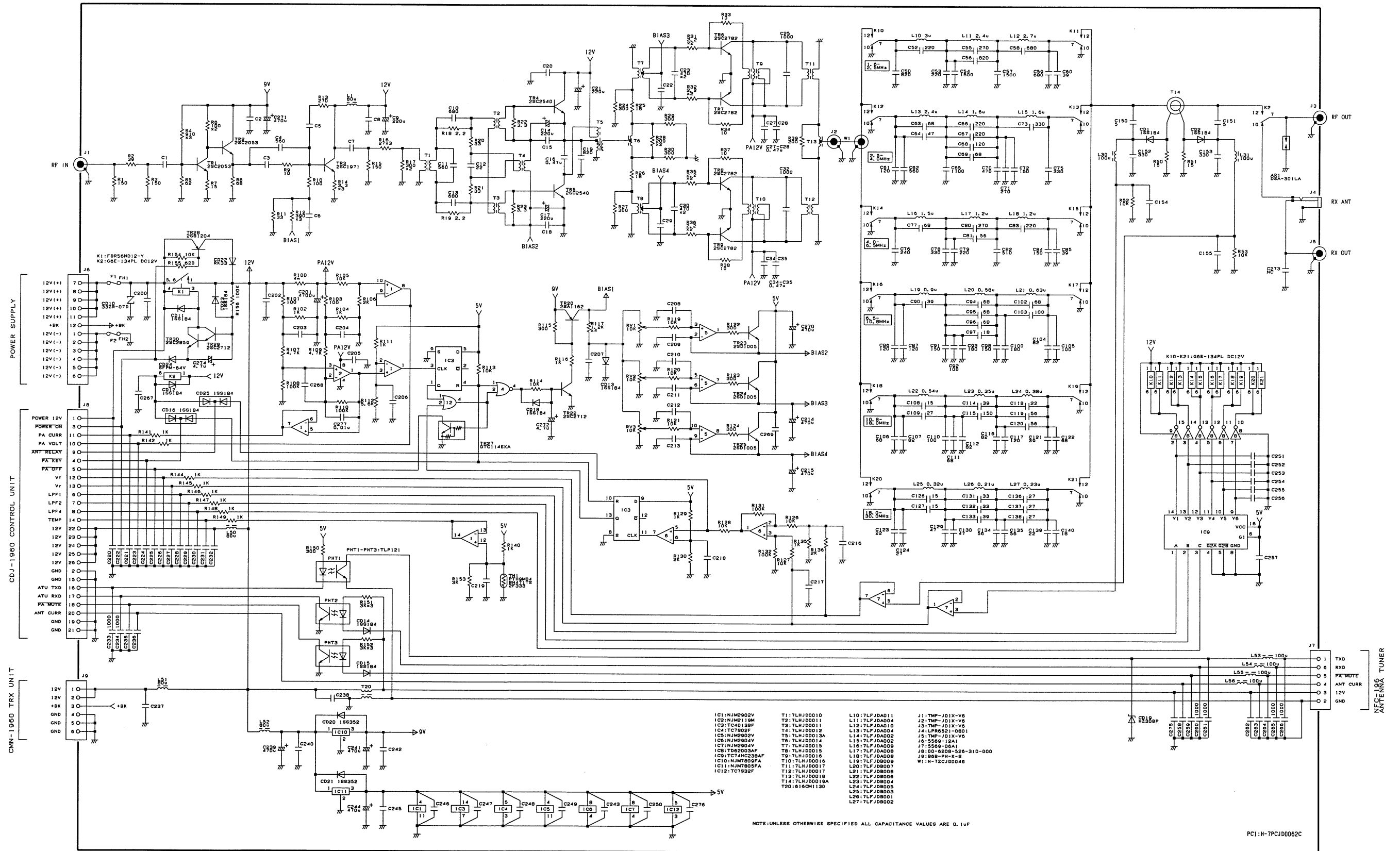


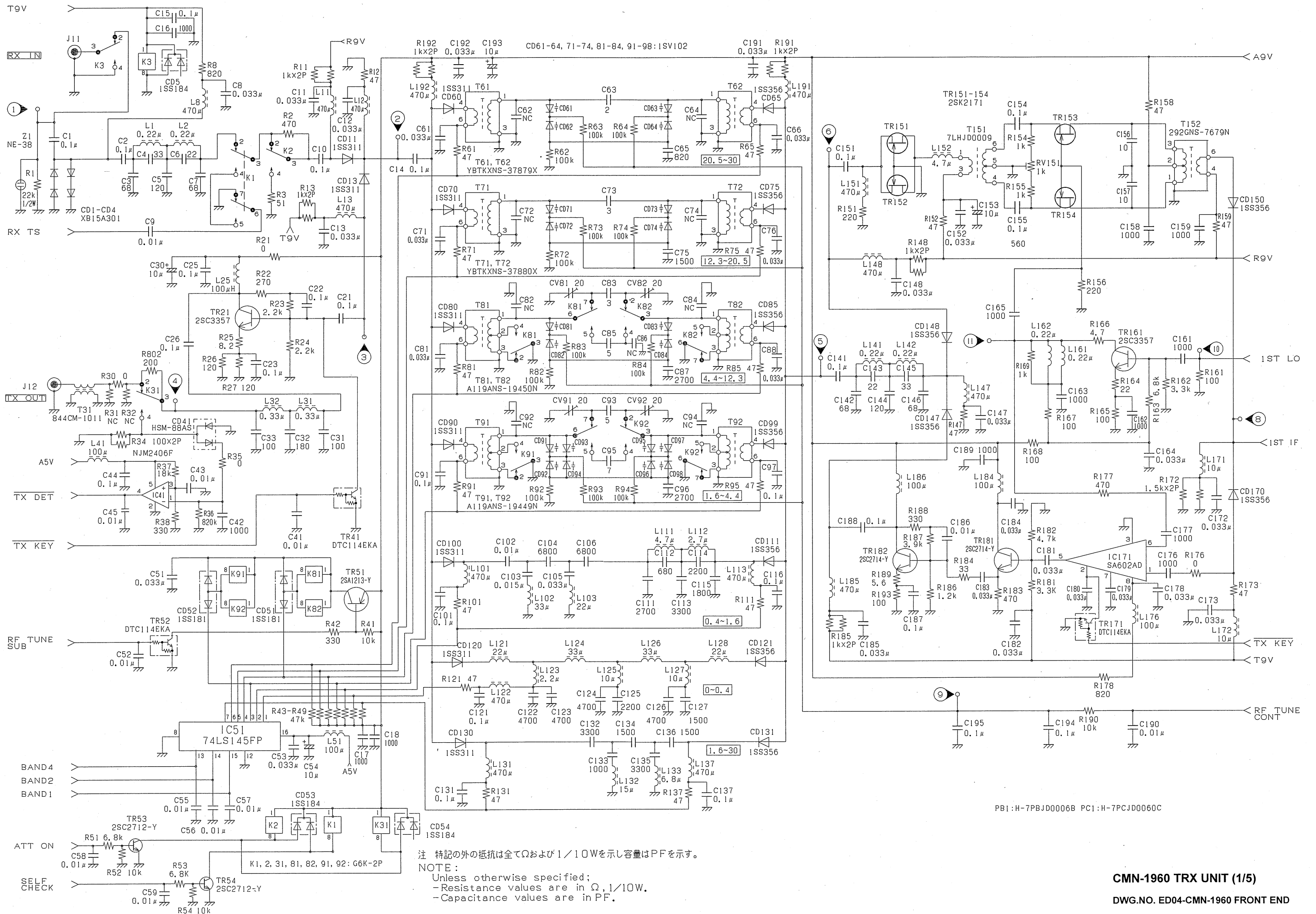
- | | | |
|-------------------------|---------------------|---------------------|
| IC1: HD6413007F20 | IC11: TC74VHC04FT | IC21: NJM2903V |
| IC2: MBM29F400BC-90PFTN | IC12: TC74HC4053AFT | IC22: M51953BFP |
| IC3: H-6DDJ000024 | IC13: NJM2902V | IC23: TC4013BF |
| IC4: MSM6775TS-K | IC14: NJM2902V | IC24: NJM2902V |
| IC5: M51953BFP | IC15: TC74HC4050AFT | IC25: NJM7809FA |
| IC6: TK11818M | IC16: TC74HC4050AFT | IC26: NJM7805FA |
| IC7: MAX232EWE | IC17: TC74HC4050AFT | IC27: AN77L09M |
| IC8: TD62003AF | IC18: TC74HC4050AFT | IC28: TC74HC4050AFT |
| IC9: TC4S81F | IC19: TC74HC4050AFT | IC29: TC74HC4050AFT |
| IC10: TC74HC4050AFT | IC20: NJM2904V | |

NOTE: UNLESS OTHERWISE SPECIFIED ALL CAPACITANCE VALUES ARE 0.01μF
 * : No Connected

CDJ-1960 CONTROL UNIT (1/1)
 DWG.NO. ED02-CDJ-1960



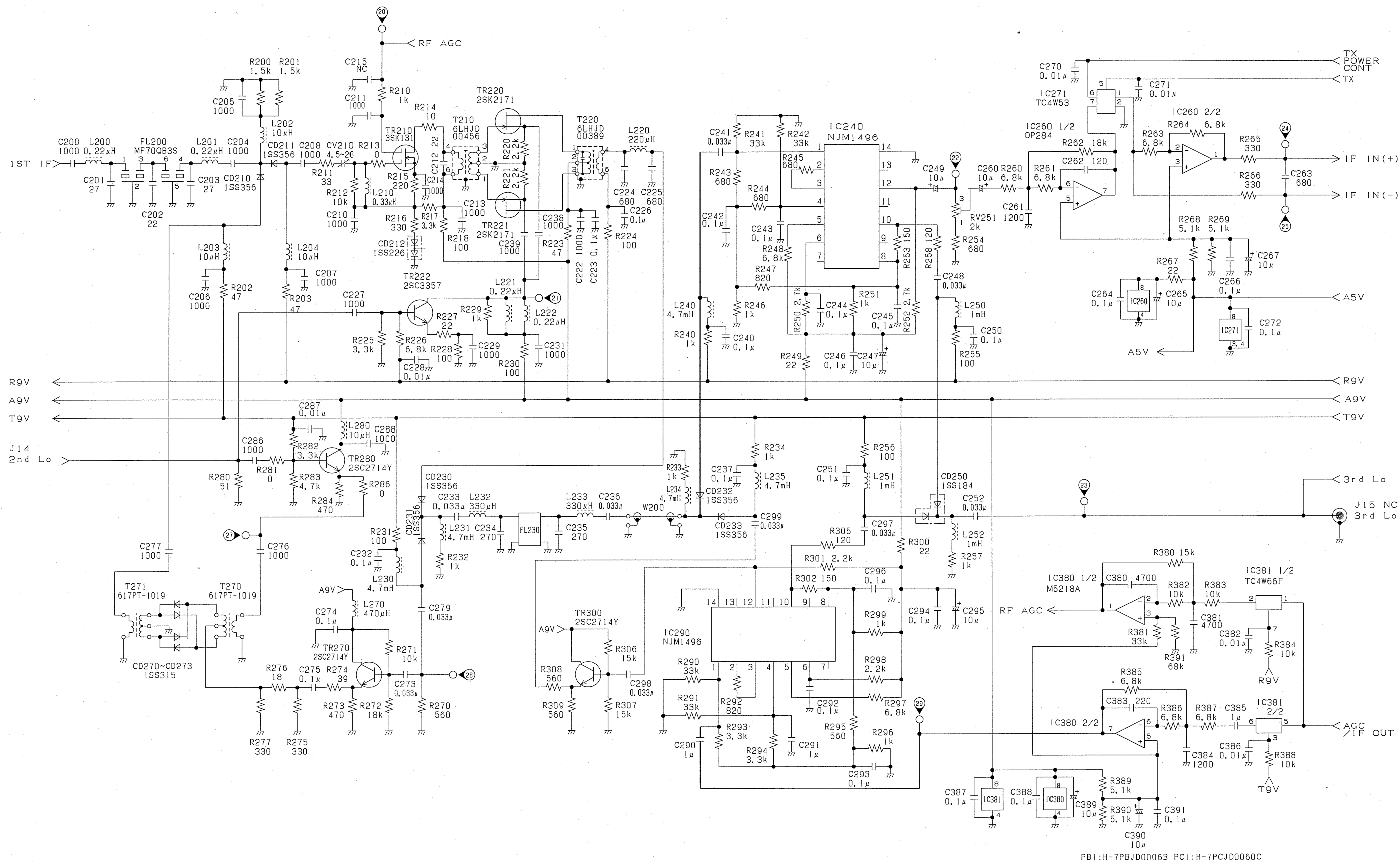
CAH-1960 PA UNIT (1/1)
DWG.NO. ED00-CAH-1960



PB1:H-7PBJD0006B PC1:H-7PCJD0060C

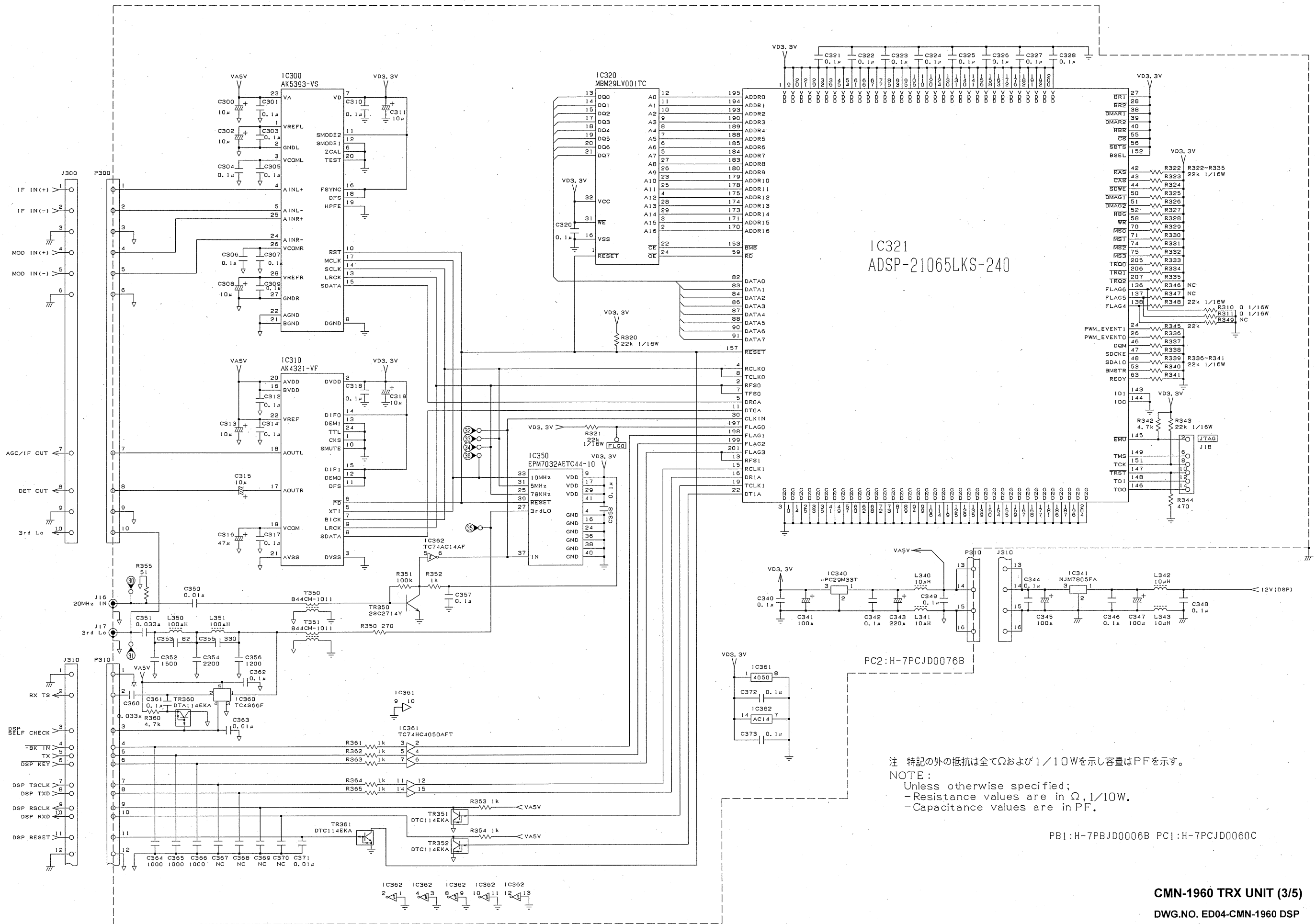
注 特記の外の抵抗は全てΩおよび1/10Wを示し容量はPFを示す。
 NOTE:
 -Resistance values are in Ω, 1/10W.
 -Capacitance values are in PF.

CMN-1960 TRX UNIT (1/5)
 DWG.NO. ED04-CMN-1960 FRONT END



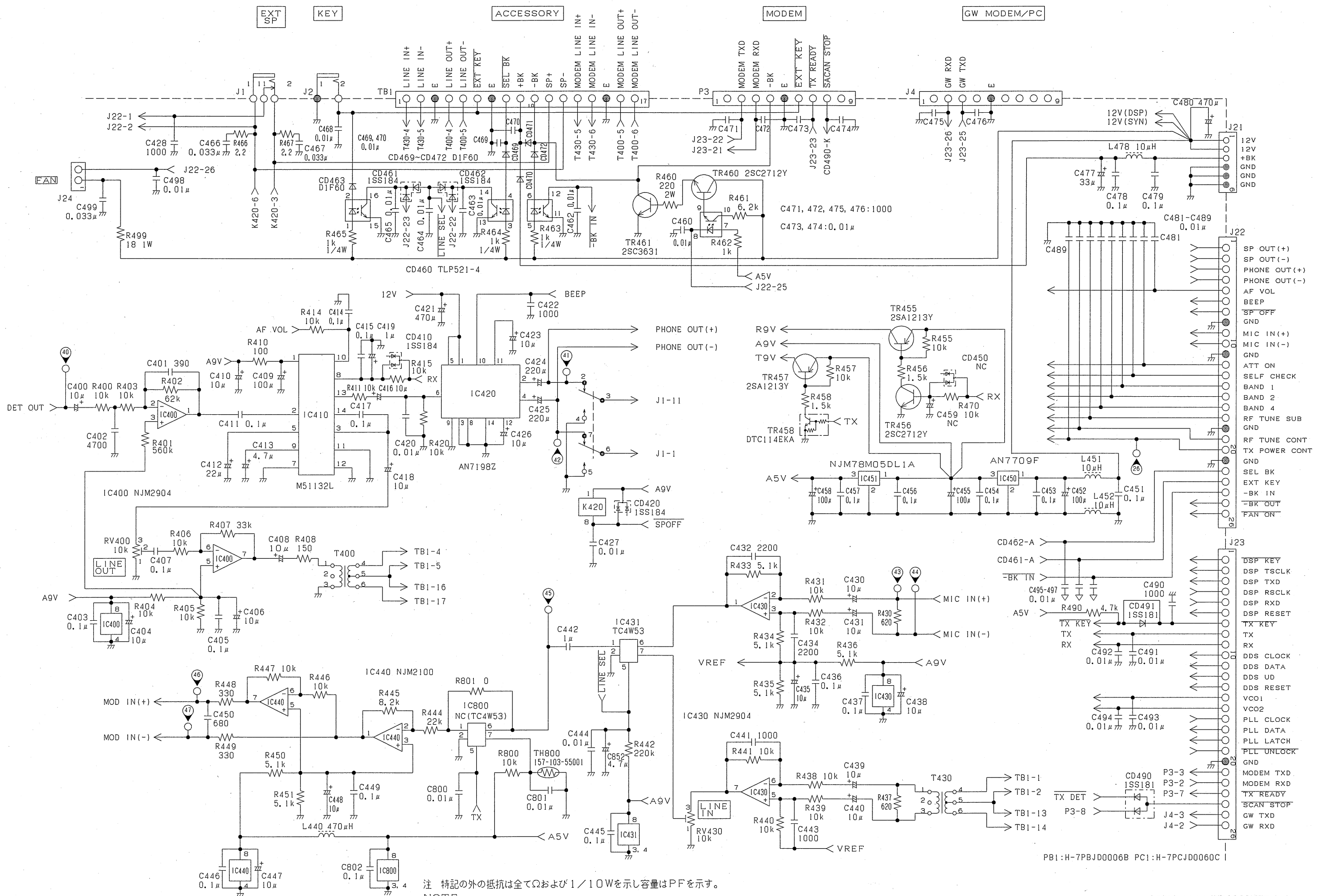
注 特記の外の抵抗は全てΩおよび1/10Wを示し容量はPFを示す。
 NOTE :
 - Unless otherwise specified;
 - Resistance values are in Ω, 1/10W.
 - Capacitance values are in PF.

PB1:H-7PBJD0006B PC1:H-7PCJD0060C



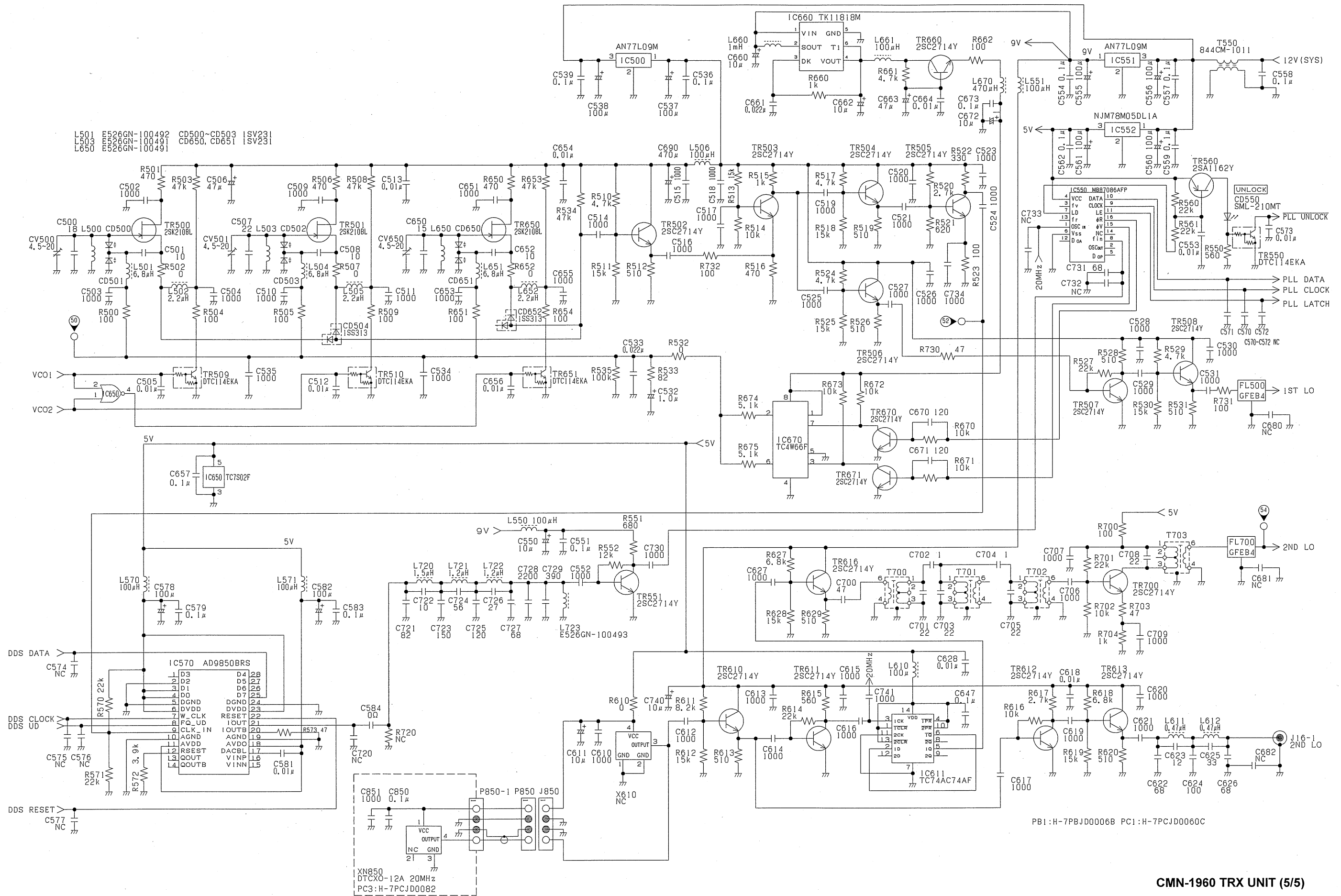
CMN-1960 TRX UNIT (3/5)

DWG.NO. ED04-CMN-1960 DSP



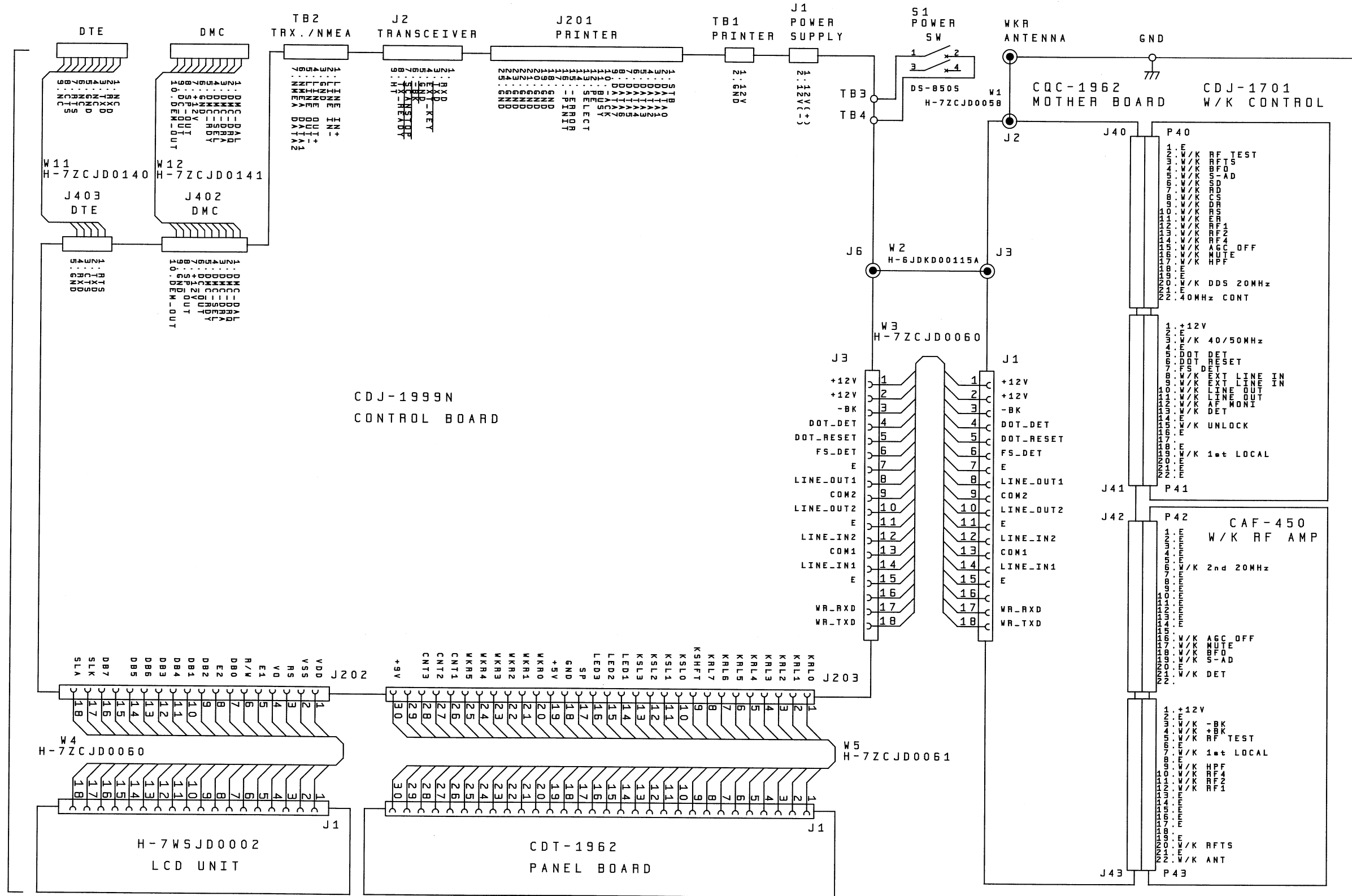
注 特記の外の抵抗は全てΩおよび1/10Wを示し容量はPFを示す。
 NOTE:
 - Unless otherwise specified;
 - Resistance values are in Ω, 1/10W.
 - Capacitance values are in PF.

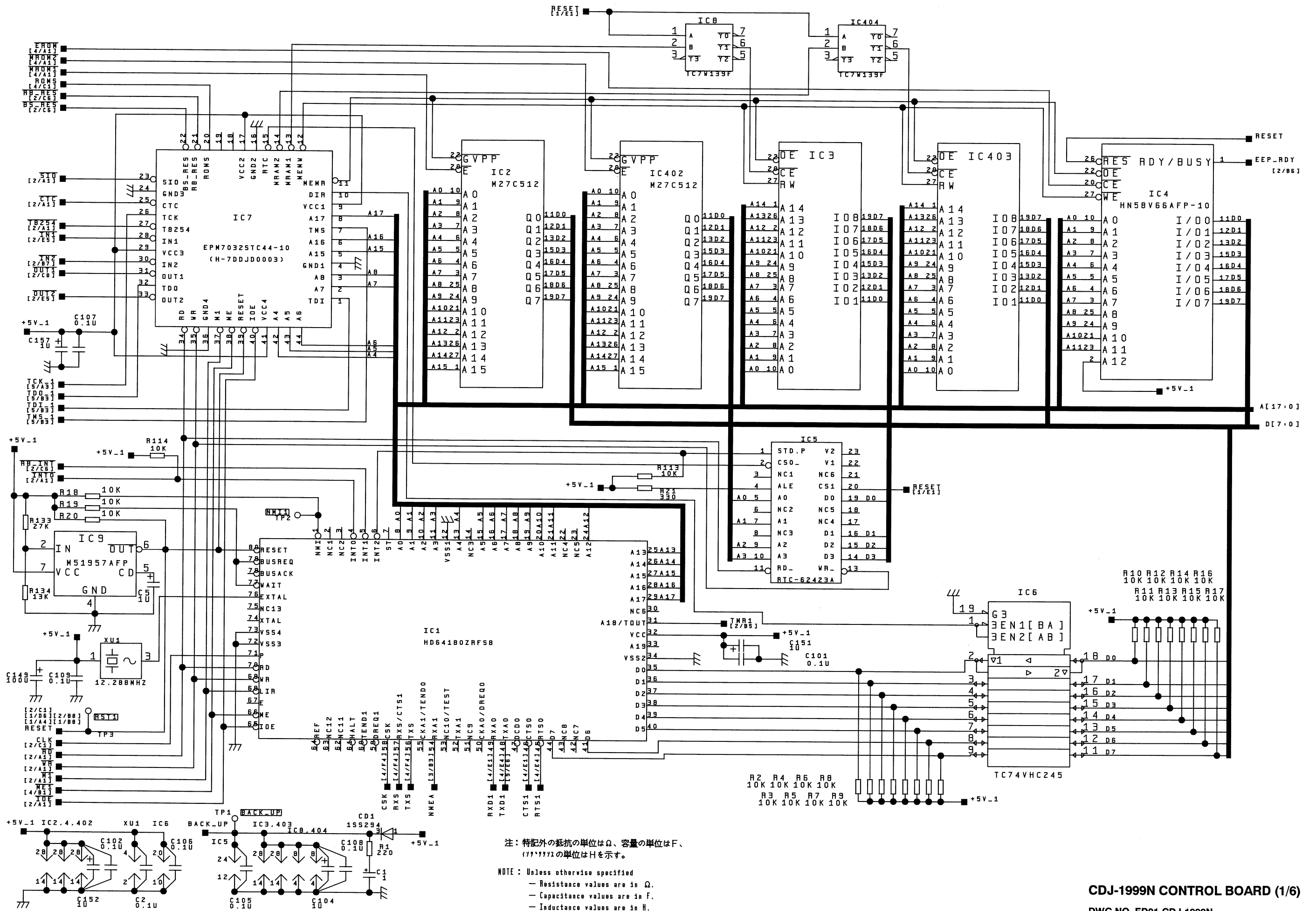
CMN-1960 TRX UNIT (4/5)
 DWG.NO. ED04-CMN-1960 AF/CONNECTION



PB1:H-7PBJD0006B PC1:H-7PCJD0060C

CMN-1960 TRX UNIT (5/5)
 DWG.NO. ED04-CMN-1960 SYNTHESIZER

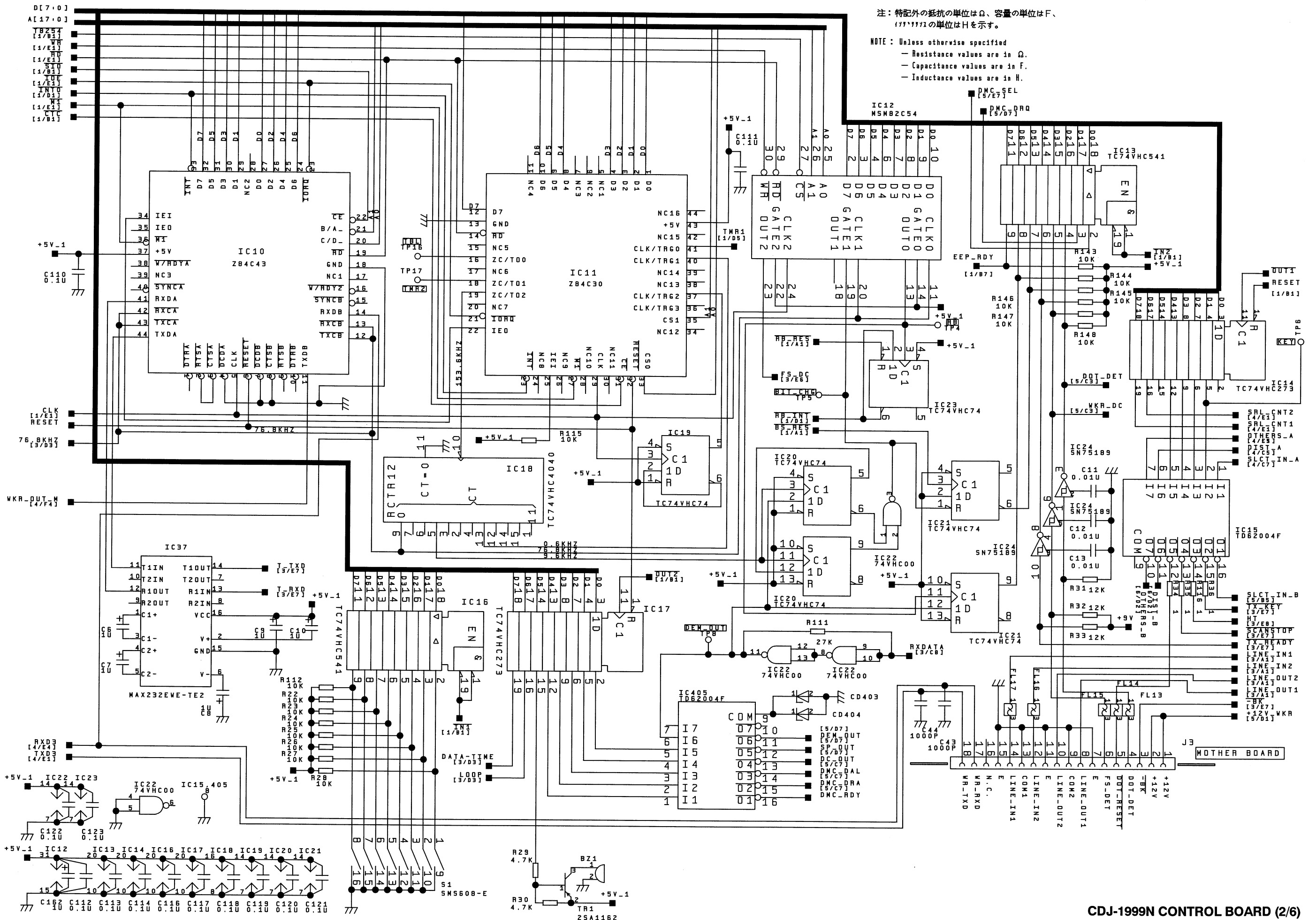




注: 特記外の抵抗の単位はΩ、容量の単位はF、
 () の単位はHを示す。

NOTE: Unless otherwise specified
 - Resistance values are in Ω.
 - Capacitance values are in F.
 - Inductance values are in H.

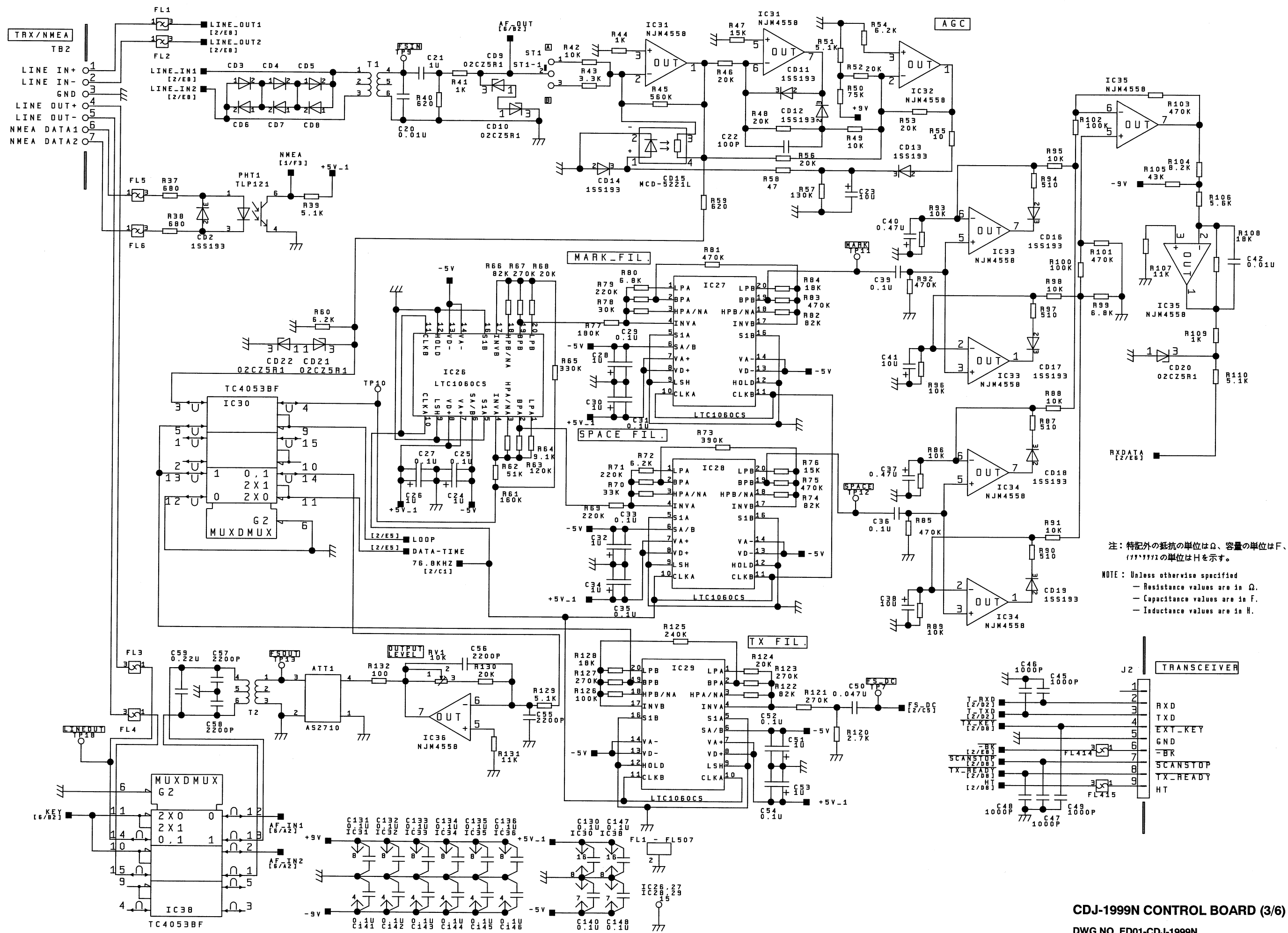
CDJ-1999N CONTROL BOARD (1/6)
 DWG.NO. ED01-CDJ-1999N



注：特記外の抵抗の単位はΩ、容量の単位はF、
 ()の単位はHを示す。

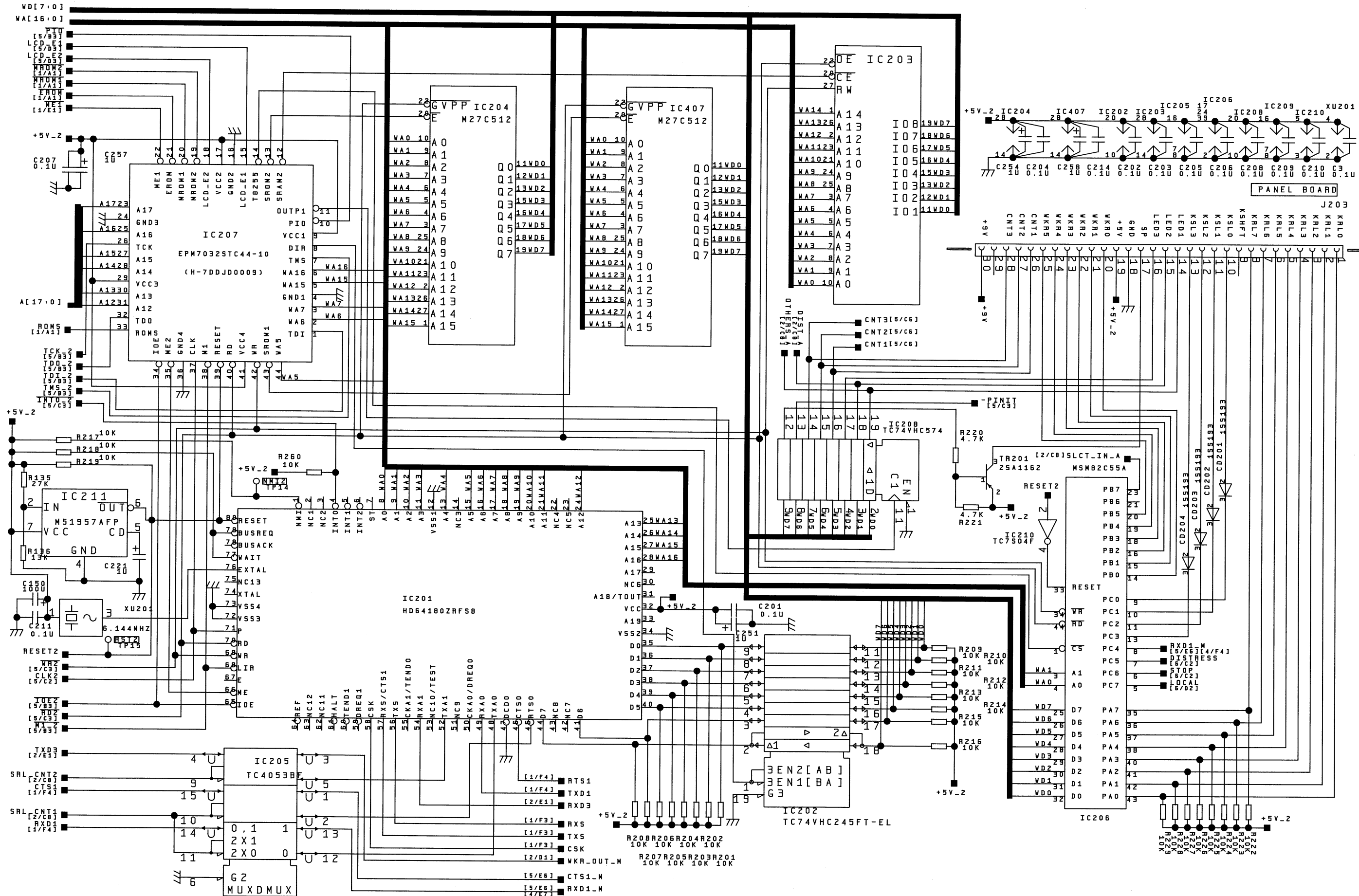
NOTE: Unless otherwise specified
 - Resistance values are in Ω.
 - Capacitance values are in F.
 - Inductance values are in H.

CDJ-1999N CONTROL BOARD (2/6)
 DWG.NO. ED01-CDJ-1999N



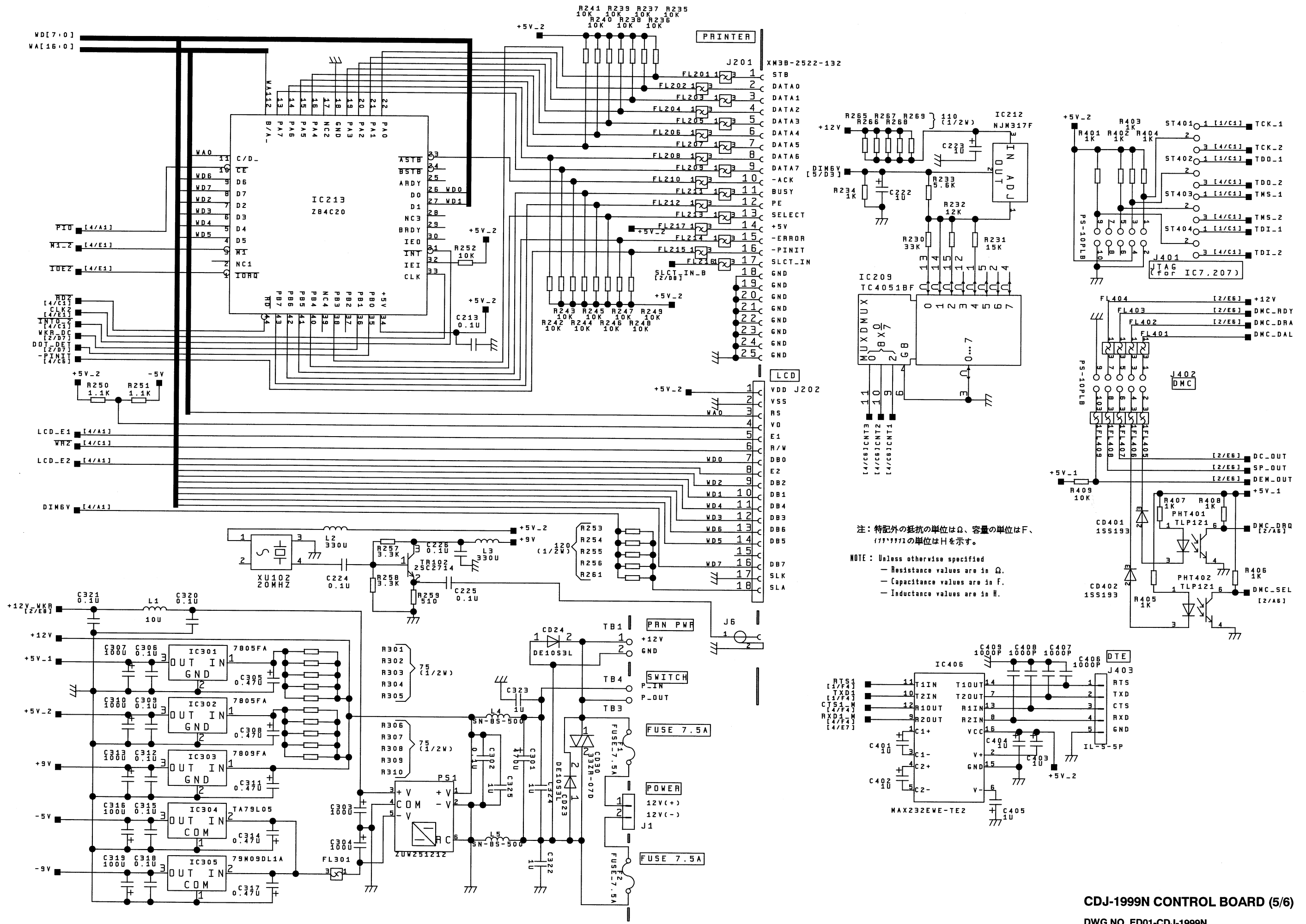
注：特記外の抵抗の単位はΩ、容量の単位はF、
 1777777の単位はHを示す。
 NOTE : Unless otherwise specified
 - Resistance values are in Ω.
 - Capacitance values are in F.
 - Inductance values are in H.

CDJ-1999N CONTROL BOARD (3/6)
 DWG.NO. ED01-CDJ-1999N



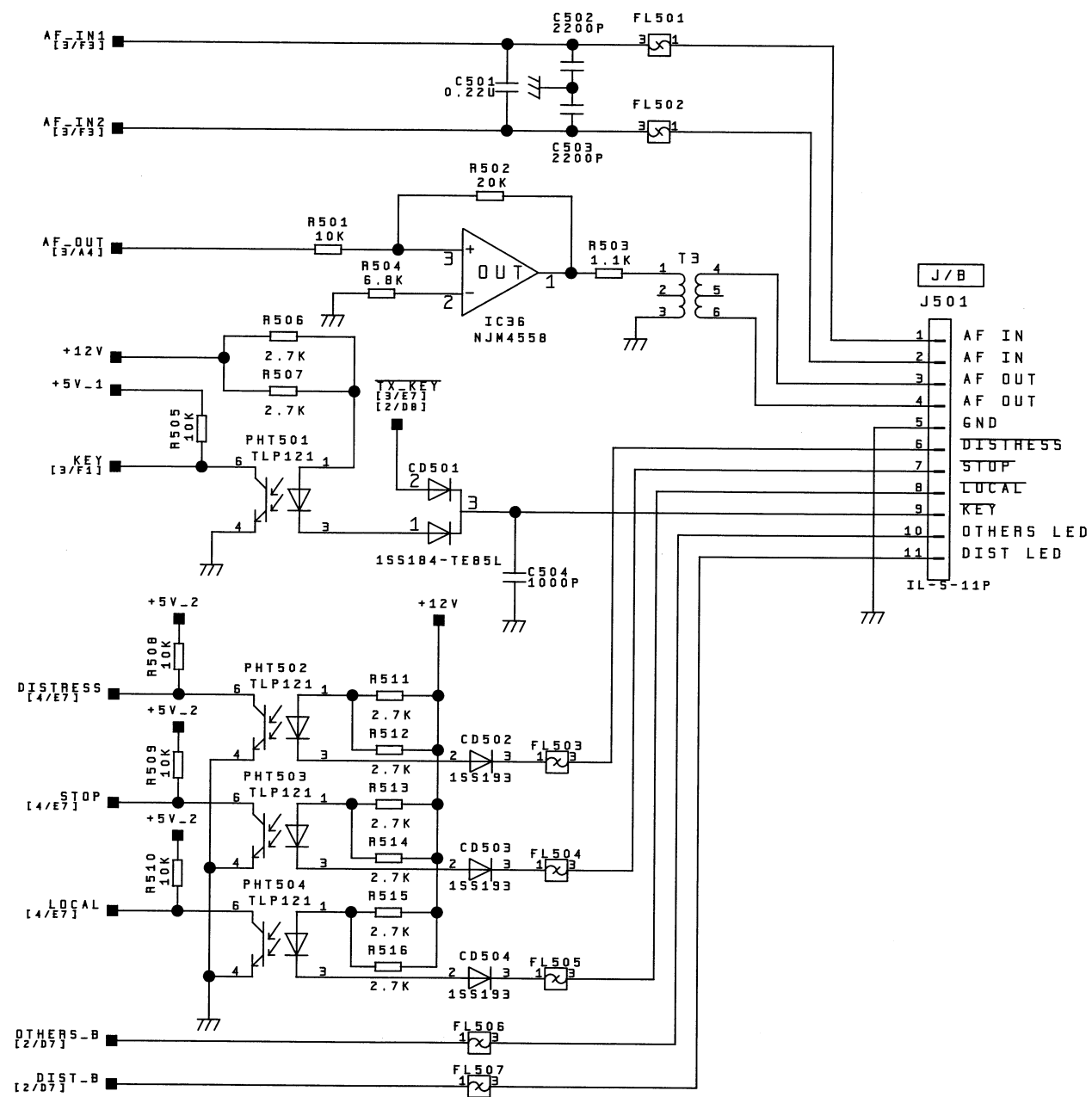
NOTE : Unless otherwise specified
 - Resistance values are in Ω.
 - Capacitance values are in F.
 - Inductance values are in H.

注：特記外の抵抗の単位はΩ、容量の単位はF、
 () の単位はHを示す。



注：特記外の抵抗の単位はΩ、容量の単位はF、
 (1/10)の単位はHを示す。
 NOTE: Unless otherwise specified
 - Resistance values are in Ω.
 - Capacitance values are in F.
 - Inductance values are in H.

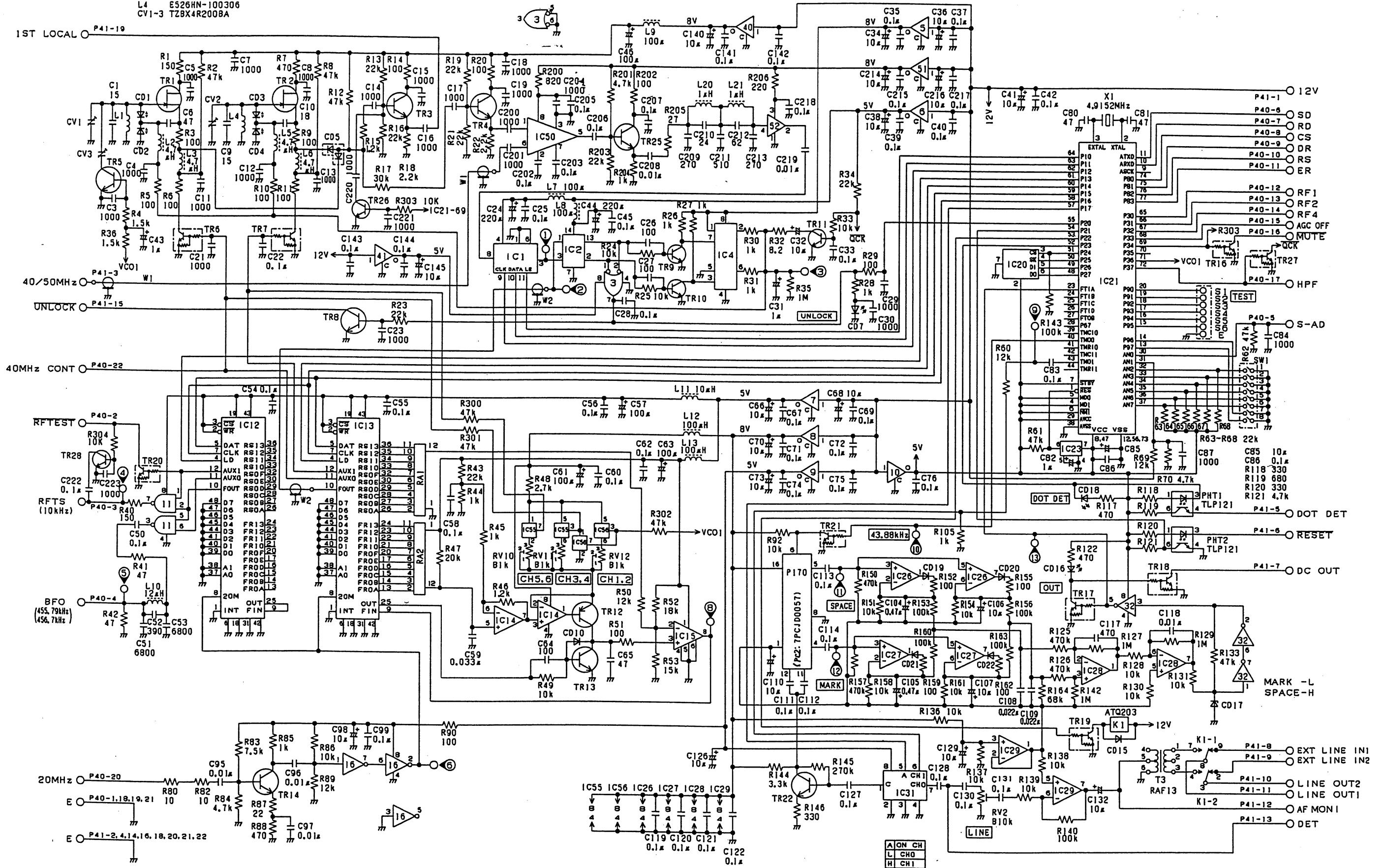
CDJ-1999N CONTROL BOARD (5/6)
 DWG.NO. ED01-CDJ-1999N



注：特記外の抵抗の単位はΩ、容量の単位はF、
 (???)の単位はHを示す。

NOTE : Unless otherwise specified
 - Resistance values are in Ω.
 - Capacitance values are in F.
 - Inductance values are in H.

L1 E526HN-100308
 L4 E526HN-100306
 CV1-3 TZ8X4R2008A

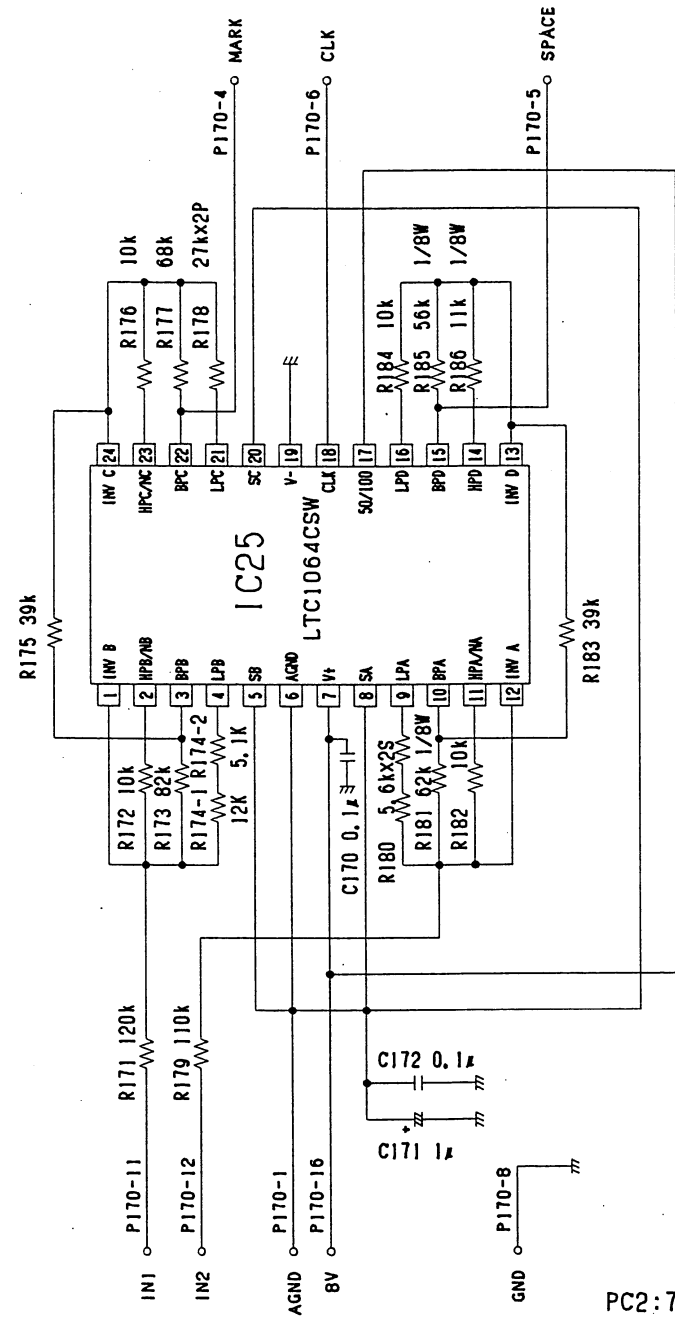


注 特記の外の抵抗は全てΩおよび1/10Wを示し容量はPFを示す。
 NOTE:
 Unless otherwise specified;
 -Resistance values are in Ω, 1/10W.
 -Capacitance values are in PF.

| | | | | | |
|---------------|----------|-------------|-------------|--------------|----------|
| CD1-4 | MA366 | IC6,9,10,41 | TA78L05F | IC26-29 | M5218AFP |
| CD5 | HSM2694 | IC7 | TA7805S | IC31 | TC4W53F |
| CD7,16,18 | MPR4371F | IC12, 13 | MB671490 | IC50 | SA602AD |
| CD10,15,19-22 | ISS226 | IC14 | NJM3404AM | IC52 | UPC1688G |
| CD17 | RD5.1MB | IC15 | LT1016CN | TR1,2 | 2SK2108L |
| IC1 | MB87086A | IC16, 32 | TC7WU04F | TR3-11,13,14 | 2SC2714Y |
| IC2 | MC4044P | IC20 | AK93C45AF | TR6,7,16-21 | 2SC3398 |
| IC3,11 | TC7W00F | IC21 | HD6473308RF | TR8,22 | 2SC2712Y |
| IC4,5,5,56 | TC4W66F | IC23 | M51953BFP | TR12 | 2SA1162Y |
| IC5,8,40,51 | TA78L08F | IC25 | LTC1064CSW | TR26, 28 | 2SC2714Y |
| | | | | TR27 | RN1402 |

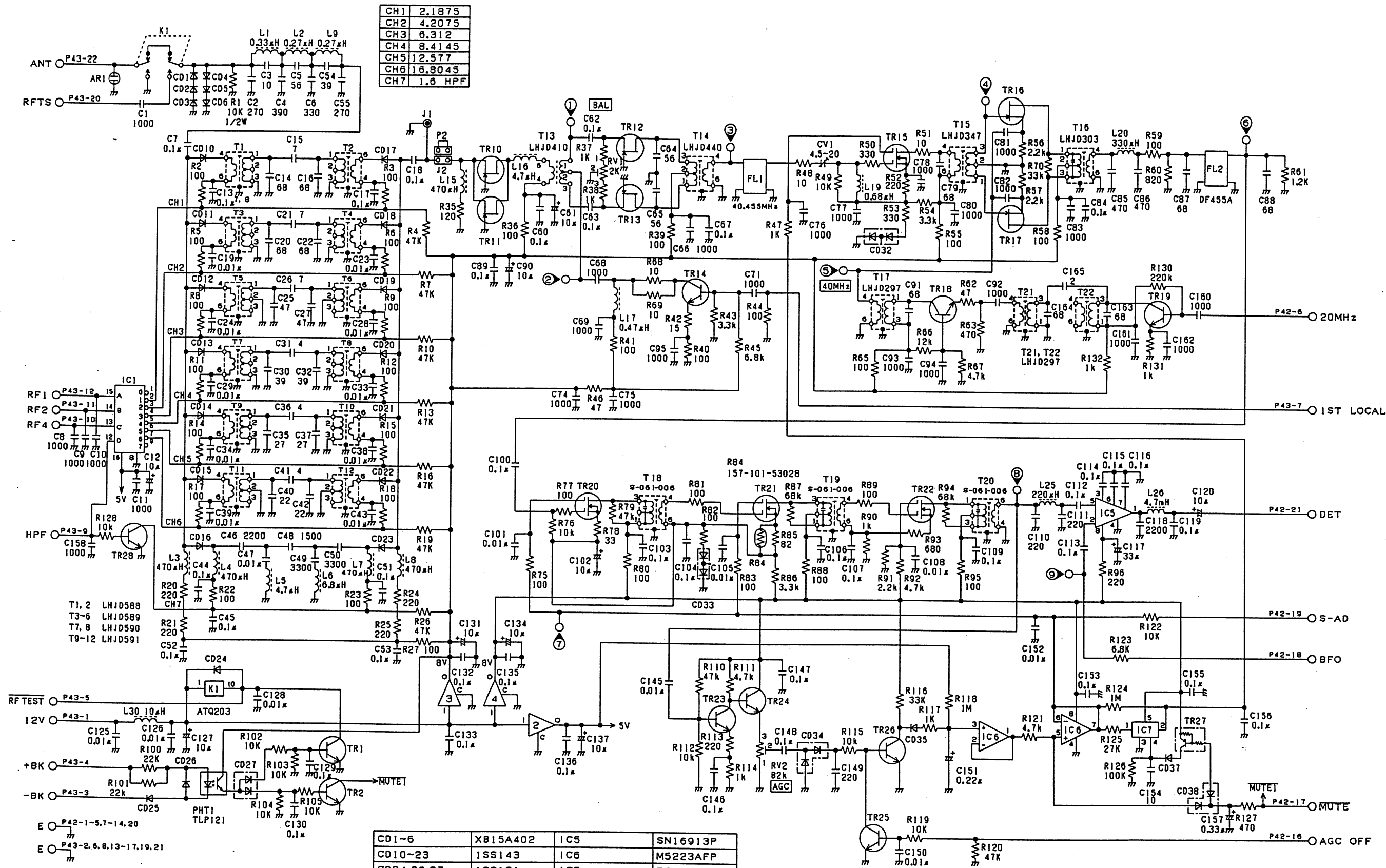
6PCJ008898

CDJ-1701 W/K CONTROL (1/2)
 DWG.NO. ED00-CDJ-1701



PC2:7PCJD0057

注 特記の外の抵抗は全てΩおよび1/10Wを示し容量はPFを示す。
 NOTE:
 -Unless otherwise specified;
 -Resistance values are in Ω, 1/10W.
 -Capacitance values are in PF.



| | |
|-----|---------|
| CH1 | 2.1875 |
| CH2 | 4.2075 |
| CH3 | 6.312 |
| CH4 | 8.4145 |
| CH5 | 12.577 |
| CH6 | 16.8045 |
| CH7 | 1.6 HPF |

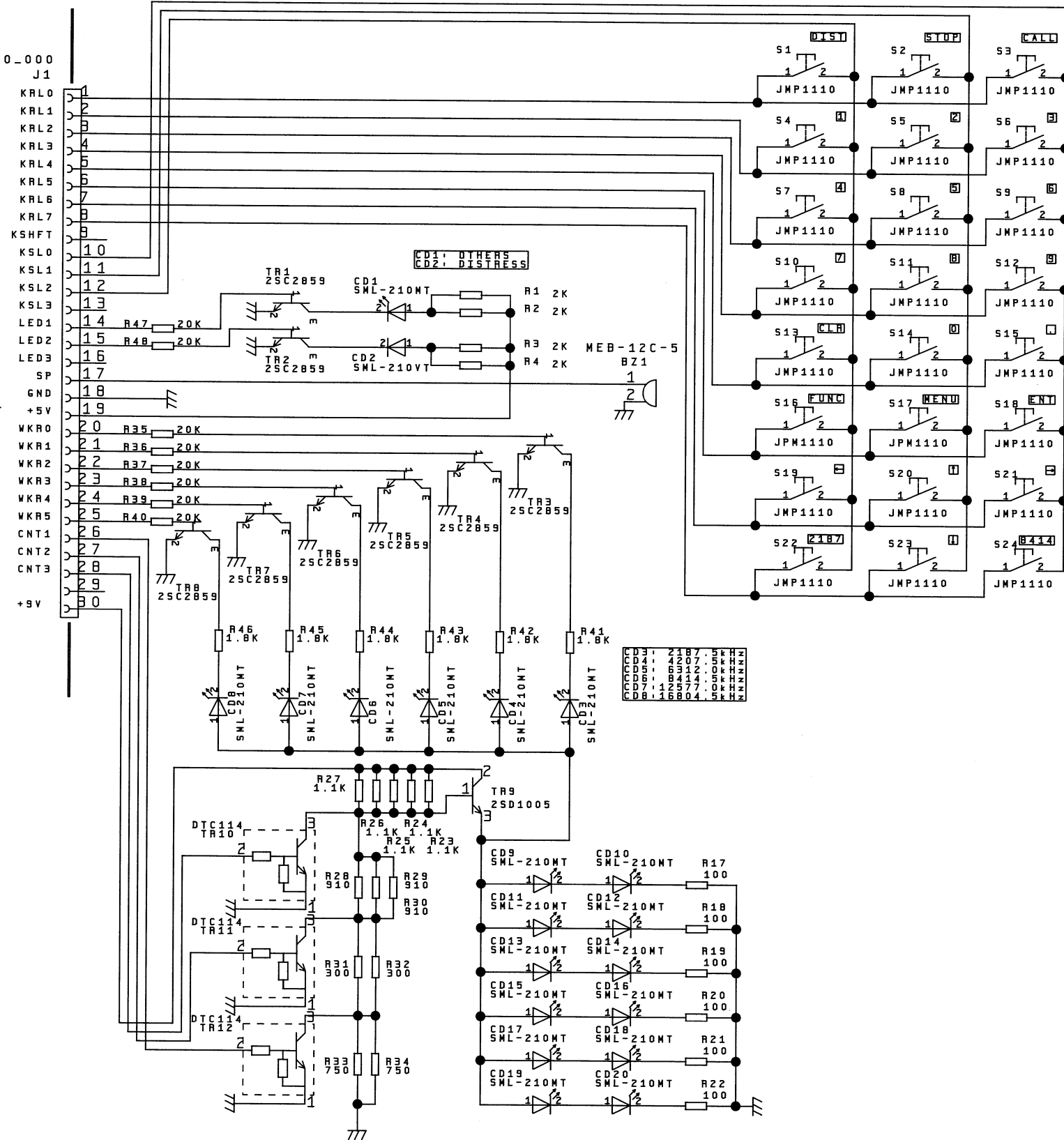
| | | | |
|------------|----------|-------------------|------------|
| CD1-6 | XB15A402 | IC5 | SN16913P |
| CD10-23 | 1SS143 | IC6 | M5223AFP |
| CD24,26,27 | 1SS181 | IC7 | TC4S66F |
| CD25 | V07J | TR1,2,18,23-26,28 | 2SC2712Y |
| CD32-35 | 1SS226 | TR10-13,16,17 | 2SK937-Y5 |
| CD37, 38 | 1SS184 | TR14 | 2SC3357 |
| IC1 | 74LS145 | TR15, 20-22 | 3SK131-V12 |
| IC2 | TA78L05F | TR19 | 2SC2714Y |
| IC3, 4 | TA78L08F | TR27 | 2SA1344 |

注 特記の外の抵抗は全てΩおよび1/10Wを示し容量はPFを示す。
 NOTE:
 Unless otherwise specified;
 -Resistance values are in Ω, 1/10W.
 -Capacitance values are in PF.

6PCJ000888A

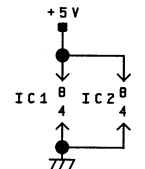
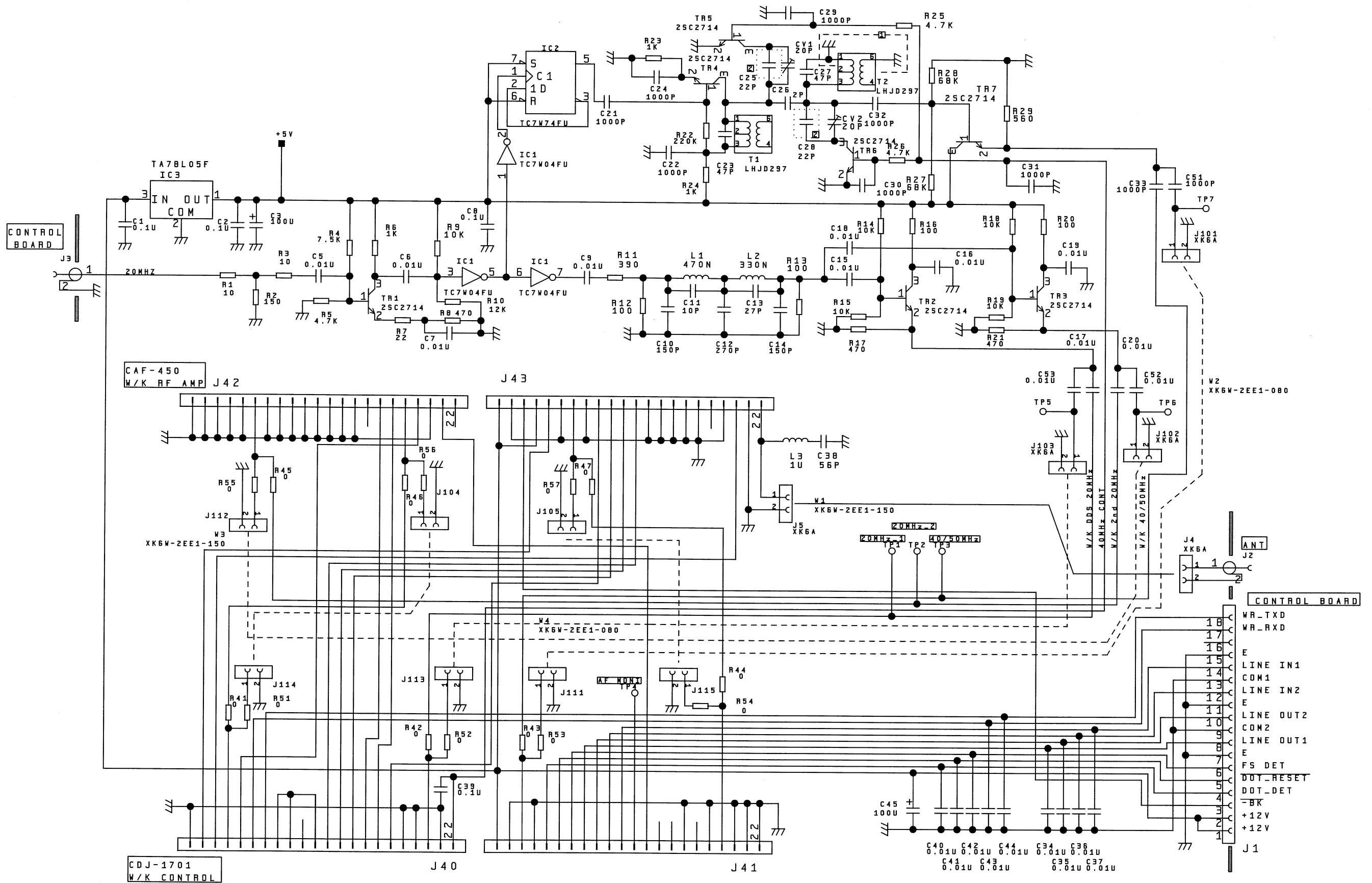
CAF-450 W/K RF AMP (1/1)
 DWG.NO. ED00-CAF-450

00_6208_530_410_000



注：特記外の抵抗の単位はΩ、容量の単位はFを示す。

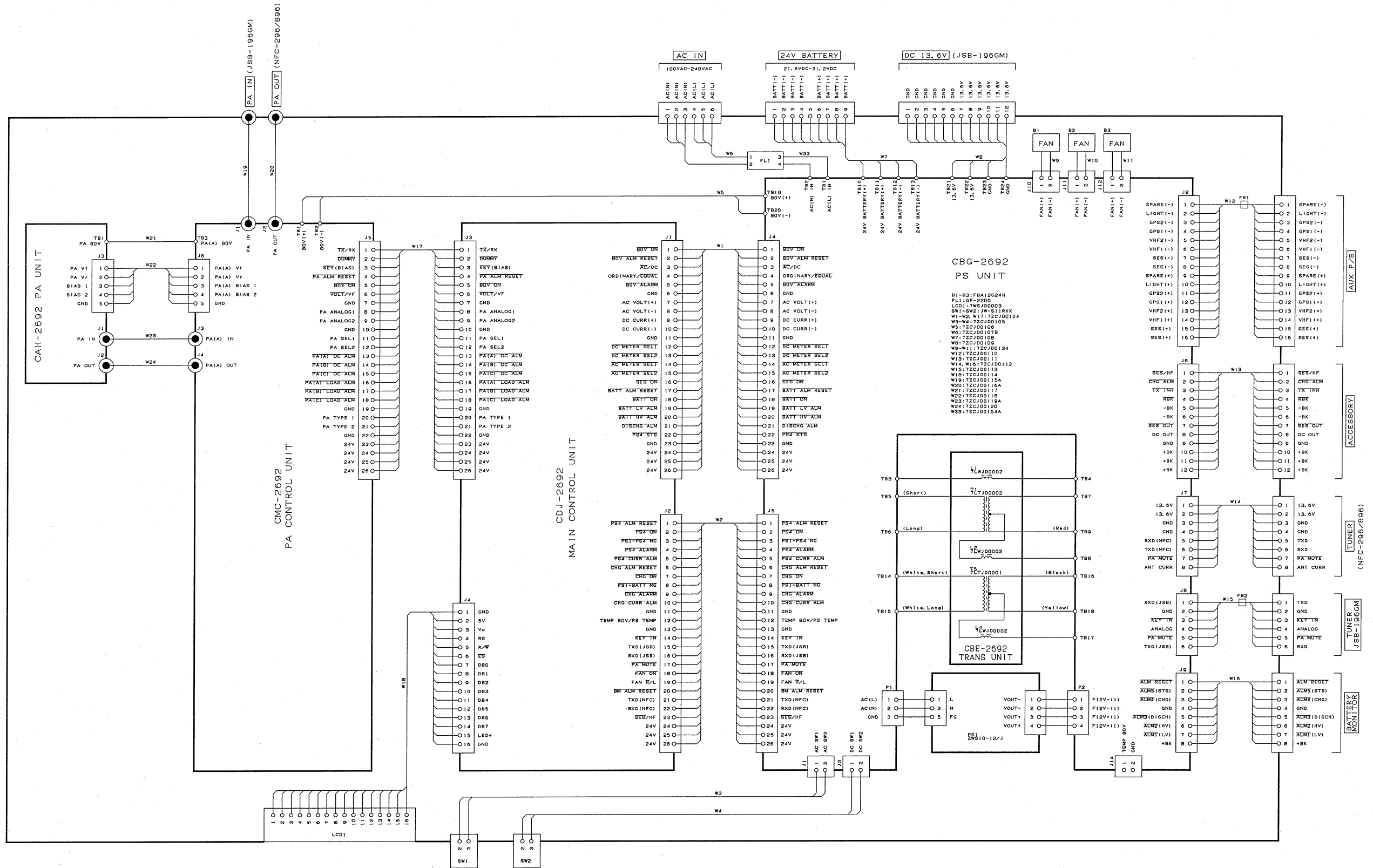
NOTE : Unless otherwise specified
 - Resistance values are in Ω.
 - Capacitance values are in F.

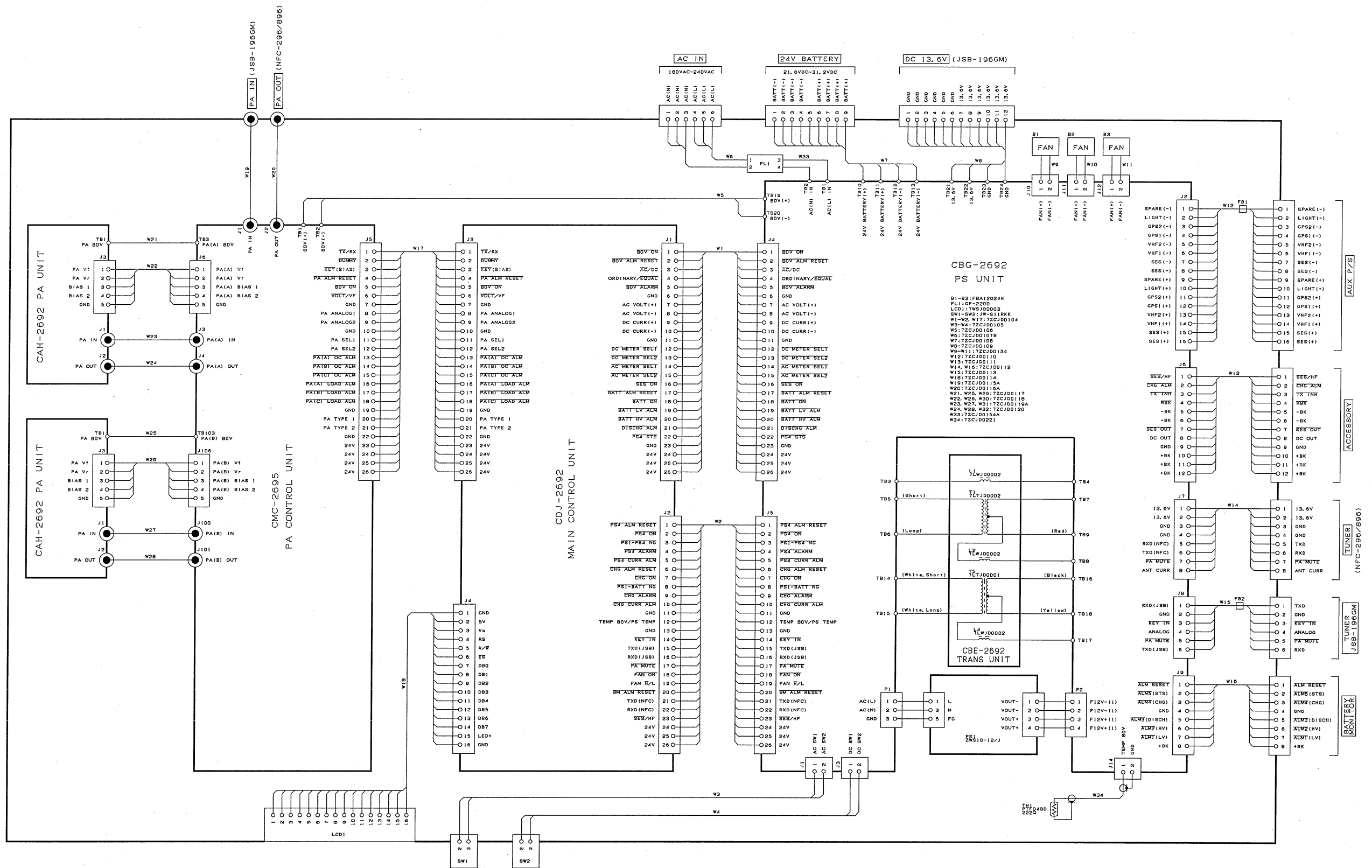


注：特記外の抵抗の単位はΩ、容量の単位はF、
 1000000の単位はMを示す。

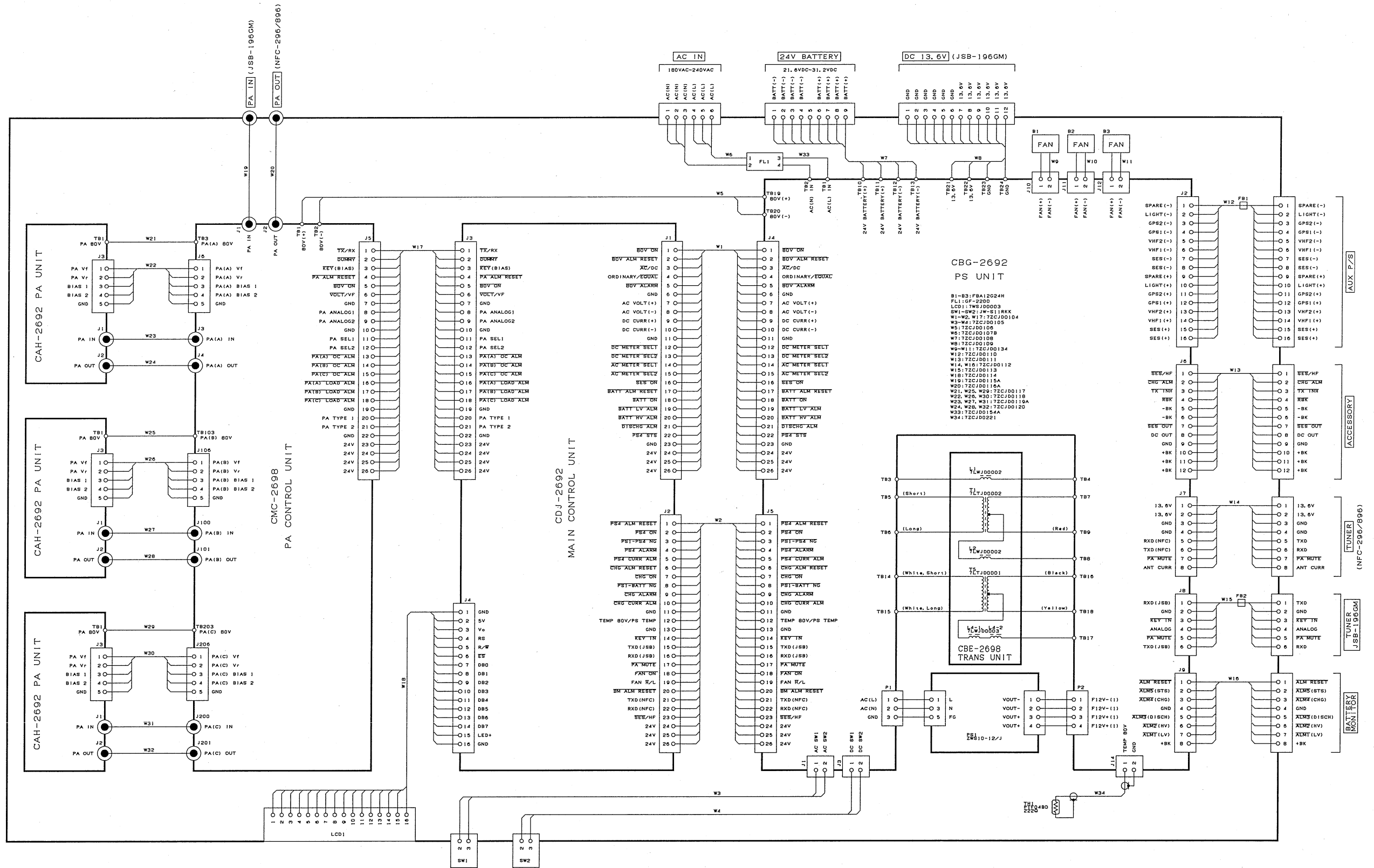
NOTE : Unless otherwise specified
 - Resistance values are in Ω.
 - Capacitance values are in F.
 - Inductance values are in H.

CQC-1962 MOTHER BOARD (1/1)
 DWG.NO. ED02-CQC-1962

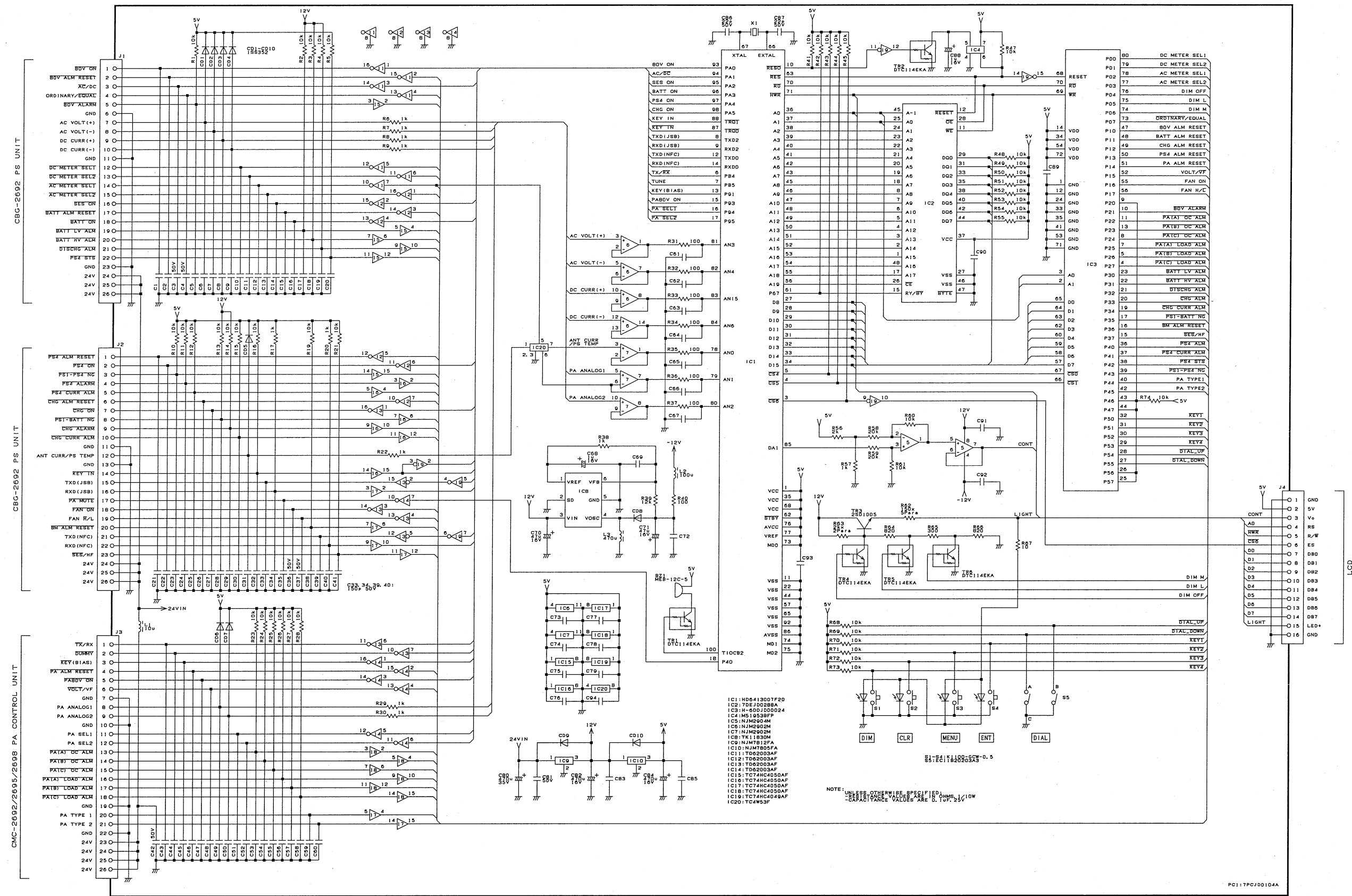




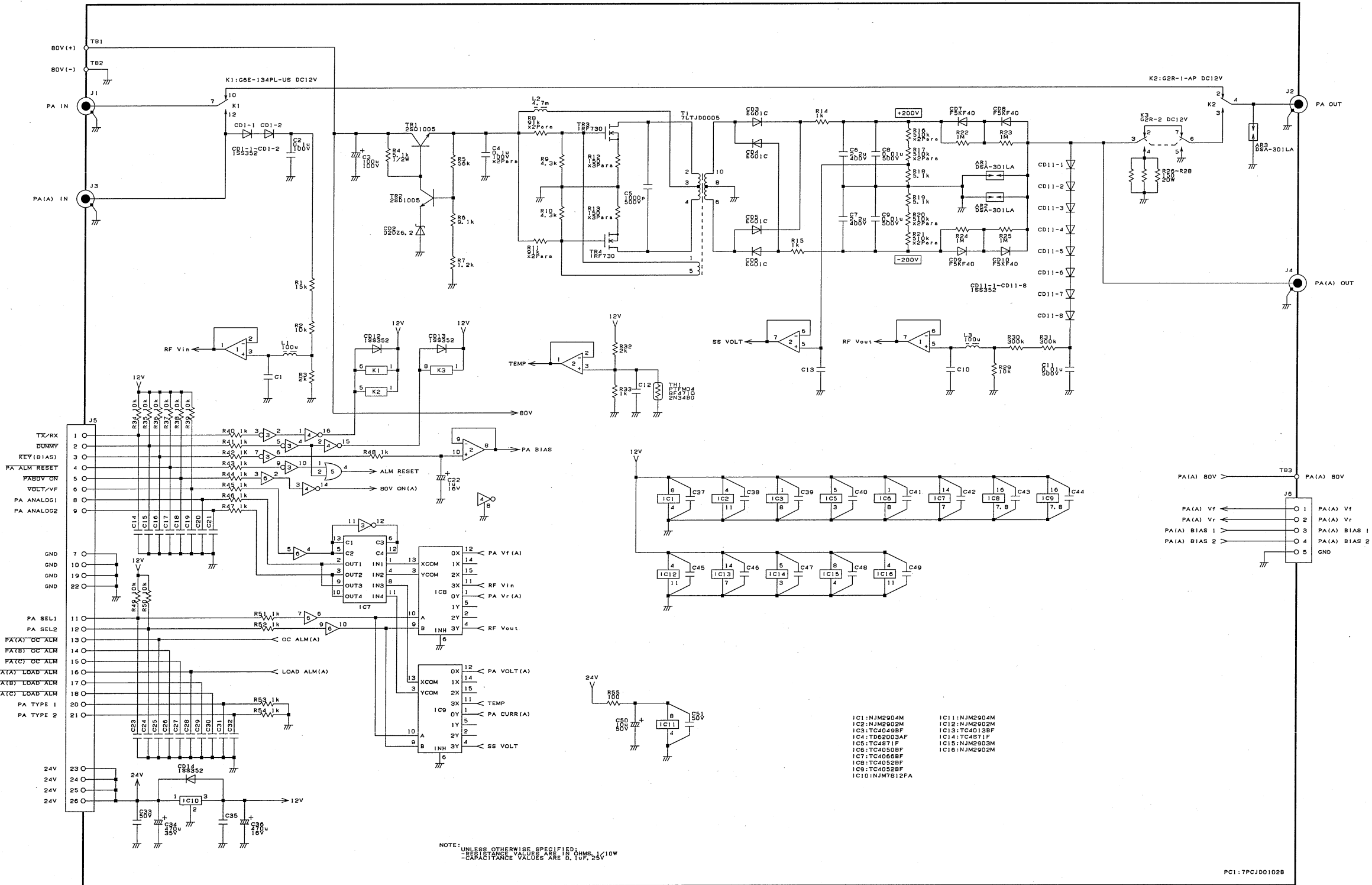
NAH-695 CHASSIS (1/1)
 DWG.NO. ED02-NAH-695



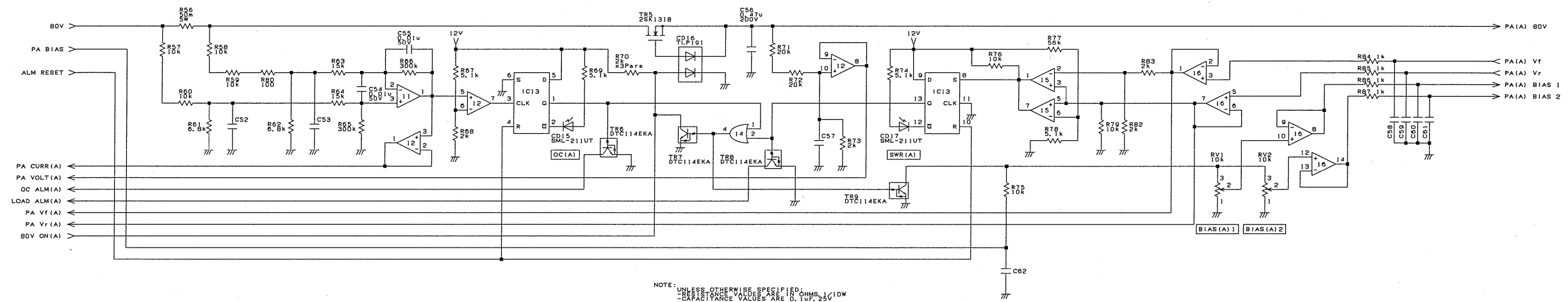
NAH-698 CHASSIS (1/1)
 DWG.NO. ED02-NAH-698



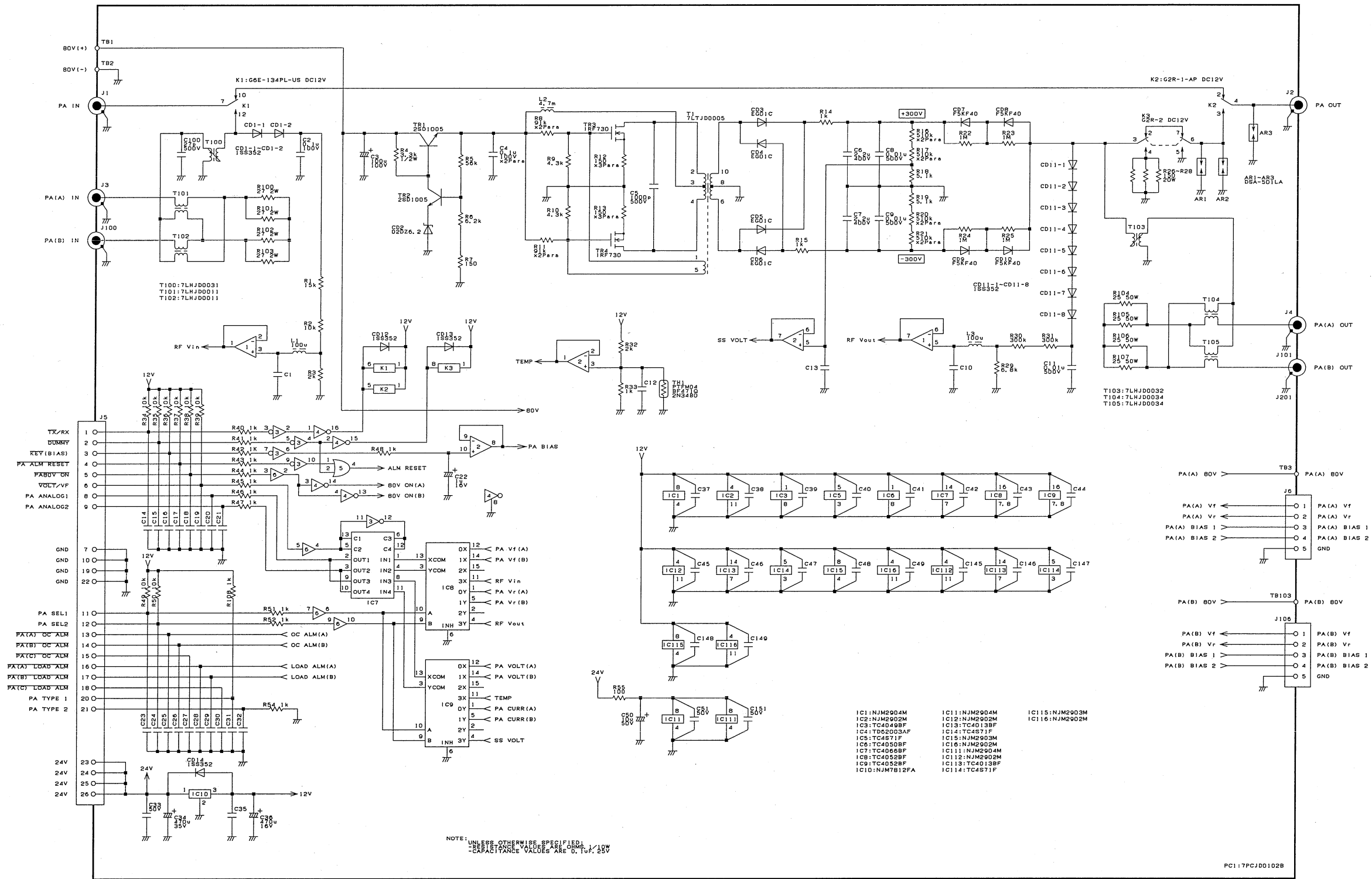
CDJ-2692 MAIN CONTROL UNIT (1/1)
 DWG.NO. ED01-CDJ-2692



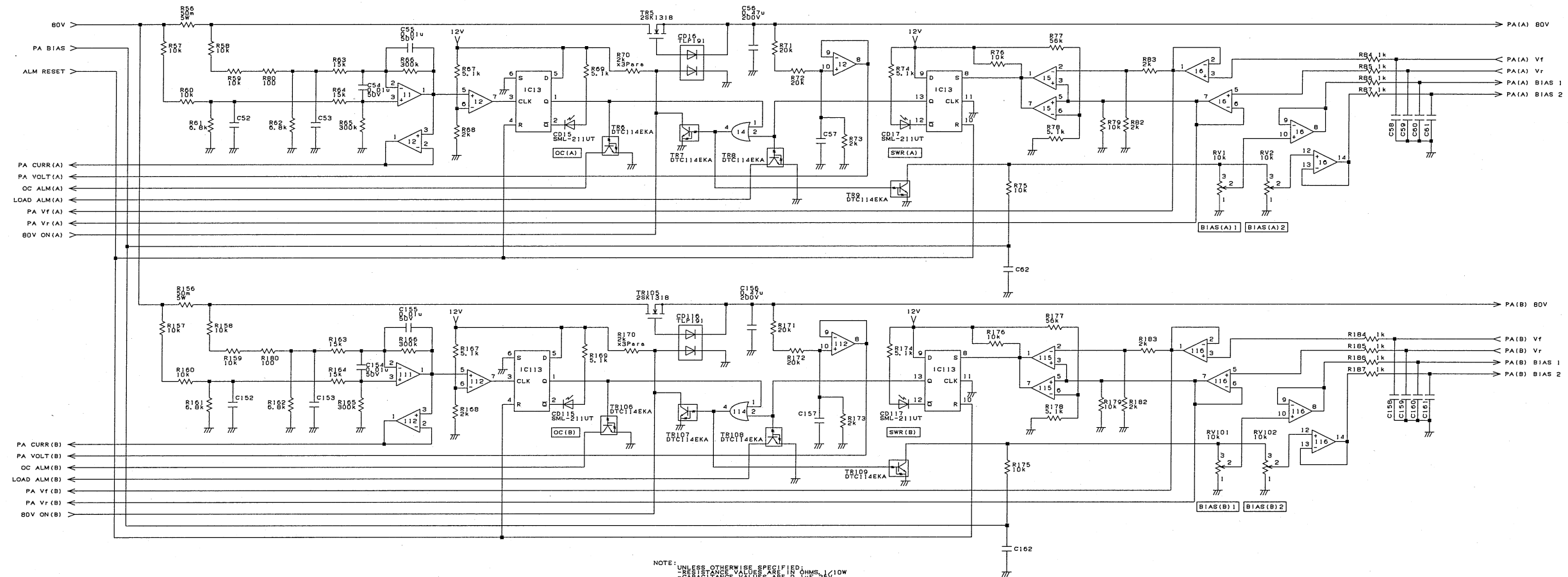
CMC-2692 PA CONTROL UNIT (1/2)
 DWG.NO. ED04-CMC-2692

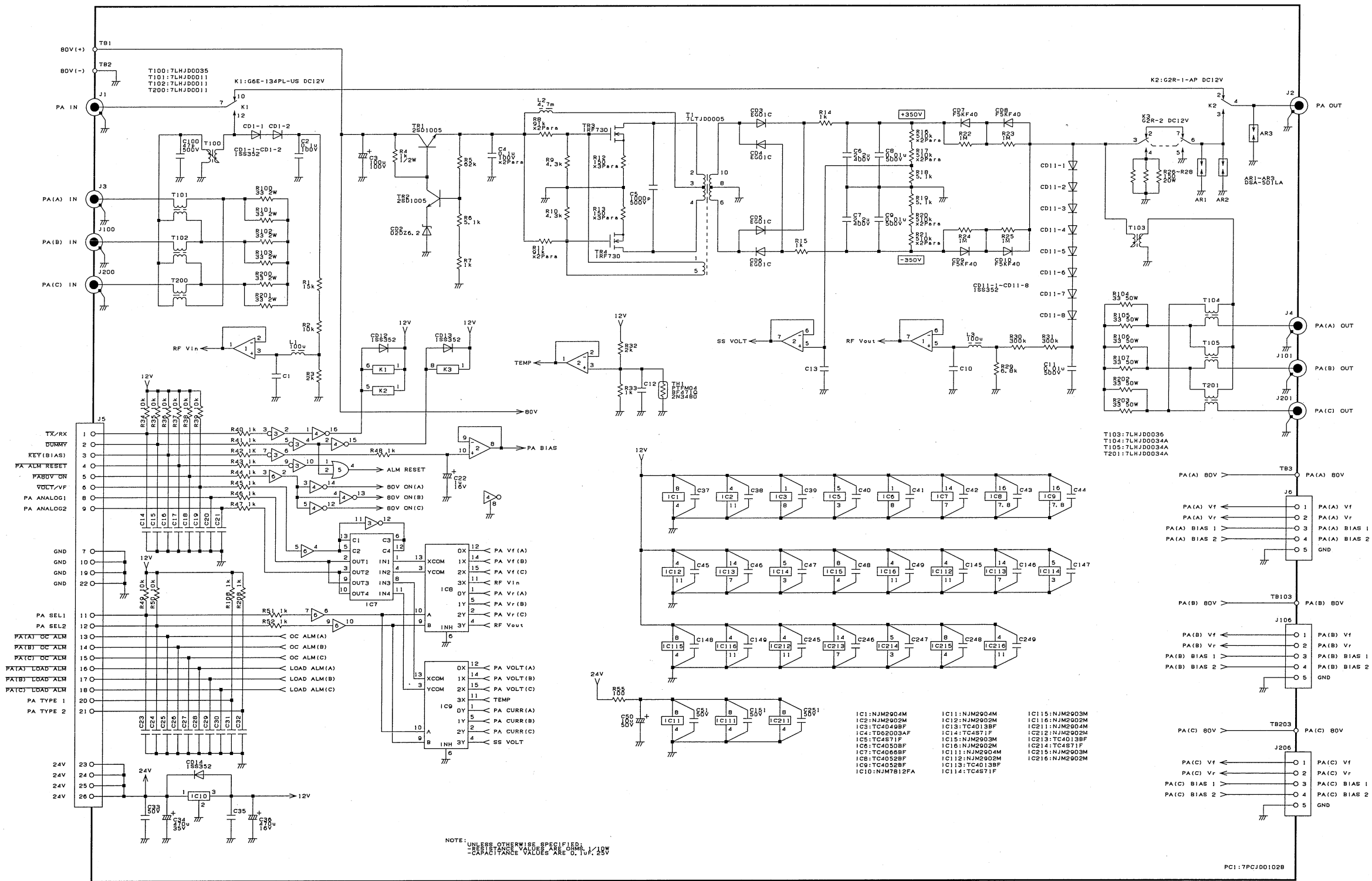


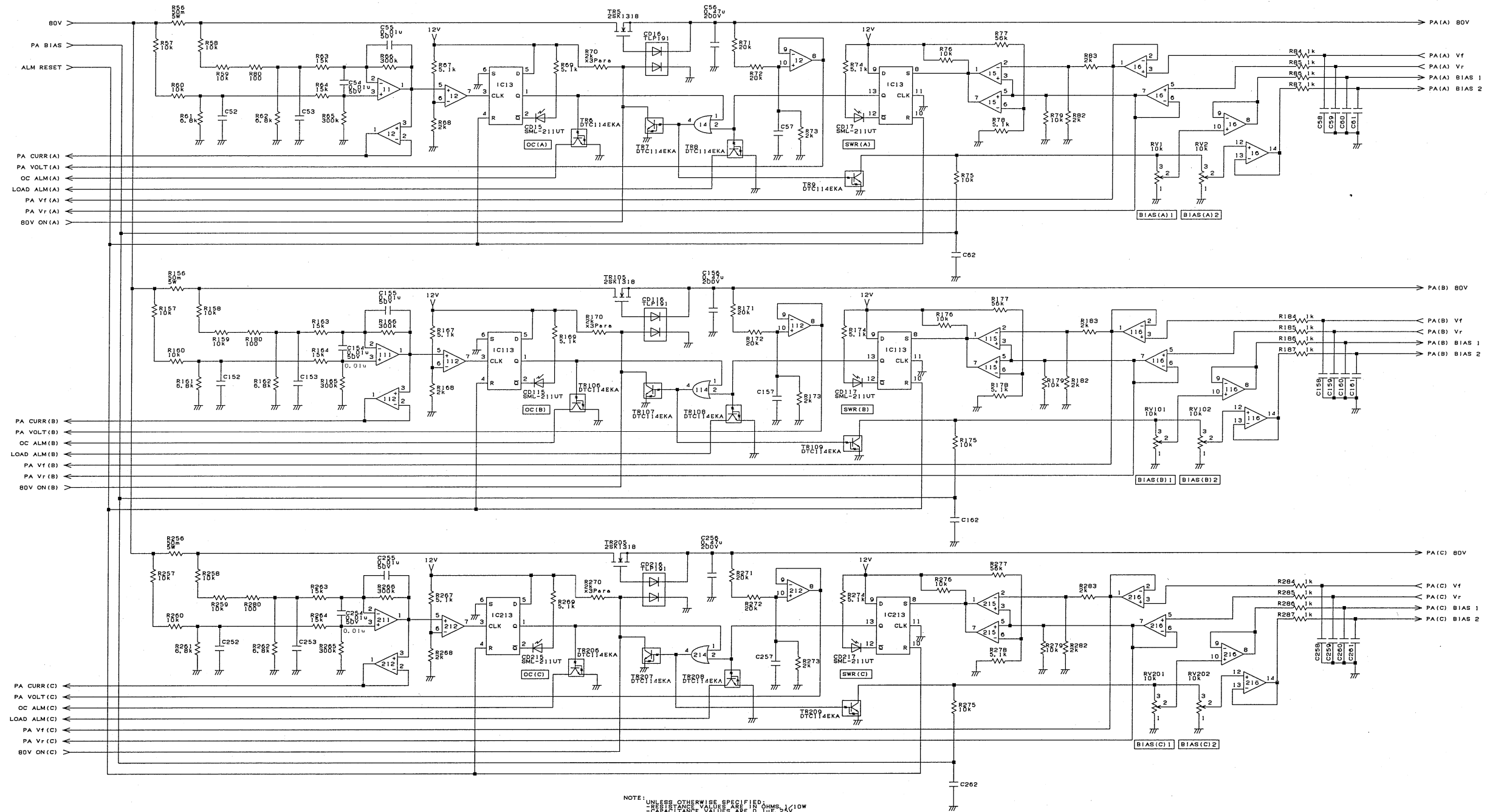
CMC-2692 PA CONTROL UNIT (2/2)
 DWG.NO. ED04-CMC-2692



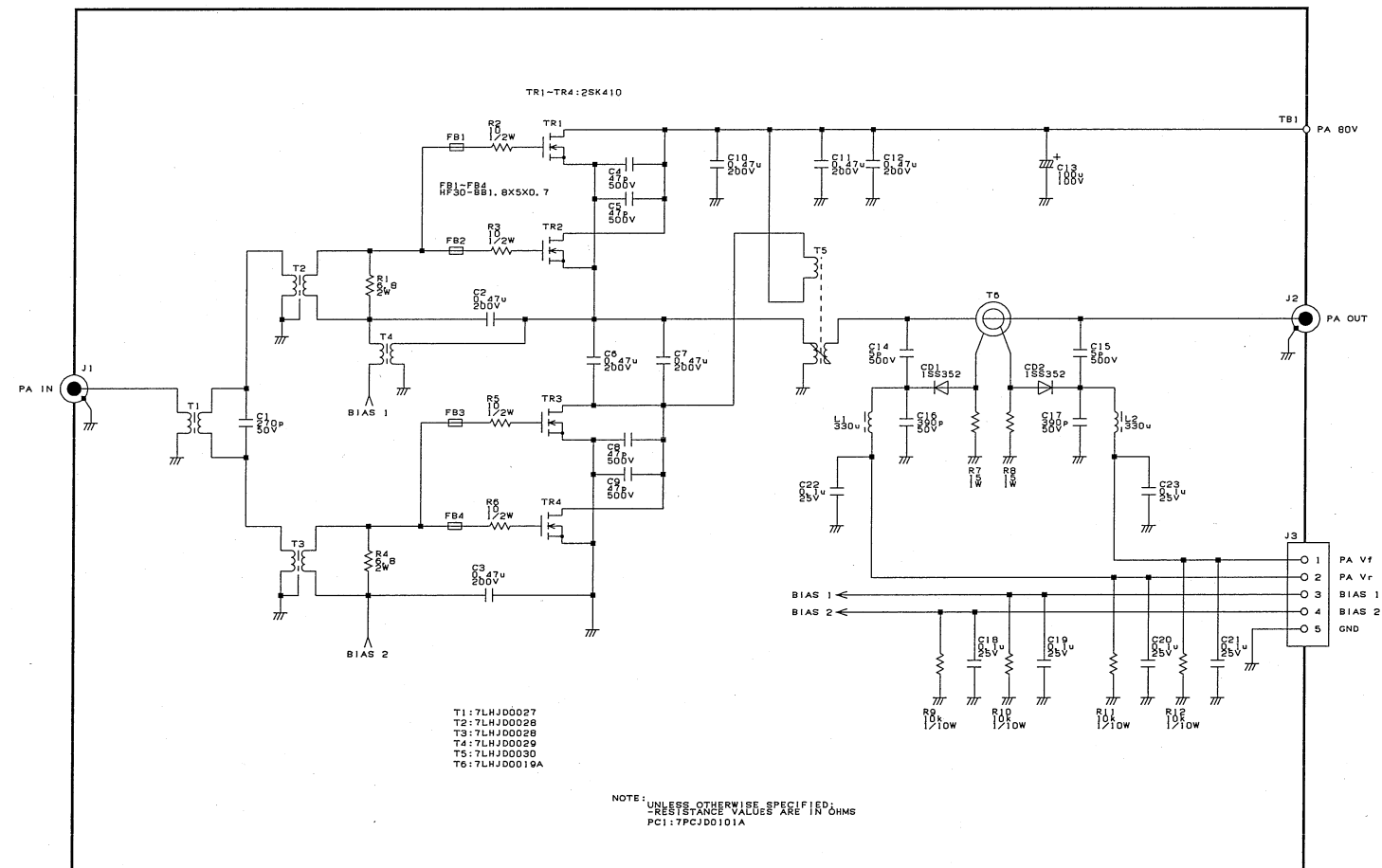
CMC-2695 PA CONTROL UNIT (1/2)
DWG.NO. ED01-CMC-2695

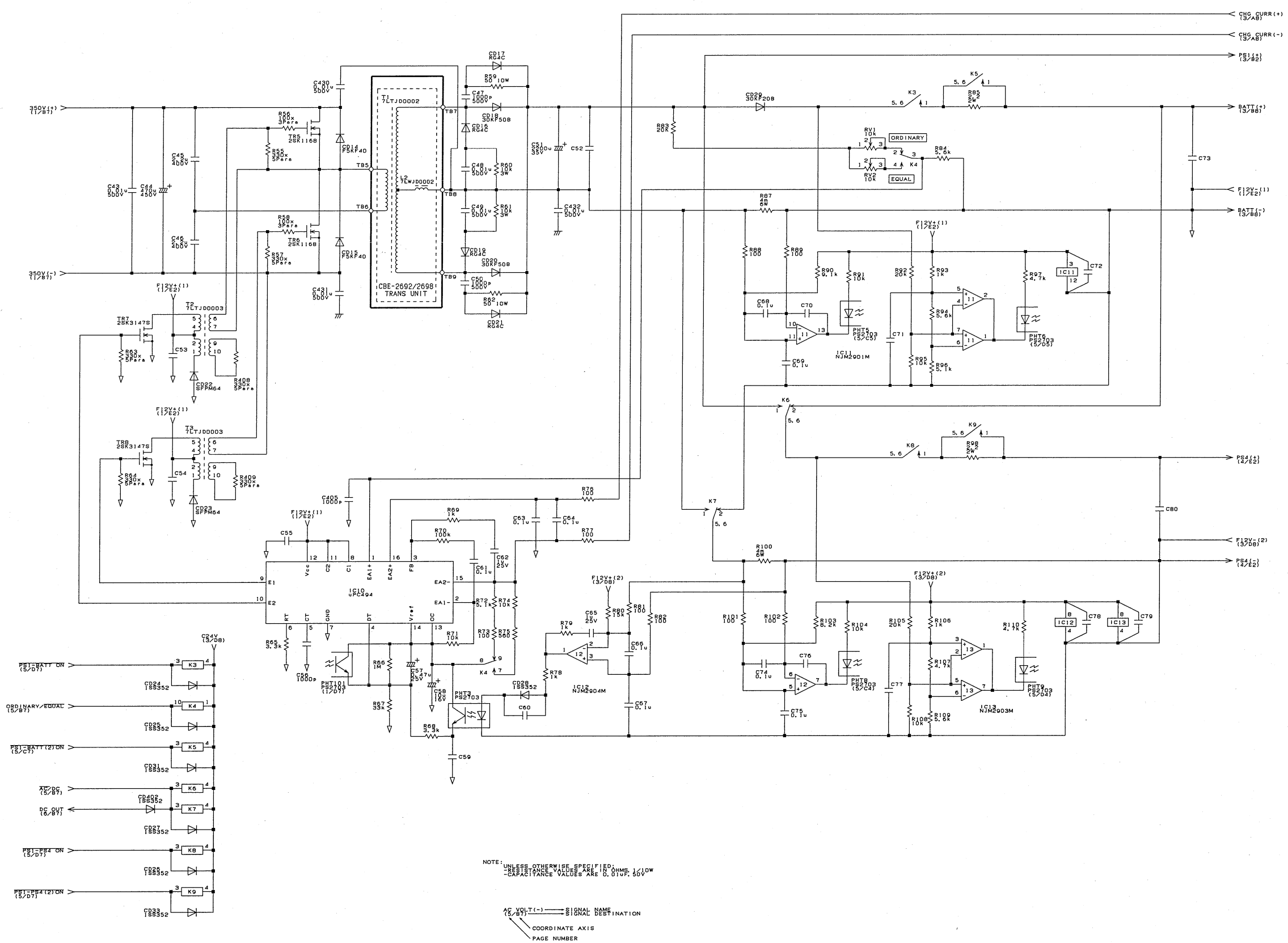




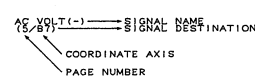


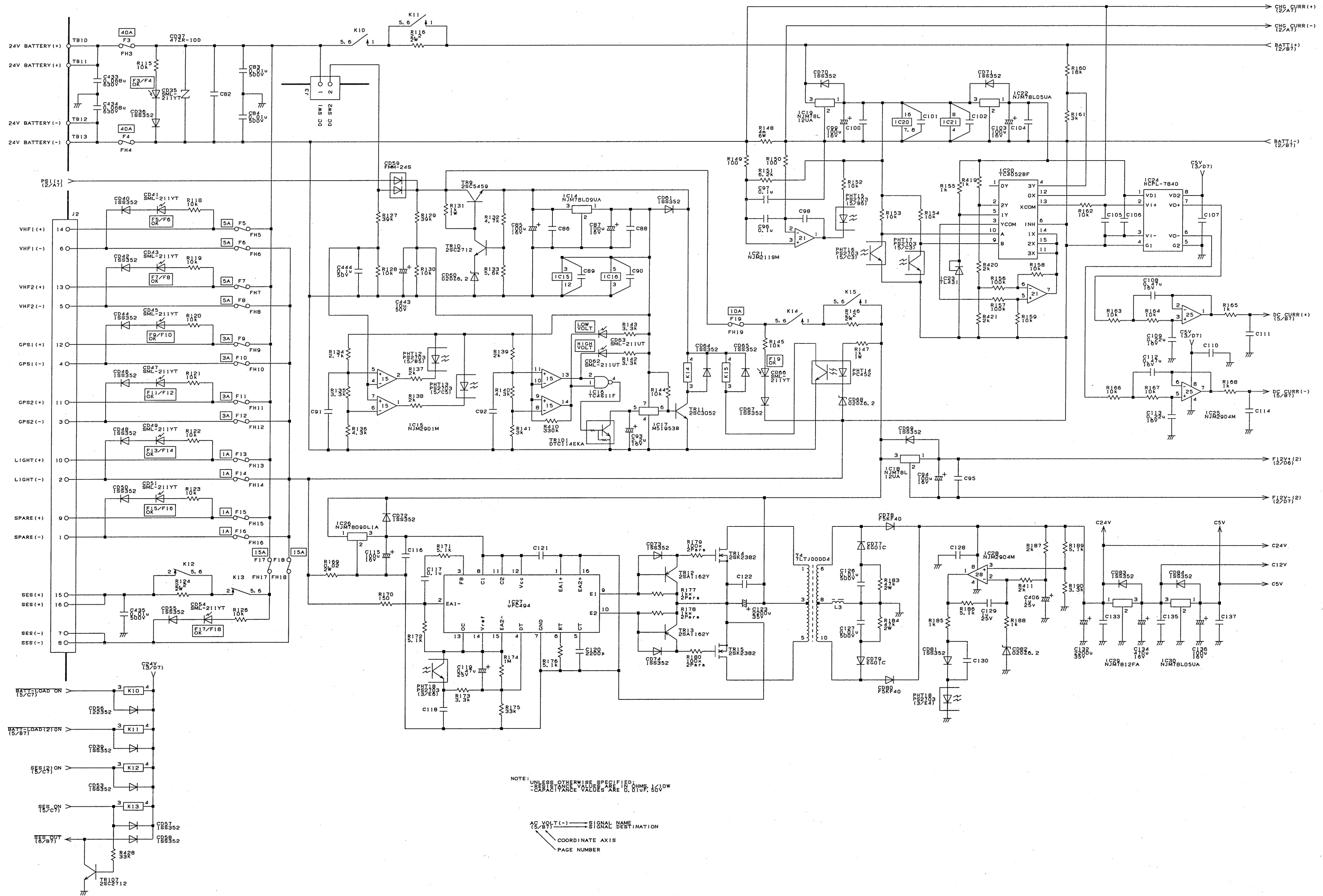
CMC-2698 PA CONTROL UNIT (2/2)
 DWG.NO. ED01-CMC-2698





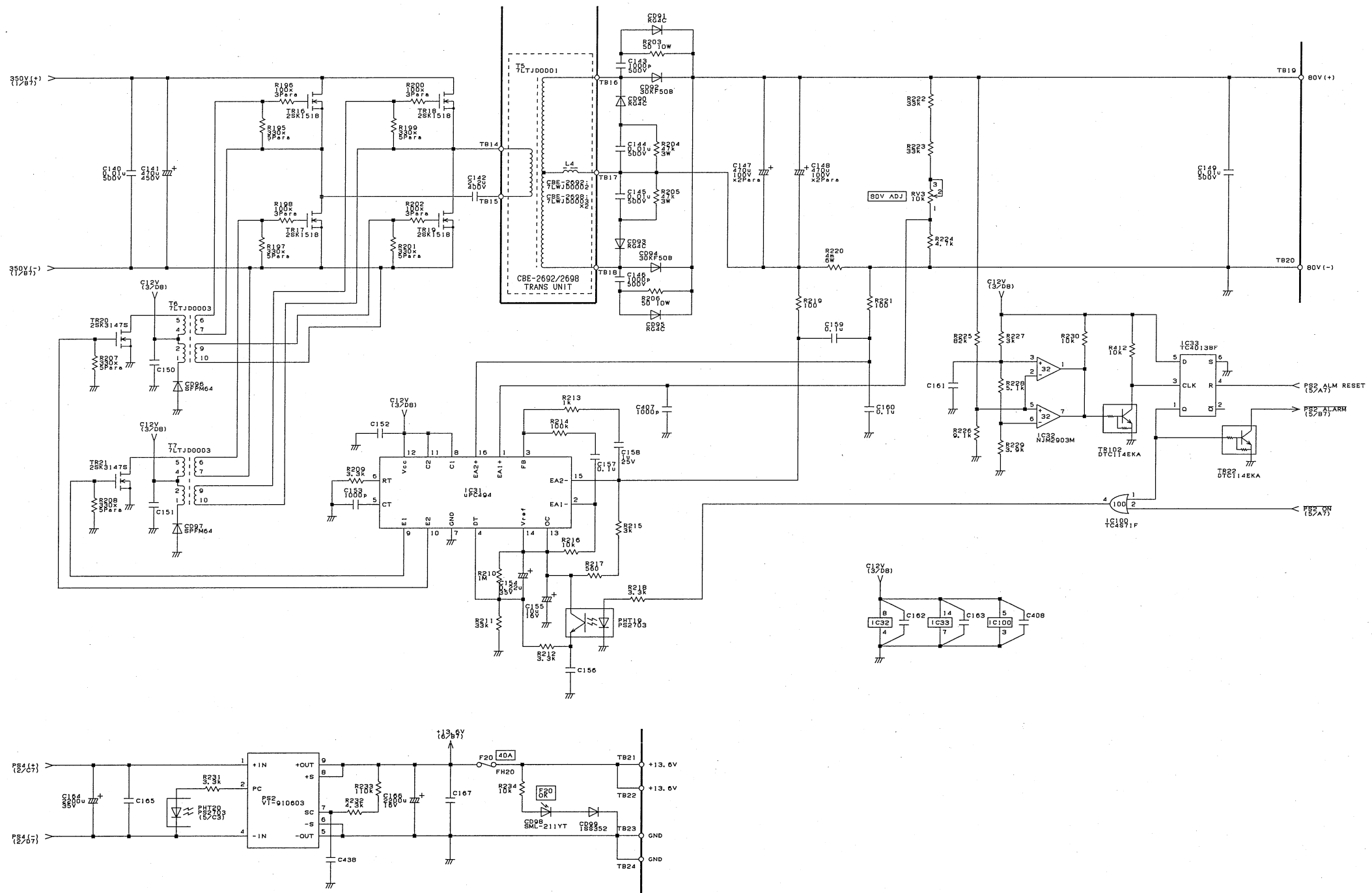
NOTE: UNLESS OTHERWISE SPECIFIED,
 RESISTOR VALUES ARE OHMS, OHMS, 100W
 CAPACITOR VALUES ARE 0.01UF, 100UF





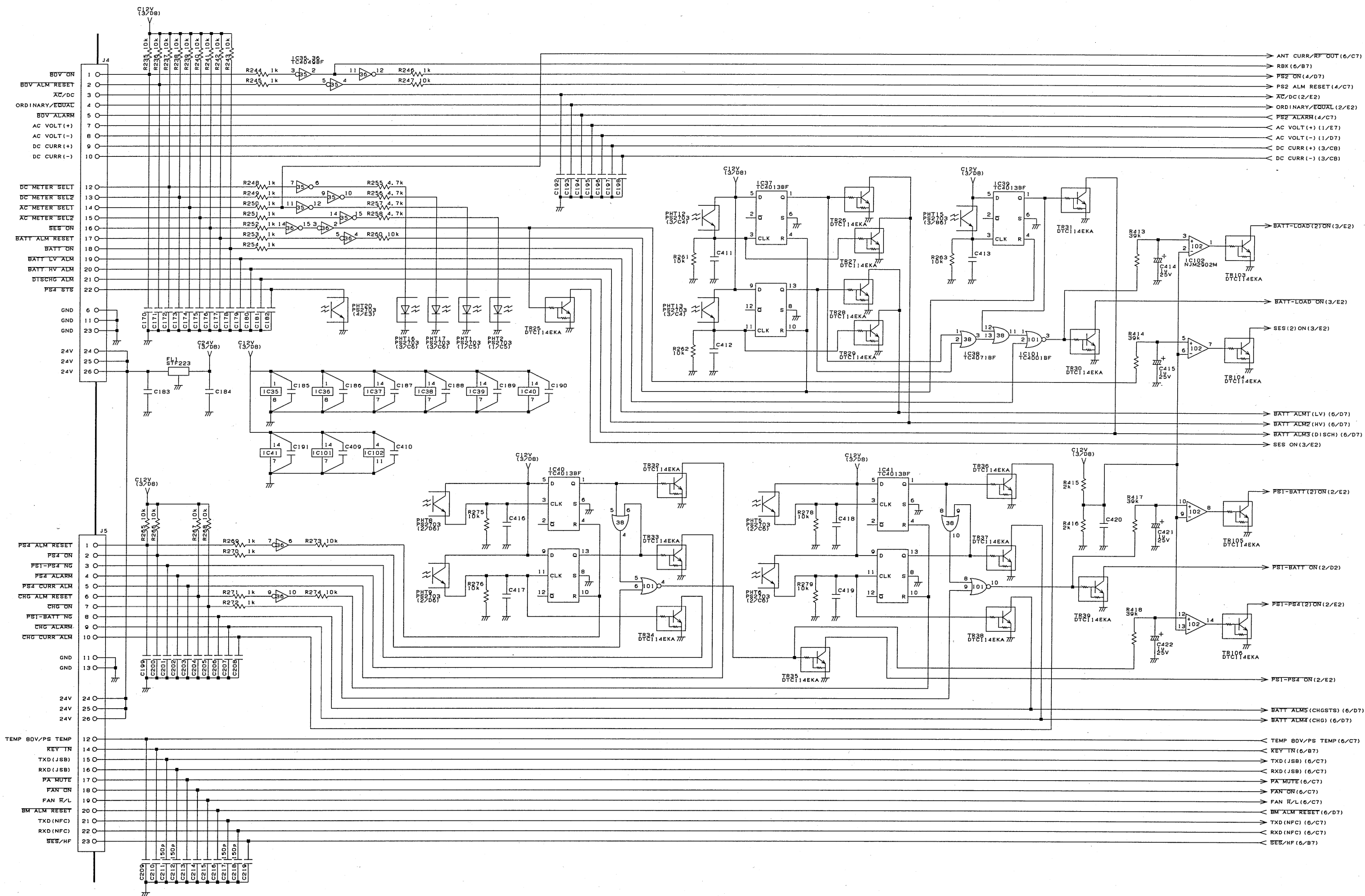
CBG-2692 PS UNIT (3/6)

DWG.NO. ED11-CBG-2692



NOTE: UNLESS OTHERWISE SPECIFIED:
 - RESISTOR VALUES ARE IN OHMS, KΩ OR MΩ
 - CAPACITOR VALUES ARE IN P.F., μF OR μF

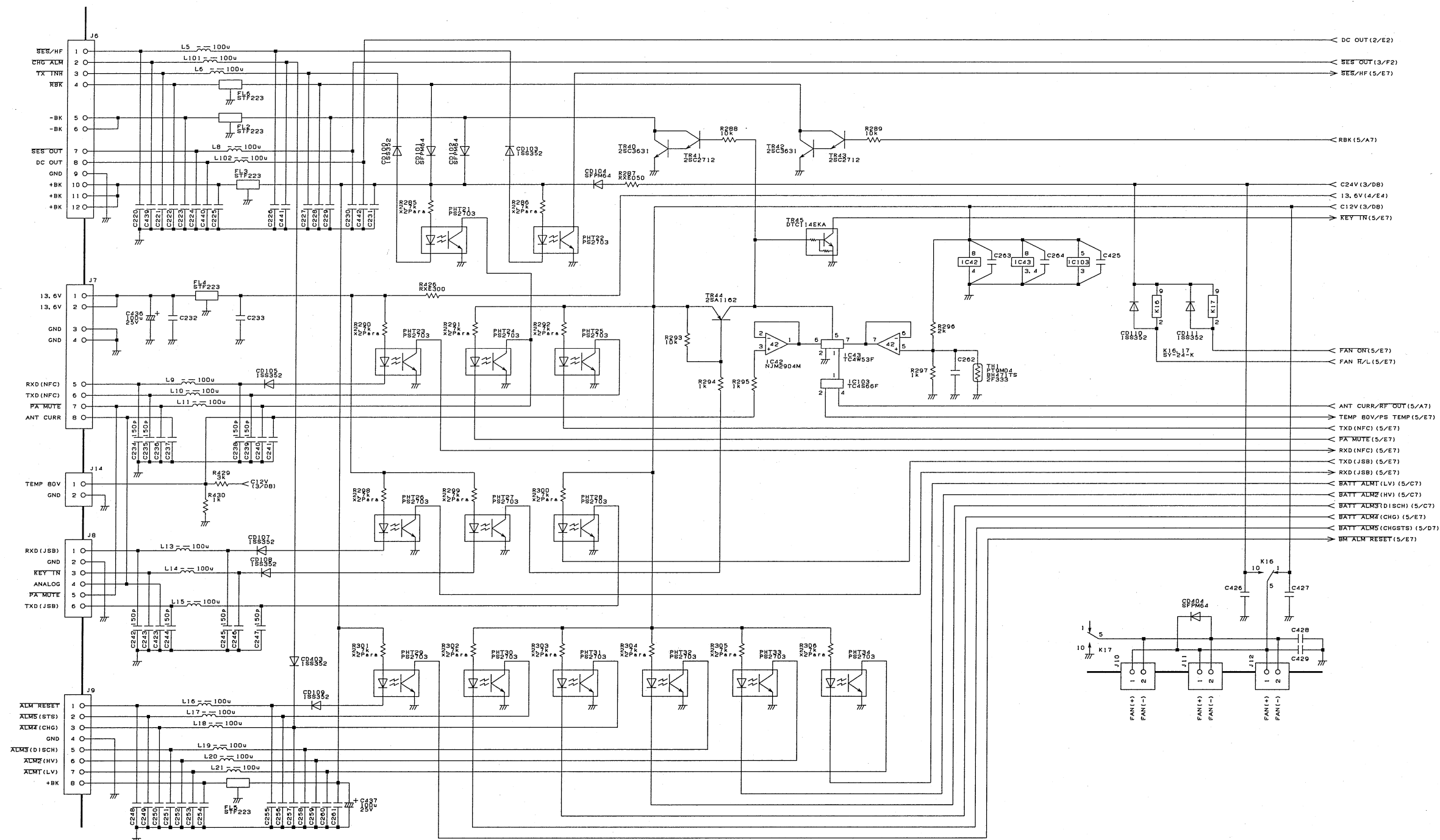
①, ②, ③, ④, ⑤, ⑥, ⑦, ⑧, ⑨, ⑩, ⑪, ⑫, ⑬, ⑭, ⑮, ⑯, ⑰, ⑱, ⑲, ⑳, ㉑, ㉒, ㉓, ㉔, ㉕, ㉖, ㉗, ㉘, ㉙, ㉚, ㉛, ㉜, ㉝, ㉞, ㉟, ㊱, ㊲, ㊳, ㊴, ㊵, ㊶, ㊷, ㊸, ㊹, ㊺, ㊻, ㊼, ㊽, ㊾, ㊿, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 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992, 993, 994, 995, 996, 997, 998, 999, 1000



NOTE:
 UNLESS OTHERWISE SPECIFIED:
 -RESISTANCE VALUES ARE IN OHMS, 1K=1000
 -CAPACITANCE VALUES ARE IN P.F., 1U=1.0U

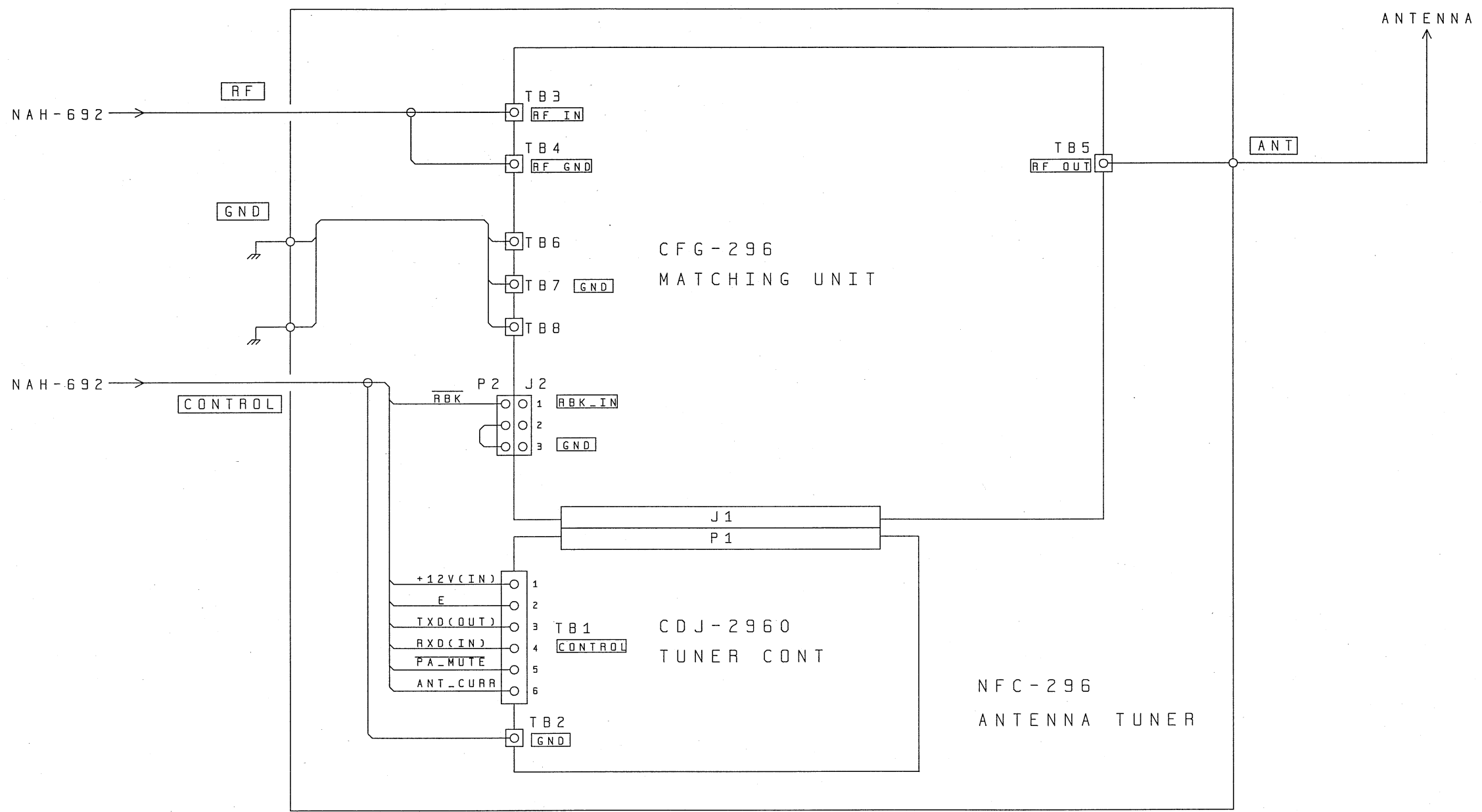
AC VOLT(-) — SIGNAL DESTINATION
 (S, B)
 COORDINATE AXIS
 PAGE NUMBER

CBG-2692 PS UNIT (5/6)
 DWG.NO. ED11-CBG-2692

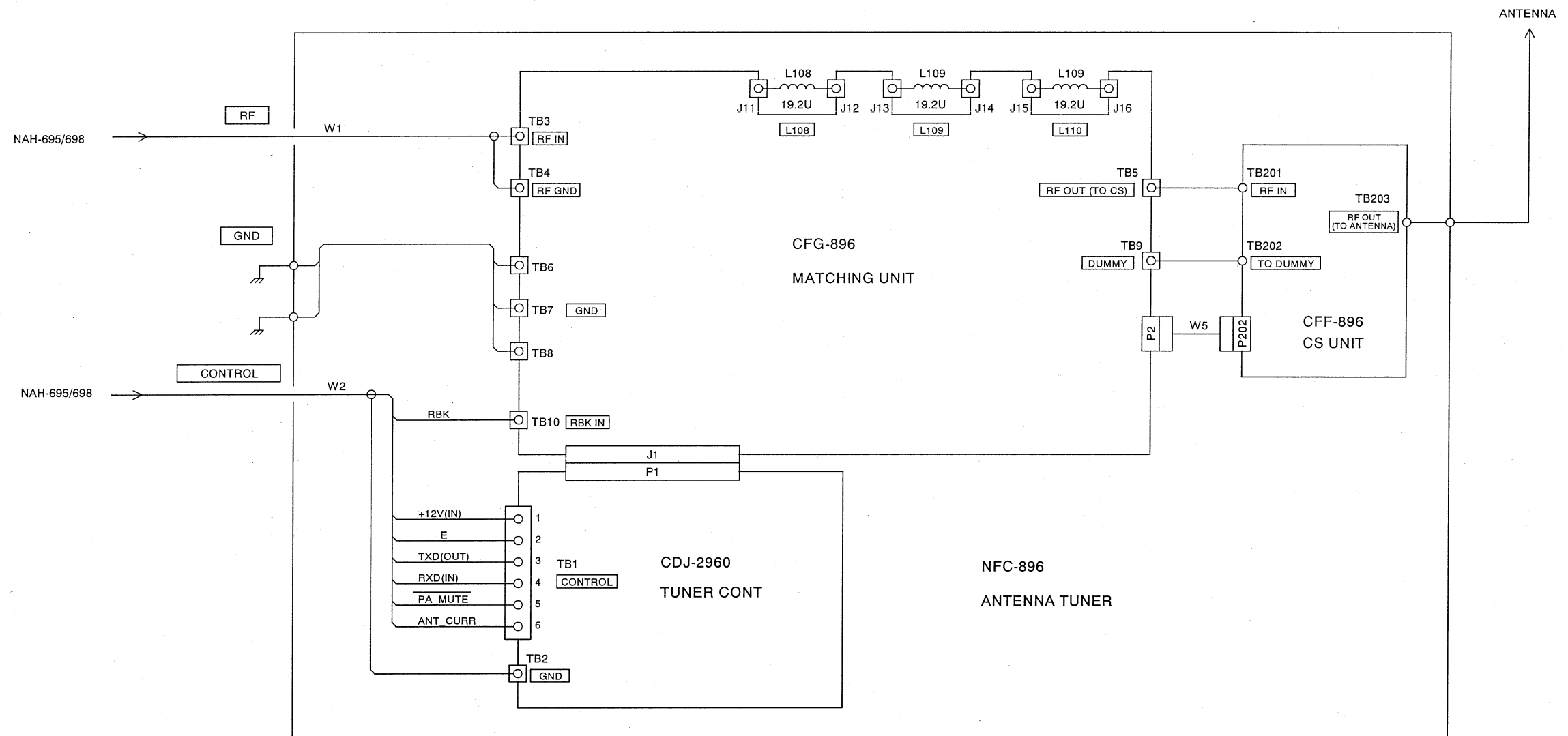


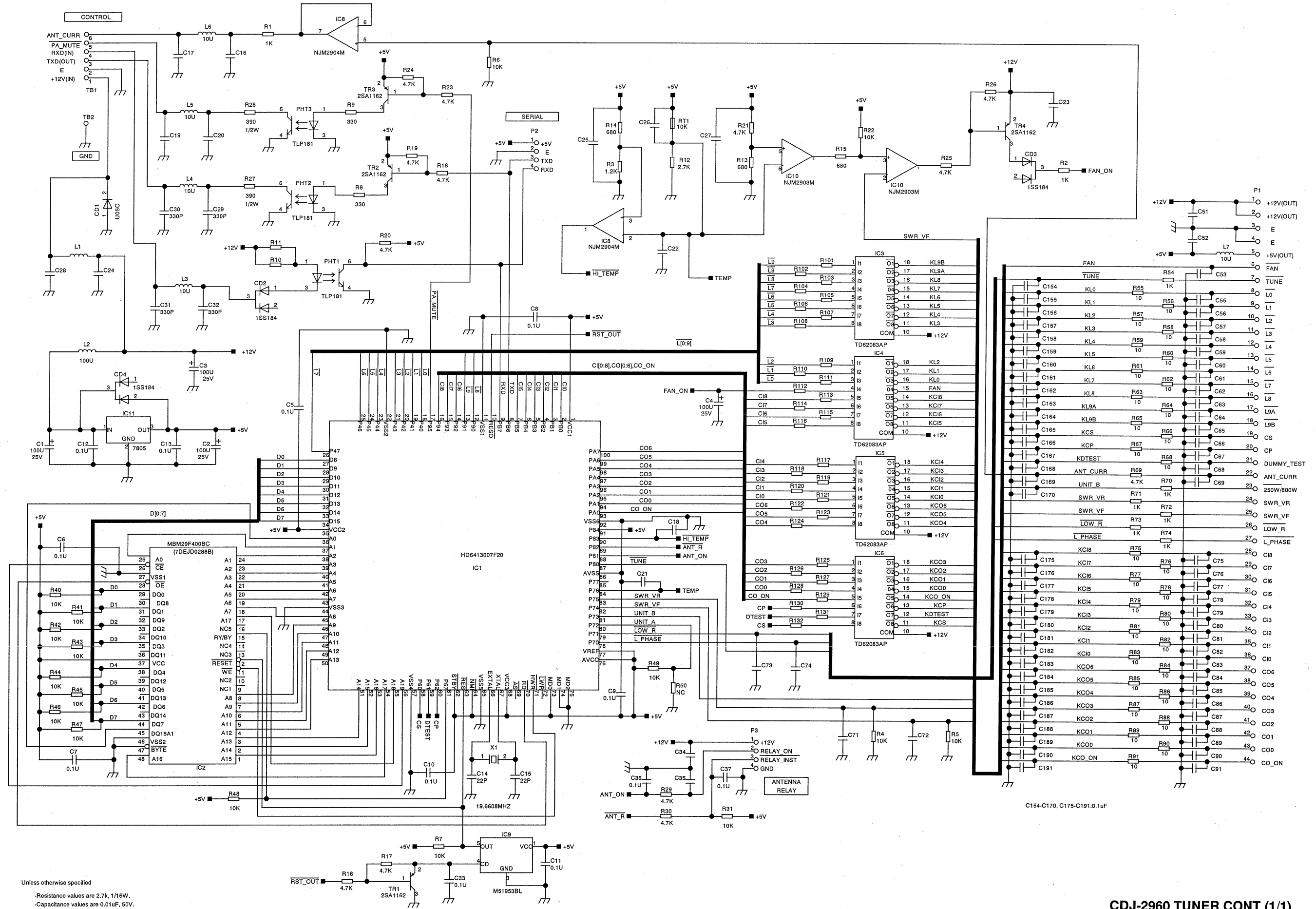
NOTE: UNLESS OTHERWISE SPECIFIED:
 -RESISTANCE VALUES ARE IN OHMS, 100Ω, 1KΩ, 10KΩ, 100KΩ, 1MΩ
 -CAPACITANCE VALUES ARE IN P.F., 100P, 1N, 10N, 100N, 1U, 10U, 100U, 1M, 10M, 100M, 1000M

← SIGNAL DESTINATION
 ← COORDINATE AXIS
 ← PAGE NUMBER



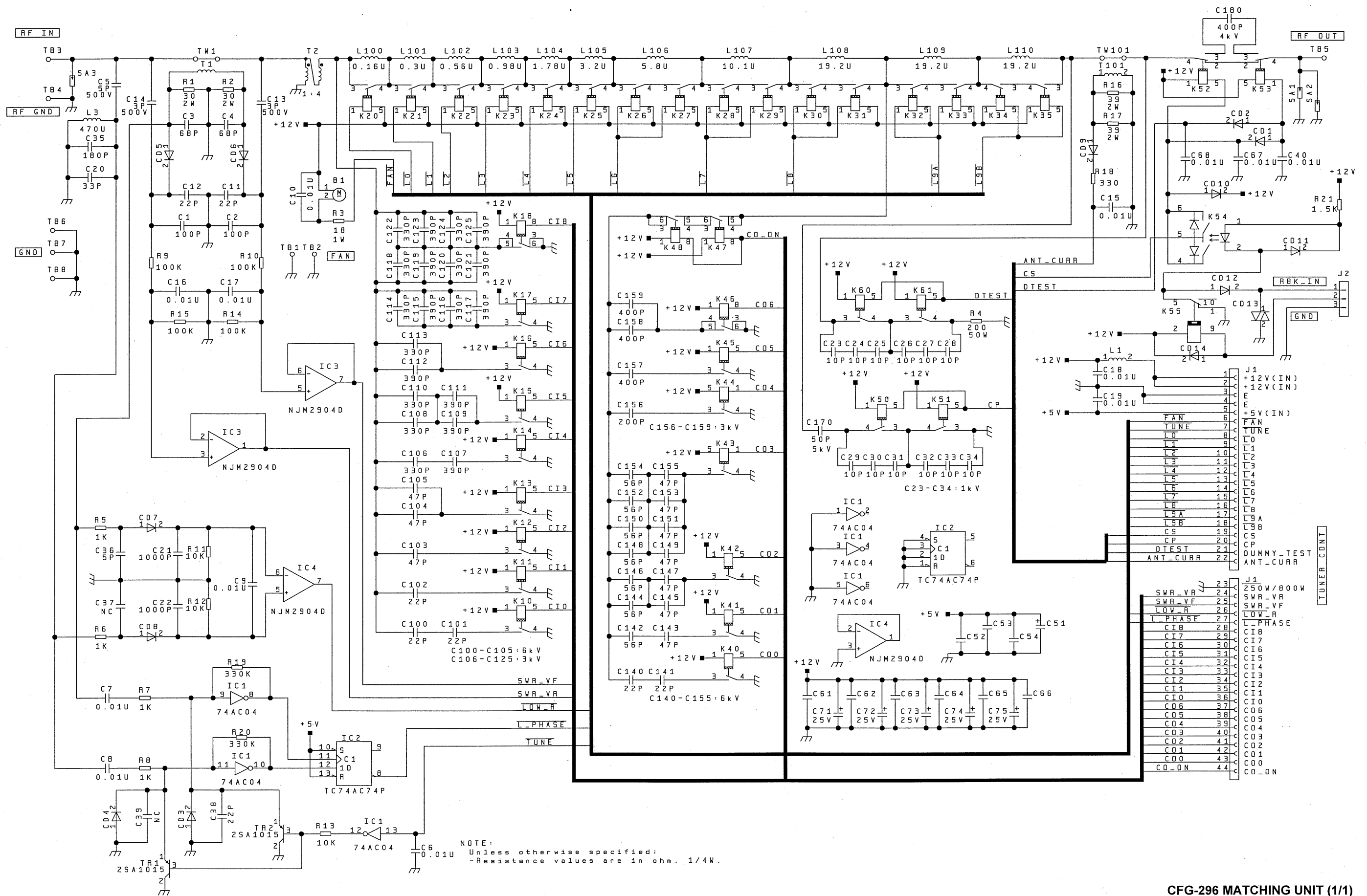
NFC-296 CHASSIS (1/1)
 DWG.NO. ED01-NFC-296





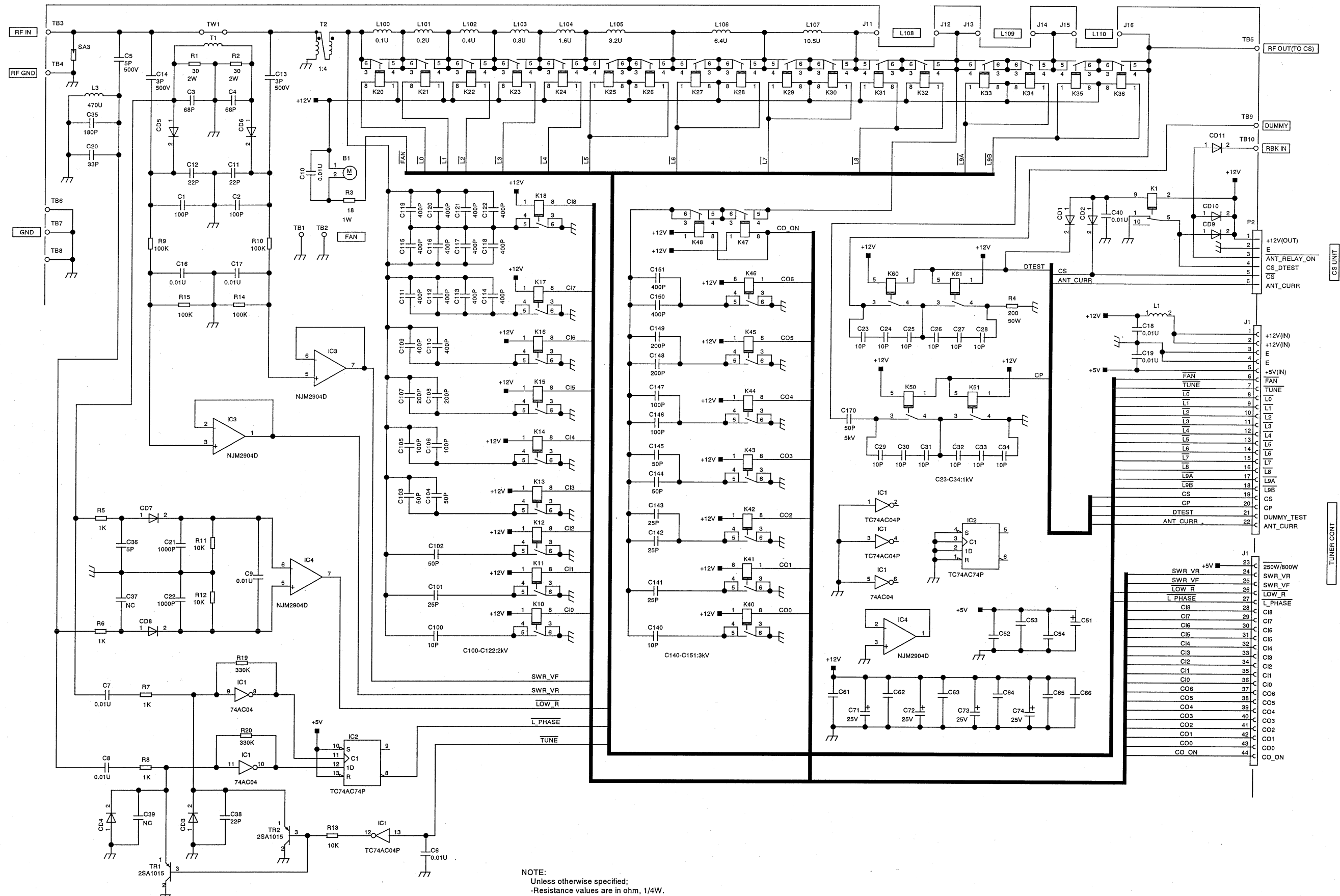
Unless otherwise specified
 -Resistance values are 2.7k, 1/16W.
 -Capacitance values are 0.01uF, 50V.

CDJ-2960 TUNER CONT (1/1)
 DWG.NO. ED01-CDJ-2960

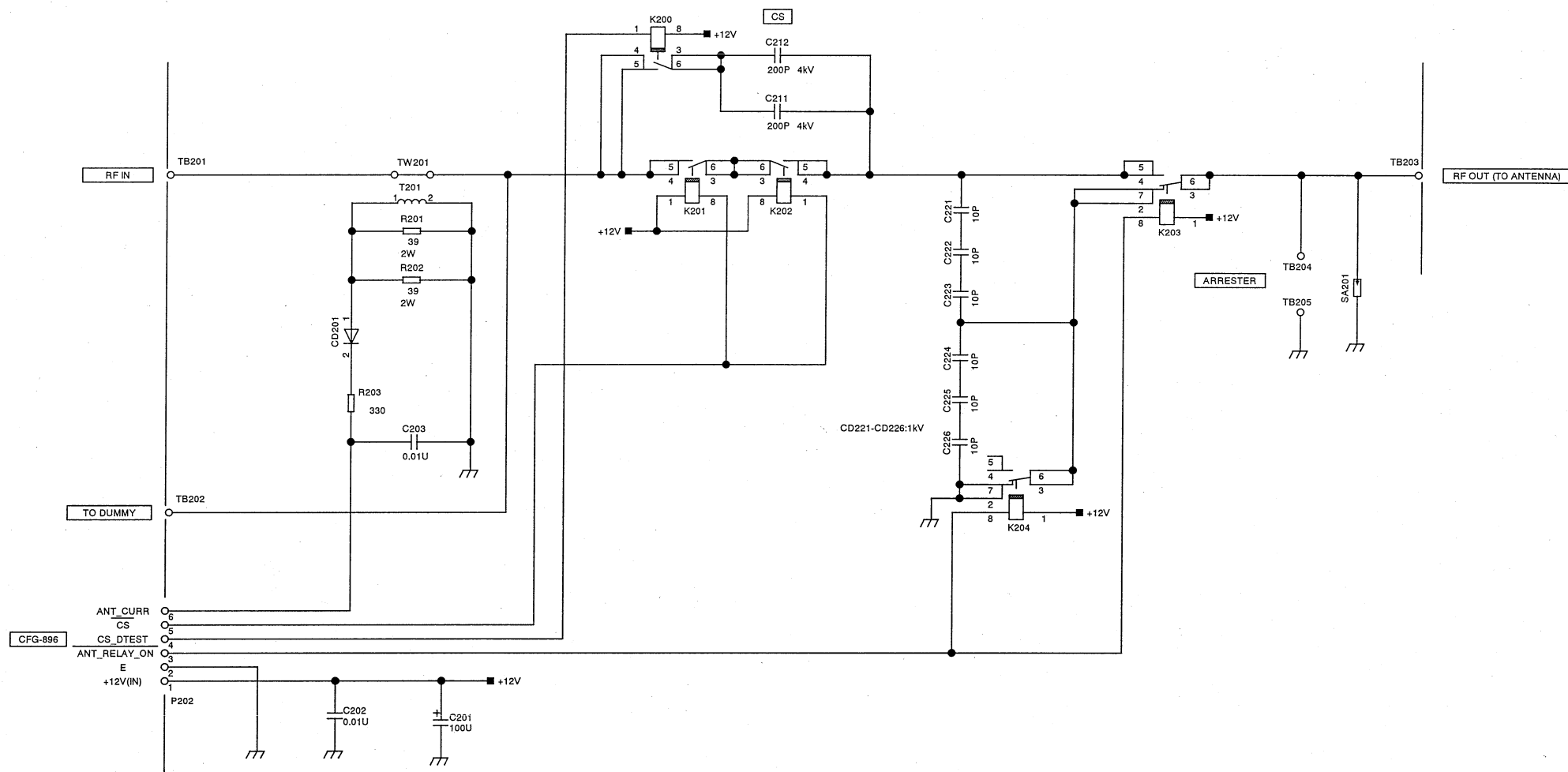


CFG-296 MATCHING UNIT (1/1)

DWG.NO. ED01-CFG-296



CFG-896 MATCHING UNIT (1/1)
 DWG.NO. ED01-CFG-896



NOTE:
 Unless otherwise specified;
 -Resistance values are in ohm, 1/4W.

TECHNICAL INFORMATION
FROM
NETWORK AND COMMUNICATION GROUP

Subject : Earth connection of TX antenna in NFC-296 Antenna Tuner
Equipment : NFC-296 Antenna Tuner for JSS-296 MF/HF Radio Equipment
Date : Feb 22, 2005
Issue Number : JD-1307-05

M.Takayama
Manager,
Network and Communication Group
Engineering Department
Marine Electronics Division

Priority A: Carry out immediately
 B: Carry out at periodical inspection
 C: Carry out upon client's request
 D: Information and news

1. Subject

Earth connection of TX antenna in NFC-296 Antenna Tuner

2. Objective Equipment

The following numbered NFC-296 Antenna Tuner within Tanker.

Serial number: From BC22067 to BC24090

3. Outlines

Problem:

In NFC-296 Antenna Tuner for JSS-296 MF/HF Radio Equipment, TX antenna may be not connected to the earth in standby condition.

Countermeasure:

Replace CFG-296 Matching Unit and Control cable in NFC-296 Antenna Tuner with followings according to attached document "CFG-296 Matching Unit replacement procedures"

CFG-296 Matching Unit of PCB version 7PCJD0099C (Stock code: CFG-296-A)

Control cable (Stock code: 7ZCJD0258)

4. Attached document

Attachment1: CFG-296 Matching Unit replacement procedures

Attachment2: NFC-296 Antenna Tuner/CFG-296 Matching Unit circuit diagram

CFG-296 Matching Unit replacement procedures

Outline

In CFG-296 Matching Unit of NFC-296 Antenna Tuner, there are the following PCB versions.

PCB version: 7PCJD0099A (Stock code: CFG-296)

PCB version: 7PCJD0099C (Stock code: CFG-296-A)

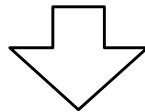
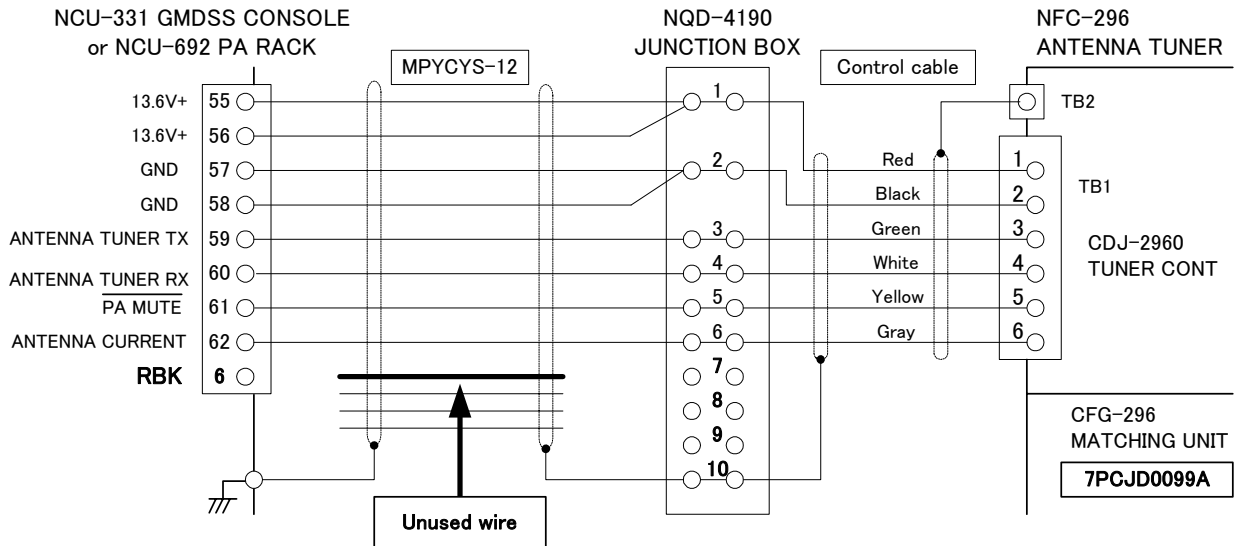
Therefore, in replacing CFG-296 Matching Unit, refer to the following table and choose the PCB version.

| The PCB version before replacement | Ship kind | Replaceable PCB version | Item for replacement | Condition of Tx antenna in the standby | | Reference procedure |
|---|-----------|-------------------------|--|---|---------------------------------------|---------------------|
| | | | | Before replacement | After replacement | |
| 7PCJD0099A Serial No.: From BC22067 to BC24090 | Tanker | 7PCJD0099C | PCB Stock code: CFG-296-A Control Cable Stock code: 7ZCJD0258 Vinyl tape | Tx antenna may not be connected to the earth. | Tx antenna is connected to the earth. | A |
| | Others | 7PCJD0099C | PCB Stock code: CFG-296-A | Tx antenna may not be connected to the earth. | Same as left | B |
| | | 7PCJD0099A | PCB Stock code: CFG-296 | | | |
| 7PCJD0099C Serial No.: BC24351 or later | — | 7PCJD0099C | PCB Stock code: CFG-296-A | Tx antenna is connected to the earth. | Same as left | C |

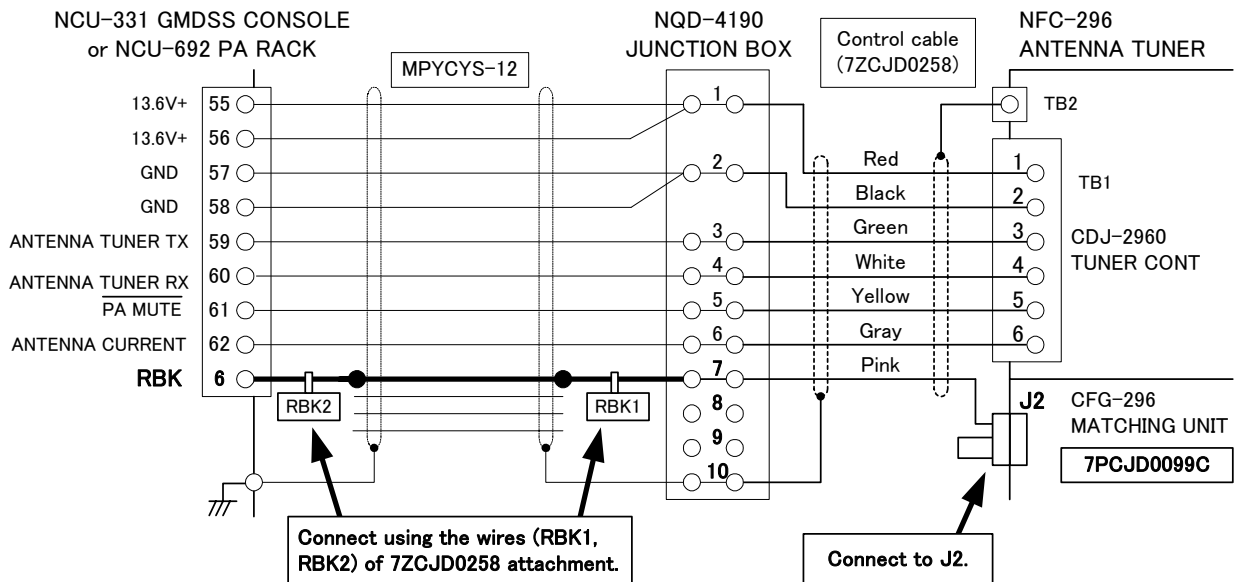
CFG-296 replacement procedures A

At ship (Tanker etc.) which needs to connect Tx antenna to the earth at standby condition, replace the PCB of 7PCJD0099A of CFG-296 with 7PCJD0099C according to this procedures.

Outline figure

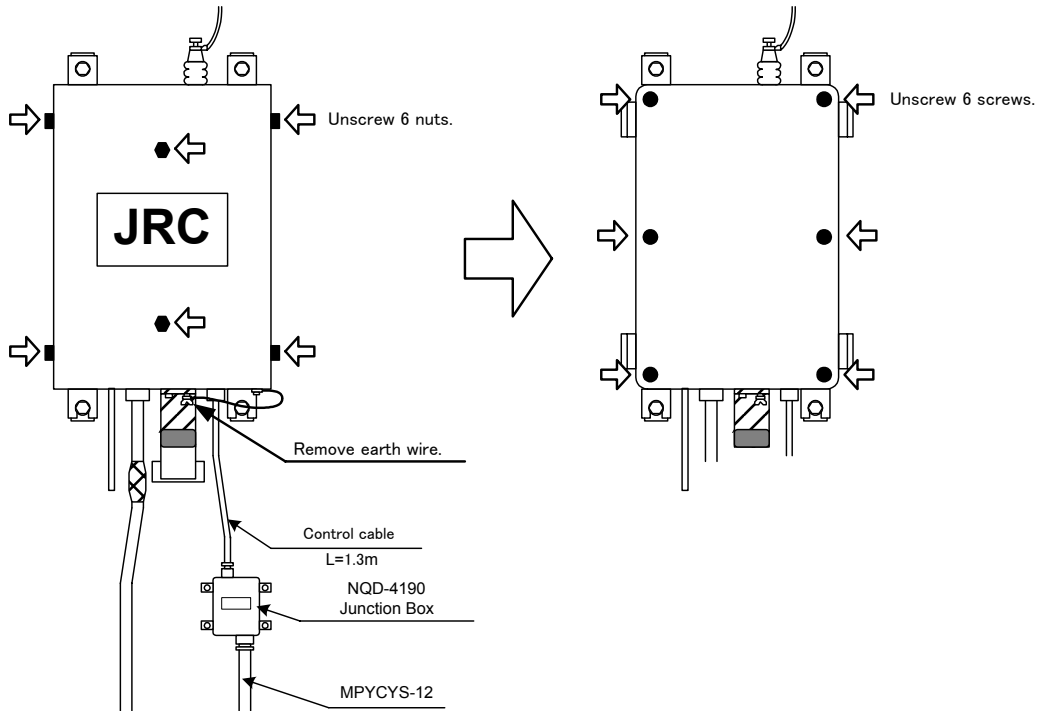


Replace CFG-296 of 7PCJD0099A with 7PCJD0099C.
Replace Control cable with 7ZCJD0258.

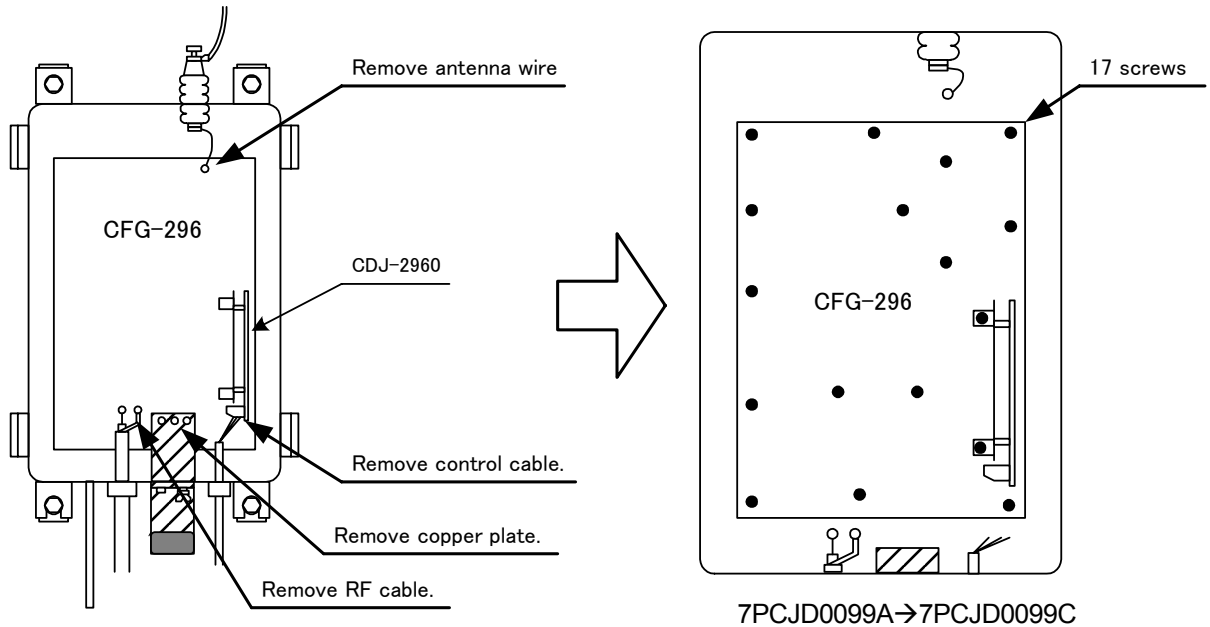


Procedure

1. Turn off AC and DC switches of NAH-692/695/698.
2. Remove earth wire, shade cover and upper cover.



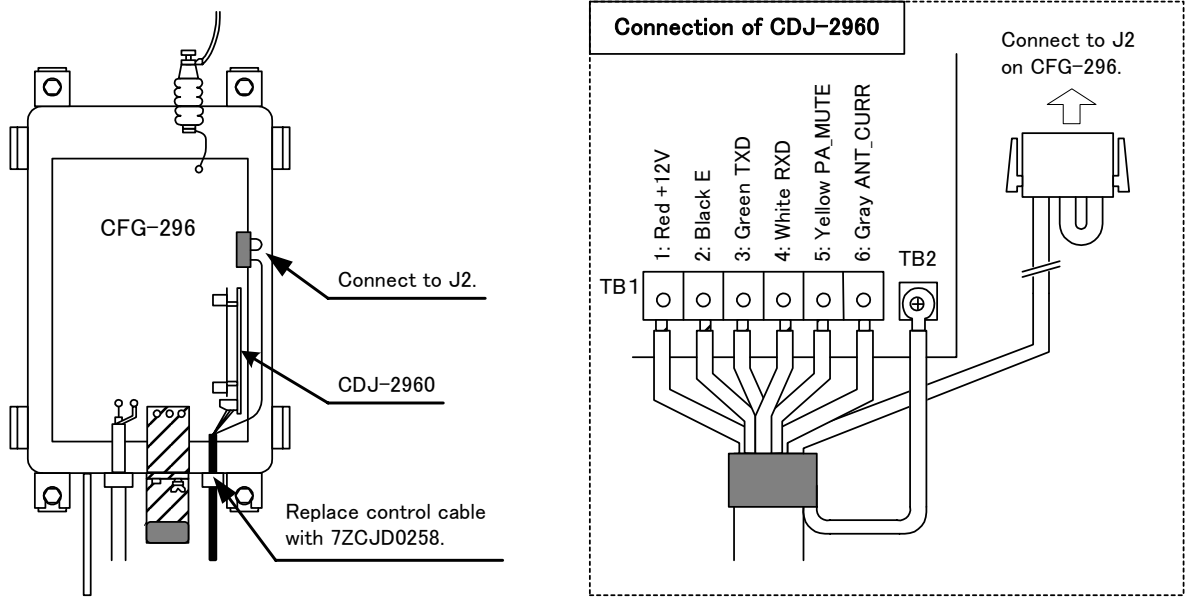
3. Replace CFG-296 of 7PCJD0099A with 7PCJD0099C.



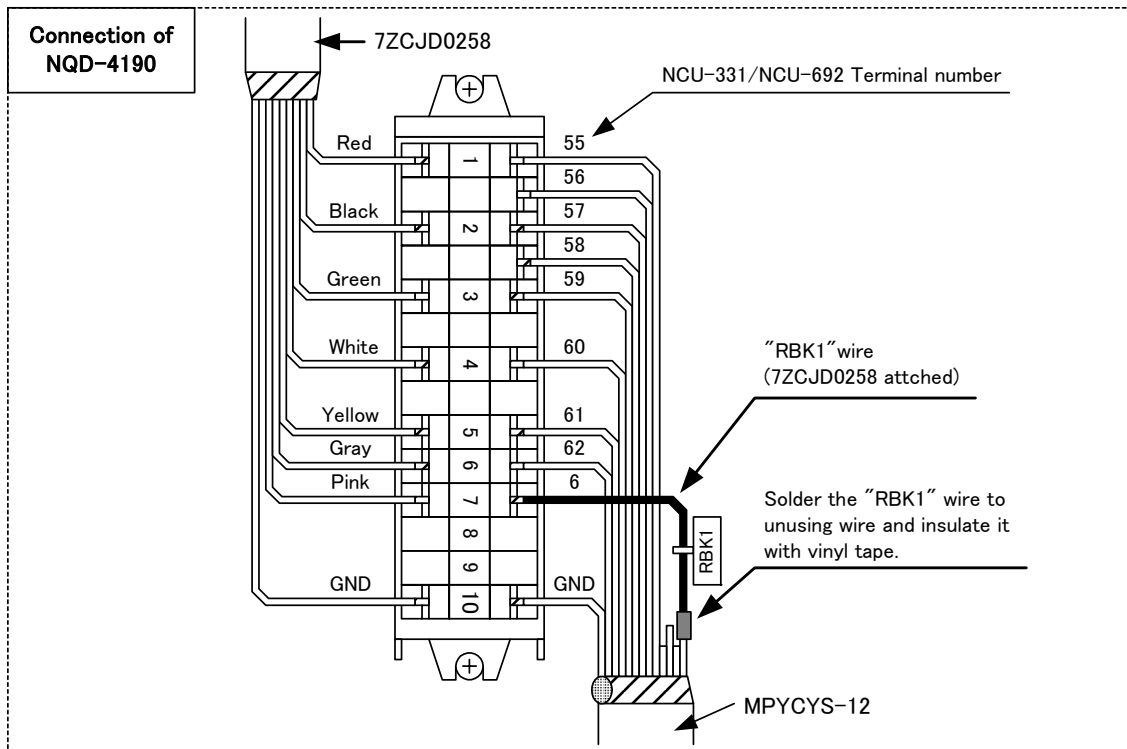
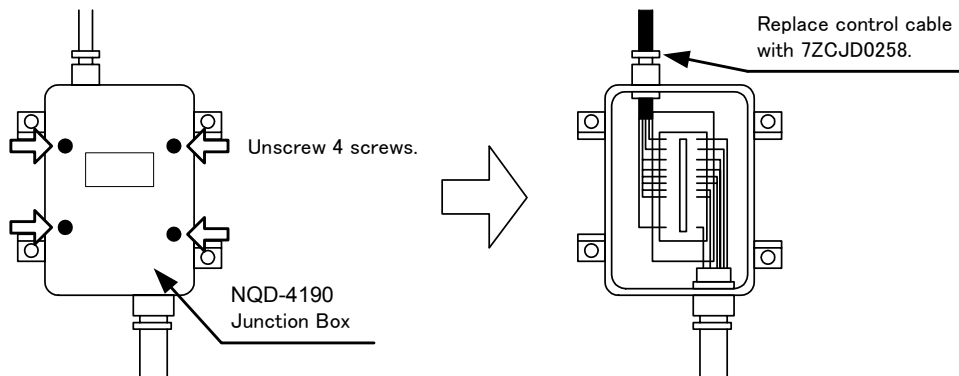
4. Connect the antenna wire, copper plate and RF cable disconnected in the paragraph 3.

5. Replace control cable between NFC-296 and NQD-4190 with 7ZCJD0258.

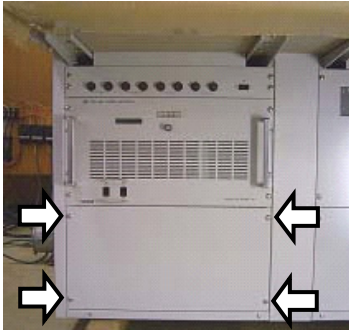
NFC-296 side



NQD-4190 side

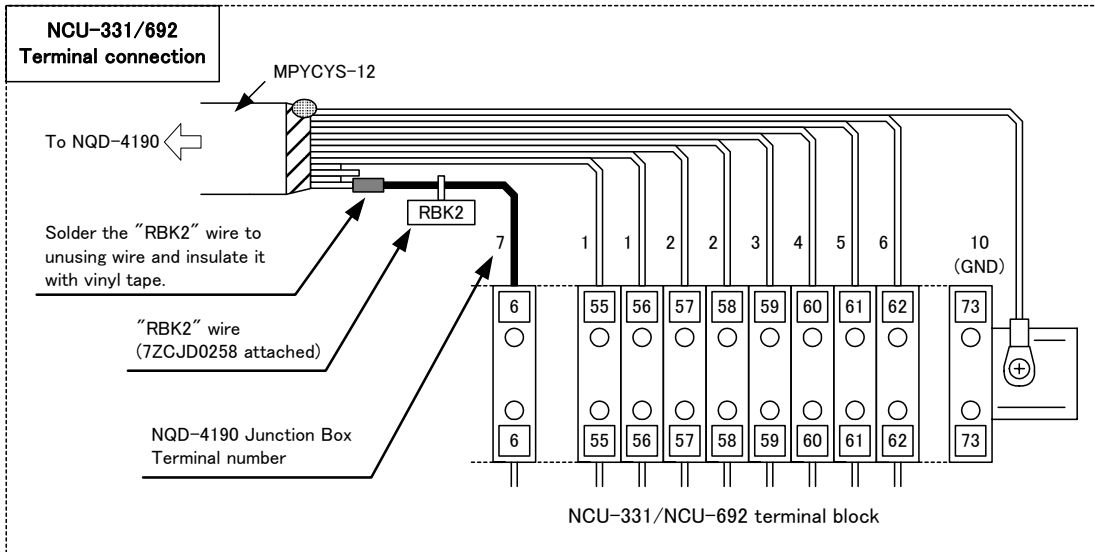


- Remove the front panel of NCU-331/692.

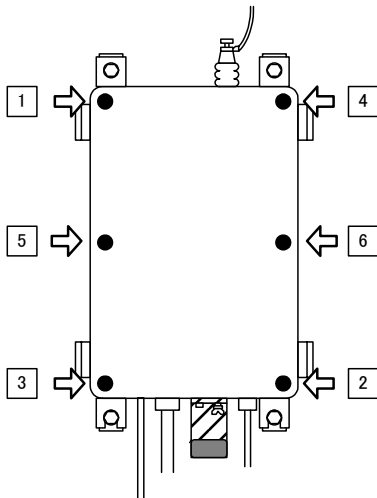


Unscrew 4 screws.

- Connect "RBK2" wire to NCU-331/692 terminal block No.6.



- Return the front panel of NCU-331/692.
- Return the upper cover of NQD-4190.
- Return the upper cover of NFC-296.



Note

- Confirm connections of cables and connector before returning the upper cover.
- Screw the upper cover in order of figure.
(The standard of tightening torque is 15 kgf·cm.)

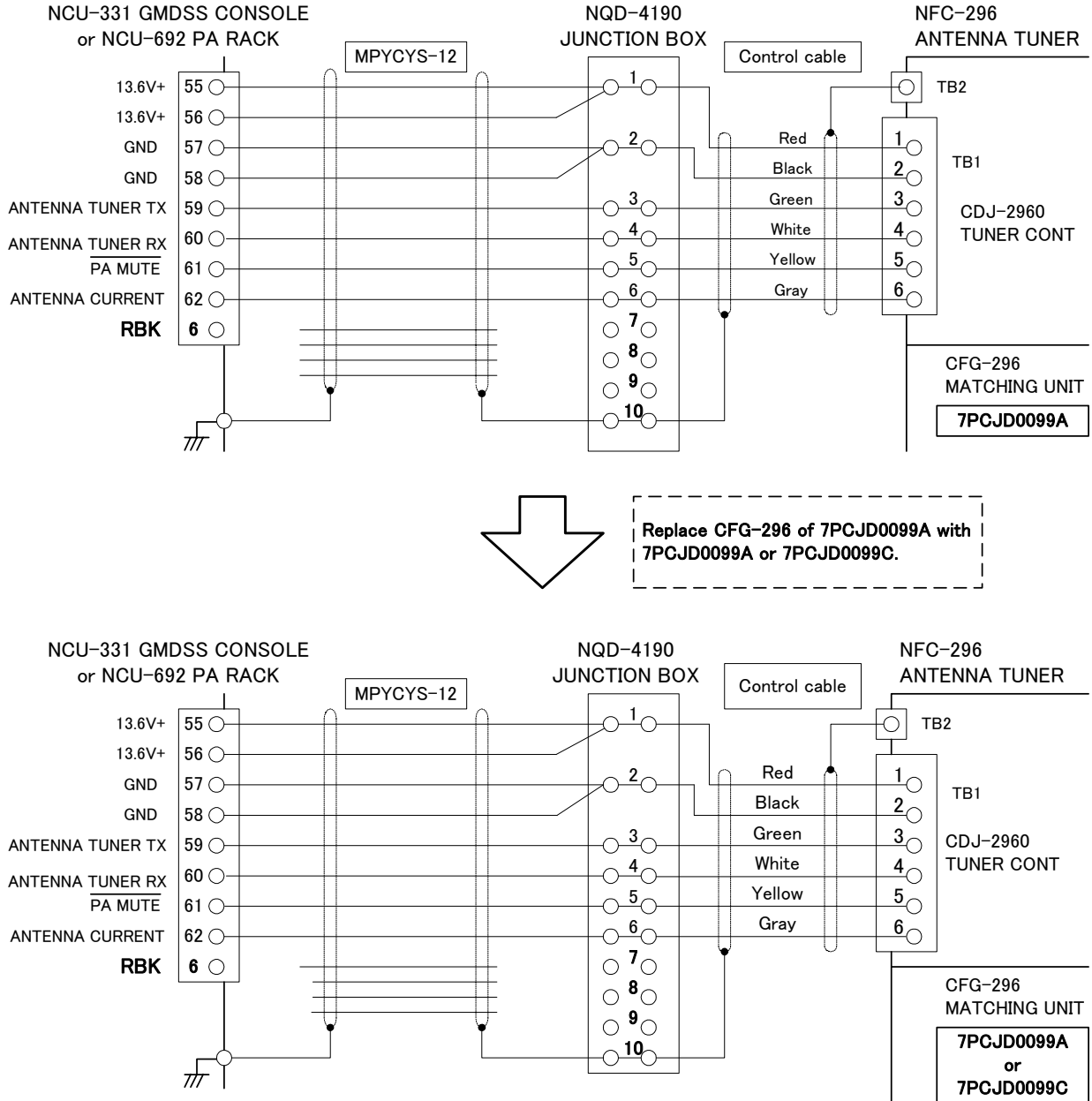
- Return the shade cover and earth wire.

Replacing the CFG-296 Matching Unit in the NFC-296 is finished.

CFG-296 replacement procedures B

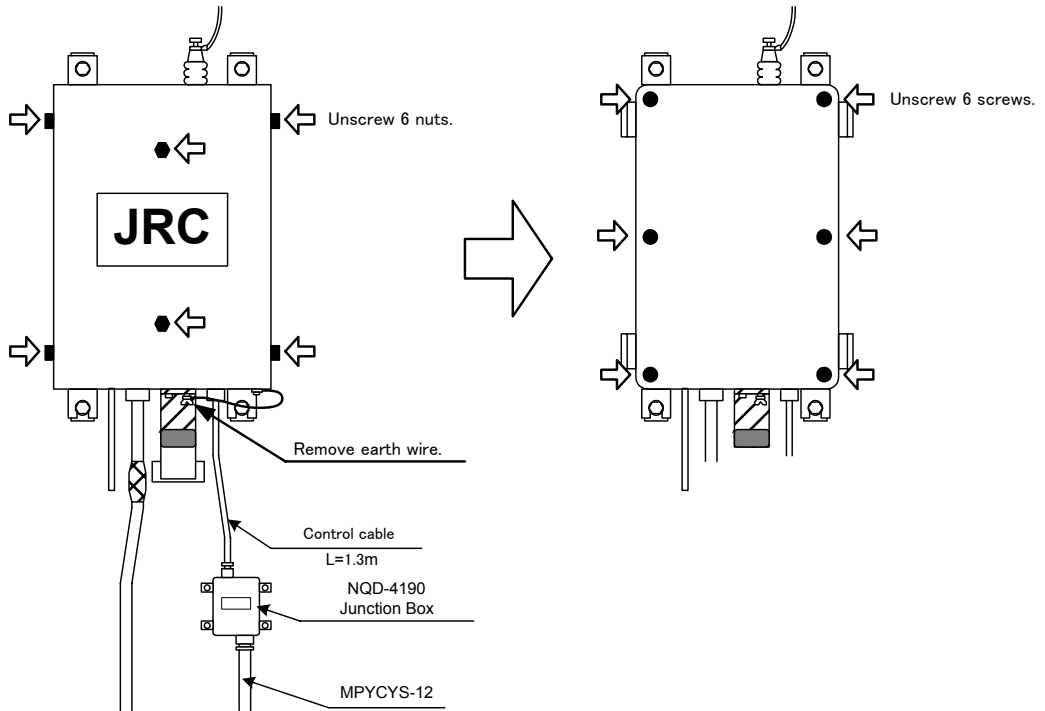
At ship which does not need to connect Tx antenna to the earth at standby condition, the replaceable PCB versions of CFG-296 are 7PCJD0099A and 7PCJD0099C. When replacing CFG-296 of 7PCJD0099A with 7PCJD0099A or 7PCJD0099C is needed, refer to this procedures.

Outline figure

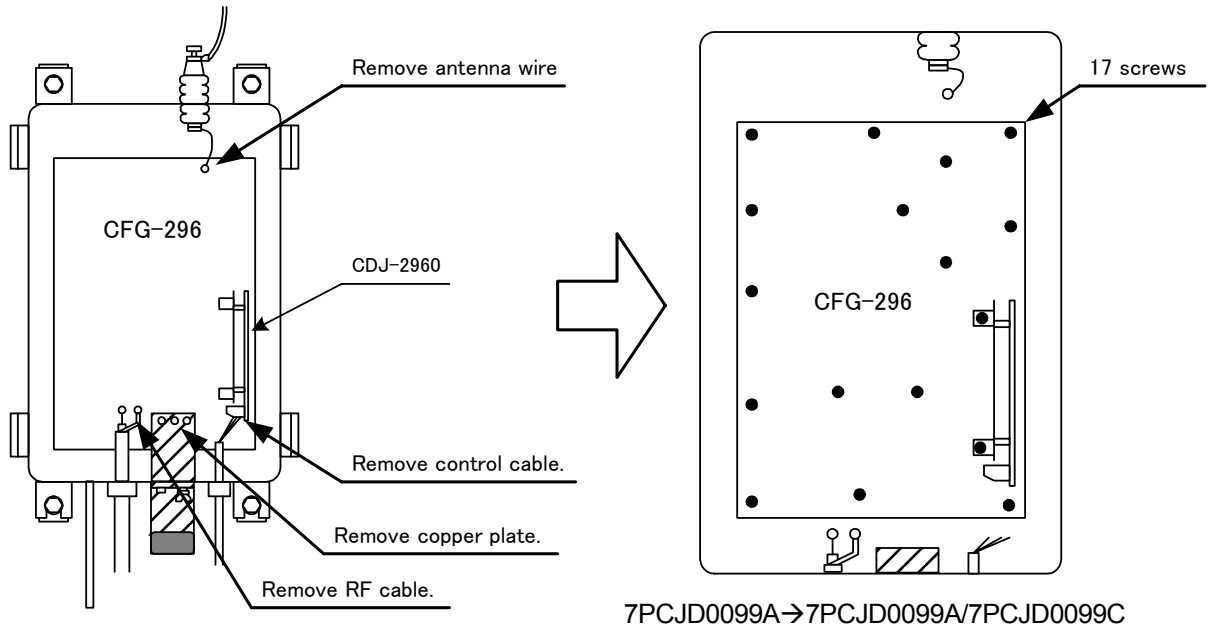


Procedure

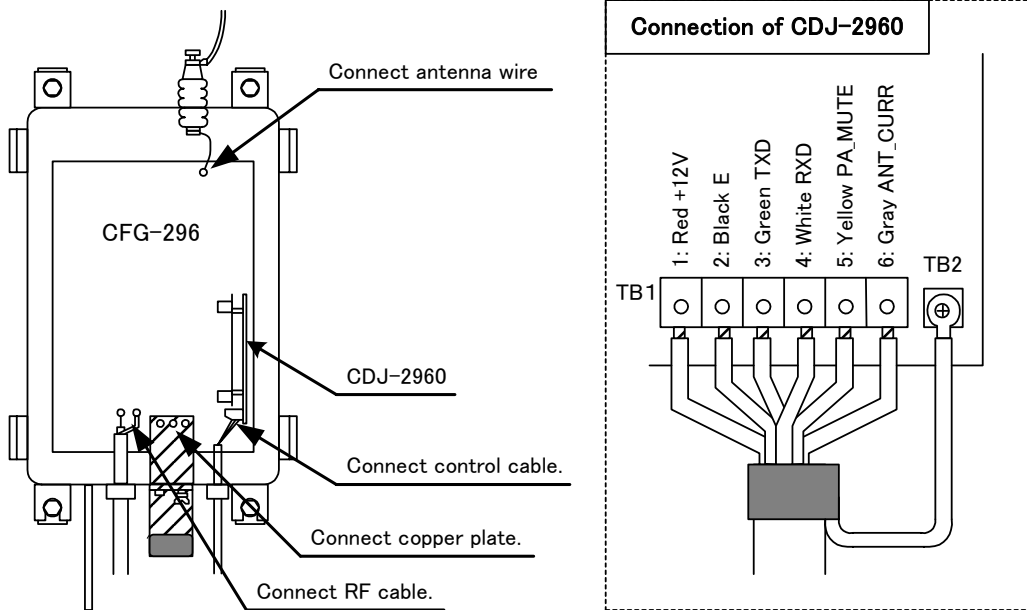
1. Turn off AC and DC switches of NAH-692/695/698.
2. Remove earth wire, shade cover and upper cover.



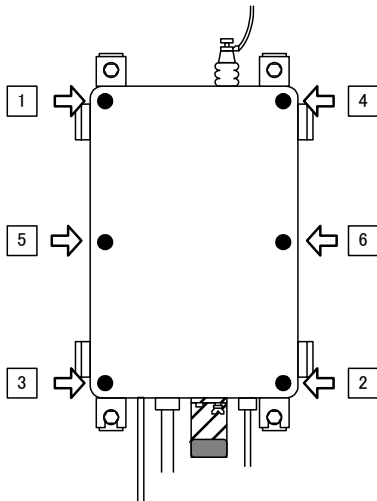
3. Replace CFG-296 of 7PCJD0099A with 7PCJD0099A or 7PCJD0099C.



4. Connect the control cable, antenna wire, copper plate and RF cable disconnected in the paragraph 3.



5. Return the upper cover of NFC-296.



Note

- (a) Confirm connections of cables and connector before returning the upper cover.
- (b) Screw the upper cover in order of figure.
(The standard of tightening torque is 15 kgf·cm.)

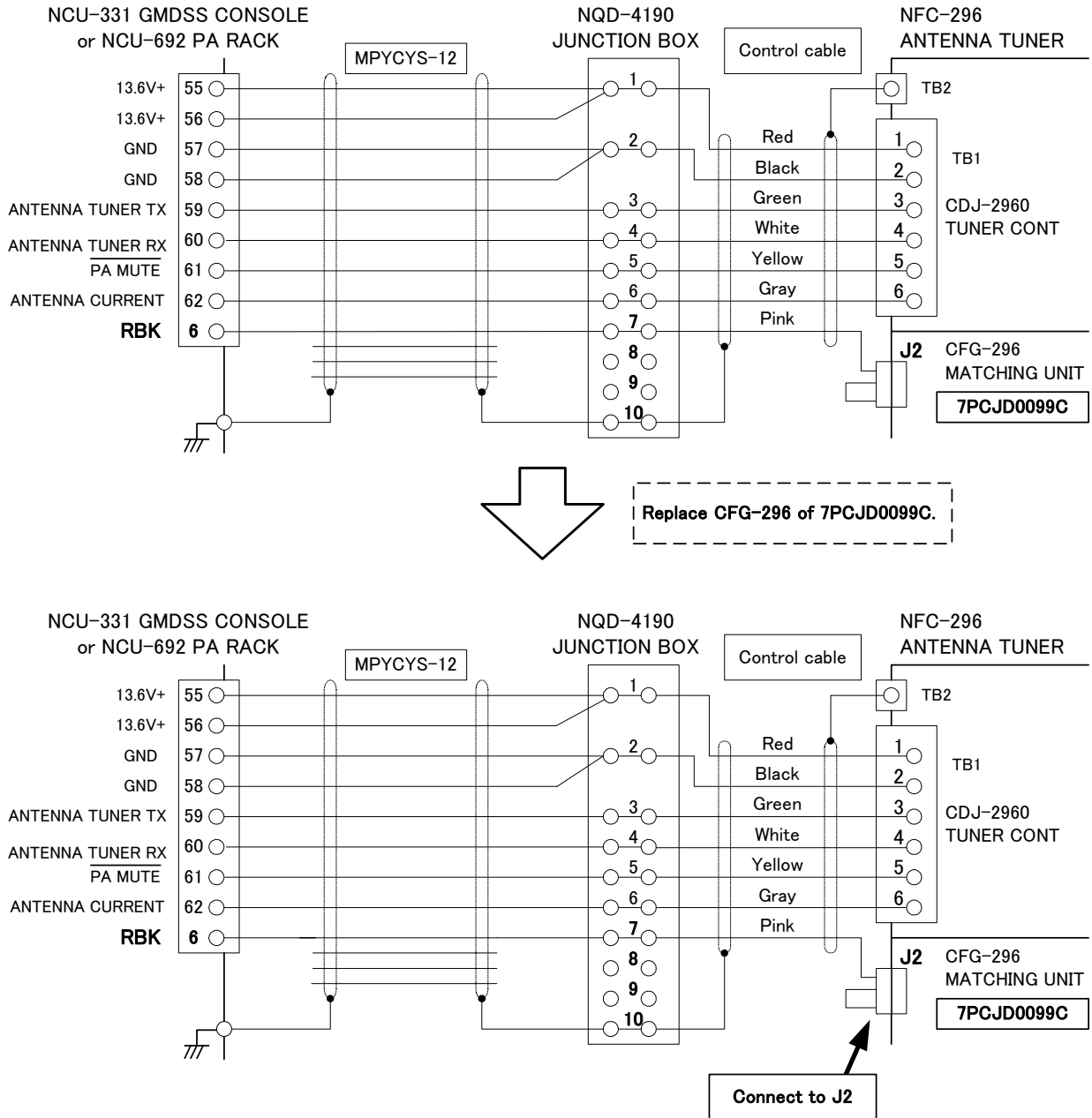
6. Return the shade cover and earth wire.

Replacing the CFG-296 Matching Unit in the NFC-296 is finished.

CFG-296 replacement procedures C

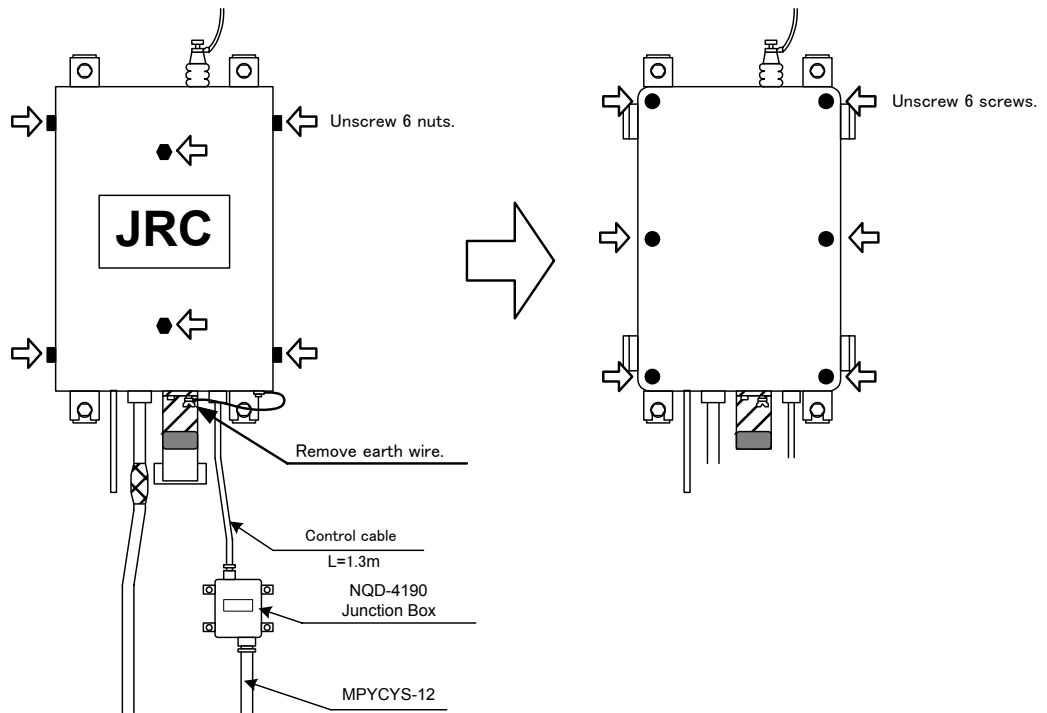
If PCB version of CFG-296 in NFC-296 is 7PCJD0099C, the replaceable PCB version of CFG-296 is 7PCJD0099C only. When replacing CFG-296 of 7PCJD0099C is needed, refer to this procedures.

Outline figure

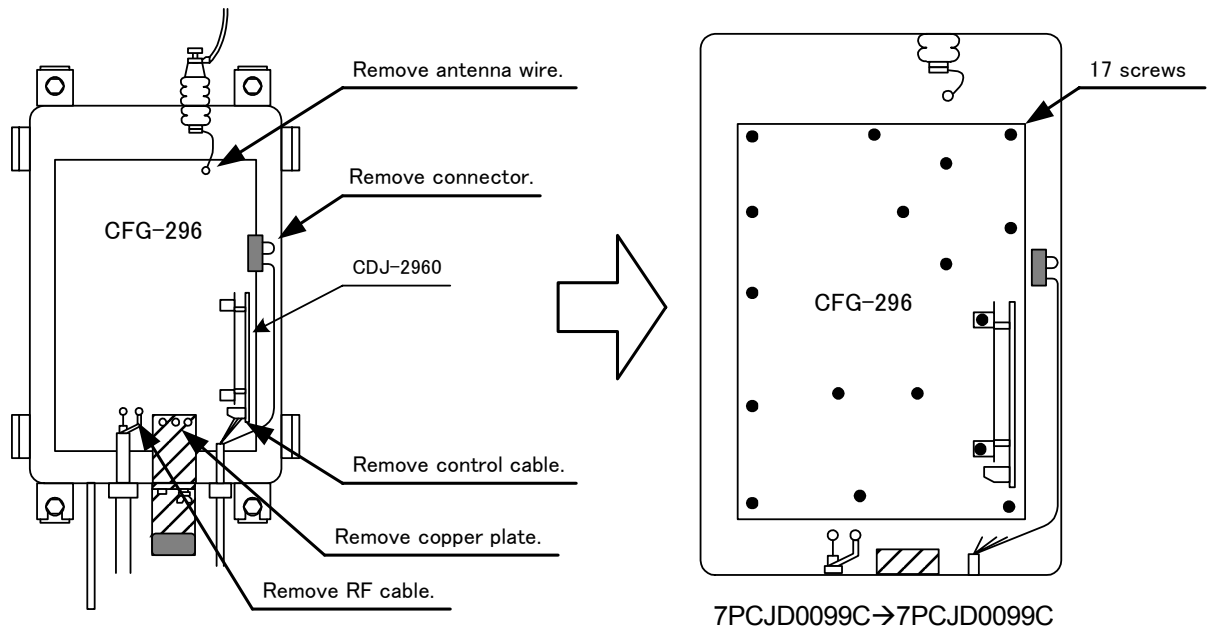


Procedure

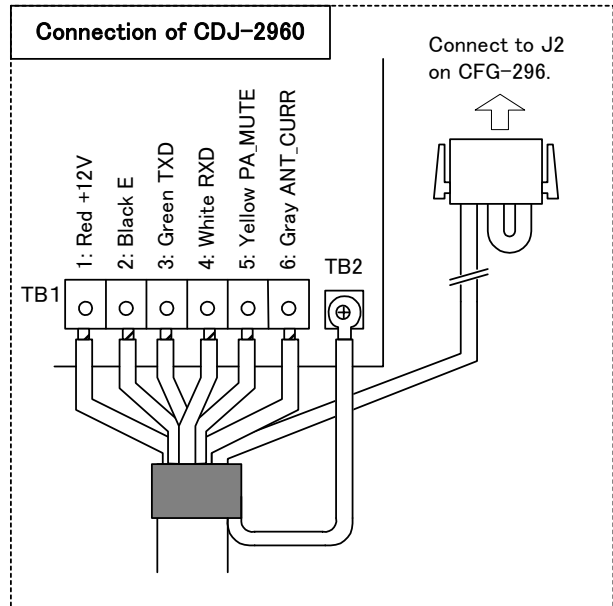
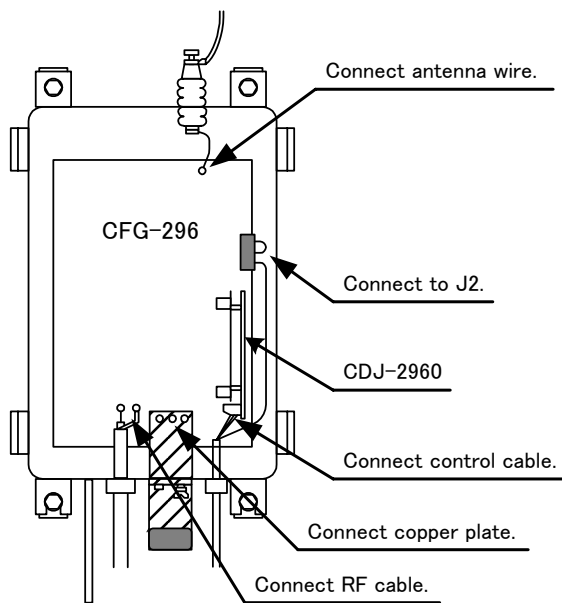
1. Turn off AC and DC switches of NAH-692/695/698.
2. Remove earth wire, shade cover and upper cover.



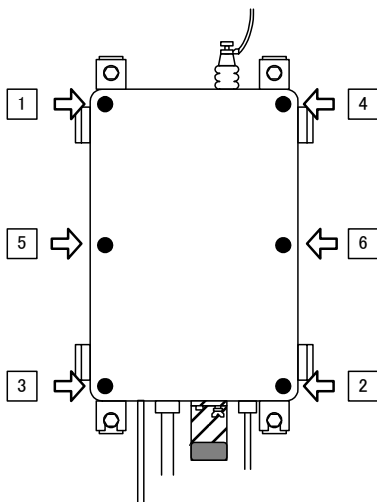
3. Replace CFG-296 of 7PCJD0099C.



4. Connect the control cable, antenna wire, copper plate and RF cable disconnected in the paragraph 3.



5. Return the upper cover of NFC-296.



Note

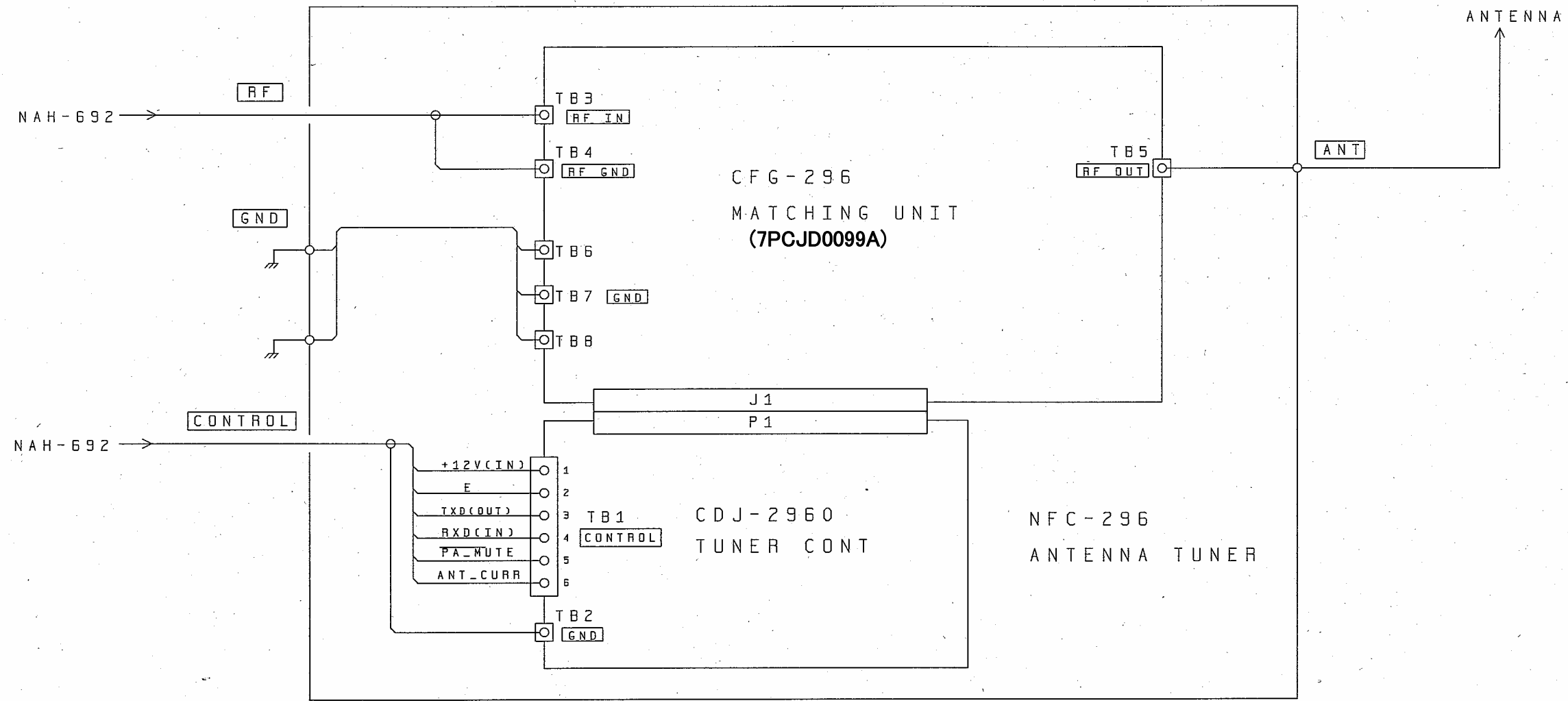
- (a) Confirm connections of cables and connector before returning the upper cover.
- (b) Screw the upper cover in order of figure.
(The standard of tightening torque is 15 kgf·cm.)

6. Return the shade cover and earth wire.

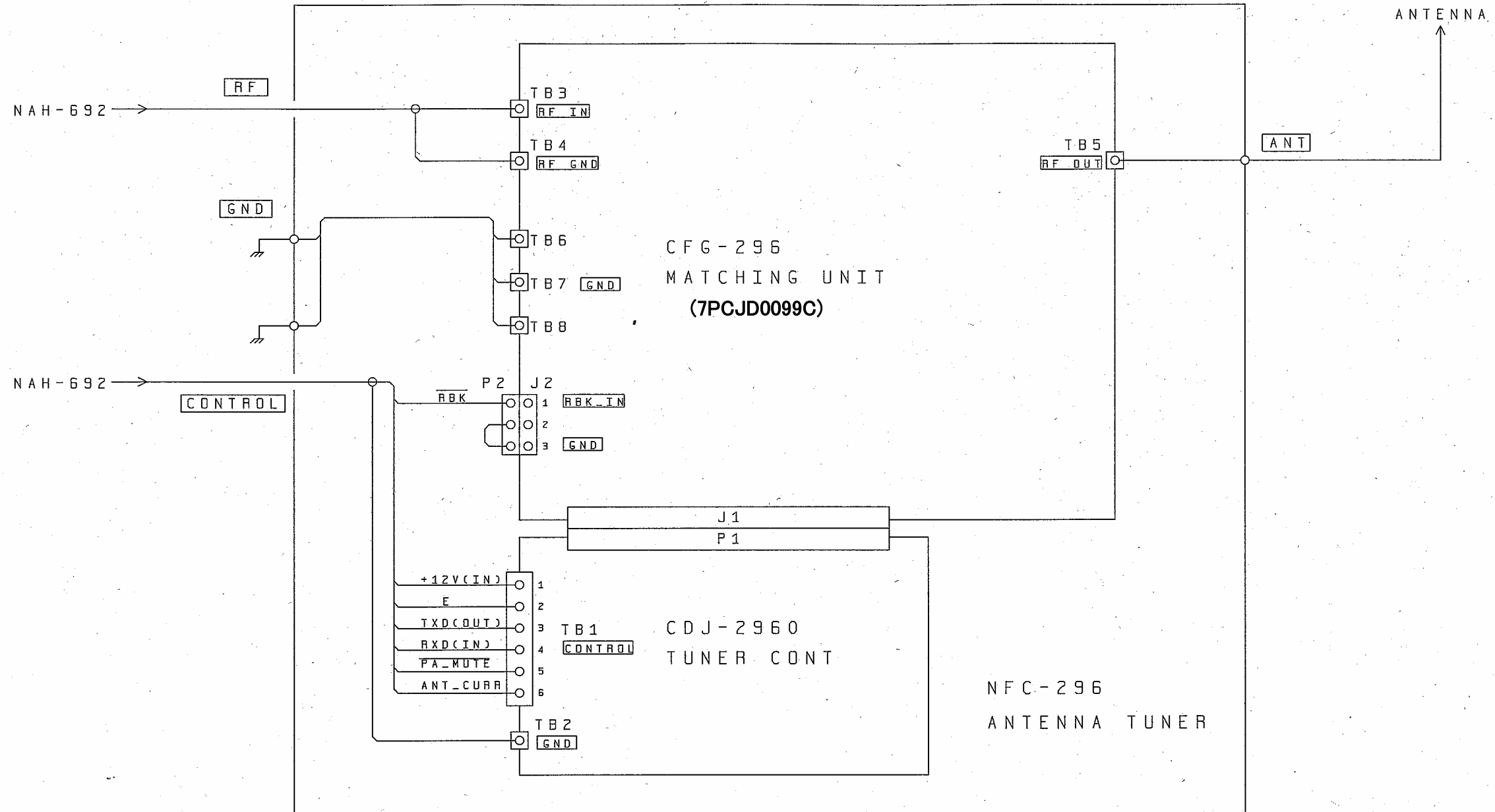
Replacing the CFG-296 Matching Unit in the NFC-296 is finished.

NFC-296 Antenna Tuner / CFG-296 Matching Unit circuit diagram

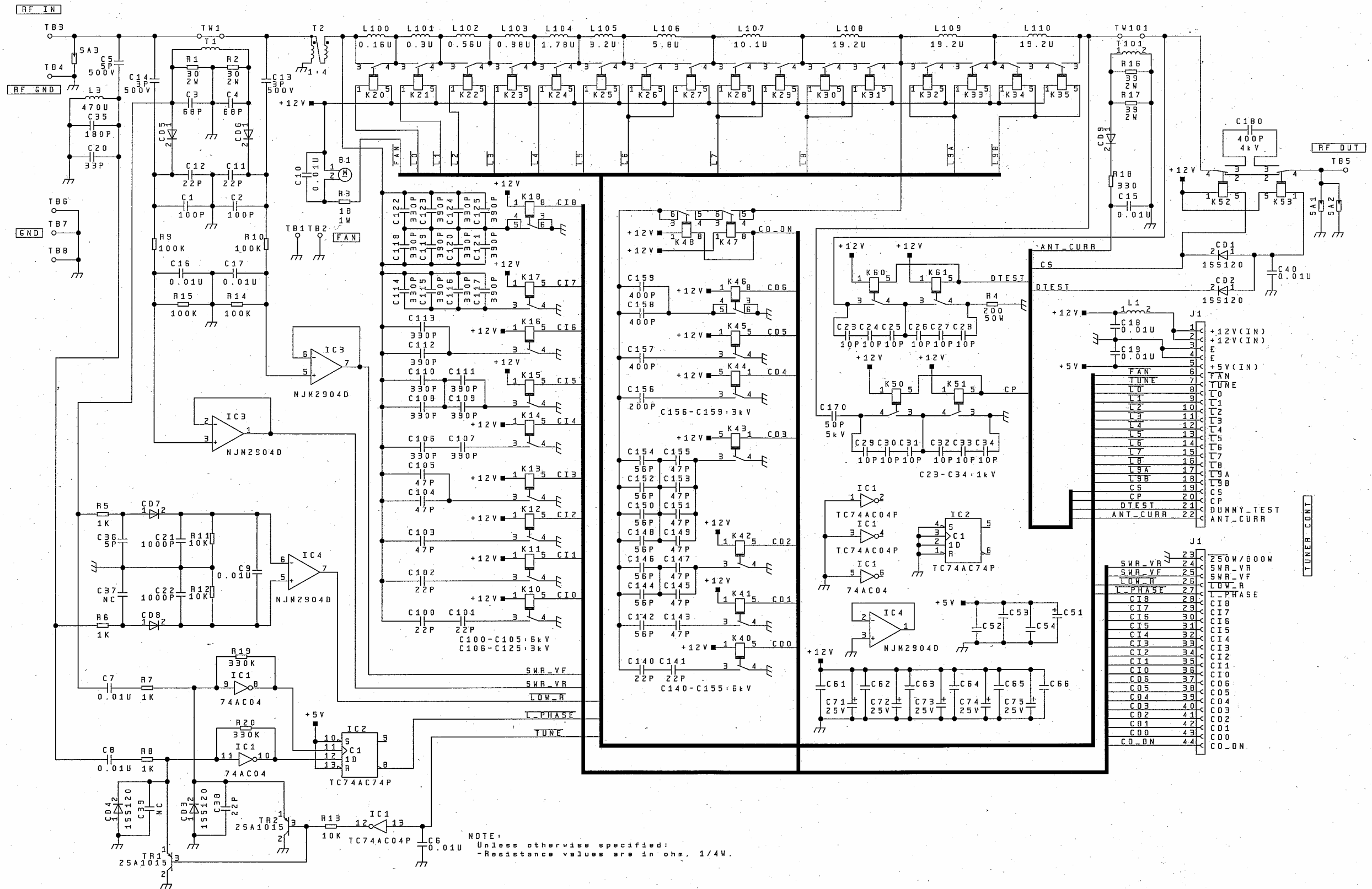
1. NFC-296 Antenna Tuner (PCB version of CFG-296 is 7PCJD0099A)



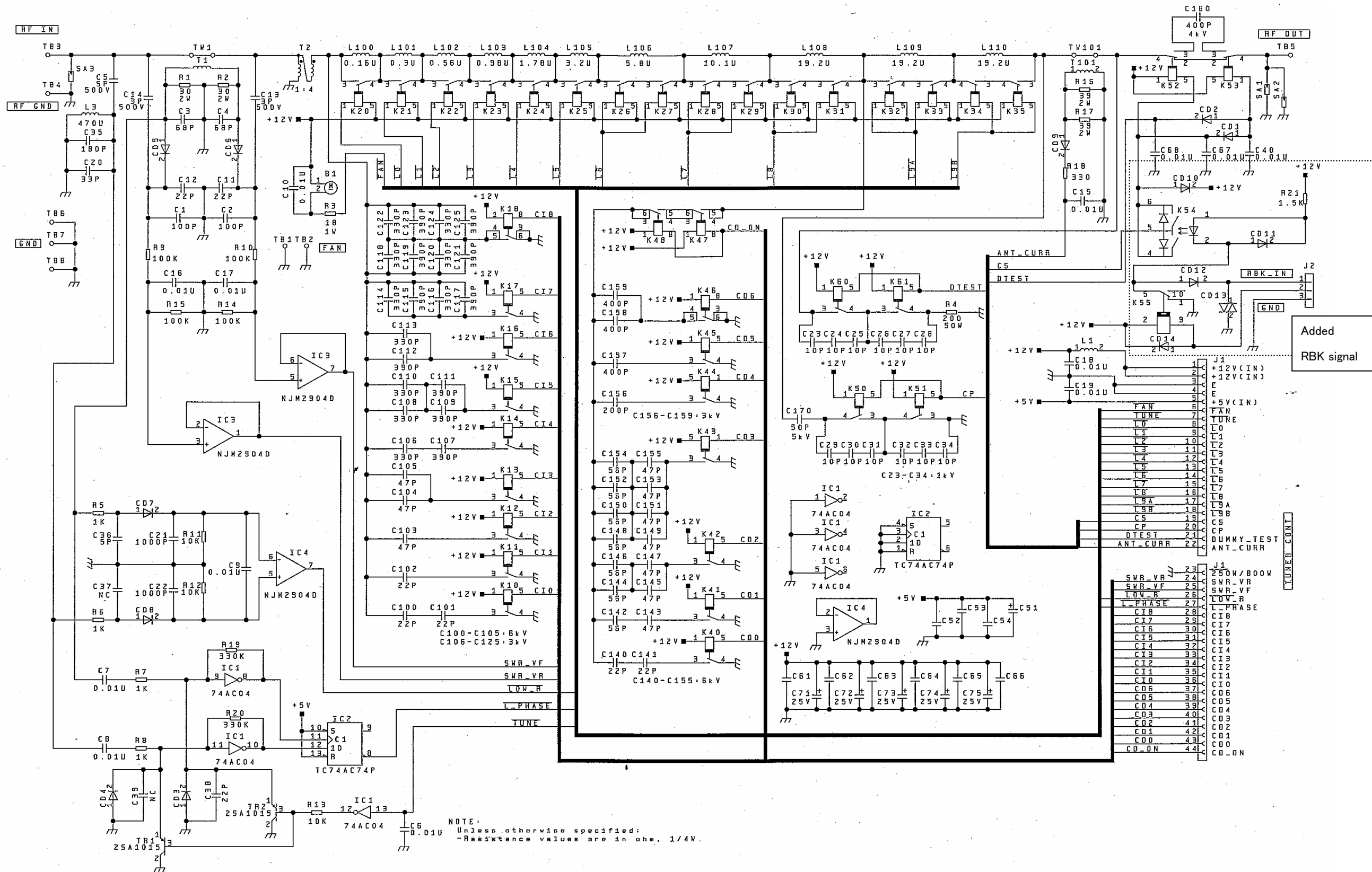
2. NFC-296 Antenna Tuner (PCB version of CFG-296 is 7PCJD0099C)



3. CFG-296 Matching Unit (PCB version is 7PCJD0099A)



4. CFG-296 Matching Unit (PCB version is 7PCJD0099C)



TECHNICAL INFORMATION
FROM
NETWORK AND COMMUNICATION GROUP

Subject : DC Breaker addition

Equipment : NCU-331E/F/G, NCU-692 (JSS-296/596/896)

Date : Jan 26, 2005

Issue Number : JD-1303-05

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