VOLUME BOARD

VOLUME LOOP ANTENNA

NULL INDICATOR (FRONT PANEL)
LED2 RED

R22 2.2K

C4 10UF tantalum

U2 TLC555
- VCC
- OUT 3
- RST 4
- DIS 7
- THRESH 6
- TRIG 2
- CV 5
- GND 1

9V

C9 470UF
R7 1K

VOL. INDICATOR (FRONT PANEL)
LED1 GREEN

LDR1 VACTROL VTL5C1

C6 1UF
OUTPUT_1

MAIN OUTPUT (REAR PANEL)
1/4" PHONE JACK
TIP
SLEEVE

A100K
VOLUME (FRONT PANEL)

INPUT_1
J2 +9V

INTERBOARD CONNECTION

R28 2.2K

Q3 MPSA42
R2 4.7K
R3 47K
R4 100
9V
R10 47K

C1 1UF

T5 MUTE

MUTE SWITCH (FRONT PANEL)
CLOSED = MUTE

R18 1M TL072 U1b
5 6 7

R11 100K
C15 1UF
POT1 10K

R13 1M TL072 U1a
3 1 2

NOTE: U1-PIN8 = 9V, U1-PIN7 = GND

C14 1UF
R16 100K
R17 100K
+9V

LED3 AMBER LED
R19 680
+9V

AMBER LED IS ON WHEN OUTPUT IS MUTED

R14 100K

C11 1UF

R24 1M
9V
SIGNAL
C7 100PF
R9 100K
D1 1N914 DETECTOR
R29 220K
R29 10K
R15 10K
9V

NULL (FRONT PANEL)
POT4 1K
C18 0.1UF

R20 4.7K
C22 47PF
Q2 MPSA42
C16 47PF
C17 100PF
C20 0.1UF

T6
ANT_1
A1

L2 42IF110-RC
L2 CASE

T7
A 1 2
B
C 1 2
D
ANT_2
R100 47K

L1 42IF110-RC
L1 CASE

C23 47PF
R8 4.7K
Q1 MPSA42
R6 10K
C13 47PF
C19 47PF
C8 100PF
R5 10K
C27 0.1UF
R27 1K
9V

+9V OUT
T3
R21 470 0.5W
C2 0.1UF
9V
U4 7809
IN OUT GND
12V
C4 0.1UF
D2 1N4001
C10 470UF

T6
J2
+12VDC IN
TIP = +
SLEEVE = GND

Title: PHOENIX SCHEMATIC_9_19_2013.PIC
Size C | Document Number | Rev A
Date: Fri, September 20, 2013 | Sheet 2 of 3