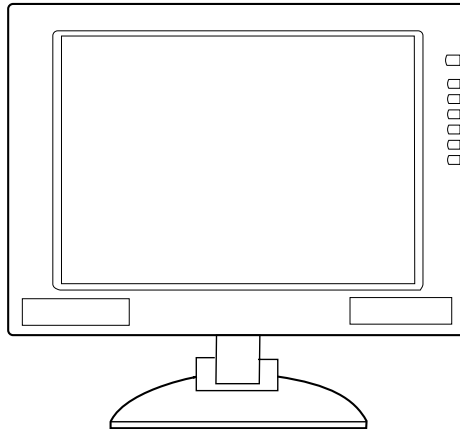


SDM-M51

SERVICE MANUAL

US Model
Canadian Model
AEP Model



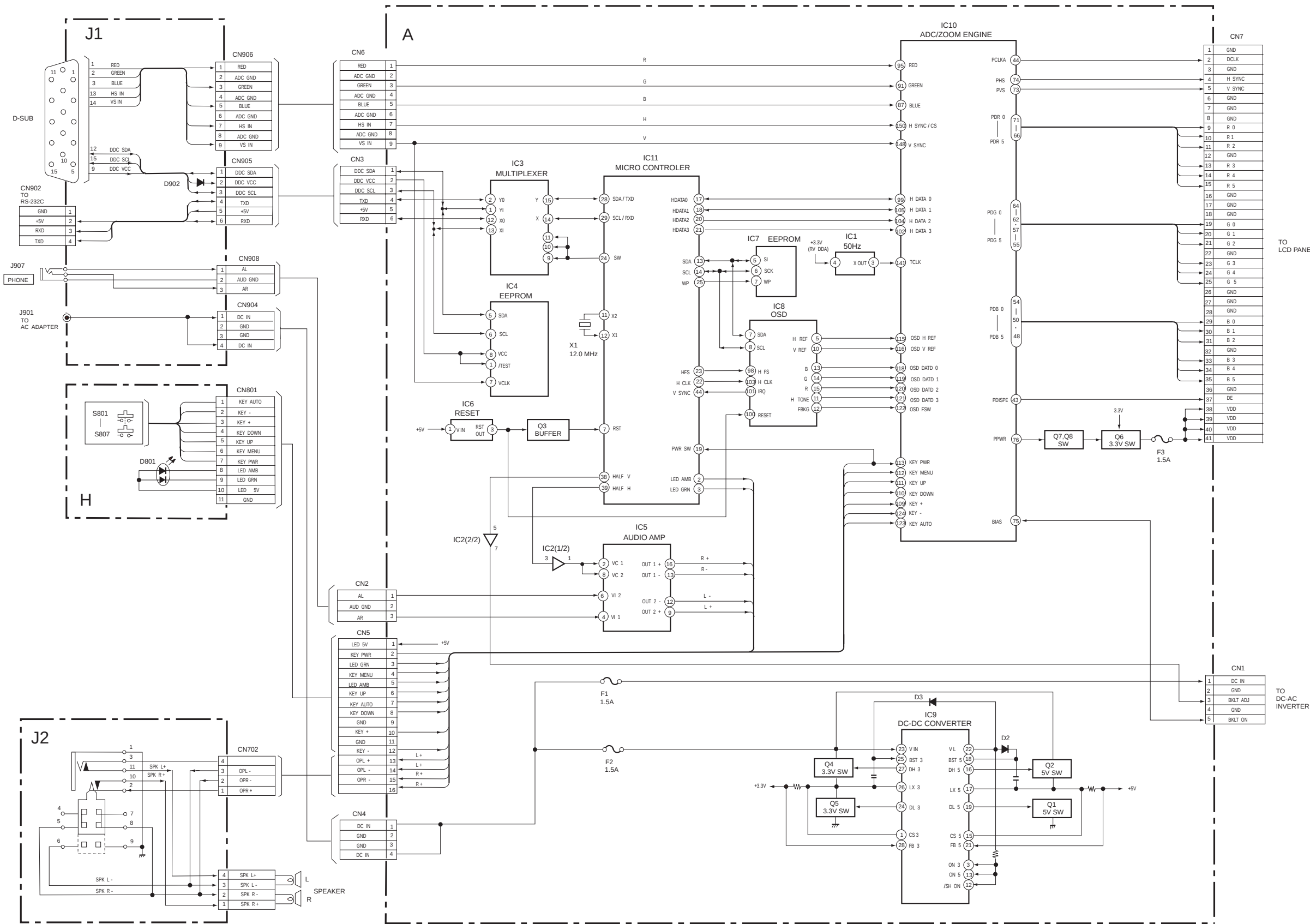
SPECIFICATIONS

LCD panel	Panel type: a-Si TFT Active Matrix Picture size: 15.1 inch	Dimensions (width/height/depth)
Input signal format	RGB operating frequency* Horizontal: 28 – 64 kHz Vertical: 48 – 75 Hz	Display (upright): Approx. 387 × 345 × 180 mm (15 1/4 × 13 5/8 × 7 1/8 inches) (with stand)
Resolution	Horizontal: Max.1024 dots Vertical: Max.768 lines	Approx. 387 × 296 × 48 mm (15 1/4 × 11 3/4 × 1 15/16 inches) (without stand)
Input signal levels	RGB video signal 0.7 Vp-p, 75 Ω, positive SYNC signal TTL level, 2.2 kΩ, positive or negative (Separate horizontal and vertical, or composite sync) 0.3 Vp-p, 75Ω, negative (Sync on green)	Mass Approx. 4.6 kg (10 lb 14 oz) (with stand) Plug & Play DDC1/DDC2B/DDC2Bi Accessories See page 7.
Audio output	1 W × 2	* Recommended horizontal and vertical timing condition • Horizontal sync width duty should be more than 4.8% of total horizontal time or 0.8 μs, whichever is larger. • Horizontal blanking width should be more than 2.5 μsec. • Vertical blanking width should be more than 450 μsec.
Headphones jack	Stereo minijack Accepts impedance of 16 – 48 Ω	
AUDIO IN jack	Stereo minijack Accepts impedance of 47 kΩ Accepts level 0.5 Vrms	
Power requirements	100 – 240 V, 50 – 60 Hz, 0.4 – 0.2 A	Design and specifications are subject to change without notice.
DC input	DC 18 V (supplied AC adapter)	
Power consumption	Max. 19 W Max. 22 W (including AC adapter)	
Operating temperature	5 – 35 °C	

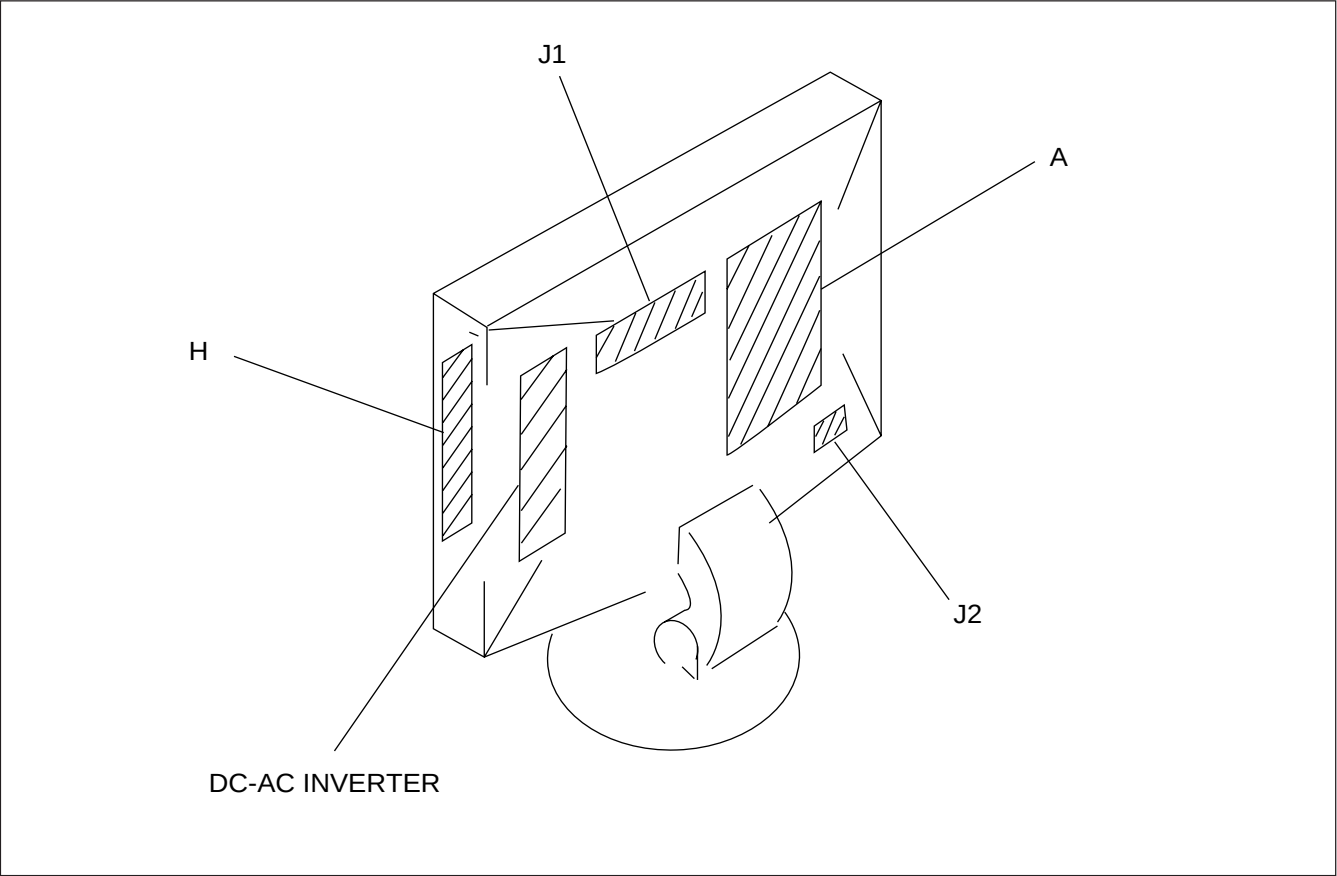
TFT LCD COLOR COMPUTER DISPLAY
SONY®

SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAMS



4-2. CIRCUIT BOARDS LOCATION



4-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- Note:**
- All capacitors are in μF unless otherwise noted. (pF: μF)
 - Capacitors without voltage indication are all 50 V.
 - Indication of resistance, which does not have one for rating electrical power, is as follows.

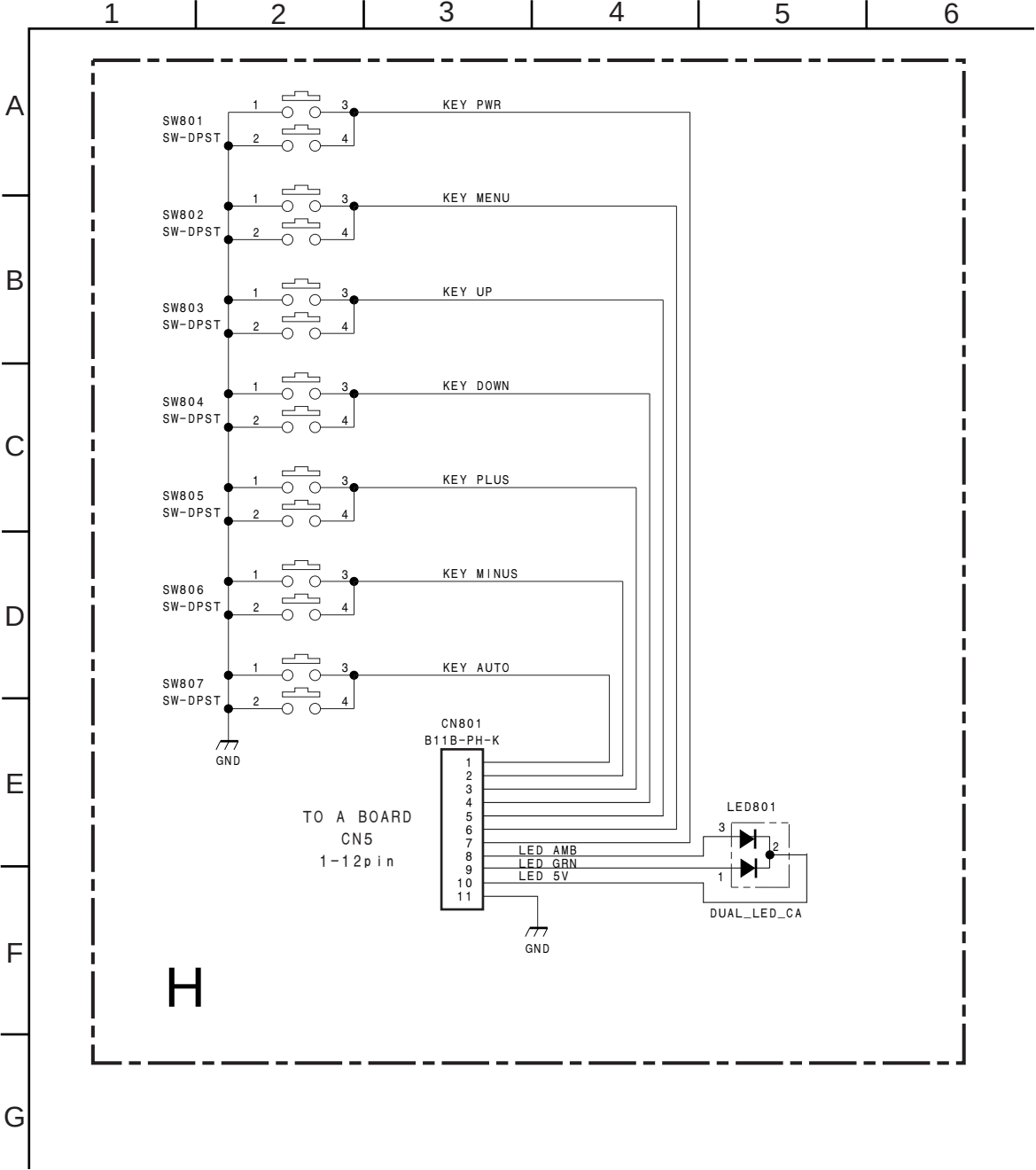
Pitch: 5 mm
Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
-  : nonflammable resistor.
-  : fusible resistor.
-  : internal component.
-  : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
-  : earth-ground.
-  : earth-chassis.
- All voltages are in V.
- Readings are taken with a 10 M digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- * : Can not be measured.
- Circled numbers are waveform references.
-  : B + bus.
-  : B – bus.

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note: Les composants identifiés per un tramé et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

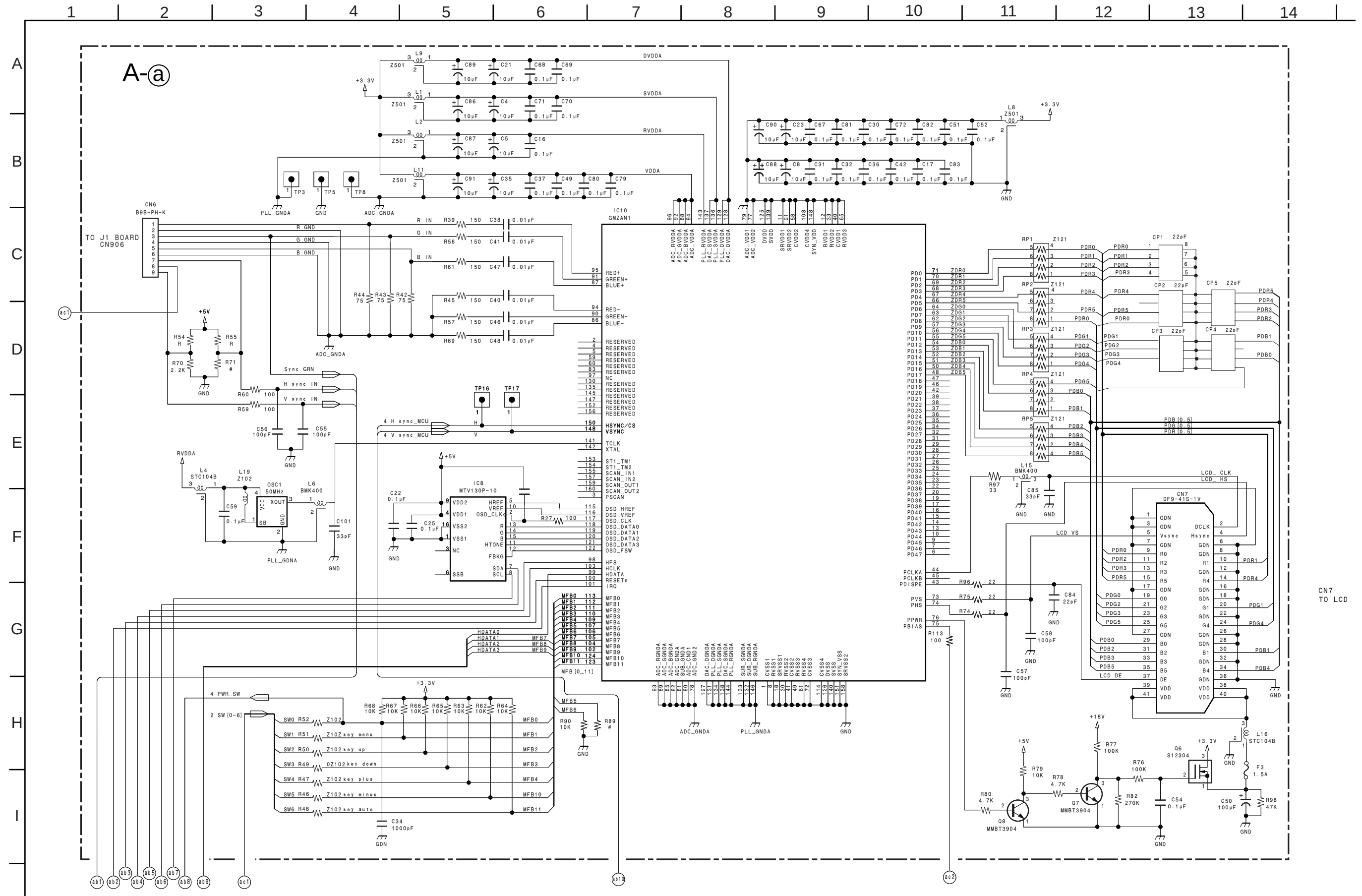
(1) Schematic Diagram of H Board

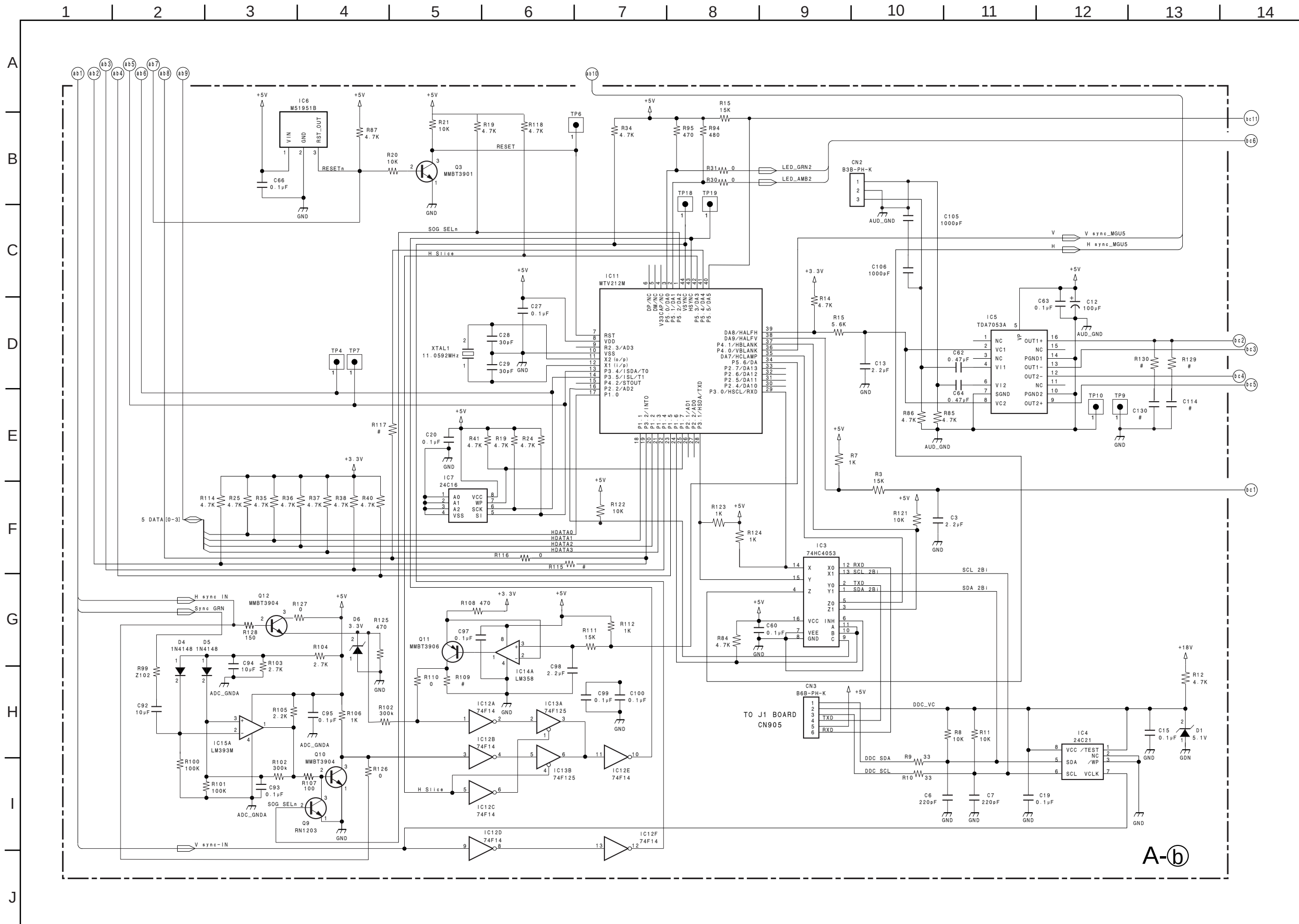


— H BOARD (Conductor Side) —



(2) Schematic Diagram of A(a - c) Board





Schematic diagram
 ← A - (a) board

Schematic diagram
 A - (b) board →

1 2 3 4 5 6 7 8 9 10 11 12

A
B
C
D
E
F
G
H
I
J

