

ARC-8 CONSOLE SCHEMATIC

10-8-2009

INPUTS

Mic Input (bal +4dBu) w Phantom power

Channels 1-2

Channels 4-7

Stereo Line Input (unbal -10dBu with bal +4dBu)

Channel 8

USB

dBu	V _{PtOP}	V _{rms}
-50	.0069	.0025
-20	0.22	.0775
-10	0.69	.245
-2	1.7	.616
0	2.2	.775
+4	3.5	1.23
+8	5.5	1.95
+10	7.0	2.45
+13	10.0	3.46
+19	20.0	6.90
+19.8	21.5	7.57

Power

20 ICs
17 LEDs
2 VUs

-12V / 160mA
+12V / 560mA

TTL = 720mA at 12VDC

Notes:
1) Talk switch is on mic channel one only.
2) 3 autocue relays are on channel seven only.

Audio Buses: PL, PR, Q
Logic Buses: Q-G, M-M, M-L

OUTPUTS

Program Output (bal +4dBu)

Program Output (unbal -10dBu)

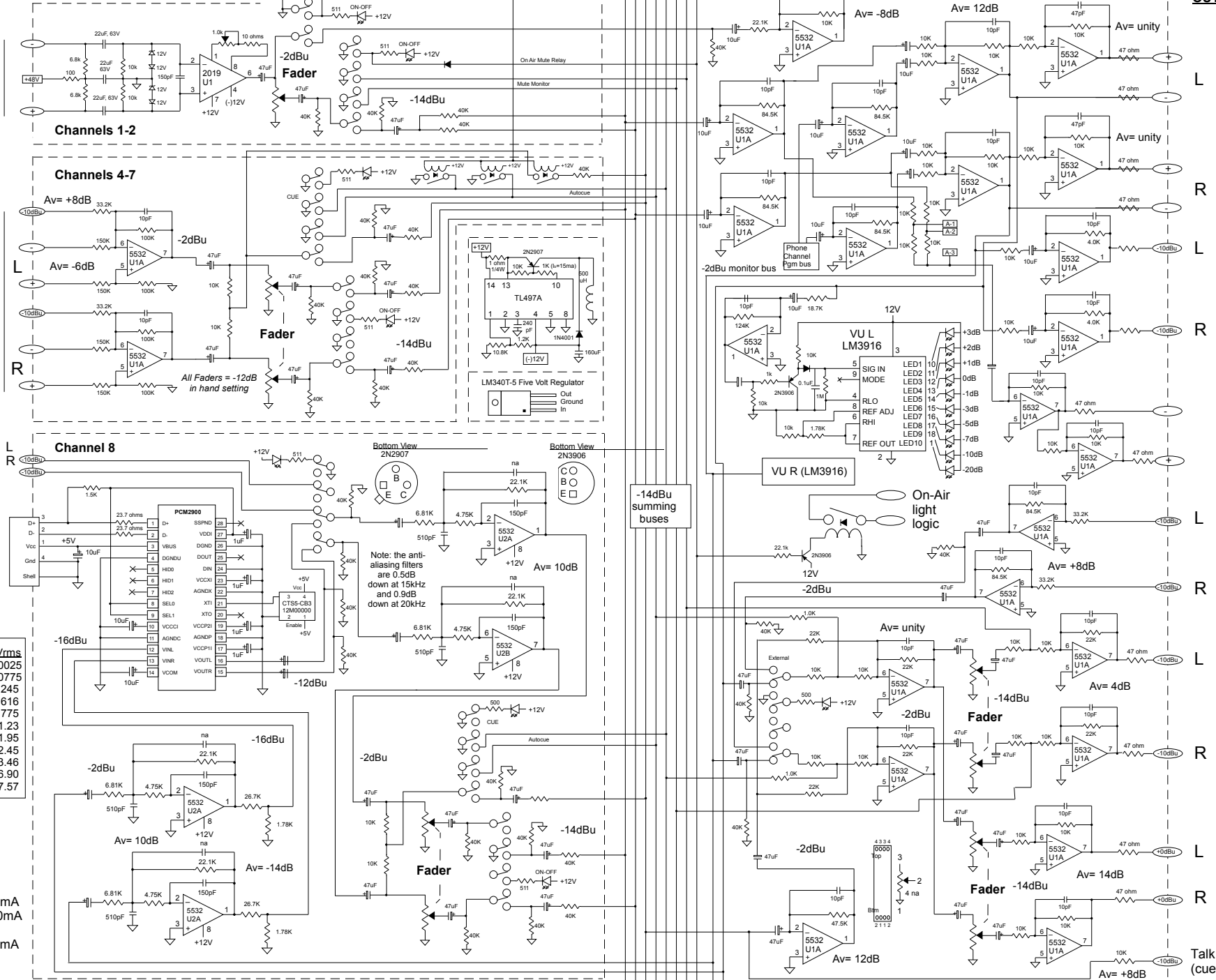
Mix minus Output (+4dBu bal)

External Monitor Input (unbal -10dBu)

CR Monitor Output (unbal -10dBu)

Head Phone Output (unbal 0dBu)

Talk back input (cue sum)



-14dB summing buses

VU R (LM3916)

On-Air light logic

Av= unity

Av= 4dB

Av= 14dB

Av= 12dB

Av= +8dB

Av= -8dB

Av= 12dB

Av= 14dB

Av= +8dB

Av= 12dB

Av= +8dB

LM340T-5 Five Volt Regulator

TL497A

2N2907

2N3906

PCM2969

5532 U2A

5532 U2B

5532 U1A

5532 U1B

5532 U1C

5532 U1D

5532 U1E

5532 U1F

5532 U1G

5532 U1H

5532 U1I

5532 U1J

5532 U1K

5532 U1L

5532 U1M

5532 U1N

5532 U1O

5532 U1P