

- IC1, 3, 10, 11 = 7493
- IC2 = 745387
- IC4 = 7486
- IC5 = 7432
- IC6 = 74157
- IC7 = 7475
- IC8 = 7416
- IC9 = 555
- IC12 = 7805
- IC13 = 7400

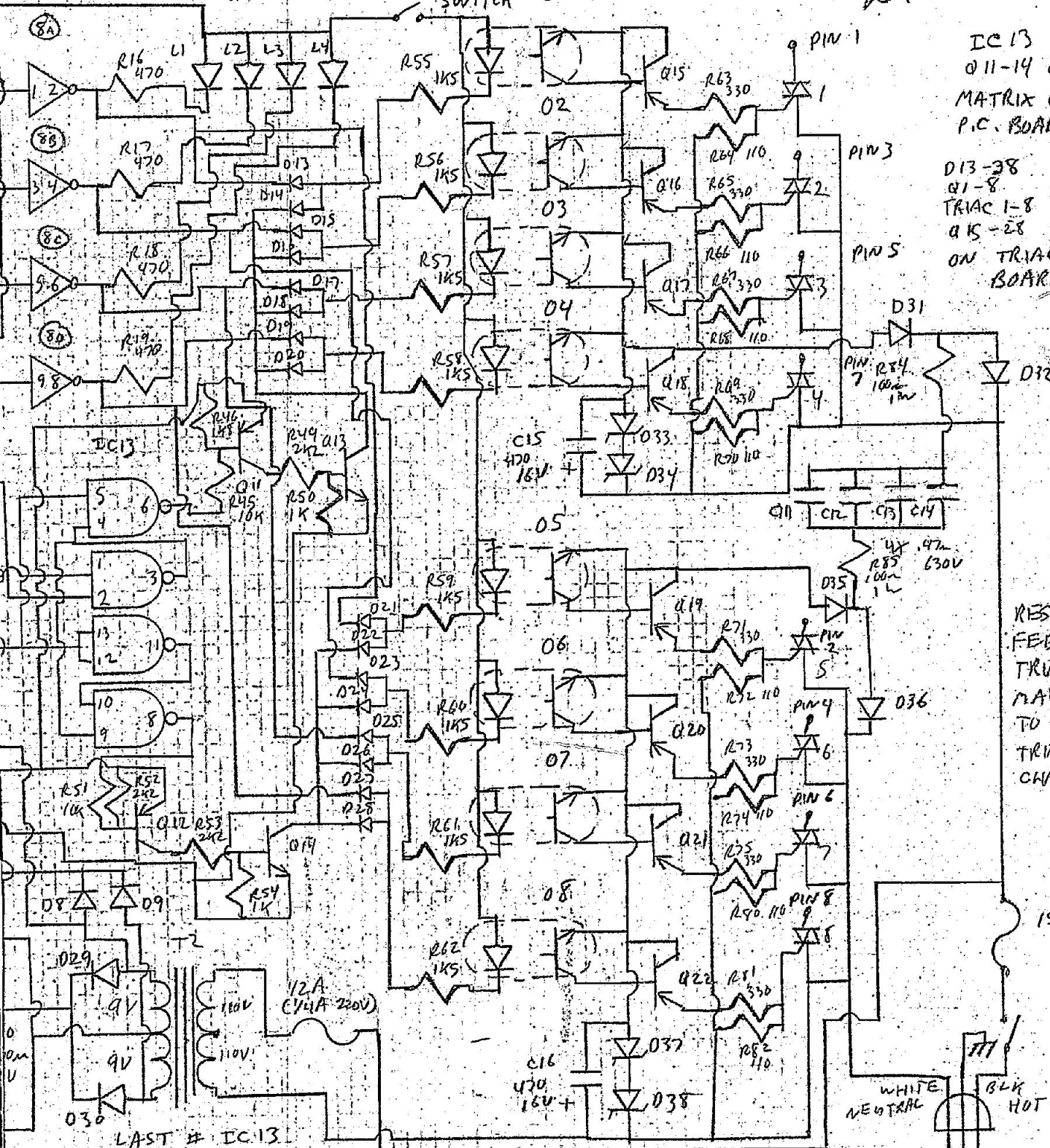
- Q1 = 2N404
- Q2, 3, 4, 5, 6, 7, 8 = 2N3904
- Q9, 10, 13, 14 = 2N3904
- Q11, 12 = 2N404
- Q15-22 = 2N404 OR 2N3906
- Q1-28 = 1N914
- D29-32, 35-36 = 1N4001
- D33-34, 37-38 = 43V 1WATT
- L1-4 = TIL220 RED LED
- L5-7 = TIL224 YELLOW LED
- O1-8 = TIL111 OR 1L-1 OPTO COUPLER
- E1 = 20:1 TURNS RATIO
- T2 = 2 X 8.5V 1A XFORM (USE 9-0-9 SEC)

TRIACS =  
 1T48 = 8AMP 400V HUTSON TRIAC  
 = USE TIC 2460 OR SC142  
 TEXAS

R3A --- 220 VOLT FOR

SOUND + LIGHTSHOW AG  
 BASEL SWITZERLAND  
 MAR 17, 1978  
 D. A. [Signature]

LIGHTS ON SWITCH 01



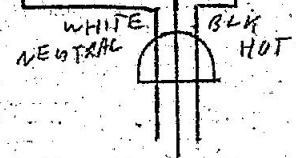
IC13  
 Q11-14 ON  
 MATRIX CONTROL  
 P.C. BOARD  
 D13-38  
 Q1-8  
 TRIAC 1-8  
 Q15-28  
 ON TRIAC  
 BOARDS.

RESISTOR VALUE  
 FEEDING  
 TRACS  
 MAY VARY  
 TO INDIVIDUAL  
 TRIAC  
 CHARACTERISTICS.

- LAST # IC13  
 D38  
 Q22  
 R85  
 C18  
 L7  
 O8  
 TRIAC 8

- IC1,3 = PROM ADDRESS  
 IC2 = PROM  
 IC4 = INVERT  
 IC5 = SHIMMER  
 IC6 = REVERSE/DIM  
 IC7 = ZERO CROSSING

- IC8 = DRIVER  
 IC9 = CLOCK  
 IC10,11 = AUTOMATIC EFFECT CHANGE  
 IC12 = REGULATOR  
 IC13 = MATRIX CONTROL



(18)

R7- IDENTICAL TO R3A BUT Q2, IC1,  
IC 10 AND IC 11 OMITTED.

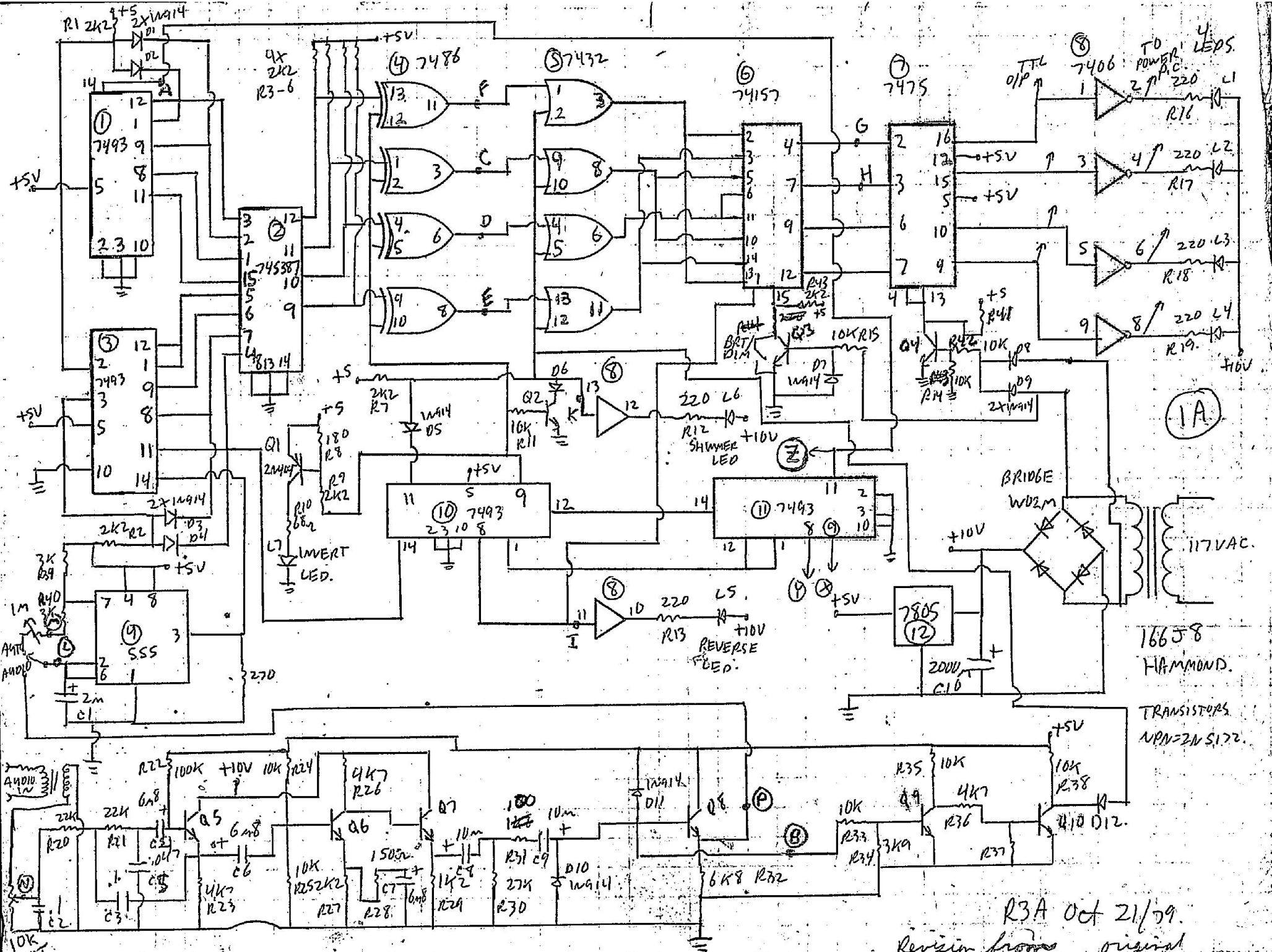
PINS 1, 2, 3, 9 & 15 OF IC 2 TO GO TO 4  
OUTPUT LINES ON A THUMB WHEEL  
SWITCH.

PINS 8, 9 & 11 FROM WHERE IC 10 WAS REMOVED  
TO GO TO 3 SPST SWITCHES.

Also remove L5, L6 & L7  
Q1

R8, R9, R10, R11, R12, R13  
P5, P6.

IC 8 may be replaced by 4 transistors  
and 4 resistors



1A

16658  
HAMMOND.

TRANSISTORS  
NPN=2N5172.

R3A Oct 21/79.  
Revision from original  
May 20/79.