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.

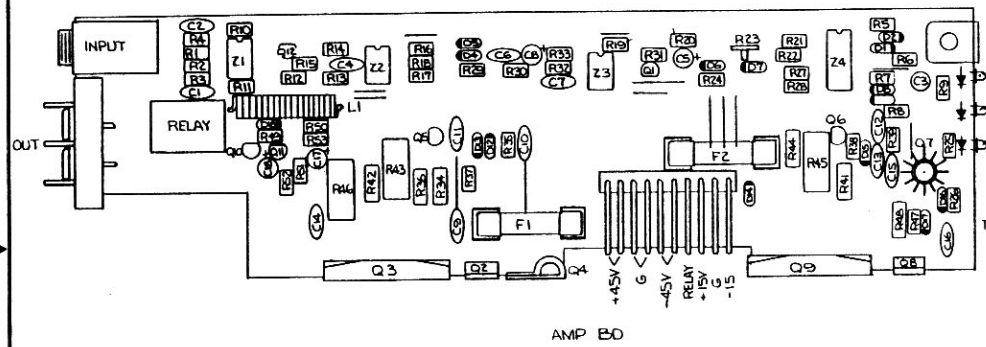
   e. Replace the seven screws on the front panel.

   f. Replace the input/output plate and bottom cover (don't forget the four screws holding the bottom cover to the side rails).

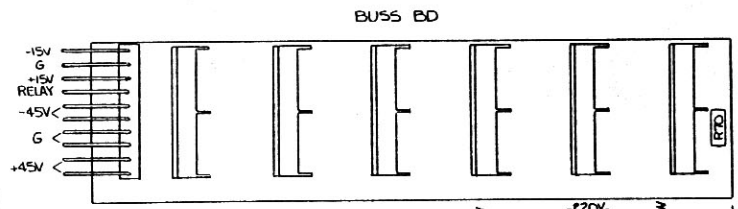
4. Power supply repairs.

   a. Power supply PCB: Do not attempt removal of this card. Instead, remove amplifier modules Xl 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

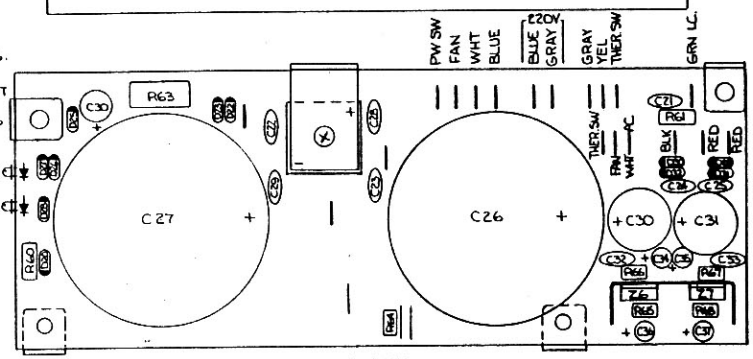
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
.				



AMP BD



BUSS BD



PW BD

QTY REQD	CODE IDENT	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± DECIMALS .XX ± .XXX ± ANGLES ±

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS	DATE
DRAWN SB	28 FEB 83
CHECKED	

RANE CORP.

MA6 ASSY.

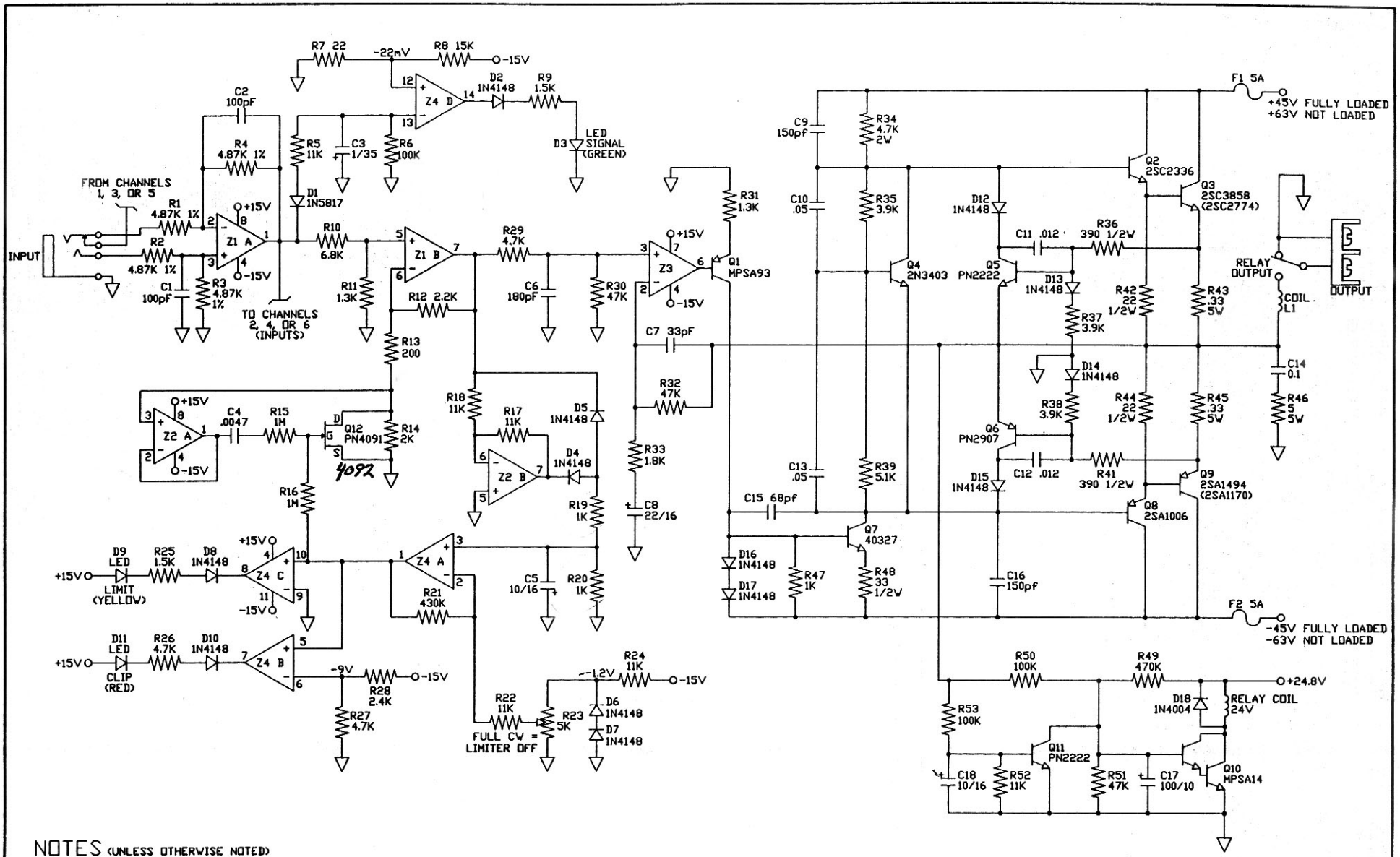
SIZE	CODE IDENT NO.	DRAWING NO.
C	A	522-009

SCALE

SHEET 1 OF 1

NEXT ASSY	USED ON

APPLICATION



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=5532 OR LM833
   Z2=4559
   Z3=LF351
   Z4=LM324

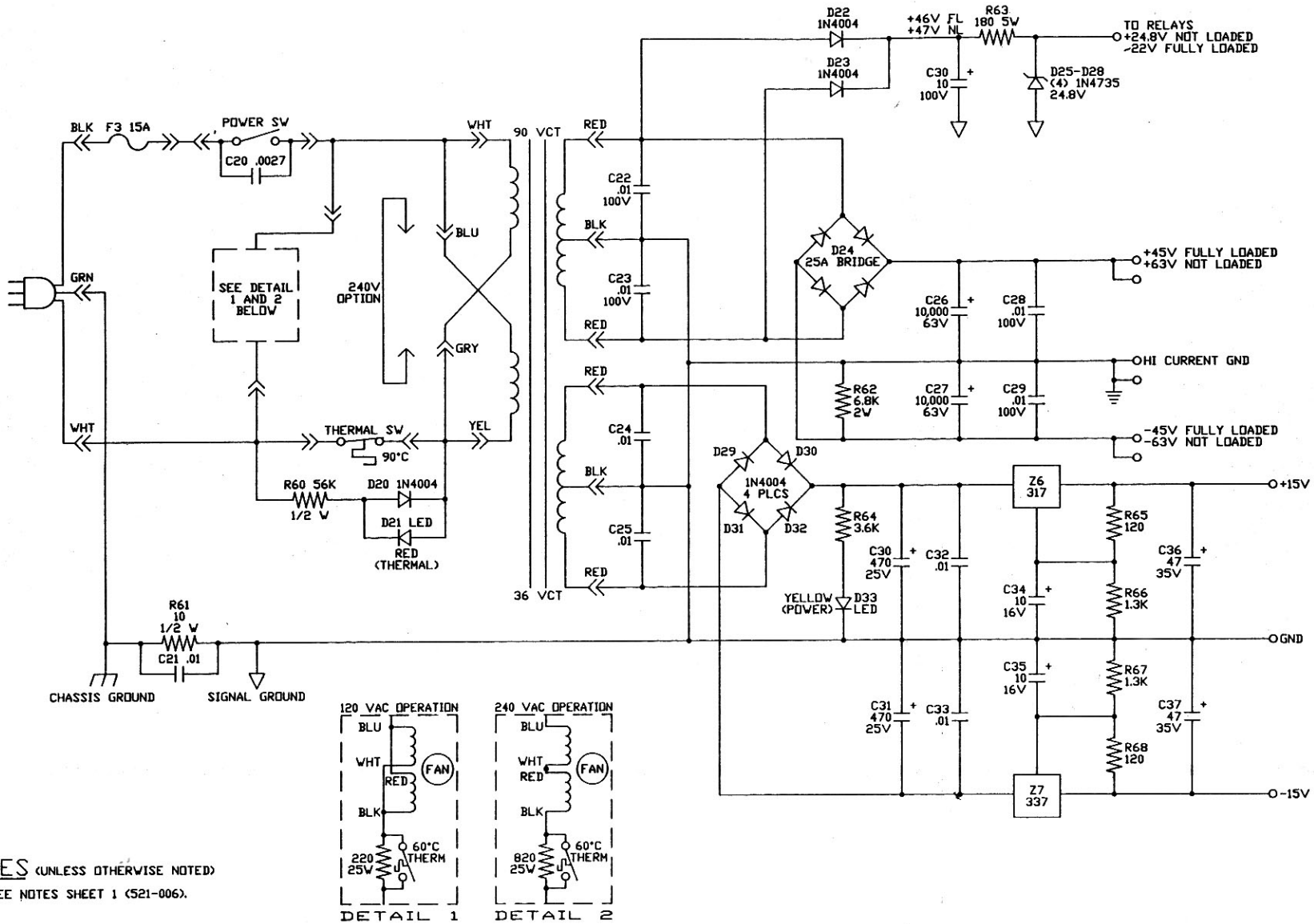
REVISIONS	REV. C	ACTION REDRAWN FOR CAD	DATE 23JAN87	APPROVED STB
DRAWN S. TURNIDGE	DATE 22JAN87	CHECKED A. CLAXTON DATE 23JAN87	SHEET 1 OF 2	DO NOT SCALE DRAWING

RANE
CORP. 6510 216th S.W. MOUNTLAKE TERRACE, WA 98043 (206) 774-7309

TITLE: SCHEMATIC
MA 6 AMP MODULE

DRW. NO. 521-006

REV. C



NOTES (UNLESS OTHERWISE NOTED)

1. SEE NOTES SHEET 1 (521-006).

REVISIONS	REV. B	ACTION REDRAWN FOR CAD		DATE 28JAN87	APPROVED STB
DRAWN S. TURNIDGE	DATE 28JAN87	CHECKED STB	DATE 28JAN87	SHEET 2 OF 2	DO NOT SCALE DRAWING

RANE
CORP. 6510 216th S.W. MOUNTLAKE TERRACE, WA 98043 (206) 774-7309

TITLE: SCHEMATIC MA 6 POWER SUPPLY

DRW. NO. 521-007

REV. B