

Service Manual

Portable Stereo Component CD System

RX-DT670

Supplement

COMPACT
disc
DIGITAL AUDIOMASH*
multi-stage noise shaping

Colour

(K) ... Black Type

• Please file and use this Supplement Manual together with the Service Manual for Model No. RX-DT670P, PC-K Order No. MD9303016C1
RX-DT670GN-K MD9305028C3
RX-DT670GC-K MD9306037C3

Notes:

- This supplement is intended to provide additional information or corrections to the existing Service Manual for Model No. RX-DT670. Be sure to update your Service Manual for future reference.

Area

Suffix for Model No.	Area	Colour
(P)	U.S.A	(K)
(PC)	Canada	
(GC)	Third Region	
(GN)	Oceania	

- The IC Servo Processor IC702 (Part Number : MN66271RA) has been improved to include Automatic Adjustment of the Best Eye (Photo Detector Balance), therefore manual adjustment of Best-Eye through VR701 is not necessary anymore.
- This Supplement highlight the following changes along with the deletion of VR701.
 1. VR701 at Servo Circuit has been deleted.
 2. Best-Eye Adjustment procedure has been deleted from "Measurement and Adjustment".
 3. Some Components from the Servo Circuit have been changed, deleted or added.
 4. New Suffix number has been allocated for easy identification of new CD drive with deletion of VR701.
 5. Automatic Best-Eye Adjustment has been added to "Flow Chart on automatic sequence".

CHANGE IN REPLACEMENT PARTS LIST

Ref. No.	Change of Parts Number		Description	Remarks
	Original	➡ Supplement		
VARIABLE RESISTOR				
VR701	EVNDXAA00B14	_____	VR, Best Eye Adjustment	Deleted
RESISTORS				
R708	ERJ6GEYJ224V	ERJ6GEYJ104V	1/10W 100KΩ	Changed
R746	ERJ8GEYJ103V	_____	1/8W 10KΩ	Deleted
R747	ERJ6GEYJ473V	_____	1/10W 47KΩ	Deleted
CHIP JUMPERS				
RJ705	ERJ8GEY0R00A	_____	Chip Jumper	Deleted
RJ706	ERJ8GEY0R00A	_____	Chip Jumper	Deleted
RJ722	ERJ8GEY0R00A	_____	Chip Jumper	Deleted
CAPACITOR				
C748	ECUV1H271KBM	ECUV1H471KBN	470pF 50V	Changed
INTEGRATED CIRCUIT				
IC702	MN66271 or MN66271RA	MN66271RA	I.C, SERVO PROCESSOR	Changed

- The new IC Servo Processor MN66271RA can be used for both sets with VR701 and sets without VR701.
- The new Servo P.C.B. Assembly with deletion of VR701 has part number (REP1391A-1N).
- During earlier production, there were sets with MN66271RA used and VR701 still existing.
[In this case, please note that the Servo P.C.B. Assembly used being (REP1391A-N), manual Best-eye adjustment is still necessary.]

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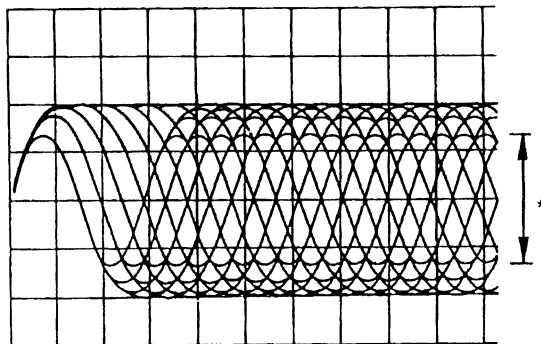
MEASUREMENTS AND ADJUSTMENTS

(2) BEST EYE (PD BALANCE) ADJUSTMENT

1. Connect the oscilloscope's CH. 1 probe across **TJ701** (+) and **TJ702** (VREF) (-) on the Servo P.C.B.

Oscilloscope setting:
 VOLT.....200mV
 SWEEP.....0.5μs.
 Input coupling.....AC.

2. Switch the player power ON, and play the 1 KHz (track 1) on the test disc (SZZP1054C).
3. Adjust VR701 until the vertical fluctuation of RF signal is minimized and the eye pattern is most stretched.

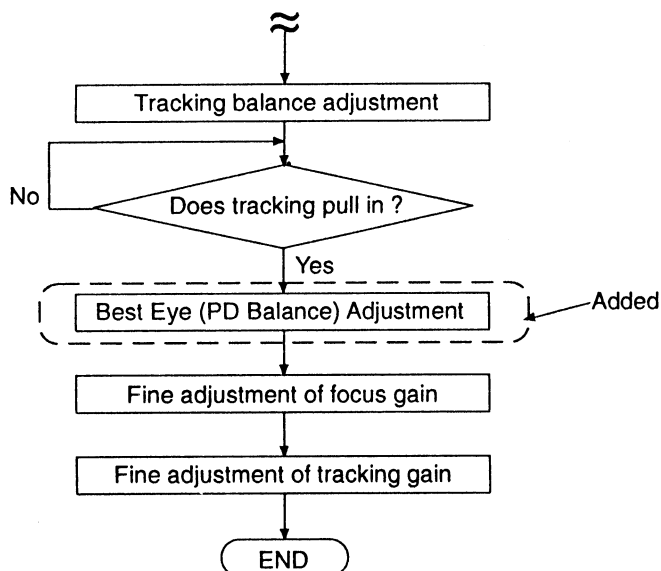


* Most stretched eye pattern

• Please ignore the above procedure for Best Eye Adjustment for sets with discontinuation of VR701 since Automatic Adjustment is implemented.

Addition

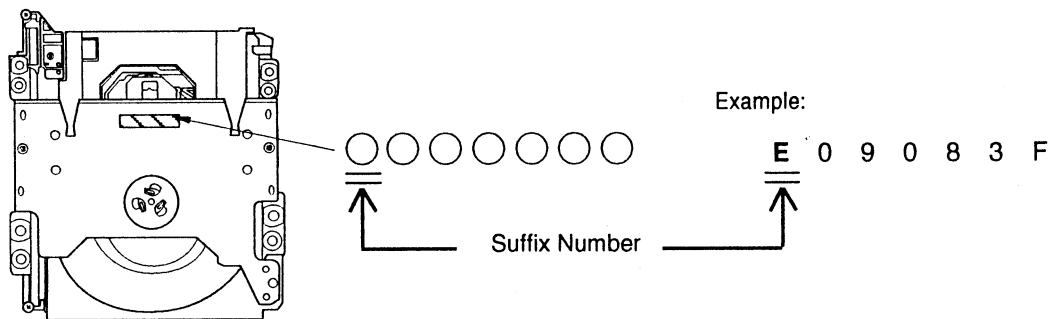
•Flow chart on automatic adjustment sequence



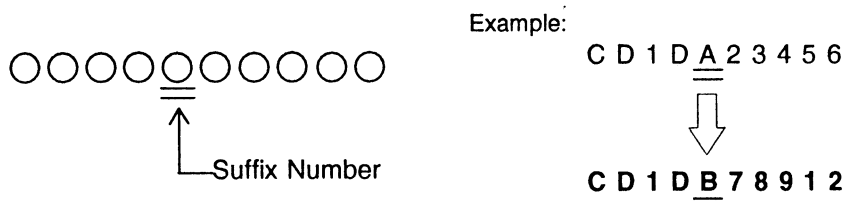
*Automatic Adjustment of Best Eye (PD Balance) is added to the Automatic Adjustment Flow Chart

How to identify the CD Units with discontinuation of Best-Eye Alignment

The CD Units with discontinuation of Best-Eye Alignment can be identified by the Suffix label printed at the location indicated below. A CD Unit with discontinuation of Best-Eye Alignment has "E" onwards suffix number printed at each CD Unit number.



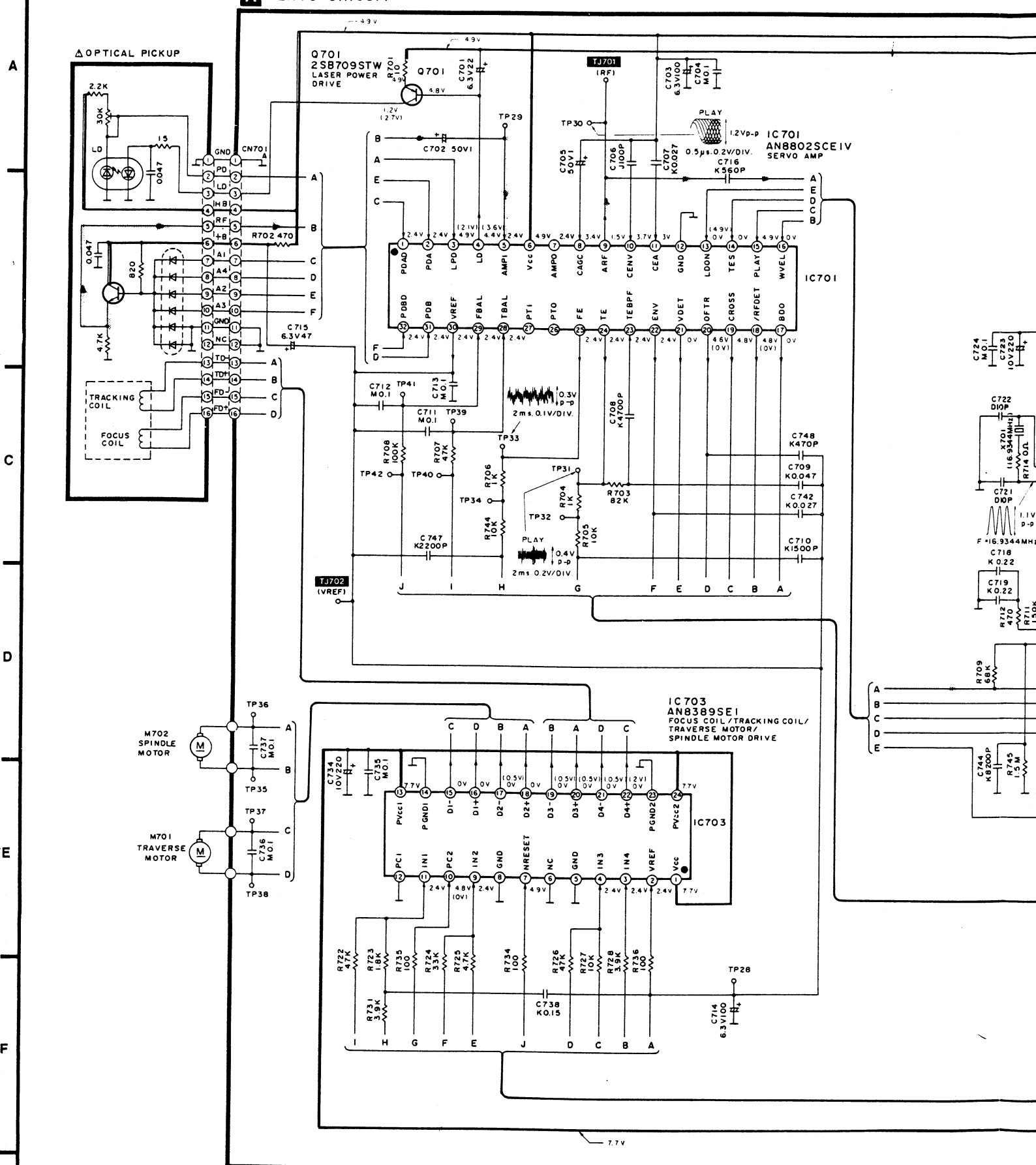
In addition, the suffix in the Serial Number at the rear of the Main unit is changed from A to B onwards as shown below.



SCHEMATIC DIAGRAM

(Please refer to the updated Schematic Diagram for CD Servo Circuit below
for units with discontinuation of Best-Eye Alignment)

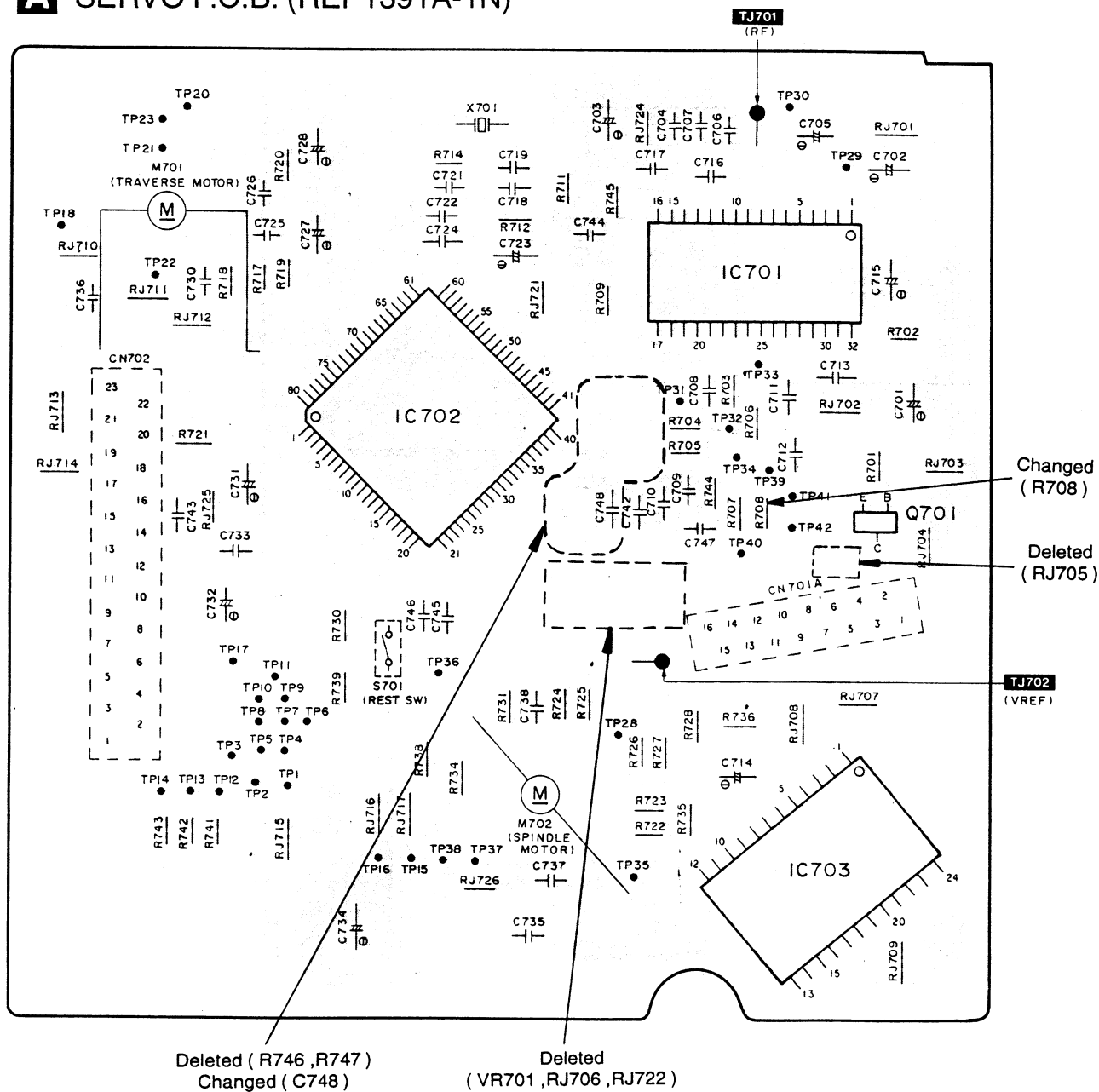
A SERVO CIRCUIT





PRINTED CIRCUIT BOARD DIAGRAM

A SERVO P.C.B. (REP1391A-1N)



Note: This Servo PCB diagram is shown as viewed from the copper pattern side.

• Terminal Guide of IC's, Transistors for Servo P.C.B.

