JVC

SCHEMATIC DIAGRAMS

DVD PLAYER

XV-N410B, XV-N412S

CD-ROM No.SML200407

Area Suffix (XV-N410B)

UJ ---------- U.S.A. Militaly

Area Suffix (XV-N412S)

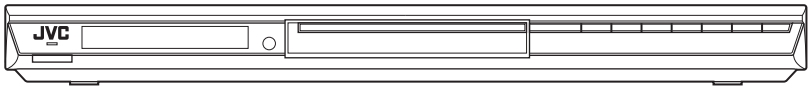
UW ----- Brazil,Mexico,Peru
US ---------- Singapore
UG - Turkey,South Africa,Egypt
UX ---------- Saudi Arabia
UF ---------- China
UT ---------- Taiwan
UB ---------- Hong Kong
A ---------- Australia

Except ver.UJ

MPEG Multichannel VIDEO CD

DVD VIDEO DOLBY DIGITAL 3D-PHONIC dts 2.0+DIGITAL OUT COMPACT disc SUPER VIDEO

AV COMPU LINK Digital Direct Progressive Scan



XV-N410BUJC, XV-N412SUWC, XV-N412SUSC, XV-N412SUGC, XV-N412SUXC, XV-N412SUFC, XV-N412SUTC, XV-N412SUBC, XV-N412SAC

This service manual is a service manual of a model in which destination is added to the issued service manual XV-N410B, XV-N412S (issue number: XA018 2004/3). This service manual consists of only "Parts List," "Standard Schematic Diagrams," "Printed Circuit Boards," "Block Diagram," and "Instruction Book." Regarding service information other than these sections, refer to the service manual XV-N410B, XV-N412S (issue number: XA018 2004/3).

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No.YD020SCH
2004/7

CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

Safety precautions
The Components indentified by the symbol ⚠ are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

1. Units of components on the schematic diagram

Unless otherwise specified.

1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K: KΩ(1000Ω), M: MΩ (1000KΩ)
2) All capacitance values are in μF, (P: PF).
3) All inductance values are in μH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

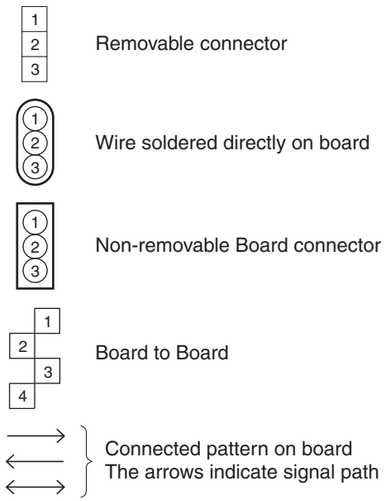
Note: The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

2. Indications of control voltage

AUX : Active at high.

$\overline{\text{AUX}}$ or AUX(L) : Active at low.

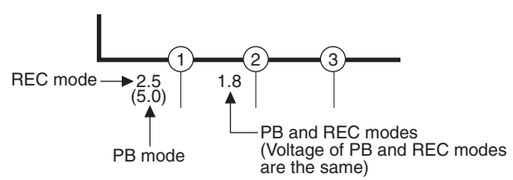
3. Interpreting Connector indications



Note: For the destination of each signal and further line connections that are cut off from the diagram, refer to "BOARD INTERCONNECTIONS"

4. Voltage measurement

1) Regulator (DC/DC CONV) circuits
   REC : Colour bar signal.
   PB : Alignment tape (Colour bar).
   — : Unmeasurable or unnecessary to measure.
2) Indication on schematic diagram
   Voltage indications for REC and PB mode on the schematic diagram are as shown below.



Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

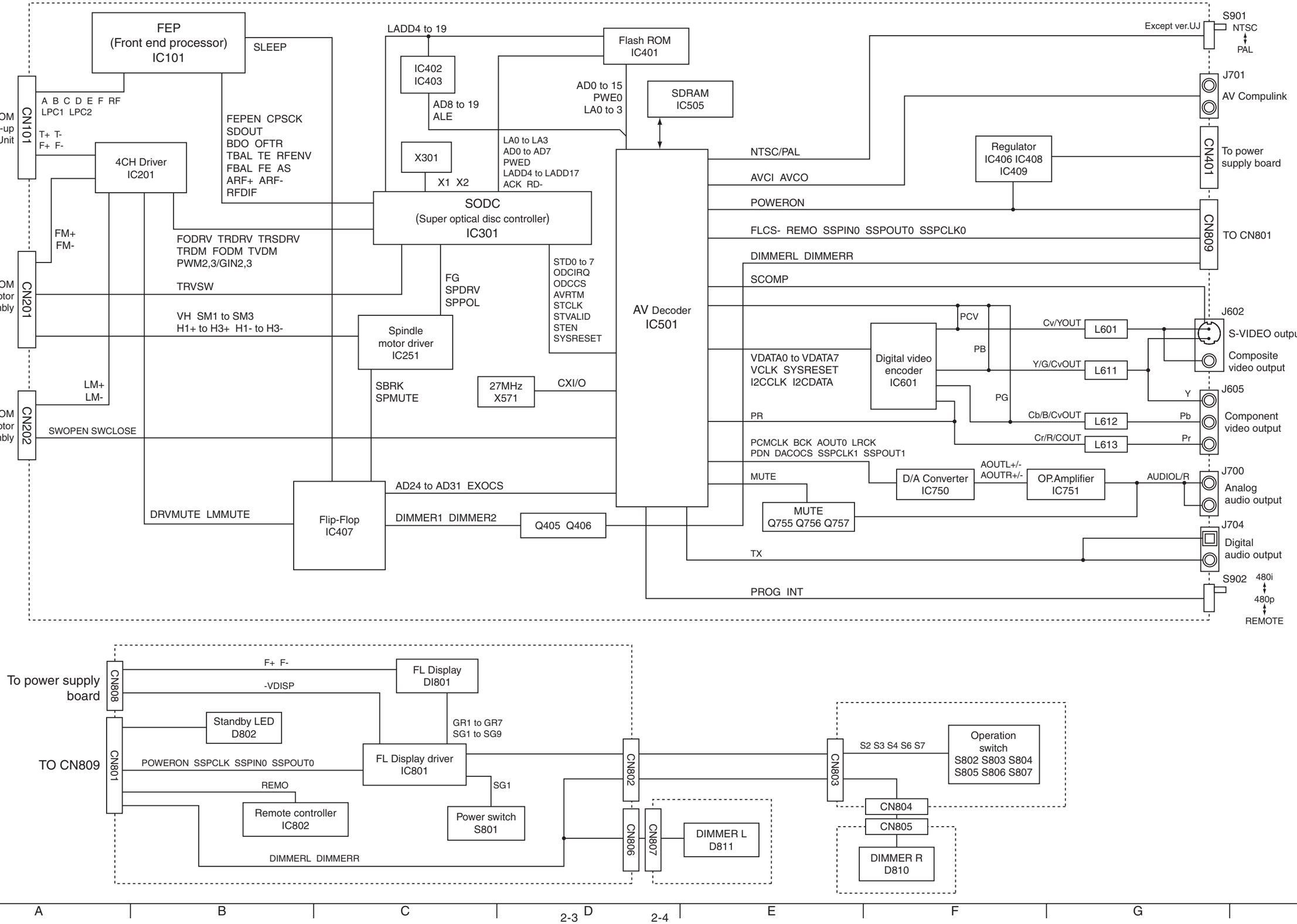
6. Indication of the parts for adjustments

The parts for the adjustments are surrounded with the circle as shown below.

7. Indication of the parts not mounted on the circuit board

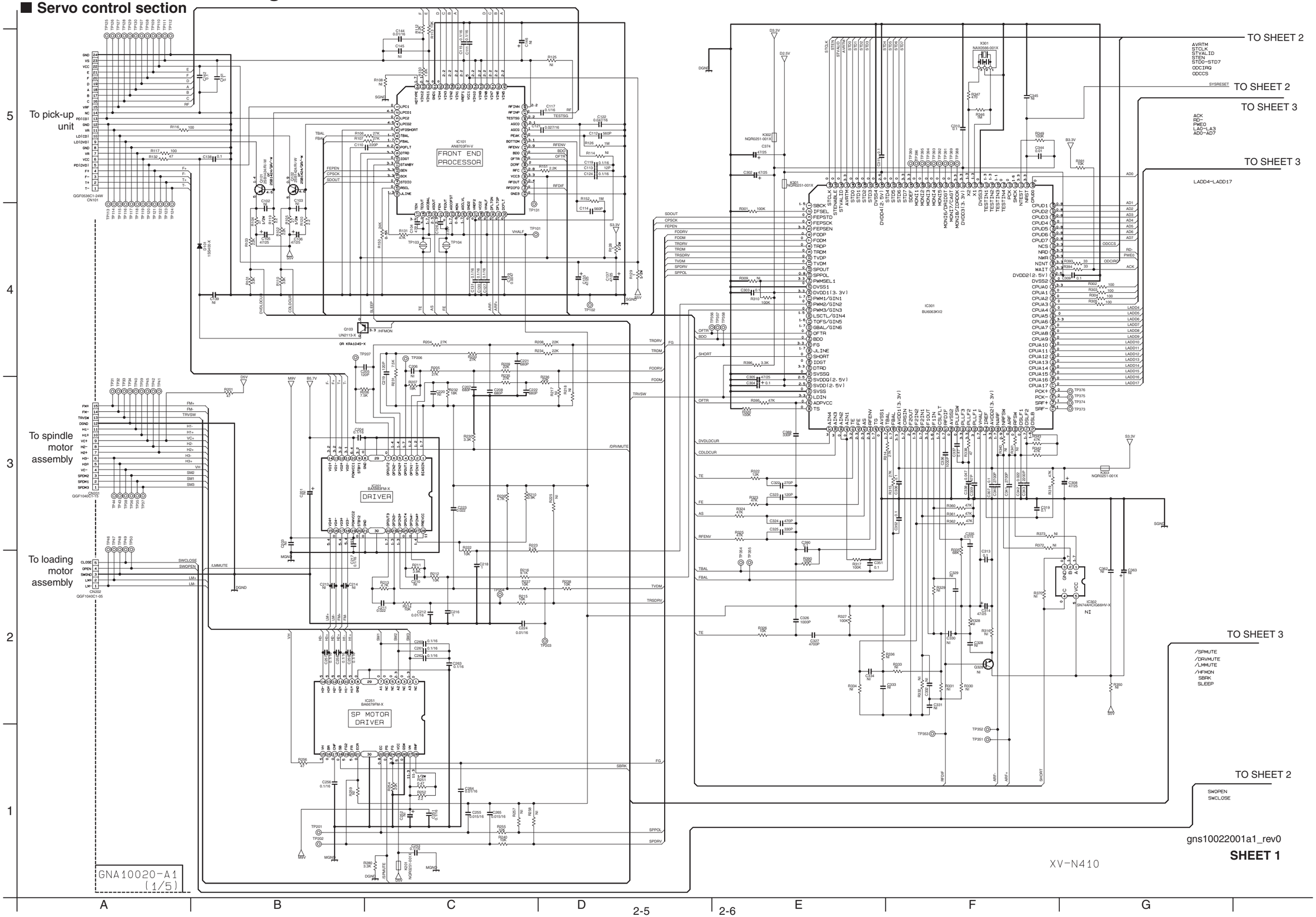
"OPEN" is indicated by the parts not mounted on the circuit board.

Block diagram



Standard schematic diagrams

■ Servo control section



■ AV Decoder section

TO SHEET 1

AVRTM
STCLK
STVALID
STEN
STDO-STD7
ODCIRQ
ODCCS

TO SHEET 4
TO SHEET 1
TO SHEET 3

AVCO
AVCI
SWOPEN
SWCLOSE
I2CDATA
INT
POWERON
SWCLOSE
AVCI
AVCO
EXOCS
SCOMP
SRST
ODCCS
CPURST
I2CCLK
XI06

TO SHEET 3

PCS0
LHLD
LHLDA
LA0–LA3
ALE
RD–
ACK
SCLK
PWE0–PWE3
AD0–AD31

IC505
HY57V642020CTP-S
or
K4S643232E-TC70
K4S643232E-TC60
W986432DH-7

IC501
NDV8801VWA-BE

IC502
S-80927CLMC-W

IC511
LM1117MP1.8-X

TO SHEET 4
TO SHEET 1
TO SHEET 4
TO SHEET 4
TO SHEET 3
TO SHEET 5

PR
PB
PG
PCV
RXD0
SRST
FLCS–
REMO
SSPIN0
SSPOUT0
SSPCLK0
PCMCLK
AMUTE
BCK
LRCK
AOUT0
SSPOUT1
SSPCLK1
TX
DACOCS
PDN
V_CNT
NTSC/PAL
INT
PROG
SCOMP
I2CCLK
I2CDATA
VDATA0–VDATA7
VCLK
SYSRESET
S1OUT
V3.3V
SYSRESET

27MHz

gns10022001a2_rev0

GNA10020-A1 (2/5)

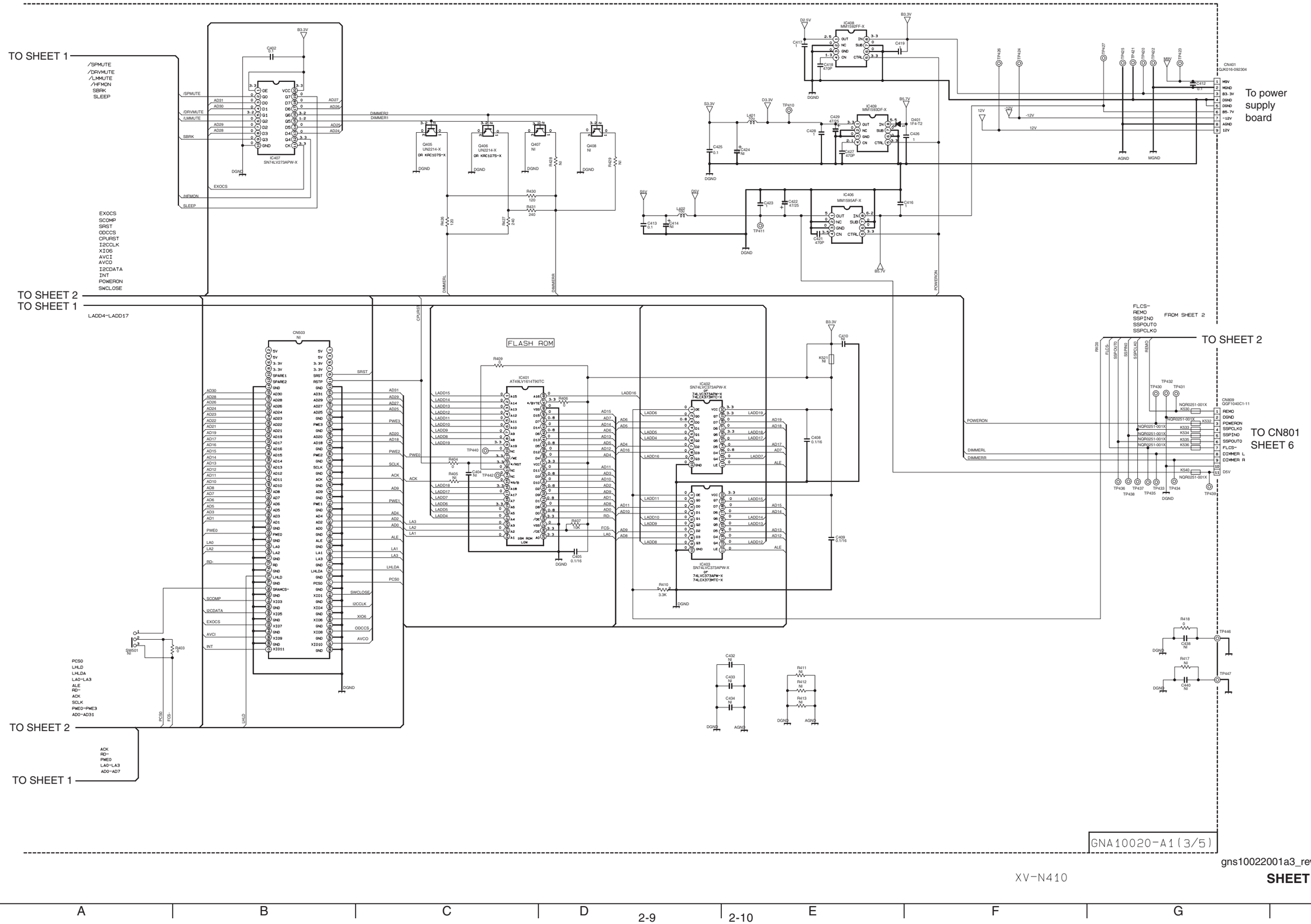
XV-N410

SHEET 2

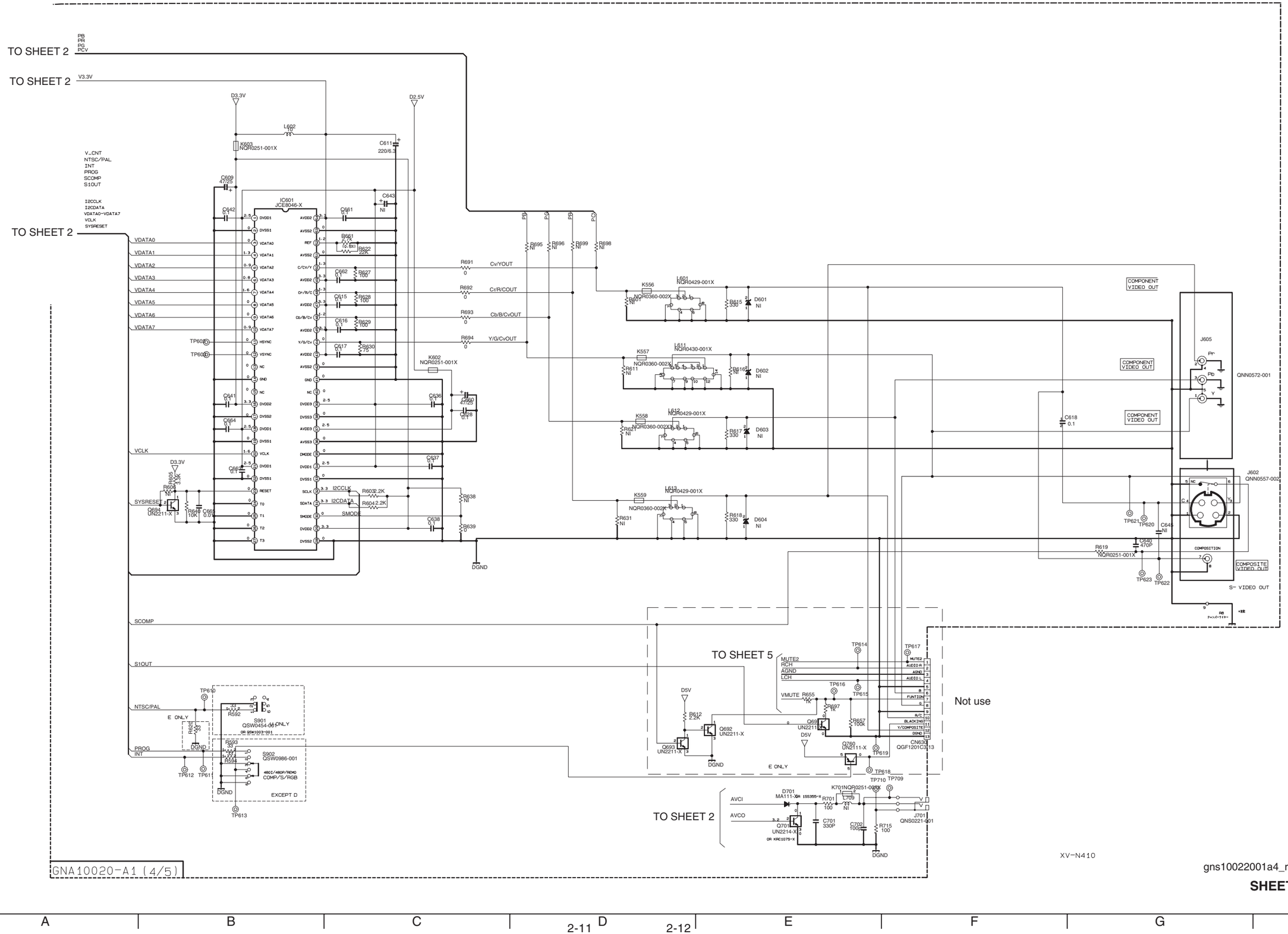
A | B | C | D | E | F | G

2-7 2-8

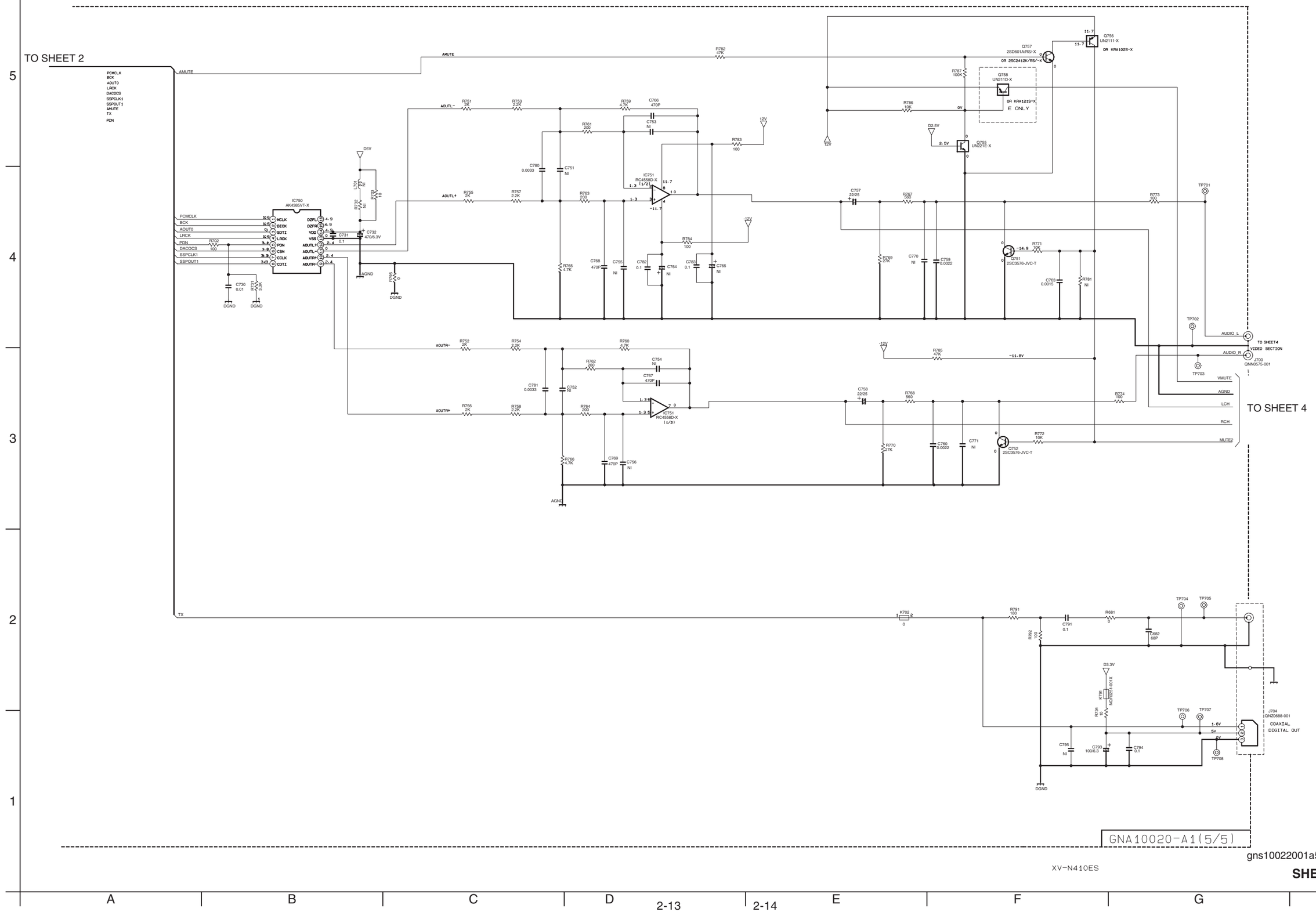
■ FLASH-ROM section



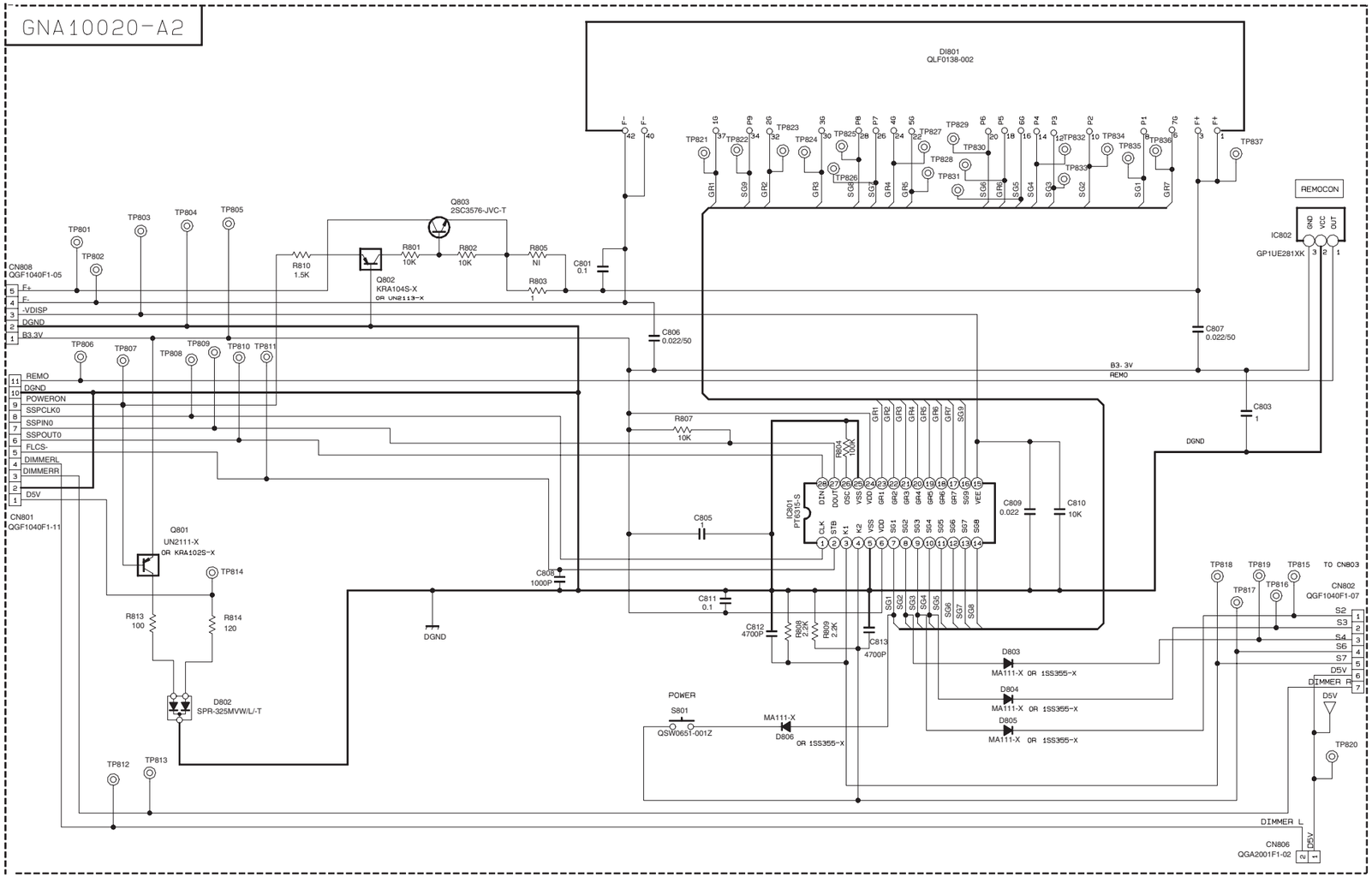
■ Video signal output terminal section

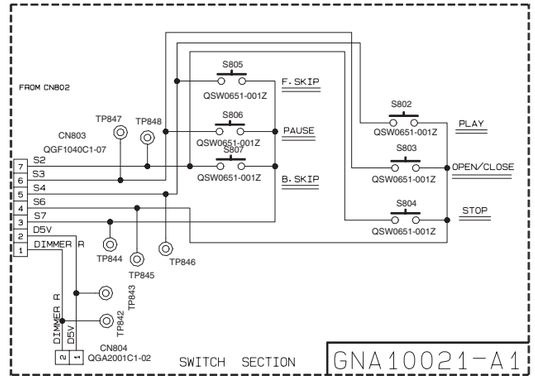


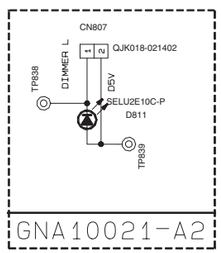
■ Audio signal output terminal section

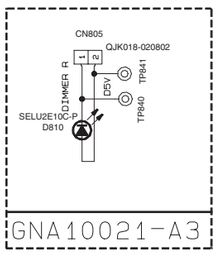


■ FL Display and operation switch section







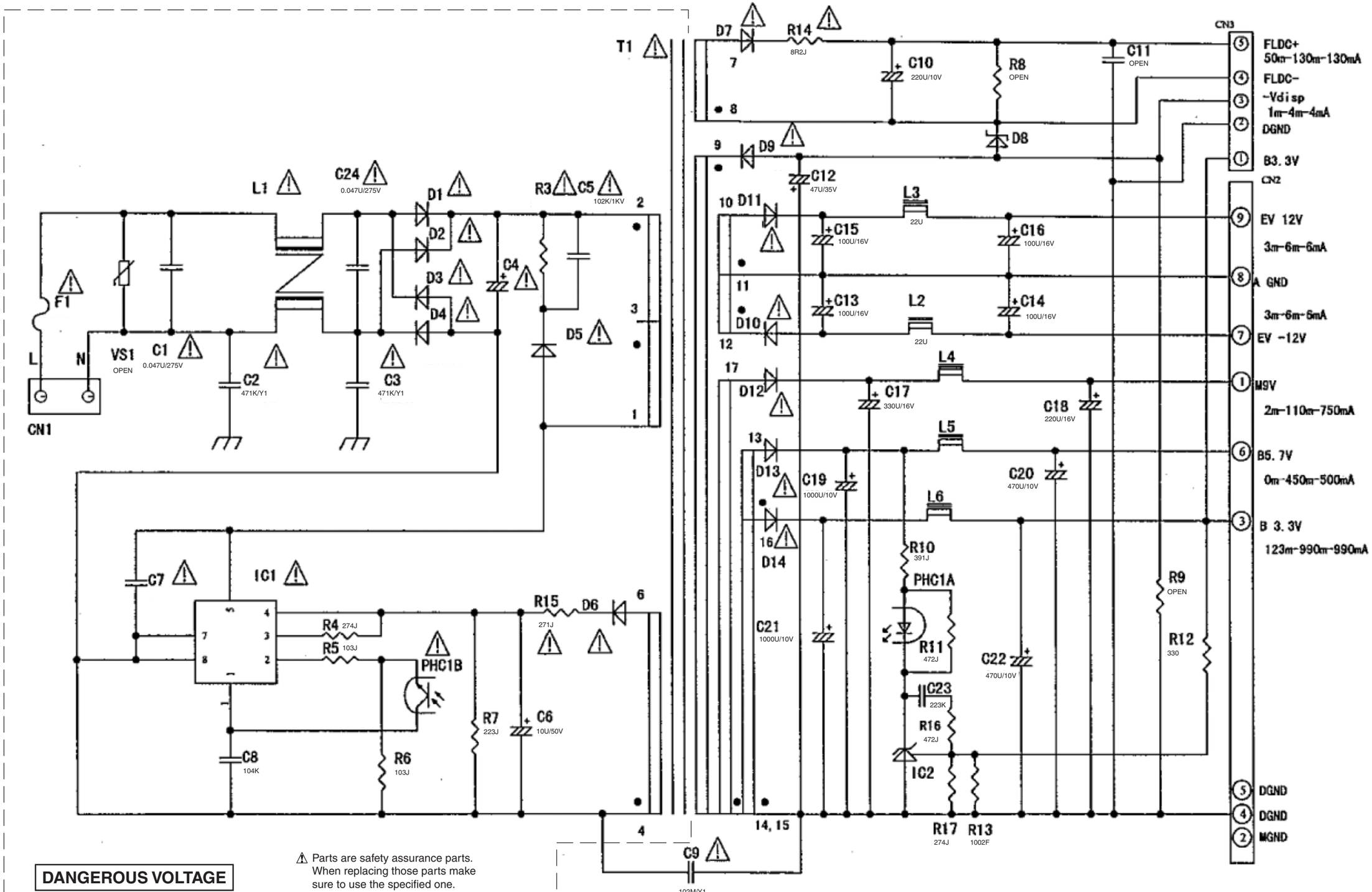


XV-N410

gns10022001a6_rev0

SHEET 6

■ Power supply section <03> QAL0582-001



DANGEROUS VOLTAGE

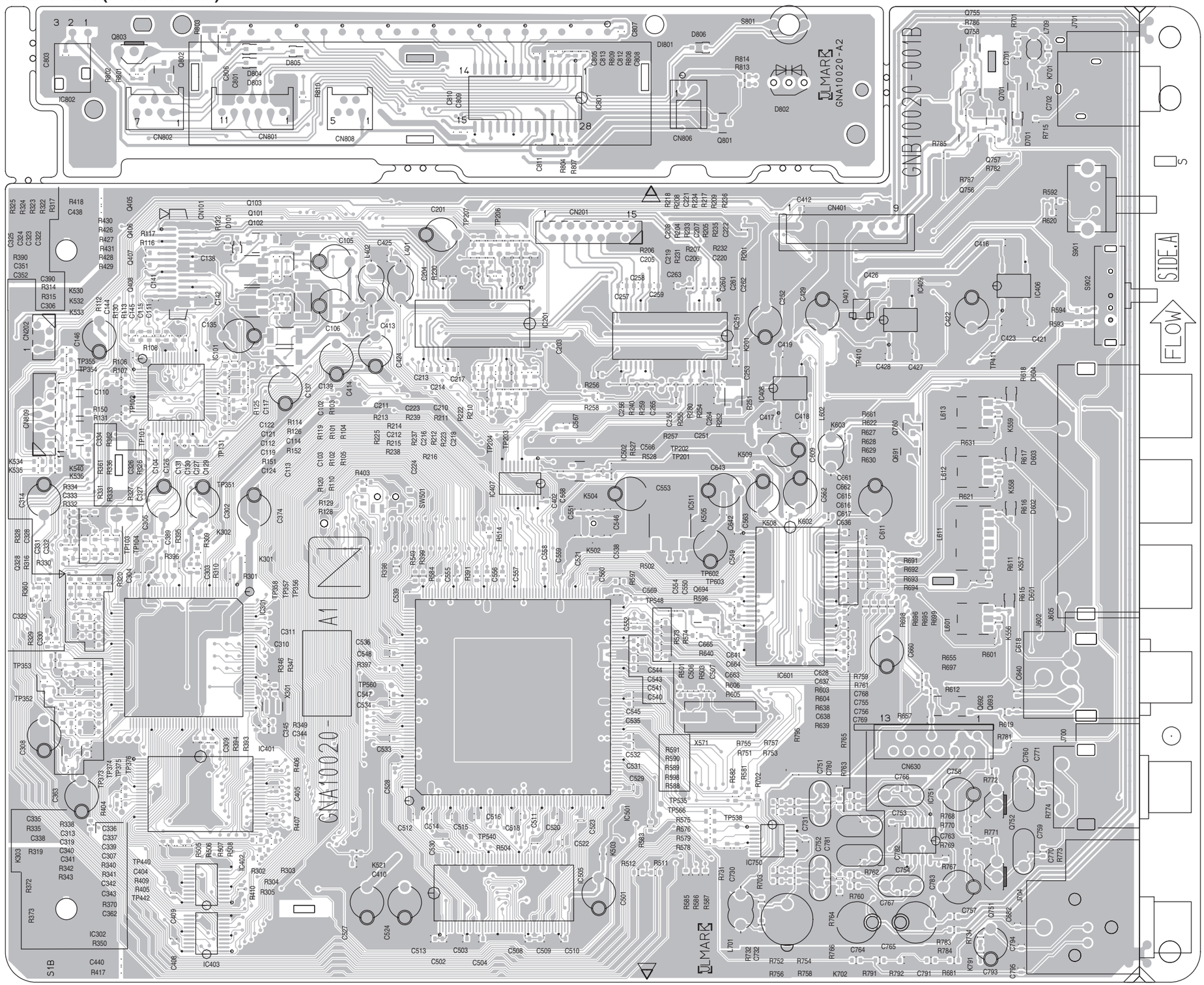
⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

4C-M5-30005_rev0

SHEET 7

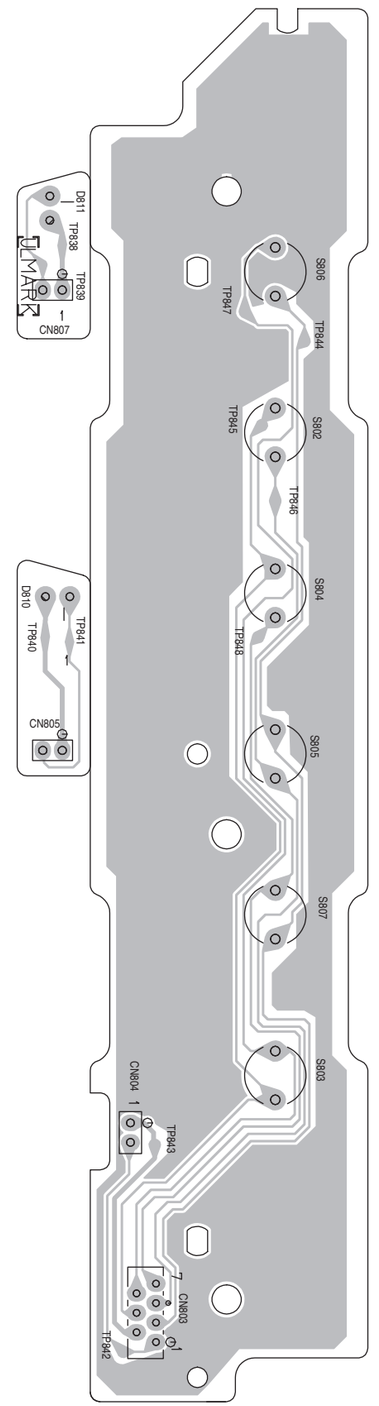
Printed circuit boards

■ Main board (Forward side) <01> GNB10020-001B

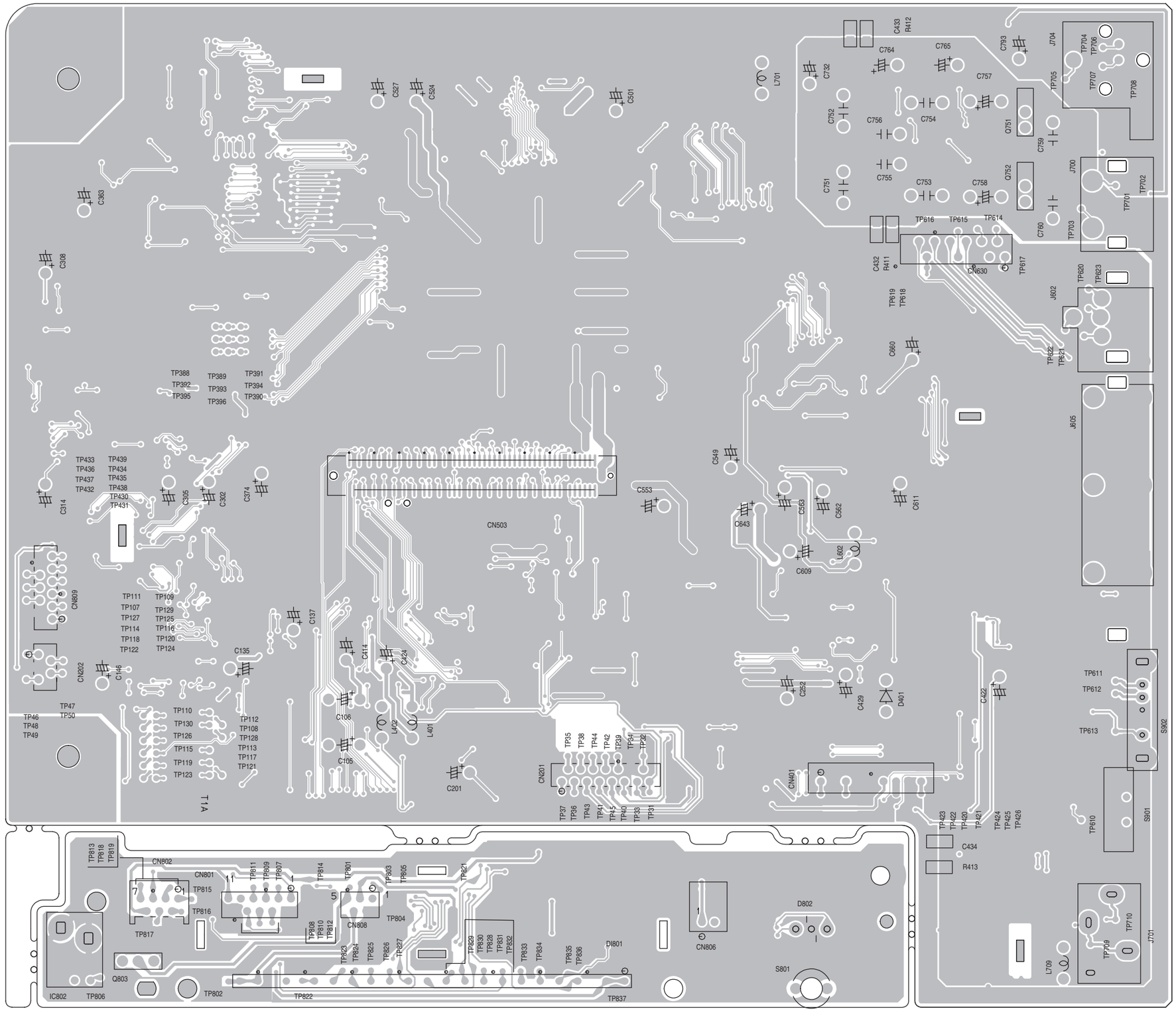


■ Operation switch board

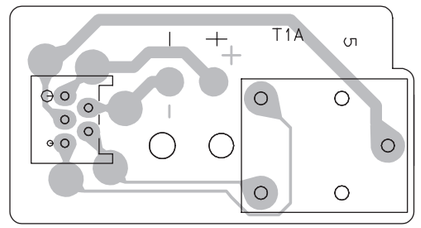
<02> GNB10021-001A



■ Main board (Reverse side) <01> GNB10020-001B



■ Switch board <04> LEB10070-001A



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