

MR 140

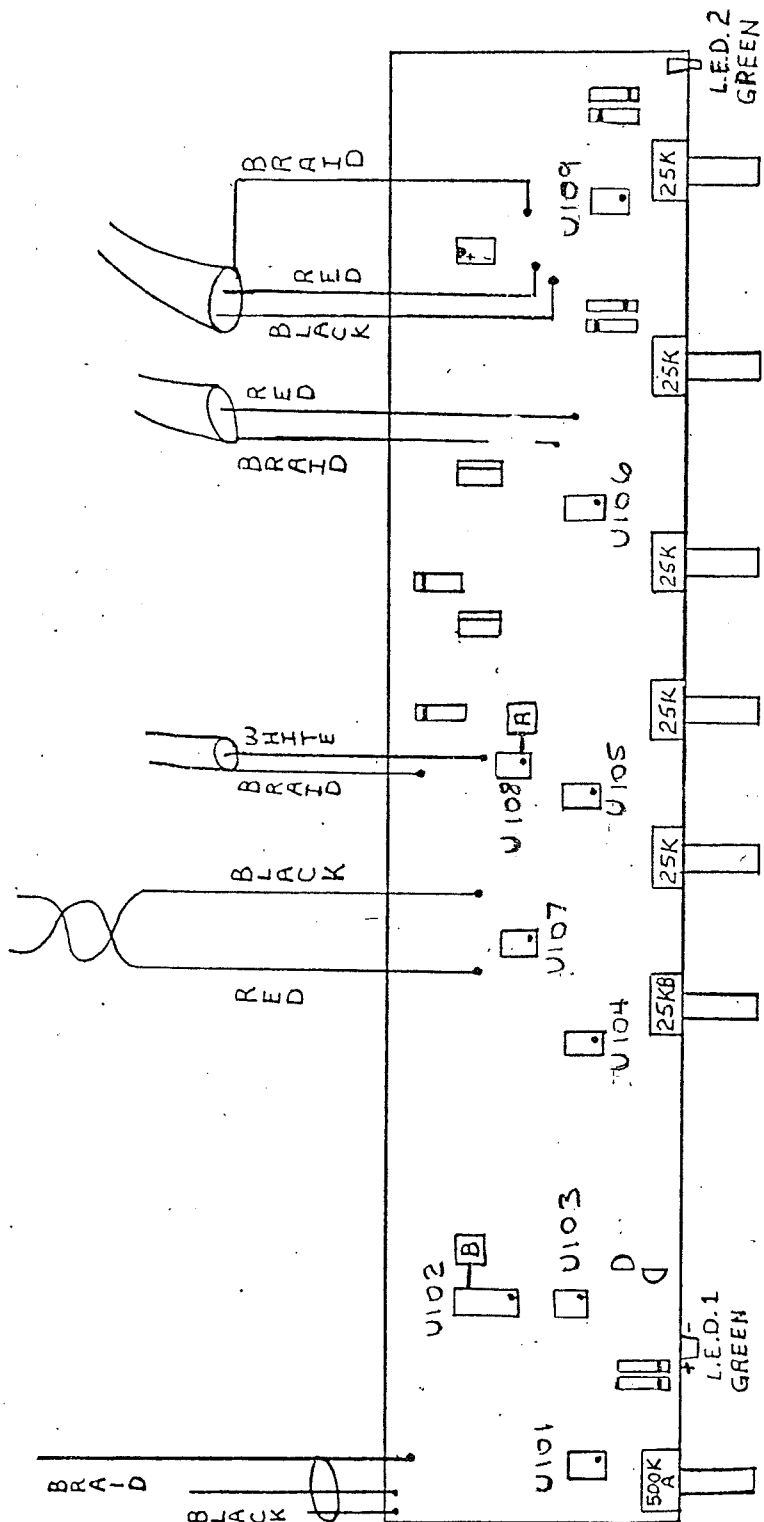
# Schematic

**B I A M P<sup>®</sup>**

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S Y S T E M S

10074 SW Arctic Drive      Beaverton, OR 97005      503-641-7287



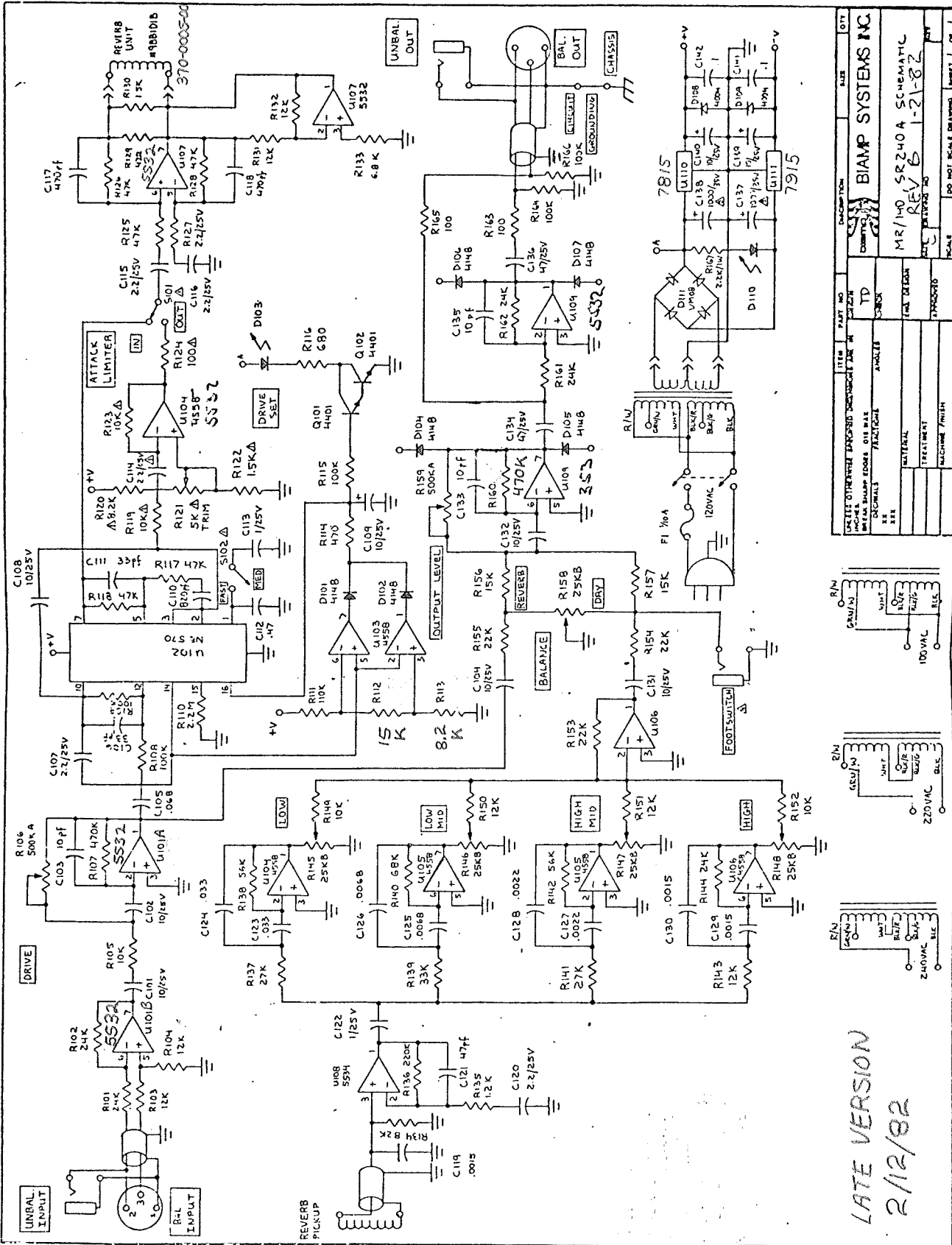
- U101 = NE5532
- U102 = NE570
- U103 = 4558
- U104 = 4558
- U105 = 4558
- U106 = 4558
- U107 = NE5532
- U108 = NE5534
- U109 = NE5532

[A]: IC106 PIN # 2 EQ TEST INPUT

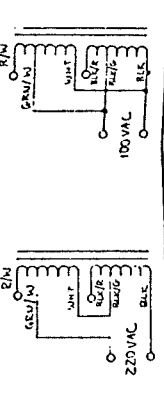
[B]: IC102 PIN # 7 LIMITER OUTPUT TEST POINT

MR 140 COMPONENT SIDE  
 DRAWN BY TOM H.  
 12-2-80 1-21-81

REV - B

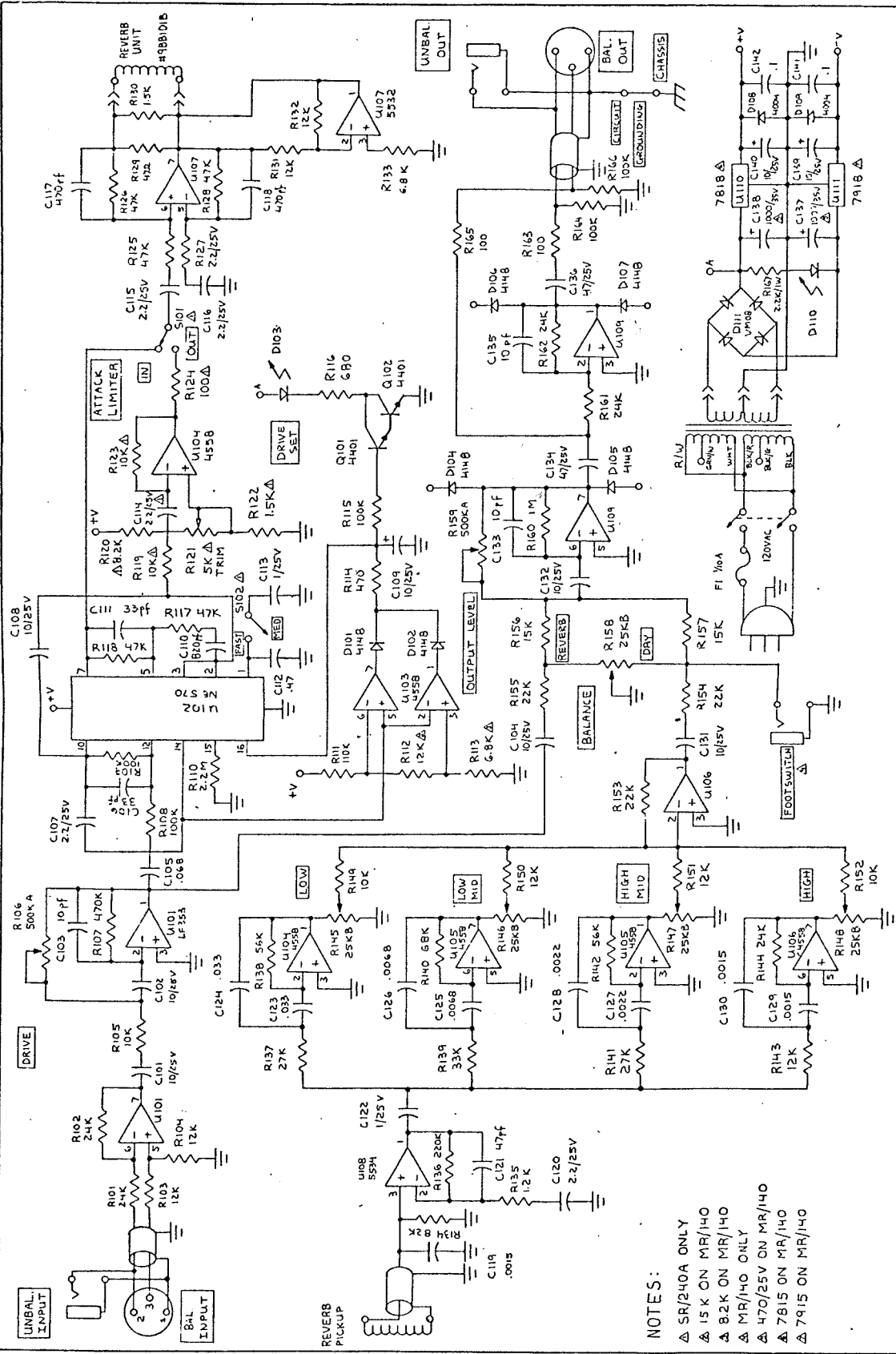


ITEM	PART NO	DESCRIPTION	DATE	BY
1	U101	OPAMP		
2	U102	OPAMP		
3	U103	OPAMP		
4	U104	OPAMP		
5	U105	OPAMP		
6	U106	OPAMP		
7	U107	OPAMP		
8	U110	OPAMP		
9	U111	OPAMP		
10	D101	DIODE		
11	D102	DIODE		
12	D103	DIODE		
13	D104	DIODE		
14	D105	DIODE		
15	D106	DIODE		
16	D107	DIODE		
17	D108	DIODE		
18	D109	DIODE		
19	D110	DIODE		
20	R101	RES		
21	R102	RES		
22	R103	RES		
23	R104	RES		
24	R105	RES		
25	R106	RES		
26	R107	RES		
27	R108	RES		
28	R109	RES		
29	R110	RES		
30	R111	RES		
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37	R118	RES		
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42	R123	RES		
43	R124	RES		
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83	R164	RES		
84	R165	RES		
85	R166	RES		
86	C101	CAP		
87	C102	CAP		
88	C103	CAP		
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118	C133	CAP		
119	C134	CAP		
120	C135	CAP		
121	C136	CAP		
122	C137	CAP		
123	D110	DIODE		
124	D111	DIODE		
125	F1	FUSE		
126	SW	SWITCH		
127	TR	TRANSFORMER		
128	U101	OPAMP		
129	U102	OPAMP		
130	U103	OPAMP		
131	U104	OPAMP		
132	U105	OPAMP		
133	U106	OPAMP		
134	U107	OPAMP		
135	U110	OPAMP		
136	U111	OPAMP		
137	D101	DIODE		
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146	D110	DIODE		
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165	D107	DIODE		
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167	D109	DIODE		
168	D110	DIODE		
169	F1	FUSE		
170	SW	SWITCH		
171	TR	TRANSFORMER		
172	U101	OPAMP		
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179	U110	OPAMP		
180	U111	OPAMP		
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186	D106	DIODE		
187	D107	DIODE		
188	D108	DIODE		
189	D109	DIODE		
190	D110	DIODE		
191	F1	FUSE		
192	SW	SWITCH		
193	TR	TRANSFORMER		



LATE VERSION  
2/12/82

DATE	DESCRIPTION	SCALE	PROJECT	OF
MR/140	SR240A SCHEMATIC			
REV	B			
1-21-82				



REV	DATE	BY	DESCRIPTION
1			INITIAL OPERATIVE SPECIFIC DRAWING
2			REVISIONS
3			REVISIONS
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6			REVISIONS
7			REVISIONS
8			REVISIONS
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97			REVISIONS
98			REVISIONS
99			REVISIONS
100			REVISIONS

BIAMP SYSTEMS INC.

MR/140 SR240A SCHEMATIC

REV B 1-21-82

SCALE: DO NOT SCALE DRAWING

SHEET 1 OF 1

UNBAL INPUT

BAL INPUT

REVERB PICKUP

ATTACK LIMITER

DRIVE SET

OUTPUT LEVEL

REVERB

BALANCE

DRY

FOOTSWITCH

UNBAL OUT

BAL OUT

CHASSIS

GROUNDING

7418 Δ

7416 Δ

7410 Δ

7411 Δ

7412 Δ

7413 Δ

7414 Δ

7415 Δ

7416 Δ

7417 Δ

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7500 Δ

NOTES:

- Δ SR/240A ONLY
- Δ 15K ON MR/140
- Δ 8.2K ON MR/140
- Δ MR/140 ONLY
- Δ 470/25V ON MR/140
- Δ 7815 ON MR/140
- Δ 7915 ON MR/140

EARLY VERSION

SERVICE BULLETIN

MR/140 HUMM REDUCTION

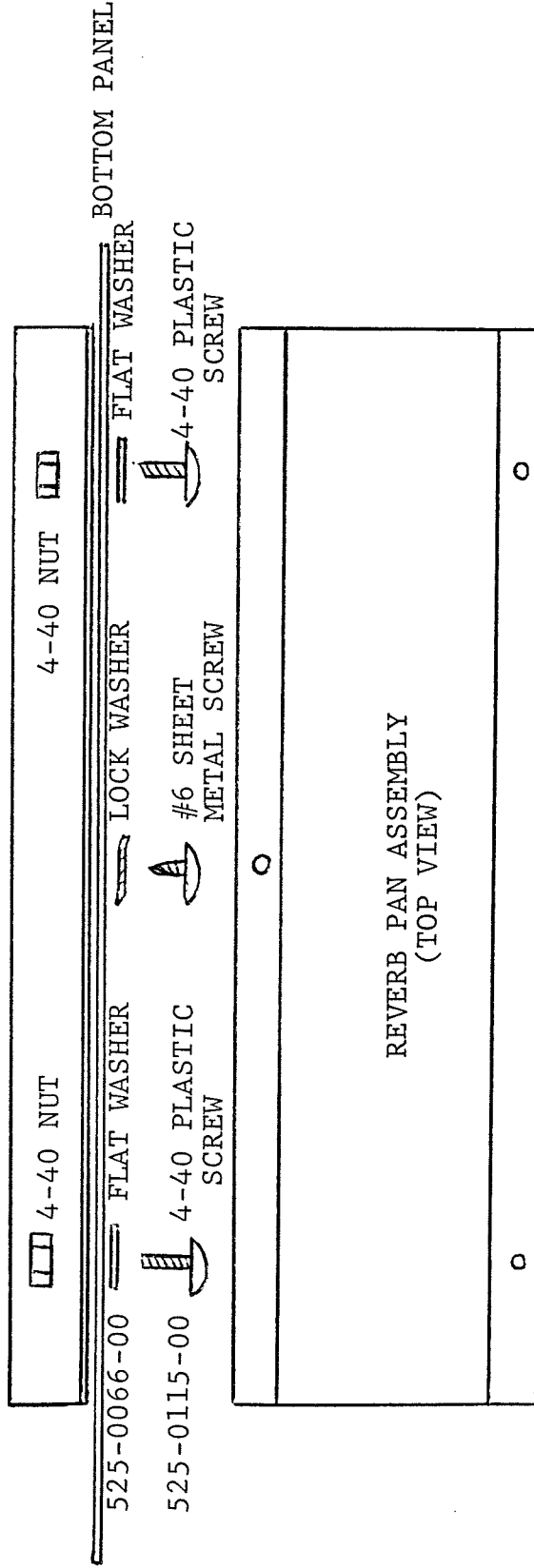
WE HAVE FOUND SOME MR/140 REVERB UNITS CAN PRODUCE A SUBSTANTIAL 120 CYCLE HUM WHENEVER THE WET SIGNAL IS USED. INVESTIGATION OF THIS PROBLEM HAS FOUND A MAGNETIC FIELD CIRCULATING THROUGHOUT THE ENTIRE CHASSIS. TO CURE THE PROBLEM IT IS NECESSARY TO OPEN THIS MAGNETIC PATH.

TO CORRECT THIS PROBLEM PROCEED AS FOLLOWS:

1. REMOVE THE TOP AND BOTTOM PANELS FROM THE CHASSIS.
2. EXAMINE THE REVERB PAN AND FOAM PAD ON THE BOTTOM PANEL. THE PAN SHOULD BE LOCATED ON THE PAD SO THAT NO PART OF THE PAN IS TOUCHING THE METAL BOTTOM PANEL ( SCREWS ARE THE ONLY CONTACT). ADDITIONAL INSULATION MAY BE REQUIRED (THIN CARDBOARD, FISH PAPER).
3. CUT 3/8" WIDE STRIPS TO LAY ON THE TOP AND BOTTOM SIDE OF THE CHASSIS WRAP.
4. RE-INSTALL THE TOP AND BOTTOM COVERS WITH THE MOUNTING SCREWS BEING THE ONLY METAL CONTACT TO THE CHASSIS WRAP.

SELF ADHESIVE FISH PAPER IS AVAILABLE FROM BIAMP. PART NUMBER 520-0042-00.

MR/140 REVERB PAN MOUNTING MODIFICATION  
 PER ECO NO. 212-83



REPLACE 2 OF THE PAN MOUNTING SCREWS WITH PLASTIC SCREWS, PART NUMBER 525-0115-00, TO BREAK A MAGNETIC CIRCUIT PATH IN THE PAN HOUSING.