

Service Information



NAKAMICHI

Model Nakamichi 700
Serial No. from 3712701

Subject Modifications of Tape from CrO2 to SX,
Time Constant and Other Modifications
Accompanied.

No. OOD-M-0027
Date 5 March 1976

1. General:

- 1.1. Nakamichi Reference Cassette Tape has been changed from CrO2 to SX. The SX tape has the following features:
 - a. Both sensitivity and maximum output level at high frequency are equal to those of CrO2 tape, and at middle and low frequency these will be increased approximately by 2 dB.
 - b. Shows less distortion than that of the conventional type CrO2 tape.
 - c. Head wear is similar to ferric oxide tapes.
(Note: By the re-adjustment of the record bias current, compatibility of SX tape to CrO2 tape will not be lost and the products which have already been sold to customers could also use the SX tape for the CrO2.)Details are explained in our Circular (No. 044, 20 February 1976).
- 1.2. Name plates of the tape position have been changed from "NORMAL" to "EX". And at EX position Nakamichi 700 will be tuned to the Nakamichi EXII Tape instead of the Nakamichi EX.
- 1.3. Since August 1975, the international standard of the playback equalization at low frequency against ferric oxide tapes has been changed to 3180 micro seconds from 1590 micro seconds. In accordance with the above change, we have changed the time constant of the EX position to (3180 μ s + 120 μ s) from (1590 μ s + 120 μ s).

And the time constant of the SX tape is (3180 μ s + 70 μ s).
Details are explained in our Circular (No. 043, 20 February 1976).

2. Tapes:

For SX Position:

Nakamichi SX Tape C-60 DAO3156A
Nakamichi SX Tape C-90 DAO3157A
TDK SA Tape C-60 and C-90
Reference SX Tape (for alignment) DAO9025A

For EX Position:

- Nakamichi EXII Tape C-60 DAO3153A
- Nakamichi EXII Tape C-90 DAO3154A
- Reference EXII Tape (for alignment) DAO9021A
- Nakamichi EX Tape and Others**

3. Adjustment for the SX tape:
Same as Cr02 tape.

4. Modifications:

Printed circuit board (P.C.B.) assembly and name plates have been modified.

4.1. Main P.C.B. Ass'y

Part No. BA-3759 (previous part No. BA-3700)

a. Modifications for SX tape (Record Cal. Circuit):

- R153,253: 6.8K to 8.2K
- R156,256: 8.2K to 10K
- C151,251: 5600P to 6800P
- C153,253: 1500P to 1000P
- R176,276: 47 ohm has been added to suppress the record peaking level.

b. Modifications for 3180us low frequency time constant (Record Cal. Circuit):

- R157,257: 1.5K to 1.8K
- C154,254: 1u to 1.5u
- Connector CN3 terminal No.7 and 9 have been cut.

c. Name Plate:

Level control panel has been changed from part No. M-3355 to M-3665.

4.2. Name Plate:

Service Manual Page	Schematic Ref. No.	Part No.	Descriptions	Q'ty
63	15	HA-3638	Control Panel Ass'y (Previous part No. HA-3627)	1

5. P.C.B. Assembly:

- Main P.C.B. Ass'y BA-3759
(For SX tape, refer to the parts list). See Fig. 1.
- P.B. Dolby P.C.B. Ass'y BA-3588
- Record Dolby P.C.B. Ass'y BA-3589

Main P.C.B. Ass'y

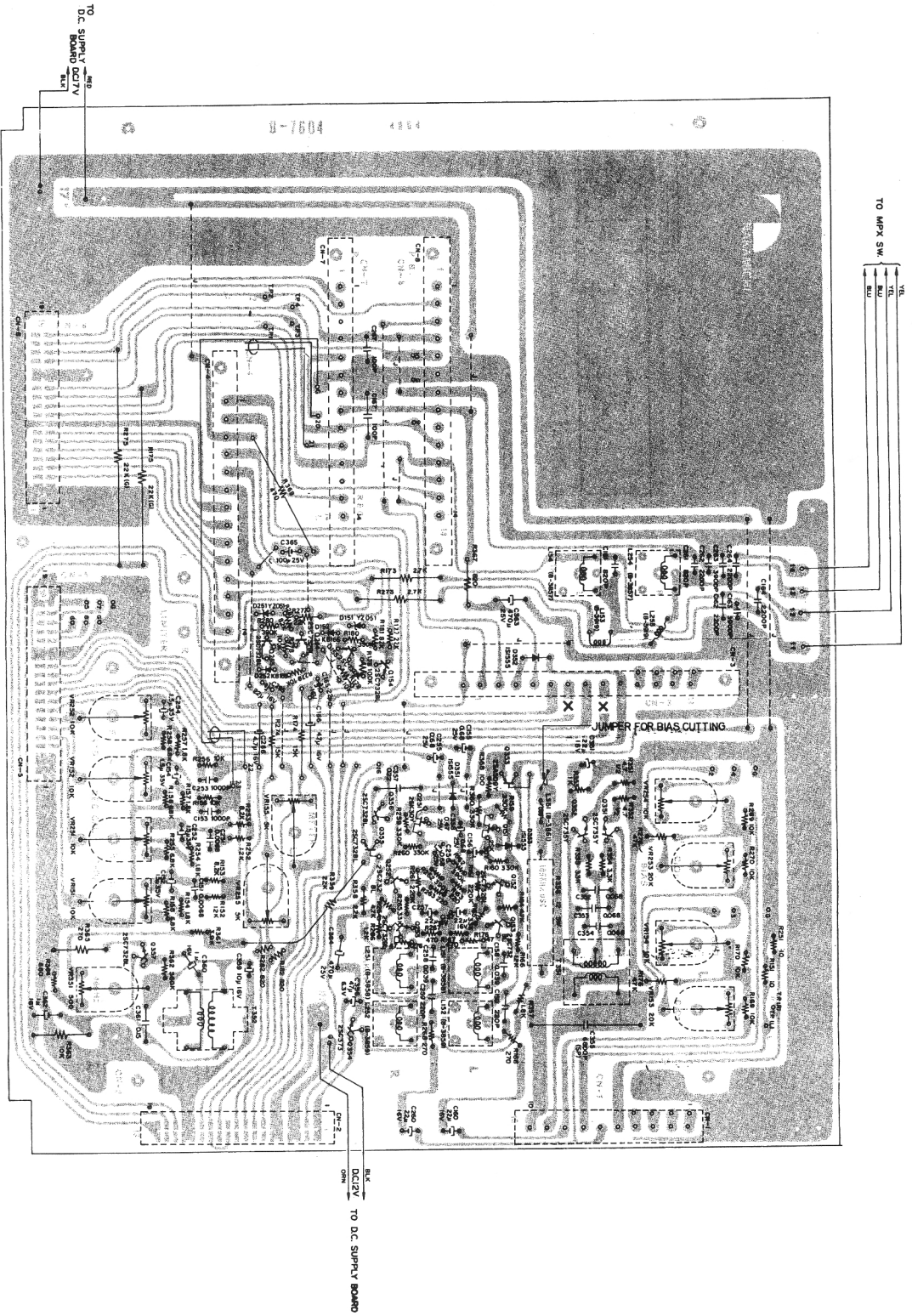


FIG. 1. Serial No. 3712701-

Amplifier Schematic Diagram

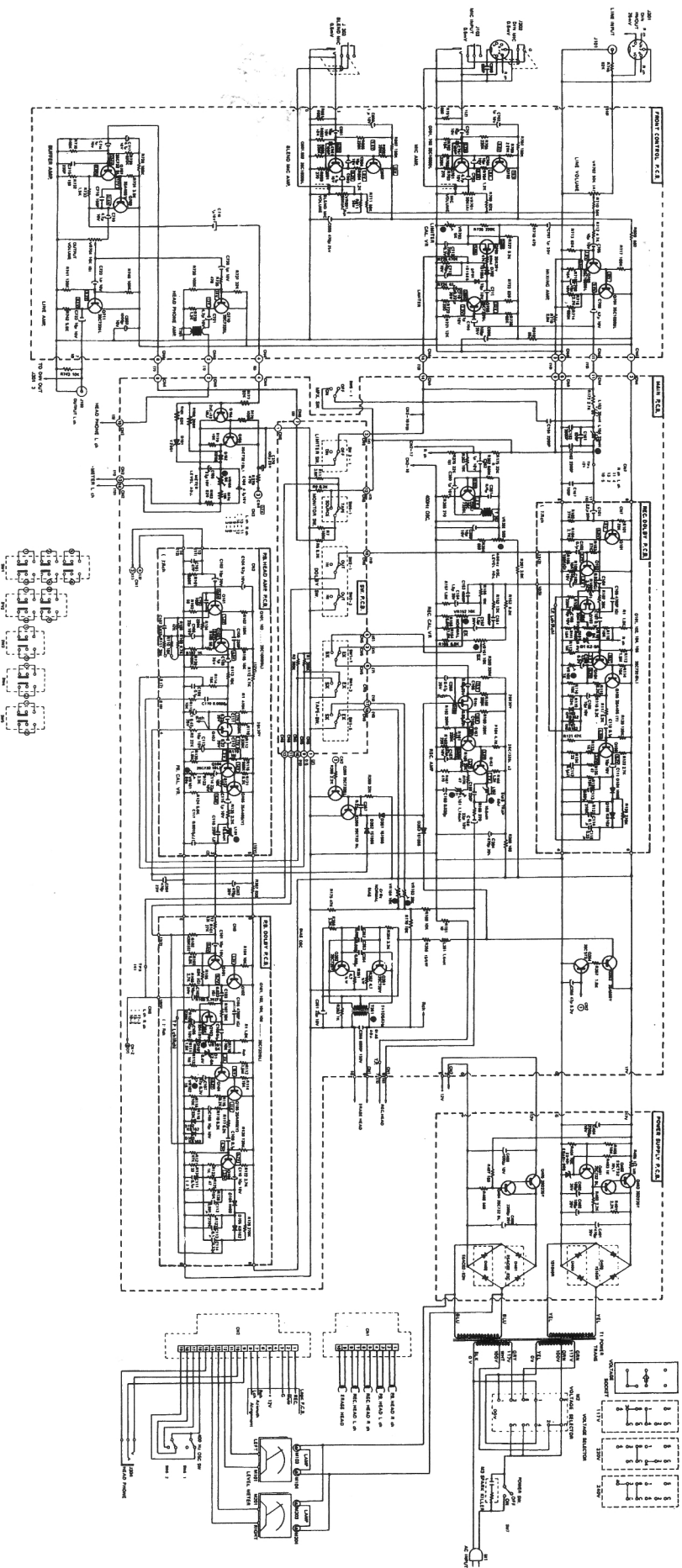


Fig. 2 Serial No. 3712701-