

TEST POINTS	VOLTAGE	TEST POINTS	VOLTAGE
1	+20V TO +28V DC	26	1.88VAC
2	-20V TO -28V DC	27	0.082VAC
3	+15VDC	28	2.0VAC
4	-15VDC	29	2.0VAC
5	+45VDC PHANTOM ON 0VDC PHANTOM OFF	30	8.6VAC
6	0.20VAC	31	8.6VAC
7	0.20VAC	32	1.9VDC
8	*0.095VAC	33	1.9VDC
9	*0.095VAC	34	0.0VAC
10	*0.095VAC	35	0.077VAC
11	*0.095VAC	36	0.435VAC
12	**0.085VAC	37	0.0VAC
13	**0.085VAC	38	0.077VAC
14	**0.085VAC	39	0.435VAC
15	**0.085VAC	40	12.7VDC
16	**0.085VAC	41	1.3VDC
17	**0.085VAC		
18	0.15VAC		
19	1.0VAC		
20	0.15VAC		
21	1.0VAC		
22	0.082VAC		
23	2.0VAC		
24	2.0VAC		
25	1.88VAC		

CONDITIONS
WITH 10VAC INPUT TO POWER JACK J11, WITH SIGNAL INPUT TO MIC IN, 10kHz, 330microvolts, 200ohm source. ALL GAINS AND FADERS AT MAXIMUM SETTINGS, EQ FLAT. ALL SWITCHES IN "OUT" POSITION. ALL MEASUREMENTS -40% +60% (±4DB).
* WITH 44mv INPUT TO STEREO CHANNELS
** WITH .11mv TO TAPE L & R, AUX 1 & AUX 2 (SET TO FULL GAIN)

MIC CHANNELS (1-6)

THIS SCHEMATIC SHOWS CHANNEL 1.
ADD 100 TO EACH SUCCESSIVE
CHANNELS REFERENCE DESIGNATORS
FOR CHANNELS 2-6

*THESE COMPONENTS ARE PRESENT FOR EVERY
PAIR OF CHANNELS 1 & 2, 3 & 4, 5 & 6.

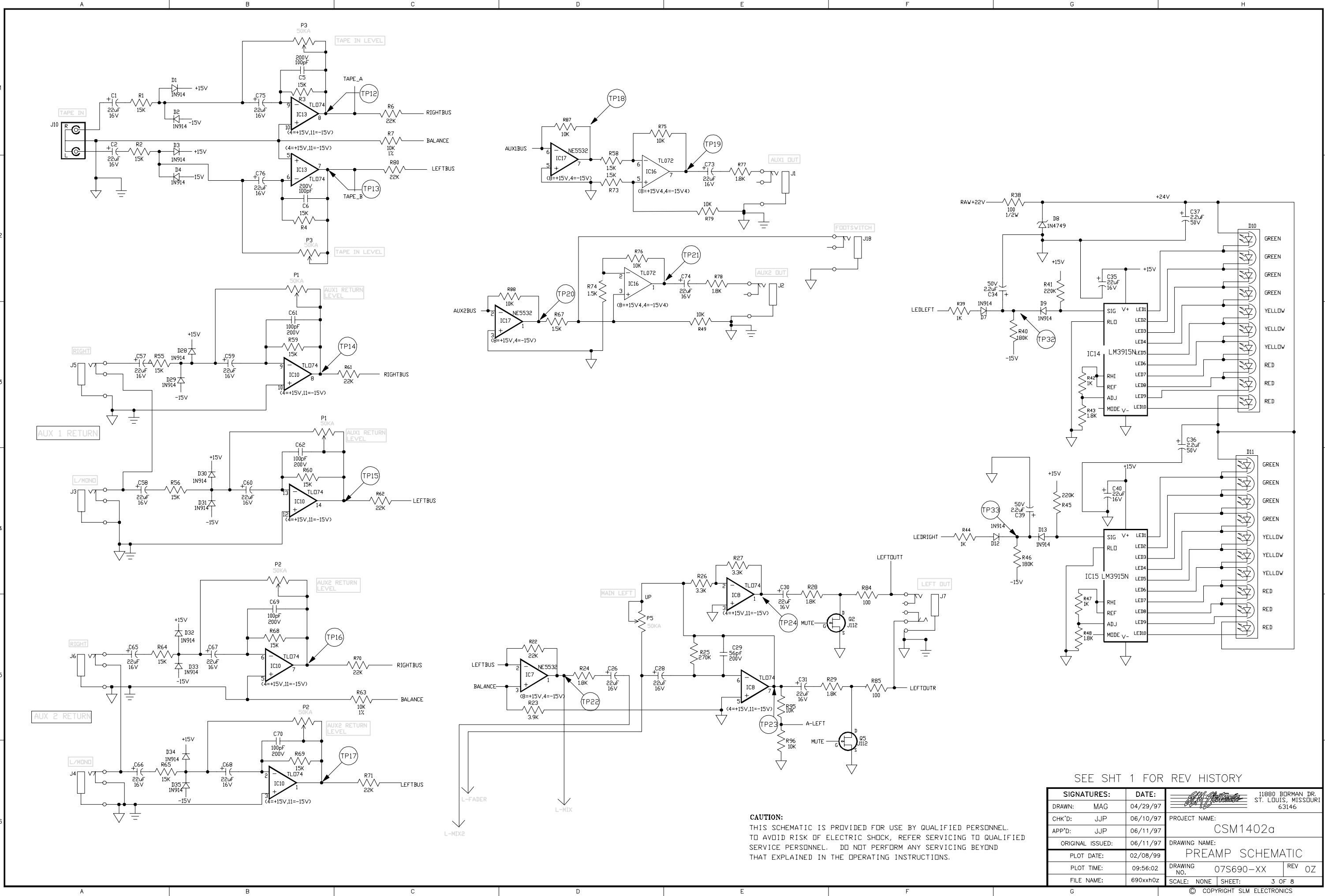
NOTES

- CAUTION: SHOCK HAZARD!!
THIS UNIT CONTAINS HAZARDOUS VOLTAGE. DISCONNECT POWER AND BE SURE POWER SUPPLY IS DISCHARGED BEFORE TOUCHING INTERNAL PARTS.
- UNLESS NOTED, RESISTOR VALUES IN OHMS, 1/4W-5% TOL. CAPACITOR VALUES IN MICROFARADS, 50V-10% TOL.
- VOLTAGES ARE MEASURED WITH 1 MEGOHM OSCILLOSCOPE AND 10 MEGOHM DIGITAL VOLTMETER.
- CHASSIS GROUND SIGNAL GROUND CIRCUIT GROUND

	2-8-99	RLB		MERGED FILES 672XX* AND 69002* TO CREATE FILE 690XX* PER ECO 990202-09
REV	DATE	BY	CHK'D	DESCRIPTION

THIS DWG SUPERSEDES 07S690-02

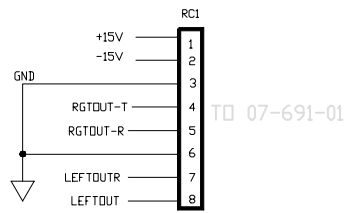
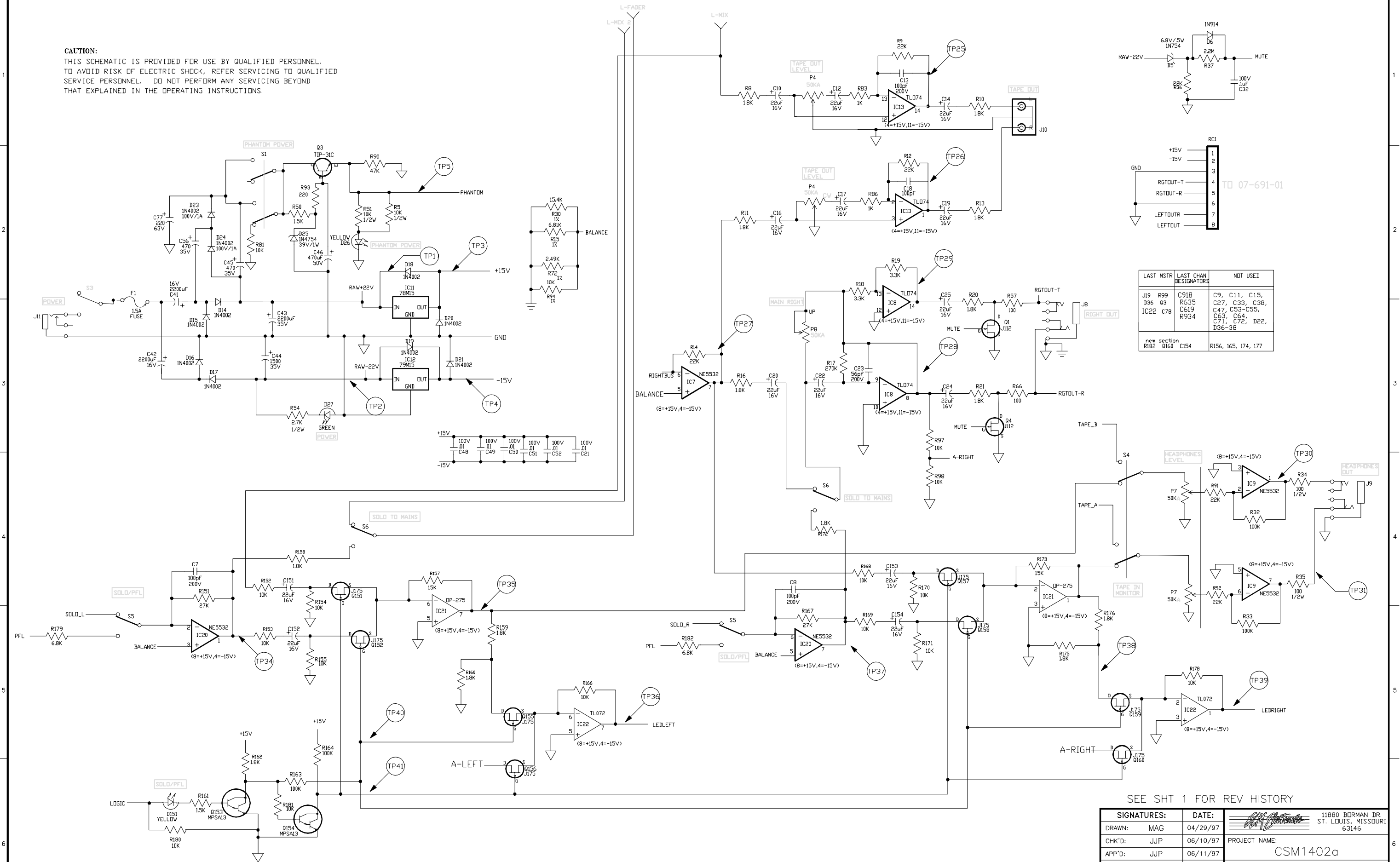
SIGNATURES:	DATE:	11880 BORMAN DR. ST. LOUIS, MISSOURI 63146
DRAWN: MAG	04/29/97	PROJECT NAME:
CHK'D: JJP	06/10/97	CSM1402a
APP'D: JJP	06/11/97	DRAWING NAME:
ORIGINAL ISSUED:	06/11/97	SCHEMATIC
PLOT DATE:	02/08/99	DRAWING NO. 07S690-XX
PLOT TIME:	09:56:02	REV 02
FILE NAME:	690xxh02	SCALE: NONE SHEET: 1 OF 8



CAUTION:
THIS SCHEMATIC IS PROVIDED FOR USE BY QUALIFIED PERSONNEL.
TO AVOID RISK OF ELECTRIC SHOCK, REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL. DO NOT PERFORM ANY SERVICING BEYOND
THAT EXPLAINED IN THE OPERATING INSTRUCTIONS.

SEE SHT 1 FOR REV HISTORY	
SIGNATURES:	DATE:
DRAWN: MAG	04/29/97
CHK'D: JJP	06/10/97
APP'D: JJP	06/11/97
ORIGINAL ISSUED:	06/11/97
PLOT DATE:	02/08/99
PLOT TIME:	09:56:02
FILE NAME:	690xxh0z
11880 BORMAN DR. ST. LOUIS, MISSOURI 63146	
PROJECT NAME: CSM1402a	
DRAWING NAME: PREAMP SCHEMATIC	
DRAWING NO.	07S690-XX
REV	0Z
SCALE: NONE	SHEET: 3 OF 8

CAUTION:
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LAST MSTR	LAST CHAN DESIGNATORS	NOT USED
J19 R99 D36 Q3 IC22 C78	C918 R635 C619 R934	C9, C11, C15, C27, C33, C38, C47, C53-C55, C63, C64, C71, C72, D22, D36-38
new section R182 Q160 C154		R156, 165, 174, 177

SEE SHT 1 FOR REV HISTORY

SIGNATURES:	DATE:	11880 BORMAN DR. ST. LOUIS, MISSOURI 63146
DRAWN: MAG	04/29/97	PROJECT NAME:
CHK'D: JJP	06/10/97	CSM1402a
APP'D: JJP	06/11/97	DRAWING NAME:
ORIGINAL ISSUED:	06/11/97	PREAMP SCHEMATIC
PLOT DATE:	02/08/99	DRAWING NO. 07S690-XX
PLOT TIME:	09:56:02	REV 0Z
FILE NAME:	690xxh0z	SCALE: NONE SHEET: 4 OF 8

TEST POINTS	VOLTAGE	TEST POINTS	VOLTAGE
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20	0.15VAC		
21	1.0VAC		
22	0.082VAC		
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24	2.0VAC		
25	1.88VAC		
CONDITIONS			
WITH 10VAC INPUT TO POWER JACK J11, WITH SIGNAL INPUT TO MIC IN, 10KHZ, 330microvolts, 200ohm source. ALL GAINS AND FADERS AT MAXIMUM SETTINGS, EQ FLAT. ALL SWITCHES IN "OUT" POSITION. ALL MEASUREMENTS -40% +60% (±4DB).			
* WITH 44mv INPUT TO STEREO CHANNELS			
** WITH .11mv TO TAPE L & R, AUX 1 & AUX 2 (SET TO FULL GAIN)			

MIC CHANNELS (1-6)

THIS SCHEMATIC SHOWS CHANNEL 1.
ADD 100 TO EACH SUCCESSIVE
CHANNELS REFERENCE DESIGNATORS
FOR CHANNELS 2-6

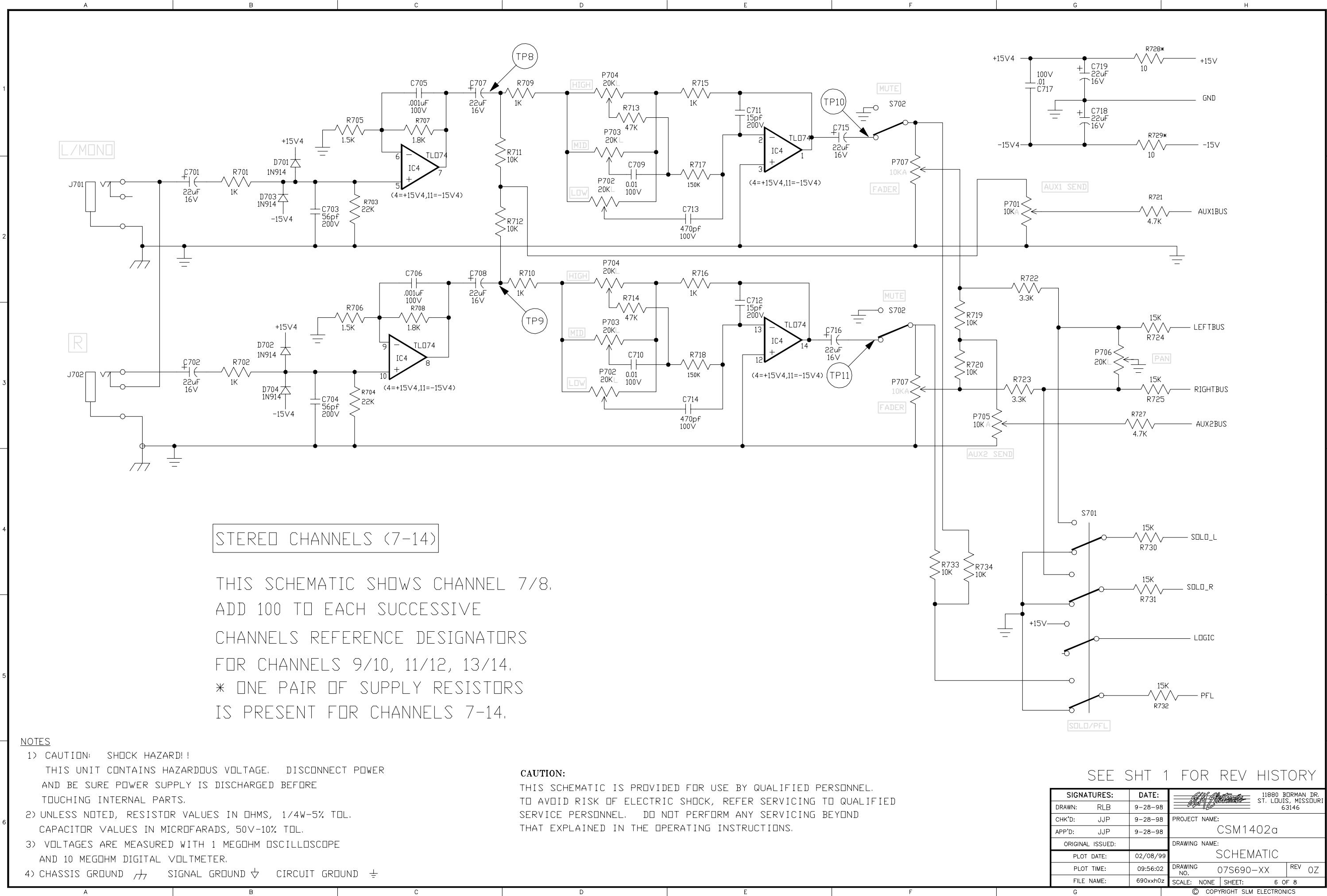
*THESE COMPONETS ARE PRESENT FOR EVERY
PAIR OF CHANNELS 1 & 2, 3 & 4, 5 & 6.

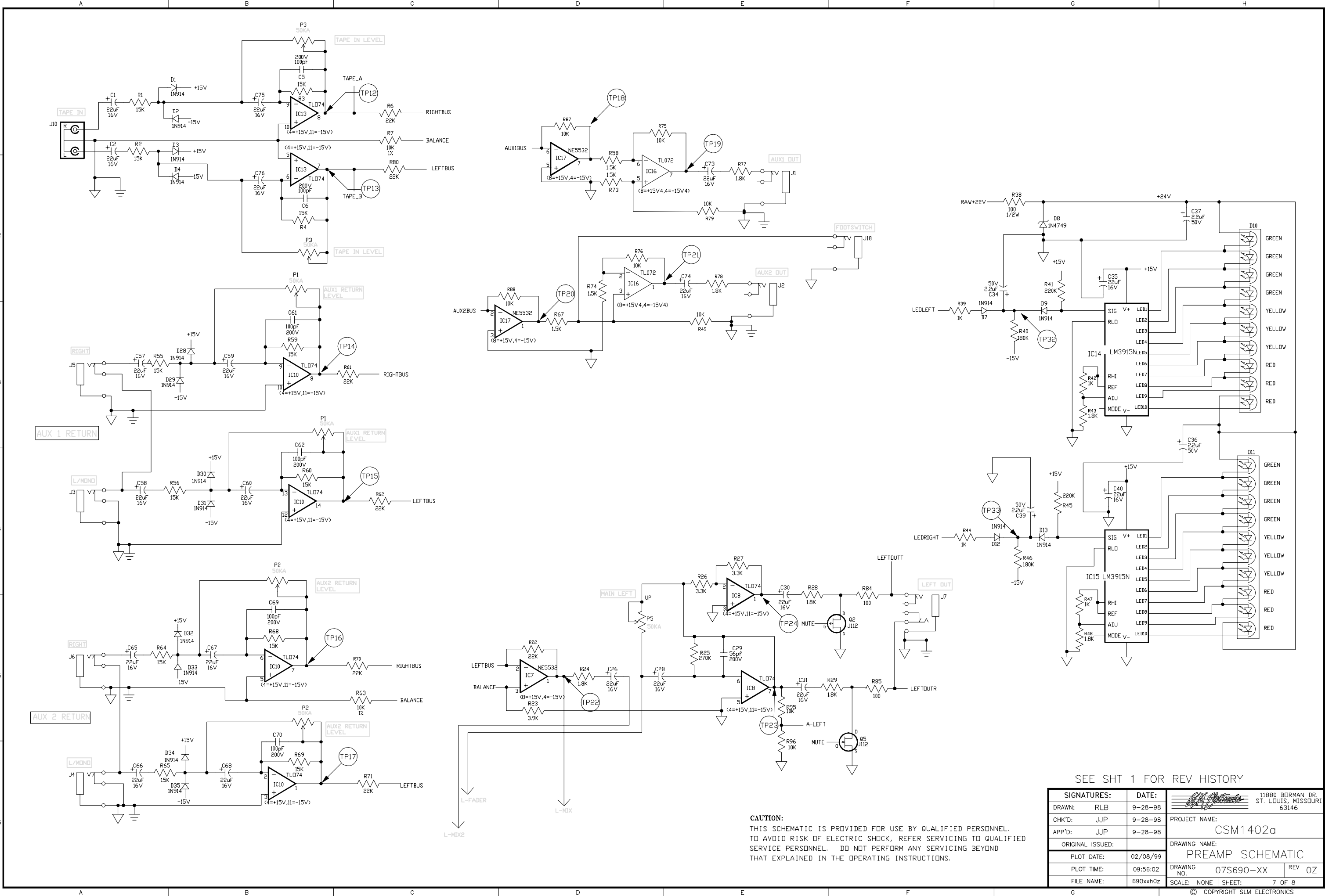
NOTES

- 1) CAUTION: SHOCK HAZARD!!
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- 2) UNLESS NOTED, RESISTOR VALUES IN OHMS, 1/4W-5% TOL.
CAPACITOR VALUES IN MICROFARADS, 50V-10% TOL.
- 3) VOLTAGES ARE MEASURED WITH 1 MEGOHM OSCILLOSCOPE AND 10 MEGOHM DIGITAL VOLTMETER.
- 4) CHASSIS GROUND SIGNAL GROUND CIRCUIT GROUND

SEE SHT 1 FOR REV HISTORY

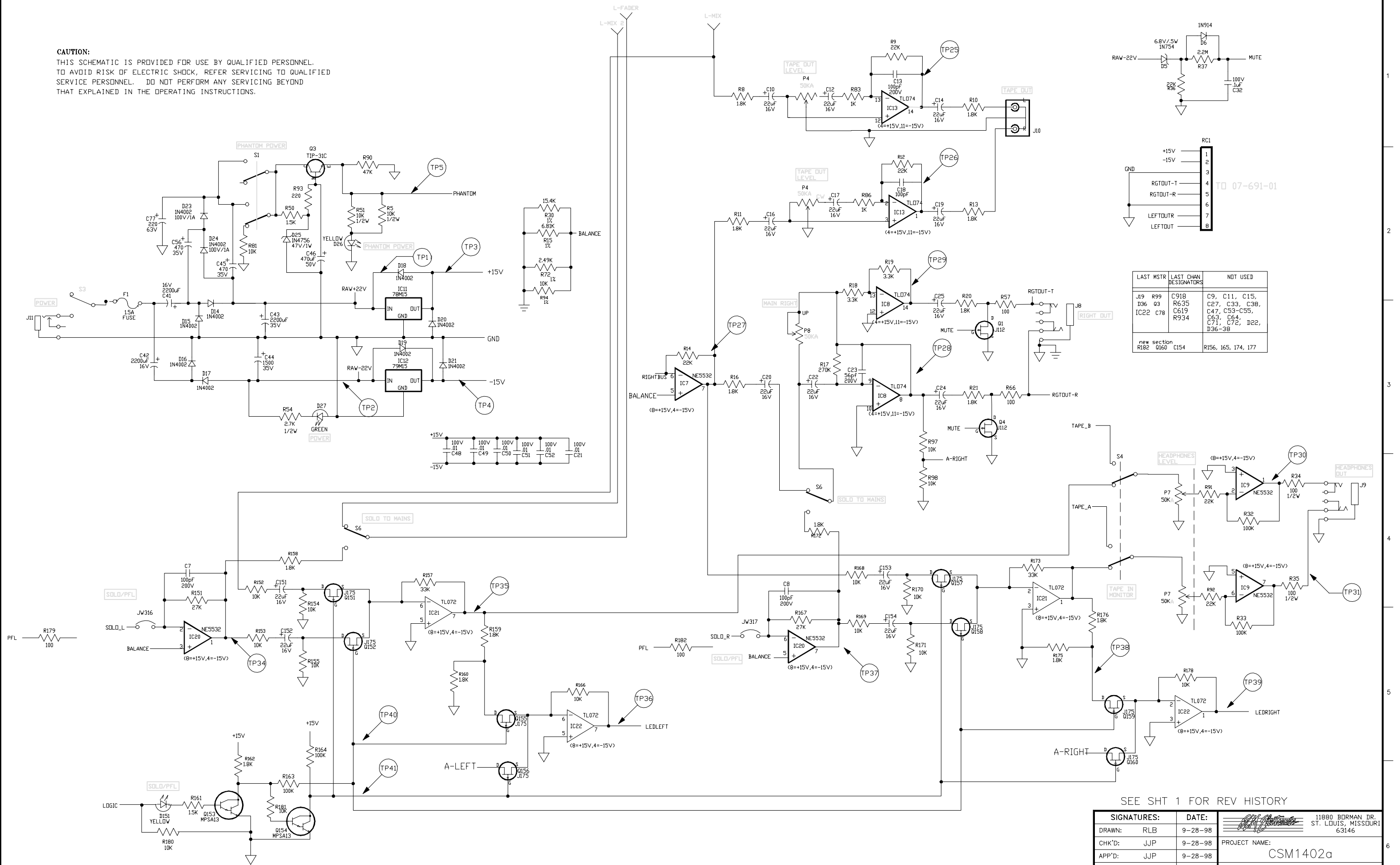
SIGNATURES:	DATE:	 11880 BORMAN DR. ST. LOUIS, MISSOURI 63146
DRAWN: RLB	9-28-98	
CHK'D: JJP	9-28-98	
APP'D: JJP	9-28-98	
ORIGINAL ISSUED:		PROJECT NAME: CSM1402a
PLOT DATE: 02/08/99		DRAWING NAME: SCHEMATIC
PLOT TIME: 09:56:02		DRAWING NO. 07S690-XX
FILE NAME: 690xxh0z		REV 0Z
SCALE: NONE		SHEET: 5 OF 8





SEE SHT 1 FOR REV HISTORY		
SIGNATURES:	DATE:	11880 BORMAN DR. ST. LOUIS, MISSOURI 63146 PROJECT NAME: CSM1402a DRAWING NAME: PREAMP SCHEMATIC DRAWING NO. 07S690-XX FILE NAME: 690xxh0z
DRAWN: RLB	9-28-98	
CHK'D: JJP	9-28-98	
APP'D: JJP	9-28-98	
ORIGINAL ISSUED:		
PLOT DATE:	02/08/99	REV 02
PLOT TIME:	09:56:02	
SCALE: NONE	SHEET: 7 OF 8	

CAUTION:
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THAT EXPLAINED IN THE OPERATING INSTRUCTIONS.



LAST MSTR		LAST CHAN DESIGNATORS		NOT USED	
J19	R99	C918		C9,	C11, C15,
D36	03	R635		C27,	C33, C38,
IC22	C78	C619		C47,	C53-C55,
		R934		C63,	C64,
				C71,	C72, D22,
				D36-38	
new section R182 Q160 C154			R156, 165, 174, 177		

SEE SHT 1 FOR REV HISTORY

SIGNATURES:		DATE:		 11880 BORMAN DR. ST. LOUIS, MISSOURI 63146	
DRAWN: RLB		9-28-98		PROJECT NAME: CSM1402a	
CHK'D: JJP		9-28-98			
APP'D: JJP		9-28-98			
ORIGINAL ISSUED:		DRAWING NAME:			
PLOT DATE:		02/08/99		PREAMP SCHEMATIC	
PLOT TIME:		09:56:02		DRAWING NO. 07S690-XX	
FILE NAME:		690xxh0z		REV 0Z	
		SCALE: NONE		SHEET: 8 OF 8	