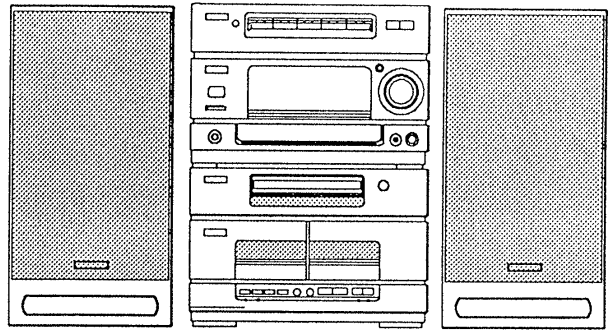


aiwa

NSX-D55

SERVICE MANUAL



COMPACT DISC STEREO SYSTEM

- BASIC TAPE MECHANISM : 1ZM - 7
- BASIC CD MECHANISM : KSL - 2101ABM

- TYPE. HS, HD

[SUPPLEMENT SERVICE MANUAL]

- Only the modification are stated in this manual. Use this manual with NSX - D55 Service Manual (S/M code No.0054).
- The RX - N55 in this Service Manual describes the difference between HS and HD, and HE. For FD - N55, refer to destinations HE and LH.
- Refer to NSX - D55 Service Manual (S/M code No.0054) when servicing SX - N55.

SYSTEM	AMPLIFIER/ TUNER	CASSETTE DECK/ CD PLAYER	REMOTE CONTROLLER	SPEAKER
NSX - D55 (TYPE. HS, HD)	RX - N55	FD - N55	RC - TX55	SX - N55

AIWA CO.,LTD.

Tokyo Japan

Printed in Japan

SPECIFICATIONS

STEREO RECEIVER RX-N55

<FM section>

Frequency range : HS : 87.5 MHz to 108 MHz
 HD : 76 MHz to 108 MHz
 Usable sensitivity (IHF) : 2.2 μ V (75 ohms) 18.2 dB
 Alternate channel selectivity : 50 dB (\pm 400 kHz)
 Signal-to-noise ratio : 70 dB (STEREO), 78 dB (MONO)
 Harmonic distortion : 0.3% (MONO), 1 kHz
 0.8% (STEREO), 1 kHz
 Frequency response : 20 Hz to 15 kHz
 (+ 0.5 dB, - 3 dB)
 Stereo separation : 40 dB at 1 kHz
 Antennas : 75 ohms (unbalanced)

<AM section>

Frequency range : 531 (530) kHz to 1,602
 (1,710) kHz
 Usable sensitivity : 400 μ V/m
 Selectivity : 22 dB (9 kHz)
 Signal-to-ratio : 53 dB (100 dB input)
 Antennas : Loop antenna

<VHF/UHF TV section, HD ONLY>

Reception channels : VHF : channels 1 - 12 (Japanese channels)
 UHF : channels 13 - 62 (Japanese channels)
 Sensitivity : VHF : 15 dB (75 Ω)
 UHF : 25 dB (75 Ω)
 Signal-to-noise ratio : 65 dB (VHF)
 Antenna : 75 Ω (non-parallel)
 (Common use with FM antenna terminal)

<Timer section>

Program timer : "Once" or "every"
 Sleep timer : Capable of setting in 10-minute
 increments, 99 minutes maximum

<Amplifier section>

Power output : HS :
 65 W + 65 W (6 ohms, T.H.D. 10% 1 kHz)
 HD :
 60 W + 60 W (6 ohms, T.H.D. 10% 1 kHz)
 Harmonic distortion : 0.05% (30 W, 1 kHz, 6 ohms)
 Input terminal (load impedance)
 : DAT/VIDEO1 : 300 mV (47 k ohms)
 : AUX/VIDEO2 : 400 mV (25 k ohms)
 Signal-to-noise ratio : 84 dB

<General>

Power requirements : HS : 110/220 V, 60 Hz
 HD : 100 - 120/220/240 V
 AC switchable, 50/60 Hz
 Power consumption : HS : 200 W
 HD : 110 W
 Dimensions (W x H x D)
 : 260 x 169 x 323.5 mm
 (10¹/₄ x 6³/₄ x 12³/₄ in)
 Weight : 5.7 kg (12.5 lbs.)

COMPACT DISC / STEREO CASSETTE DECK FD-N55

<Cassette deck section>

Track format : 4 tracks, 2channels
 Frequency response : METAL tape : 20-17,000 Hz
 CrO₂ TAPE : 20-16,000 Hz
 Normal tape : 20-15,000 Hz
 Signal-to-noise ratio : 65 dB (DOLBY NR ON, METAL tape peak
 level above 5 kHz)
 Wow and flutter : 0.16% (WRMS)
 Tape speed : 4.8 cm/sec. (1 ⁷/₈ ips)
 9.5 cm/sec. (double speed)
 Rewind time : 120 sec. (C-60)
 Fast forward time : 120 sec. (C-60)
 Recording system : AC bias
 Erase system : AC erase
 Motor : DC servomotor
 Heads : Playback head x 1 (deck 1)
 Record/playback/erase head x 1 (deck 2)

<CD player section>


Disc : Compact disc
 Scanning method : Non contact optical scanner
 (semiconductor laser application)
 Laser : Semiconductor laser (λ = 780 nm)
 Rotation speed : Approx. 500 rpm-200 rpm (CLV)
 Approx. 1,000 rpm-400 rpm
 (CLV, double speed)
 Error correction : Cross Interleave, Reed Solomon code
 No. of channel : 2 channels
 D-A conversion : 16-bit linear
 Wow and flutter : Unmeasurable
 Signal-to-noise ratio : HS : 92 dB (1 kHz, 0 dB)
 HD : 90 dB (1 kHz, 0 dB)
 Harmonic distortion : 0.05% (1 kHz, 0 dB)
 Low pass filter : 8 times digital filter + active filter
 Dimensions (W x H x D)
 : 260 x 169 x 313.5 mm
 (10¹/₄ x 6³/₄ x 12³/₈ in)
 Weight : 4 kg (8.8 lbs.)

SPEAKER SX-N55

Cabinet type : 3 way, bass reflex
 Speaker : 130 mm (5 ¹/₈ in) cone type woofer
 60 mm (2 ³/₈ in) cone type tweeter
 30 mm (1 ³/₁₆ in) ceramic type super tweeter
 Impedance : 6 ohm
 Music power : 70 W
 Output sound pressure level
 : HS : 90 dB/W/m
 HD : 87 dB/W/m
 Dimensions (W x H x D)
 : 210 x 338 x 237 mm (8³/₈ x 13³/₈ x 9³/₈ in)
 Weight : 3.4 kg (7.5 lbs.)

<COMMON SECTION>

Dimensions (W x H x D)
 : 680 x 338 x 323.5 mm
 (26⁷/₈ x 13³/₈ x 12³/₄ in) (vertical placement)
 : 940 x 169 x 323.5 mm
 (37 ¹/₈ x 6³/₄ x 12³/₄ in) (horizontal placement)
 Weight : 16.5 kg (36.3 lbs.)

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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MODEL No.

RX - X55

ALTERATION PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
===TUNER CIRCUIT BOARD SECTION(HD ONLY)===					
AP201	★81-MT3-655-010	AM PACK 1, S	C507	★87-010-198-010	CAP, CHIP S 0.022-25 B
AT101	★81-760-694-010	TERMINAL, PUSH 4P(ANTENNA)	C508	★87-010-401-010	CAP, ELECT 1-50 SME
C101	★87-010-197-010	CAP, CHIP S 0.01-25 B	C509	★87-010-197-010	CAP, CHIP S 0.01-25 B
C102	★87-010-197-010	CAP, CHIP S 0.01-25 B	C510	★87-010-247-010	CAP, ELECT 100-50 SME
C103	★87-010-197-010	CAP, CHIP S 0.01-25 B	C511	★87-010-164-010	CAP, CHIP S 68P-50 SL
C104	★87-010-400-010	CAP, ELECT 0.47-50 SME	C512	★87-010-164-010	CAP, CHIP S 68P-50 SL
C105	★87-010-260-010	CAP, ELECT 47-25 SME	C513	★87-010-164-010	CAP, CHIP S 68P-50 SL
C106	★87-010-197-010	CAP, CHIP S 0.01-25 B	C514	★87-010-197-010	CAP, CHIP S 0.01-25 B
C107	★87-010-196-010	CAP, CHIP S 0.1-25 F	C601	★87-012-141-010	CAP, CHIP S 0.22-16 F
C108	★87-010-197-010	CAP, CHIP S 0.01-25 B	C602	★87-010-198-010	CAP, CHIP S 0.022-25 B
C109	★87-010-196-010	CAP, CHIP S 0.1-25 F	C603	★87-010-404-010	CAP, ELECT 4.7-50 SME
C110	★87-010-197-010	CAP, CHIP S 0.01-25 B	C605	★87-010-197-010	CAP, CHIP S 0.01-25 B
C112	★87-010-196-010	CAP, CHIP S 0.1-25 F	C606	★87-015-819-010	CAP, CHIP 0.01BK
C201	★87-010-546-010	CAP, ELECT 0.33-50 SME	C607	★87-010-677-010	CAP, ELECT 0.15-50 7L
C202	★87-010-152-010	CAP, CHIP S 8P-50 CH	C608	★87-010-677-010	CAP, ELECT 0.15-50 7L
C204	★87-010-197-010	CAP, CHIP S 0.01-25 B	C609	★87-010-401-010	CAP, ELECT 1-50 SME
C205	★87-010-196-010	CAP, CHIP S 0.1-25 F	C610	★87-010-401-010	CAP, ELECT 1-50 SME
C213	★87-010-197-010	CAP, CHIP S 0.01-25 B	C611	★87-010-263-010	CAP, ELECT 100-10
C214	★87-010-404-010	CAP, ELECT 4.7-50 SME	C612	★87-010-197-010	CAP, CHIP S 0.01-25 B
C215	★87-010-405-010	CAP, ELECT 10-50 SME	C613	★87-010-313-010	CAP, CHIP S 18P-50 CH
C216	★87-010-544-010	CAP, ELECT 0.1-50	C614	★87-010-263-010	CAP, ELECT 100-10
C217	★87-010-403-010	CAP, ELECT 3.3-50 SME	C617	★87-010-402-010	CAP, ELECT 2.2-50 SME
C218	★87-010-197-010	CAP, CHIP S 0.01-25 B	C621	★87-016-083-010	CAP, CHIP S 0.15-16 RK
C301	★87-010-197-010	CAP, CHIP S 0.01-25 B	C622	★87-016-083-010	CAP, CHIP S 0.15-16 RK
C302	★87-010-374-010	CAP, ELECT 47-10	C625	★87-010-170-010	CAP, CHIP S 220P-50 SL
C303	★87-010-197-010	CAP, CHIP S 0.01-25 B	C701	★87-010-400-010	CAP, ELECT 0.47-50 SME
C304	★87-010-197-010	CAP, CHIP S 0.01-25 B	C702	★87-010-400-010	CAP, ELECT 0.47-50 SME
C305	★87-010-197-010	CAP, CHIP S 0.01-25 B	C705	★87-010-401-010	CAP, ELECT 1-50 SME
C306	★87-010-382-010	CAP, ELECT 22-25 SME	C706	★87-010-401-010	CAP, ELECT 1-50 SME
C307	★87-010-197-010	CAP, CHIP S 0.01-25 B	C707	★87-010-179-010	CAP, CHIP S 1200P-50 B
C308	★87-010-172-010	CAP, CHIP S 330P-50 SL	C708	★87-010-179-010	CAP, CHIP S 1200P-50 B
C309	★87-010-405-010	CAP, ELECT 10-50 SME	C709	★87-010-184-010	CAP, CHIP S 3300P-50 B
C310	★87-010-401-010	CAP, ELECT 1-50 SME	C710	★87-010-184-010	CAP, CHIP S 3300P-50 B
C311	★87-010-401-010	CAP, ELECT 1-50 SME	C712	★87-010-452-010	CAP, CHIP 1-16 F
C312	★87-010-197-010	CAP, CHIP S 0.01-25 B	C714	★87-010-197-010	CAP, CHIP S 0.01-25 B
C401	★87-010-401-010	CAP, ELECT 1-50 SME	C752	★87-010-263-010	CAP, ELECT 100-10
C402	★87-010-403-010	CAP, ELECT 3.3-50 SME	C753	★87-010-263-010	CAP, ELECT 100-10
C403	★87-014-057-010	CAP, PP 1000P-100 J	CF211	★82-794-670-010	FILTER, CERAMIC BFU450C4N
C404	★87-010-405-010	CAP, ELECT 10-50 SME	CF301	★87-008-335-010	FILTER, CERAMIC 10.7MA5-H W
C405	★87-010-178-010	CAP, CHIP S 1000P-50 B	CF302	★87-008-335-010	FILTER, CERAMIC 10.7MA5-H W
C406	★87-010-178-010	CAP, CHIP S 1000P-50 B	CF601	★87-030-257-010	VIB, CERAMIC CSA 3.60MGF
C407	★87-010-403-010	CAP, ELECT 3.3-50 SME	FE101	★80-VT1-606-110	FE PACK FVU-J15P
C408	★87-010-403-010	CAP, ELECT 3.3-50 SME	L211	★81-MT3-656-010	FILTER PCFMT-039 450
C451	★87-010-248-010	CAP, ELECT 220-10 SME	L301	★81-631-611-010	COIL QUAD(SINGLE)
C452	★87-010-178-010	CAP, CHIP S 1000P-50 B	L302	★87-003-098-010	COIL 2.2UH
C455	★87-010-265-010	CAP, ELECT 33-16 SME	L451	★87-003-131-010	COIL 10MH J
C456	★87-010-405-010	CAP, ELECT 10-50 SME	L501	★87-003-098-010	COIL 2.2UH
C458	★87-010-181-010	CAP, CHIP S 1800P-50 B	L701	★81-631-643-010	COIL
C459	★87-010-181-010	CAP, CHIP S 1800P-50 B	L702	★81-631-643-010	COIL
C460	★87-014-055-010	CAP, PP 820P-100 J	SFR211	★87-024-174-010	SFR 33K
C501	★87-010-197-010	CAP, CHIP S 0.01-25 B	SFR401	★87-024-171-010	SFR 4.7K
C502	★87-010-197-010	CAP, CHIP S 0.01-25 B	TC501	★87-011-221-010	CAP, TRIMMER 30P
C503	★87-010-197-010	CAP, CHIP S 0.01-25 B	X501	★87-030-122-010	VIB, XTAL 7.2MHZ
C504	★87-010-263-010	CAP, ELECT 100-10	===PT-1 CIRCUIT BOARD SECTION===		
C505	★87-010-197-010	CAP, CHIP S 0.01-25 B	ΔPT101	★81-MT3-666-019	POWER TRANSFORMER HS(HS)
C506	★87-010-317-010	CAP, CHIP S 39P-50 CH	ΔPT101	★81-MT3-603-010	POWER TRANSFORMER HD(HD)

REF. NO. PART NO. DESCRIPTION

===PT-2 CIRCUIT BOARD SECTION===

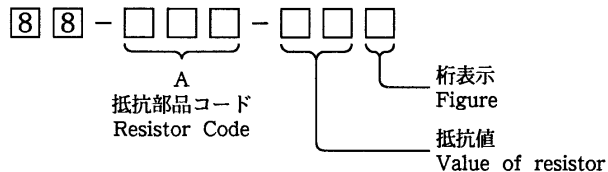
△SW300 87-036-229-019 SW, SLIDE (AC VOLTAGE) (HE, LH, HS)
 △SW300 87-036-235-019 SW, SLIDE (AC VOLTAGE) (U, HD)

===MISCELLANEOUS===

△ ★81-MX4-736-019 AC CORD H (HS)
 △ ★82-187-797-019 AC CORD E (HE, E, Z, HD)

○ チップ抵抗部品コード / CHIP RESISTOR PART CODE

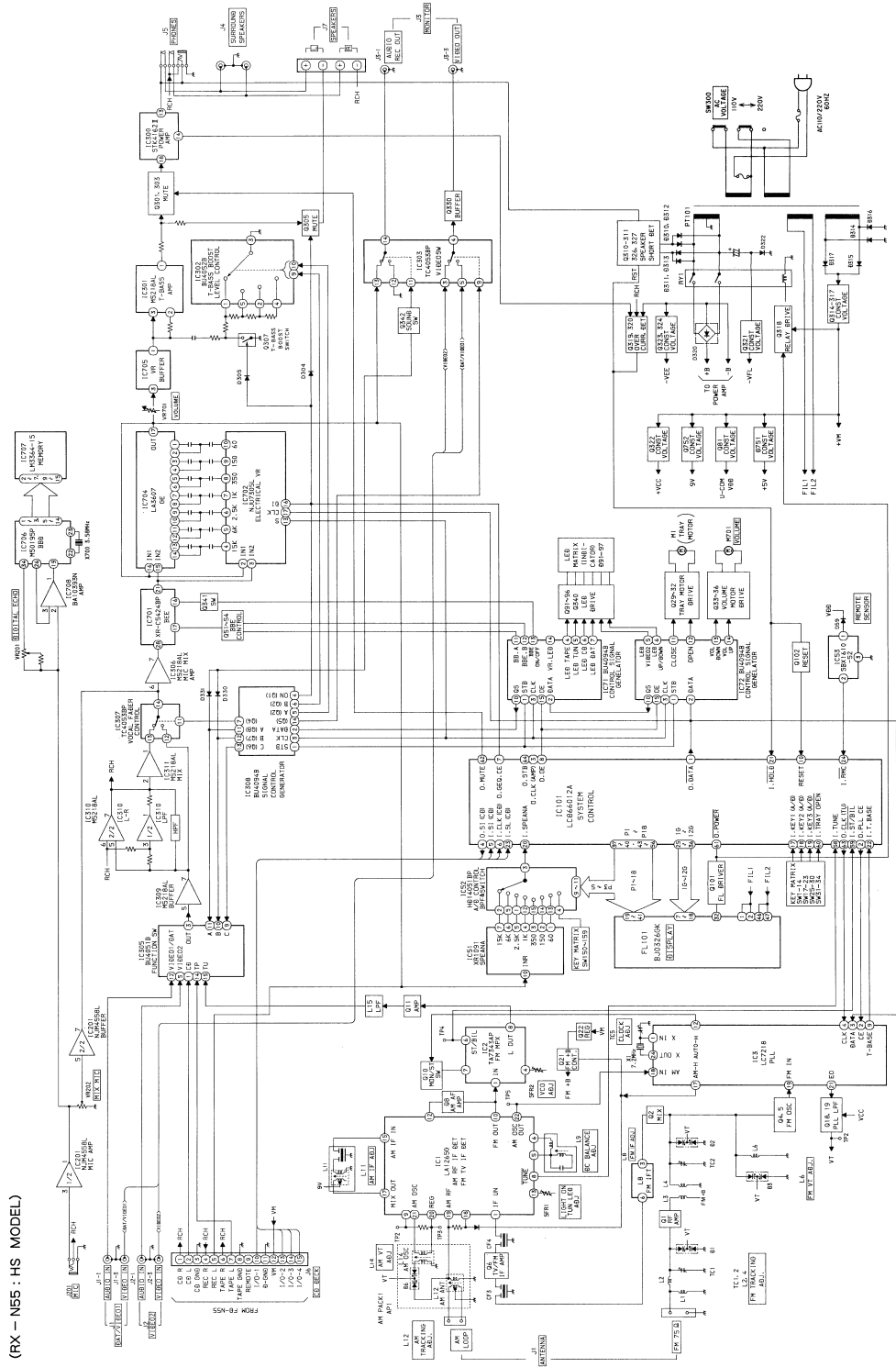
チップ抵抗部品コードの成り立ち
 Chip Resistor Part Coding



チップ抵抗
 Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions / 寸法 (mm)			Resistor Code : A 抵抗コード : A	
				Form / 外形	L	W		t
1/32W	1608	± 5 %	CJ		1.6	0.8	0.35	108
1/10W	2125	± 5 %	CJ		2	1.25	1.45	118
1/8W	3126	± 5 %	CJ		3.2	1.6	0.5 ~0.7	128

BLOCK DIAGRAM - 1 (RX - N55 : HS MODEL)

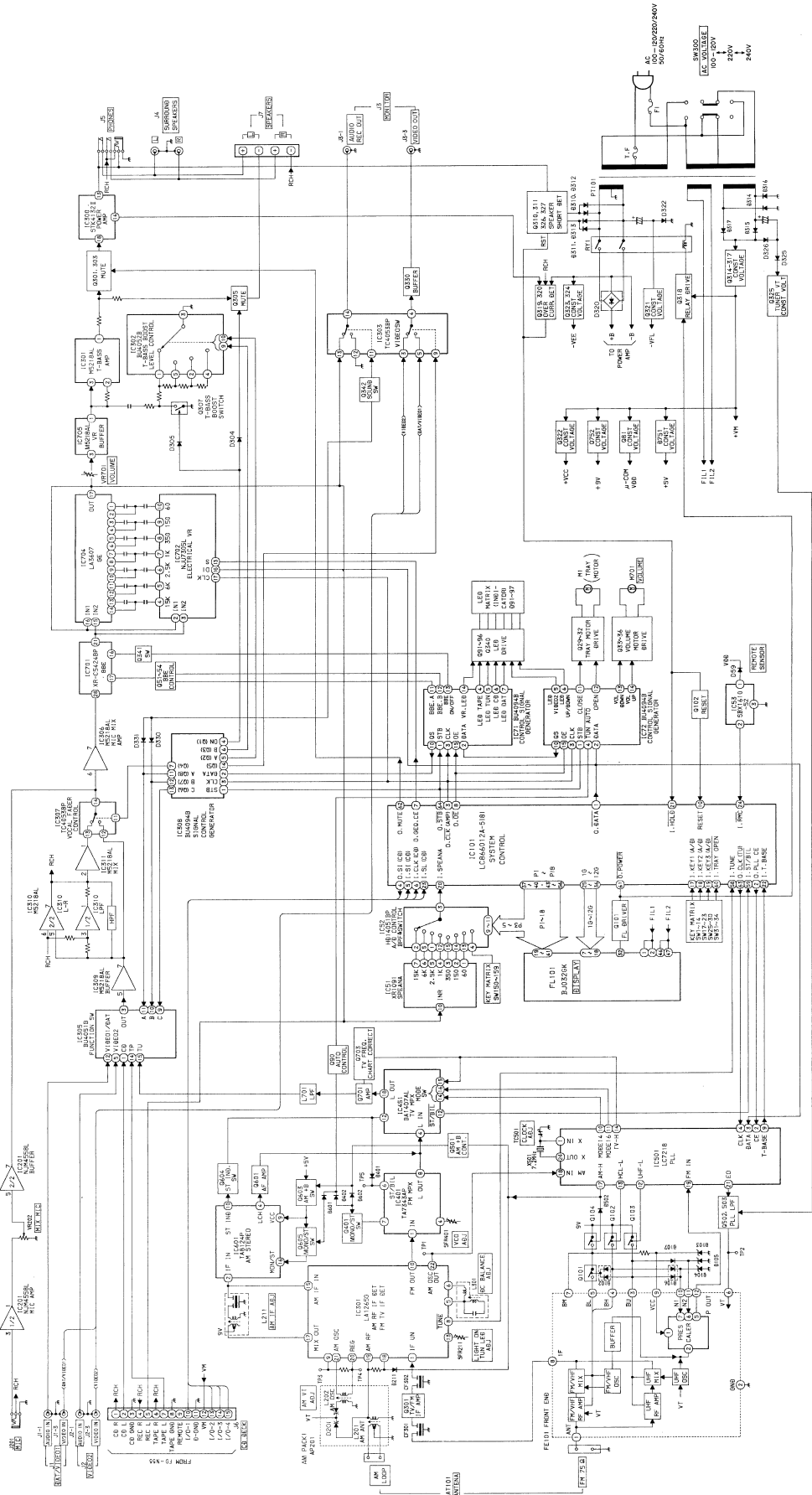


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6

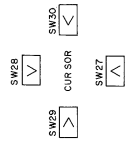
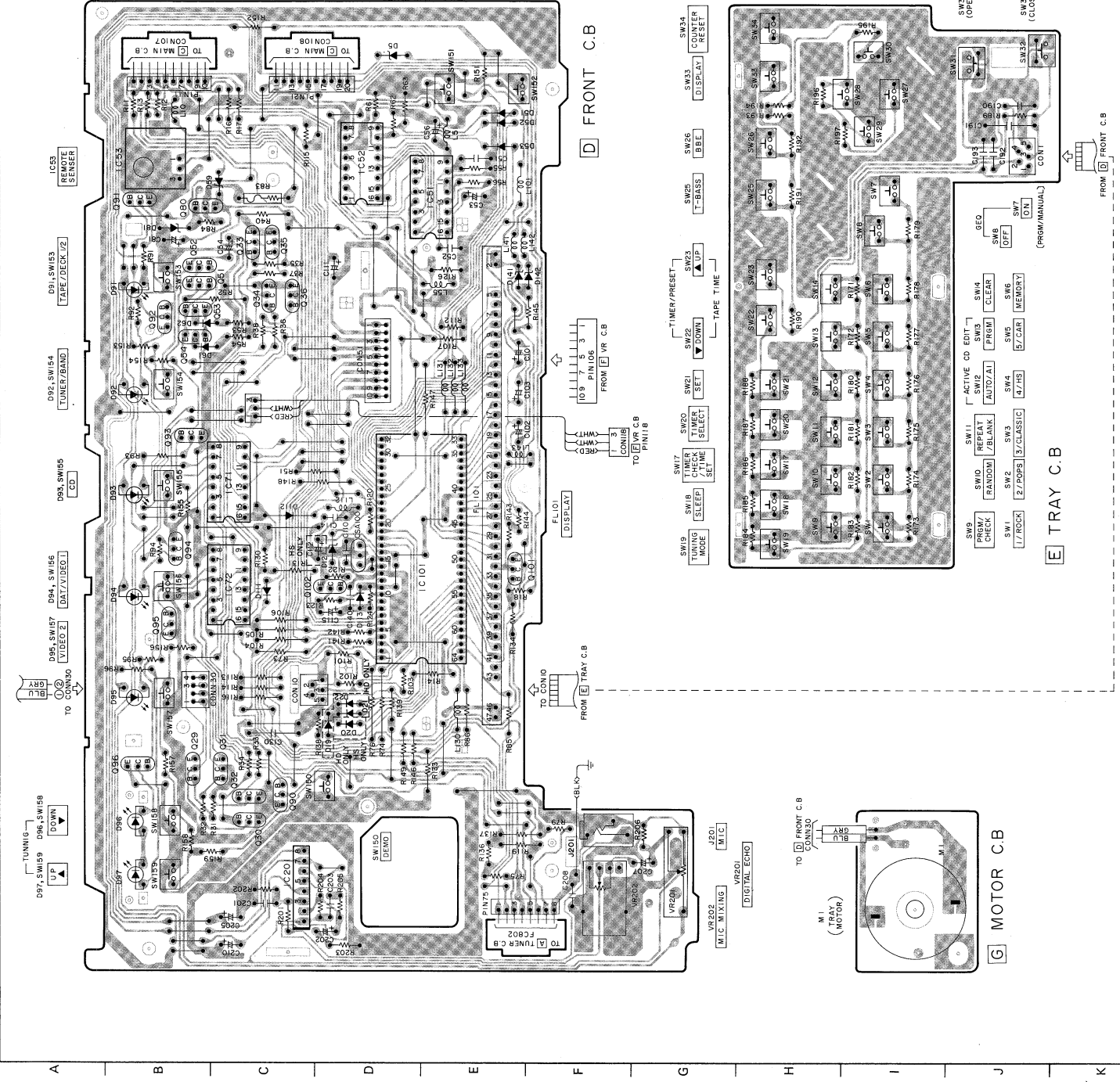
7

BLOCK DIAGRAM - 2 (RX - N55 : HD MODEL)



WIRING - 1 (RX - N55 : FRONT)

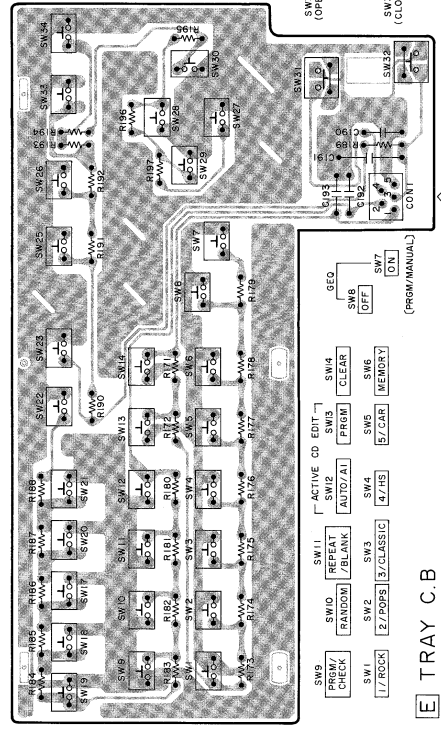
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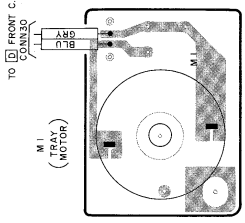
D FRONT C.B



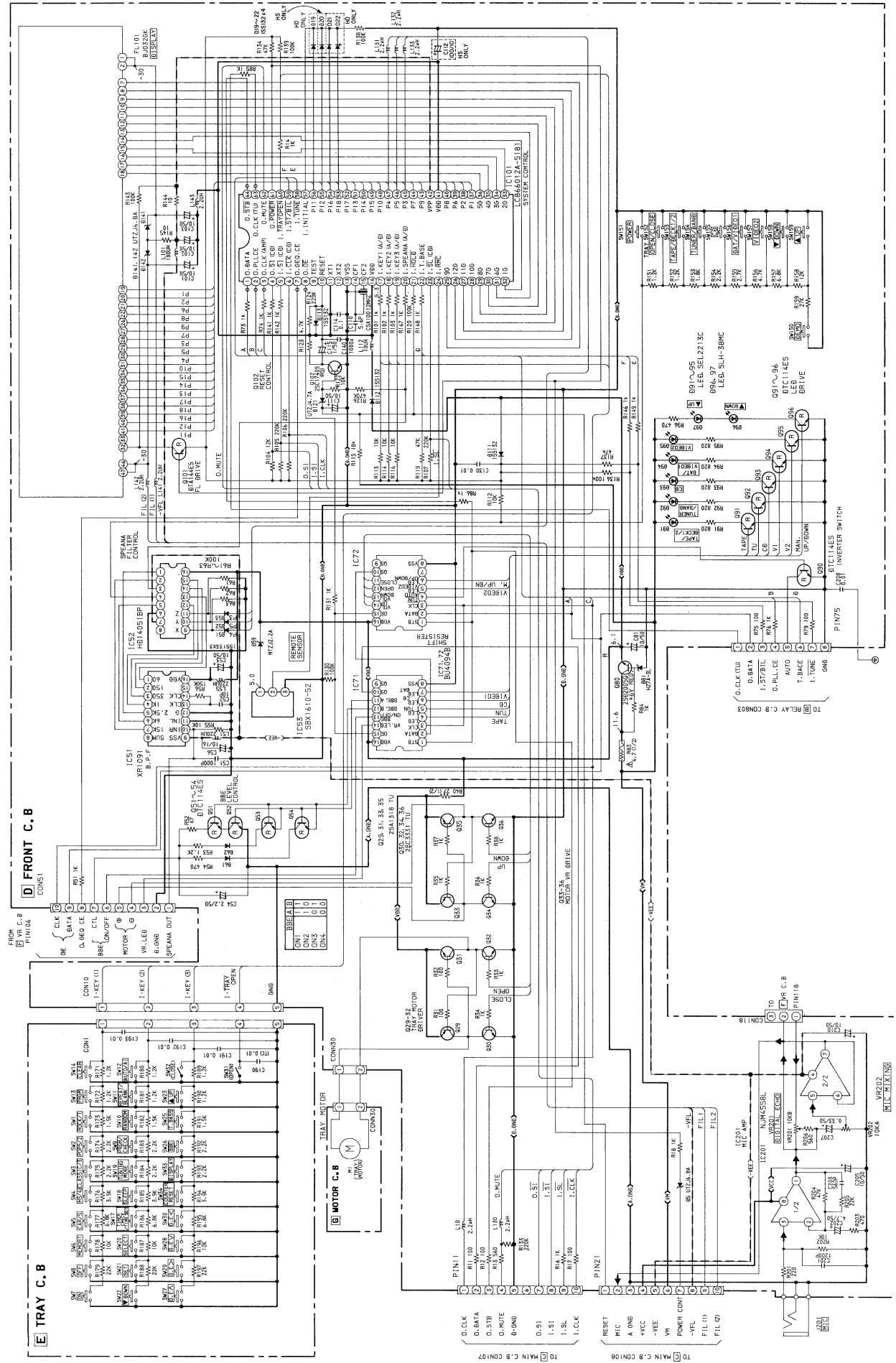
E TRAY C.B

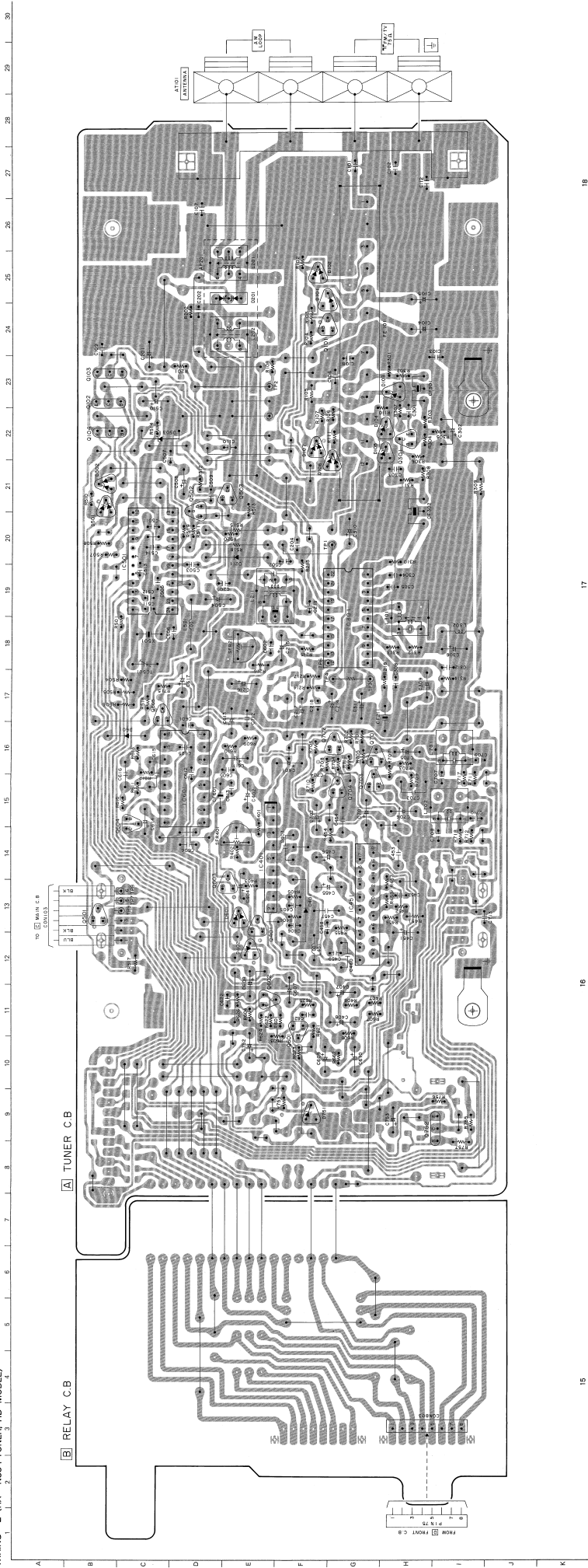


G MOTOR C.B

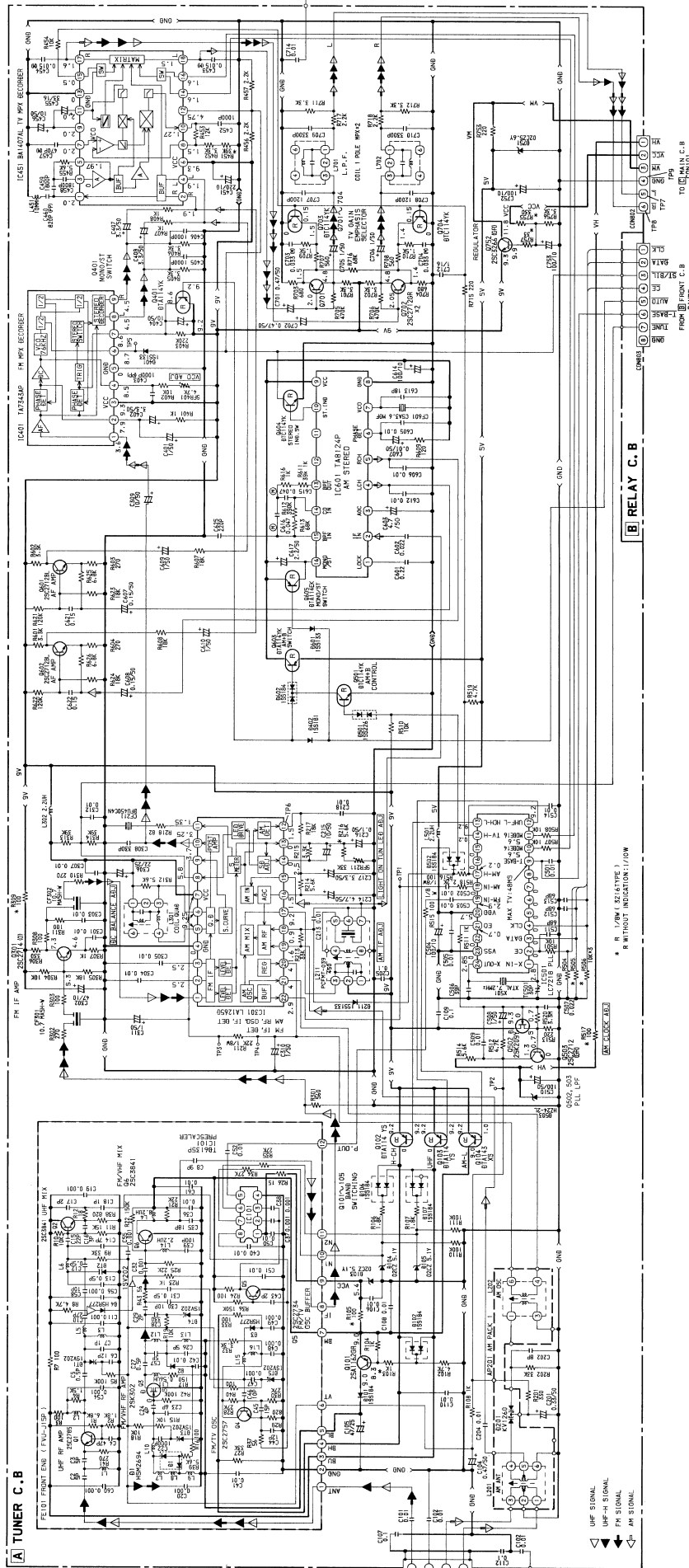


SCHEMATIC DIAGRAM - 1 (RX - N55 : FRONT)



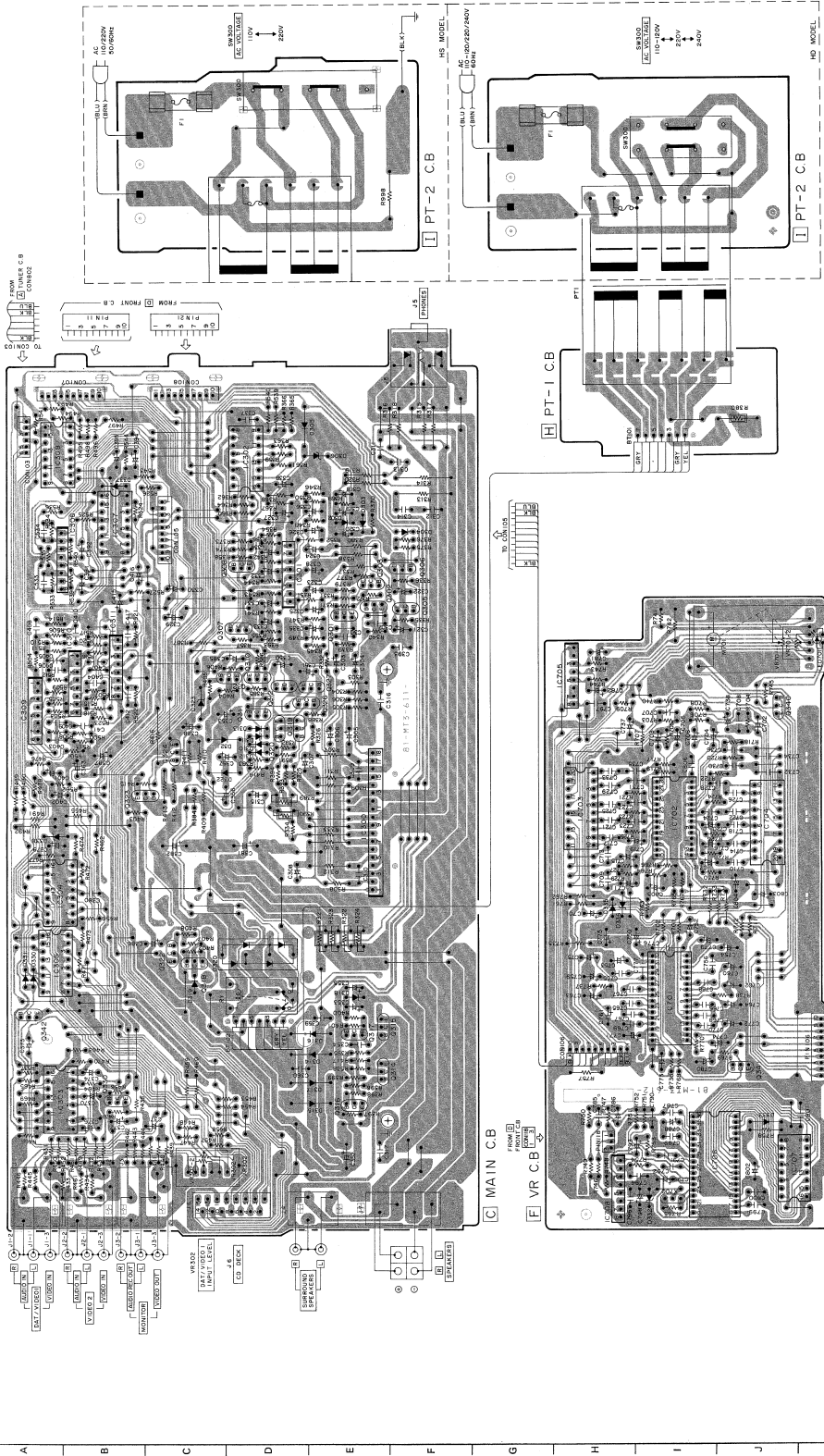


SCHEMATIC DIAGRAM - 2 (RX - N55 : TUNER, HD MODEL)



WIRING - 3 (RX - N55 - MAIN)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22



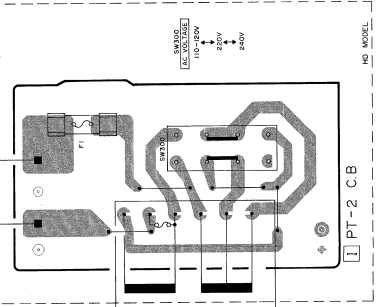
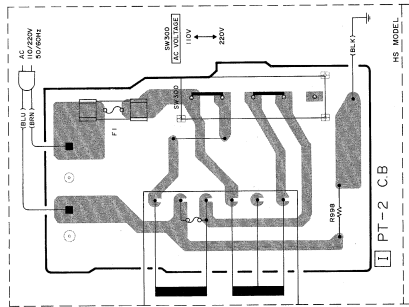
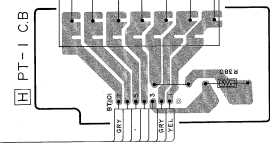
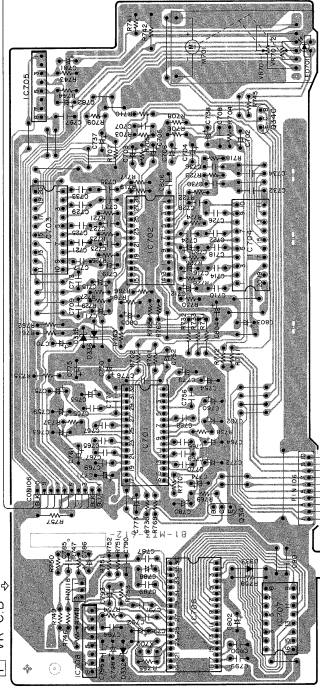
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24

C MAIN C.B

E VR C.B

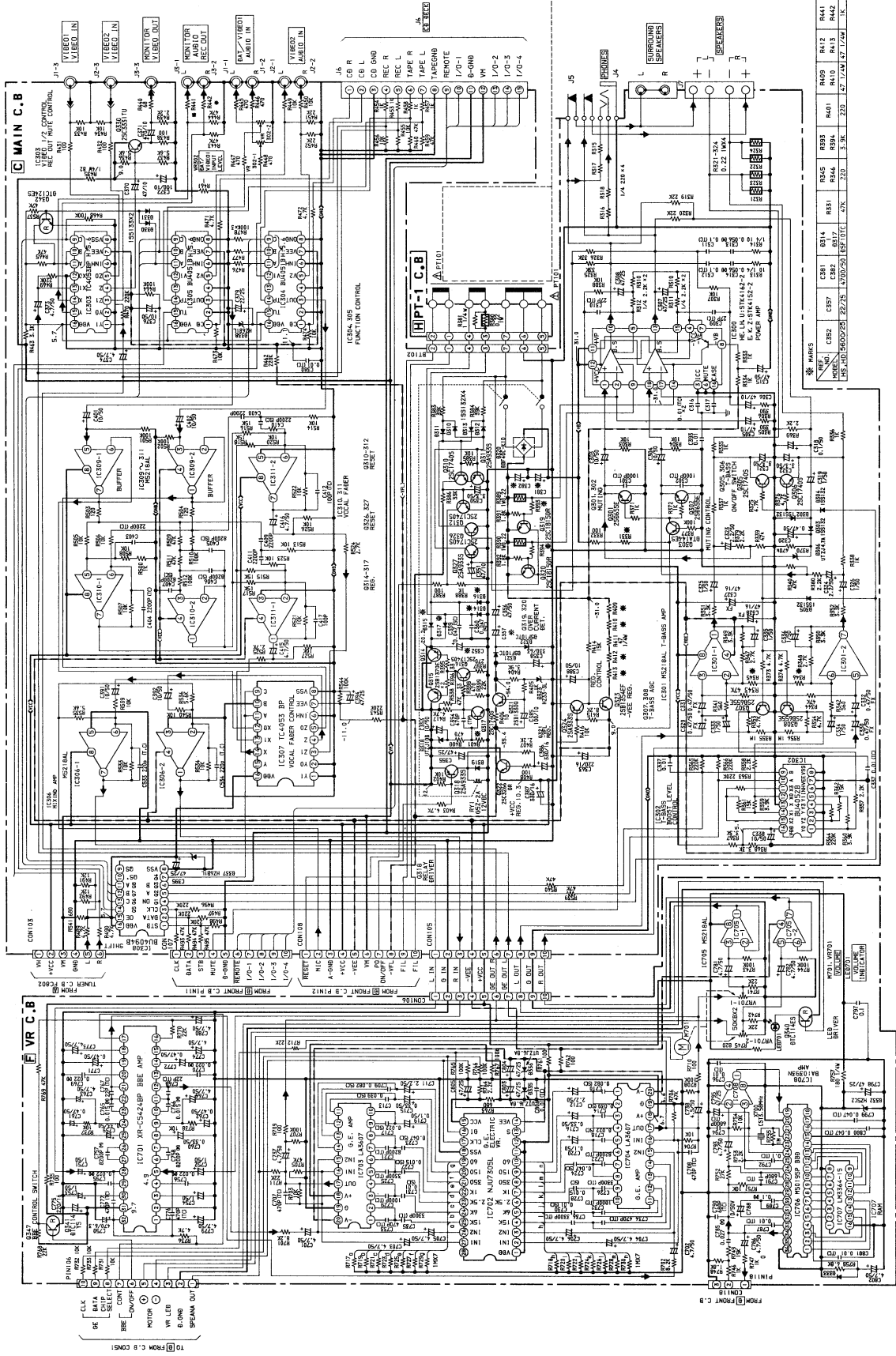


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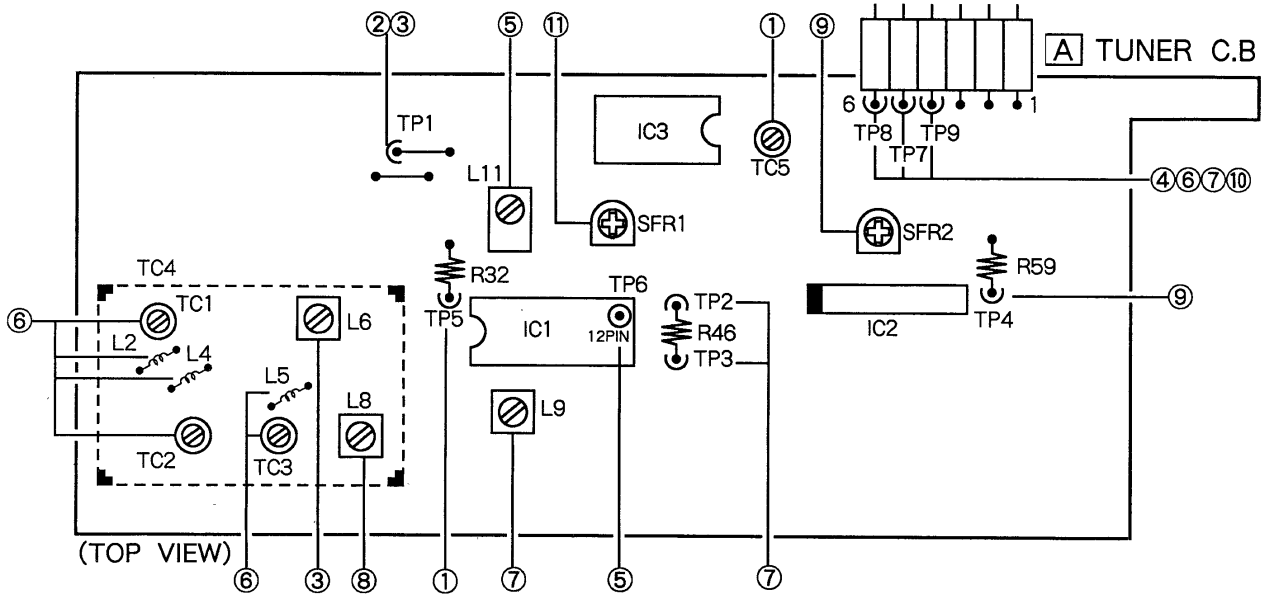
23

24

SCHEMATIC DIAGRAM - 3 (RX - N55 : MAIN)

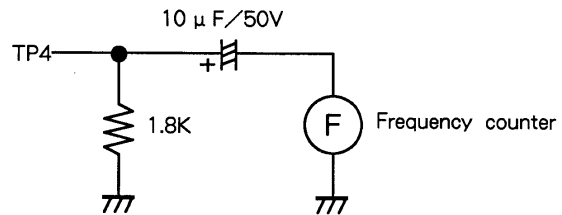


ADJUSTMENT (RX - N55)
 < HS MODEL >



(TUNER SECTION)

1. Clock Adjustment
 Settings : • Test point : TP5
 • Adjustment location : TC5
 Method : Set to AM 1602kHz and adjust so that the test point becomes 2052kHz \pm 0.01kHz.
2. AM VT Check
 Settings : • Test point : TP1
 Method : Set to AM 531kHz and check so that the test point becomes 1.1 \pm 0.2V.
3. FM VT Adjustment
 Settings : • Test point : TP1
 • Adjustment location : L6
 Method : Set to FM 108MHz and adjust L6 so that the test point becomes 9.0V \pm 0.05V.
4. AM Tracking Check
 Settings : • Test point : TP7 (L ch)
 TP8 (R ch)
 TP9 (GND)
 Method : Set to AM 999kHz and adjust to so that point become Less than 56dB (S/N 20dB).
5. AM IF Adjustment
 Settings : • Test point : TP6
 L11 450kHz
6. FM Tracking Adjustment
 Settings : • Test point : TP7 (L ch)
 TP8 (R ch)
 TP9 (GND)
 TC1, TC2 108MHz
 L2, L4 87.5MHz
7. DC Balance/MONO Distortion Adjustment
 Settings : • Test point : TP2, TP3 (DC Balance)
 TP7 (L ch)
 TP8 (R ch)
 TP9 (GND)
 (Distortion)
 • Adjustment location : L9
 • Input level : 60dB
 Method : Set to FM 98.0MHz and adjust L9 so that TP2 and TP3 output becomes 0V \pm 0.02V. Next, adjust L9 so that the distortion becomes minimum (Less than 0.6%).
8. FM IF Adjustment
 L8 10.7MHz
9. FM VCO Adjustment
 Settings : • Test point : TP4
 • MODE SW : STEREO
 • Adjustment location : SFR2
 • Input level : 60dB
 Method : Connect a capacitor and a resistor as below. Set to FM 98.0MHz and adjust so that the frequency at test point becomes 38kHz \pm 0.05kHz.



10. FM Separation Adjustment

Settings : • Test point : TP7 (L ch)
TP8 (R ch)
TP9 (GND)

Method : Set to FM 98.0MHz and check that the separation at test point becomes more than 27dB.

11. Light on tuning LED Adjustment

Settings : • Adjustment location : SFR1
• Input level : 18dB

Method : Set to FM 98.0MHz and adjust TUNING LED to light on by SFR1. After that, LED goes out by 18 ± 2 dB down.

PRACTICAL SERVICE FIGURE
< HS MODEL >

< TUNER SECTION >

< FM SECTION >

IHF Sensitivity : 4 ± 4 dB
(THD 3%) (at 87.5MHz)
 2 ± 4 dB

S/N 50dB Quieting Sensitivity :
Less than 34dB
(at 87.5, 98.0, 108.0MHz)

Signal to Noise Ratio : More than 65dB
(at 98.0MHz)

Distortion : Less than 0.8%
(at 98.0MHz)

Stereo Separation : More than 27dB (at 98.0MHz)
Intermediate Frequency : 10.7MHz

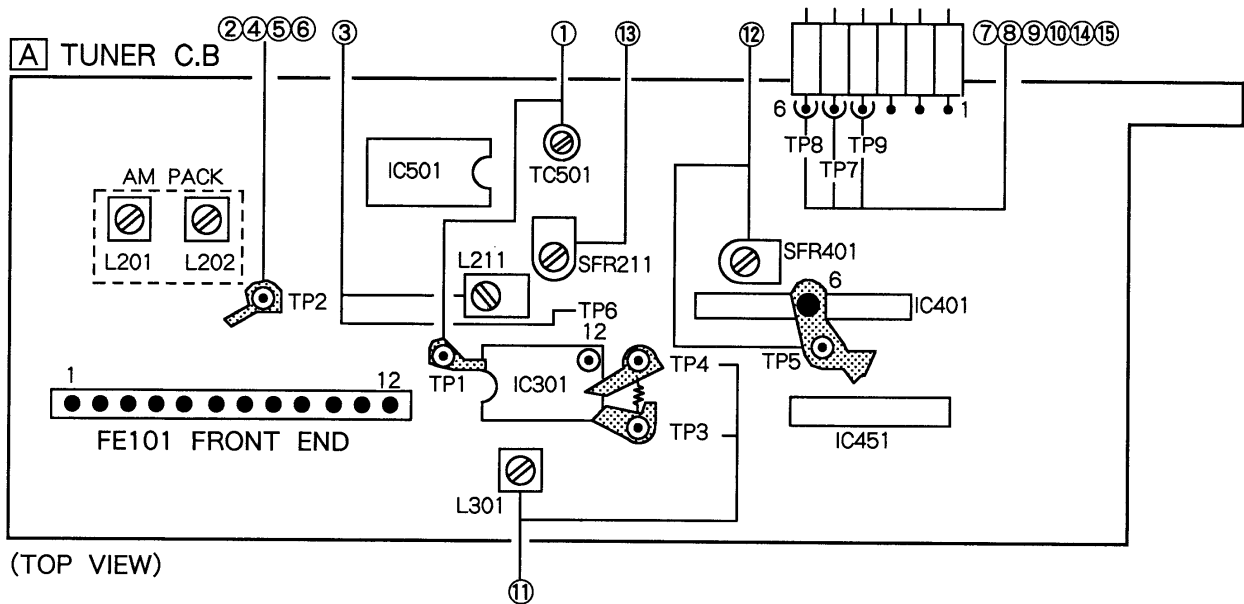
< AM SECTION >

Sensitivity : 56 ± 4 dB
[at 603kHz]
 52 ± 4 dB
[at 999/1404kHz]

Distortion : Less than 1.6%
[at 999kHz]

Intermediate Frequency : 450kHz

< HD MODEL >



< TUNER SECTION >

Note) Do not adjust the following :

Front end pack (FE101), VTs of UHF, VHF (H), VHF (I) and AM in the AM pack, or the tracking of UHF, VHF (H), VHF (L), AM.

1. AM Clock Adjustment

Settings : • Test point : TP1
• Adjustment location : TC501

Method : Set to AM 1602kHz and adjust so that the test point becomes 2052kHz \pm 0.01kHz.

2. AM VT Check

Settings : • Test point : TP2
• Adjustment location : L6

Method : Set to AM 531kHz and check so that the test point becomes 1.1 \pm 0.2V.

3. AM IF Adjustment

Settings : • Test point : TP6
L211 450kHz

4. UHF VT Check

Settings : • Test point : TP2
13ch 1.3V
62ch 22.0V

5. VHF (HIGH) VT Check

Settings : • Test point : TP2
4ch 5.0V
12ch 20.0V

6. VHF (LOW) FM VT Check

Settings : • Test point : TP2
76.0MHz 1.5V
3ch 20.0V

7. UHF Sensitivity Check

Settings : • Test point : TP7 (L ch)
TP8 (R ch)
TP9 (GND)
10 \pm 10dB [Distortion 3%, 62ch (769.75MHz)]

8. VHF (HIGH) Sensitivity Check

Settings : • Test point : TP7 (L ch)
TP8 (R ch)
TP9 (GND)
8 \pm 5dB [Distortion 3%, 12ch (221.75MHz)]

9. VHF (LOW) Sensitivity Check

Settings : • Test point : TP7 (L ch)
TP8 (R ch)
TP9 (GND)
4 \pm 5dB [Distortion 3%, 3ch (107.75MHz)]

10. FM Sensitivity Check

Settings : • Test point : TP7 (L ch)
TP8 (R ch)
TP9 (GND)
4 \pm 4dB [Distortion 3% (83.0MHz)]

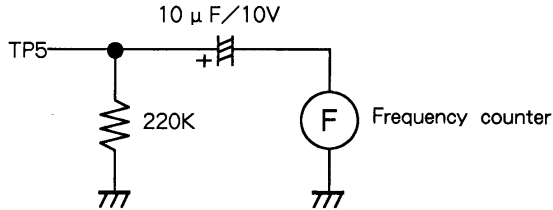
11. DC Balance/MONO Distortion Adjustment

Settings : • Test point : TP3, TP4
• Adjustment location : L301
Method : Set to FM 83.0MHz and adjust L301 so that TP3 and TP4 output becomes 0V \pm 0.02V. Next, adjust L301 so that the distortion becomes minimum (Less than 0.8%)

12.MPX VCO Adjustment

Settings : • Test point : TP5
 • MODE SW : STEREO
 • Adjustment location : SFR401

Method : Connect a capacitor and a resistor as below.
 Set to FM 83.0MHz and adjust so that the frequency at test point becomes $38\text{kHz} \pm 0.05\text{kHz}$.



13.Brightness of the Tuning Indicator Adjustment

Settings : • Adjustment point : SFR211

Method : Adjust the indicator so that "tune"lights when an FM83.0MHz, 18dB signal is input.
 Check that "tune" goes out when the input is decreased by 12dB.

14.FM Separation Check

Settings : • Test point : TP7 (L ch)
 TP8 (R ch)
 TP9 (GND)

Method : Set to FM 83.0MHz and check that the separation at test point becomes more than 20dB.

15.AM Stereo Separation Check

Settings : • Test point : TP7 (L ch)
 TP8 (R ch)
 TP9 (GND)

Method : Check that the separation between channels is 12dB or more in AM 999kHz STEREO mode.

PRACTICAL SERVICE FIGURE < HD MODEL >

< TUNER SECTION >

< FM SECTION >

IHF Sensitivity : $7 \pm 4\text{dB}$ (at 76MHz)
 (T.H.D. 3%) $4 \pm 4\text{dB}$ (at 83/90MHz)
 50dB Quieting Sensitivity:
 Less than 44dB (at 76/83/90MHz)
 Distortion : MONO. Less than 0.8%
 STEREO Less than 1.5%
 Intermediate Frequency : 10.7MHz
 Signal to Noise Ratio : MONO. More than 72dB
 (at 83MHz)
 STEREO More than 60dB
 (at 83MHz)
 Separation : More than 20dB
 Output Level : $340\text{mV} \pm 2\text{dB}$ (at 83.0MHz)

< AM SECTION >

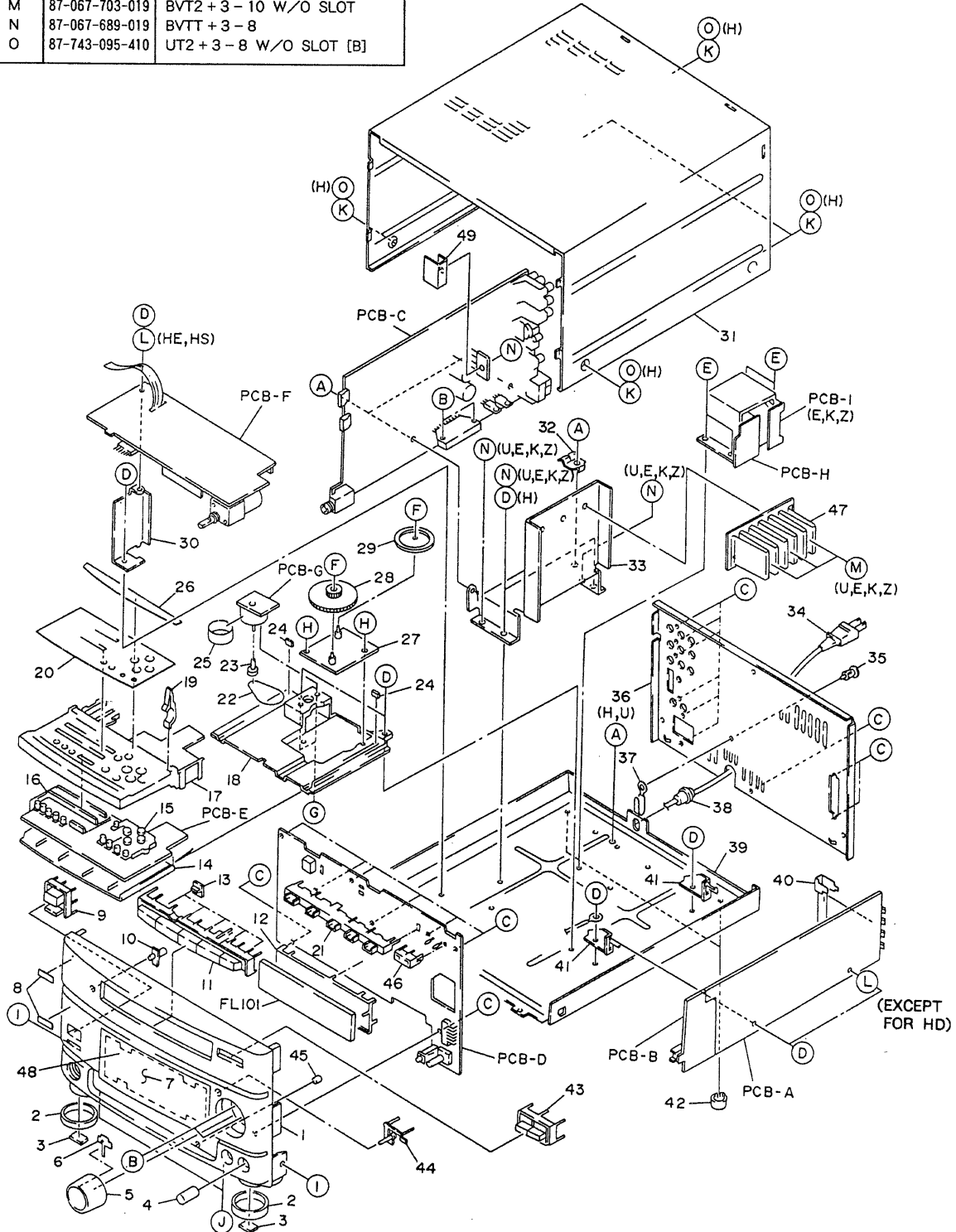
Sensitivity : $56 \pm 4\text{dB}$ (at 603kHz)
 (S/N 20dB) $54 \pm 4\text{dB}$ (at 999kHz)
 $53 \pm 4\text{dB}$ (at 1400kHz)
 Intermediate Frequency : 450kHz
 Separation : More than 12dB (at 400Hz)
 Output Level : $90\text{mV} \pm 2\text{dB}$ (at 999kHz)

< TV SECTION >

Sensitivity : VHF $4 \pm 5\text{dB}$ (at 1~3CH)
 (T.H.D. 3%) $10 \pm 10\text{dB}$ (at 4~12CH)
 : UHF $12 \pm 5\text{dB}$ (at 13CH)
 $15 \pm 5\text{dB}$ (at 37/62CH)
 Distortion : VHF Less than 0.8%
 (at 8CH, MONO)
 Less than 1.8%
 (at 8CH, STEREO)
 Less than 3%
 (at 8CH, SUB)
 Intermediate Frequency : VHF, UHF 10.7MHz
 Signal to Noise Ratio : VHF More than 60/58dB
 (at 1/4CH, MONO)
 More than 60/58dB
 (at 1/4CH, STEREO)
 More than 48/48dB
 (at 1/4CH, SUB)
 UHF More than 48dB (at 13CH)
 More than 50dB (at 37CH)
 Less than 50dB (at 62CH)
 Output Level : VHF $200\text{mV} \pm 2\text{dB}$ (at 8CH)
 UHF $200\text{mV} \pm 2\text{dB}$ (at 13CH)

EXPLODED VIEW (RX - N55)

REF. NO.	PART NO.	DESCRIPTION
A	87-067-579-019	BVT2 + 3 - 8 W/O SLOT
B	87-067-581-019	BVT2 + 3 - 15 W/O SLOT
C	87-067-761-019	BVT2 + 3 - 10 (B)
D	87-067-688-019	BVTT + 3 - 6
E	87-067-585-019	BVTT + 4 - 6
F	87-067-912-019	PW, 2.68 - 4.15 - 0.4 CUT
G	87-261-071-419	V + 2.6 - 4
H	87-067-584-019	BVT2 + 3 - 6 W/O SLOT
I	87-591-095-419	QIT + 3 - 8
J	87-067-673-019	BVTT + 3 - 8 (B)
K	87-067-641-019	UTT2 + 3 - 8 W/O SLOT (B)
L	87-067-058-019	FW3.2 - 8 - 0.5
M	87-067-703-019	BVT2 + 3 - 10 W/O SLOT
N	87-067-689-019	BVTT + 3 - 8
O	87-743-095-410	UT2 + 3 - 8 W/O SLOT (B)



MECHANICAL PARTS LIST (RX – N55)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1	★81-MT3-004-019	CABINET, FRONT (B) (HD, HE)	※	1
	1	★81-MT3-099-019	CABINET, FRONT (B) (HS)	※	1
	1	★81-MT3-022-019	CABINET, FRONT (B) (LH, E, EE, K, Z)	※	1
	1	★81-MT3-049-019	CABINET, FRONT (N) (HE)	※	1
	1	★81-MT3-107-019	CABINET, FRONT (N) (LH)	※	1
	1	★81-MT3-087-019	CABINET, FRONT (N) (U)	※	1
	1	★81-MT3-066-119	CABINET, FRONT (N) (EE, K, Z)	※	1
	2	★81-MT3-017-019	FOOT, RING (B)	※	2
	2	★81-MT3-052-019	FOOT, RING (N)	※	2
	3	★80-VT1-202-019	FELT, 12.5 – 15.5 – 2		2
	4	★80-MT3-014-019	KNOB, MIC (B)		1
	4	★81-MT3-057-019	KNOB, MIC (N)	※	1
	5	★81-MT3-068-119	VOLUME KNOB ASSY (B)	※	1
	5	★81-MT3-065-119	VOLUME KNOB ASSY (N) (HE, LH)	※	1
	5	★81-MT3-091-019	VOLUME KNOB ASSY (N) (U)	※	1
	5	★81-MT3-095-019	VOLUME KNOB ASSY (N) (EE, K, Z)	※	1
	6	★81-MT3-010-019	INDICATION, VOLUME	※	1
	7	★81-MT3-013-019	WINDOW, DISPLAY	※	1
	8	★81-MX4-032-019	BADGE, AIWA		2
	9	★81-MT3-008-019	KEY, POWER (B) (EXCEPT FOR HS)	※	1
	9	★81-MT3-102-019	KEY, POWER (B) (HS)	※	1
	9	★81-MT3-054-019	KEY, POWER (N) (HE, LH)	※	1
	9	★81-MT3-090-019	KEY, POWER (N) (U, EE, K, Z)	※	1
	10	★81-MT3-015-019	LENS, SENSOR	※	1
	11	★81-MT3-070-019	KEY, FUNCTION (EXCEPT FOR HS, U)	※	1
	11	★81-MT3-101-019	KEY, FUNCTION (HS)	※	1
	11	★81-MT3-089-019	KEY, FUNCTION (U)	※	1
	12	★80-VP1-208-110	GUIDE, FL		1
	13	★81-MT3-014-019	INDICATION, FUNCTION	※	5
	14	★81-MT3-204-019	PLATE, BOTTOM (B)	※	1
	14	★81-MT3-059-019	PLATE, BOTTOM (N)	※	1
	15	★81-MT3-012-019	KEY, GE (B)	※	1
	15	★81-MT3-063-019	KEY, GE (N)	※	1
	16	★81-MT3-011-019	KEY, TIMER (B)	※	1
	16	★81-MT3-062-019	KEY, TIMER (N)	※	1
	17	★81-MT3-036-019	CABINET, TRAY (B) (HD, HE, HS, LH)	※	1
	17	★81-MT3-073-019	CABINET, TRAY (B) (E, EE, K, Z)	※	1
	17	★81-MT3-051-019	CABINET, TRAY (N) (HE, LH)	※	1
	17	★81-MT3-088-019	CABINET, TRAY (N) (U, EE, K, Z)	※	1
	18	★81-MT3-205-019	HOLDER, TRAY	※	1
	19	★81-MT3-211-019	LEVER, OPEN	※	1
	20	★81-MT3-037-019	PLATE, TRAY (B) (EXCEPT FOR HS)	※	1
	20	★81-MT3-103-019	PLATE, TRAY (B) (HS)	※	1
	20	★81-MT3-064-019	PLATE, TRAY (N)	※	1
	21	★81-MT3-212-019	GUIDE, LED 1	※	1
	22	★81-MT3-219-010	BELT, SQ1.2	※	1
	23	★89-VW5-206-019	PULLEY, MOTOR		1
	24	★81-MT3-220-019	CUSHION, G 2 – 5 – 3.5	※	2
	25	★82-110-647-010	PLATE, SHIELD		1

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	26	★81-MT3-034-019	PLATE, TRAY SUB (HD)	※	1
	26	★81-MT3-048-019	PLATE, TRAY SUB (EXCEPT FOR HD)	※	1
	27	★81-MT3-206-019	LOADING HOLDER ASSY	※	1
	28	★81-MT3-210-010	GEAR	※	1
	29	★89-VW5-204-119	PULLEY, ROADING		1
	30	---	HOLDER, PWB		1
	31	★81-MT3-019-119	CABINET, STEEL [B] (HD, HE, HS, LH)	※	1
	31	★81-MT3-069-018	CABINET, STEEL [B] (E, EE, K, Z)	※	1
	31	★81-MT3-050-219	CABINET, STEEL [N] (HE, LH, U)	※	1
	31	★81-MT3-082-018	CABINET, STEEL [N] (EE, K, Z)	※	1
	32	---	HOLDER, IC 2		1
	33	---	HEAT SINK		1
	34	★82-187-797-019	CORD, AC (HD, HE, E, EE, Z)		1
	34	★87-034-749-019	CORD, AC (LH)		1
	34	★87-034-584-019	CORD, AC (U)		1
	34	★87-034-592-018	CORD, AC (K)		1
	34	★81-MX4-736-019	CORD, AC (HS)		1
	35	★87-084-077-019	RIVET, NYLON DIA 3.5 - 4.5		1
	36	★81-MT3-098-019	PANEL, REAR [B] (HD)	※	1
	36	★81-MT3-038-119	PANEL, REAR [B] (HE)	※	1
	36	★81-MT3-097-019	PANEL, REAR [B] (HS)	※	1
	36	★81-MT3-039-119	PANEL, REAR [B] (LH)	※	1
	36	★81-MT3-083-019	PANEL, REAR [B] (E)	※	1
	36	★81-MT3-024-019	PANEL, REAR [B] (EE)	※	1
	36	★81-MT3-025-019	PANEL, REAR [B] (K)	※	1
	36	★81-MT3-026-019	PANEL, REAR [B] (Z)	※	1
	36	★81-MT3-040-019	PANEL, REAR [N] (HE)	※	1
	36	★81-MT3-108-019	PANEL, REAR [N] (LH)	※	1
	36	★81-MT3-086-019	PANEL, REAR [N] (U)	※	1
	36	★81-MT3-078-019	PANEL, REAR [N] (EE)	※	1
	36	★81-MT3-079-019	PANEL, REAR [N] (K)	※	1
	36	★81-MT3-077-019	PANEL, REAR [N] (Z)	※	1
	37	---	BINDER, WIRE		1
	38	★87-085-185-010	BUSHING, AC CORD (HD, HE, E, EE, K, Z)		1
	38	★87-085-189-010	BUSHING, AC CORD (HS, U)		1
	38	★87-085-184-010	BUSHING, AC CORD (LH)		1
	39	---	CHASSIS, MAIN		1
	40	★81-VT1-611-010	EARTH, ANTENNA TERMINAL (HD)		1
	40	★81-653-638-110	EARTH, ANTENNA TERMINAL (HE, HS, LH, U)		1
	40	★81-653-648-010	EARTH, ANTENNA TERMINAL PAL (E, EE, K, Z)		1
	41	---	HOLDER, TU		2
	42	★87-085-213-019	FOOT, H12.5		2
	43	★81-MT3-016-010	KEY, PRESET	※	1
	44	★81-MT3-032-019	KEY, DEMO [B]	※	1
	44	★81-MT3-061-019	KEY, DEMO [N]	※	1
	45	★81-MT3-223-010	CUSHION, G STOPPER	※	1
	46	★81-MT3-213-019	GUIDE, LED 2	※	1
	47	---	HEAT SINK SUB (U, E, EE, K, Z)		1
	48	★81-MT3-058-019	SHEET, WINDOW [N]	※	1
	49	---	HEAT SINK		1

■ ACCESSORIES/PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
	1	★81-MT3-901-019	INSTRUCTION BOOKLET, S < E, S, C > [B] [N] (HE, LH)	※	1
	2	★81-MT3-902-019	INSTRUCTION BOOKLET, U < S > [N] (U)	※	1
	3	★81-MT3-903-018	INSTRUCTION BOOKLET, E < E, S, C > [B] (EE)	※	1
	3	★81-MT3-903-118	INSTRUCTION BOOKLET, E < E, S, C > [N] (EE, K)	※	1
	4	★81-MT3-904-018	INSTRUCTION BOOKLET, E < D, F, I > [B] (EE, Z, E)	※	1
	4	★81-MT3-904-118	INSTRUCTION BOOKLET, E < D, F, I > [N] (EE, Z)	※	1
	5	★81-MT3-905-018	INSTRUCTION BOOKLET, K [B] (K)	※	1
	6	★81-MT3-906-019	INSTRUCTION BOOKLET, HS [B] (HS)	※	1
	7	★81-MT3-907-010	INSTRUCTION BOOKLET, HD [B] (HD)	※	1
	8	★81-MT3-682-019	REMOTE CONTROLLER, RC-TN55F [B] (HE, LH)	※	1
	8	★81-MT3-684-018	REMOTE CONTROLLER, RC-TN55L [B] (EE, K, Z, E)	※	1
	8	★81-MT3-685-119	REMOTE CONTROLLER, RC-TN55F GLD [N] (HE, LH, U)	※	1
	8	★81-MT3-686-019	REMOTE CONTROLLER, RC-TN55L GLD [N] (EE, K, Z)	※	1
	8	★81-MT3-687-019	REMOTE CONTROLLER, RC-TN55F [B] (HS)	※	1
	8	★81-MT3-682-010	REMOTE CONTROLLER, RC-TN55F [B] (HD)	※	1
	9	★81-MX4-659-019	AM LOOP ANT NC2 [B] (HE, LH, Z)		1
	9	★87-006-225-019	AM LOOP ANT NC2 [N] (HE, LH, Z, U, HS, HD)		1
	9	★81-MX4-660-010	AM LOOP ANT CON2 [B] (EE, K, E)		1
	9	★87-006-226-019	AM LOOP ANT CON2 [N] (EE, K)		1
	10	★81-748-632-018	FEEDER, ANT FMN (EE, K, E)		1
	10	★81-748-632-019	FEEDER, ANT FMN (HE, LH, U, HS, HD)		1
	11	★87-032-845-019	PLUG, CONVERSION (LH)		1
	12	★87-042-062-010	PLUG, ADAPTOR S-I6115 (HE, HD)		1
	13	★89-MX1-722-019	PLUG, ADAPTOR (4.8) (HS)		1
	14	★87-043-106-010	FM, WIRE ANT < Z > (Z)		1