

SERVICE INFORMATION

Disassembly Procedure.

CAUTION: WAIT ABOUT 15 MINUTES AFTER THE AMPLIFIER HAS BEEN POWERED DOWN BEFORE BEGINNING DISASSEMBLY PROCEDURE, TO ALLOW THE POWER SUPPLY CAPACITORS TO DISCHARGE.

1. Remove the bottom cover: 4 ea. #6 x3/8" phillips screws on the side rails and 10 ea. #6 x 1/4" phillips screws on the edges of the bottom cover.
2. To remove a module (PCB card):
 - a. Remove the input/output plate on the rear panel by removing 7 phillips screws, 6 ea. 3/8" nuts and washers from the inputjacks and 12 ea. #8 tapping screws from the output terminal blocks.
 - b. Remove the 7 phillips screws on the front panel just below the signal/limit/clip LEDs.
 - c. Remove the 8 ea. #6/32 x 3/4" machine screws from the left and right edges of the heatsink mounting flange. Now the entire heatsink/module assembly is free to slide to the rear-this will provide the clearance necessary to remove any of the six amp modules.
 - d. To remove a module, first de-solder the purple wire running to the adjacent card. Then remove 7 ea. of the #4-40 machine screws holding the output, driver and bias transistors to the heatsink. Now pull firmly straight up to disengage the module from the connector-use a rocking motion to ease removal, as the connector is very tight

NOTE: Be sure that all of the transistor sil pads (insulators) stay on the heatsink--some of these may stick on the transistor and be inadvertently lost or thrown away with the defective component.

3. Module replacement: Factory supplied modules are pm-tuned and ready for installation. If you have made repairs on a module, be sure that ALL diodes are measured and replaced as necessary prior to installation of the module.

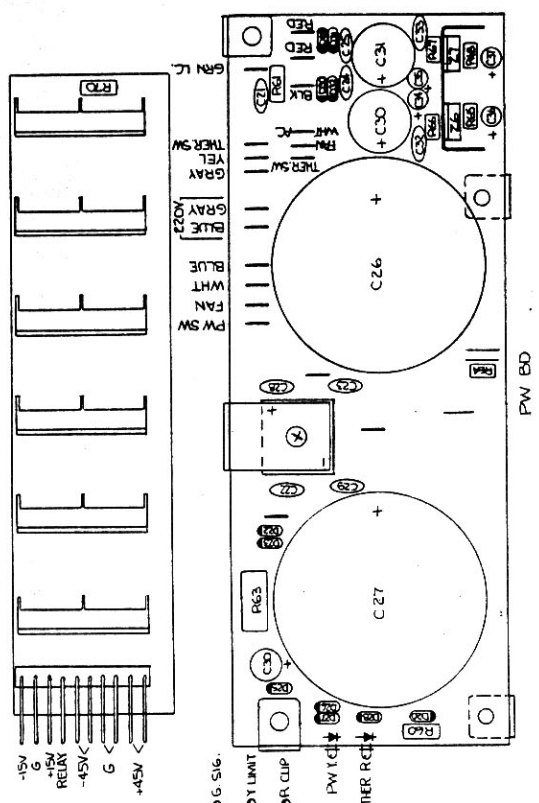
- a. Be sure that all four sil pads (insulators) are in place on the heatsink
 - b. BE SURE THAT THE NYLON SHOULDER WASHERS ARE IN PLACE ON BOTH DRIVER TRANSISTORS Q2 and Q8 (TO-220 cases). Install the #4-40 screws in these and snug up only: DO NOT OVERTIGHTEN THESE DRIVER SCREWS AS THIS MAY DAMAGE THE THIN SHOULDER WASHERS AND CAUSE A SHORT.
 - c. Install the remaining 5 ea. #4-40 screws on the outputs and bias transistor and TIGHTEN THESE FIRMLY TO ENSURE PROPER HEAT TRANSFER TO THE HEATSINK.
 - d. Slide heatsink assembly forward so that all LEDs are properly aligned in the front panel holes. Install and tighten the 8 heatsink mounting screws.
 - e. Replace the seven screws on the front panel.
 - f. Replace the input/output plate and bottom cover (don't forget the four screws holding the bottom cover to the side rails).
4. Power supply repairs.
- a. Power supply PCB: Do not attempt removal of this card. Instead, remove amplifier modules XI and X2 as necessary to allow clear access to the foil side of the power supply PCB; then replace any defective components by de-soldering

1 2 3 4

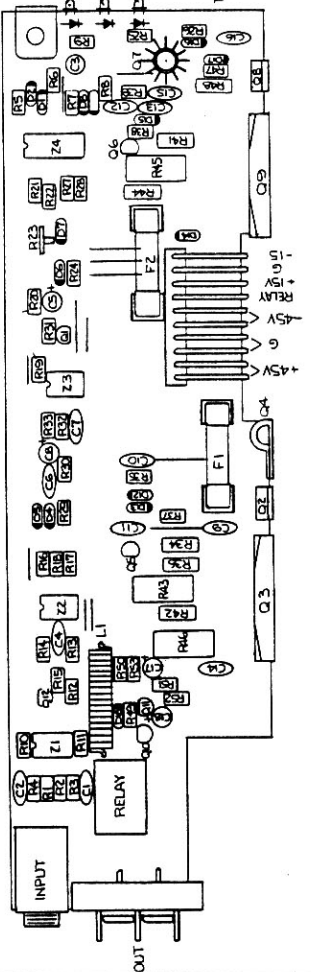
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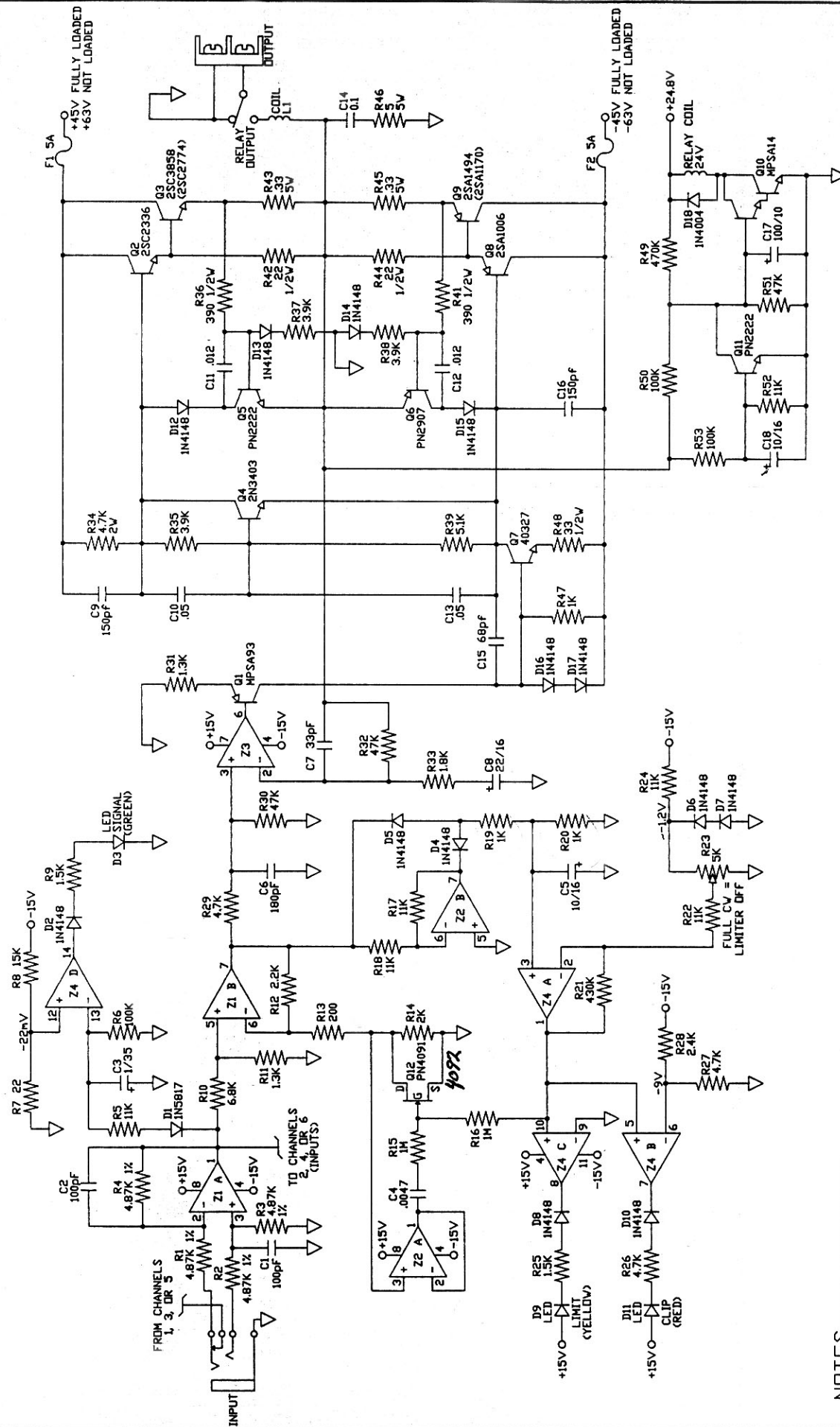
BUSS BD



AMP BD



QTY REQD		CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	
PARTS LIST					
CONTRACT NO.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
TOLERANCES ARE:					
FRACTIONS		DECIMALS	ANGLES		
±		±	±		
XXX ±		XXX ±	XXX ±		
MATERIAL					
FINISH					
DO NOT SCALE DRAWING					
NEXT ASSY USED ON APPLICATION					
DRAWN					
CHECKED					
APPROVALS					
DATE					
RANE CORP.					
MAG ASSY.					
SIZE CODE IDENT NO. DRAWING NO.					
C		A		522-009	
SCALE					
SHEET 1 OF 1					



NOTES (UNLESS OTHERWISE NOTED)

1. ALL RESISTORS 1/4W 5% CARBON FILM.
2. ALL SWITCHES SHOWN IN THEIR OUT OR OFF POSITION.
3. ONE CHANNEL SHOWN, TYPICAL OF SIX.
4. IC'S: Z1=555, Z2=555, Z3=LF351, Z4=LM324



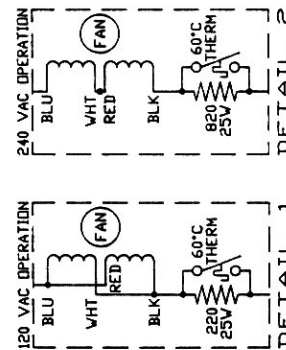
TITLE
SCHEMATIC
MA 6 AMP MODULE

REV. NO.
521-006
C

CORP. 6510 216th S.V. MOUNTLAKE TERRACE,
VA 98043 (206) 774-7309

DATE 23 JAN 87
APPROVED STB
DO NOT SCALE DRAWING

REVISIONS
REV. C
ACTION REDRAWN FOR CAD
DATE 22 JAN 87
CHECKED A. CLAYTON
SHEET 1 OF 2
DRAWN S. TURNIDGE



RANE

REV.	DRW. NO.
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REVISIONS	REV. B	ACTION REDRAWN FOR CAD
DRAWN S. TURNIDGE	DATE 28 JAN 87	CHECKED STB