Service Note

Product	Description:	Service note no.
D22	**Upgrade to 4 x Delay time (5200ms)**	**720 10 T0 46**

IMPORTANT:

This note only concerns units with serial no. lower than 2000990.
The upgrade should only be carried out by qualified technicians.
TC item numbers are shown in brackets ( )

Procedure:

- **Please follow steps A thru J if the serial number of the unit is higher than 2000376 or if the unit shows "2times delay expansion" at power-up.**

- **Please follow steps 1 thru 20 if the serial number of the unit is lower than 2000375 and the unit doesn't show "2times delay expansion" at power-up.**
  (The connector J13 is not mounted).

A. **Use a PCMCIA card to make a copy of the user presets.**
B. **Turn Off Power and Disconnect Power Cord.**
C. Remove the top lid by loosening five screws, see fig.1.
D. Replace the old Ex.RAM board at J13 with the new Ex.RAM board. See fig. 2.
E. Fasten the board to the metal spacer by use of 1 screw and 1 star washer. See fig 2.
F. Mount the foam piece on top of the Ex.RAM board in the end opposite of the screw if the foam wasn't fitted by TC. See fig. 2.
G. Mount the top lid.
H. Load in application software version 2.50 (or higher).
I. If necessary; load in the user preset. Presets are compatible.

J. Perform an audio test and verify that the signal now can be delayed up to 5200mS in both left and right side.
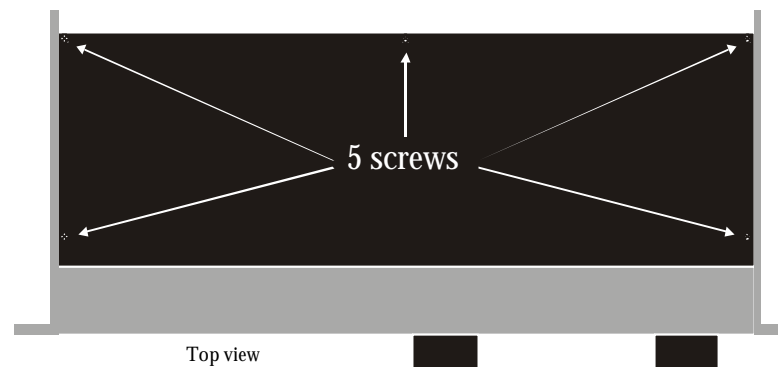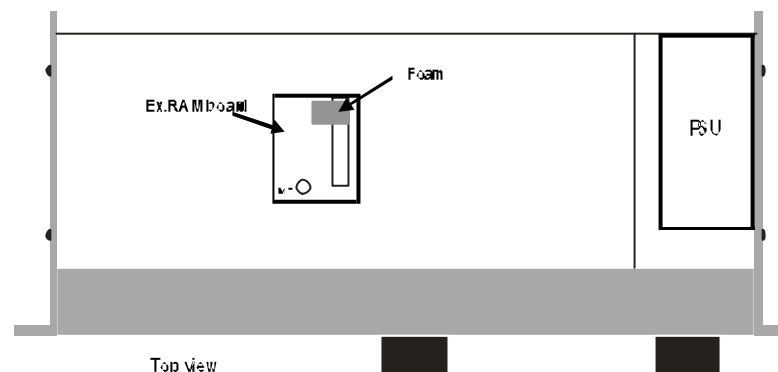

Fig. 1: Screws on top lid

Fig. 2: Location of Ex.RAM board and foam.

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Procedure, if connector J13 is not mounted.

1. **Use a PCMCIA card to make a copy of the user presets.**
2. **Turn Off Power and Disconnect Power Cord.**
3. Remove the top lid by loosening five screws, see fig.1.
4. Disconnect front connector, J1, see fig. 3.
5. Remove screws at MT7, MT8, MT2 on the main board.
6. Remove 9 screws at the XLR connectors, see fig. 5.
7. Remove the screw at the SPDIF in/out connector, see fig. 5.
8. Remove the nut at the SYNC IN connector, see fig. 5.
9. Remove the jack nut at the EXT. IN connector, see fig. 5.
10. Push the main board into the front profile a little to free the connectors from the back panel, then lift out the board.
11. Mount the metal spacer (566007030) at MT12 by use of 1 screw (563005030) and 1 star washer (565052030). See fig 4.
12. Solder in the new 68 pin connector (523056011) as J13
13. Mount the main board again.
14. Mount the new Ex.RAM board at J13. See fig. 2.
15. Mount the foam piece on top of the Ex.RAM board in the end opposite of the screw if the foam wasn't fitted by TC. See fig. 2.
16. Fasten the board to the metal spacer by use of 1 screw and 1 star washer. See fig 2.
17. Mount the top lid.
18. Load in application software version 2.50 (or higher)
19. If necessary; load in the user preset. Presets are compatible.
20. Perform an audio test and verify that the signal now can be delayed up to 5200mS in both left and right side.
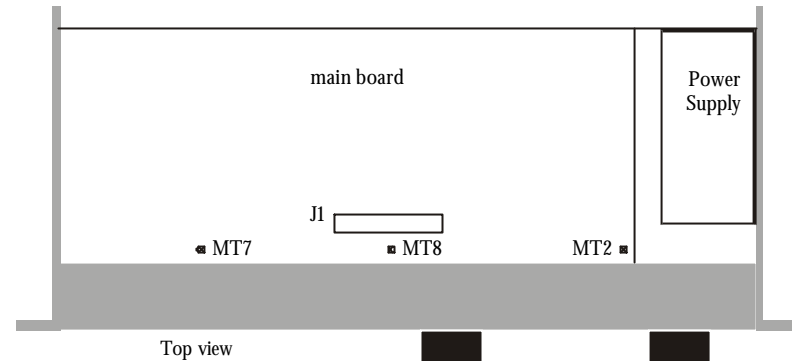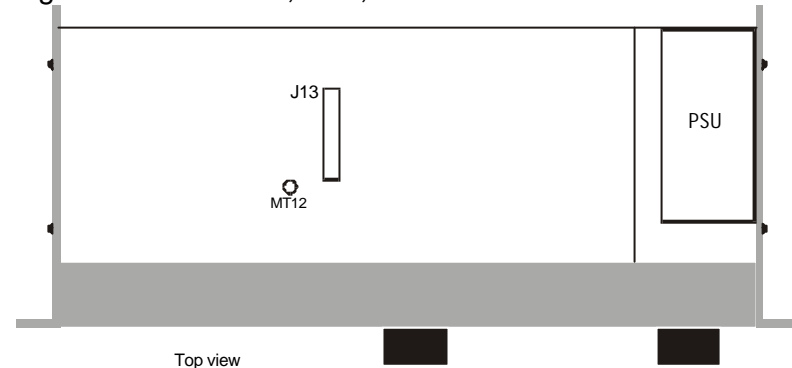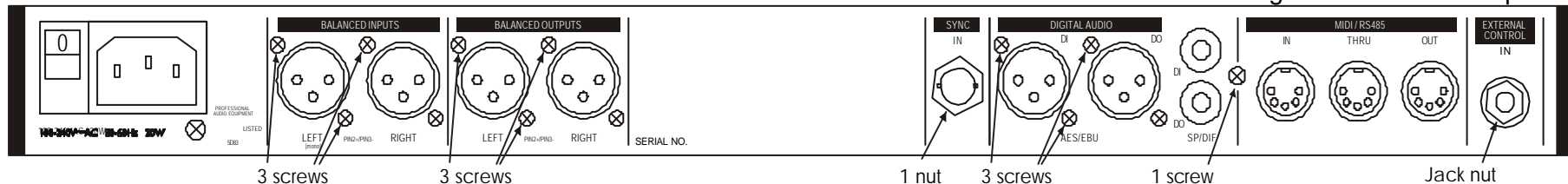
Fig. 3: Location of J1, MT7, MT8 and MT2

Fig. 4: Location of MT12 and J13.

Fig. 5: Screws at back panel.

3 screws   3 screws   1 nut   3 screws   1 screw   Jack nut

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Contents of Double Delay Time upgrade kit:

1 pc Ex.RAM board, PCB12907-A
          (with a piece of foam on top: 2cm x 576010011)
1 pc 523056011   68 pin connector
1 pc 566007030   Metal spacer
2 pcs 563005030   Screw
2 pcs 565052030   Star washer
1 pc Service note no. 720 10 10 02