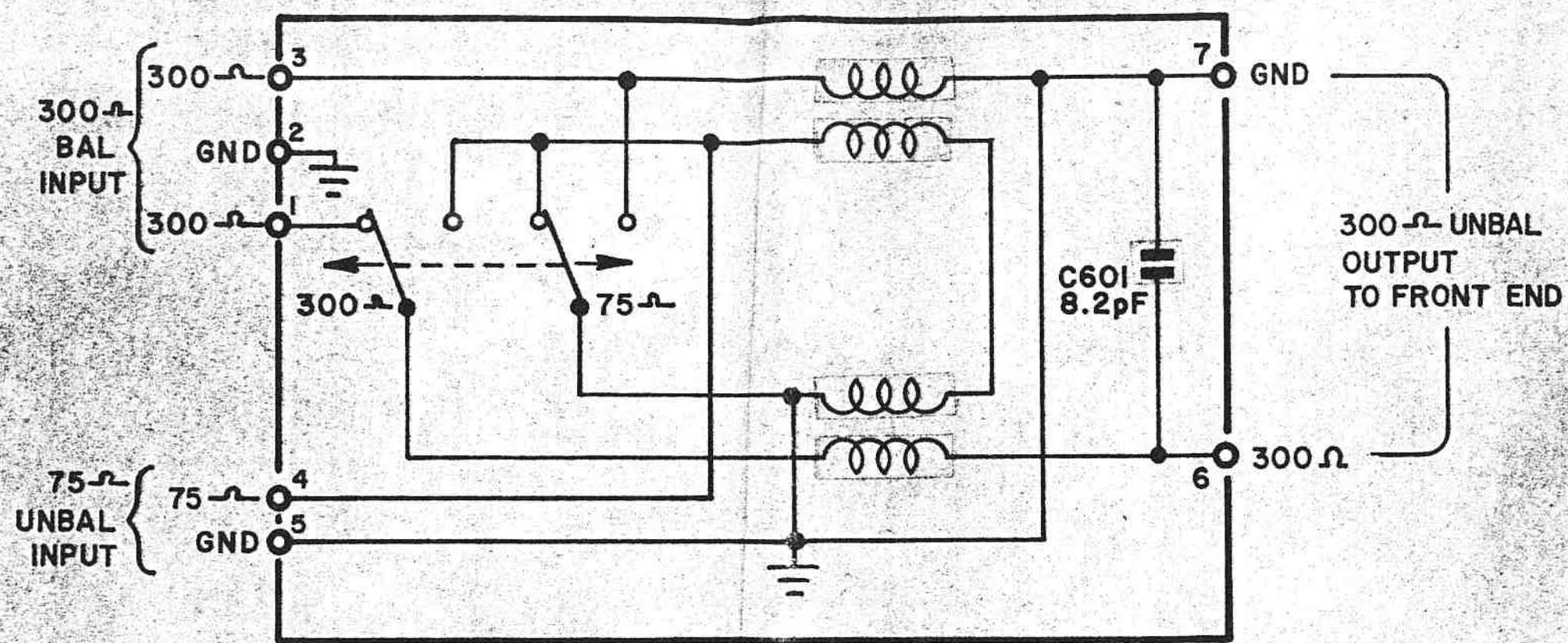
Make your own review . . . listen to the modestly priced Scott 382-C at your dealer's. For complete information on Scott stereo components, write:

SCOTT®

H. H. Scott, Inc., Dept. 1012 Maynard, Mass. 01754
Export: Scott International, Maynard, Mass. 01754


© 1970, H. H. Scott, Inc.

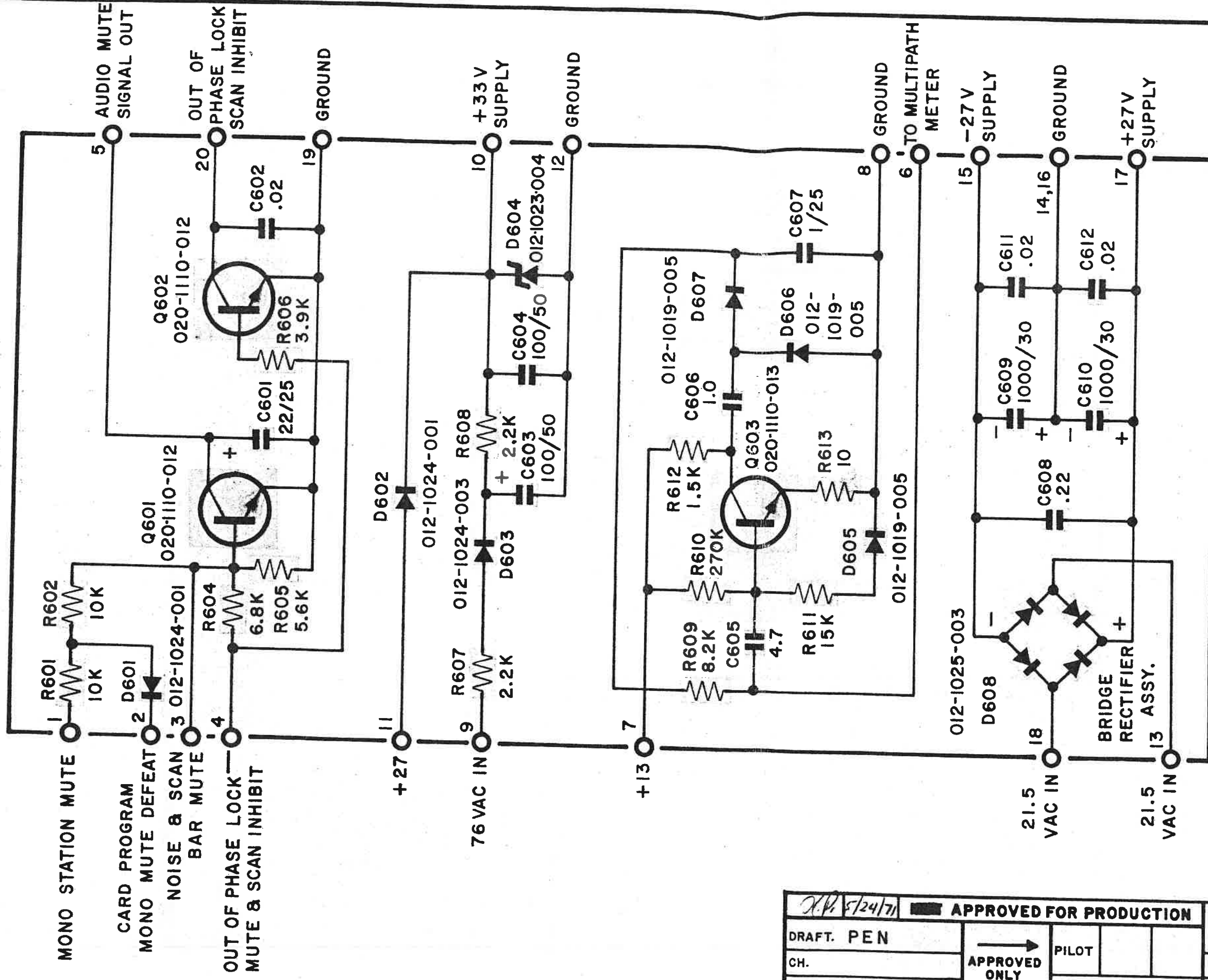
REVISIONS			
SYM	DESCRIPTION	DATE	APPR.
I	ECO 3530	11-25-70	LML



BALUN BOARD 100-1348-002

PC BD 019-1107-080

 H.H. SCOTT, INC. MAYNARD, MASS.		
BALUN BOARD		
SIZE A	DWG. NO. 100-1348-002	REV. I
ENG. DR	SHEET 1 OF 1	DATE 5/8/69



MULTIPATH-MUTING-SUPPLY
100-1346-004
P.C. BOARD 019-1107-105

REVISIONS			
SYM	DESCRIPTION	DATE	APPR.
1	ECO 3659 R	6-1-71	<i>J.P.</i>

J.P. 5/24/71 **APPROVED FOR PRODUCTION**

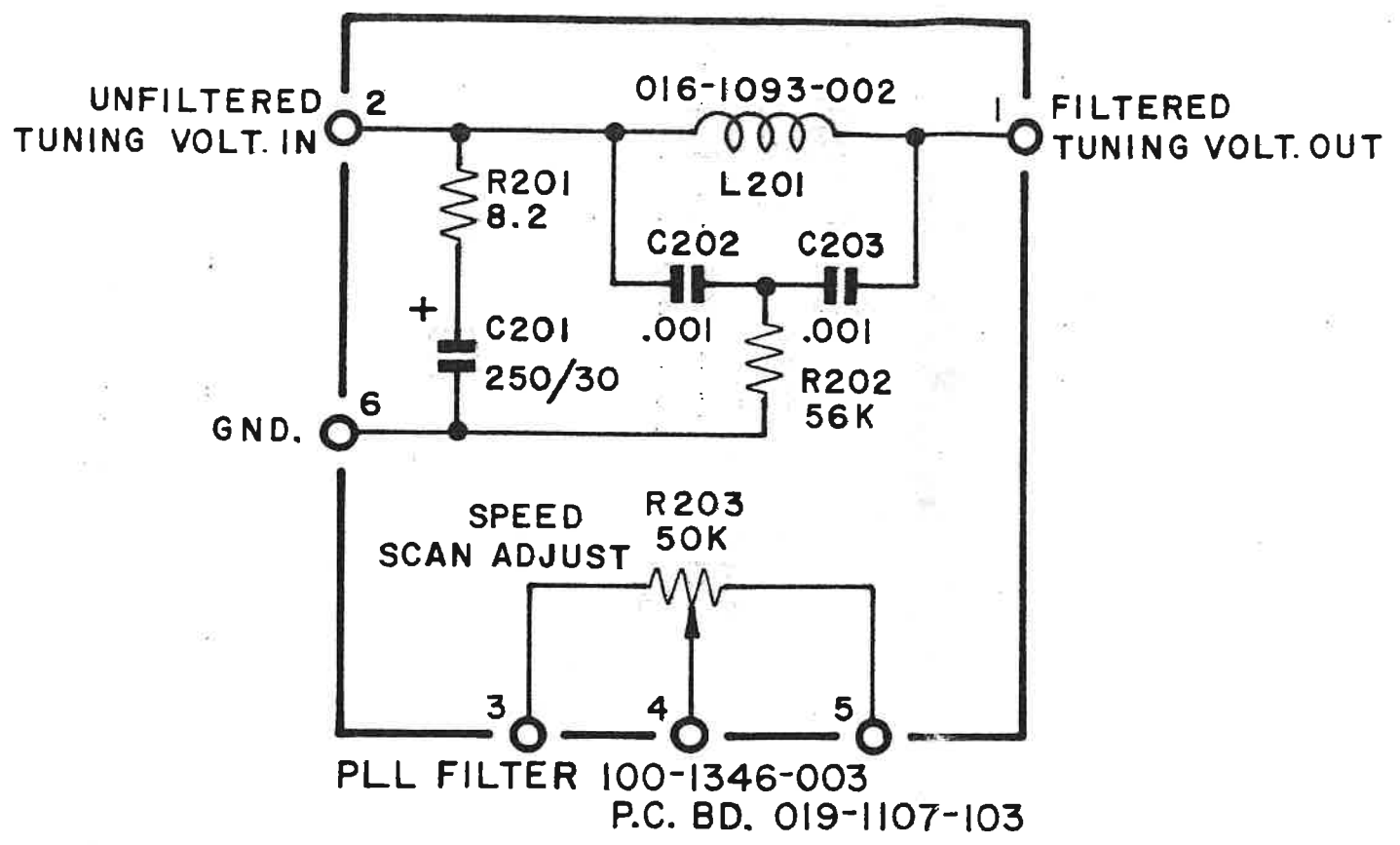
DRAFT. PEN	APPROVED ONLY FOR	PILOT
CH.	DATE 5-4-71	
SHEET 1 OF 1		

H.H. SCOTT, INC.
MAYNARD, MASS.

MULTIPATH-MUTING-SUPPLY

SIZE **B** DWG. NO. **100-1346-004** REV. **1**

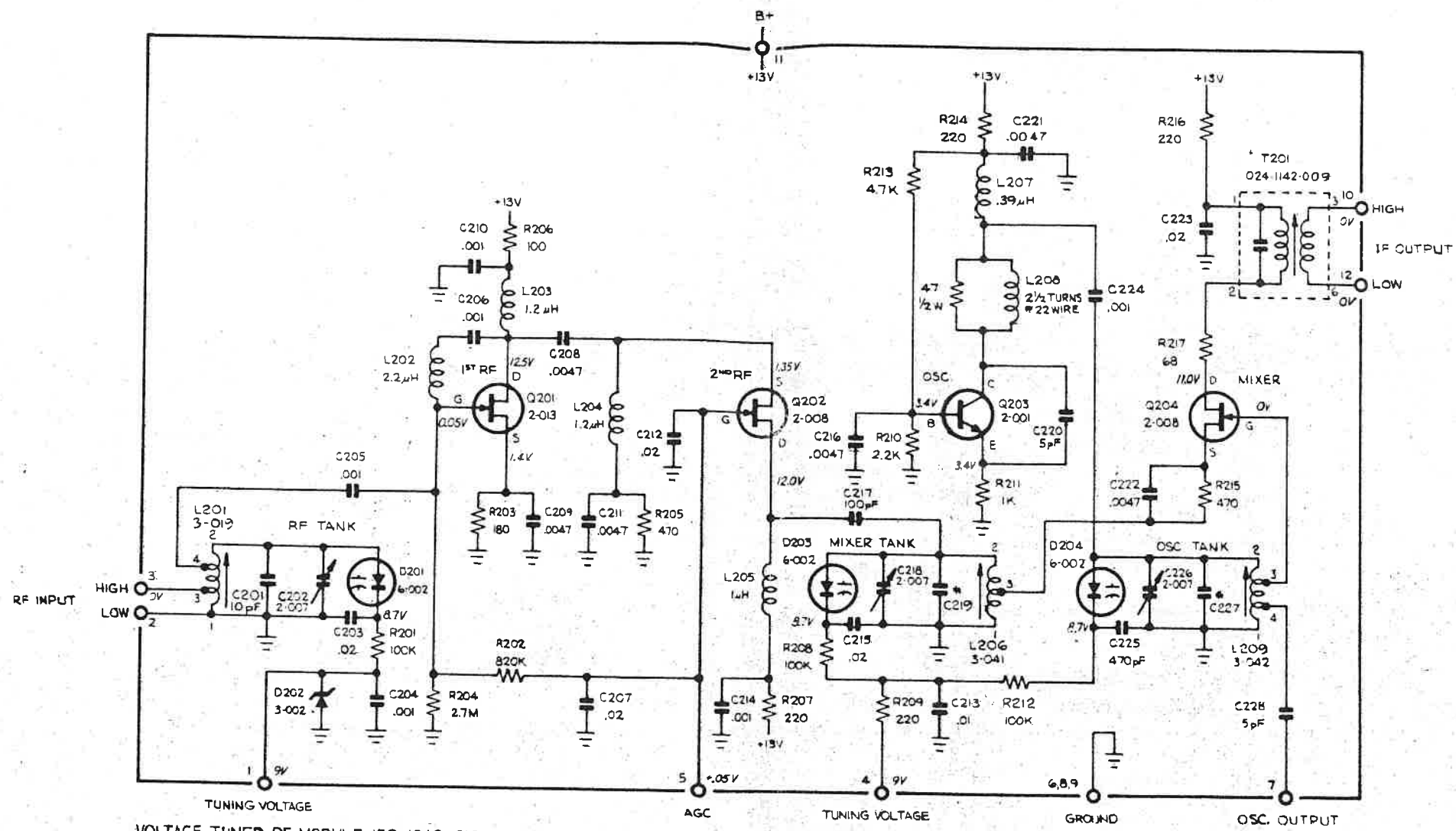
REVISIONS			
SYM	DESCRIPTION	DATE	APPR.



NOTES:

1. UNLESS OTHERWISE SPECIFIED; RESISTANCE IN OHMS $\pm 10\%$ 1/4 WATT, CAPACITANCE IN MFD'S.
2. HIGHEST SERIES NUMBERS ARE; L201, C203, R203,

2/5/21/71		APPROVED FOR PRODUCTION		H.H. SCOTT, INC. MAYNARD, MASS.	
DRAFT. PEN	APPROVED ONLY FOR	PILOT		PLL FILTER	
CH.		DATE 5-19-71		SIZE B	DWG. NO. 100-1346-003
SHEET 1 OF 1				REV. 0	



VOLTAGE TUNED RF MODULE 100-1343-010

PC BOARD 019-1107-095

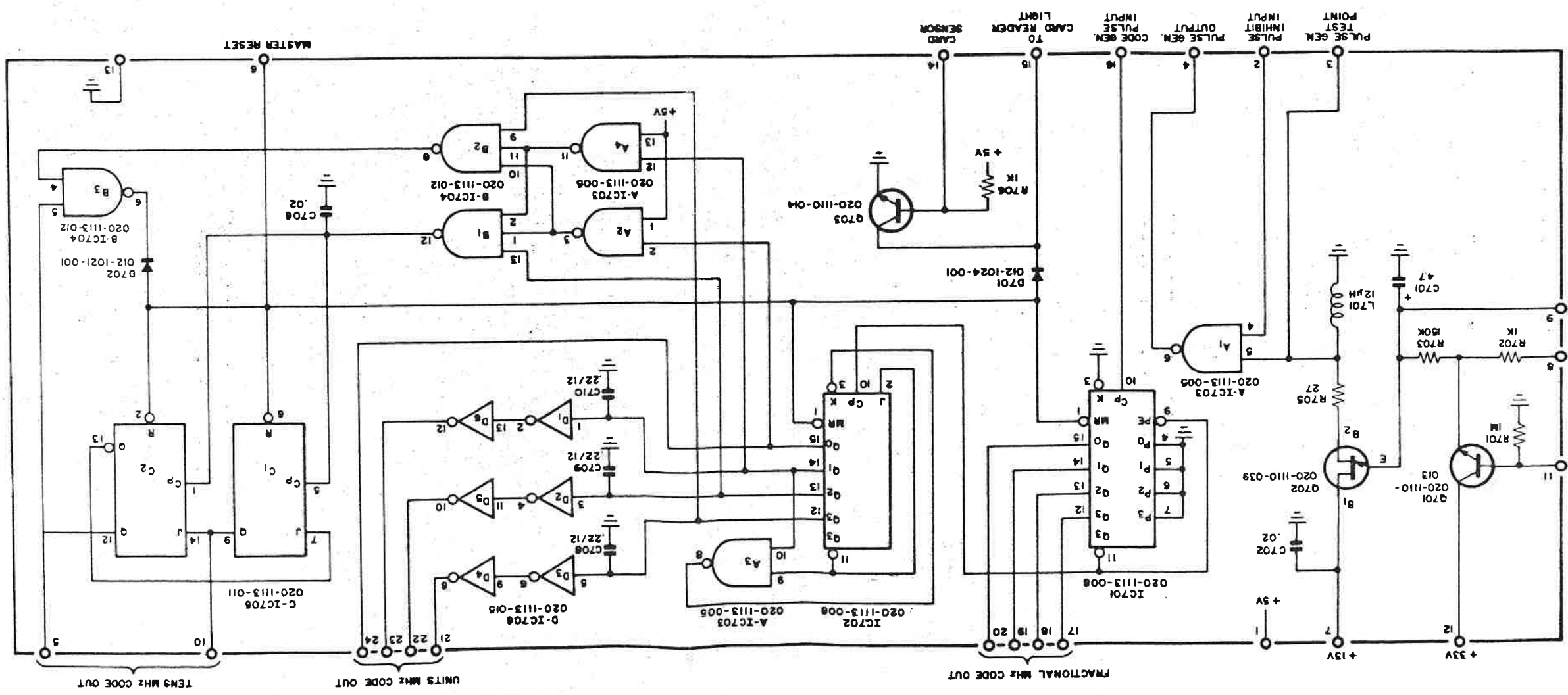
NOTES:

1. UNLESS OTHERWISE SPECIFIED; RESISTANCE IN OHMS $\pm 10\%$ 1/4 WATT, CAPACITANCE IN MFD'S.
2. ALL DC VOLTAGES $\pm 15\%$, MEASURED WITH RESPECT TO CHASSIS GROUND, USING V.T.V.M. AT 117V AC LINE, AND UNIT TUNED TO 107.9, NO SIGNAL.
3. PIN 1 ON L201, L206 & L209 IS START OF WINDING.
4. HIGHEST SERIES NUMBERS ARE: R217, C228, D204, Q204, L209, T201.

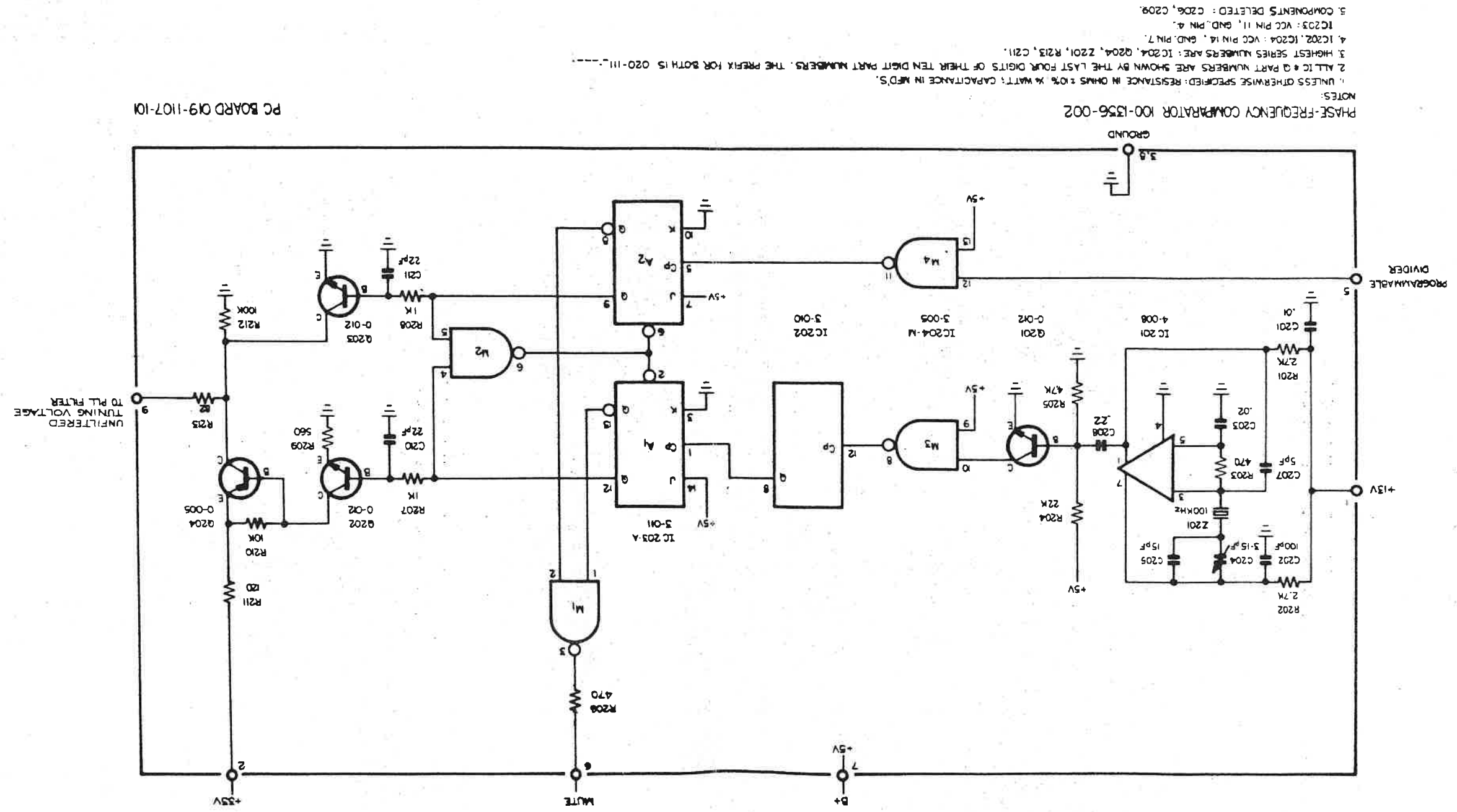
* USED SELECTIVELY.

APPROVED FOR PRODUCTION		DATE 8 28 71	
DRAFT OR	APPROVED ONLY	VOLTAGE TUNED RF MIXER & OSCILLATOR	
CH	FILE	100-1343-010	

SEQUENTIAL CODE GENERATOR 100-1356-004
 P.C. BOARD 019-1107-092



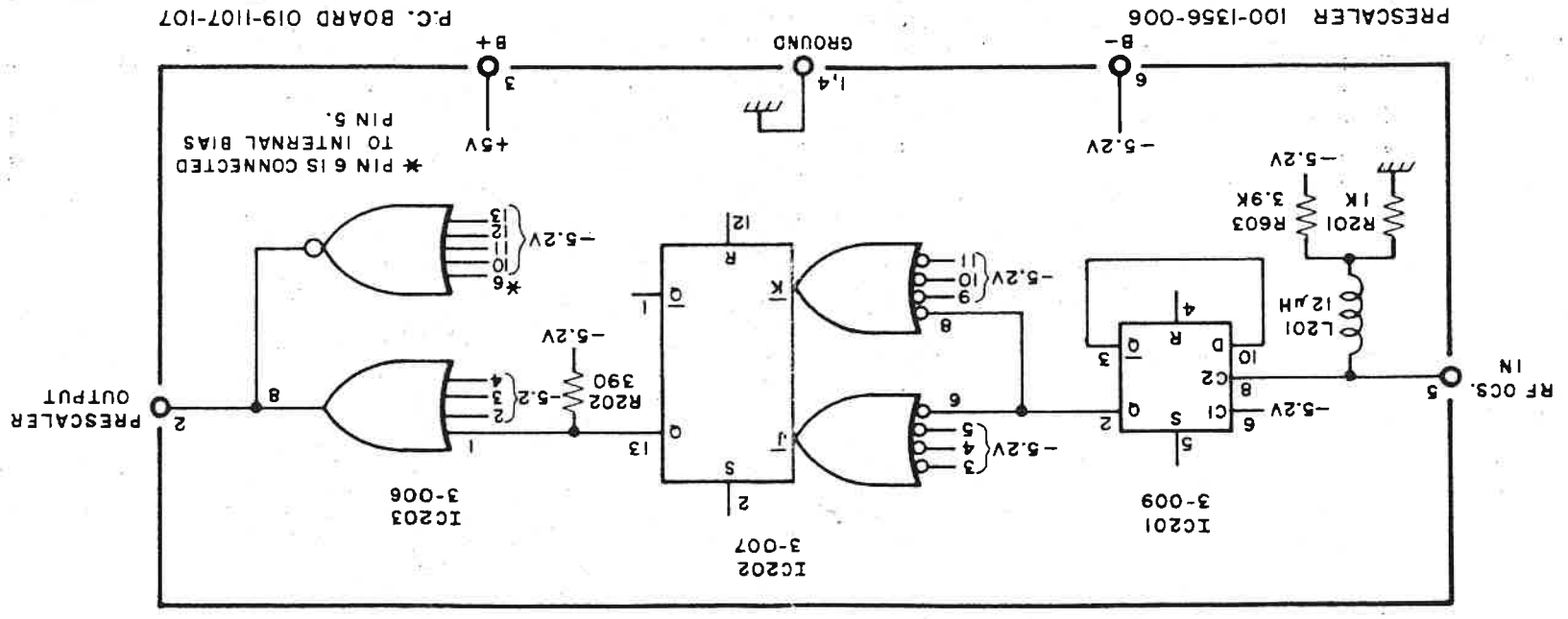
- NOTES
- UNLESS OTHERWISE SPECIFIED: RESISTANCE IN OHMS 10% 1/4 WATT, CAPACITANCE IN MFD'S
 - BYPASS CAPACITORS NOT SHOWN IN DIAGRAM +5V GND, 22pF C703, C704, C705 & C707
 - IC703, IC704 & IC706 VCC PIN 14, GND PIN 7
 - IC705 VCC PIN 4, GND PIN 11
 - IC701 & IC702 VCC PIN 16, GND PIN 8
 - HIGHEST SERIES NUMBERS ARE: IC706, R706, C710, L701, D702 & Q703
 - COMPONENTS DELETED ARE: R704
 - IC706 H.S. P/N 020-1113-015 MAY PHYSICALLY APPEAR ON A SEPARATE BOARD IN UNITS WITH SERIAL NUMBER 654276 OR LOWER



PHASE-FREQUENCY COMPARATOR 100-1356-002 PC BOARD 019-1107-101

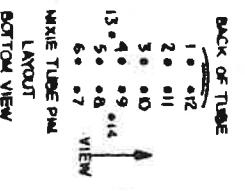
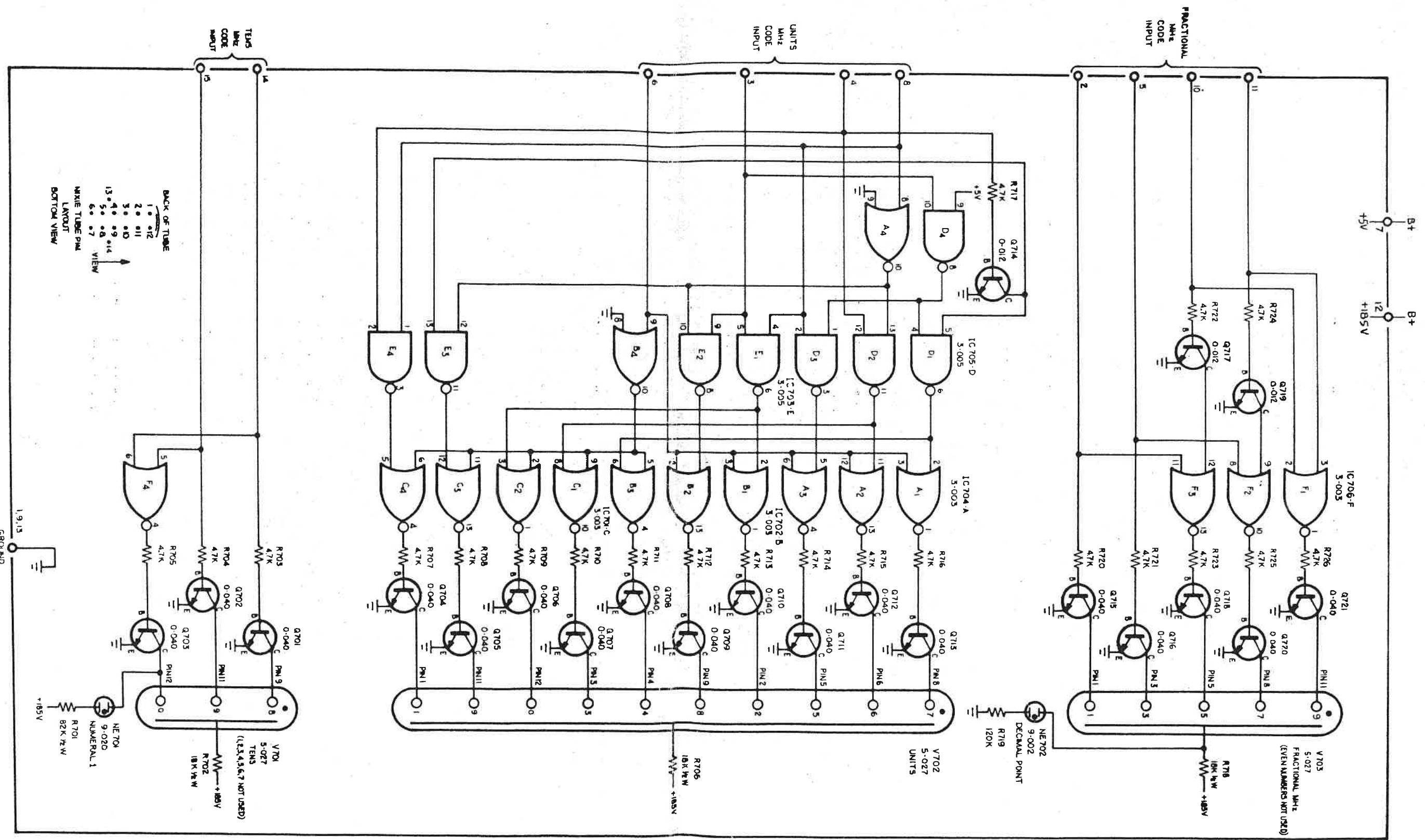
- NOTES:
1. UNLESS OTHERWISE SPECIFIED: RESISTANCE IN OHMS ± 10% ± 0.5% WATT; CAPACITANCE IN PFD'S.
 2. ALL IC # & Q PART NUMBERS ARE SHOWN BY THE LAST FOUR DIGITS OF THEIR TEN DIGIT PART NUMBERS. THE PREFIX FOR BOTH IS 020-111-.
 3. HIGHEST SERIES NUMBERS ARE: IC 204, Q204, Z201, R213, C211.
 4. IC 202, IC 204: VCC PIN 14, GND, PIN 7.
 5. IC 203: VCC PIN 11, GND, PIN 4.
 6. COMPONENTS DELETED: C206, C209.

REVISIONS		
REV	DESCRIPTION	DATE



- NOTES:
1. UNLESS OTHERWISE SPECIFIED; RESISTANCE IN OHMS $\pm 10\%$, 1/4 WATT, CAPACITANCE IN MFD'S.
 2. BYPASS CAPACITORS NOT SHOWN IN CIRCUIT DIAGRAM = $+5V$ — GND., .02MFD., C202; $-5.2V$ — GND., .001MFD., C201.
 3. IC201; VEE PIN 7, GND. PIN 14. IC202; VEE PIN 7, GND. PIN 14. IC203; VEE PIN 7, VCC PIN 9, GND. PIN 14.
 4. ALL IC PART NUMBERS ARE SHOWN BY THE LAST FOUR DIGITS OF THEIR TEN DIGIT PART NUMBER. THE PREFIX IS 020-111
 5. HIGHEST SERIES NUMBERS ARE; IC203, L201, C202, R203.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		TOLERANCES ON DIMENSIONS \pm %		DECIMALS \pm .002		ANGLES \pm °	
DRAFT: PEN		APPROVED FOR PRODUCTION		DATE: 4/7/71		MATERIAL:	
CH.		ENG.		PROD.		SCALE:	
SAMPLE		QUOTE		NO.		SHEET 1 OF 1	
PLOT		REV.		NO.		DATE 5-20-71	
H. H. SCOTT, INC.		MAYNARD, MASS.		PRESCALER CIRCUIT		100-1356-006	

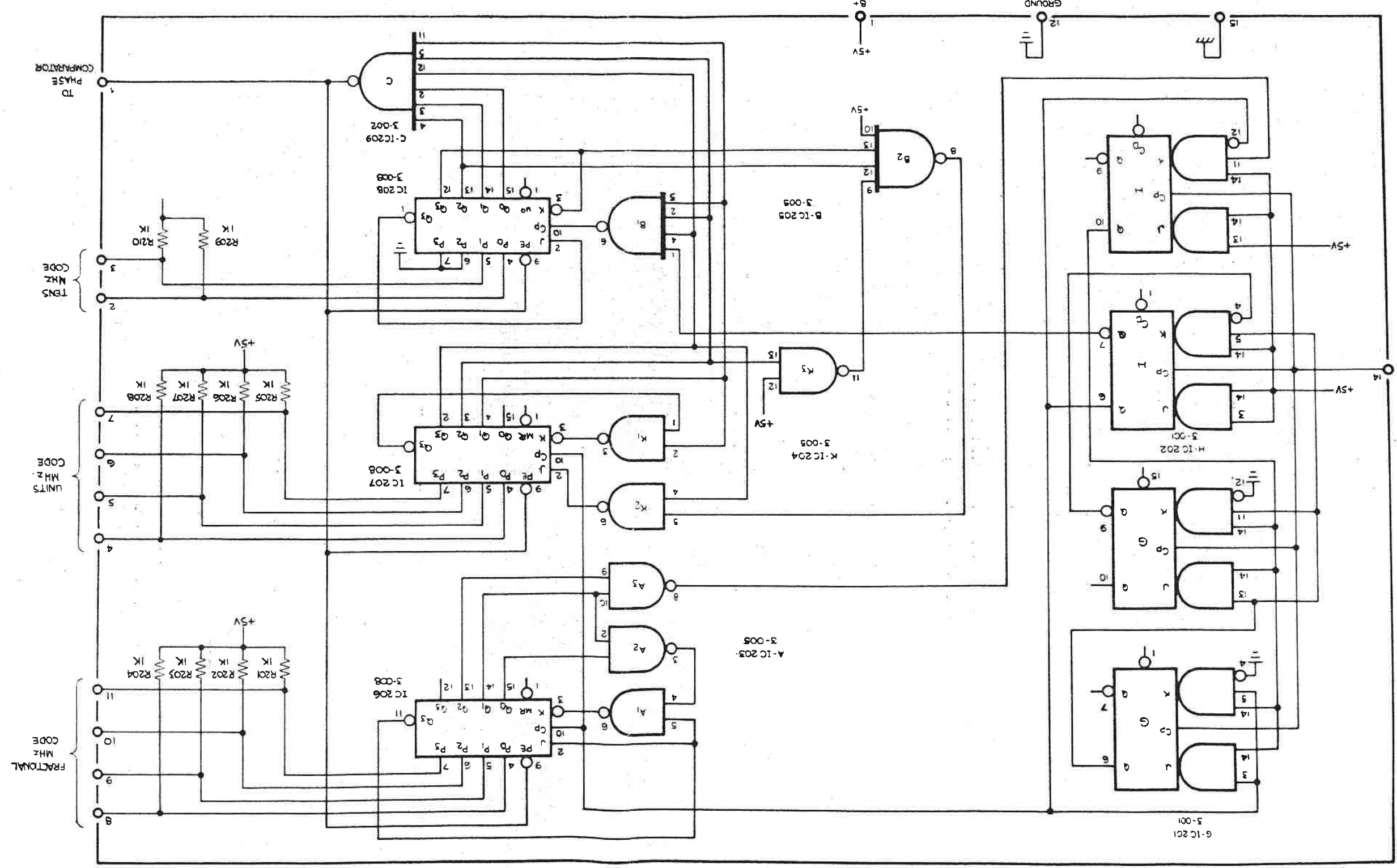


DECODER AND DISPLAY 100-1356-005

NOTES:
 1. UNLESS OTHERWISE SPECIFIED RESISTANCE IN OHMS, 1% TOL, CAPACITANCE IN MFD'S
 2. ALL IC, Q, NE & V PART NUMBERS ARE SHOWN BY THE LAST FOUR DIGITS OF THEIR TEN DIGIT PART NUMBERS.
 PREFIXES ARE: IC 4 Q - 020-111-...; NE - 030-118-...; V - 025-114-...
 3. HIGHEST SERIES NUMBERS ARE: IC706, Q721, V705, NE702, R726.

PC BOARD 019-1107-098

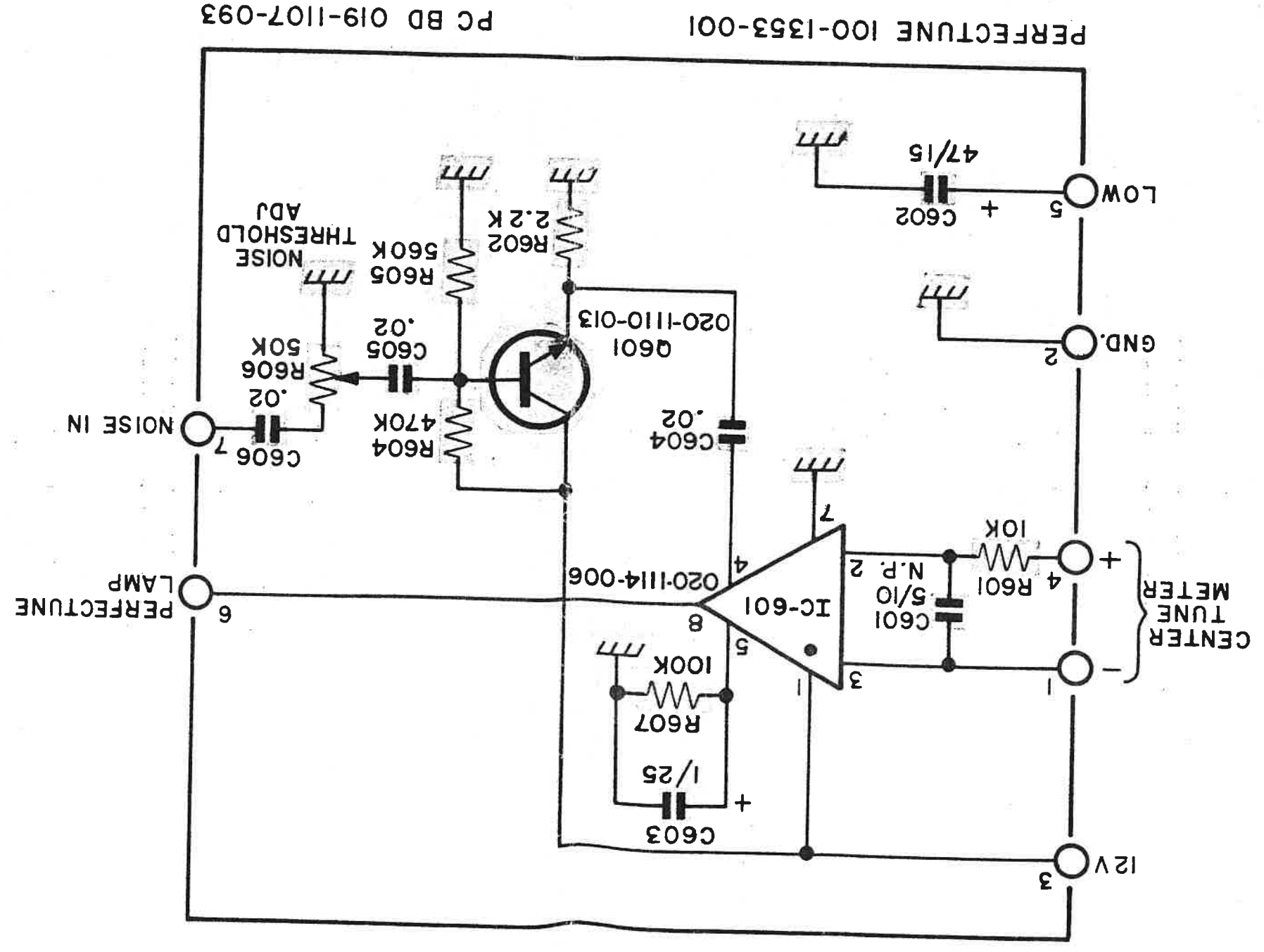
PROGRAMMABLE DIVIDER 100-1356-001



PC BOARD Q19-1107-100

- NOTES
1. UNLESS OTHERWISE SPECIFIED: RESISTANCE IN OHMS ±10%, ¼ WATT; CAPACITANCE IN MFD'S
 2. BYPASS CAPACITORS NOT SHOWN IN CIRCUIT DIAGRAM - +5V - GND, .02 MFD, C201 THRU C205.
 3. IC 201, IC 202, IC 203, IC 204, IC 205, IC 206, IC 207, IC 208: VCC PIN 14, GND PIN 7.
 4. ALL IC PART NUMBERS ARE SHOWN BY THE LAST FOUR DIGITS OF THEIR TEN DIGIT PART NUMBER. THE PREFIX IS 020-111-...
 5. HIGHEST SERIES NUMBERS ARE: IC 209: R210; C 205.

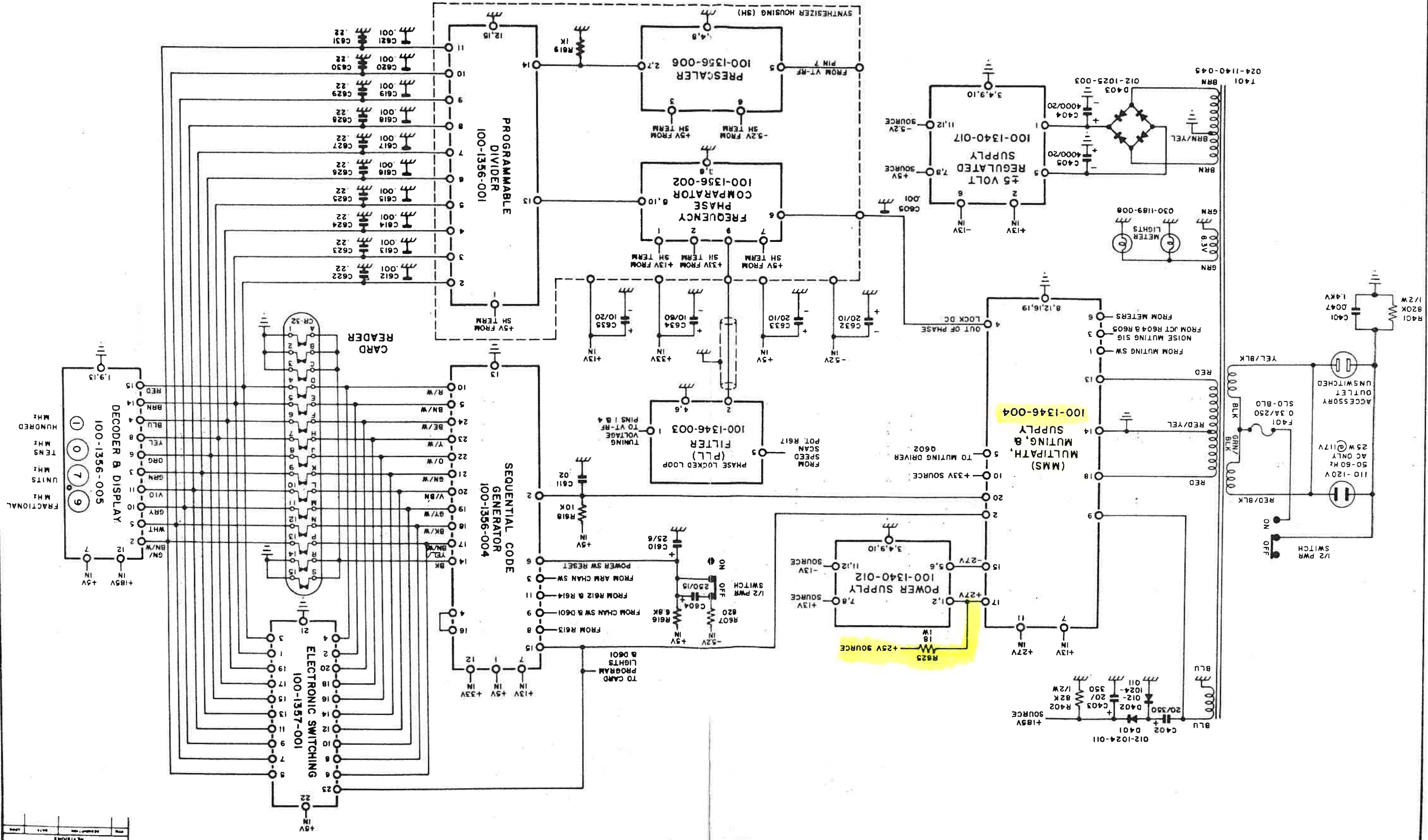
- NOTES:
1. UNLESS OTHERWISE SPECIFIED; RESISTANCE IN OHMS $\pm 10\%$ 1/4 WATT,
 2. HIGHEST SERIES NUMBERS ARE: IC601, Q601, R607, C606.
 3. COMPONENTS DELETED ARE: R603,

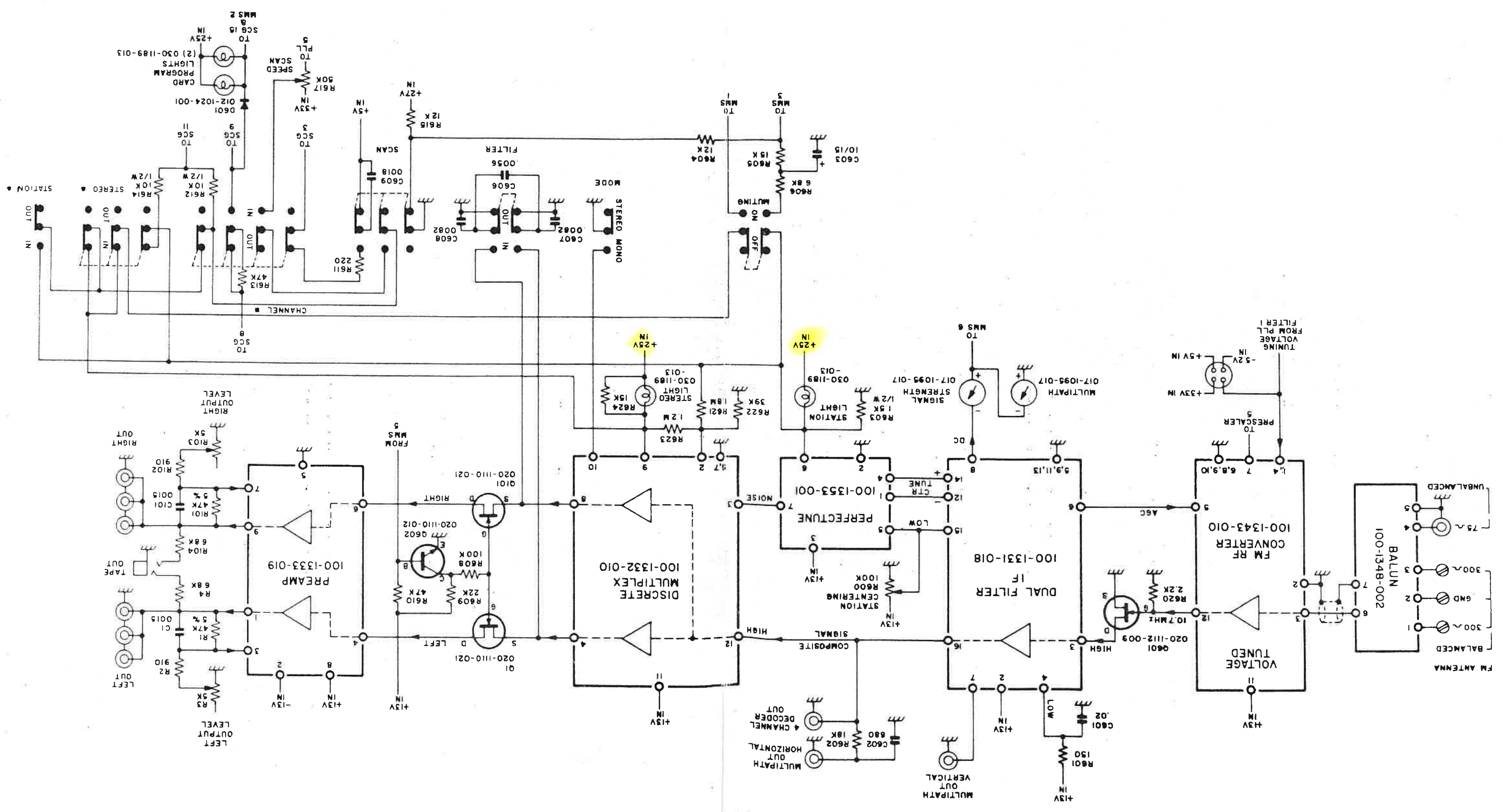


PERFECTUNE 100-1353-001
PC BD 019-1107-093

REV. 0	DWG. NO. 100-1353-001	DATE 4-8-70	SHEET 1 OF 1
H.H. SCOTT, INC. MAYNARD, MASS.		APPROVED FOR PRODUCTION	CH. CC
SIZE B	PILOT	DRAFT. PEN	APPROVED ONLY

REVISIONS		
SYM	DESCRIPTION	DATE





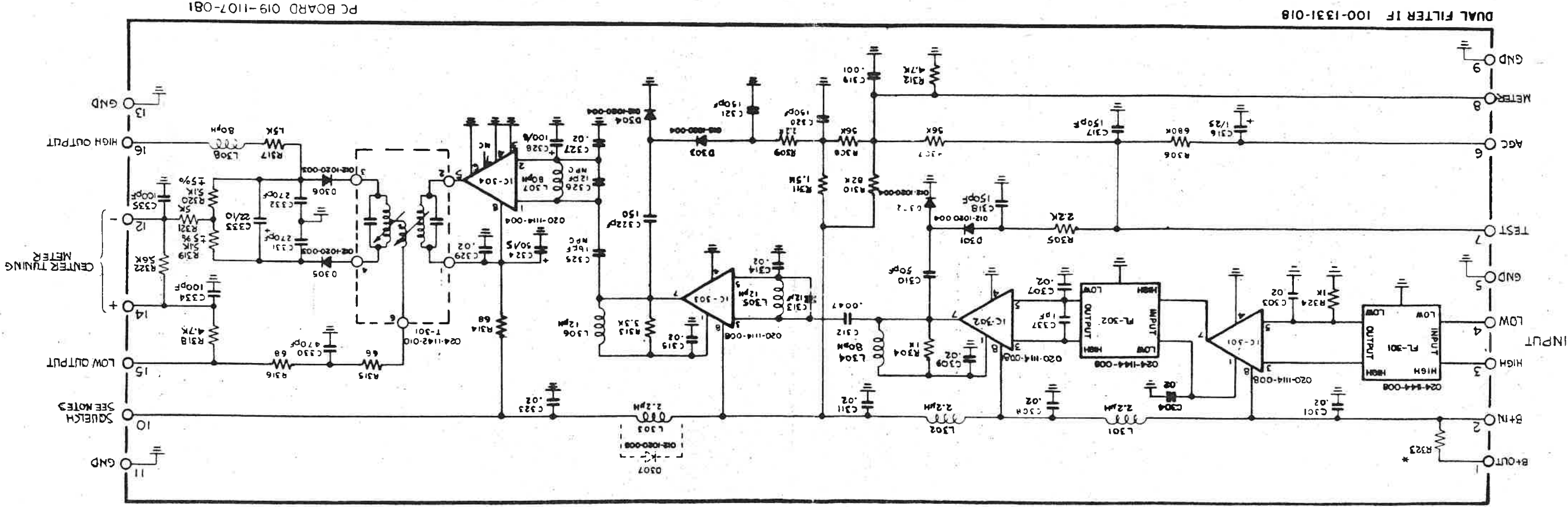
REV	DESCRIPTION	DATE
1	ECD 3659	4-27-71

REVISIONS

CIRCUIT OF 02-114-004 TO BE PRINTED IN THIS AREA WHEN FILTER CRYSTAL CIRCUIT APPEARS IN THE SERVICE MANUAL SEE 02-114-001

CIRCUIT OF 02-114-004 TO BE PRINTED IN THIS AREA WHEN IF CIRCUIT APPEARS IN THE SERVICE MANUAL SEE 02-114-004

CIRCUIT OF 02-114-008 TO BE PRINTED IN THIS AREA WHEN IF CIRCUIT APPEARS IN THE SERVICE MANUAL SEE 02-114-008



PC BOARD 019-1107-081

DUAL FILTER IF 100-1331-018

CIRCUIT OF 0-POLE FILTER TO BE PRINTED IN THIS AREA WHEN IF CIRCUIT APPEARS IN THE SERVICE MANUAL SEE 02-114-008

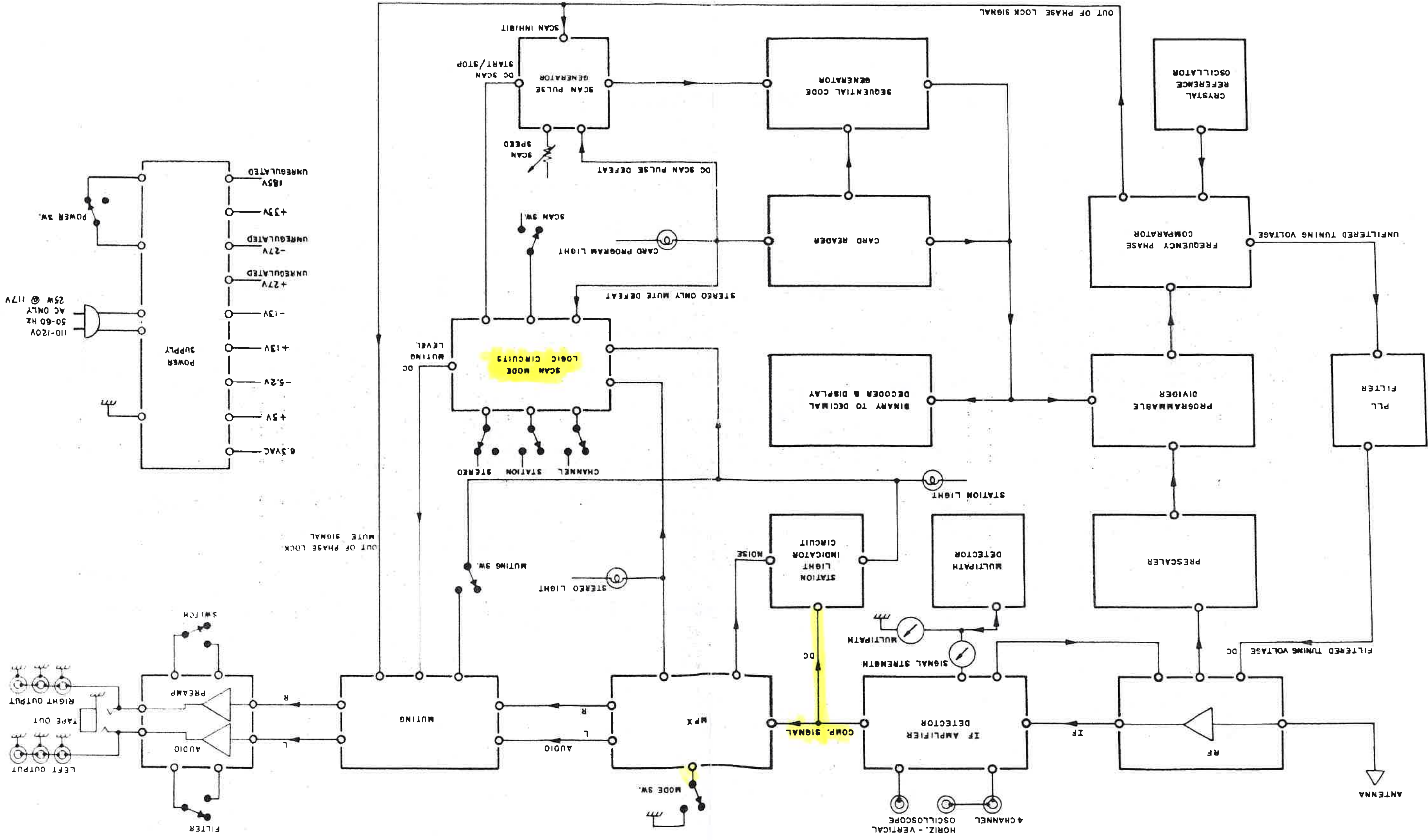
- NOTES
1. UNLESS OTHERWISE SPECIFIED, RESISTANCE IN OHMS $\pm 10\%$ $\frac{1}{4}$ WATT, CAPACITANCE IN MICROFARADS
 2. HIGHEST SERIES: R324, C327, D307, L308, 1C-304, T-301, FL-302
 3. USE D307 IN PLACE OF L303 FOR SQUELCH, PIN 10
 4. USE RESISTOR R323 WHEN SUPPLYING FRONT END FROM B+
 5. COMPONENTS DELETED: R301, R302, R303, R304, R305, R306, C308, C309, C310

REFER TO COMPONENT LABEL 019-1107-081/A

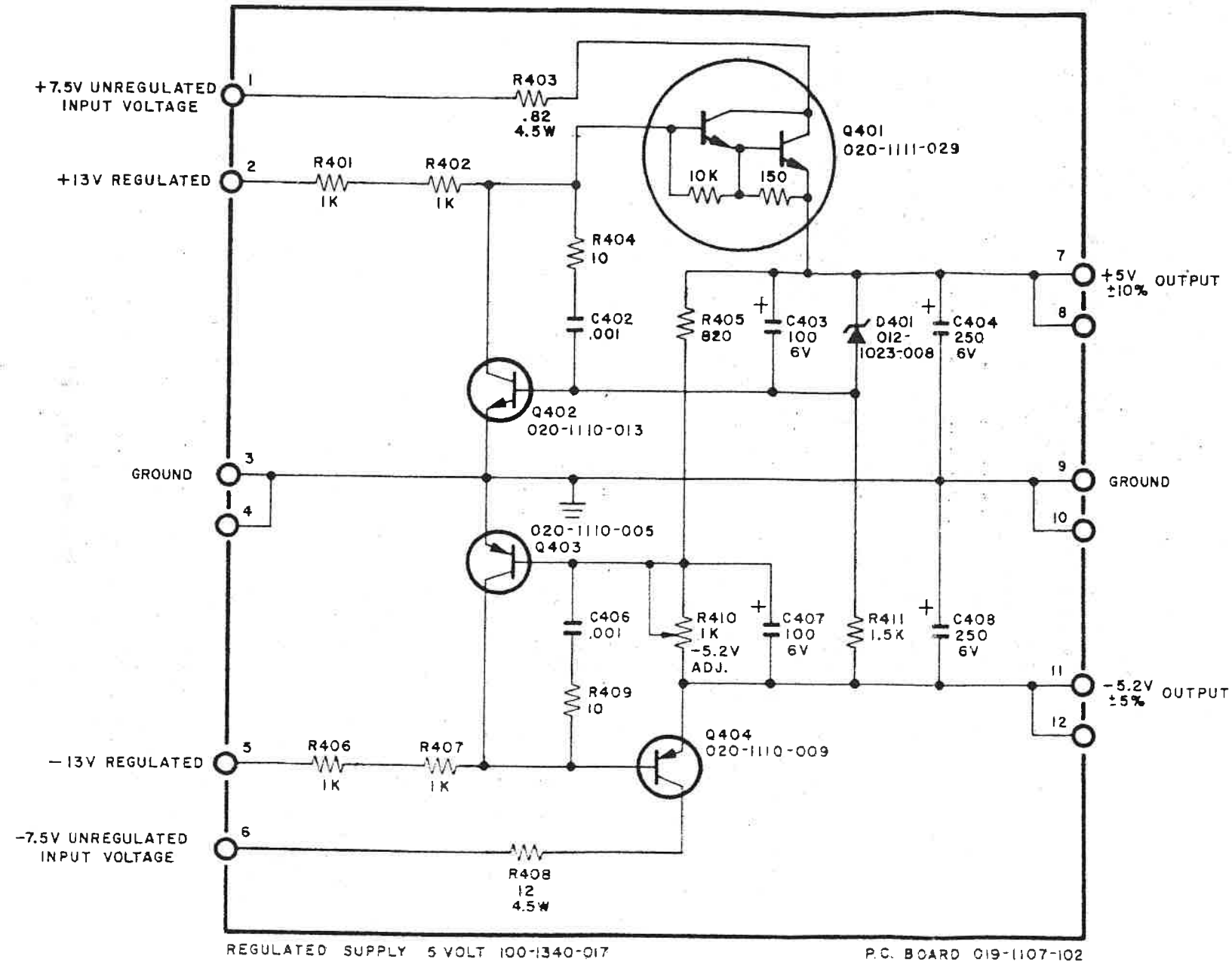
H.H. SCOTT INC

DUAL FILTER IF

100-1331-018 REV 1



SYM	DESCRIPTION	DATE	BY
1	ECO 3659 R	6-1-71	
2	ECO 3726 R	7-3-71	



REGULATED SUPPLY 5 VOLT 100-1340-017

P.C. BOARD 019-1107-102

NOTES:

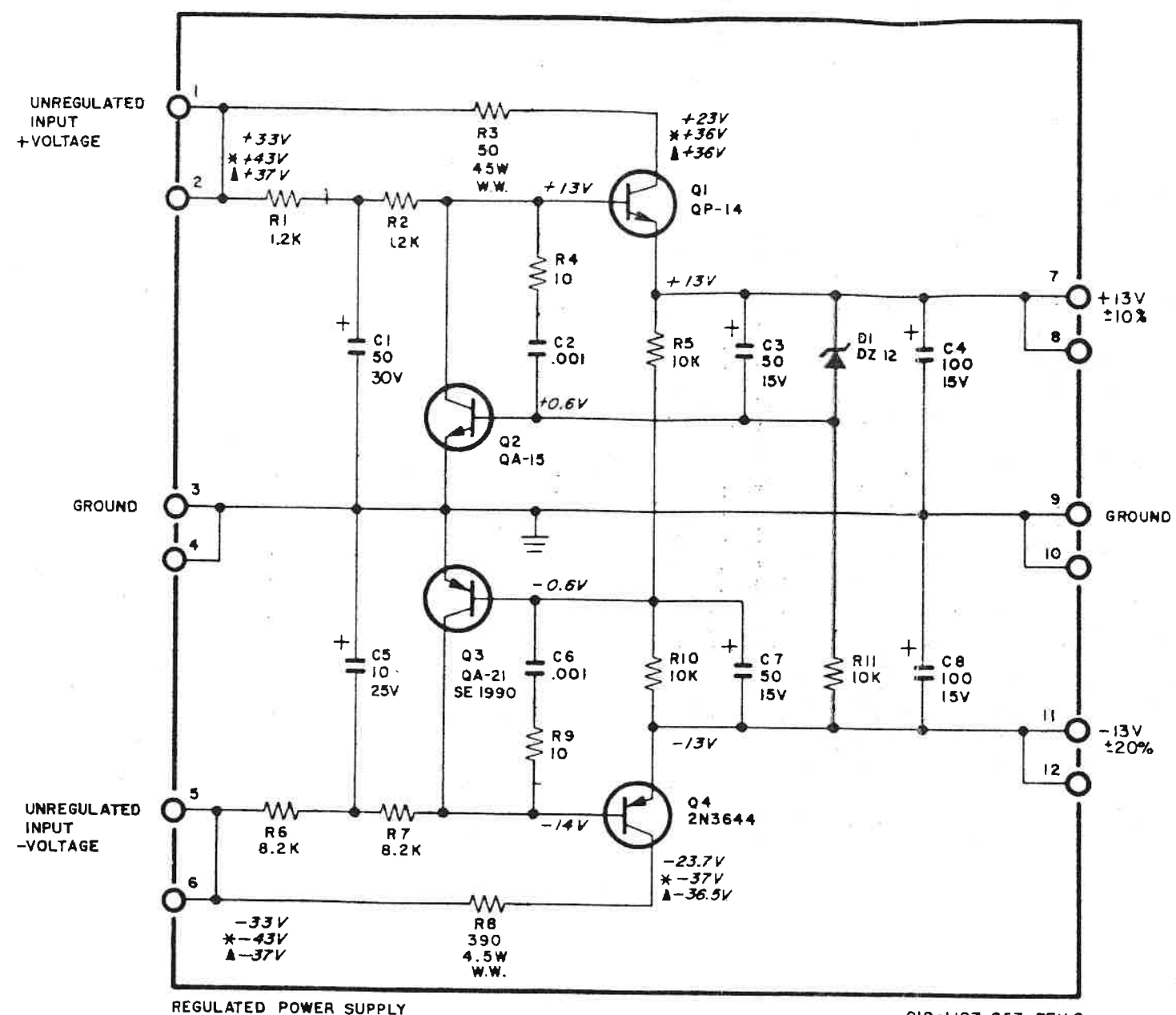
1. UNLESS OTHERWISE SPECIFIED: ALL RESISTANCE IN OHMS $\pm 10\%$, CAPACITANCE IN MFD'S, RESISTORS 1/4 WATT, AND VOLTS ARE DC $\pm 5\%$ MEASURED WITH 20K Ω /VOLT V.O.M

2. HIGHEST SERIES NUMBERS R411, C408, D401, Q404

3. COMPONENTS DELETED ARE, C401, C405

H.H. SCOTT, INC. MAYNARD, MASS.	
REGULATED SUPPLY 5VOLT	
SIZE C	DRWG. NO. 100-1340-017
2	
DATE 5-13-71	

1	ECO 30401
2	ECO 3386
3	ECO 3639



REGULATED POWER SUPPLY

019-1107-057 REV.0

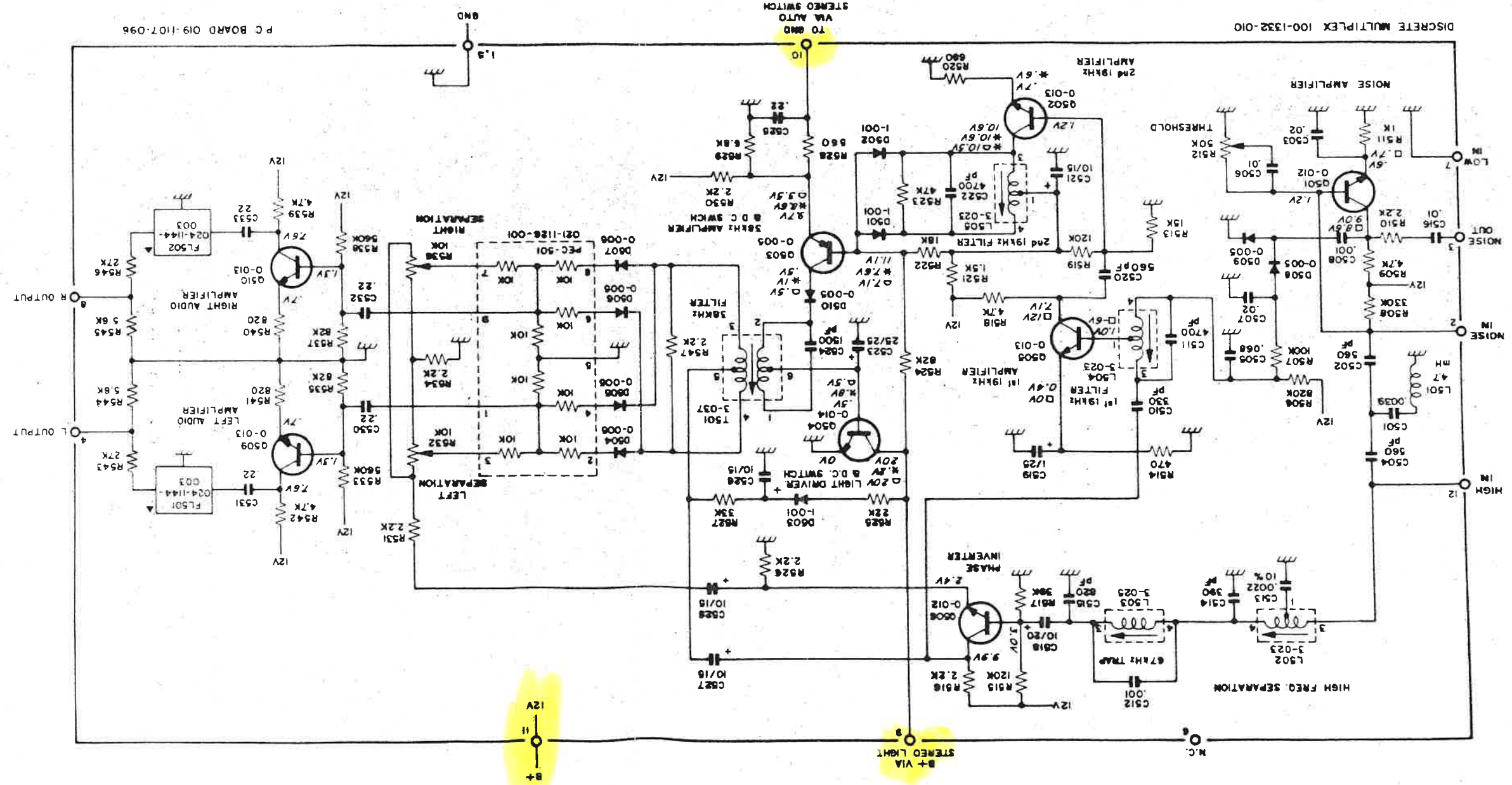
- NOTES:
- UNLESS OTHERWISE SPECIFIED: ALL RESISTANCE IN OHMS ±10%, CAPACITANCE IN MFD'S, RESISTORS 1/4 WATT, AND VOLTS ARE D.C. ±15% MEASURED WITH 20KΩ/VOLT V.O.M.
 - HIGHEST SERIES NUMBERS: R11, C8, D1, Q4
 - UNREGULATED INPUT VOLTAGE RANGE ±(25V TO 44V)
 - * INDICATES THE ONLY VOLTAGES WHICH CHANGE WITH 43V INPUT, (387).
 - ▲ INDICATES THE ONLY VOLTAGES WHICH CHANGE WITH 37V INPUT, (499).

H.H. SCOTT, INC.
MAYNARD, MASS.

REGULATED POWER SUPPLY

SIZE C	DWG. NO. 100-1340-012	REV 3
SHEET 1 OF 1		DATE 10-29-68

1	ECC 169A	1
2	ECC 375	1
3	ECC 5846	1
4	ECC 5846	1



P C BOARD 019-1107-098

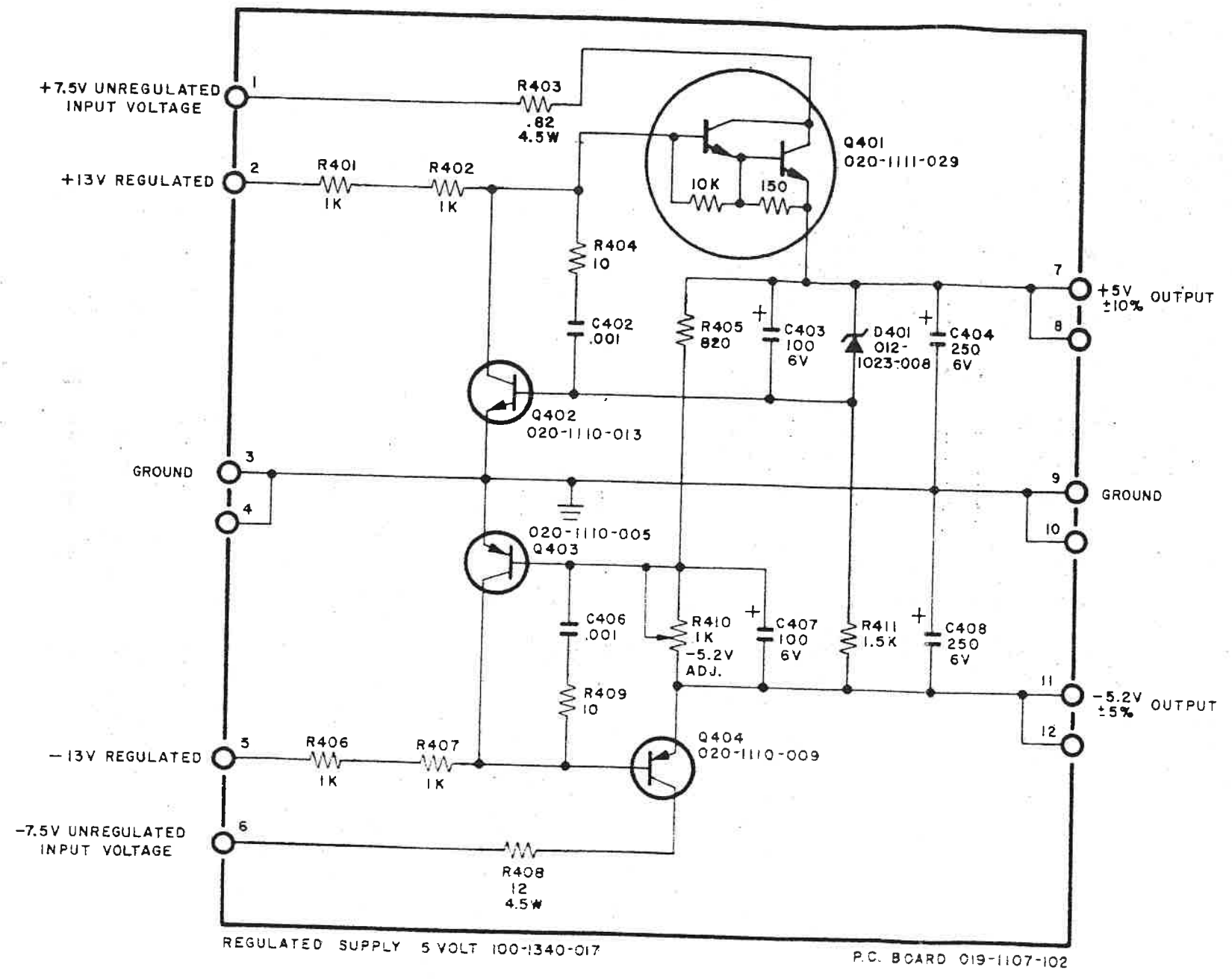
DISCRETE MULTIPLEX 100-1332-010

- NOTES
- 1 UNLESS OTHERWISE SPECIFIED, RESISTANCE IN OHMS $\pm 10\%$, 1/4 WATT, CAPACITANCE IN MFD'S.
 - 2 ALL D.C. VOLTAGES ($\pm 15\%$) MEASURED WITH RESPECT TO CHASSIS GROUND, USING A 1 M Ω AT 117VAC LINE, AND FM MONO SIGNAL FED INTO THE DEMODULATOR, AUTO-STEREO SWITCH OPEN.
 - 3 FM STEREO SIGNAL FED TO DEMODULATOR.
 - 4 OFF-STEERATION NOISE FED TO DEMODULATOR.
 - 5 AUTO-STEREO SWITCH OPEN.

CIRCUIT OF 024-1144-003 TO BE PRINTED IN THIS AREA WHEN MULTIPLEX CIRCUIT APPEARS IN THE SERVICE MANUAL.
SEE 024-1144-003

3. A 024-1144-007 FILTER (FL503) MAY BE SUBSTITUTED FOR THE TWO 024-1144-003 FILTERS (FL501, FL502).
- 4 ALL L.T.D. AND Q NUMBERS ARE SHOWN BY THE LAST FOUR NUMBERS OF THEIR TEN DEBIT PART NUMBER PREFIX FOR EACH AS FOLLOWS: LBT ARE 0M-1023-...; D IS 012-1021-...; Q IS 020-1110-...
- 5 HIGHEST SERIES NUMBERS ARE: R547, C534, D510, G510, L508, T501, FL502, PEC-501
- 6 COMPONENT NUMBERS DELETED/003: C509, C517, R501, R502, R503, R504, R505, Q507, Q508 - /101, C525, C534
7. R547 TO BE SOLDERED TO BOTTOM SIDE OF BOARD BETWEEN PIN 3 AND PIN 4 OF T501 AS INDICATED.
8. C534 TO BE SOLDERED TO BOTTOM SIDE OF BOARD ACROSS R520 AS INDICATED.

SYM	DESCRIPTION	DATE
1	ECO 3959A	6-1-71
2	ECO 3726A	7-3-71



NOTES:

- UNLESS OTHERWISE SPECIFIED: ALL RESISTANCE IN OHMS $\pm 10\%$, CAPACITANCE IN MFD'S, RESISTORS 1/4 WATT, AND VOLTS ARE DC $\pm 5\%$ MEASURED WITH 20K Ω /VOLT V.O.M
- HIGHEST SERIES NUMBERS: R411, C408, D401, Q404
- COMPONENTS DELETED ARE: C401, C405

H.H. SCOTT, INC.
MAYNARD, MASS.

REGULATED SUPPLY 5VOLT

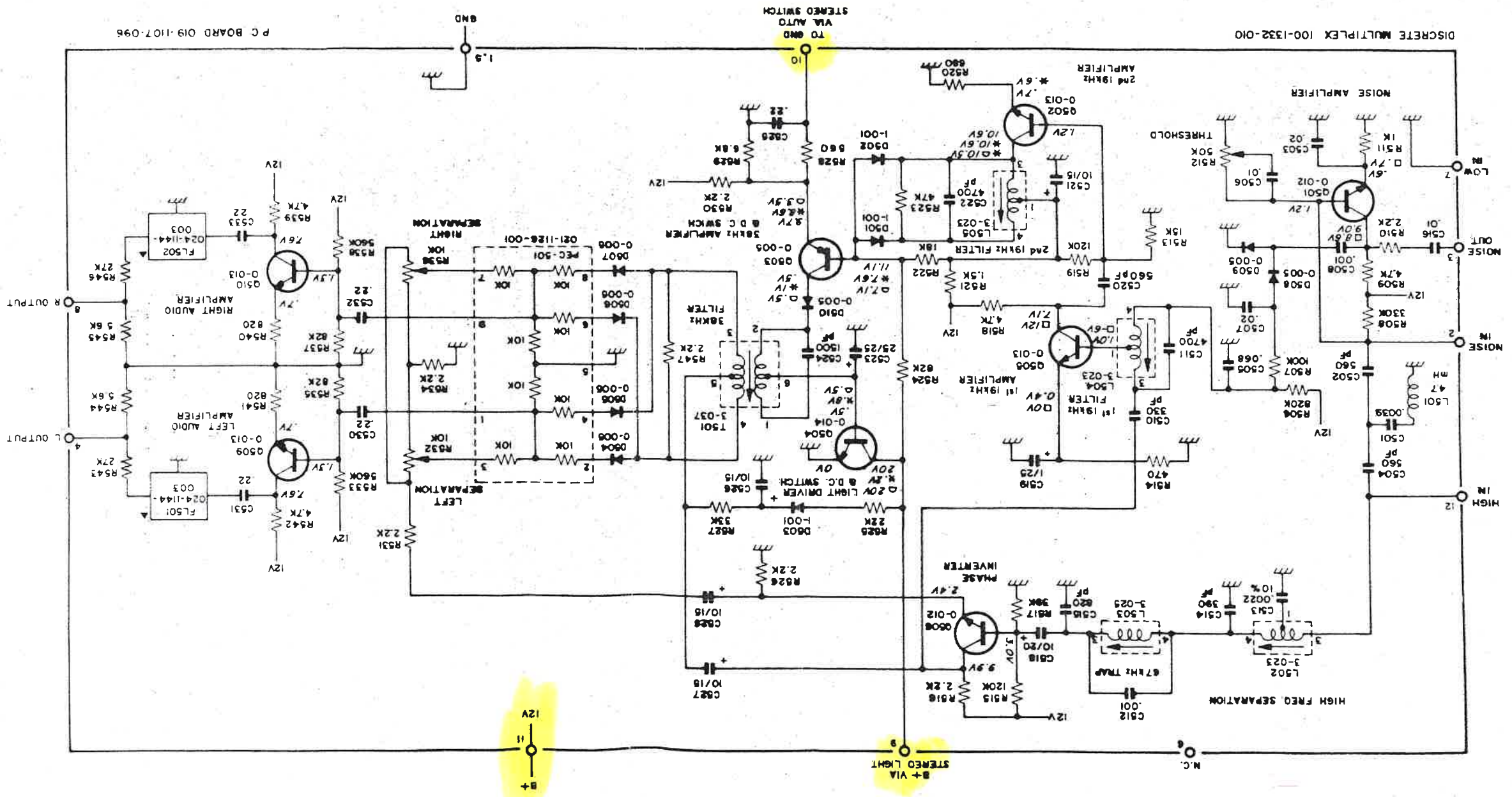
SIZE C DIM. NO. 100-1340-017

DATE 5-13-71

REFER TO COMPONENT LABEL OR DRAWING

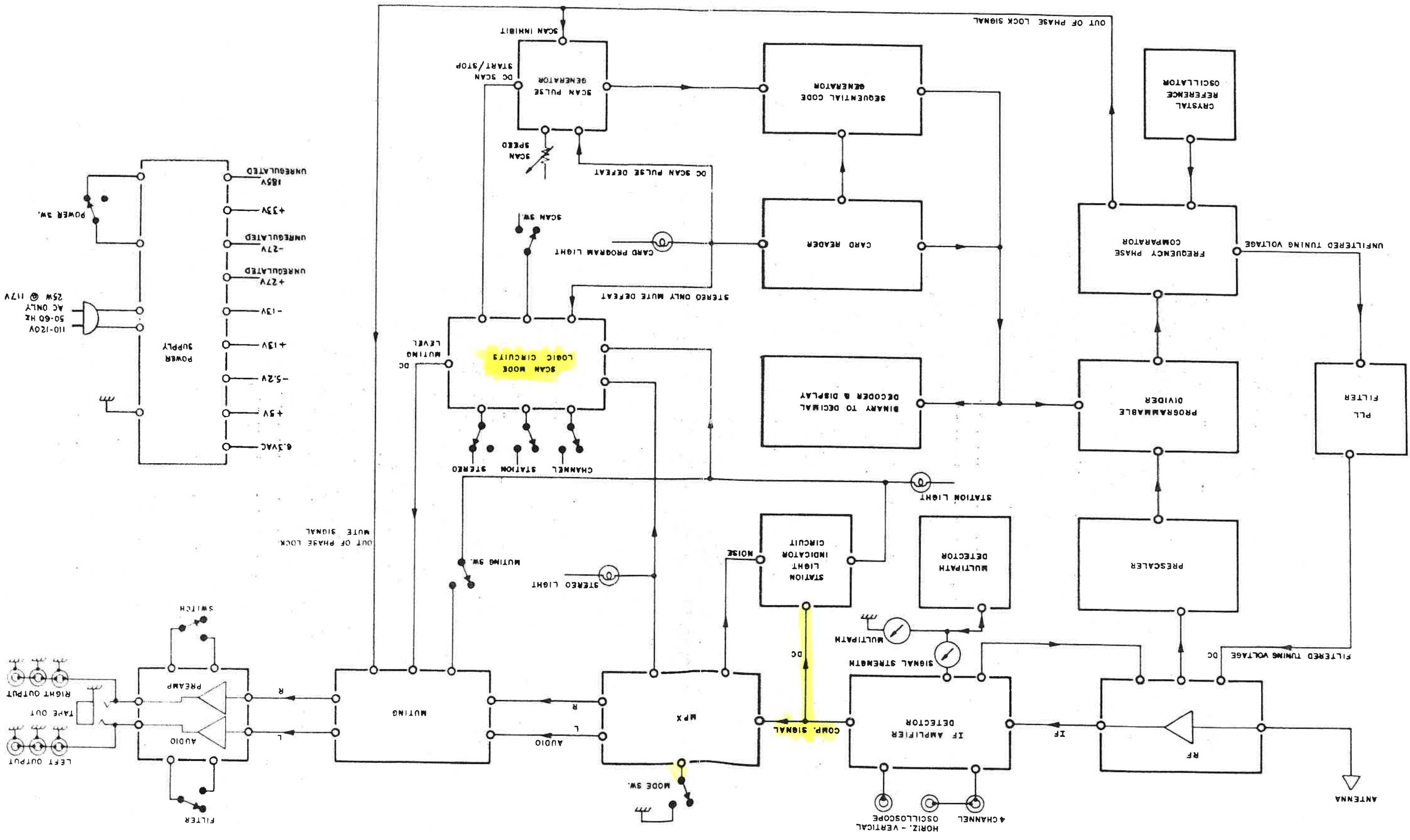
THIS AREA UNDER MULTIPLEX CIRCUIT APPEARS IN THE SERVICE MANUAL
 SEE 024-1144-002

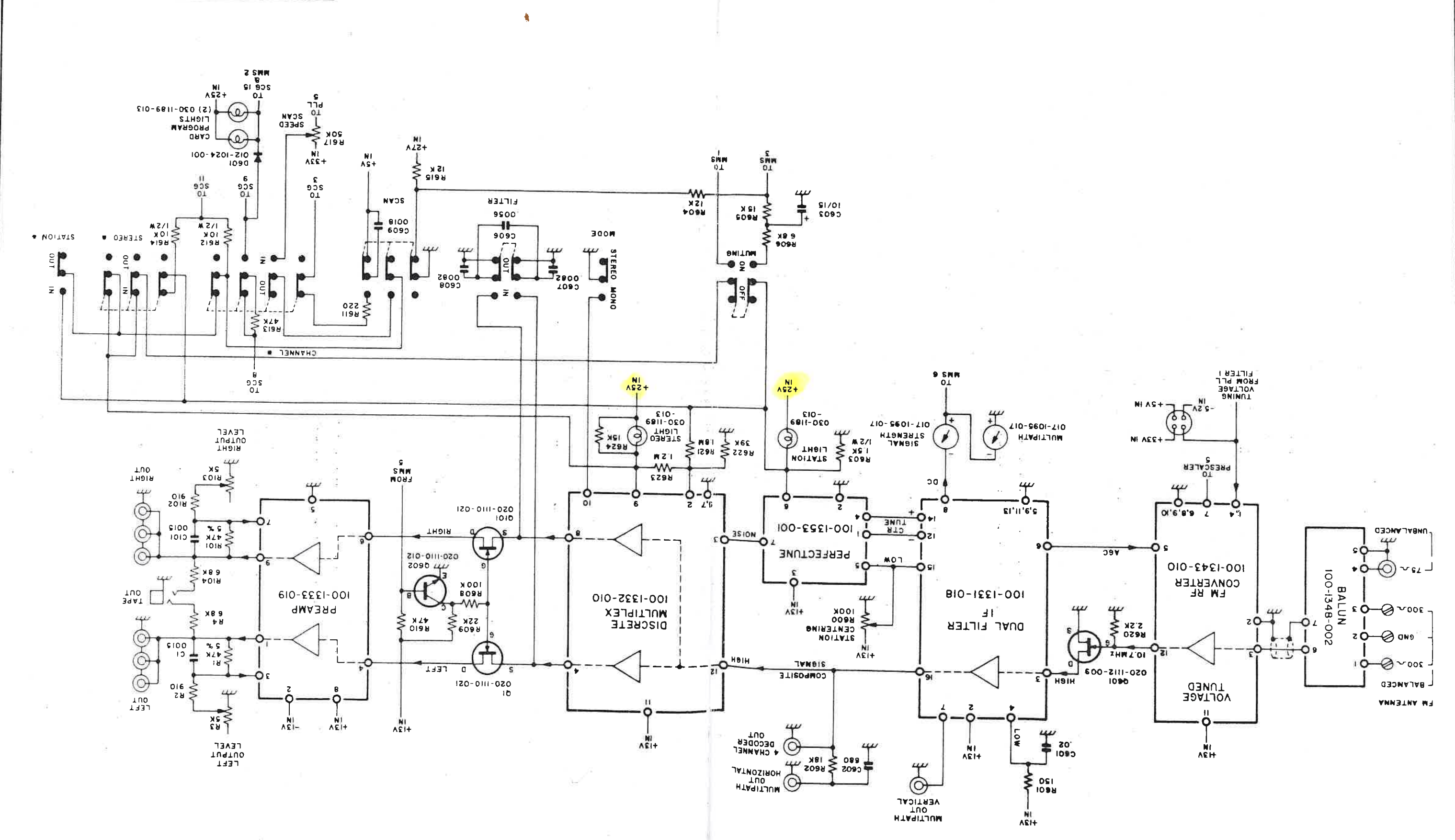
- NOTES
- UNLESS OTHERWISE SPECIFIED, RESISTANCE IN OHMS $\pm 10\%$ IN WATT, CAPACITANCE IN MFD'S
 - ALL D.C. VOLTAGES (10% TOLERANCE) MEASURED WITH RESPECT TO CHASSIS GROUND, USING 17M
 - AT 117VAC LINE, AND FM MONO SIGNAL FED INTO THE DEMODULATOR, AUTO-STEREO SWITCH OPEN.
 - *FM STEREO SIGNAL FED TO DEMODULATOR
 - D OFF-STATION NOISE FED TO DEMODULATOR
 - O AUTO-STEREO SWITCH OPEN.
 - A 024-1144-007 FILTER (FL503) MAY BE SUBSTITUTED FOR THE TWO 024-1144-003 FILTERS (FL-501, FL-502)
 - FOR EACH AS FOLLOWS: LAST ARE 0M-1093-... D IS 020-1110-... D IS 020-1110-...
 - HIGHEST SERIES NUMBERS ARE: R547, C534, D510, D510, L506, L501, FL502, REC-501
 - COMPONENT NUMBERS DELETED/D09: C509, C517, R501, R502, R503, R504, R505, R506, R507, R508 - /O10, C525, C534
 - R547 TO BE SOLDERED TO BOTTOM SIDE OF BOARD BETWEEN PINS 3 AND PIN 4 OF T501 AS INDICATED.
 - C534 TO BE SOLDERED TO BOTTOM SIDE OF BOARD ACROSS R520 AS INDICATED.



PC BOARD 019-1107-096

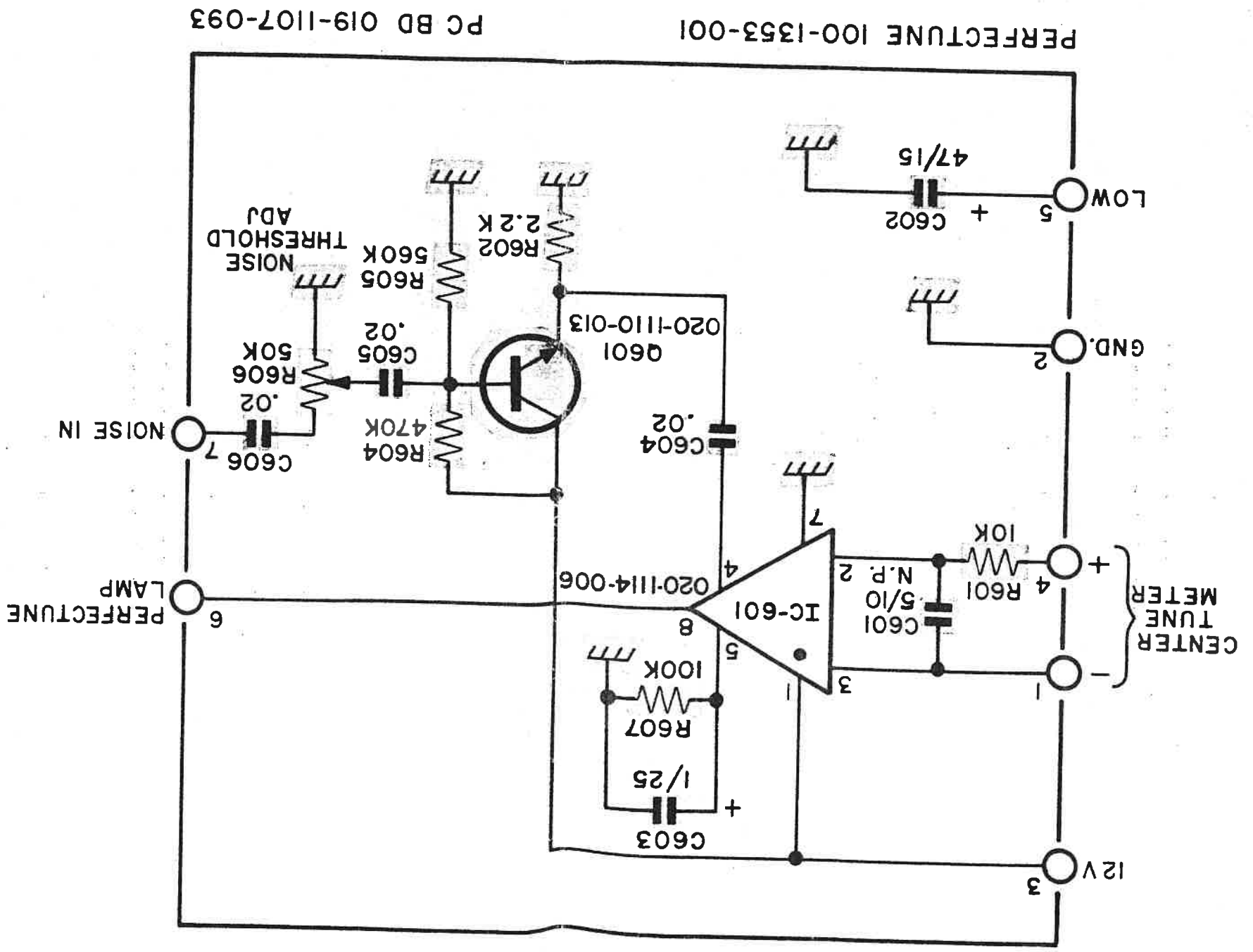
REV	DATE	BY	CHKD	DESCRIPTION
1	11-17-70	J. M. WILSON	J. M. WILSON	ISSUED FOR PRODUCTION
2	11-17-70	J. M. WILSON	J. M. WILSON	REVISION
3	11-17-70	J. M. WILSON	J. M. WILSON	REVISION
4	11-17-70	J. M. WILSON	J. M. WILSON	REVISION



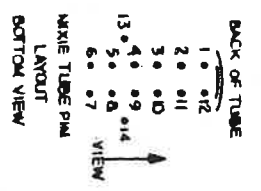
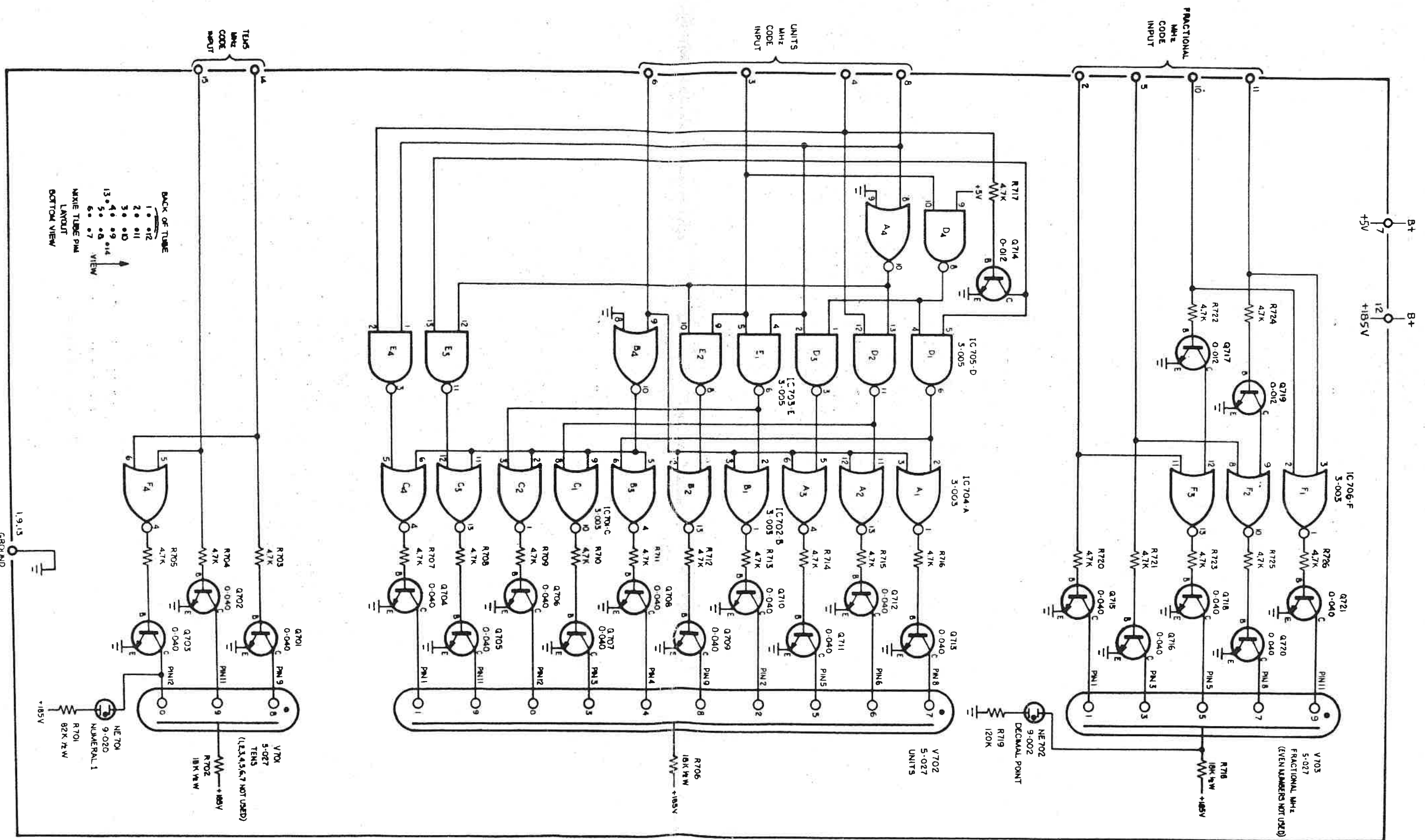


REV. 0	DWG. NO. 100-1353-001	DATE 4-8-70	SHEET 1 OF 1
PERFECTUNE CIRCUIT		APPROVED FOR	CH. <i>llc</i>
H.H. SCOTT, INC. WAYNARD, MASS.		← APPROVED ONLY	DRAFT. PEN
APPROVED FOR PRODUCTION		APPROVED	5/29/71

NOTES:
 1. UNLESS OTHERWISE SPECIFIED; RESISTANCE IN OHMS ±10% 1/4 WATT,
 CAPACITANCE IN MFD'S.
 2. HIGHEST SERIES NUMBERS ARE: IC601, 601, R607, C606.
 3. COMPONENTS DELETED ARE: R603,



REV.	DATE	DESCRIPTION	BY	APP.

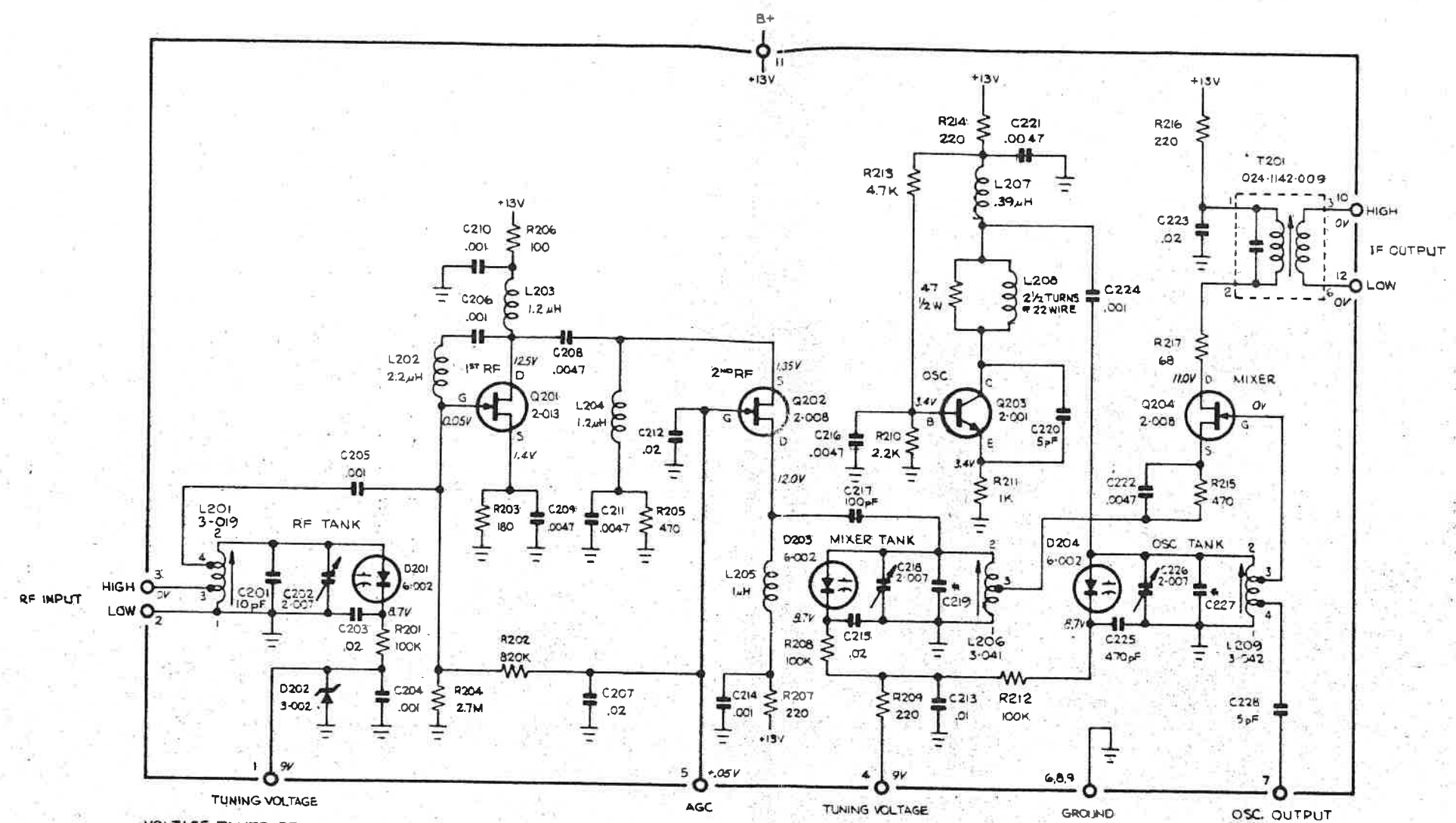


DECODER AND DISPLAY 100-1356-005

NOTES:

- 1 UNLESS OTHERWISE SPECIFIED RESISTANCE IN OHMS 50% 1/4WATT, CAPACITANCE IN MICROFARADS
- 2 ALL IC Q, NE V PART NUMBERS ARE SHOWN BY THE LAST FOUR DIGITS OF THEIR TEN DIGIT PART NUMBERS. PREFIXES ARE: IC 0-020-111-...; NE-030-116-...; V-025-114-...
- 3 HIGHEST SERIES NUMBERS ARE: IC706, 0721, V703, NE702, R726.

PC BOARD 019-1107-098

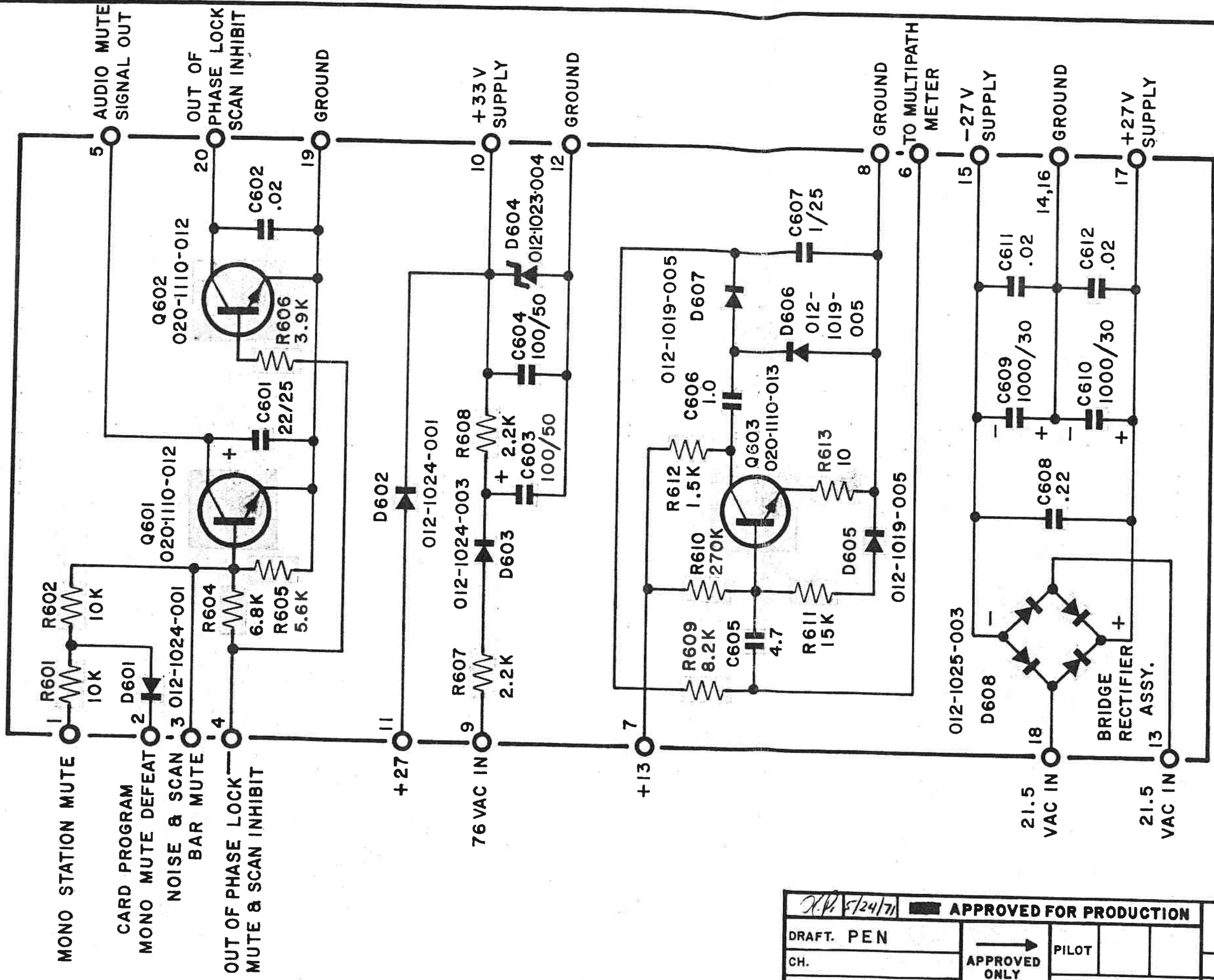


VOLTAGE TUNED RF MODULE 100-1343-010
PC BOARD 019-1107-095

- NOTES:
1. UNLESS OTHERWISE SPECIFIED; RESISTANCE IN OHMS ±10% 1/4 WATT, CAPACITANCE IN MFD'S.
 2. ALL DC VOLTAGES (±15%) MEASURED WITH RESPECT TO CHASSIS GROUND, USING V.T.V.M. AT 117V AC LINE, AND UNIT TUNED TO 107.9, NO SIGNAL.
 3. PIN 1 ON L201, L206 & L209 IS START OF WINDING.
 4. HIGHEST SERIES NUMBERS ARE: R217, C228, D204, Q204, L209, T201.

⊛ USED SELECTIVELY.

2/14/71		APPROVED FOR PRODUCTION		R. H. S. CO. INC.	
DRAFT	DATE	APPROVED	DATE	VOLTAGE TUNED RF MIXER CIRCUIT	
1		100	7-19-71	100-1343-010	



MULTIPATH-MUTING-SUPPLY
100-1346-004

PC BOARD 019-1107-105

REVISIONS			
SYM	DESCRIPTION	DATE	APPR.
1	ECO 3659 R	6-1-71	J.P.

J.P. 5/24/71 **APPROVED FOR PRODUCTION**

DRAFT. PEN	APPROVED ONLY FOR	PILOT	
CH.		DATE 5-4-71	
SHEET 1 OF 1			

H.H. SCOTT, INC.
MAYNARD, MASS.

MULTIPATH-MUTING-SUPPLY

SIZE **B** DWG. NO. **100-1346-004** REV. **1**

