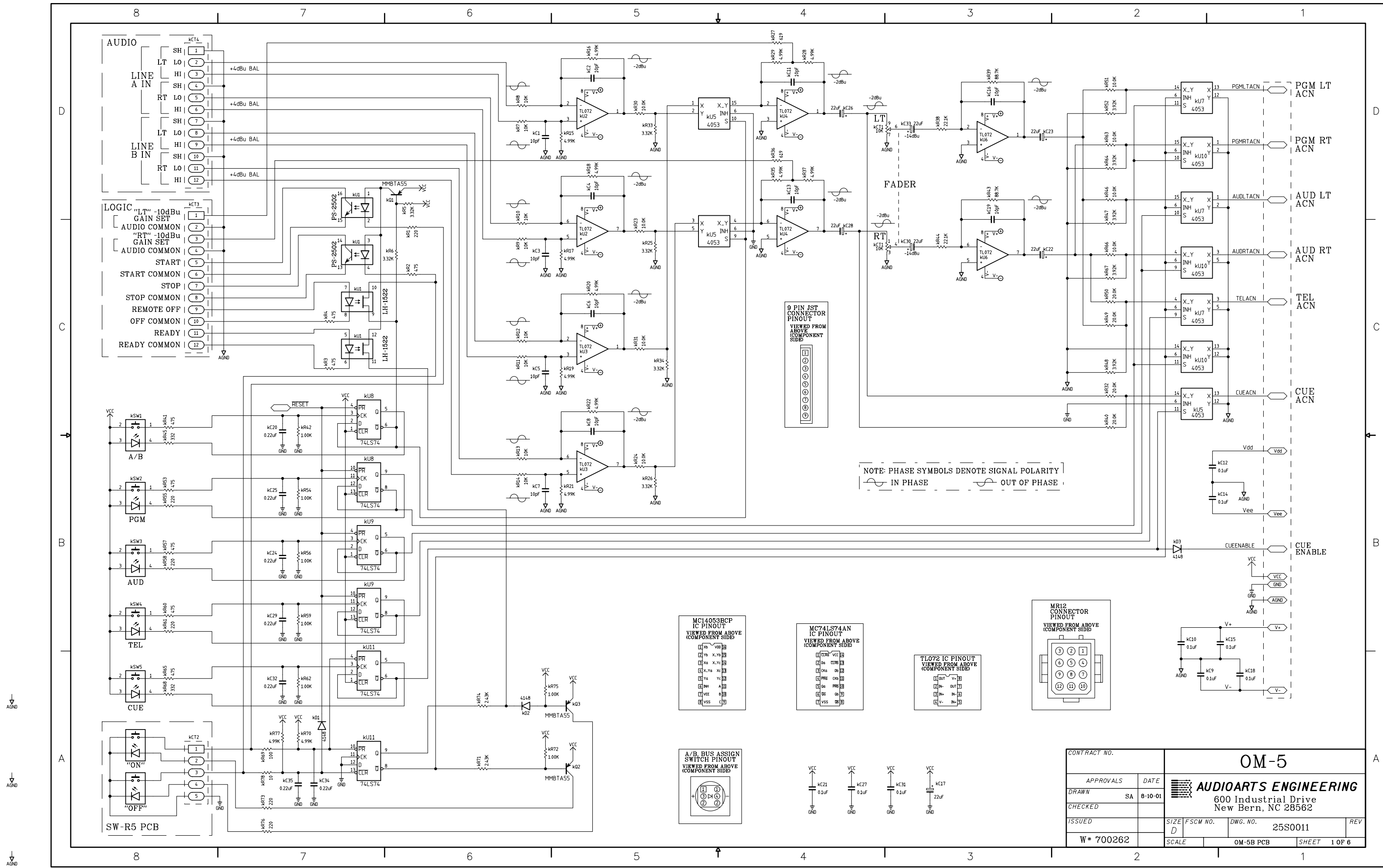
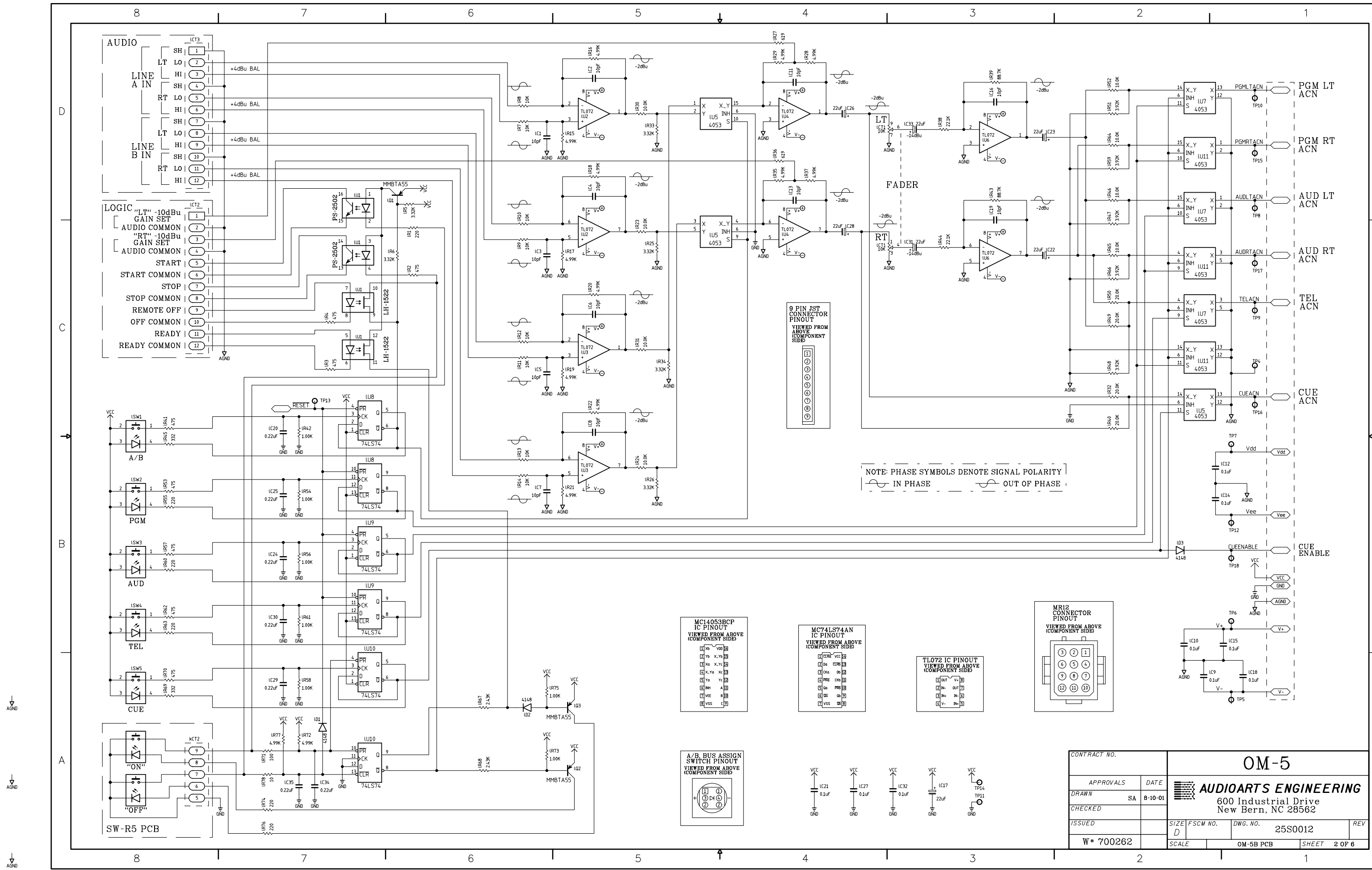




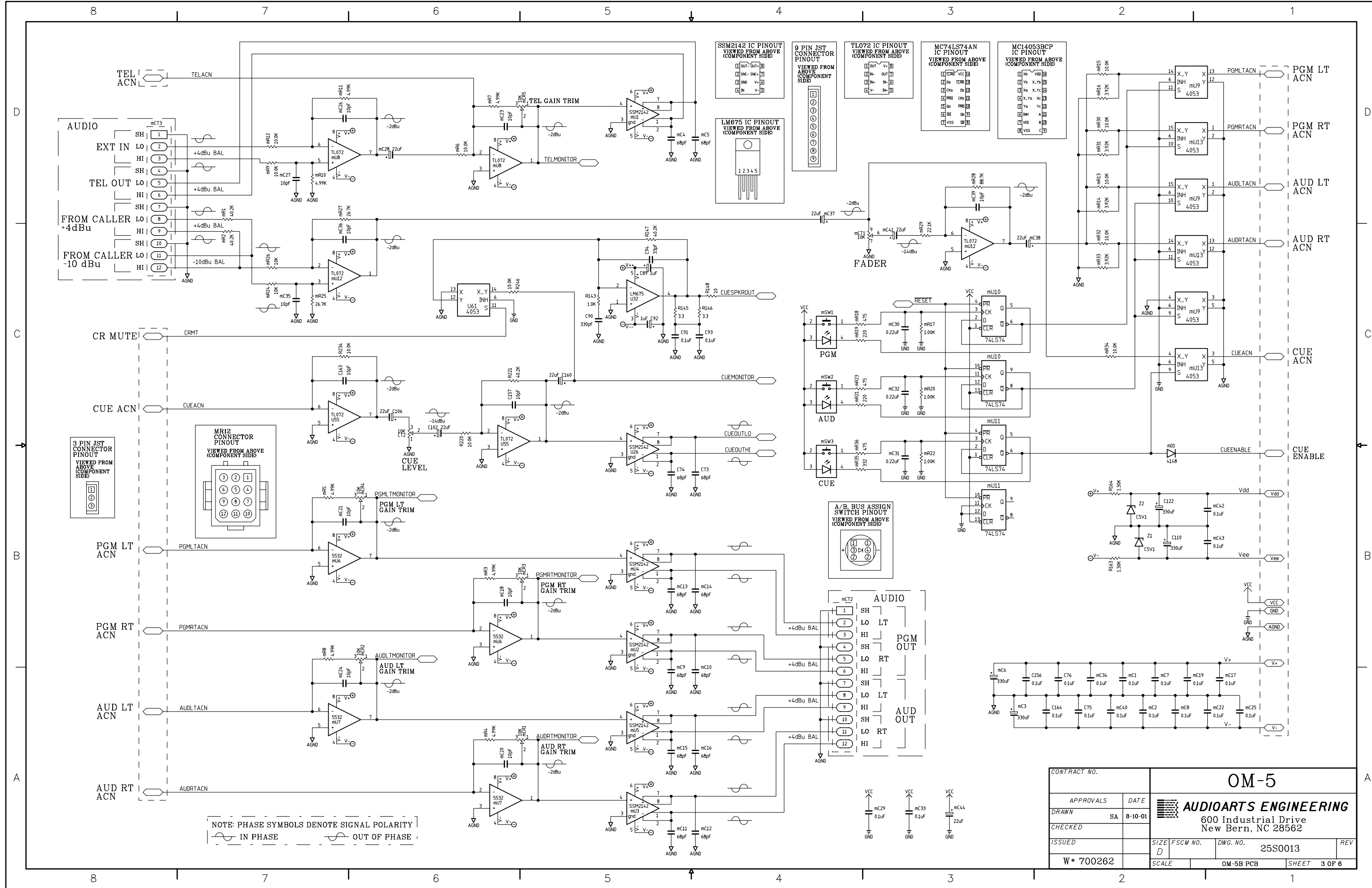
OM-5 Output Board (Line Input Section "k")
Schematic - Sheet 1 of 6

CONTRACT NO.		OM-5	
APPROVALS	DATE	AUDIOARTS ENGINEERING 600 Industrial Drive New Bern, NC 28562	
DRAWN	SA 8-10-01		
CHECKED		SIZE	FSCM NO.
ISSUED		D	25S0011
W# 700262		SCALE	OM-5B PCB
		SHEET 1 OF 6	

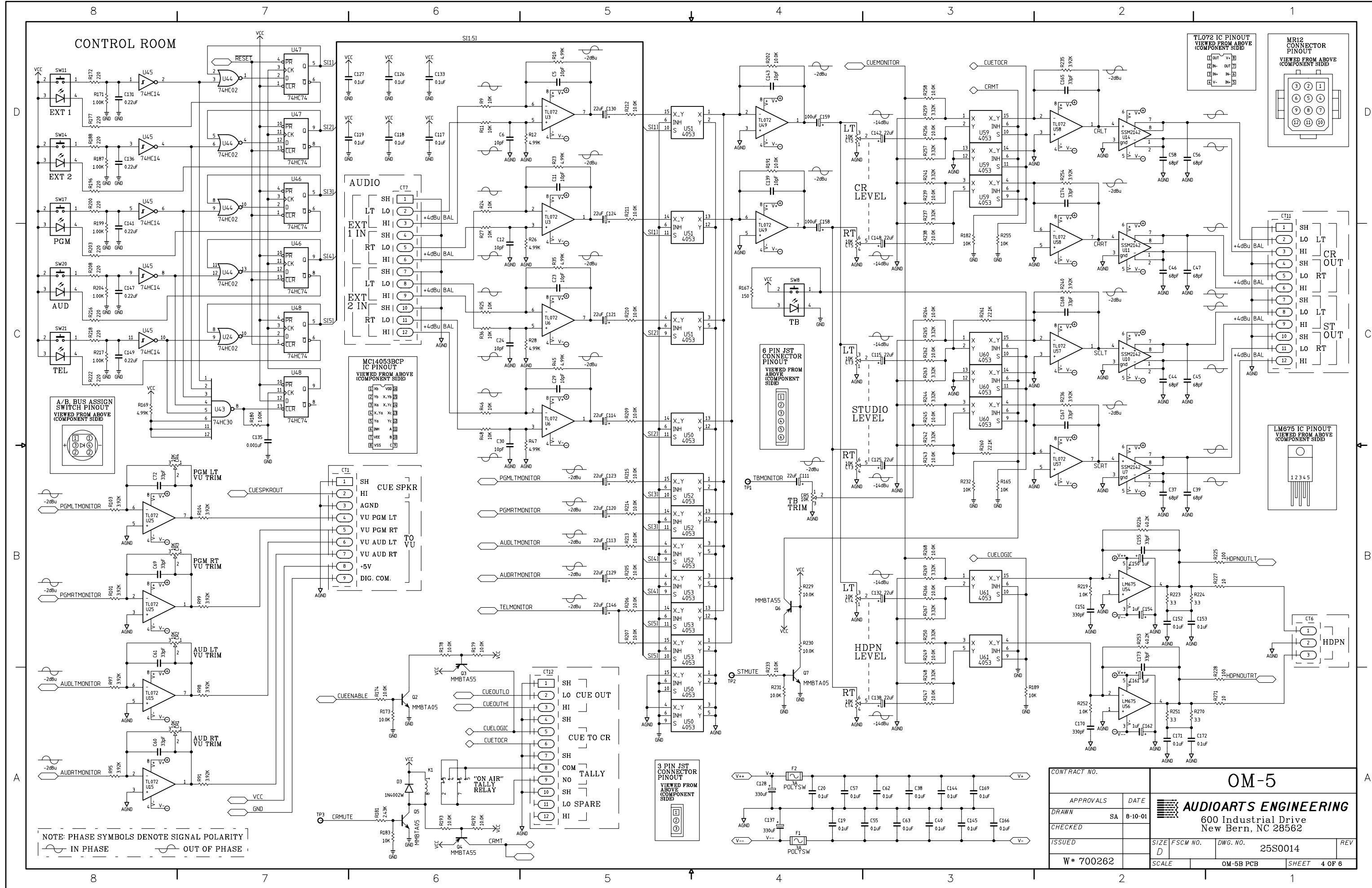


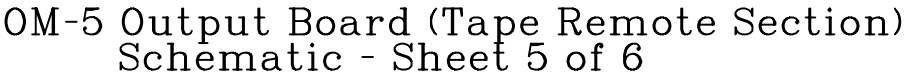
OM-5 Output Board (Line Input Section "1")
Schematic - Sheet 2 of 6

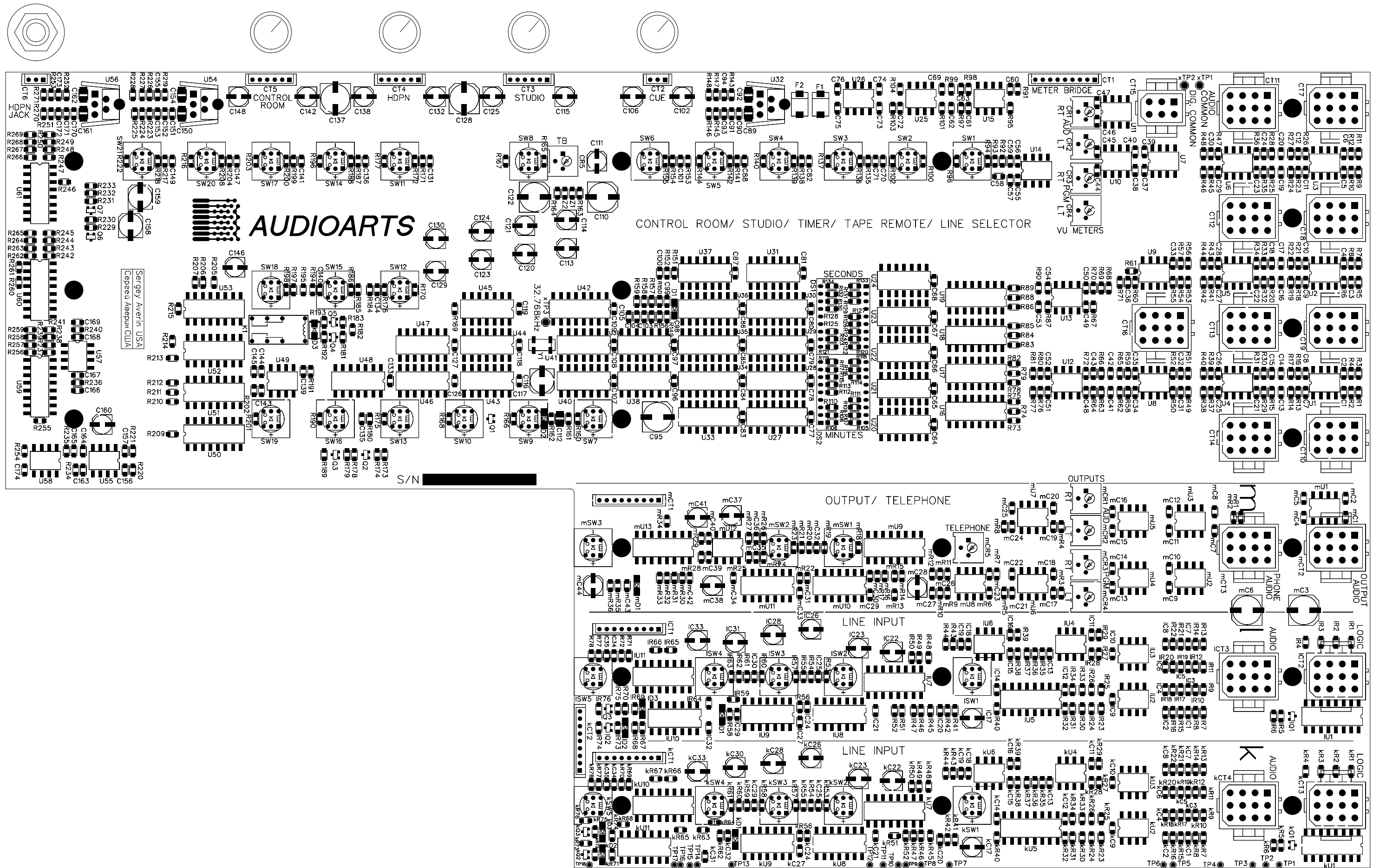
CONTRACT NO.		OM-5	
APPROVALS	DATE	 AUDIOARTS ENGINEERING 600 Industrial Drive New Bern, NC 28562	
DRAWN	SA 8-10-01		
CHECKED		SIZE	FSCM NO.
ISSUED		D	DWG. NO. 25S0012
W# 700262		SCALE	OM-5B PCB
		SHEET 2 OF 6	



OM-5 Output Board (Phone/Output Section "m")
Schematic - Sheet 3 of 6





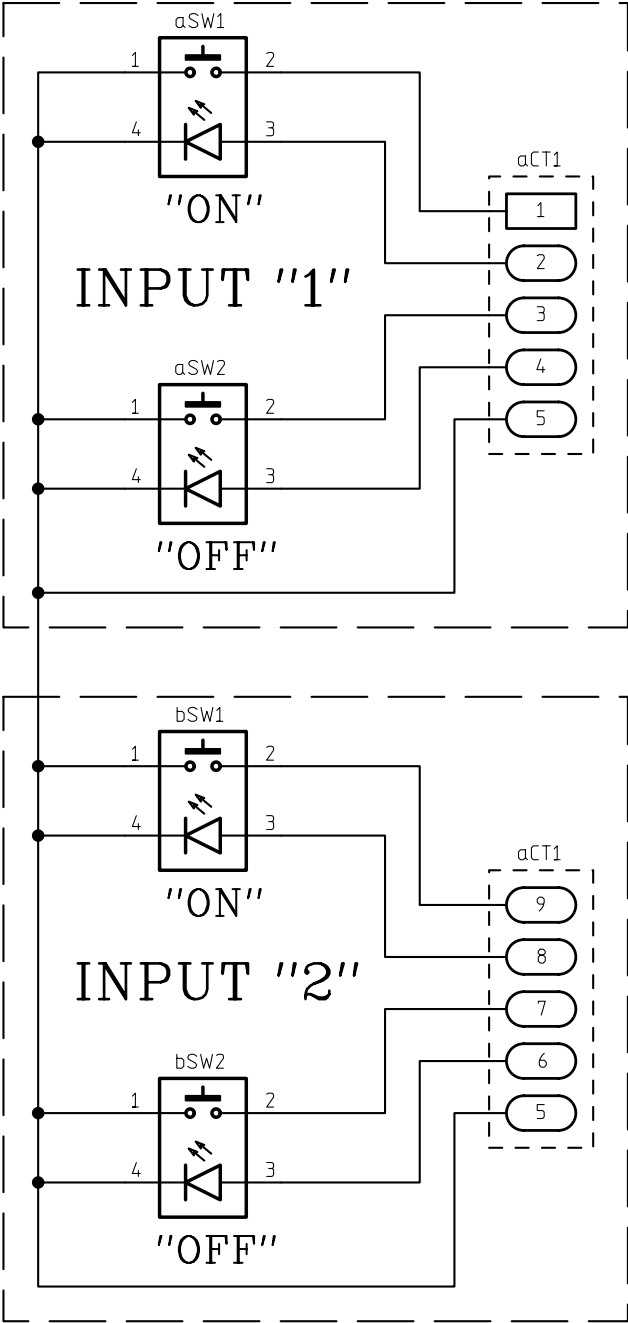


W #	part name	description	# in each unit
220014	CONN_PC_MT_12_PIN	12 PIN PC MOUNT CONNECTOR	15
230025	CONN_6_PIN_MR_PC_M	6 PIN PC MOUNT MR CONNECTOR	1
245001	SOCKET_SMT_JS8_PIN	8 PIN .3" DIP SMT SOCKET	38
245002	SOCKET_SMT_JS14_PIN	14 PIN .3" DIP SMT SOCKET	25
245003	SOCKET_SMT_JS16_PIN	16 PIN .3" DIP SMT SOCKET	30
250062	HEADER_3_PIN_JST	3 PIN .098" HEADER	2
250065	HEADER_6_PIN_JST	6 PIN .098" HEADER	3
250066	HEADER_9_PIN_JST	9 PIN .098" HEADER	5
300012	Q74HC00_TTL	74HC00	1
300013	Q74HC02_TTL	74HC02	3
300015	Q74HC08_TTL_DAMS	74HC08	1
300028	Q74HC30_TTL	74HC30	2
300035	Q74HC74_TTL	74HC74	7
300046	Q74LS74	74LS74	8
300053	Q74HC14_TTL	74HC14	3
300054	Q74HC4060_TTL	74HC4060 TTL	1
300055	Q74HC4511_TTL	74HC4511 TTL	4
300056	Q74HC192_TTL	74HC192 TTL	4
320004	Q2142_IC	2142 BALANCED LINE DRIVER IC	10
320006	QTL072	TL072 DUAL BIFET OP-AMP	26
320007	QLM675_IC	LM675 POWER OP AMP	3
320008	QNE5532	NE5532 DUAL OP-AMP	2
340020	QLH1522AB	LH1522AB DUAL FET OPTO COUPLER	2
340021	QPS2502-2	8 PIN DUAL OPTO COUPLER	2
345001	QMMBTA05_SMT	MMBTA05 NPN SMT TRANSISTOR	3
345002	QMMBTA55_SMT	MMBTA55 PNP SMT TRANSISTOR	10
355001	Q1N4002W_SMT_DIODE	1N4002W RECTIFYING 1AMP SMT	1
355002	QC5V1_SMT_ZENER_DI	5.1V SMT ZENER DIODE C5V1	2
355003	Q1N4148_SMT_DIODE	1N4148 FAST SWITCHING SMT DIODE	9

OM-5 Output Board Parts List – Sheet 1 of 3
(PCB is Wheatstone P/N 002541)

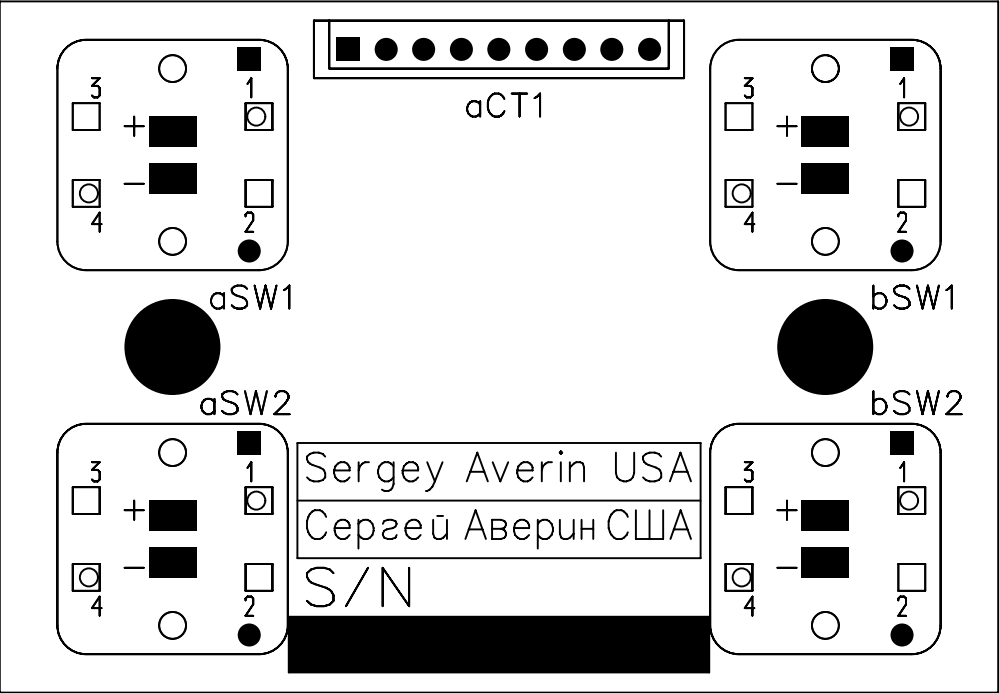
W#	part name	description	# in each unit
375007	CRYSTAL_32.768KHZ_S	32.768KHZ CRYSTAL	1
380003	Q14053BCP	14053BCP	19
405002	CP22UF_25V_SMT	CAPACITOR, 22 μ F 25V ELECTROLYTIC	38
405003	CP100UF_25V_SMT	CAPACITOR, 100 μ F 25V	3
405004	CP330UF_25V_SMT	CAPACITOR, 330 μ F 25V	7
405005	CP1UF_35V_TANT_SMT	CAPACITOR, 1 μ F 35V ELECTROLYTIC	7
415001	CP10P_CER_SMT	CAPACITOR, 10pF 100V CERAMIC SMT	77
415002	CP33P_CER_SMT	CAPACITOR, 33pF 100V CERAMIC SMT	11
415003	CP68P_CER_SMT	CAPACITOR, 68pF 100V CERAMIC SMT	20
415004	CP330P_CER_SMT	CAPACITOR, 330pF 100V CERAMIC	3
415005	CP.001UF_CER_SMT	CAPACITOR, .001 μ F 50V CERAMIC SMT	4
415007	CP.1UF_CER_SMT	CAPACITOR, .1 μ F 50V CERAMIC SMT	88
415009	CP.22UF_CER_SMT	CAPACITOR, .22 μ F 50V CERAMIC SMT	30
435001	RESISTOR_3.3 Ω _SMT_1	3.3 OHM 5% .25W MC1206 RESISTOR	6
435002	RESISTOR_10 Ω _SMT_12	10 OHM 5% .25W MC1206 RESISTOR	9
435007	RESISTOR_100 Ω _SMT_1	100 OHM 5% .25W MC1206 RESISTOR	13
435008	RESISTOR_150 Ω _SMT_1	150 OHM 5% .25W MC1206 RESISTOR	1
435009	RESISTOR_220 Ω _SMT_1	220 OHM 5% .25W MC1206 RESISTOR	33
435010	RESISTOR_332 Ω _SMT_1	332 OHM 1% .25W MC1206 RESISTOR	11
435011	RESISTOR_475 Ω _SMT_1	475 OHM 1% .25W MC1206 RESISTOR	49
435013	RESISTOR_619 Ω _SMT_1	619 OHM 1% .25W MC1206 RESISTOR	4
435015	RESISTOR_1.00K_SMT_	1.00 KOHM 1% .25W MC1206	40
435016	RESISTOR_1.30K_SMT_	1.30 KOHM 1% .25W MC1206	2
435020	RESISTOR_2.43K_SMT_	2.43 KOHM 1% .25W MC1206	5
435021	RESISTOR_3.32K_SMT_	3.32 KOHM 1% .25W MC1206	24
435022	RESISTOR_3.92K_SMT_	3.92 KOHM 1% .25W MC1206	22
435023	RESISTOR_4.99K_SMT_	4.99 KOHM 1% .25W MC1206	71
435028	RESISTOR_10.0K_SMT_	10.0 KOHM 1% .25W MC1206	137
435034	RESISTOR_20.0K_SMT_	20.0 KOHM 1% .25W MC1206	8

W #	part name	description	# in each unit
435036	RESISTOR_22.1K_SMT_	22.1 KOHM 1% .25W MC1206	7
435037	RESISTOR_26.7K_SMT_	26.7 KOHM 1% .25W MC1206	2
435039	RESISTOR_40.2K_SMT_	40.2 KOHM 1% .25W MC1206	10
435043	RESISTOR_88.7K_SMT_	88.7 KOHM 1% .25W MC1206	5
435047	RESISTOR_330K_SMT_1	330 KOHM 5% .25W MC1206 RESISTOR	1
435050	RESISTOR_10M_SMT_12	10 MOHM 5% .25W MC1206 RESISTOR	3
500017	POT_TRIM_HOR_10K	10K TRIM POT	10
510106	SWITCH_R5_RED	SINGLE POLE MOMENTARY SWITCH	19
510107	SWITCH_R5_GRN	SINGLE POLE MOMENTARY SWITCH	15
510111	SWITCH_R5_MOUNT_FR	SINGLE POLE MOMENTARY SW	34
530094	BUTTON_R5_RED	LTM-LTR TYPE SWITCH DIFFUSER RED	5
530095	BUTTON_R5_GRN	LTM-LTR TYPE SWITCH DIFFUSER	15
530096	BUTTON_R5_YLW	LTM-LTR TYPE SWITCH DIFFUSER	14
550006	RELAY_NEC_5V	DPDT RELAY,5V	1
610003	DISPLAY_DUAL_CLOCK	DUAL DIGIT LED DISPLAY	2
700262	PCB_OM5	PRINTED CIRCUIT BOARD SMT	1
825010	HEATSINK_LM675_W/PIN	HEATSINK FOR T-220 WITH MOUNTING	3
835001	FUSE_.3AMP_SMT_POL	FUSE/ POLY SWITCH .3AMP SMT	2



CONTRACT NO.		SW-R5			
APPROVALS	DATE	 AUDIOARTS ENGINEERING 600 Industrial Drive New Bern, NC 28562			
DRAWN SA	10-4-99				
CHECKED	SA	SIZE	FSCM NO.	DWG. NO.	REV
ISSUED	SA	A		14S002X	A
W# 700264		SCALE	SW-R5A PCB	SHEET	1 OF 1

SW-R5 Switch Card Schematic -
Sheet 1 of 1



SW-R5 PARTS LIST			
COMPONENT NO.	DESCRIPTION	QTY	WS P / N
CT1	9 PIN .098" HEADER	1	250066
aSW1, aSW2, bSW1, bSW2	SWITCH ON/OFF	4	530097
ON SWITCH CAP	CAP_R5_ON_RED	2	530097
OFF SWITCH CAP	CAP_R5_OFF_ORG	2	530098
ON SWITCH LED	LED_ON/OFF_SWITCH_RED	2	600027
OFF SWITCH LED	LED_ON/OFF_SWITCH_YELLOW	1	600031
PRINTED CIRCUIT BOARD	PCB_SWR5A	1	160035

SW-R5 Switch Card Parts List
(PCB is Wheatstone P/N 002542)

R-5 CONSOLE PARTS LIST			
COMPONENT NO.	DESCRIPTION	QTY	WS P / N
	ASSEMBLED CONSOLE FRAME	1	002560
	OWNER'S MANUAL FOR R5 CONSOLE	1	002599
	R60 POWER SUPPLY	1	007010
	R5 POWER SUPPLY CABLE	1	007019
	1 1/4" FOAM PACKAGING CORNERS	4	130040
	SET OF 2, RIGHT & LEFT, R5 END CAPS	1	130178
	23 1/4" X 17 1/2" X 7 1/16" OUTER BOX	1	160000
	19 7/8" X 4" 1/16 X 14" POWER SUPPLY	1	160014
	34 1/2" X 25" X 11 7/8" 275#BC DOUBLE WALL BOX	1	160035

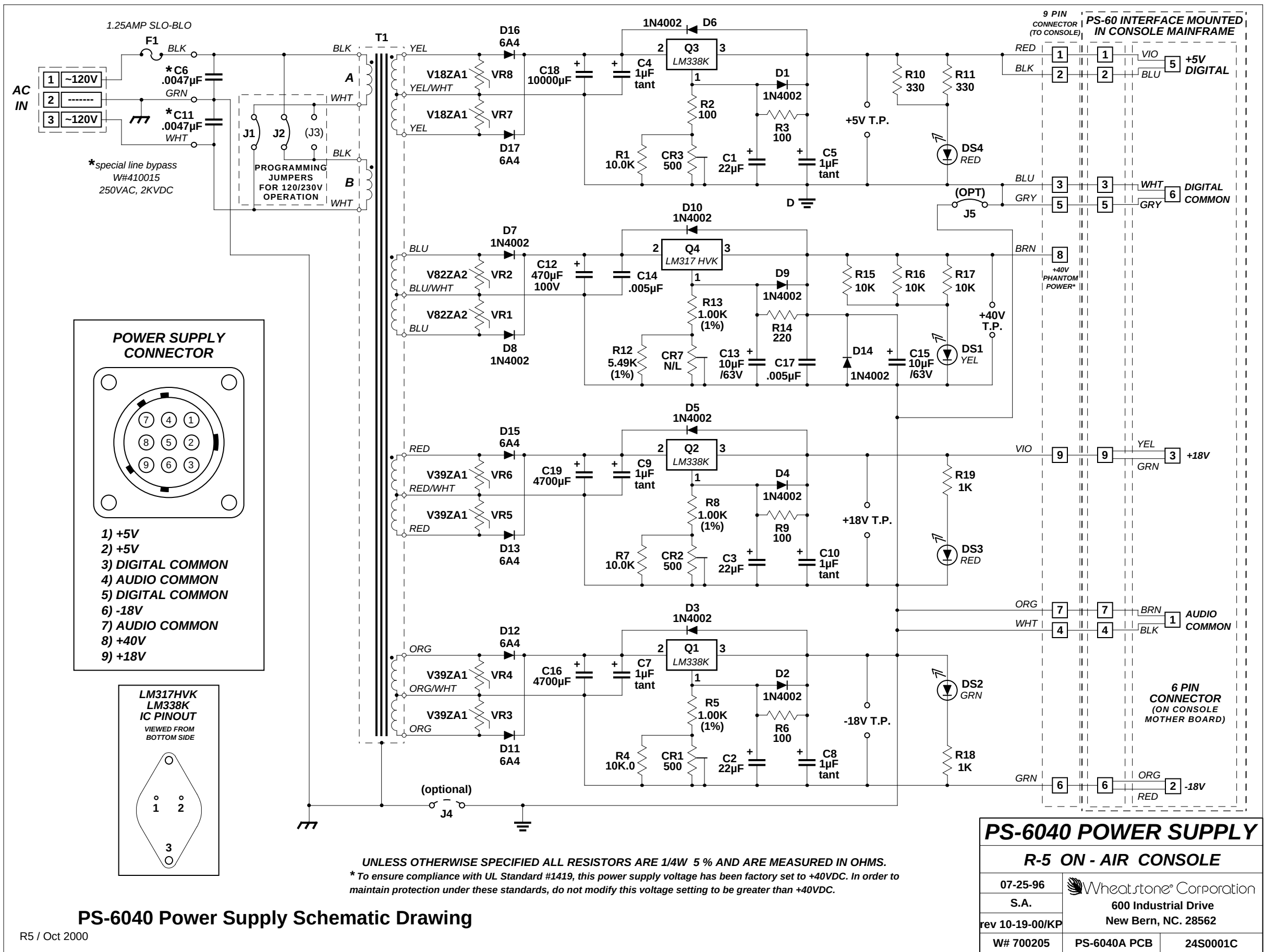
R-5 Console Parts List
(PCB is Wheatstone P/N 002590)

R-5 FRAME PARTS LIST			
COMPONENT NO.	DESCRIPTION	QTY	WS P / N
	1.25 X 4 RED CLOCK PLEXI	1	002463
	MB5 LOADED INPUT SECTION CARD	1	002540
	OM5 LOADED OUTPUT SECTION CARD	1	002541
	SWR5 LOADED SWITCH CARD	6	002542
	FRAME FACE, PAINTED AND SCREENED	1	002570
	MB FACE, PAINTED AND SCREENED	1	002571
	MB REAR, PAINTED	1	002572
	CONSOLE BOTTOM PANEL, PAINTED	1	002573
	R5 SUPPORT BRACKET	1	002575
	R5 SPEAKER BRACKET	1	002576
	R5 ARMREST SUPPORT BRACKET	2	002577
	CONNECTOR KIT FOR R5	1	002595
	OAK SIDEPLATE LEFT	1	100049
	OAK SIDEPLATE RIGHT	1	100050
	30" OAK ARMREST	1	100054
	ALUMINUM CONTINUOUS HINGE, 72"X1.06"X.040"	.5	110024
	UNSHIELDED WIRE	16	150000
	26 COND FLAT RIBBON CABLE	5	150083
	CABLE MOUNT MULTI-PIN CONNECTOR	1	230010
	MULTI-PIN CONNECTOR STRAIN RELIEF	1	230012
	MULTIMATE SOCKET CONTACT (LOOSE PACK)	5	230014
	6 PIN CABLE MOUNT MR PLUG	1	230026
	3 PIN .098" PLUG FOR #26 AWG	2	230028
	6 PIN .098" PLUG FOR #26 AWG	3	230031
	9 PIN .098" PLUG FOR #26 AWG	26	230032

R-5 Frame Parts List – Sheet 1 of 2
(PCB is Wheatstone P/N 002560)

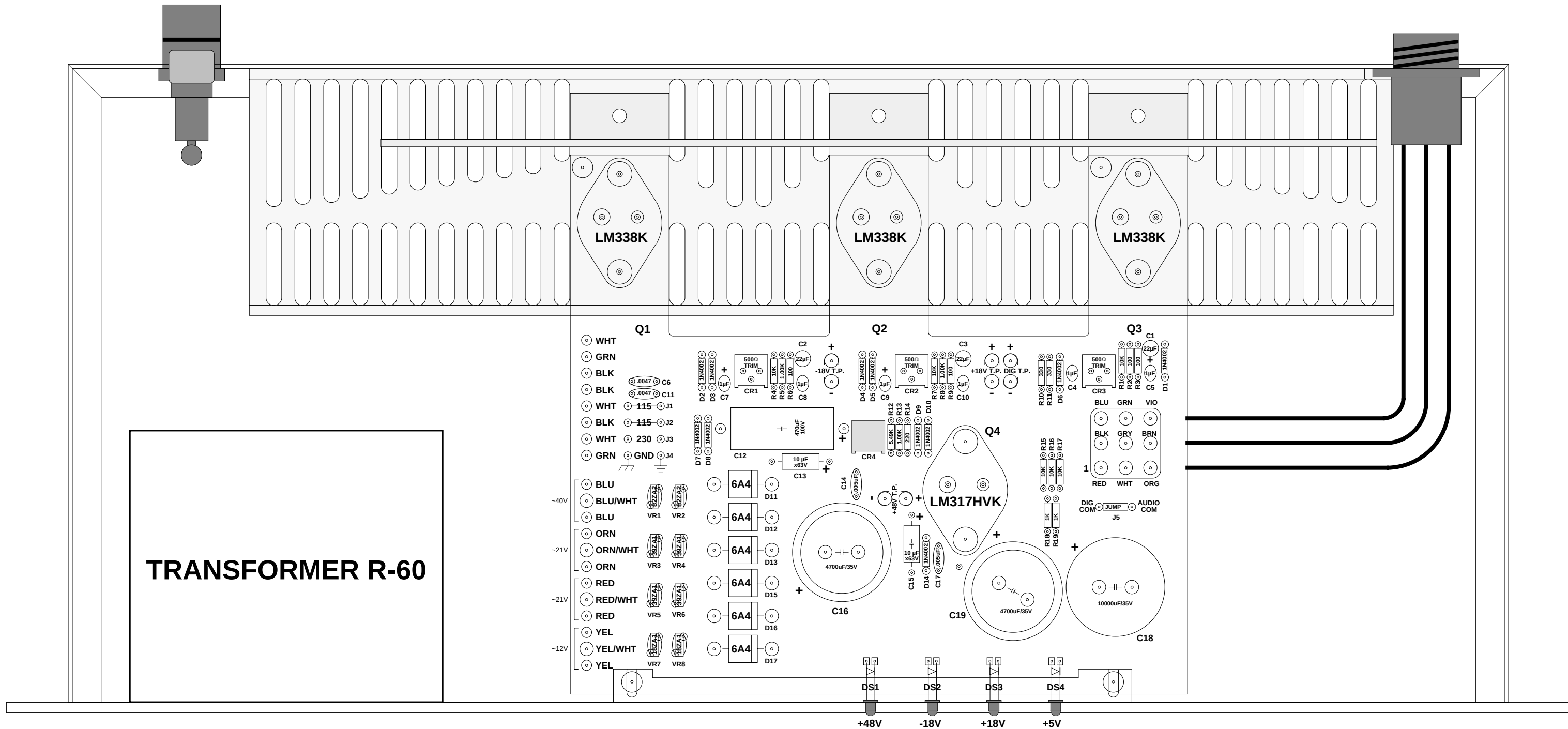
R-5 FRAME PARTS LIST			
COMPONENT NO.	DESCRIPTION	QTY	WS P / N
	20 POSITION SNAP APART SOCKET, .1" SIL	2	250014
	RTS JACK	1	260005
	PATCH CLIP	1	280004
	PATCH CLIP	8	280007
"CUE"/"HDPN"/"STUDIO"/"CR" POT	10K POT, DUAL AUDIO	4	500029
"CUE"/"HDPN"/"STUDIO"/"CR" KNOB	15mm GREY COLLET KNOB FOR 1/4" SHAFT	4	520038
FADER KNOB	WHITE FADER KNOB WITH BLACK LINE	10	520051
FADER KNOB	BLUE FADER KNOB WITH WHITE LINE	3	520052
"HDPN" CAP	11mm BLUE/105 CAP W/BLACK LINE FOR 15mm KNOB	1	530043
"CUE" CAP	11mm BLUE CAP W/WHITE LINE FOR 15mm KNOB	1	530045
"STUDIO" CAP	PASTEL GREEN CAP W/BLACK LINE FOR 15mm KNOB	1	530079
"CR" CAP	CREAM CAP W/BLACK LINE FOR 15mm KNOB	1	530080
FADER	10K SINGLE AUDIO TAPER SELMARK CARBON FADER 100mm	3	540027
FADER	10K DUAL AUDIO TAPER SELMARK CARBON FADER 100mm	10	540028
	VU METER	4	630004
	6V LIGHT BOX FOR AL29 METER	4	630007
	FLAT WASHER	1	822007
	SHOULDER WASHER	1	822008
	#6 THUMB SCREW	2	823029
	METER TERMINAL	8	826001
	SPEAKER	1	960000

R-5 Frame Parts List – Sheet 2 of 2
(PCB is Wheatstone P/N 002560)



PS-6040 Power Supply Schematic Drawing

R5 / Oct 2000



100Ω
220Ω
1.00K
5.49K
10.0K

} 1%

WHEATSTONE CORP.
PS-6040A
LOAD SHEET
24L0014A

PARTS LIST — POWER SUPPLY

COMPONENT NO.	DESCRIPTION	QTY	WS P/N
	PS-60 FACEPLATE	1	007074
	PS-60 CHASSIS	1	007075
	PS-60 COVER	2	007076
	PS-60 HEATSINK, SLOTTED	1	007077
	PS-60 CARD BRACKET	1	007078
	PS-60 HEATSINK FIN	1	007084
	CORD, GRAY POWER	1	150016
	CABLE, PS BLACK, 14/22 AWG	16	150085
	GROUND LUG	1	230003
	CONNECTOR, CABLE MOUNT MULTI-PIN	2	230010
	CONNECTOR, CHASSIS MOUNT MULTI-PIN	1	230011
	STRAIN RELIEF, MULTI-PIN CONNECTOR	2	230012
	PINS, MIL CABLE, FEMALE	18	230014
	PINS, MIL CABLE, MALE	9	230015
	PATCH CLIPS	1	280000
Q4	REG, LM317HV, POSITIVE ADJUSTABLE	1	330012
Q1-Q3	REG, LM338, POSITIVE ADJUSTABLE	3	330014
D1-D10, D14	DIODE, 1N4002	11	350003
D11-D13, D15-D17	DIODE, POWER , CR6A4	6	350009
VR7, VR8	VARISTOR, 18ZA1	2	360000
VR3-VR6	VARISTOR, 39ZA1	4	360002
VR1, VR2	VARISTOR, 82ZA2	2	360005
C18	CAPACITOR, 10000µF 35V ELECTROLYTIC	1	400006
C13, C15	CAPACITOR, 10µF 63V ELECTROLYTIC	2	400012
C4, C5, C7-C10	CAPACITOR, 1µF 35V TANTALUM ORANGE	6	400014
C1-C3	CAPACITOR, 22µF 25V ELECTROLYTIC	3	400017
C16, C19	CAPACITOR, 4700µF 35V ELECTROLYTIC	2	400019
C12	CAPACITOR, 470UF 100V AXIAL LEAD UL APPROVED ELECTROLYTIC	1	400031
C6, C11, C14, C17	CAPACITOR, .0047µF 1KV CERAMIC, UL RATED	4	410015

PS-6040 Power Supply Parts List - Sheet 1 of 2 (PCB is Wheatstone P/N 007118)

PARTS LIST — POWER SUPPLY			
COMPONENT NO.	DESCRIPTION	QTY	WS P/N
R5, R8 ,R13, R18, R19	RESISTOR, 1.0K, PRECISION	5	430107
R12	RESISTOR, 5.49K, PRECISION	1	430140
R1, R4, R7, R15-R17	RESISTOR, 10.0K, PRECISION	6	430153
R2, R3, R6, R9	RESISTOR, 100Ω, CARBON	4	430212
R14	RESISTOR, 220Ω, CARBON	1	430214
R10, R11	RESISTOR, 330Ω, CARBON	2	430215
CR1-CR3	POT, TRIM HOR 500Ω	3	500019
DS1-DS4	LED, ROUND, RL209	4	600017
	PRINTED CIRCUIT BOARD, PS6040	1	700205
	TRANSFORMER, POWER	1	800005
	SCR, 1032X3/4, HEX SHCS	4	820007
	SCR, 440X1/4, PH PAN	2	820016
	SCR, 440X3/8, PH PAN	18	820021
	SCR, 632X3/8, HEX SOCKET	6	820034
	SCR, 632X3/8, PH PAN S/S	7	820035
	NUT, KEP #4	18	821005
	NUT, KEP #6, SMALL PATTERN	10	821006
	NUT, KEP, ZINC 10	4	821008
	NUT, PEM	2	821009
	STUD, PEM, PS60 LUG	1	821013
	GROMMET, RUBBER 742	4	824005
	STRAIN RELIEF	1	824009
	INSULATOR, MICA	3	825008
	FUSE_1.25_AMP	1	830053
	FUSE HOLDER	1	830010

PS-6040 Power Supply Parts List - Sheet 2 of 2
(PCB is Wheatstone P/N 007118)