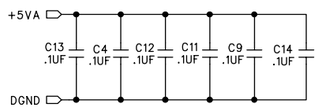
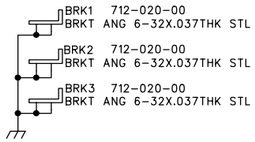
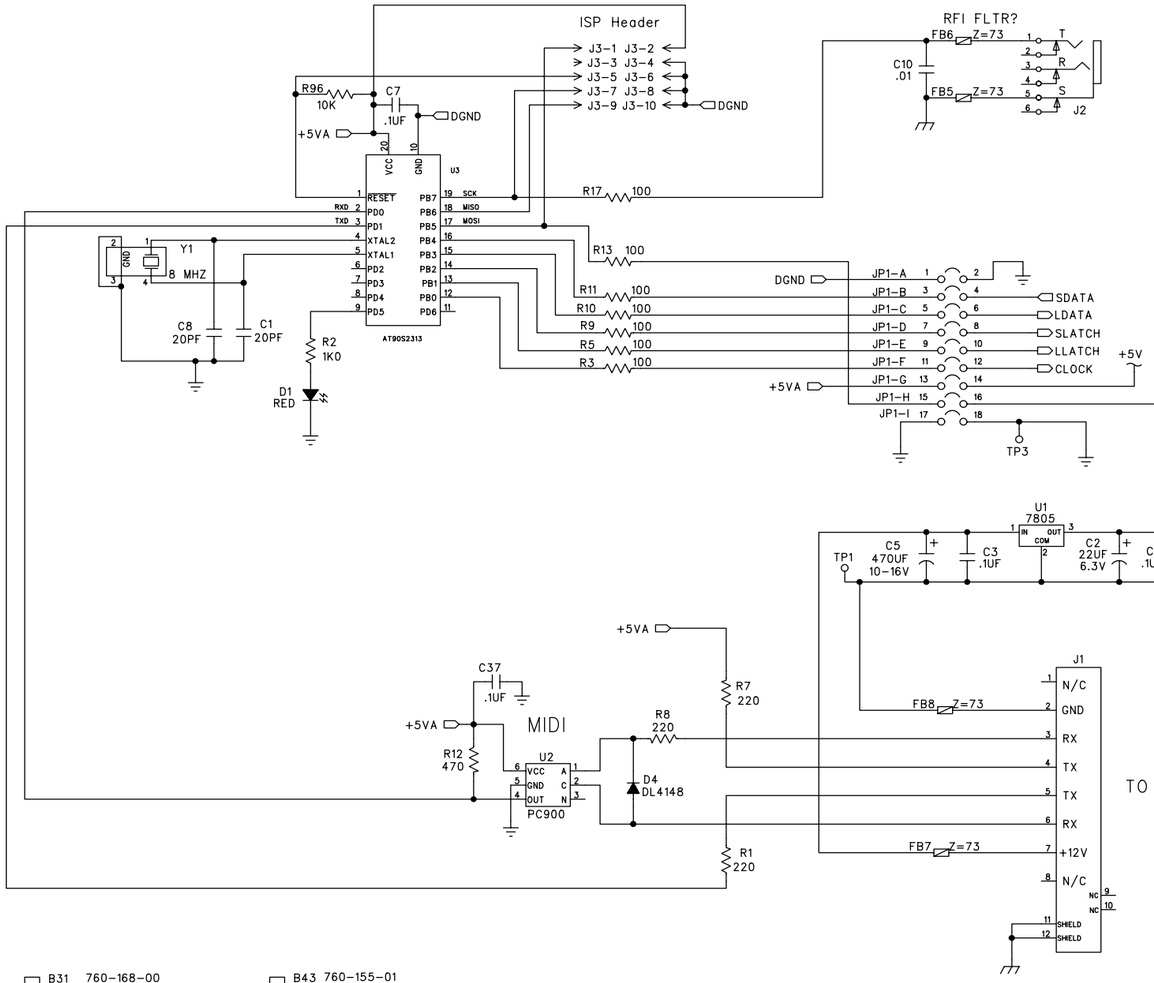
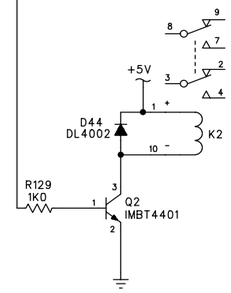
DWG. NO.	SHT	REV:
990-291-00	1	A

ECO#	REV:	DESCRIPTION	REV. BY:	APP. BY:	DATE









Z1 450-291-00
PCB, HDR: SMALL REMOTE

Z2 700-012-00
MCH 4-40X3/8 PHP CLRZC

Z3 705-005-00
NUT LOCK 4-40

SP2 706-096-00
SPCR PVC .120 LED TRI

SP1 706-096-00
SPCR PVC .120 LED TRI

RVT1 712-021-01
RVT CL END .125X.062-.125

RVT2 712-021-01
RVT CL END .125X.062-.125

RVT3 712-021-01
RVT CL END .125X.062-.125

RVT4 712-021-01
RVT CL END .125X.062-.125

RVT5 712-021-01
RVT CL END .125X.062-.125

RVT6 712-021-01
RVT CL END .125X.062-.125

B1 760-168-00
BTN .280 IN DIA HDR/D2B

B2 760-168-00
BTN .280 IN DIA HDR/D2B

B3 760-168-00
BTN .280 IN DIA HDR/D2B

B4 760-168-00
BTN .280 IN DIA HDR/D2B

B5 760-168-00
BTN .280 IN DIA HDR/D2B

B6 760-168-00
BTN .280 IN DIA HDR/D2B

B7 760-168-00
BTN .280 IN DIA HDR/D2B

B8 760-168-00
BTN .280 IN DIA HDR/D2B

B9 760-168-00
BTN .280 IN DIA HDR/D2B

B10 760-168-00
BTN .280 IN DIA HDR/D2B

B11 760-168-00
BTN .280 IN DIA HDR/D2B

B12 760-168-00
BTN .280 IN DIA HDR/D2B

B13 760-168-00
BTN .280 IN DIA HDR/D2B

B14 760-168-00
BTN .280 IN DIA HDR/D2B

B15 760-168-00
BTN .280 IN DIA HDR/D2B

B16 760-168-00
BTN .280 IN DIA HDR/D2B

B17 760-168-00
BTN .280 IN DIA HDR/D2B

B18 760-168-00
BTN .280 IN DIA HDR/D2B

B19 760-168-00
BTN .280 IN DIA HDR/D2B

B20 760-168-00
BTN .280 IN DIA HDR/D2B

B21 760-168-00
BTN .280 IN DIA HDR/D2B

B22 760-168-00
BTN .280 IN DIA HDR/D2B

B23 760-168-00
BTN .280 IN DIA HDR/D2B

B24 760-168-00
BTN .280 IN DIA HDR/D2B

B25 760-168-00
BTN .280 IN DIA HDR/D2B

B26 760-168-00
BTN .280 IN DIA HDR/D2B

B27 760-168-00
BTN .280 IN DIA HDR/D2B

B28 760-168-00
BTN .280 IN DIA HDR/D2B

B29 760-168-00
BTN .280 IN DIA HDR/D2B

B30 760-168-00
BTN .280 IN DIA HDR/D2B

B31 760-168-00
BTN .280 IN DIA HDR/D2B

B32 760-168-00
BTN .280 IN DIA HDR/D2B

B33 760-168-00
BTN .280 IN DIA HDR/D2B

B34 760-168-00
BTN .280 IN DIA HDR/D2B

B35 760-168-00
BTN .280 IN DIA HDR/D2B

B36 760-168-00
BTN .280 IN DIA HDR/D2B

B37 760-168-00
BTN .280 IN DIA HDR/D2B

B38 760-168-00
BTN .280 IN DIA HDR/D2B

B39 760-168-00
BTN .280 IN DIA HDR/D2B

B40 760-168-00
BTN .280 IN DIA HDR/D2B

B41 760-168-00
BTN .280 IN DIA HDR/D2B

B42 760-168-00
BTN .280 IN DIA HDR/D2B

B43 760-155-01
BTN, TRNSPRT LG .61X.5 RWFF

B44 760-155-01
BTN, TRNSPRT LG .61X.5 RWFF

B45 760-155-03
BTN, TRNSPRT LG .61X.5 STP

B46 760-155-04
BTN, TRNSPRT LG .61X.5 PLY

B47 760-155-05
BTN, TRNSPRT LG .61X.5 REC

Z30 706-099-00
SPCR PVC T1 LED .350

Z31 706-099-00
SPCR PVC T1 LED .350

Z32 706-099-00
SPCR PVC T1 LED .350

Z33 706-099-00
SPCR PVC T1 LED .350

Z34 706-099-00
SPCR PVC T1 LED .350

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS: ±NA DECIMALS: .XX ±.01 .XXX ±.005 ANGLES: ±NA
MATERIAL: SEE NOTES
FINISH: SEE NOTES
DO NOT SCALE DRAWING

APPROVALS	DATE
DRAWN: JJI	3-31-00
CHECKED:	
NP ENG:	
MATERIAL:	
MFG:	
MFG ENG:	
ISSUED:	

MACKIE.
Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC,
SMALL REMOTE

SIZE	SCALE:	DWG. NO.	REV.
D	NONE	990-291-00	A

DWG FILE: | SHEET 1 OF 4

LDATA_U10-U12

LDATA_U12-U19

SDATA_U11-U13

SDATA_U13-U20

TRACK 16 SW16 SUPER RED D21
TRACK 15 SW15 SUPER RED D20
TRACK 14 SW14 SUPER RED D19
TRACK 13 SW13 SUPER RED D18
TRACK 4 SW7 SUPER RED D9
TRACK 3 SW3 SUPER RED D8
TRACK 2 SW2 SUPER RED D7
TRACK 1 SW1 SUPER RED D6

R48 2K, R47 2K, R46 2K, R45 2K, R24 2K, R23 2K, R22 2K, R21 2K

C15 .1UF +5V

U4 74HC595
LDATA IN
CLOCK SCLK
+5V RESET
LLATCH LCLK
OE
GND VCC
OUT Q7 Q6 Q5 Q4 Q3 Q2 Q1 Q0

R30 10K, R31 10K, R32 10K, R33 10K, R54 10K, R55 10K, R56 10K, R57 10K

C19 .1UF +5V

U7 74HC597
VCC GND
IN
OUT SDATA
SCLK CLOCK
+5V RESET
LCLK
S/P SLATCH
Q7 Q6 Q5 Q4 Q3 Q2 Q1 Q0

REC READY 1-4 / 13-16

TRACK 20 SW21 SUPER RED D25
TRACK 19 SW19 SUPER RED D24
TRACK 18 SW18 SUPER RED D23
TRACK 17 SW17 SUPER RED D22
TRACK 8 SW9 SUPER RED D13
TRACK 7 SW5 SUPER RED D12
TRACK 6 SW4 SUPER RED D11
TRACK 5 SW8 SUPER RED D10

R42 2K, R51 2K, R50 2K, R49 2K, R18 2K, R25 2K, R29 2K, R28 2K

C18 .1UF +5V

U5 74HC595
LDATA_U12-U19
CLOCK +5V
LLATCH
GND VCC
IN
OUT Q7 Q6 Q5 Q4 Q3 Q2 Q1 Q0

R34 10K, R35 10K, R36 10K, R37 10K, R58 10K, R59 10K, R60 10K, R61 10K

C20 .1UF +5V

U8 74HC597
SDATA_U13-U20
VCC GND
IN
OUT
SCLK CLOCK
+5V RESET
LCLK
S/P SLATCH
Q7 Q6 Q5 Q4 Q3 Q2 Q1 Q0

REC READY 5-8 / 17-20

MACKIE.
Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC,
SMALL REMOTE

SIZE	SCALE:	DWG. NO.	REV.
D	NONE	990-291-00	A
DWG FILE:		SHEET 2 OF 4	

TRANSPORT CONTROLS

REC READY 9-12 / 21-24

U6 74HC595 — LDATA_U12-U19 → LDATA_U19-U24; CLOCK; LLATCH

TRACK 24 SW24 SUPER RED D29 — R44 2K
TRACK 23 SW23 SUPER RED D28 — R53 2K
TRACK 22 SW20 SUPER RED D27 — R52 2K
TRACK 21 SW22 SUPER RED D26 — R43 2K
TRACK 12 SW12 SUPER RED D17 — R27 2K
TRACK 11 SW11 SUPER RED D16 — R20 2K
TRACK 10 SW6 SUPER RED D15 — R26 2K
TRACK 9 SW10 SUPER RED D14 — R19 2K

R38 R39 R40 R41 R62 R63 R64 R65 10K

U9 74HC597 — SDATA_U20-U15 → SDATA_U13-U20; CLOCK; LLATCH → SLATCH

U16 74HC595 — LDATA_U14-U22; LLATCH

R136 1K0 — RECORD S2 C34 .1UF RED D49
R135 620 — PLAY S1 C33 .1UF GRN D48
R134 620 — STOP S3 C35 .1UF YEL D47
R133 620 — FFWD S4 C36 .1UF YEL D46
R132 620 — REWIND S5 C32 .1UF YEL D45

TRACK INC SW40
TRACK DEC SW39

R137 R141 R140 R138 R139 R130 R115 R142 10K

U19 74HC597 — SDATA_U15-U21; SLATCH

U12 74HC595 — LDATA_U16-U17; LDATA_U14-U16; CLOCK; LLATCH
R86 R85 R83 R16 R15 R6 R4 R101 1K0 → V-TRACK D37 7 SEG RED

U10 74HC595 — LDATA_U17-U18; CLOCK; LLATCH
R71 R70 R69 R103 R98 R82 R88 R68 1K0 → METER 10S

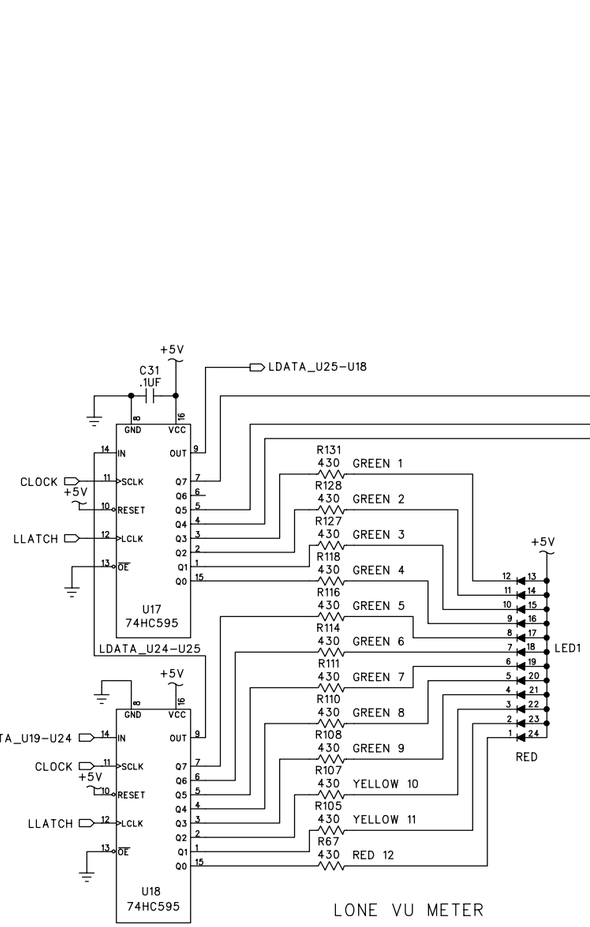
U11 74HC595 — LDATA_U25-U18; CLOCK; LLATCH
R84 R89 R99 R75 R74 R72 R73 R104 1K0 → METER 1S D39 DUAL 7SEG RED

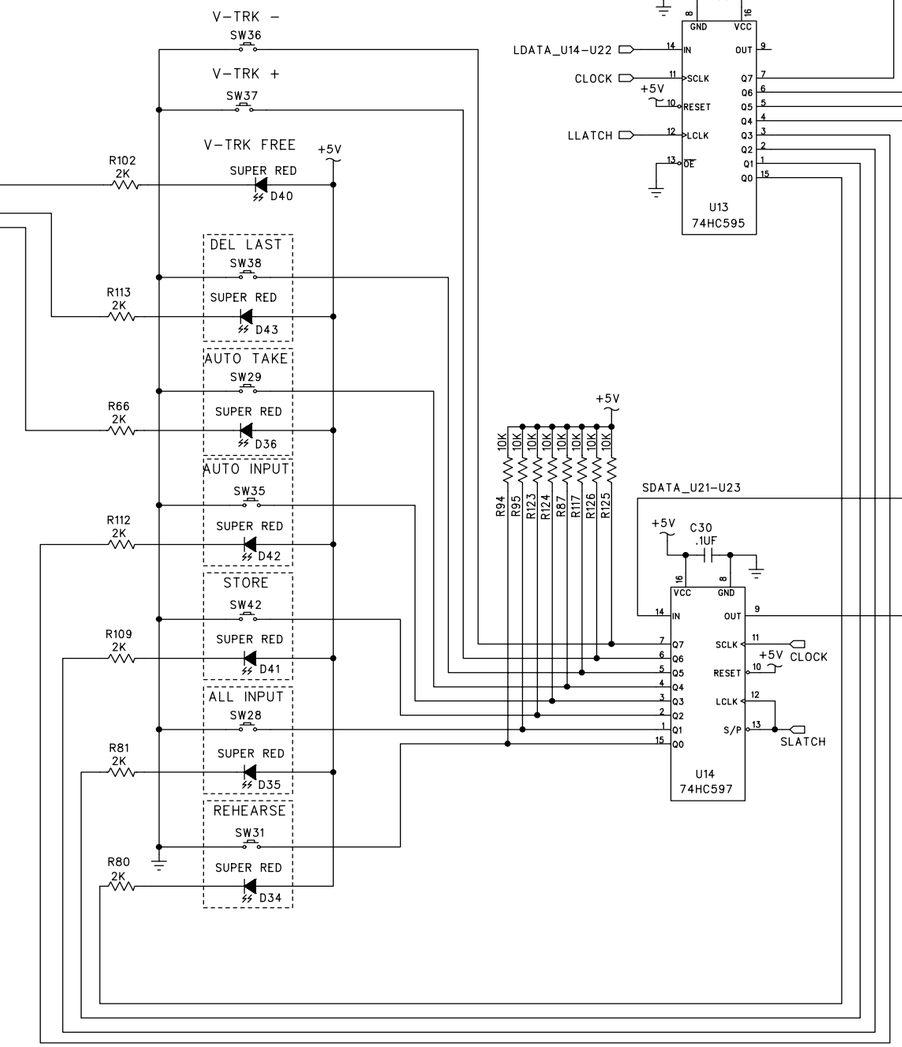
MACKIE. Mackie Designs Inc. Woodinville, Wa.

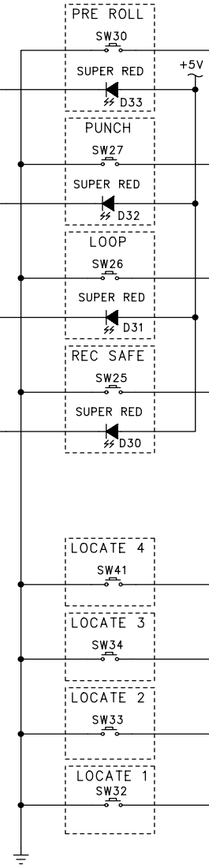
SCHEMATIC, SMALL REMOTE

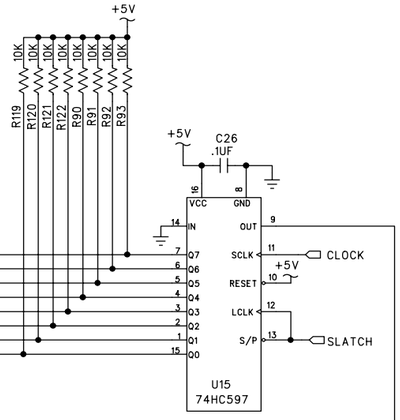
SIZE	SCALE:	DWG. NO.	REV.
D	NONE	990-291-00	A
DWG FILE:		SHEET 3 OF 4	

LOOP / PUNCH
MISC CONTROLS





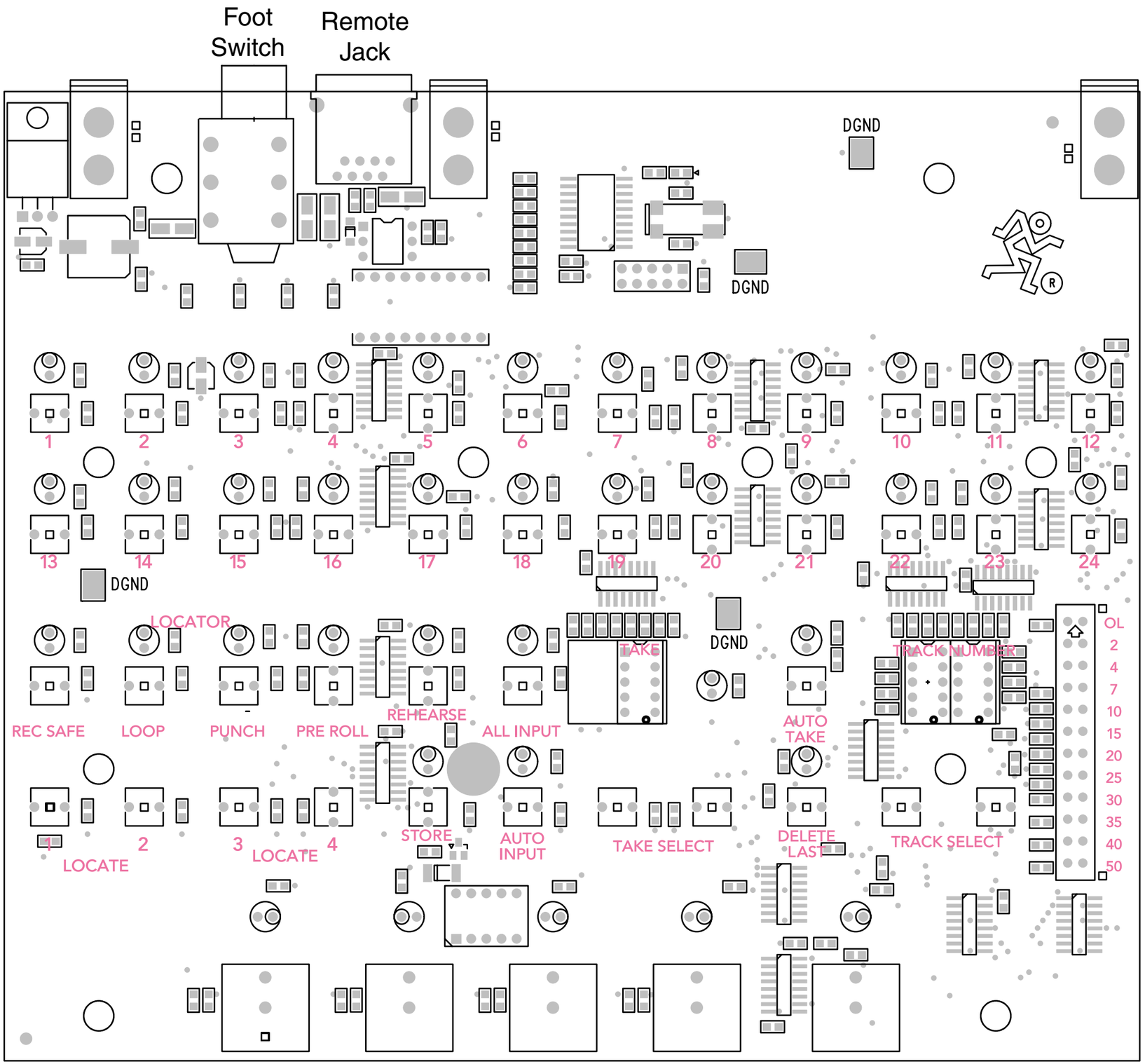


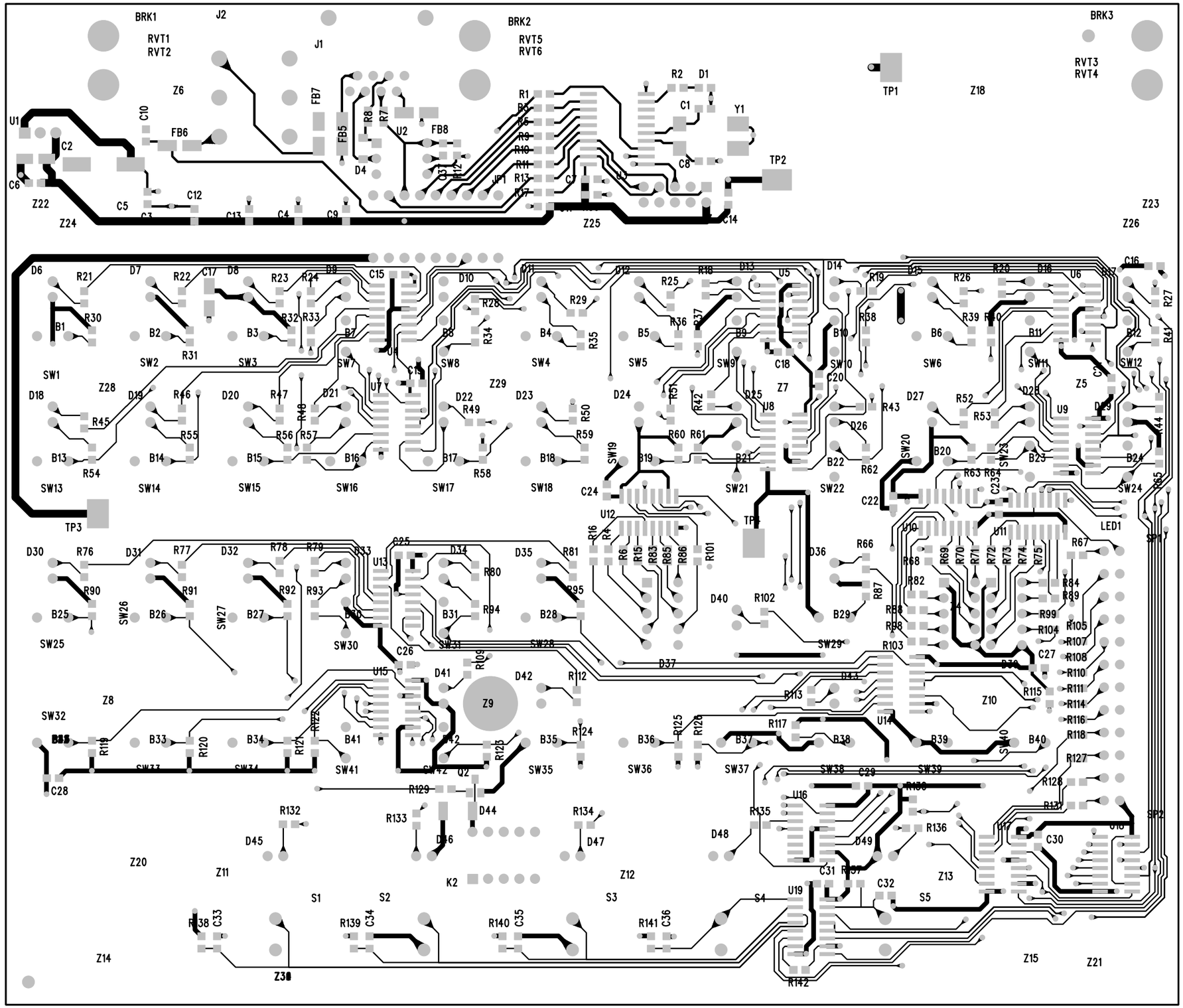


MACKIE.
Mackie Designs Inc. Woodinville, Wa.

SCHEMATIC,
SMALL REMOTE

SIZE	SCALE:	DWG. NO.	REV.
D	NONE	990-291-00	A
DWG FILE:		SHEET 4 OF 4	


Foot Switch
Remote Jack
DGND
DGND
1
2
3
4
5
6
7
8
9
10
11
12
13
14
DGND
15
16
17
18
19
20
21
22
23
24
LOCATOR
TAKE
DGND
TRACK NUMBER
OL
2
4
7
10
15
20
25
30
35
40
50
REC SAFE
LOOP
PUNCH
PRE ROLL
REHEARSE
ALL INPUT
AUTO TAKE
1
LOCATE
2
3
LOCATE
4
STORE
AUTO INPUT
TAKE SELECT
DELETE LAST
TRACK SELECT


BRK1
J2
RVT1
RVT2
J1
BRK2
RVT5
RVT6
BRK3
RVT3
RVT4
TP1
Z18
Z6
FB7
C10
FB6
FB5
R8
R7
U2
FB8
D4
R1
R2
D1
C1
Y1
U1
C2
C6
C12
C5
C3
C13
C4
C9
JP1
C7
C8
TP2
C14
Z22
Z24
Z25
Z23
Z26
D6
R21
D7
R22
C17
D8
R23
R24
D9
C15
D10
C11
R26
R29
D12
R25
R18
D13
U5
D14
R19
R26
R28
D18
U6
C16
R27
B1
R30
B2
R31
B3
R32
R33
B7
B8
R34
B4
R35
B5
R36
R37
B9
B10
R58
B6
R39
R40
B11
B12
R41
SW1
SW2
SW3
SW7
SW8
SW4
SW5
SW9
C18
SW10
C20
SW6
SW11
SW12
C19
Z5
Z28
Z29
Z7
D18
D19
R46
D20
R47
B21
U7
D22
R49
D23
R50
D24
R51
R42
D25
U8
D27
R52
R43
D28
D29
U9
R44
R45
R55
R56
R57
R48
B13
B14
B15
B16
B17
R58
B18
B19
B21
B22
R62
B20
B23
B24
R63
R64
C23
R65
SW13
SW14
SW15
SW16
SW17
SW18
SW19
SW21
SW22
SW20
SW23
SW24
C24
C22
TP3
U12
R16
R4
R6
R15
R83
R85
R86
R101
TP4
D36
R66
U10
U11
LED1
SPK1
R67
R54
D30
R76
D31
R77
D32
R78
R79
R33
C25
U13
D34
D35
R81
R80
R68
R69
R70
R71
R72
R73
R74
R75
R84
R89
R90
R91
R92
R93
R94
R95
D40
R102
B29
R87
R82
R88
R98
R99
R104
R105
R107
R108
R110
R111
R114
R116
R118
R127
R128
R131
SP2
B25
B26
B27
B30
B31
B28
SW25
SW26
SW27
SW30
SW31
SW28
SW29
R103
C27
D37
D38
D43
R113
R115
Z10
C26
U15
D41
D42
R112
R109
Z9
Z8
SW32
B33
B34
B41
B42
B35
B36
B37
B38
B39
B40
U14
R117
R125
R126
R124
R119
R120
R121
R122
R123
SW33
SW34
SW41
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Q2
SW35
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SW37
SW38
C29
SW39
R130
C28
R129
U16
R132
R133
D44
R134
R135
D45
D46
D47
D48
D49
R136
C30
U17
U18
Z20
Z11
Z12
Z13
K2
C31
R137
C32
S1
S2
S3
S4
S5
U19
R138
C33
R139
C34
R140
C35
R141
C36
R142
Z14
Z30
Z15
Z21