MAIN I.C. BOARD SHT 3

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	RELEASED CTC	9-27-80	

7V DC
8.2V AC
8.2V AC
0V AC
8.2VAC
8.2VAC
SIGNAL GROUND
SPEAKER
3BZ61 D4
3BZ61 D5
F1 5A
IR1 27CU038 2SD553 (2SD568)
IR2 OUT IN 78MG SEN COM
R87 4 10W
R88 50 3W
C33 10,000/10
C34 10,000/10
C35 .1
C36 10/25
C37 470/10
D8 1Z62
1SI885 D6
1SI885 D7
C38 2200/25
C40 47/10
C41 47/10
C42 470/10
C43 .1
C44 .1
MB3712 11A
+5V
+5
RM3 1KX4(8)P
RM1 1KX8P
RM2 1KX8P
SW2 6P DIP SW
SW1
SW3
SW4
R1 220
R5 220
R6 220
R7 220
R8 220
R9 220
R10 220
R11 220
R12 220
R13 220
R14 220
C1 .1
C2 .1
C3 .1
C4 .1
C5 .1
C6 .1
C7 .1
C8 .1
C9 .1
C10 .1
C11 .1
C12 .1
C13 .1
C14 .1
9C 4/6 368
9F 4/6 368
9E 4/6 368
9D 4/6 368
8/6 368
DIPSW
RESET
NOT USED
VOL. CONT. WIPER
2P START
1P START
SERVICE
RESET
TABLE
SHOOT
RIGHT
LEFT
COIN 2
COIN 1
GND
VOL CONT POT GND
BD3
BD2
BD1
BD0
BD7
BD6
BD5
BD4

+5
R55 220
Vcc
1H
8D 1/6 369 OR 365
Φ
WREQ
NMI
INT
BUS RQ
RESET
M1
I/O RQ
HALT
BUSAK
CPU Z-80A 78
RFSH
MREQ
A15
A14
A13
A12
A11
A10
A9
A8
A7
A6
A5
A4
A3
A2
A1
A0
RD
WR
D0 D1 D2 D3 D4 D5 D6 D7
245 (8304B) 9B
8216 x2 8H 8F
CS
DIEN
RD
G

7H 2364 OR 2332 ROM1
7K 2332 ROM2
7N 2114
2114 7P
ROM3 2316/2716
1/6 367 OR 365
8E LS139
8P LS138
8N LS138
8M LS138
2N 00
8L 00
3R 02
6E 04
6N 02
7T LM324
7R 4066
6T 393
9N 259
9M 259
9L 259
9R 555
8R 555
8S 555
8T 555
7S 555
6S 74
6T 393
7H 273
9J 273
7K 7L 7N 7P
WDR
DIPSW
SW1
SWB
OBJRAM RD (SH1)
VRAMRD (SH1)
OBJRAM (SH1)
VRAM
OBJRAMWR (SH1)
VRAMWR (SH1)
PITCH
SOUND
LAMP
V FLIP (SH1)
H FLIP (SH1)
STARS ON (SH2)
NMI ON (SH2)
RESET
WEN
HBLANK (SH1)
VBLANK (SH2)
1H (SH1)
2H (SH1)
WR
WREQ
RD
BD0 BD1 BD2 BD3 BD4 BD5 BD6 BD7
R20 15K
R21 100K
R22 100K
R23 470K
R25 100K
R26 330K
R28 100K
R29 10K
R27 10K
R30 10K
R31 47K
R32 47K
R33 10K
R34 15K
R35 150K
R36 22K
R37 470K
R38 33K
R39 22K
R40 2.2K
R41 100K
R43 2.2K
R44 10K
R45 22K
R46 10K
R47 2.2K
R48 2.2K
R49 10K
R50 22K
R51 33K
R52 15K
R53 1K
R54 10K
R42 22K
1K
C15 1/16
C16 .01
C17 .01
C18 .01
C19 .01
C20 .01
C21 22/16
C22 .01
C23 .01
C24 10/10
C25 1/16
C26 .01
C27 .01
C28 47/10
C29 .01
C30 .001
C31 10/10
C39 .1
C45 .001
Q1 Q2 25A1015 x2
330K
COIN CNTR (SW 8)
3P CONN.
VOL. CONT. INPUT
RESET SW AKC-8N
1SI588 D2
1SI588 D3
NOISE (SH2)
MSHOOT

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± DECIMALS .XX ± ANGLES ±
.XXX ±

MATERIAL
FINISH
NEXT ASSY | USED ON
APPLICATION
DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS	DATE
DRAWN C.T. CATTELL	8-20-80
CHECKED JEFF TED-S	8-22-80
	8-27-80

Gremlin Industries, Inc.
San Diego, California 92123

MOON CRESTA
SCHEMATIC ELECTRONICS
MODIFIED

SIZE D | CODE IDENT NO. | DRAWING NO. 800-3121 | A
SCALE | SHEET 3 OF 4

800-3121 A

MAIN I.C. BOARD SHT 2

ZONE	LTR	REVISIONS DESCRIPTION	DATE	APPROVED
	A	RELEASED SD	8-27-80	

- 16.4ms
- 64ms ↓ to ↓ edge

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± DECIMALS XX ± XXX ± ANGLES ±

MATERIAL

FINISH

NEXT ASSY | USED ON

APPLICATION

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS	DATE
DRAWN SON DUONG	8-20-80
CHECKED Jeff Rose	8-22-80
	8-27-80

Gremlin Industries, Inc.
San Diego, California 92123

MOON CRESTA
SCHEMATIC ELECTRONICS
MODIFIED

SIZE	CODE IDENT NO.	DRAWING NO.	
D		800-3121	A

SCALE NONE | SHEET 2 OF 4

800-3121 A

MAIN I.C. BOARD SHT 1

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	RELEASED CTC	8-27-80	

NOTES: UNLESS OTHERWISE STATED
1. ALL RESISTANCE VALUES ARE IN OHMS, 1/8 WATT.
2. ALL CAPACITANCE VALUES ARE IN MICRO FARADS, CERAMIC.
3. POLARIZED CAPACITORS ARE TANTALUM.
4. FOR MODIFICATION PROCEDURE SEE DRAWING # 800-3110.

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± | DECIMALS .XX ± .XXX ± | ANGLES ±

MATERIAL

FINISH

NEXT ASSY | USED ON

APPLICATION

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS	DATE
DRAWN C.T. CATTELL	8-27-80
CHECKED	8-27-80

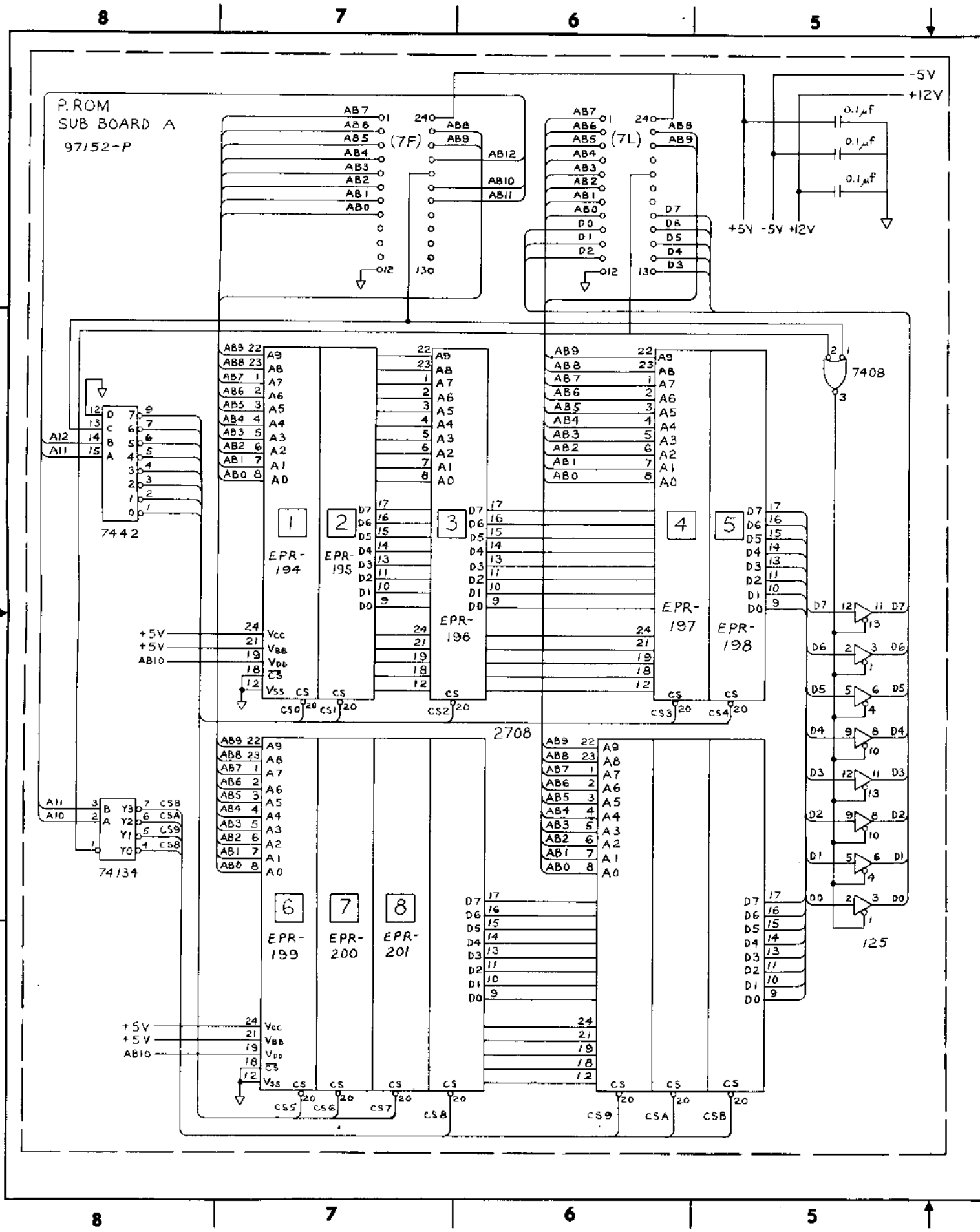
Gremlin Industries, Inc.
San Diego, California 92123

MOON CRESTA
SCHEMATIC ELECTRONICS
MODIFIED

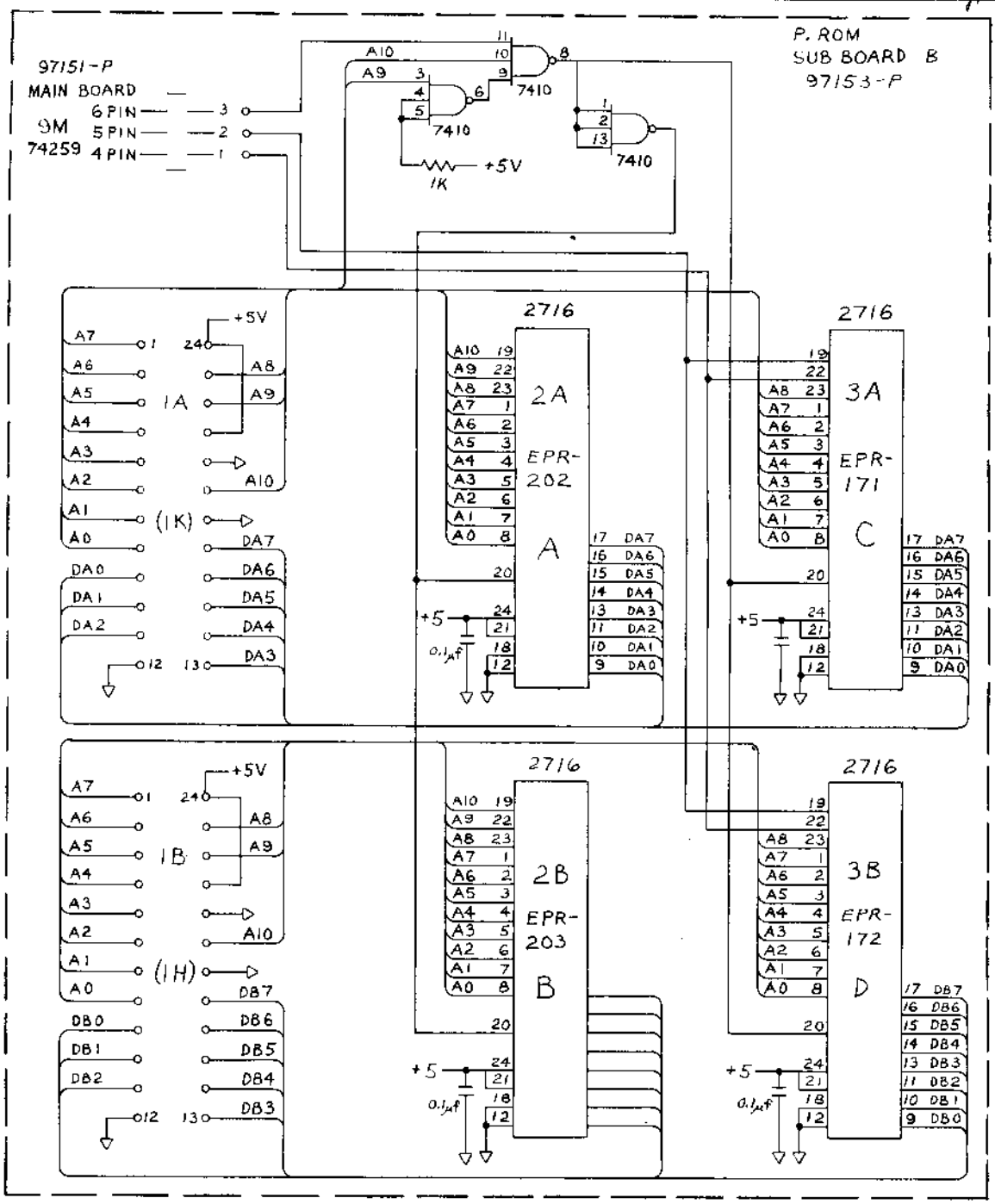
SIZE	CODE IDENT NO.	DRAWING NO.	
D		800-3121	A

SCALE NONE | SHEET 1 OF 4

800-3121


P. ROM
SUB BOARD A
97152-P
(7F)
(7L)
-5V
+12V
0.1μf
0.1μf
0.1μf
+5V -5V +12V
7408
7442
74134
2708
EPR-194
EPR-195
EPR-196
EPR-197
EPR-198
EPR-199
EPR-200
EPR-201
125

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	RELEASED CTC	8-27-80	



QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
			PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± DECIMALS .XX ± .XXX ± ANGLES ±

MATERIAL

FINISH

NEXT ASSY | USED ON

APPLICATION

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS	DATE
DRAWN T. CATTELL	8/26/80
CHECKED	8-27-80

Gremlin Industries, Inc.
San Diego, California 92123

MOON CRESTA
SCHEMATIC ELECTRONICS
MODIFIED

SIZE	CODE IDENT NO.	DRAWING NO.	
D		800-3121	A

SCALE | SHEET 4 OF 4

800-3121