

Service Information



NAKAMICHI

Model Nakamichi 700
Serial No. from 3712701

Subject Modifications of Tape from Cr02 to SX,
Time Constant and Other Modifications
Accompanied.

No. QOD-M-0027
Date 5 March 1976

1. General:

- 1.1. Nakamichi Reference Cassette Tape has been changed from Cr02 to SX. The SX tape has the following features:
 - a. Both sensitivity and maximum output level at high frequency are equal to those of Cr02 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 Cr02 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 Cr02 tape will not be lost and the products which have already been sold to customers could also use the SX tape for the Cr02.)
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 DA03156A
Nakamichi SX Tape C-90 DA03157A
TDK SA Tape C-60 and C-90
Reference SX Tape (for alignment) DA09025A

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 (Previous part No. HA-3627)	Control Panel Ass'y	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

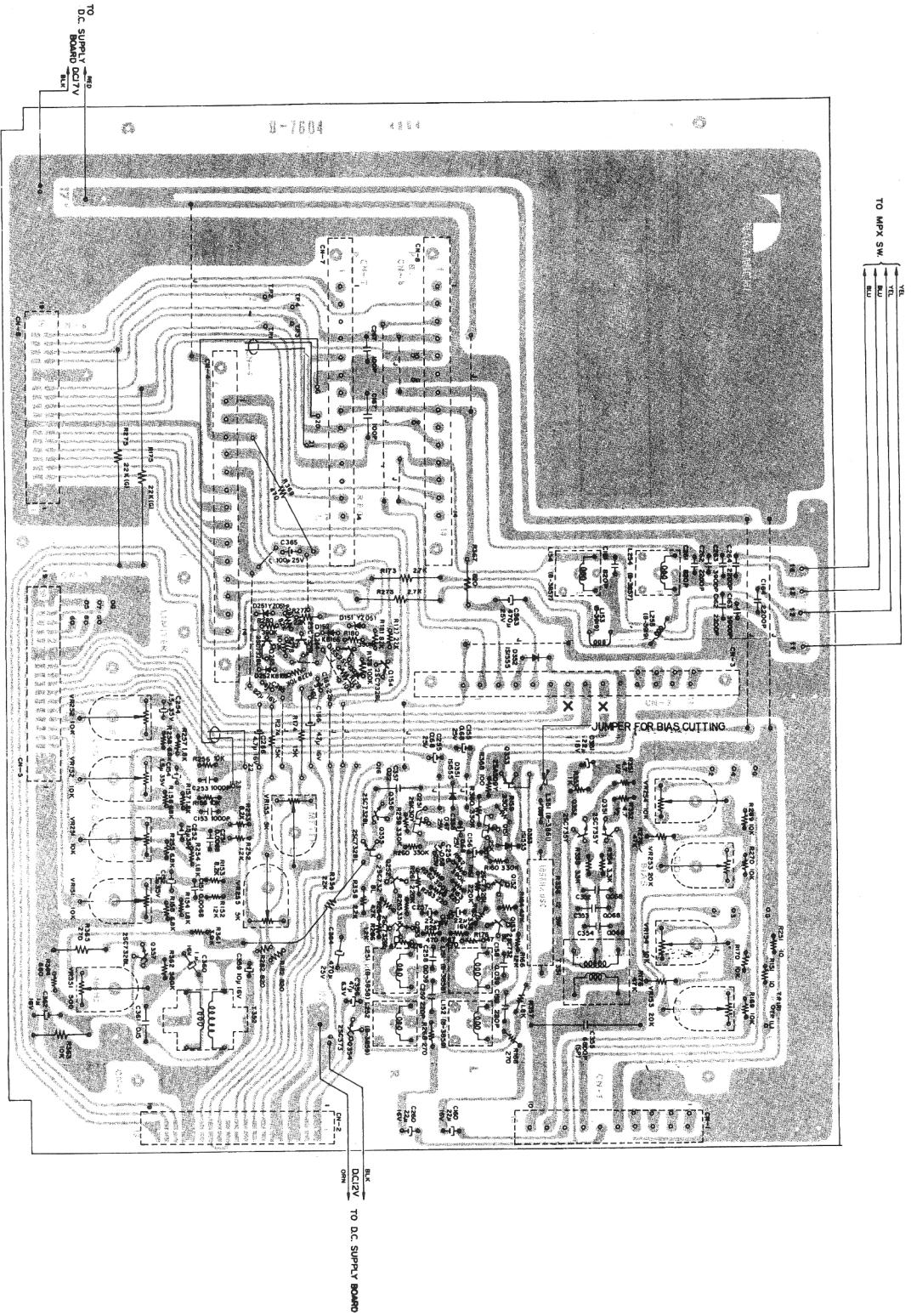


FIG. 1. Serial No. 3712701-

Amplifier Schematic Diagram

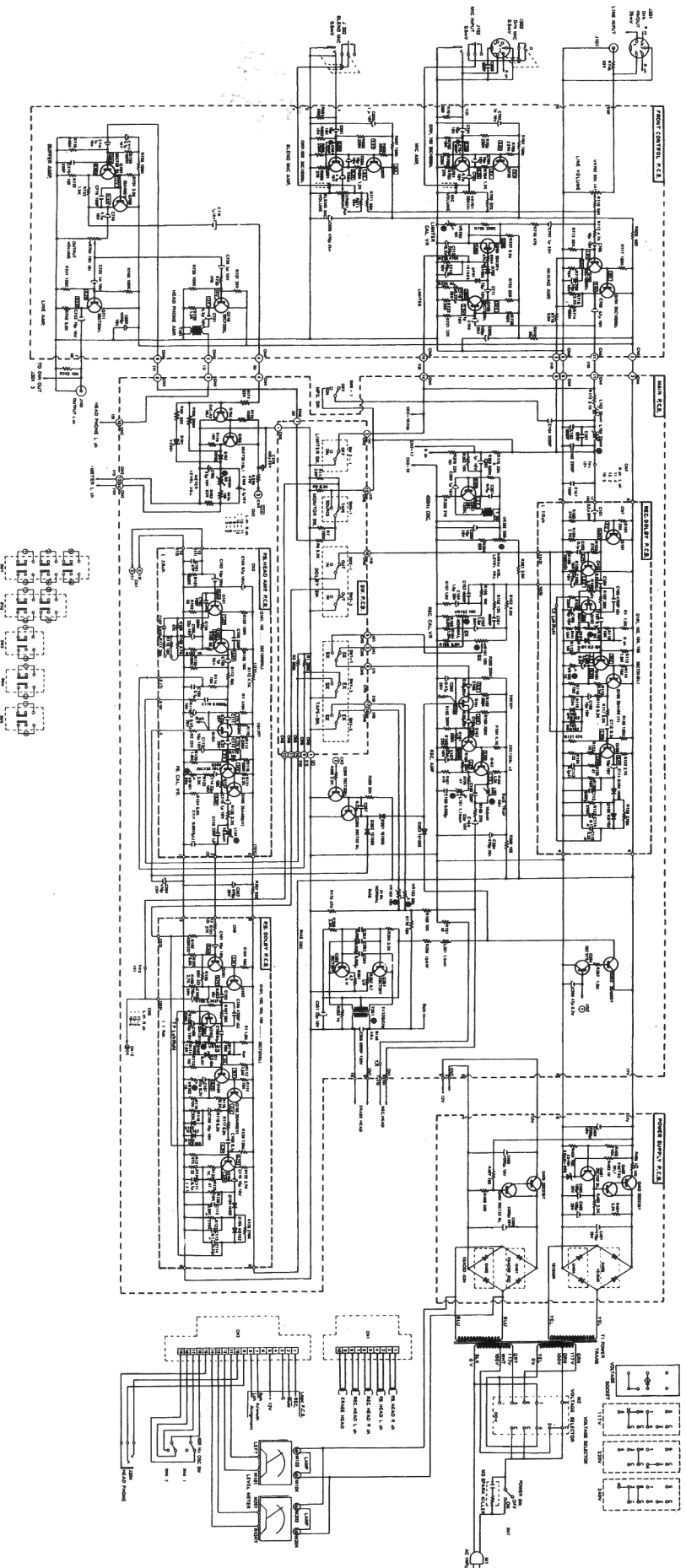


Fig. 2 Serial No. 3712701-