Wiring Diagram

WARNING
THIS SECTION OF THE MANUAL CONTAINS SERVICE INSTRUCTIONS FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY.

9. PART OF A401 ASSEMBLY. (NOT PART OF 6022)

8. WIRING TO E401 MUST BE IN ORDER AS SHOWN.

6. (W201) INDICATES CABLE IDENTIFICATION NO.

5. COMPONENT IDENTIFICATION CODE:

FRONT PANEL	201 & UP.
REAR CHASSIS	301 & UP.
CHASSIS	401 & UP.

4. WIRE IDENTIFICATION CODE:

S201- 5 BLK/ WHT- 16

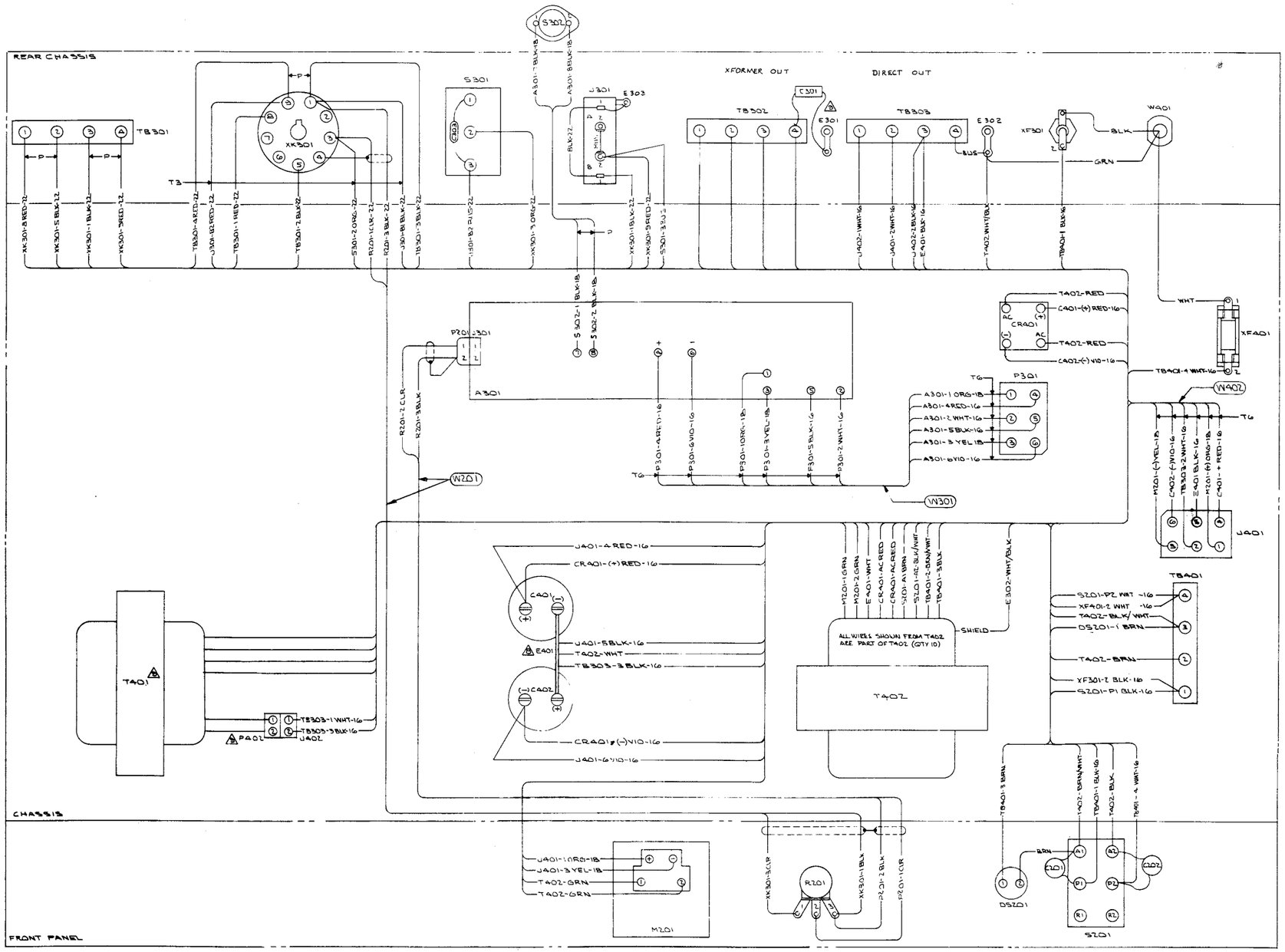
- 16 — AWG
- WHT — TRACE COLOR
- BLK — WIRE COLOR
- 5 — TERMINATION
- S201 — DESTINATION

3. ALL WIRING SEEN FROM WIRING SIDE.

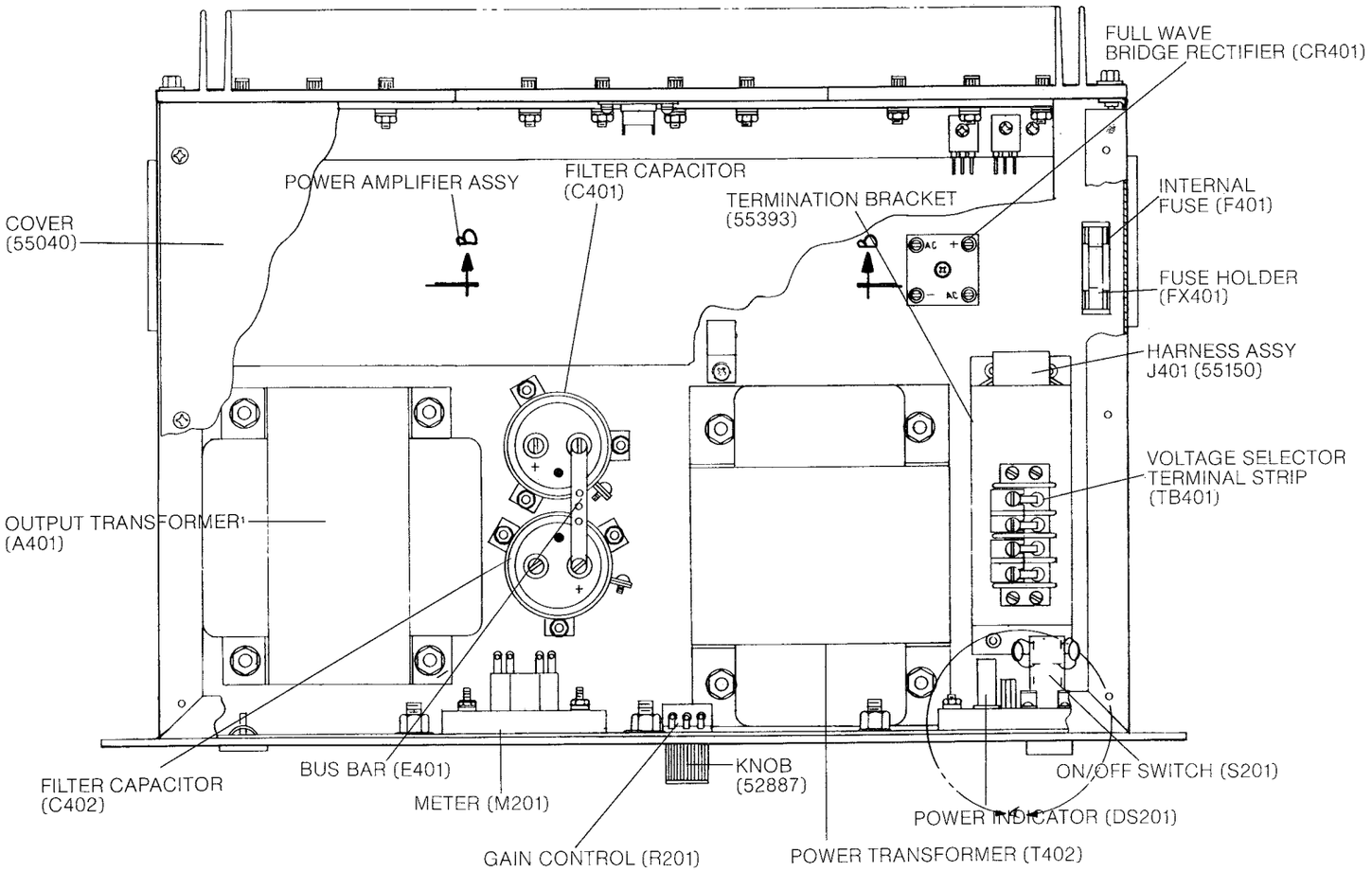
2. ALL BUS WIRE TO BE 18 AWG SOLID UNINSULATED.

1. ALL WIRE TO BE STRANDED.

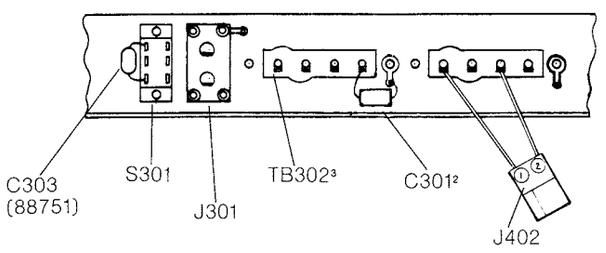
NOTES: UNLESS OTHERWISE SPECIFIED.



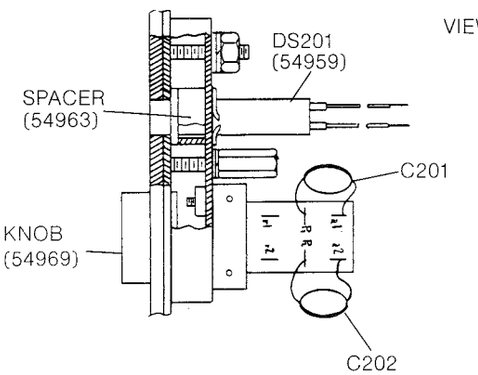
WARNING
THIS SECTION OF THE MANUAL CONTAINS SERVICE INSTRUCTIONS FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY.



VIEW B-B



VIEW A-A

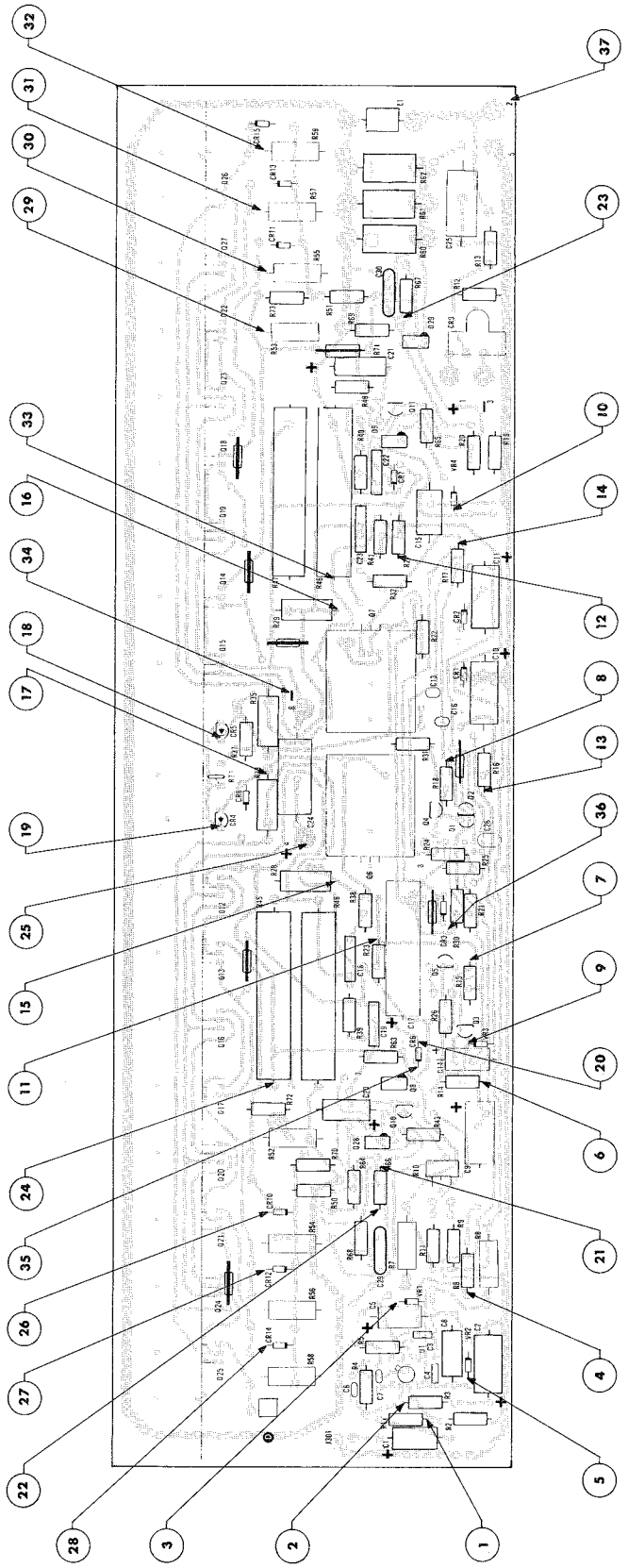


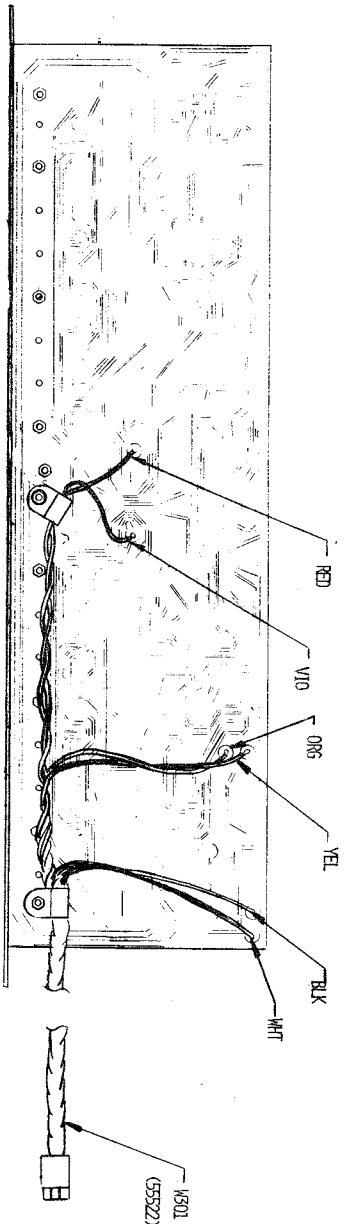
NOTES:

1. Used on 6021 only.
2. Part of output transformer assy.
3. TB302 used on 6021 only. 6022 uses cover plate 55124.

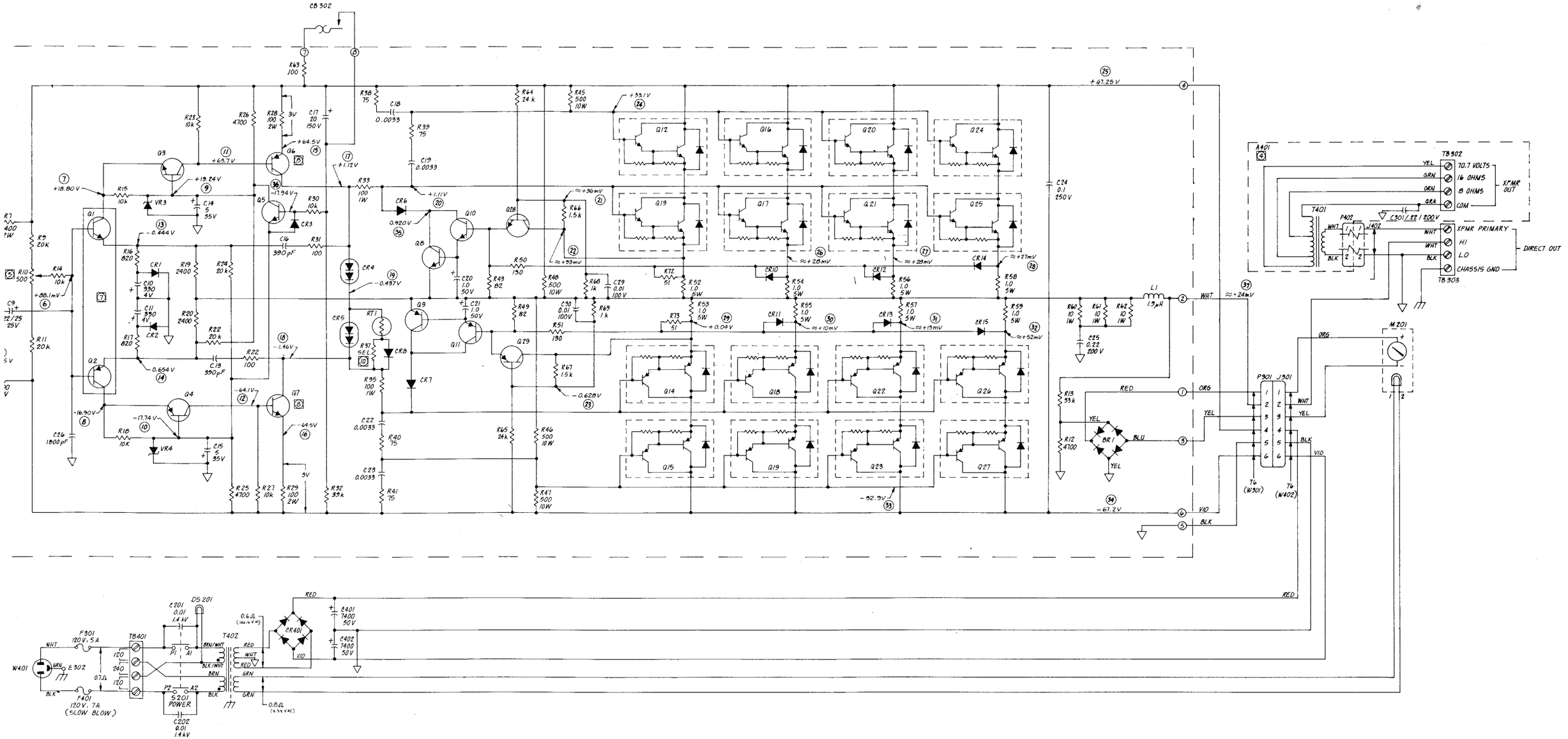
P.C. Assembly

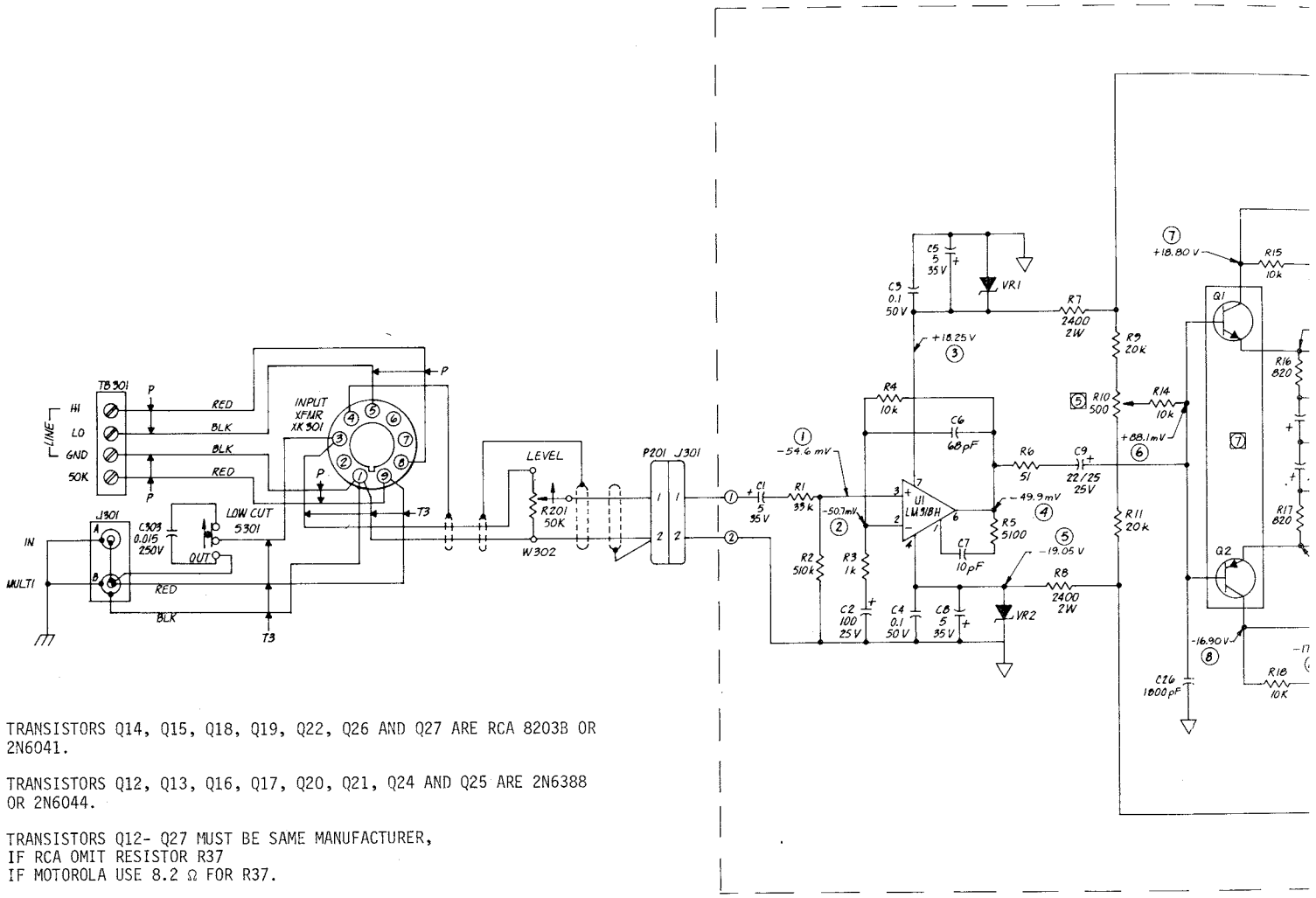
WARNING
THIS SECTION OF THE MANUAL CONTAINS SERVICE INSTRUCTIONS FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY.





WARNING
THIS SECTION OF THE MANUAL CONTAINS SERVICE INSTRUCTIONS FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY.





12. TRANSISTORS Q14, Q15, Q18, Q19, Q22, Q26 AND Q27 ARE RCA 8203B OR 2N6041.

11. TRANSISTORS Q12, Q13, Q16, Q17, Q20, Q21, Q24 AND Q25 ARE 2N6388 OR 2N6044.

(10) TRANSISTORS Q12- Q27 MUST BE SAME MANUFACTURER,
IF RCA OMIT RESISTOR R37
IF MOTOROLA USE 8.2 Ω FOR R37.

9. COMPONENT REFERENCE DESIGNATION CODE:

FRONT PANEL	201 & UP.
REAR CHASSIS	301 & UP.
CHASSIS	401 & UP.

(8.) TRANSISTORS Q6 AND Q7 TO HAVE THE SAME BETA COLOR CODE.

(7.) TRANSISTORS Q1 AND Q2 ARE BONDED TOGETHER WITH THERMAL EPOXY.

(5.) RESISTOR R10 IS DC OFFSET NULL CONTROL ADJUSTMENT FOR 0 ± 25 mV.

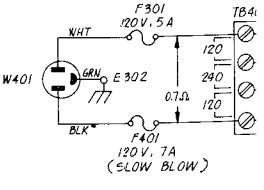
(4.) A401 IS USED IN 6021 ONLY.

3. CAPACITOR VALUES IN MICROFARADS.

2. RESISTOR VALUES IN OHMS.

1. VOLTAGES MEASURED AT 120 V AC LINE, NO SIGNAL OF TYPICAL UNIT.

NOTES: UNLESS OTHERWISE SPECIFIED.



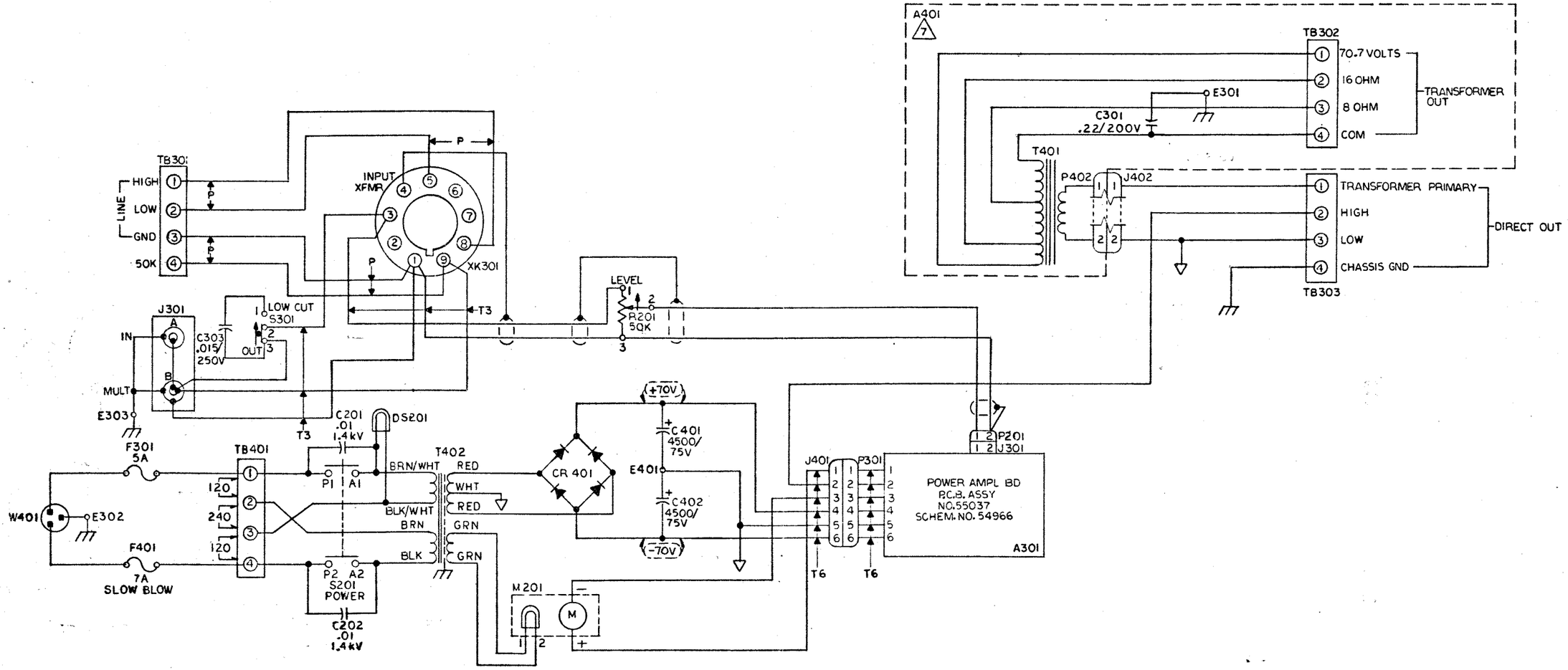
WARNING
THIS SECTION OF THE MANUAL CONTAINS SERVICE INSTRUCTIONS FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY.

Circuit Description	JBL Part No.	Description		
CAPACITORS				
All capacitors are in μF unless otherwise noted.				
C1	47795	5	35 V	
C2	48504	100	25 V	
C3	56153	0.1	100 V	
C4	56153	0.1	100 V	
C5	47795	5	35 V	
C6	48477	68 pF	500 V	Mica
C7	48429	10 pF	500 V	Mica
C8	47795	5	35 V	
C9	36188	22/25	25 V	
C10	55172	330	4 V	
C11	55172	330	4 V	
C13	48466	390 pF	500 V	Mica
C14	47795	5	35 V	
C15	47795	5	35 V	
C16	48466	390 pF	500 V	Mica
C17	55422	20	150 V	
C18	53043	0.0033	250 V	
C19	53043	0.0033	250 V	
C20	81321	1.0	50 V	
C21	81321	1.0	50 V	
C22	53043	0.0033	250 V	
C23	53043	0.0033	250 V	
C24	10114	0.1	250 V	
C25	88753	0.22	250 V	
C26	48929	1800 pF		Mica
C29	36163	0.01	100 V	Cer
C30	36163	0.01	100 V	Cer
INDUCTOR				
L1	52573	1.9 μH		
TRIM POT				
R10	55791	500 Ω		
RESISTORS				
All resistors are fixed, metal-film, ½ W, ± 5% unless otherwise indicated.				
R1	83331	33 k		
R2	35789	510 k		
R3	10940	1 k		
R4	11464	10 k		
R5	11461	5.1 k		
R6	35693	51		
R7	36921	2.4 k	2 W	carbon
R8	36921	2.4 k	2 W	carbon
R9	10073	20 k		
R11	10073	20 k		
R12	10074	4.7 k		
R13	35769	75 k		
R14	11464	10 k		
R15	11464	10 k		
R16	88211	820		
R17	88211	820		
R18	11464	10 k		
R19	35733	2.4 k		
R20	35733	2.4 k		
R21	10073	20 k		
R22	11507	100		
R23	11464	10 k		
R24	10073	20 k		
R25	10074	4.7 k		
R26	10074	4.7 k		
R27	11464	10 k		
R28	36888	100	2 W	carbon

Circuit Description	JBL Part No.	Description		
RESISTORS				
R29	36888	100	2 W	carbon
R30	11464	10 k		
R31	11507	100		
R32	11613	39 k		
R33	36737	100	1 W	carbon
R35	36737	100	1 W	carbon
R37	—	SELECTED		
R38	35697	75		
R39	35697	75		
R40	35697	75		
R41	35697	75		
R43	35698	82		
R45	84074	500	10 W 10%	ww
R46	84074	500	10 W 10%	ww
R47	84074	500	10 W 10%	ww
R48	84074	500	10 W 10%	ww
R49	35698	82		
R50	35703	130		
R51	35703	130		
R52	81071	1.0	5 W	ww
R53	81071	1.0	5 W	ww
R54	81071	1.0	5 W	ww
R55	81071	1.0	5 W	ww
R56	81071	1.0	5 W	ww
R57	81071	1.0	5 W	ww
R58	81071	1.0	5 W	ww
R59	81071	1.0	5 W	ww
R60	36865	10	2 W	
R61	36865	10	2 W	
R62	36865	10	2 W	
R64	35757	24 k		
R65	35757	24 k		
R66	10078	1.5 k		
R67	10078	1.5 k		
R68	10940	1 k		
R69	10940	1 k		
R72	35693	51		
R73	35693	51		
SEMICONDUCTORS				
CR1	39869	1N4003		
CR2	39869	1N4003		
CR3	39869	1N4003		
CR4	52219	MSD7000		
CR5	52219	MSD7000		
CR6	39869	1N4003		
CR7	39869	1N4003		
CR8	39869	1N4003		
CR9	47611			
CR10	39869	1N4003		
CR11	39869	1N4003		
CR12	39869	1N4003		
CR13	39869	1N4003		
CR14	39869	1N4003		
CR15	39869	1N4003		
Q1	48340	MPSA06		
Q2	55201	MPS4356		
Q3	48340	MPSA06		
Q4	55201	MPS4356		
Q5	48340	MPSA06		
Q6	52210	MJE 350		
Q7	52209	MJE 340		
Q8	55411	MJE 182		
Q9	55412	MJE 172		
Q10	48340	MPSA06		
Q11	55201	MPS4356		
Q12	55413	2N6388		

Circuit Description	JBL Part No.	Description	
SEMICONDUCTORS			
Q13	55413	2N6388	
Q14	55414	RCA 8203B	
Q15	55414	RCA 8203B	
Q16	55413	2N6388	
Q17	55413	2N6288	
Q18	55414	RCA 8203B	
Q19	55414	RCA 8203B	
Q20	55413	2N6388	
Q21	55413	2N6388	
Q22	55414	RCA 8203B	
Q23	55414	RCA 8203B	
Q24	55413	2N6388	
Q25	55413	2N6388	
Q26	55414	RCA 8203B	
Q27	55414	RCA 8203B	
U1	52216	LM318H	
VR1	52225	1N4746	
VR2	52225	1N4746	
VR3	52225	1N4746	
VR4	52225	1N4746	
CHASSIS PARTS			
CAPACITORS			
C201	13189	0.01 μF	1.4 kV
C202	13189	0.01 μF	1.4 kV
C303	88751	0.015 μF	250 V
C401	55118	4500 μF	75 V
C402	55118	4500 μF	75 V
FUSES			
F301	55567	5A, 3AG	
F401	82974	7A, 3AG SLO-BLO	
FUSE BLOCK			
XF401	37020		
FUSE HOLDER			
XF301	12694		
KNOB			
	54969	switch knob	
	52887	gain knob	
LAMP			
DS201	54959	green Ind. lamp	
METER			
M201	55098		
PHONO JACK			
J301	84126		
POTENTIOMETER			
R201	58377	50 k, audio taper	
POWER CORD			
W401	82477		
SOCKET, 9-PIN			
XK301	55106		
SEMICONDUCTOR			
CR401	39885	bridge diode	
TERMINAL STRIPS			
TB301	86422		
TB303	86422		
TB401	55110	5-terminal	
THERMAL BREAKER			
CB302	53397	thermal breaker 80° C	
THERMISTOR			
RT1	55408		
TRANSFORMERS			
A401	60-6022	output transformer assy (6007 only)	
T402	55108	power transformer	

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⚠5 A401 IS USED IN 6021 ONLY.

5. FOR WIRING DIAGRAM SEE 55105.

4. COMPONENT REFERENCE DESIGNATION CODE: FRONT PANEL 201 & UP
   REAR PANEL 301 & UP
   CHASSIS 401 & UP

3. VOLTAGES MEASURED WITH 120VAC LINE AND NO SIGNAL INPUT.

2. CAPACITOR VALUES IN MICROFARADS.

1. RESISTOR VALUES IN OHMS, ½W, 5 %.

NOTES: UNLESS OTHERWISE SPECIFIED

REVISIONS				
ECN	LET.	CHANGE	DATE	BY
5	B	NEW PCB DESIGN	7-1-75	
4	A	NEW PCB DESIGN	6-1-75	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. BREAK SHARP EDGES .015
DECIMALS .XX ±.02 .XXX ±.005 FRACTIONS ±1/32 ANGULAR ±1°
MATERIAL
TREATMENT
MACHINE FINISH √
DO NOT SCALE DRAWING

DRAWN 5-5-75
CHECK 5-27-75
DESIGN
ENGR.
APPR.

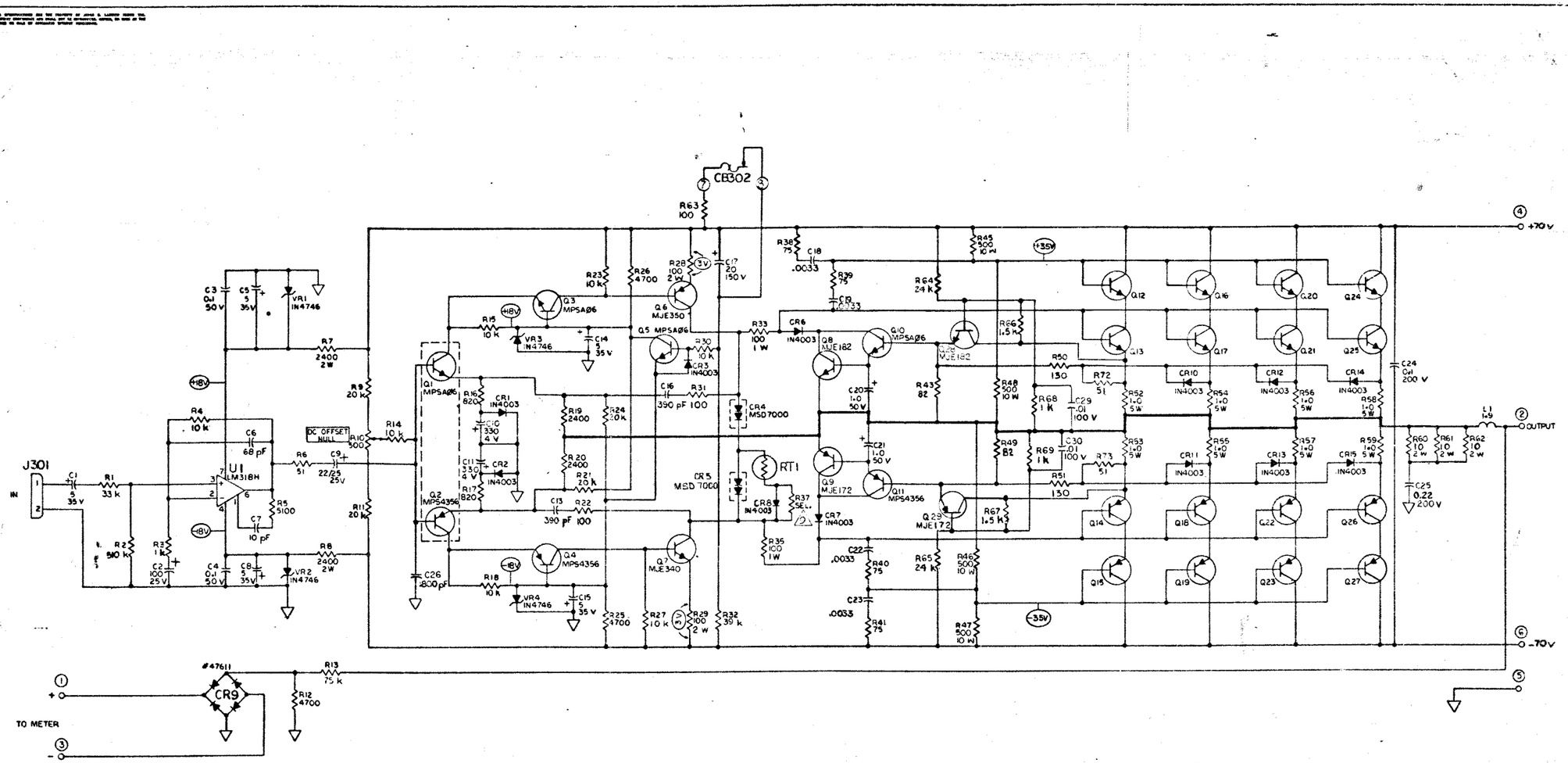
JBL JAMES B. LANSING SOUND INC. PASADENA, CALIF. 91003

TITLE: SCHEMATIC MODEL 6321&6322

SIZE D | REF DWG 55104 | DRAWING NUMBER | REV B

SCALE | WEIGHT | SHEET 1 OF 1

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REFERENCE DESIGNATIONS	
LAST USED	NOT USED
RT1	
C30	C12
CR15	
L1	
Q29	
R73	R36,R42,R44,R34,R70 & R71
VR4	
CB302	

⚠8 Q12 – Q27 MUST ALL BE SAME MANUFACTURER,
IF R.C.A. OMIT R37
IF MOTOROLA USE 5.2Ω R37

7. Q14,Q15,Q18,Q19,Q22,Q23,Q26 AND Q27 ARE R.C.A. 8203B OR 2N6041.
6. Q12,Q13,Q16,Q17,Q20,Q21,Q24 AND Q25 ARE 2N6386 OR 2N6044.
5. ZENER VOLTAGES STATED AT 18 V. RMS.
4. VOLTAGES MEASURED WITH 120 VAC LINE AND NO SIGNAL INPUT.
3. RESISTOR VALUES IN KILOHMS, ¼W, 5%
2. CAPACITOR VALUES IN MICROFARADS
1. UNLESS OTHERWISE SPECIFIED, R = Ω, 5%
NOTES: UNLESS OTHERWISE SPECIFIED.

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REAR CHASSIS

XFORMER OUT

DIRECT OUT

CHASSIS

FRONT PANEL

7. ALL WIRING SEEN FROM WIRING SIDE.
6. ALL BUS WIRE TO BE 18 AWG SOLID UNINSULATED.
5. ALL WIRE TO BE STRANDED.
4. FOR 6072 ASSEMBLY SEE 55248.
3. FOR 6021 ASSEMBLY SEE 55103.
2. DELETED
1. FOR 6021 AND 6072 SCHEMATIC SEE 55104.
NOTES: UNLESS OTHERWISE SPECIFIED

10. WIRE IDENTIFICATION CODE.
S201-5 BLK/WHT-16
- AWG
- TRACE COLOR
- WIRE COLOR
- TERMINATION
- DESTINATION

△A PART OF A401 ASSEMBLY.
(NOT PART OF 6072, 6012 + 6101)

△B WIRING TO E401 MUST BE IN ORDER AS SHOWN.

15. FOR 6012 ASSEMBLY SEE 55904.
14. FOR 6011 ASSEMBLY SEE 55903.
13. FOR 6011 + 6012 SCHEMATIC SEE 56021.
12. (W101) INDICATES CABLE IDENTIFICATION NO.
11. COMPONENT IDENTIFICATION CODE.
301- 7 55 FRONT PANEL
301- 955 REAR CHASSIS.
401- 455 CHASSIS

18. FOR 6008 ASSEMBLY SEE 55906.
17. FOR 6007 ASSEMBLY SEE 55905.
16. FOR 6007 + 6008 SCHEMATIC SEE 56022.