SERVICE MANUAL



Photo: SLV-L89HF **RMT-V267**



S MECHANISM

Mexican Model SLV-L49/L69HF/L89HF/X55/X66HF

Panama Model Ecuador Model Colombia Model SLV-L52/L72HF

Bolivia Model Peru Model Chilean Model

Venezuelan Model SLV-L59/L79HF/L89HF

Puerto Rico Model

SLV-L59/L79HF

Refer to the SERVICE MANUAL of VHS MECHANICAL ADJUSTMENT VI for **MECHANICAL ADJUSTMENTS. (9-921-647-11)**

SPECIFICATIONS

System

Format VHS NTSC standard Video recording system Rotary head helical scanning

FM system

Video heads Double azimuth four heads Video signal NTSC color, EIA standards SP: 33.35 mm/s Tape speed

EP: 11.11 mm/s

LP: 16.67 mm/s, Playback

only Maximum recording/playback time

9hrs. in EP mode

(with T-180 tape)

Fast-forward and rewind time

Approx. 3 min. (with T-120 tape)

Tuner section

Channel coverage VHF 2 to 13

UHF 14 to 69

CATV A-8 to A-1, A to W,

W+1 to W+84

Antenna 75 Ω antenna terminal for

VHF/UHF

Inputs and outputs

LINE-1 IN/LINE-2 IN

VIDEO IN, phono jack

(1 each)

Input signal : 1 Vp-p, 75 Ω , unbalanced, sync negative AUDIO IN, phono jacks (1 each)(SLV-L49MX, L52PA/PC, L59CL/CS/PR/ VZ and X55 MX), (2 each)(SLV-L69HF MX, L72HF PA/PC, L79HF CL/CS/PR/VZ, L89HF CL/CS/MX/VZ and X66HF MX)

Input level: 327 mVrams Input impedance: more than 47 kilohms

VIDEO OUT, phono jack (1) LINE OUT

Output signal : 1 Vp-p, 75 Ω unbalanced, sync negative AUDIO OUT, phono jacks (1 each)(SLV-L49MX L52PA/PC_L59CL/CS/PR/VZ

and X55 MX).

(2 each)(SLV-L69HF MX.

L72HF PA/PC.

L79HF CL/CS/PR/VZ, L89HF CL/CS/MX/VZ and X66HF MX)

Standard output : 327 mVrms Load impedance: 47 kilohms Output impedance: less than 10

kilohms

Ouartz locked 12 – hour cycle

Timer section

Clock Timer indication

Timer setting

8 programs per month (max.) Built-in self-charging capacitor Power back-up Back-up duration: up to 8 hours

at a time

General

Power requirements

110 V AC to 240 V AC, 50/60 Hz (SLV-L59CL/CS/PR, L79HF CL/ CL/PR and L89HF CL/CS) 120 V AC, 60 Hz (SLV-L49 MX L52 PA/PC L59

VZ, X55 MX, L69HF MX, L72HF PA/PC, L79HF VZ, L89HF MX/VZ and X66HF MX) Power consumption 18 W

(SLV-L49MX, L52PA/PC, L59CL/CS/PR/VZ and X55

MX)

19 W (SLV-L69HF MX, L72HF PA/PC, L79HF CL/CS/PR/

VZ. L89HF CL/CS/MX/VZ and

X66HF MX)

5°C to 40°C (41°F to 104°F) Operating temperature Storage temperature

-20°C to 60°C (-4°F to

140°F)

Approx. $335 \times 96 \times 289 \text{ mm}$ Dimensions (w/h/d)

including projecting parts

and controls

Mass Aoorox. 3.7 kg

Supplied accessories

Remote commander (1) Size AA (R6) batteries (2)

75 Ω coaxial cable with F-type connectors (1) Audio/video cable (3 phono to 3 phono) (1)(SLV-

L69HF MX, L72HF PA/PC.

L79HF CL/CS/PR/VZ, L89HF CL/CS/MX/VZ and X66HF MX only)

Plug adaptor (1)(SLV-L59 CL/CS/PR, L79HF CL/

CS/PR and L89HF CL/CS only)

Design and specifications are subject to change without notice

VIDEO CASSETTE RECORDER





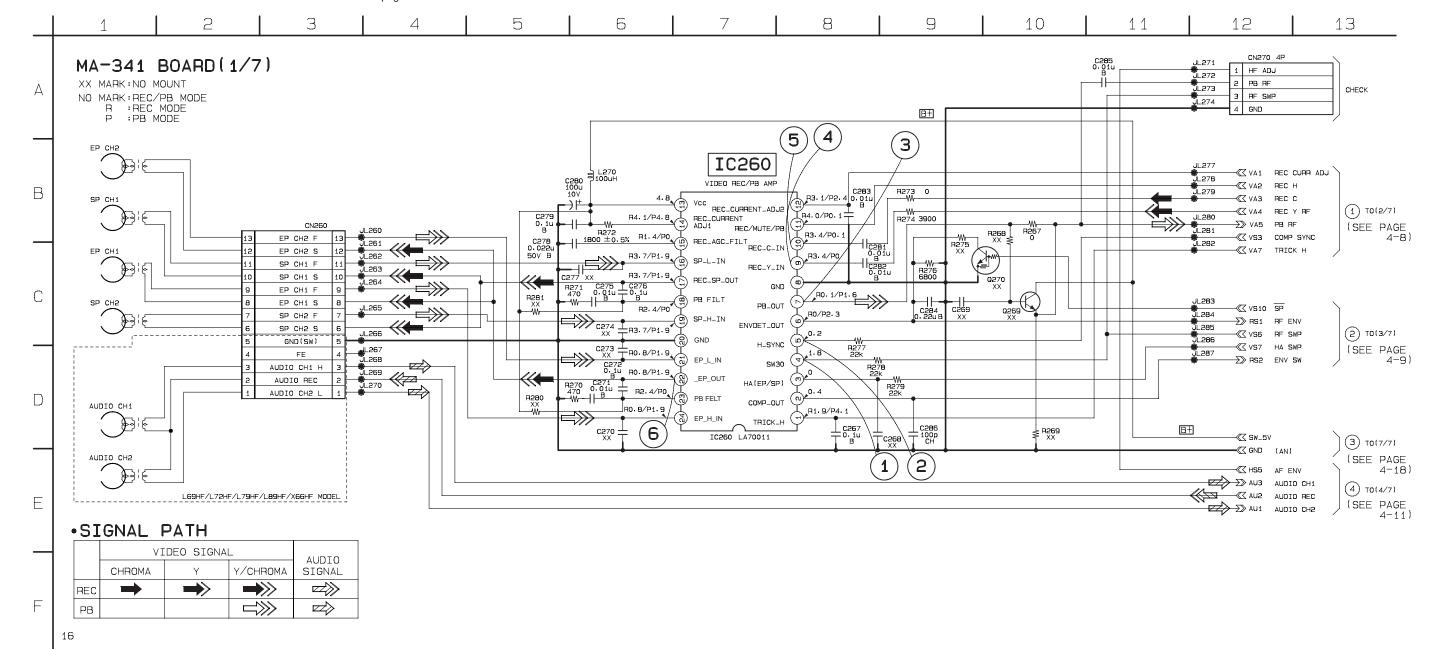
4-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

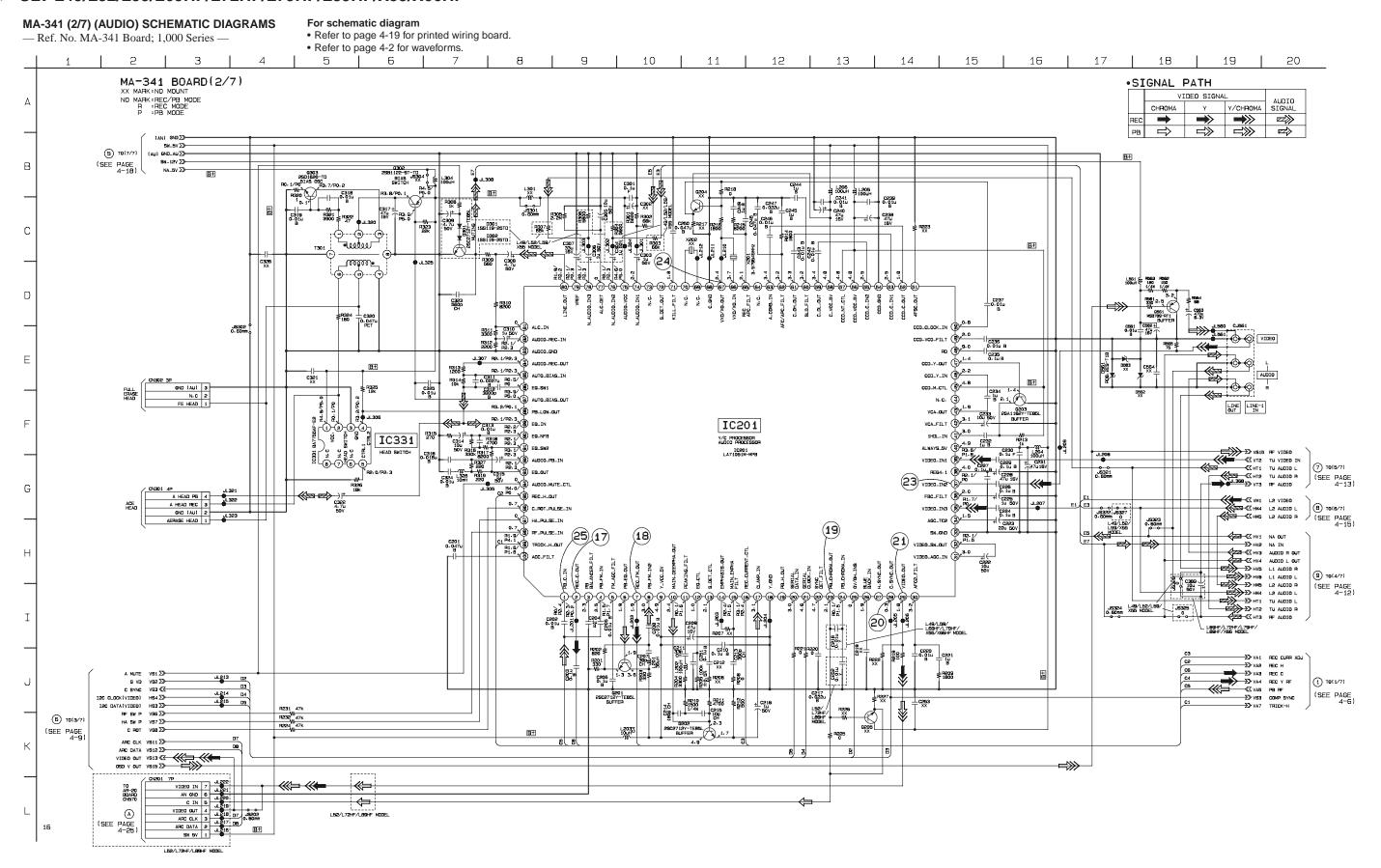
MA-341 (1/7) (VIDEO) SCHEMATIC DIAGRAMS

— Ref. No. MA-341 Board; 1,000 Series —

For schematic diagram

- Refer to page 4-19 for printed wiring board.
- Refer to page 4-2 for waveforms.





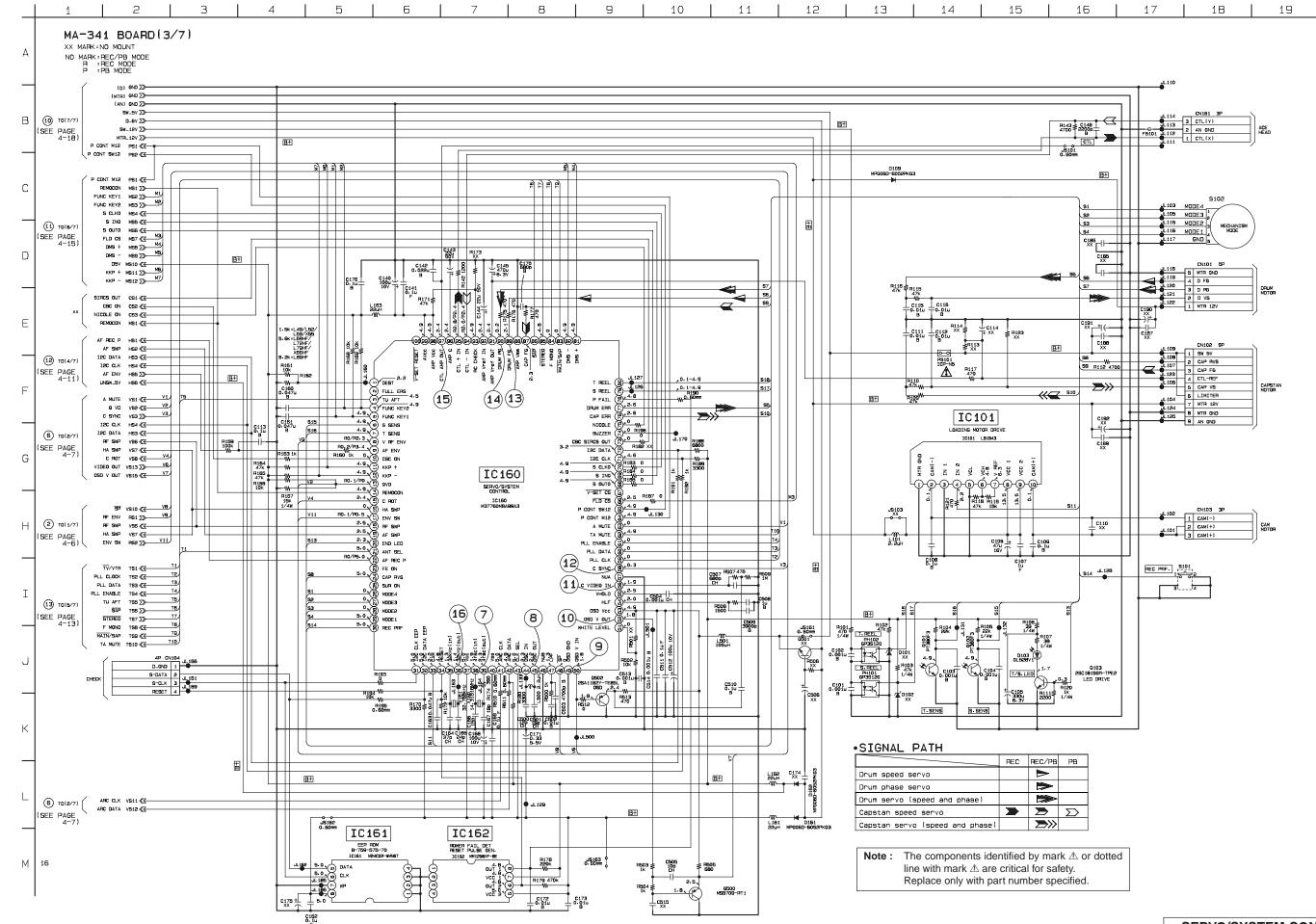
AUDIO MA-341(2/7)

MA-341 (3/7) (SERVO/SYSTEM CONTROL) SCHEMATIC DIAGRAMS

— Ref. No. MA-341 Board; 1,000 Series —

For schematic diagram

- Refer to page 4-19 for printed wiring board.
- Refer to page 4-21 for waveforms.



For schematic diagram

• Refer to page 4-19 for printed wiring board.

MA-341 (4/7) (AUDIO PROCESS) SCHEMATIC DIAGRAMS

— Ref. No. MA-341 Board; 1,000 Series —

3 6 8 9 10 12 4 1 1 13 MA-341 BOARD(4/7) (L69HF/L72HF/L79HF/L89HF/X66HF MODEL) NO MARK:REC/PB MODE R :REC MODE P :PB MODE В 15.0 LININ (0) 3.8 R4.0/P0.6 (II) LINOUT H4.0/P0.6 (W) AUDIO CH2 AU1 ∑ DECR AUDIO REC AU2 R4. 0/P0. 6 (h) IC360 (4) TO(1/7) AUDIO CH1 AU3 PBTN1 DECL (SEE PAGE R4. 0/P0 (B) AF ENV HS5 ≪ AFM AUDIO PROCESS 4-6) MUTER IC360 TDA9605H/N1.557 Q381 2SC2712Y-TE85L C371 0.1u B 0 6.0 C388 R-1.:
0 50V P-0.
0 50380

- 1... 0 50V P-1.:
- 1... 0 50V P-1.:
- 1... 0 50V P-1.:
- 1... 100V P-1.:
- 1... 1 4.8 D370 XX LINEL HO. 9/P4. 1 R372 10k R368 18k R384 MUTEL AF REC P HS1 ∑> 3.0 (4) 372 \square R385 W 0 MUTEC L373 4.6 I2C DATA H**S3** ∑≫— (1) 3. B (12) TO(3/7) L374 R386 RFCOUT I2C CLK HS4 ∑> H0.2/P3.5 (4) ENVOUT RFCAGC (N) RO. 3/PO AF ENV HS5 \(\bigcup \) JL375
UNSW_5V HS6 \(\bigcup \) (SEE PAGE UNSW_5V C372 47u 16V 0382 2SC2712Y-TE85L →± Q380-382 MUTE SWITCH C373 47u 16V 1-2-3-4-5-6-7-8-9-10-11 Ε →>>> HV1 NA OUT JL361 JL362 | R376 | R377 | R378 | -≪Z HV2 NA IN C382 C390 + → HV3 AUDIO R OUT L363 JL363 → HV4 AUDIO L OUT -≪ZHV5 L1 AUDIO R (9) TO(2/7) (AU) GND_AU ∑ B^+ (14) TO(7/7) SW_12V ∑> -≪Z HM5 L2 AUDIO R (SEE PAGE (SEE PAGE 4-18) -≪Z HM4 L2 AUDIO L →>> HT3 RF AUDIO *SIGNAL PATH AUDIO G 16 SIGNAL \square REC ΡВ

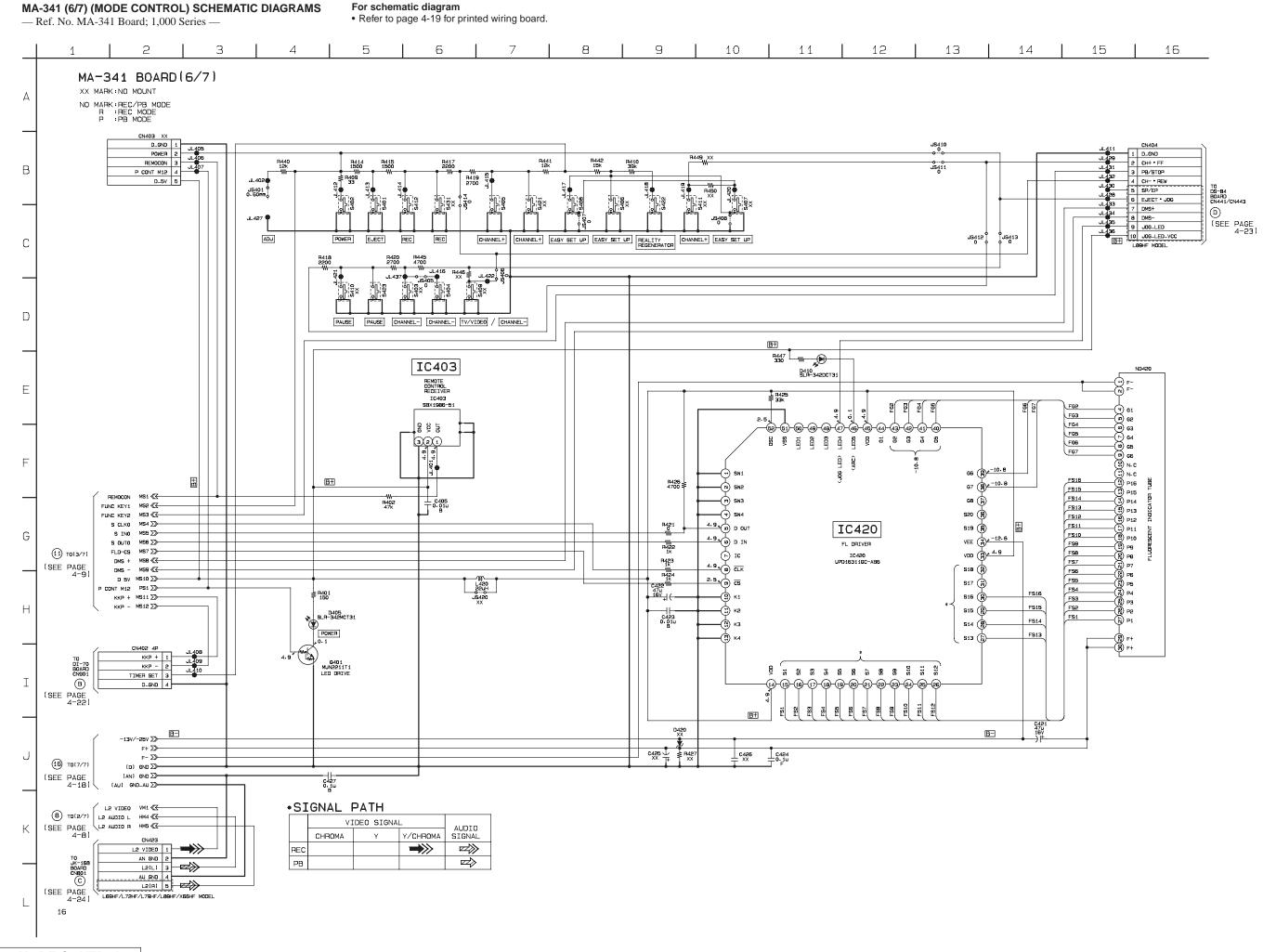
AUDIO PROCESS MA-341(4/7)

MA-341 (5/7) (TUNER) SCHEMATIC DIAGRAMS For schematic diagram — Ref. No. MA-341 Board; 1,000 Series — • Refer to page 4-19 for printed wiring board. 2 8 9 10 1 1 12 | 13 15 16 | 17 18 L69HF/L72HF/L79HF/L89HF/X66HF MODE MA-341 BOARD(5/7) TU700 BTF-3MA412 VHF/UHF VHF/UHF XX MARK:NO MOUNT А •SIGNAL PATH AUDIO SIGNAL CHROMA Y/CHROMA **→**>>> □>>>> \bowtie В \Rightarrow JS701 0.60mm 4 A B 43 A2 E4 48 A2 С D =>>> (SEE PAGE 4-8) + C712 100u 16V Ε R706 47**0**k BŦ B+ (15) TO(7/7) (SEE PAGE 4-18) F L69HF/L72HF/L79HF/L89HF/X66HF MODE TV/VTR TS1 ∑> PLL DATA TS3 ∑>-PLL ENABLE TS4 ∑>-TU AFT TS5 ≪ SAP TS6 ≪ STEREO TS7 ≪ (13) TO(3/7) G (SEE PAGE 4-9) F MONO TSB ∑> MAIN/SAP TS9 ∑> TA MUTE TS10 ∑>

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.

(7) TO(2/7) TO AUDIO L HT: (7) TO AUDIO R HT2 (7) TO AUDIO R HT3 (7) T



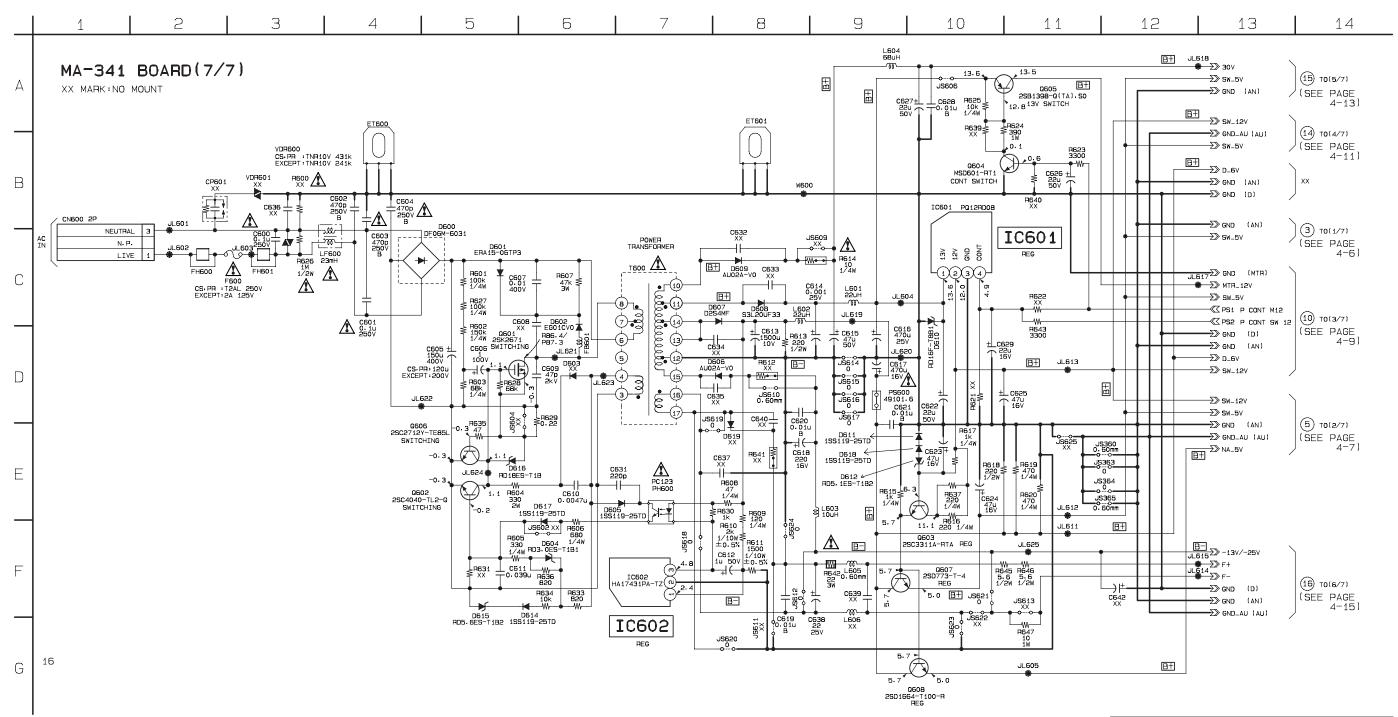
MODE CONTROL MA-341(6/7)

MA-341 (7/7) (POWER SUPPLY) SCHEMATIC DIAGRAMS

For schematic diagram

— Ref. No. MA-341 Board; 1,000 Series —

Refer to page 4-19 for printed wiring board.



Note: The components identified by mark △ or dotted line with mark △ are critical for safety.

Replace only with part number specified.

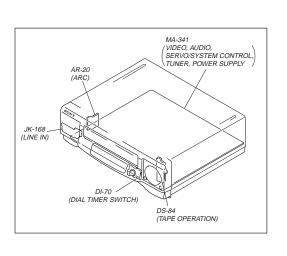
DI-70 (DIAL TIMER SWITCH) PRINTED WIRING BOARD

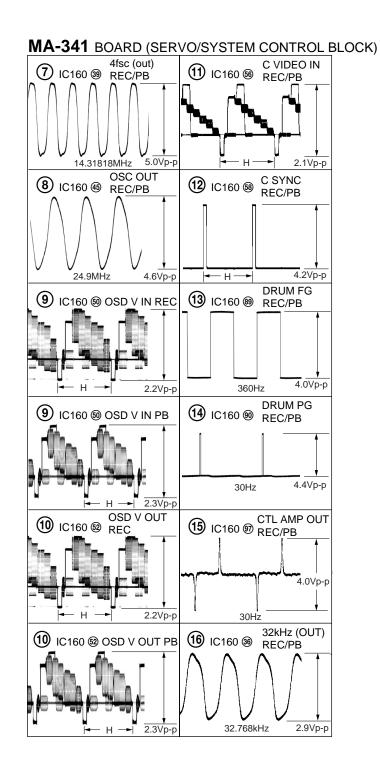
-Ref. No. DI-70 Board; 2,000 Series -

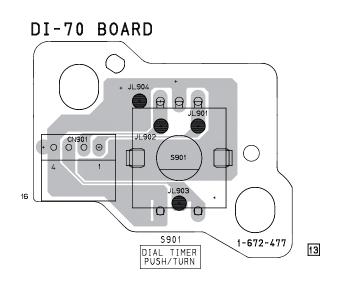
There are few cases that the part printed on this diagram isn't mounted in this model.

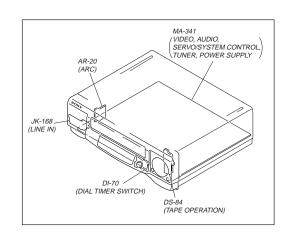
MA-341 BOARD

CN101 CN102 CN103 CN104 CN161 CN260 CN270 CN301 CN302 CN402 CN404 CN423 CN600	H-9 F-3 B-6 B-12 A-13 I-10 I-11 G-12 G-12 B-1 B-1 I-12	IC101 IC160 IC161 IC162 IC201 IC260 IC331 IC360 IC403 IC420 IC601 IC602	A-4 C-10 C-12 C-12 F-10 H-10 G-11 J-9 A-5 A-7 B-2 E-1
D103 D109	D-7 G-4	PH101 PH102 PH600	C-9 C-6 F-1
D161 D162 D301 D302 D405 D410 D561 D600 D601 D602 D604 D605 D606 D607 D608 D609 D611 D612 D614 D612 D614 D615 D616 D616	D-8 D-8 I-6 I-6 A-13 A-10 I-4 H-1 G-3 F-2 G-2 F-1 E-1 E-2 E-2 B-2 C-3 G-2 H-2 G-1	0101 0102 0103 0201 0202 0203 0301 0302 0303 0380 0381 0382 0401 0500 0502 0502 0601 0602 0603 0604	E-3 E-11 E-7 H-9 G-8 F-9 I-6 G-11 G-12 J-8 J-7 J-8 A-13 C-9 C-8 I-6 G-2 H-1 C-3 B-1 C-1 G-2
D618 D702	C-3 H-13	Q607 Q608	B-3 F-6



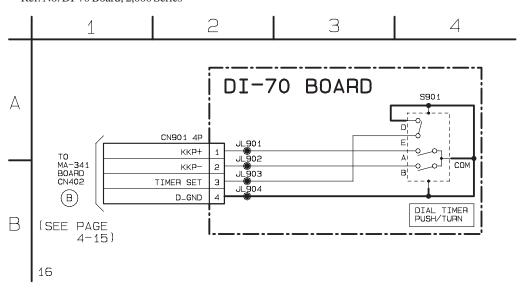






DI-70 (DIAL TIMER SWITCH) SCHEMATIC DIAGRAMS

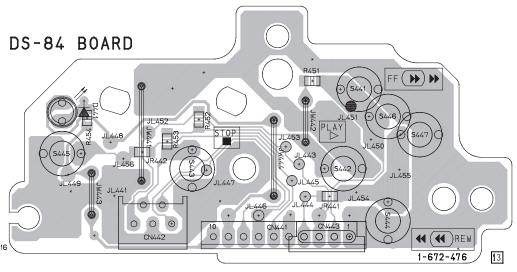
-Ref. No. DI-70 Board; 2,000 Series -

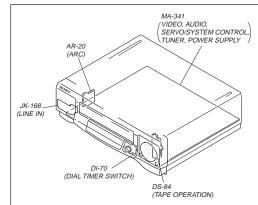


DS-84 (TAPE OPERATION) PRINTED WIRING BOARD

-Ref. No. DS-84 Board; 3,000 Series -

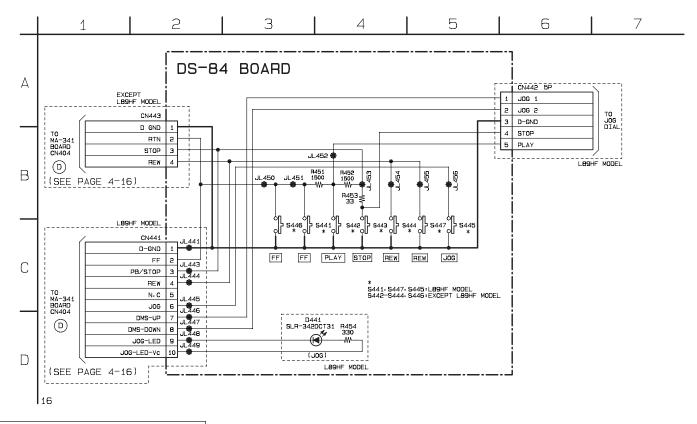
There are few cases that the part printed on this diagram isn't mounted in this model.





DS-84 (TAPE OPERATION) SCHEMATIC DIAGRAMS

- Ref. No. DS-84 Board; 3,000 Series -



4-23

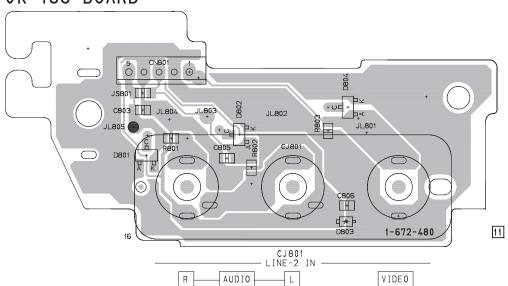
TAPE OPERATION/LINE IN DS-84/JK-168

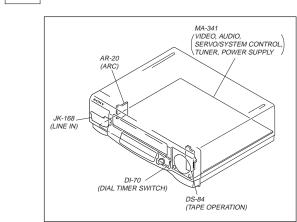
JK-168 (LINE IN) PRINTED WIRING BOARD

- Ref. No. JK-168 Board; 4,000 Series -

There are few cases that the part printed on this diagram isn't mounted in this model.

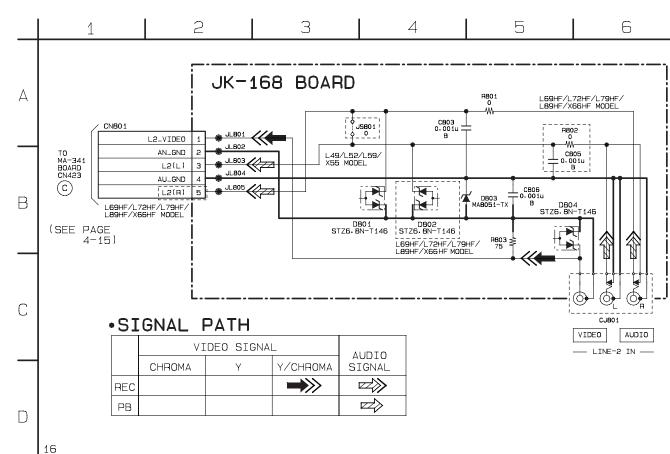
JK-168 BOARD





JK-168 (LINE IN) SCHEMATIC DIAGRAMS

-Ref. No. JK-168 Board; 4,000 Series -

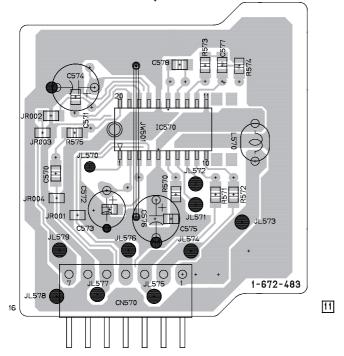


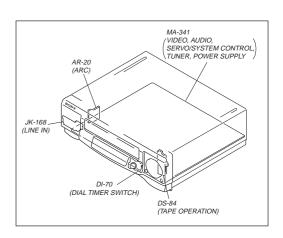
AR-20 (ARC) PRINTED WIRING BOARD

—Ref. No. AR-20 Boar d; 5,000 Ser ies —

There are few cases that the part printed on this diagram isn't mounted in this model.

AR-20 BOARD (SLV-L52/L72HF/L89HF MODEL)





AR-20 (ARC) SCHEMATIC DIAGRAMS

-Ref. No. AR-20 Boar d; 5,000 Ser ies -

