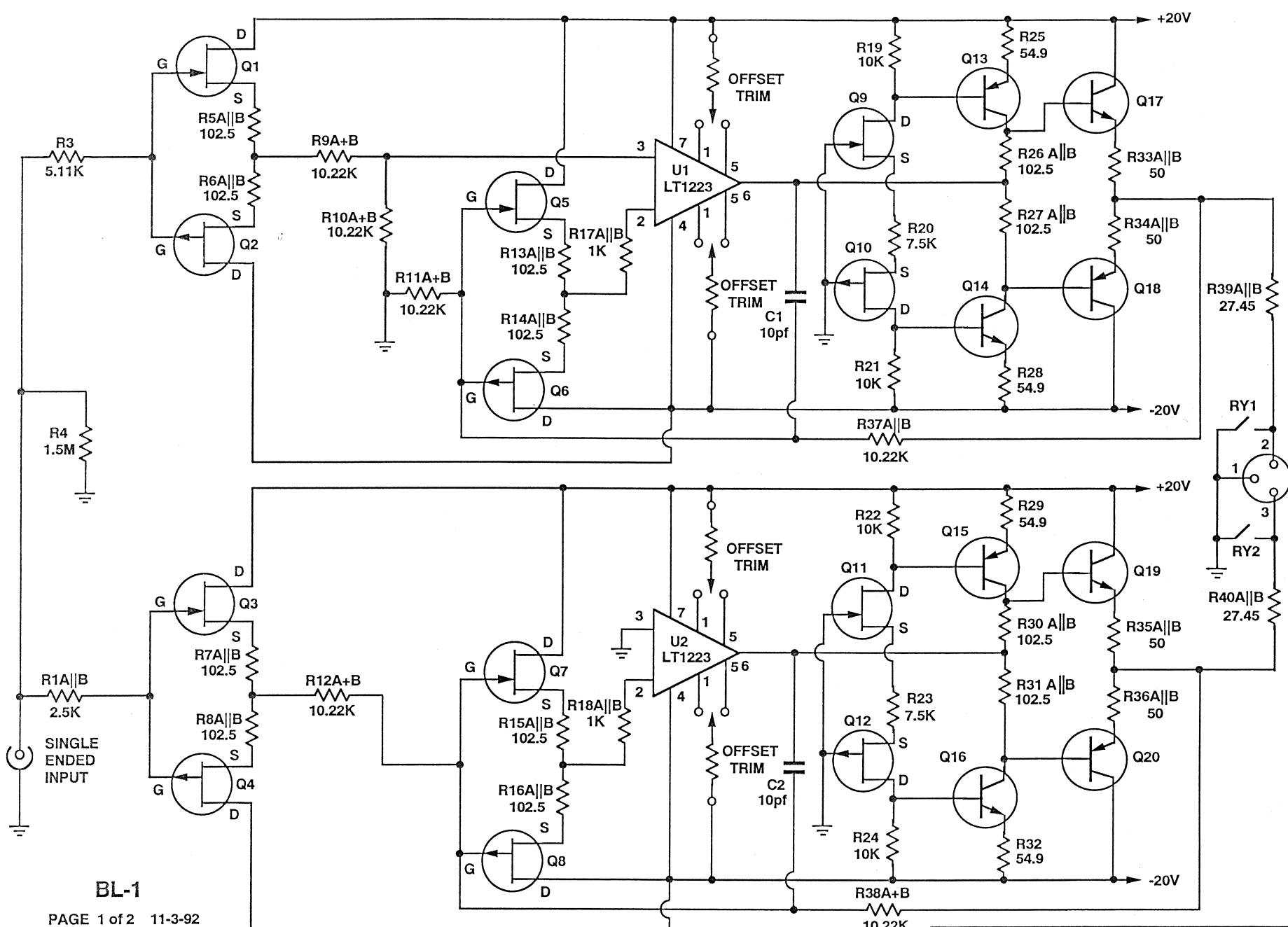


**audio research**  
HIGH DEFINITION®

5740 GREEN CIRCLE DRIVE / MINNETONKA, MINNESOTA 55343-4424 / PHONE 612/939-0600 FAX 612/939-0604

BL1 SCHEMATIC

11-3-92



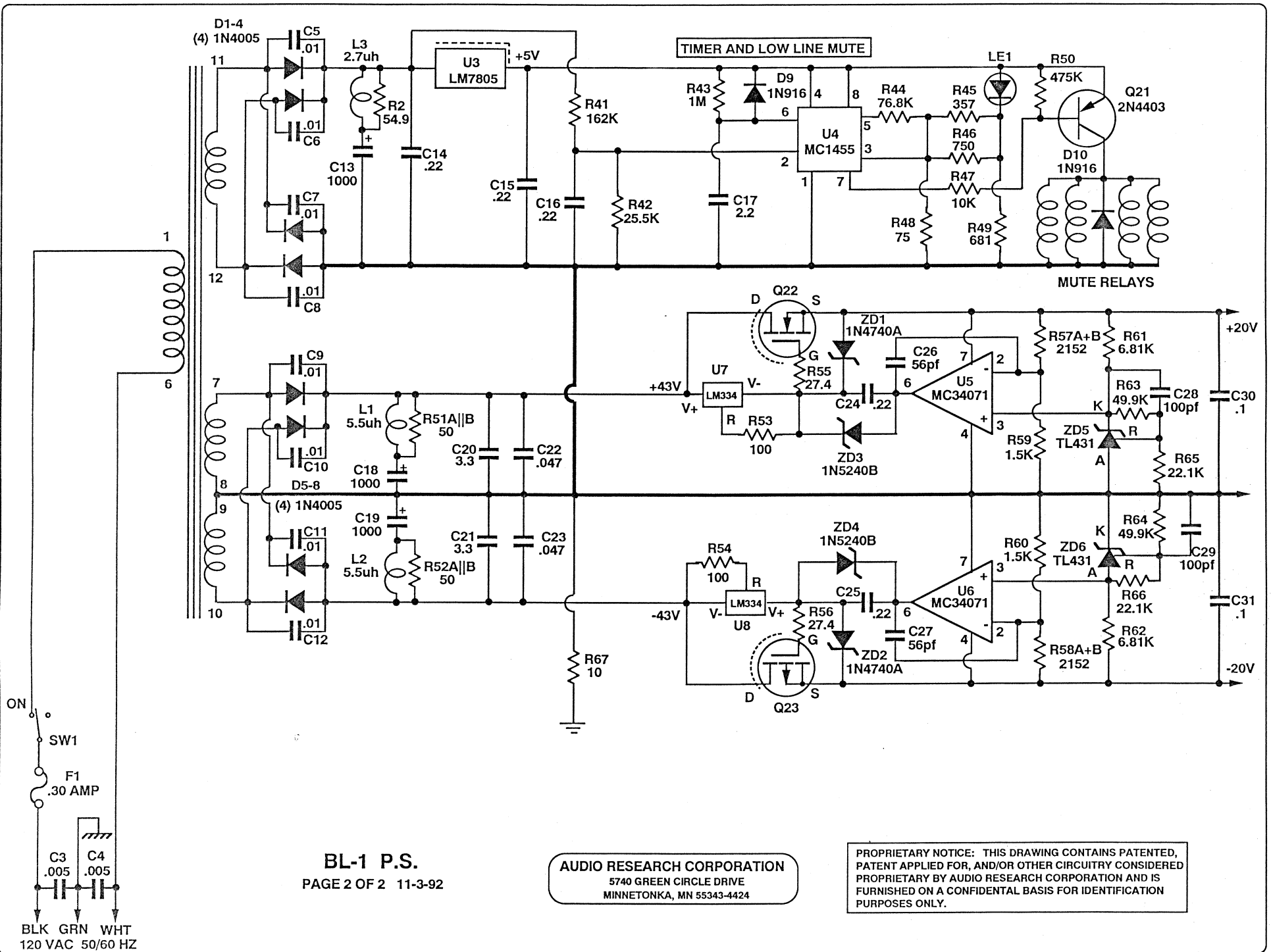
BL-1

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AUDIO RESEARCH CORPORATION

5740 GREEN CIRCLE DRIVE  
MINNETONKA, MN 55343-0604

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## PARTS LIST

As of DEC 15 97

PRODUCT: BL1

NOTES: REVISION 6 CHANGED ON 2/21/96 PER ECN #95012

Schematic Symbol	Quantity	ARC Part #	Description
C CAPACITORS			
C 1,2	4	53100101	CAP., 10pf ±1pf 630V PPN
C 3,4	2	52500300	CAP., .005µF 300VAC/2000V ±20%
C 5,6,7,8,9,10,11,12	8	52100400	CAP., .01µf 200V ±10%
C 13	1	50100911	CAP., 1000µF 35V "LYTIC"
C 14,15,16,24,25	5	53220507	CAP., .22µf ±10% 160V
C 16	1	51220601	CAP., 2.2µF 25V ±20% DIP TANT.
C 18,19	2	50100908	CAP., 1000µF 63V
C 20,21	2	53330602	CAP., 3.3µf ±10% 160V
C 22,23	2	53470402	CAP., 0.047µf ±10% 160V
C 26,27	2	53560103	CAP., 56pf ± 2.5% 630V PPN
C 28,29	2	53100202	CAP. 100pf ±2.5% 630V PPN
C 30,31	2	53100506	CAP., 0.1µf ±10% 160V
D DIODES			
D 1-8	8	30500400	IN4005
D 9,10	2	30500910	1N916B
F FUSES			
F 1	1	34500202	(B)FUSE, 1/2 AMP AGC BUSSMAN
L INDUCTORS			
L 1,2	2	61000170	CHOKE, 5.5µh .67Ω max
L 3	1	61000160	CHOKE, 2.7µH ±10%
LE PANEL INDICATOR			
LE 1	1	34300102	L.E.D., COLLAR & RET. RING
Q TRANSISTORS			
Q 2,4,6,8	12	30006406	FET, BLUE BLUE/GRADE
Q 13,15	4	30003000	TRANSISTOR, 2N5087 PNP
Q 14,16	4	30003100	TRANSIST., 2N5088, 2N5209, 2N5210
Q 17,19	4	30010100	TRANSISTOR, 2SC4793
Q 18,20	4	30010000	TRANSISTOR, 2SA1837
Q 21	1	30002900	TRANSISTOR, 2N4403
Q 22	1	30006761	FET, ORANGE YELLOW BROWN
Q 23	1	30007029	FET, GRAY WHITE
R RESISTORS			
R 1A,3	6	42511313	RES., 5.11KΩ MK-4 1% 50PPM
R 2,53,54	11	42549103	RES., 54.9Ω MK-3 1% 50PPM
R 4	2	42150613	RES., 1.5 MEG MK-4 1% 50PPM
R 5AB,6AB,7AB,8AB,13AB,14AB,15AB,16AB	48	42205203	RES., 205Ω MK-3 1% 50PPM
R 26AB,27AB,30AB,31AB			
R 9AB,10AB,11AB,12AB,37AB,38AB	24	42511303	RES., 5.11KΩ MK-3 1% 50PPM
R 17A,17B,18A,18B	8	42200303	RES., 2KΩ MK-3 1% 50PPM
R 19,21,22,24	8	42110403	RES., 11KΩ MK-3 1% 50PPM
R 20,23	4	42XXXX03	(B)RES., MK-3 TRIM VALUE
R 29A,29B,30A,30B,33A,33B,34A,34B,51A	21	42100203	RES., 100Ω MK-3 1% 50PPM
R 51B,52A,52B			
R 40	9	42750103	RES., 75Ω MK-3 1% 50PPM
R 41	1	42162503	RES., 162KΩ MK-3 1% 50PPM

## PARTS LIST

As of DEC 15 97

PRODUCT: BL1

NOTES: REVISION 6 CHANGED ON 2/21/96 PER ECN #95012

Schematic Symbol	Quantity	ARC Part #	Description
R 42	1	42255403	RES., 25.5K $\Omega$ MK-3 1% 50PPM
R 43	1	42100603	RES., 1 MEG MK-3 1% 50PPM
R 44	1	42768403	RES., 76.8K $\Omega$ MK-3 1% 50PPM
R 45	1	42357203	RES., 357 $\Omega$ MK-3 1% 50PPM
R 46	1	42750203	RES., 750 $\Omega$ MK-3 1% 50PPM
R 47	1	42100403	RES., 10K $\Omega$ MK-3 1% 50PPM
R 49	1	42681203	RES., 681 $\Omega$ MK-3 1% 50PPM
R 50	1	42475503	RES., 475K $\Omega$ MK-3 1% 50PPM
R 55,56	2	42274103	RES., 27.4 $\Omega$ MK-3 1% 50PPM
R 57,58	2	42182303	RES., 1.82K $\Omega$ MK-3 1% 50PPM
R 57,58	2	42332203	RES., 332 $\Omega$ MK-3 1% 50PPM
R 59,60	2	42150303	RES., 1.50K $\Omega$ MK-3 1% 50PPM
R 61,62	2	42681303	RES., 6.81K $\Omega$ MK-3 1% 50PPM
R 63,64	2	42499403	RES., 49.9K $\Omega$ MK-3 1% 50PPM
R 65,66	2	42221403	RES., 22.1K $\Omega$ MK-3 1% 50PPM
R 67	1	42100103	RES., 10 $\Omega$ MK-3 1% 50PPM
		RY	RELAYS
RY 1,2	4	64101010	RELAY, 5 VDC 500 $\Omega$ COIL
		U	INTEGRATED CIRCUITS
U 1,2	4	31004300	CURRENT FEEDBACK AMP. 100Mhz
U 3	1	31002910	REGULATOR, IC 5V
U 4	1	31000800	TIMER, NE555N
U 5,6	2	31002210	OP-AMP, OP176GP
U 7,8	2	31004100	CURRENT SOURCE, ADJ. 3-TERM.
		ZD	ZENER DIODES
ZD 1,2	2	30500300	IN4740A
ZD 3,4	2	30504400	IN5240B
ZD 5,6	2	31002600	DIODE, ZENER TL431CLP