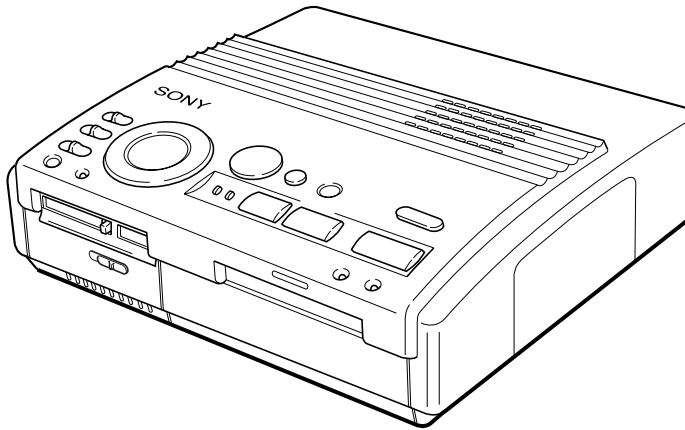


DPP-MS300

SERVICE MANUAL

*US Model
Canadian Model*



SPECIFICATIONS

Printing system
Sublimation dye transfer printing
(Yellow/Magenta/Cyan 3 pass)

Effective pixels
1,376 (H) x 1,024 (V) dot

Printing size
114 (H) x 5 (V) mm (maximum)
(4 1/2 x 3 3/8 inches)

Gradations
256 levels (8 bits), per color (24 bits)
Approx. 16,770,000 colors

Printing time
Approx. 100 seconds per sheet
(excluding the time for data processing and data transferring from the video equipment or "Memory Stick" or PC card)

Input/output connectors
VIDEO INPUT connector
(phono jack x 1)
1 Vp-p, 75 ohms (unbalanced), sync negative
S VIDEO INPUT connector
(4-pin mini-DIN x 1)
Y: 1 Vp-p, 75 ohms (unbalanced), sync negative
C: 0.286 Vp-p (color burst), 75 ohms (unbalanced)
VIDEO OUTPUT connector
(phono jack x 1)
1 Vp-p, 75 ohms (unbalanced), sync negative
Parallel Interface (Centronics, Anfenole full 36-pin x 1)
"Memory Stick" insertion slot (1)/
PC card insertion slot (1)

Writing size into the "Memory Stick" or PC card (When writing video pictures)
640 (H) x 480 (V) (JPEG)

Compatible image file formats
JPEG • 4:4:4, 4:4:2, 4:2:0 (baseline JPEG)
• File size of 1Mbyte or smaller
BMP • 24 bit full color
• Windows format
• File size of 1Mbyte or smaller
(Note that some versions of the file formats may not be compatible.)

Maximum number of files to be handled
256 files

Print cartridge/Print paper
100 x 140 mm (4 x 5 5/8 inches)
Print pack: VPM-P50STA
VPM-P50WSA
VPM-P50S02B
VPM-P50S16A
VPM-P50LAB

Power requirements
110 - 120 V AC, 50/60 Hz, 0.6 A

Power consumption
72W (printing)
13 W (standby mode)

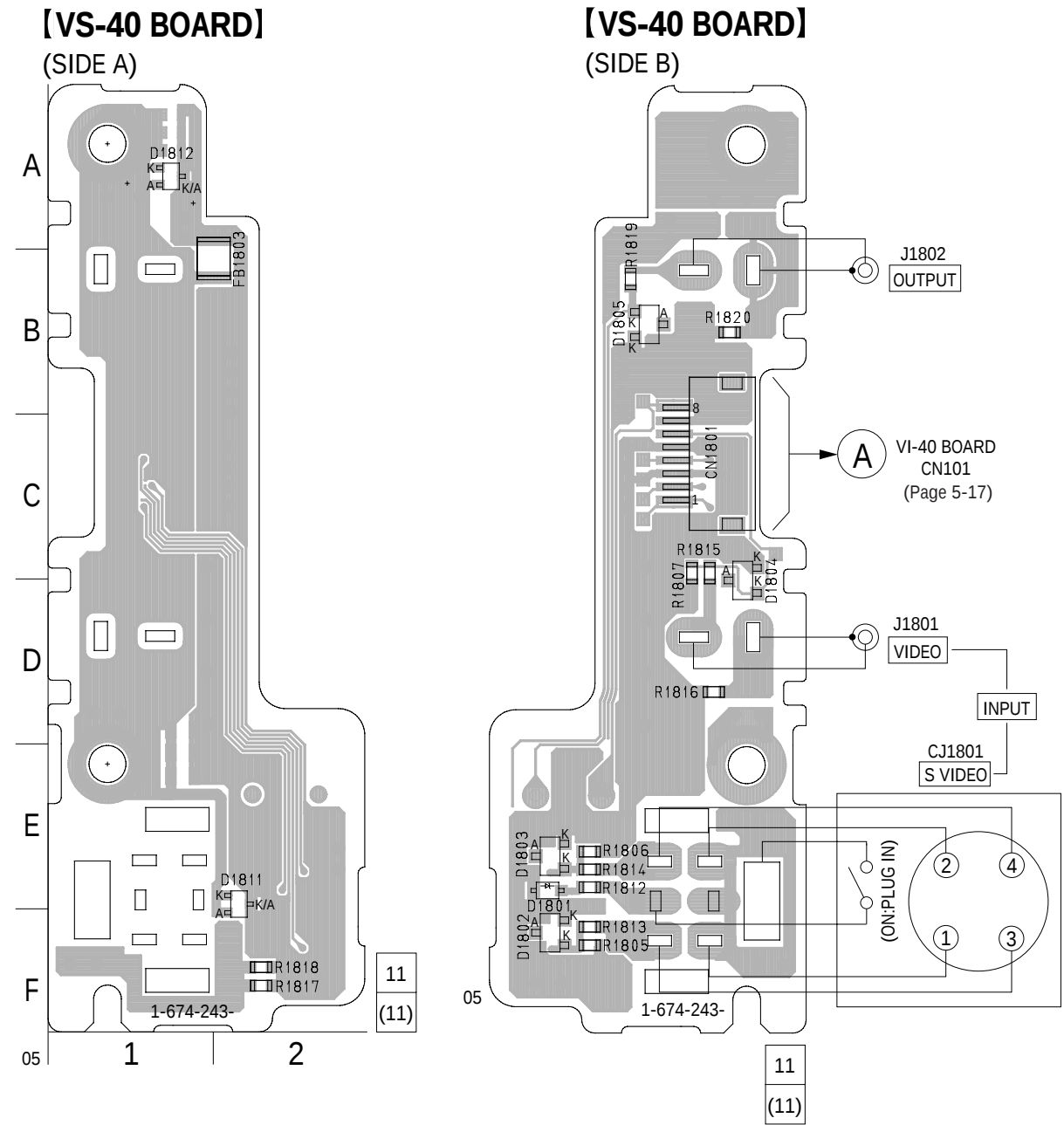
Operating temperature
5 °C to 35 °C (41 °F to 95 °F)

— Continued on next page —

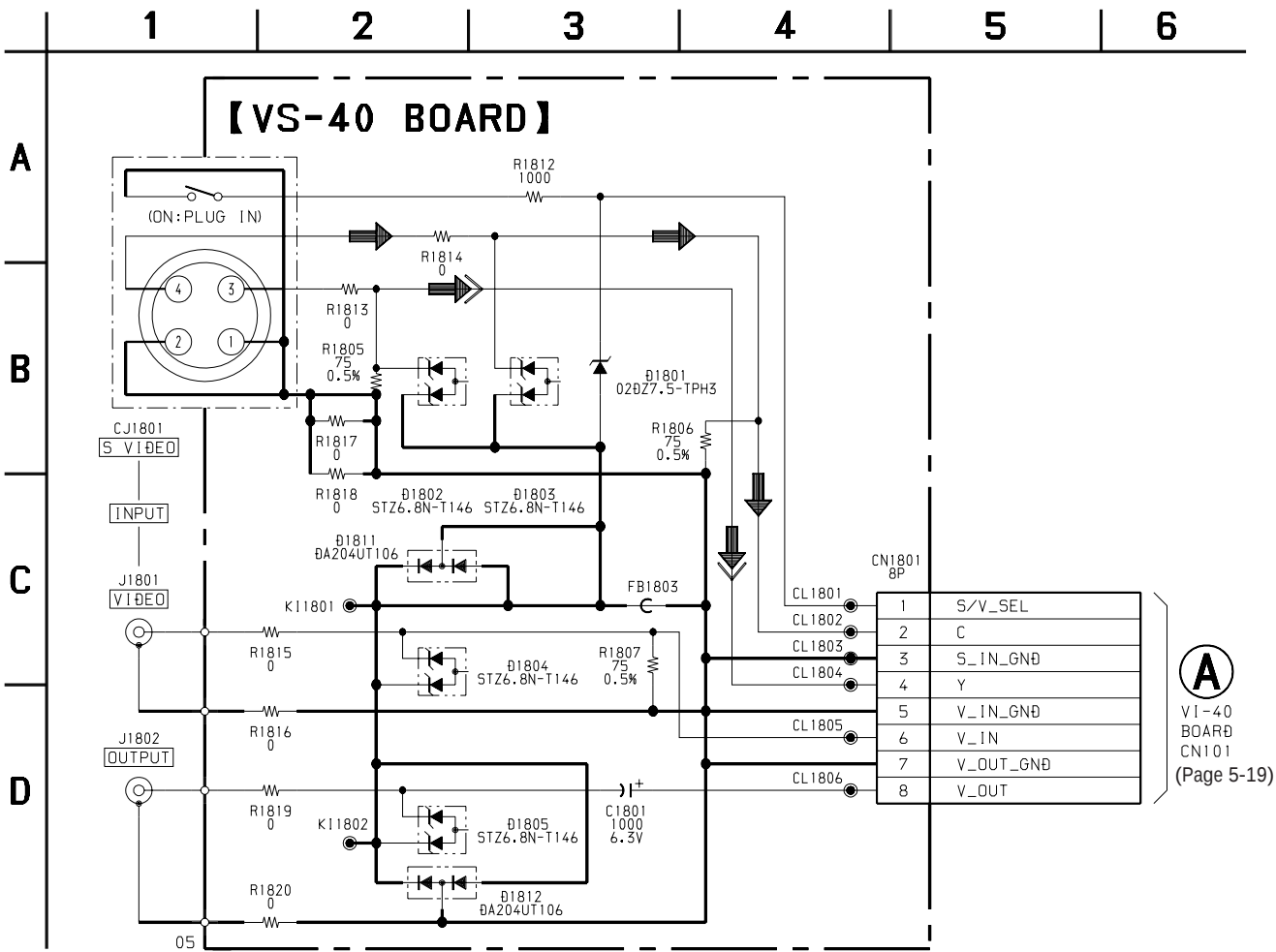
DIGITAL PHOTO PRINTER

SONY®

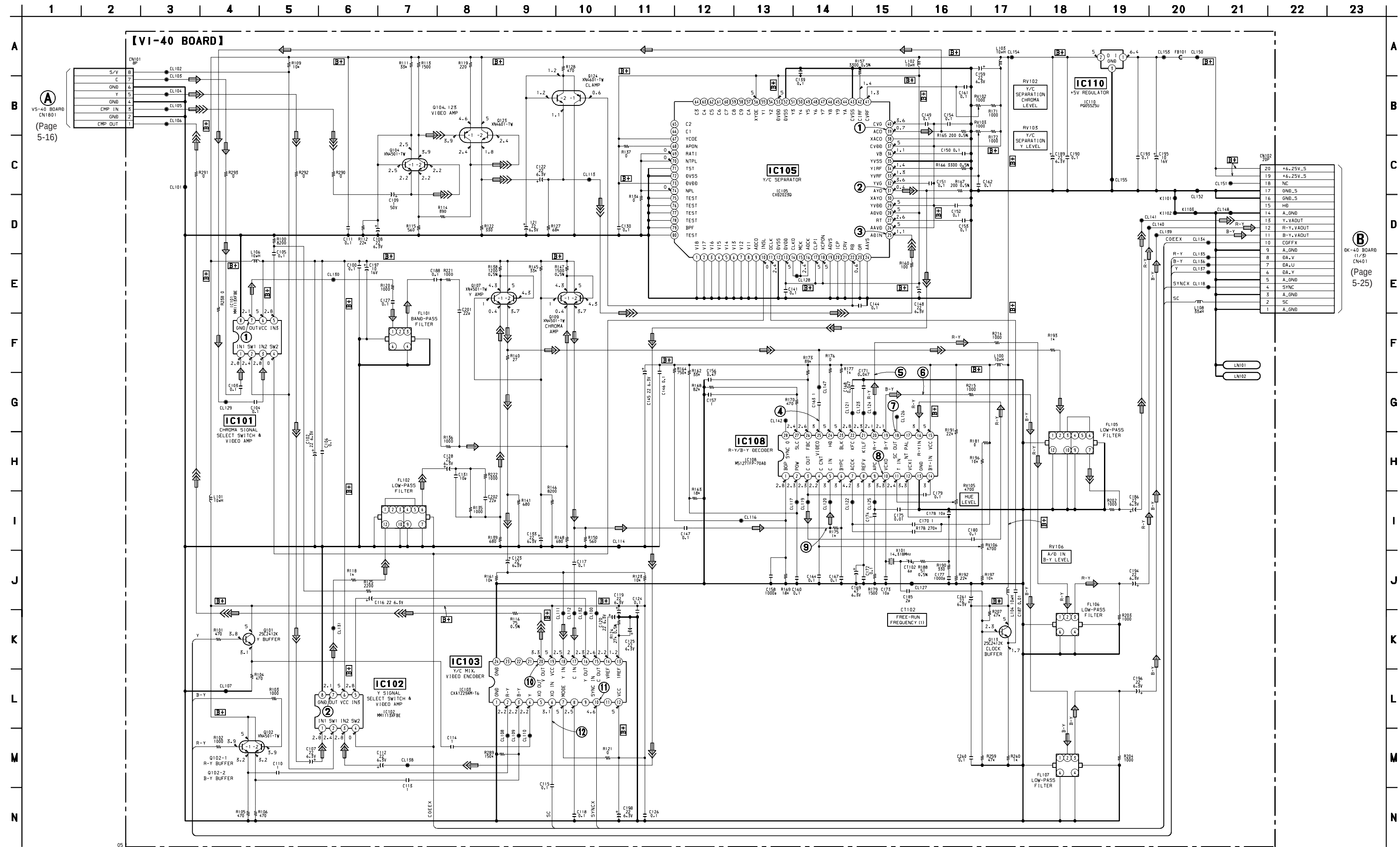
5-8. PRINTED WIRING BOARD – VS-40 Board –



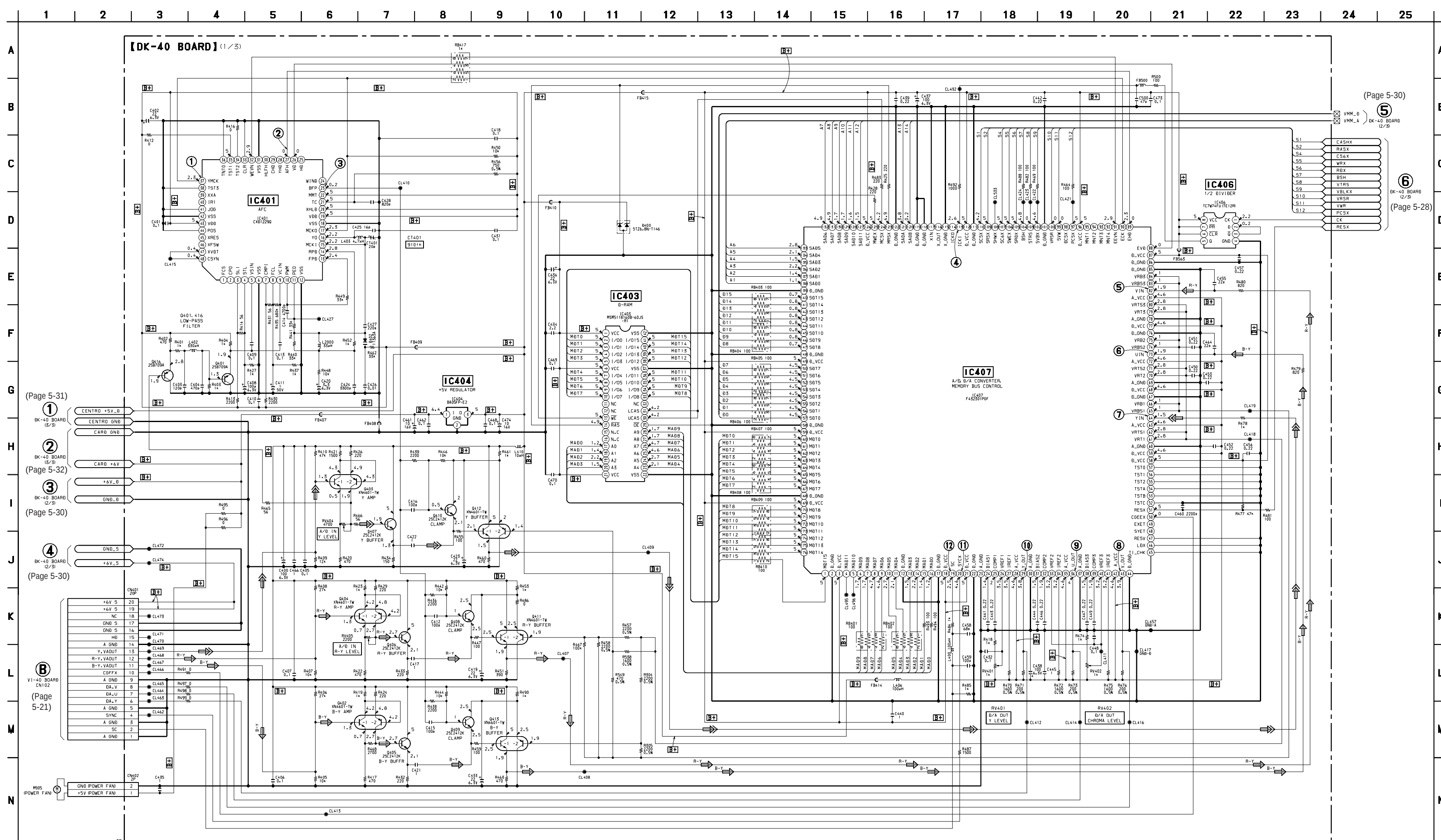
5-9. SCHEMATIC DIAGRAM – VS-40 Board –



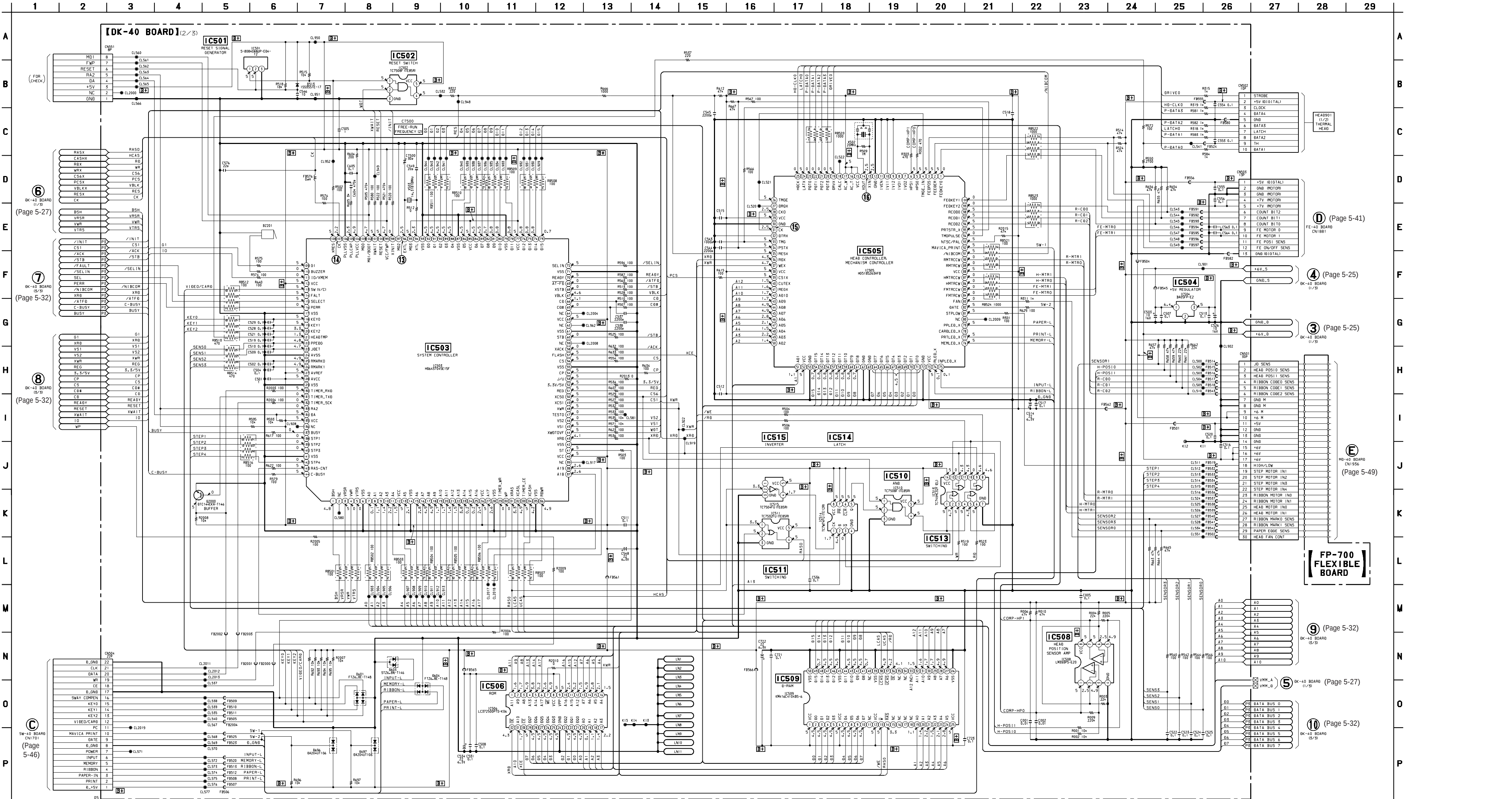
5-11. SCHEMATIC DIAGRAM – VI-40 Board – • See page 5-52 for Waveforms. • See page 5-55 for IC Block Diagrams.



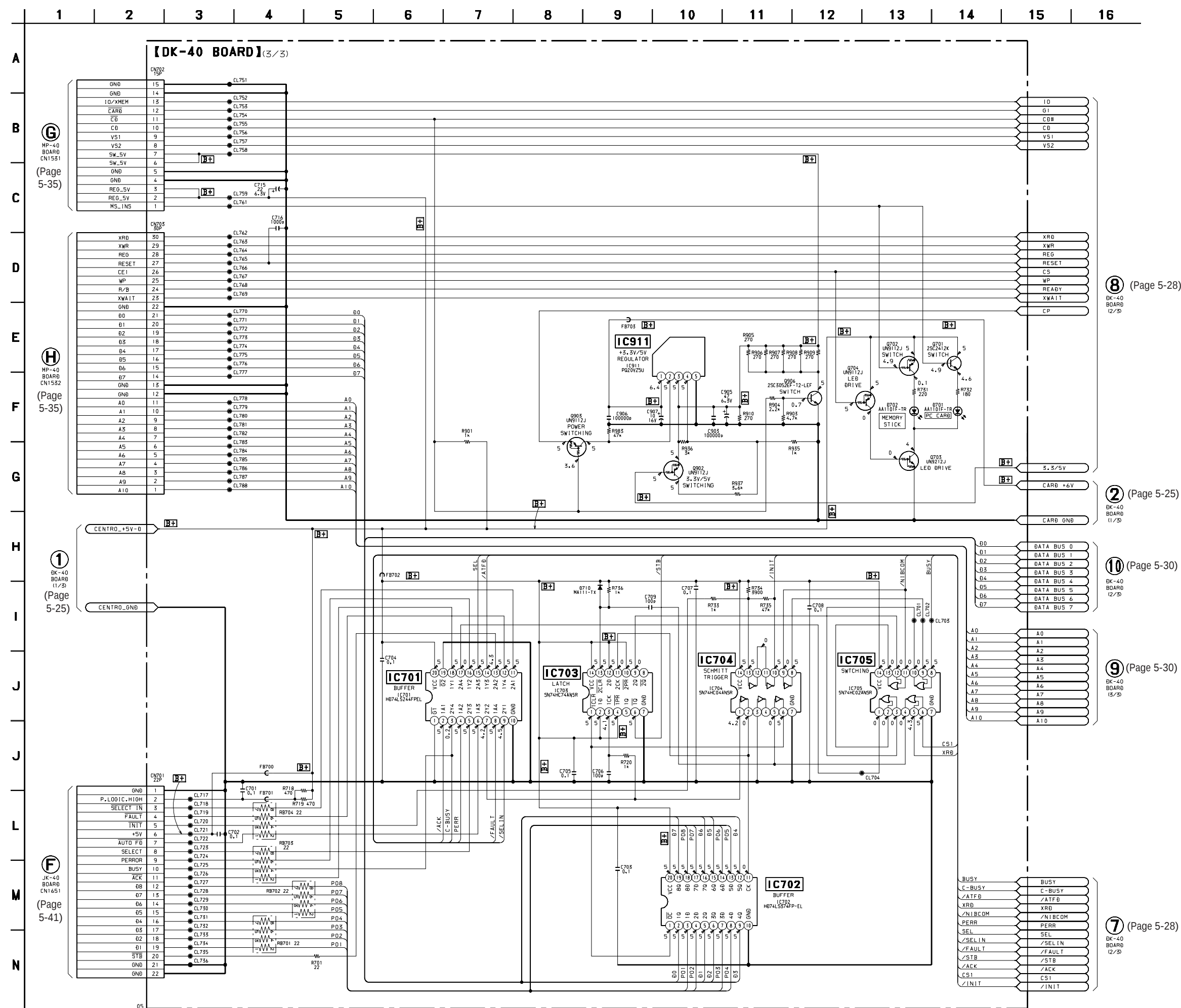
5-13. SCHEMATIC DIAGRAM – DK-40 Board (1/3) – • See page 5-53 for Waveforms.



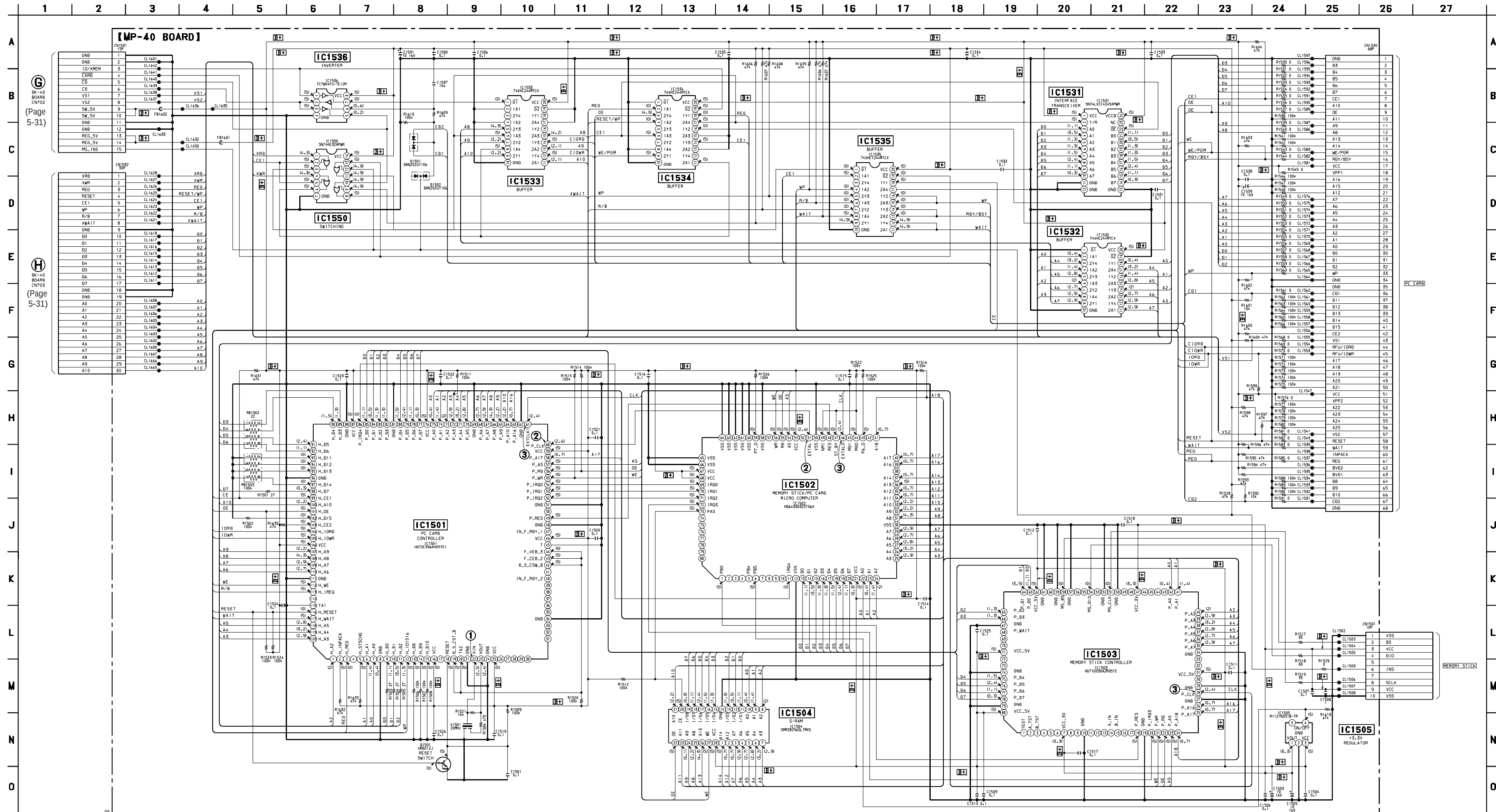
5-14. SCHEMATIC DIAGRAM – DK-40 Board (2/3) – • See page 5-53 for Waveforms.



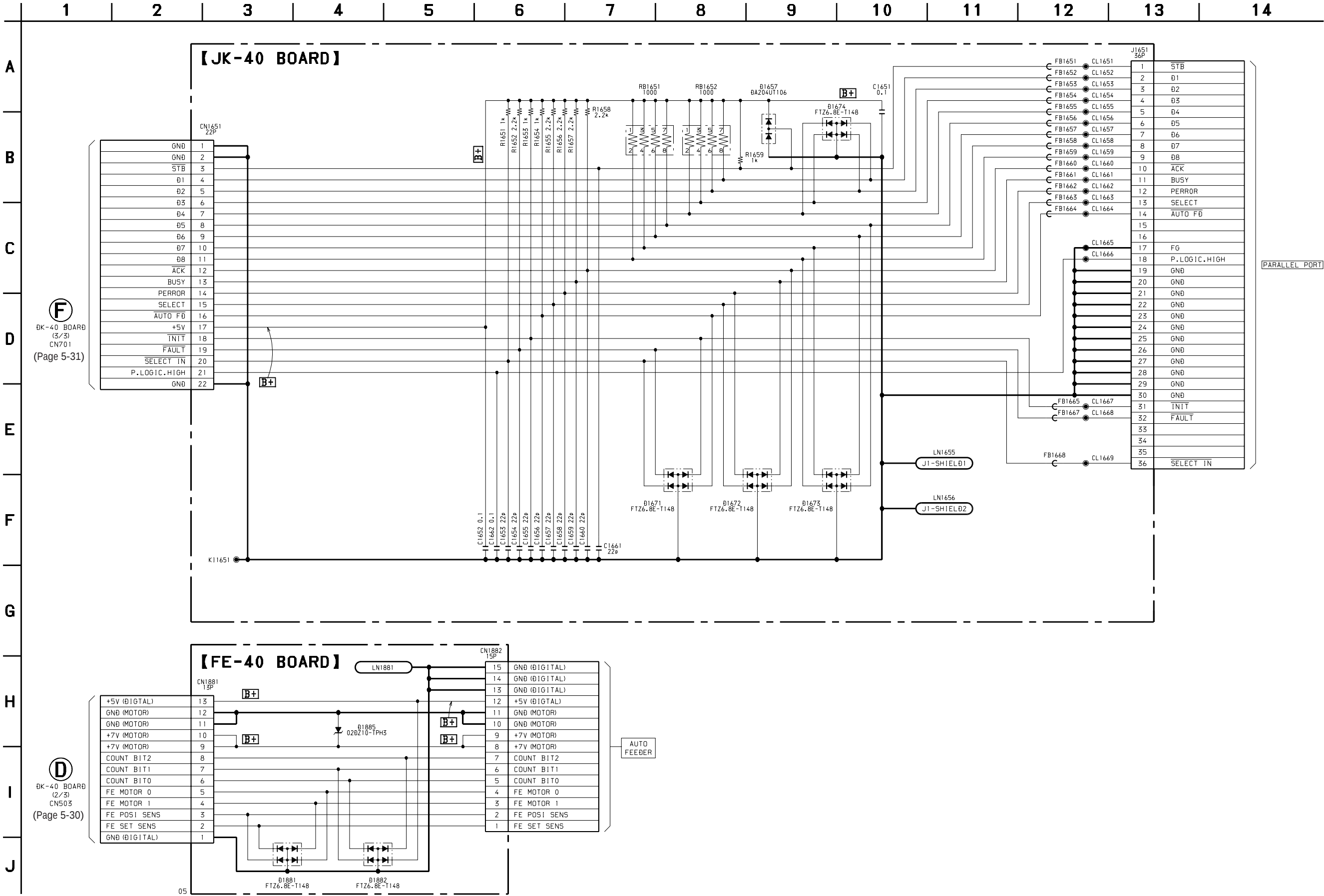
5-15. SCHEMATIC DIAGRAM – DK-40 Board (3/3) – • See page 5-56 for IC Block Diagrams.



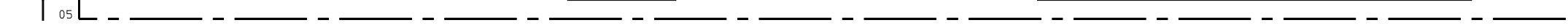
5-17. SCHEMATIC DIAGRAM – MP-40 Board – • See page 5-54 for Waveforms. • See page 5-57 for IC Block Diagrams.



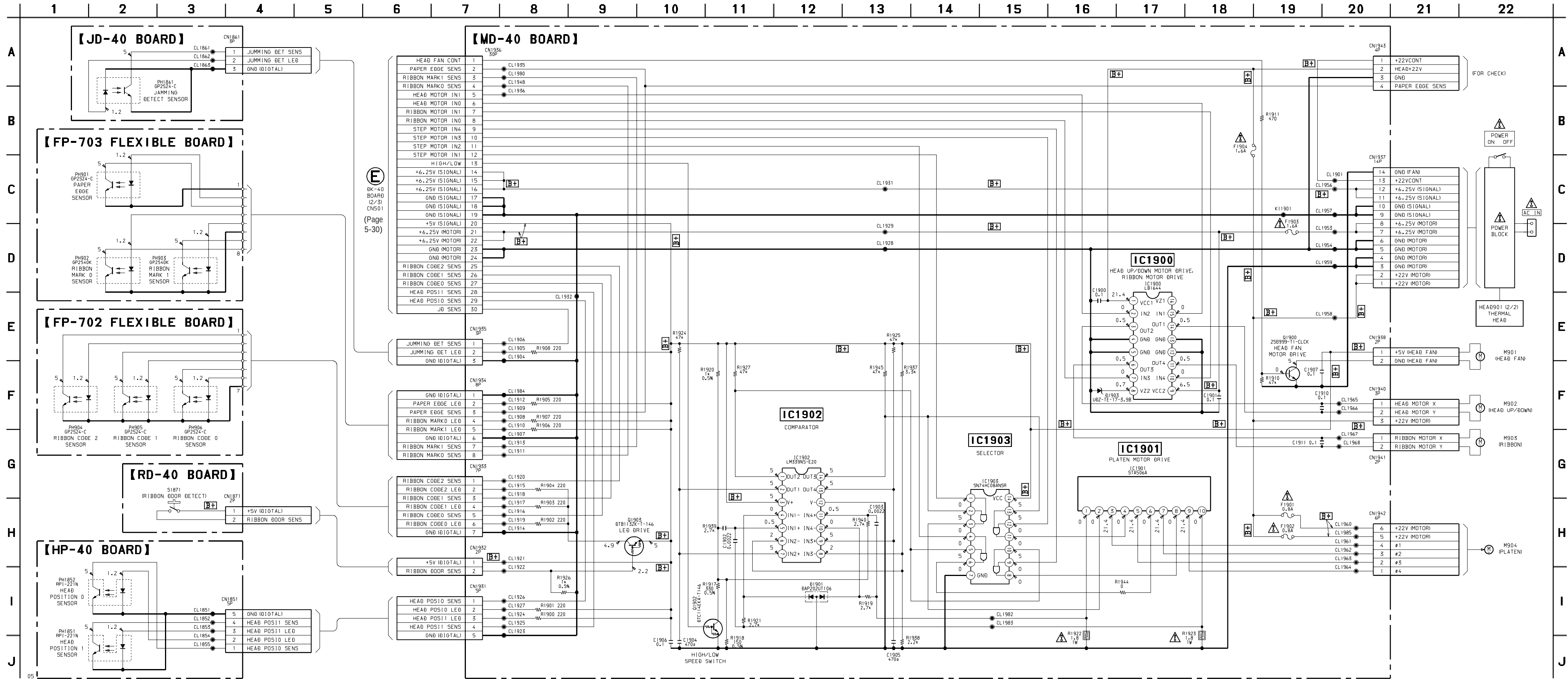
5-19. SCHEMATIC DIAGRAM – FE-40/JK-40 Boards –



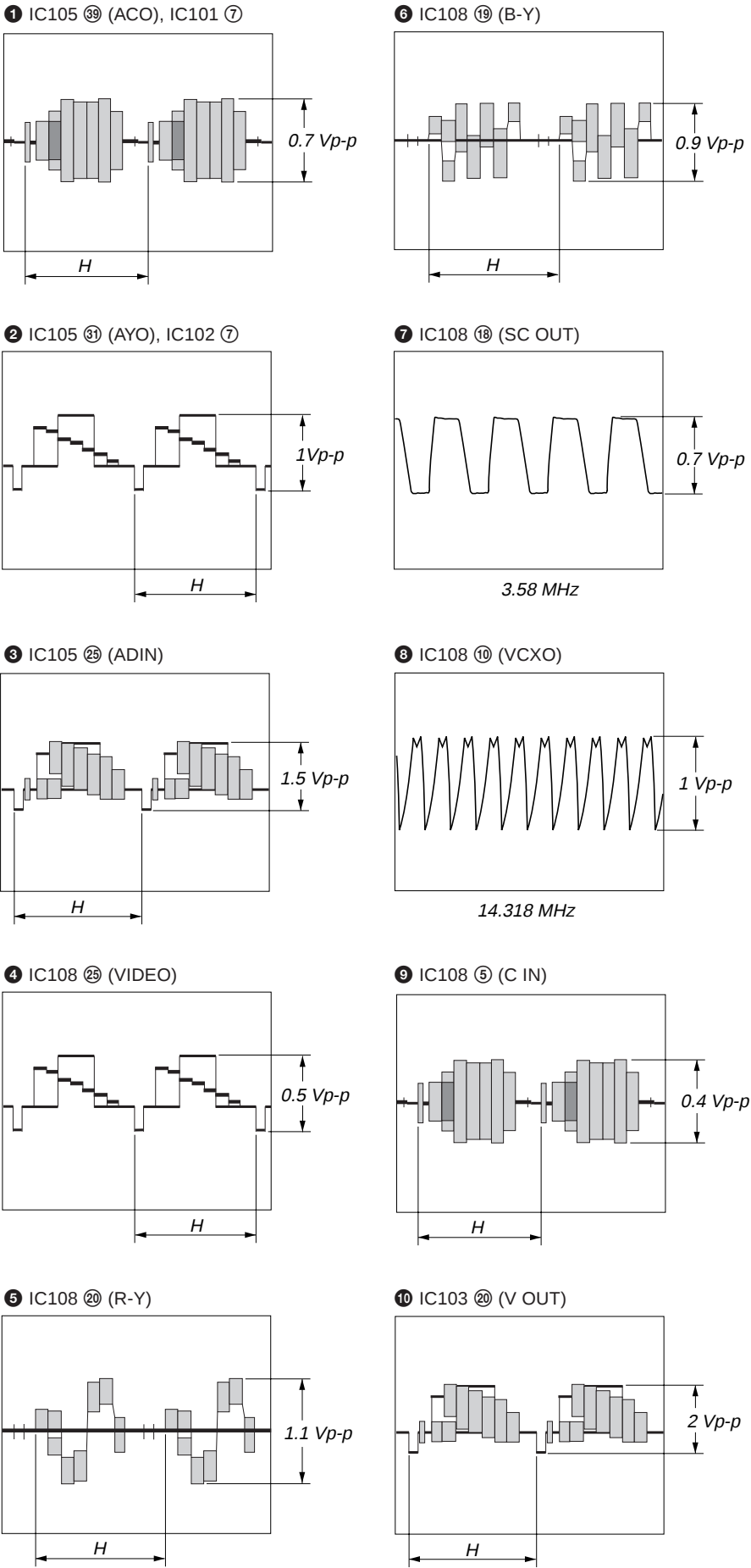
5-45



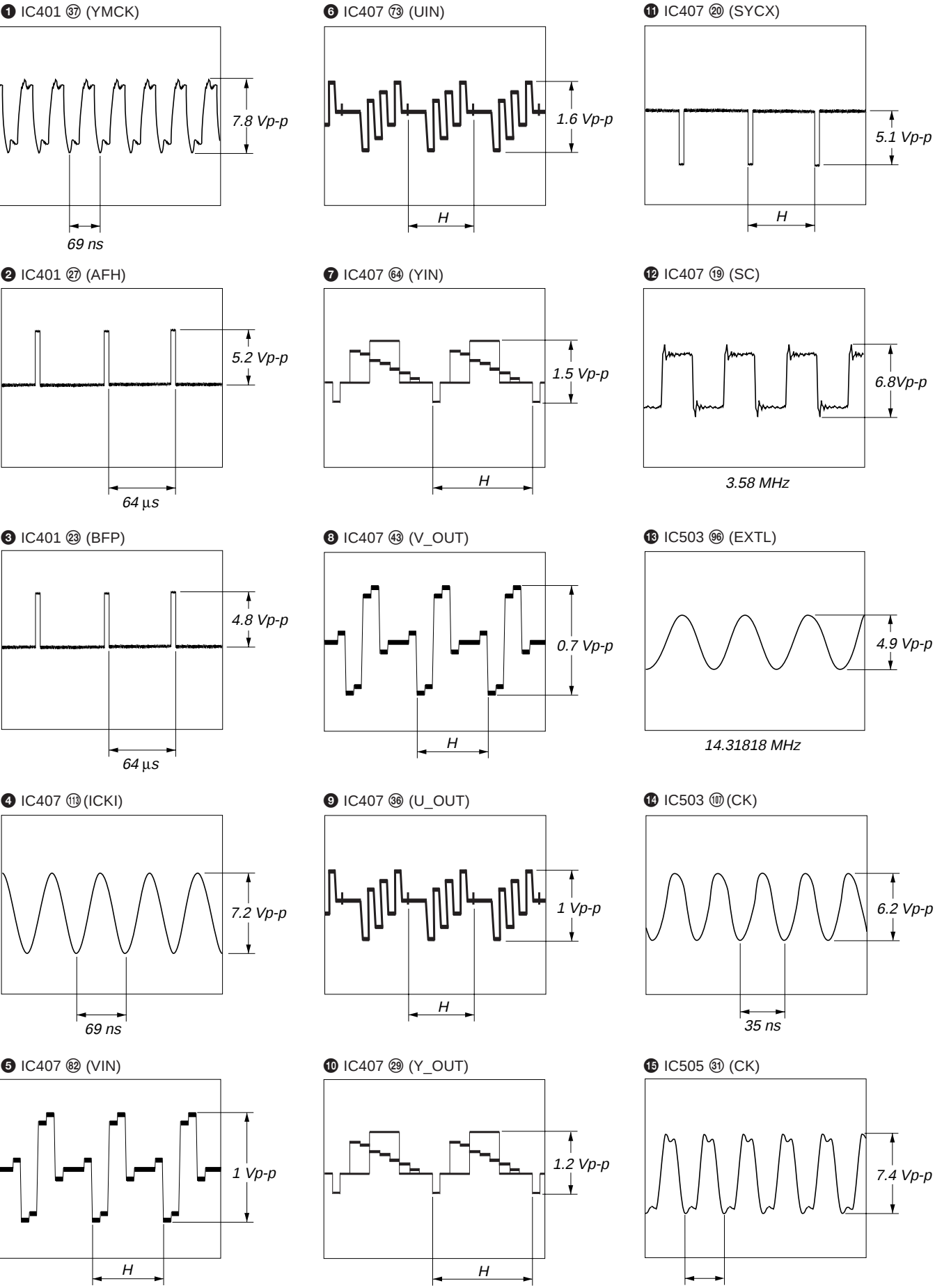
5-23. SCHEMATIC DIAGRAM – HP-40/JD-40/MD-40/RD-40 Boards – • See page 5-57 for IC Block Diagrams.



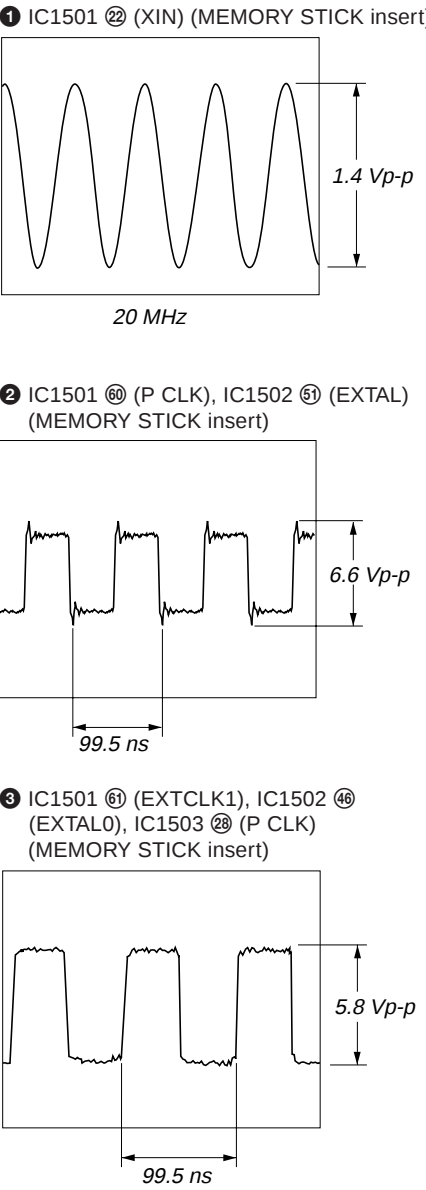
• Waveforms
– VI-40 Board –



– DK-40 Board –

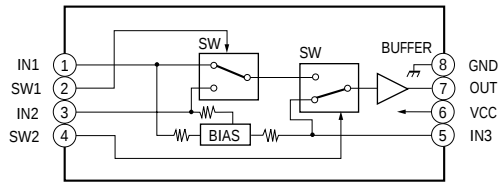


– MP-40 Board –

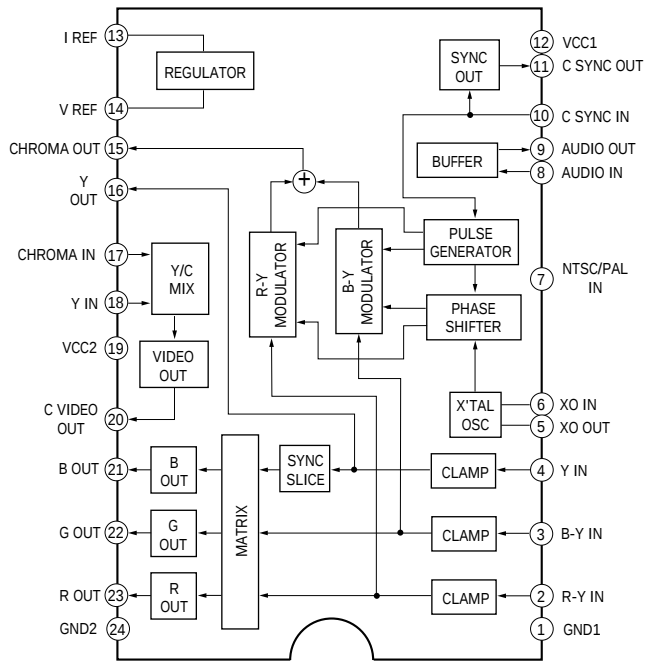


• IC Block Diagrams
– VI-40 Board –

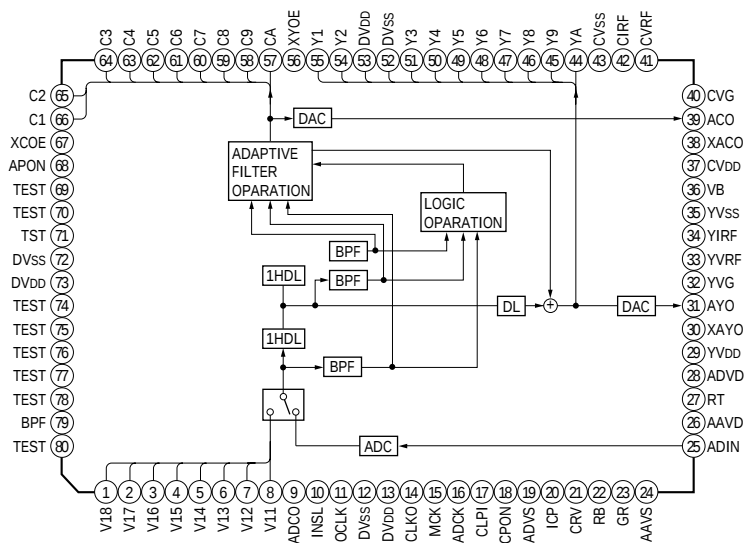
IC101, 102 MM1113XFBE



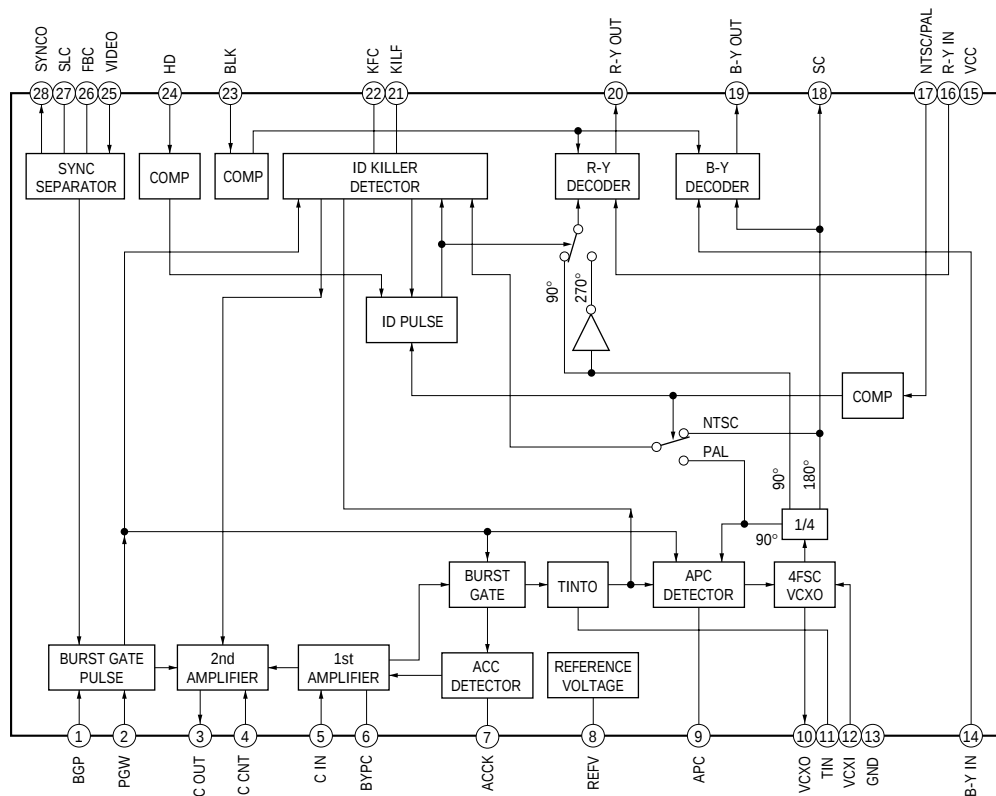
IC103 CXA1229AM-T6



IC105 CXD2023Q

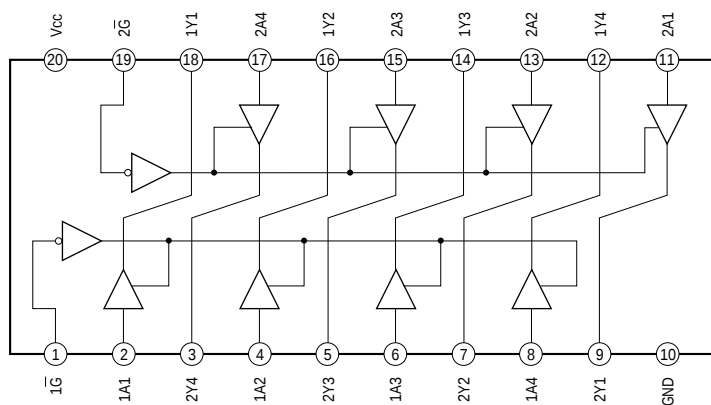


IC108 M5127FP-70AD

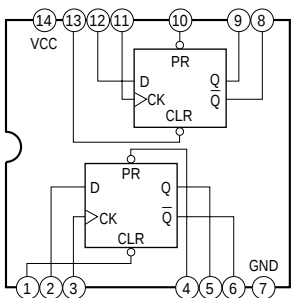


- DK-40 Board -

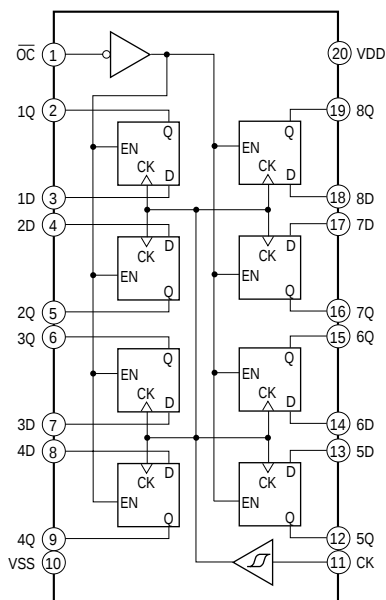
IC701 HD74LS244FPEL



IC703 SN74HC74ANSR

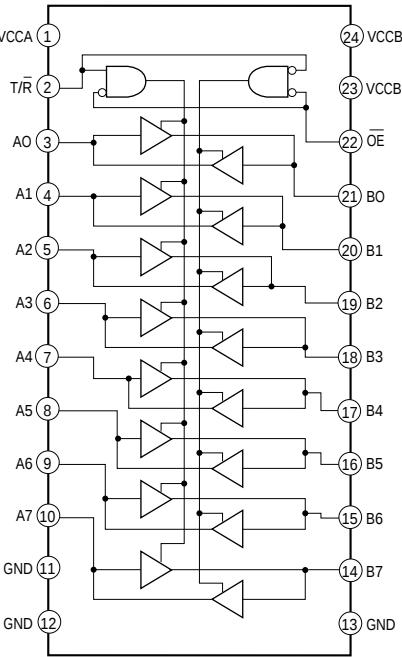


IC702 HD74LS374FPEL

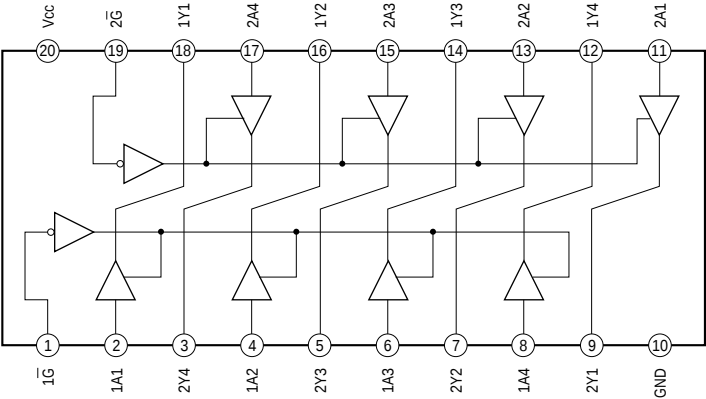


– MP-40 Board –

IC1531 SN74LVCC4245APWR

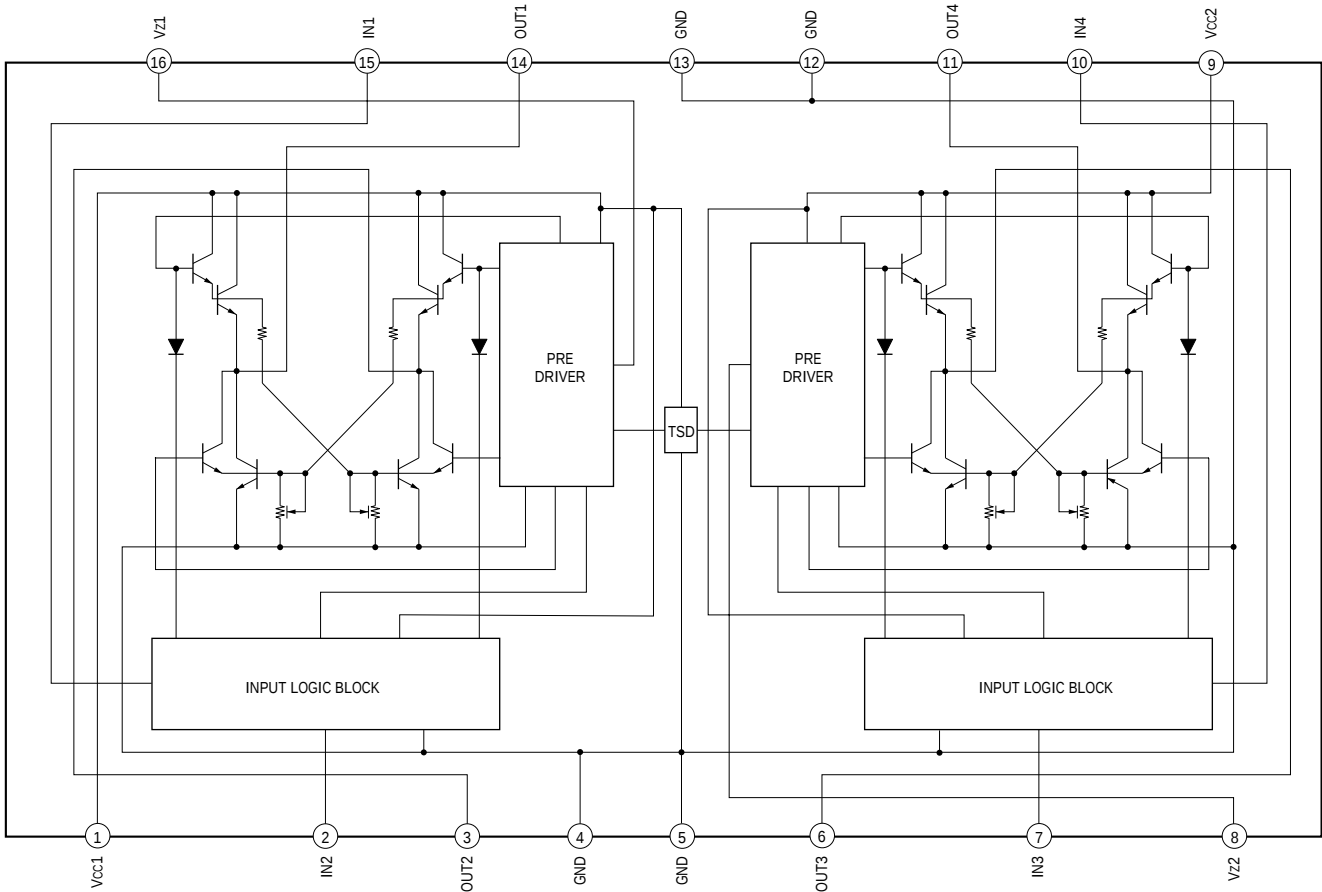


IC1532 – 1534 74VHC244MTCX
IC1535 74VHCT244MTCX

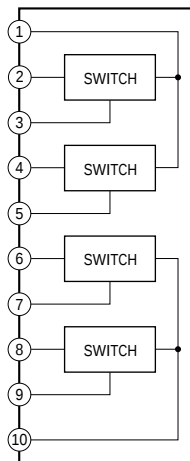


– MD-40 Board –

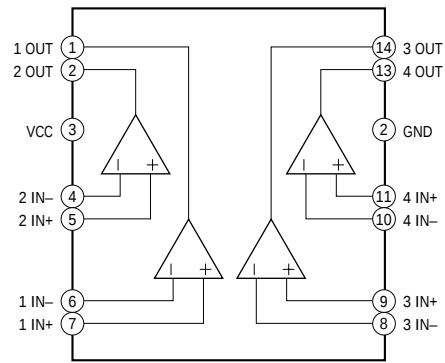
IC1900 LB1644



IC1901 STA506A



IC1902 LM339NS-E20



– SW-40 Board –

IC1700 RTC-4543SBB-L2

