

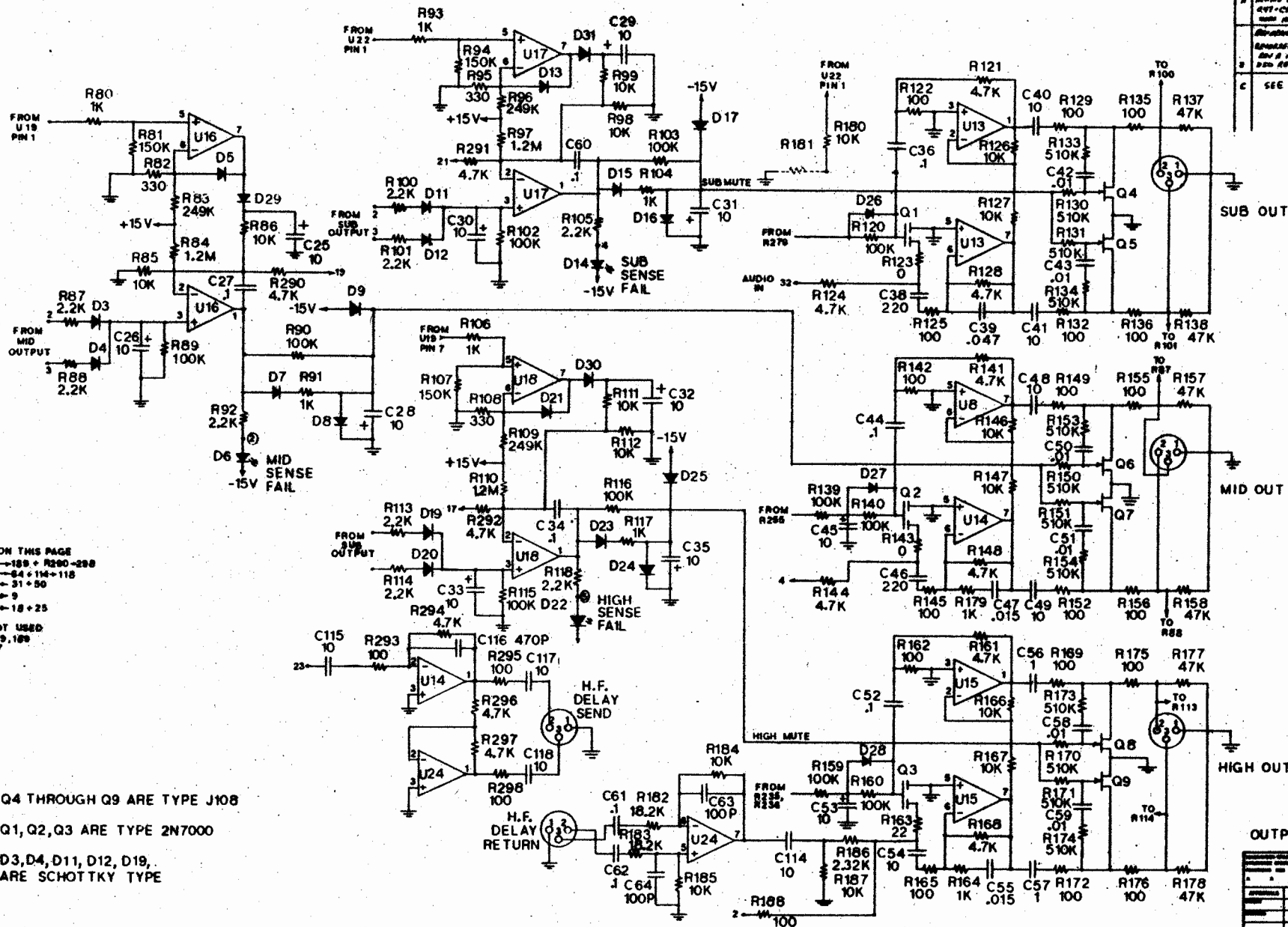
PARTS MARKED * ARE ON PROGRAM PCB,
SEE PAGE 4 FOR VALUE.

REV	DESCRIPTION	DATE	BY
1	Revise to X-310 (see also Rev. 1.0)	7-6-87	AL
2	Revise to X-310 (see also Rev. 1.0)	8-10-87	AL
3	Revise to X-310 (see also Rev. 1.0)	7-17-88	AL

ON THIS PAGE NOT USED
R1-79 * 299
C1-24
U1-12
D1, 18

INPUT, X-OVERS

RENKUS-HEINZ	
SCHEMATIC, X-310	
PROCESSOR	
REV	D
NO NOT SCALE DRAWING	UNIT 1



ON THIS PAGE
 R80-189 + R290-298
 C25-84 + 114 + 118
 D3-31 + 50
 Q1-9
 U13-18 + 25
 NOT USED
 R119, 120
 C37

Q4 THROUGH Q9 ARE TYPE J108

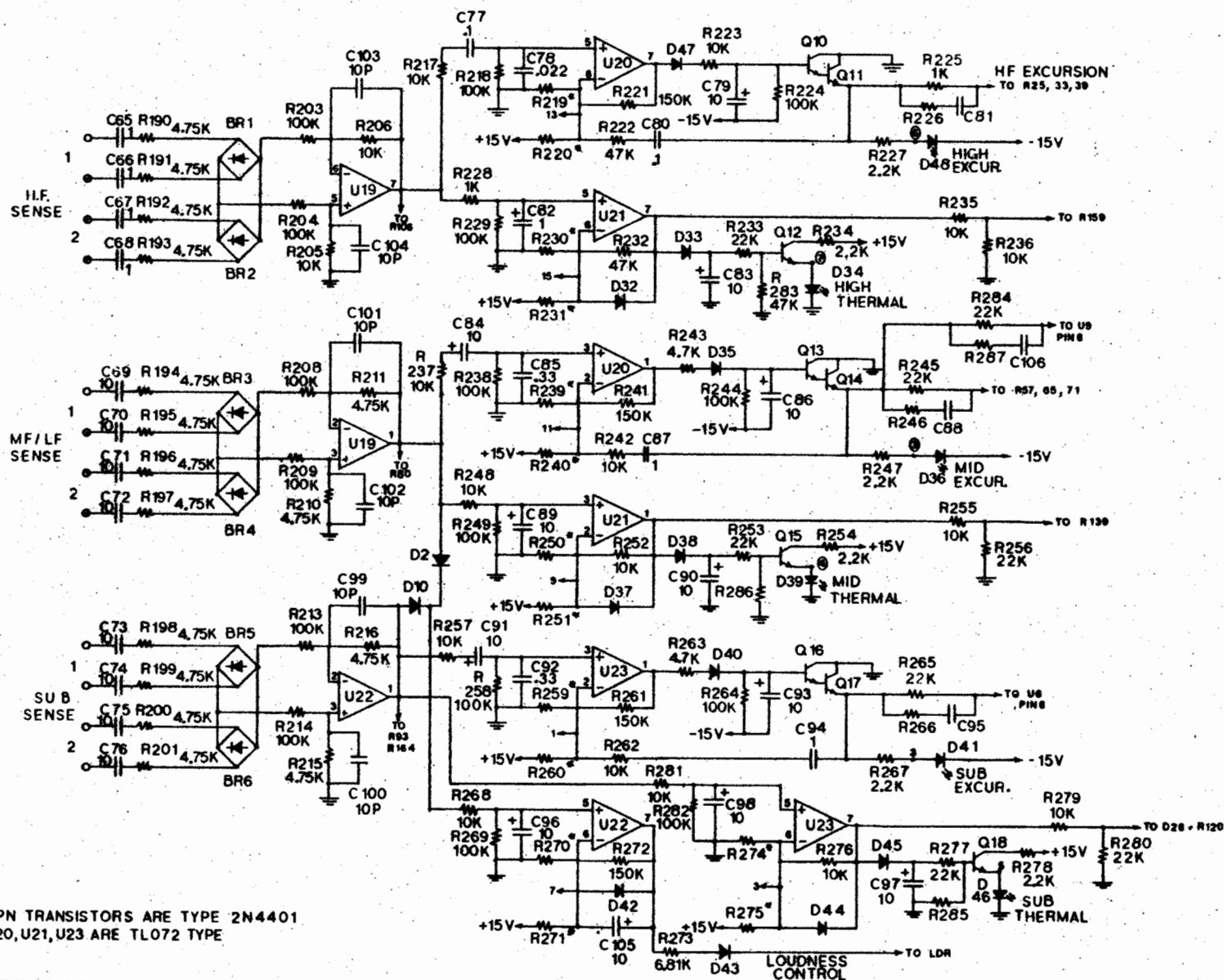
Q1, Q2, Q3 ARE TYPE 2N7000

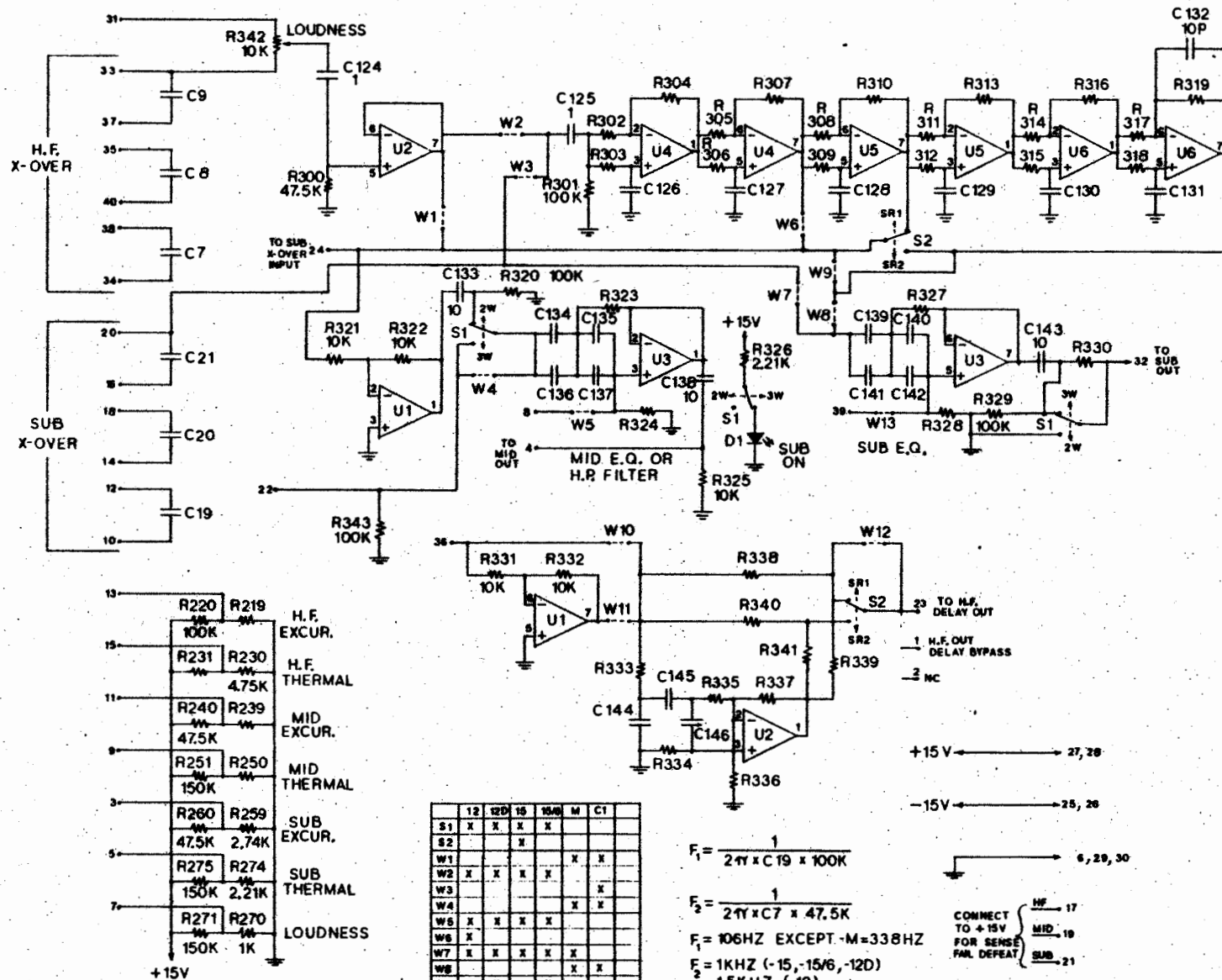
D3, D4, D11, D12, D19,
 ARE SCHOTTKY TYPE

REV	DESCRIPTION	DATE	APPROVED
1	Revise to match 3 and 4 of 447-CST with 2-12-97 and 4-12-97	2-12-97	R.H.
2	Revised schematic to match 4-12-97 and 4-12-97	4-12-97	
3	SEE SATC 4 + 5	5-27-97	P.O.

REV	DESCRIPTION	DATE	APPROVED
1	SCHEMATIC, X310 PROCESSOR		
2	D		

REV	DESCRIPTION	DATE	BY
A	REVISION TO SCHEMATIC X310	7-7-61	FD
B	REV. 200, 2, 10		
C	SEE SHYS 4+5	5-17-62	FO





	12	12D	15	15/6	M	C1
S1	X	X	X	X		
S2						
W1	X	X	X	X	X	X
W2	X	X	X	X		
W3					X	X
W4					X	X
W5	X	X	X	X	X	X
W6	X					
W7	X	X	X	X	X	X
W8					X	X
W9	X				X	X
W10					X	X
W11	X	X	X	X	X	X
W12	X	X	X	X	X	X
W13	X	X	X	X	X	X

$$F_1 = \frac{1}{2\pi \times C19 \times 100K}$$

$$F_2 = \frac{1}{2\pi \times C7 \times 47.5K}$$

$F_1 = 106\text{HZ EXCEPT -M=338HZ}$

$F_2 = 1\text{KHZ (-15, -15/6, -12D)}$

2.2KHZ (-M)

REV	DESCRIPTION	DATE	APPROVED
A	1.000	1-4-87	R.D.
B	1.000	1-4-87	
C	1.000	1-4-87	

R219	1.5K	1.5K	1.5K	1.5K	1.5K	4.02K
R339	18.2K	18.2K	18.2K	18.2K	12.1K	22.1K
R327	6.81K	6.81K	6.81K	6.81K	6.81K	6.81K
C141,142	.047	.047	.047	.047	.047	—
C139,140	.1	.1	.1	.1	.1	.1
C128-C131	—	.0022	.0033	.0022	—	.01
R308-R319	—	10K	18K	18K	—	12.1K
R338	18.2K	18.2K	18.2K	18.2K	12.1K	10K
R340,341	—	—	6.81K	—	—	—
C146	.001	.001	470P	.001	470P	470P
C144	.0033	.001	—	.001	—	—
C145	.0022	.0022	.0033	.0022	.0033	.0033
R336	2.21K	22.1K	22.1K	22.1K	22.1K	22.1K
R334	15K	10K	47.5K	18.2K	47.5K	47.5K
R337	6.81K	6.81K	6.81K	12.1K	6.81K	6.81K
R335	6.81K	10K	10K	10K	10K	10K
R333	6.81K	4.75K	4.75K	4.75K	4.75K	4.75K
C126,127	.0022	.001	.0033	.0022	—	.01
R302-R307	12.1K	12.1K	18.2K	15K	—	12.1K
R324	—	—	—	—	15K	15K
R323	6.81K	6.81K	6.81K	6.81K	15K	15K
R330	—	—	—	—	4.75K	0
R250	1.5K	1.5K	2.21K	2.21K	1.5K	1.5K
R239	2.32K	2.32K	2.74K	2.74K	2.74K	2.74K
R231	68.1K	56.2K	56.2K	56.2K	56.2K	56.2K
C136,137	—	—	.022	.022	—	—
C134,135	.1	.1	.1	.1	.1	.1
C19,20,21	.015	.015	.015	.015	.0047	.0047
C7,8,9	.0022	.0033	.0033	.0033	.0015	.0022
MODEL	-12	-12D	-15	-15/6	-M	-C1

RENKUS-HEINZ	
SCHEMATIC, X310	
PROGRAM MODULE	
REV	1.000
DATE	1-4-87
APPROVED	R.D.
DO NOT SCALE DIMENSIONS	
SHEET 4	

