SLV-L49/L52/L59/L69HF/L72HF/L79HF/L89HF/X55/X66HF
RMT-V267/V268

SERVICE MANUAL

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

Photo: SLV-L89HF
RMT-V267

VHS

S MECHANISM

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
Tape speed	SP : 33.35 mm/s 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
LINE OUT	VIDEO OUT, phono jack (1) 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

Timer section

Clock	Quartz locked
Timer indication	12 – hour cycle
Timer setting	8 programs per month (max.)
Power back-up	Built-in self-charging capacitor 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)
Operating temperature	5°C to 40°C (41°F to 104°F)
Storage temperature	-20°C to 60°C (-4°F to 140°F)
Dimensions	Approx. 335 × 96 × 289 mm (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

MICROFILM

VIDEO CASSETTE RECORDER

SONY®

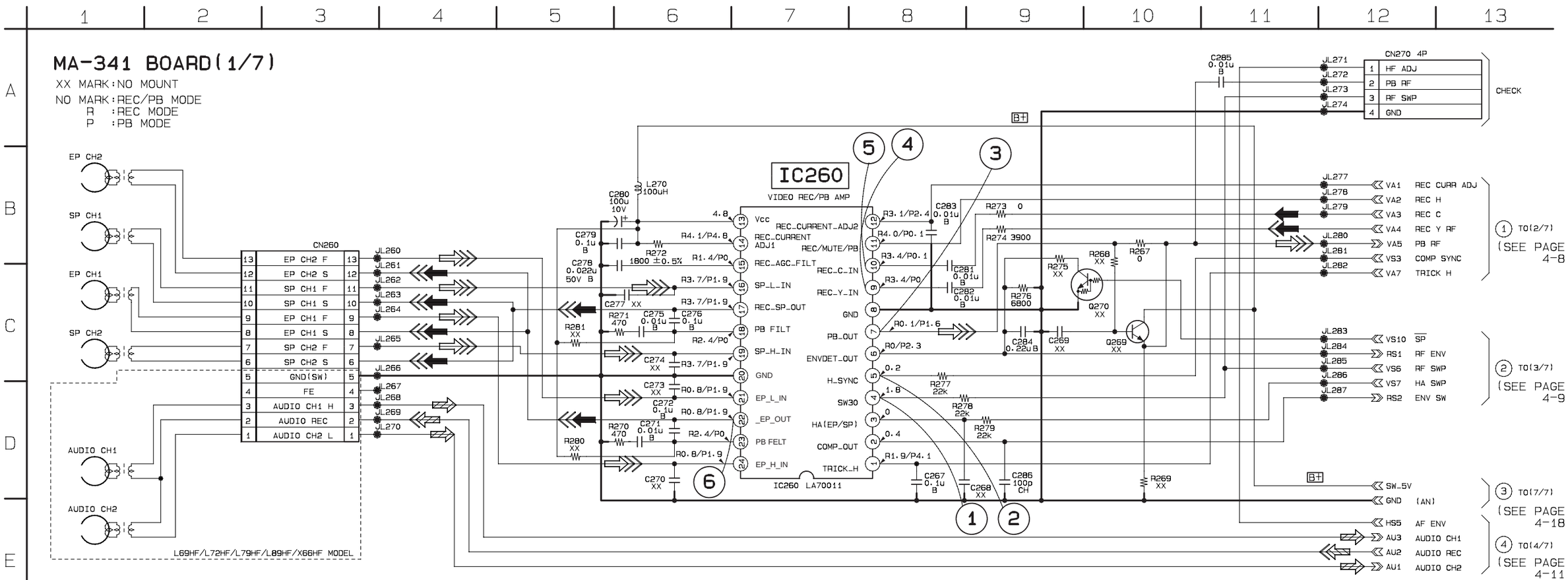
4-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

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.



•SIGNAL PATH

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA	
REC	➡	➡	➡	⇨
PB			⇨	⇨

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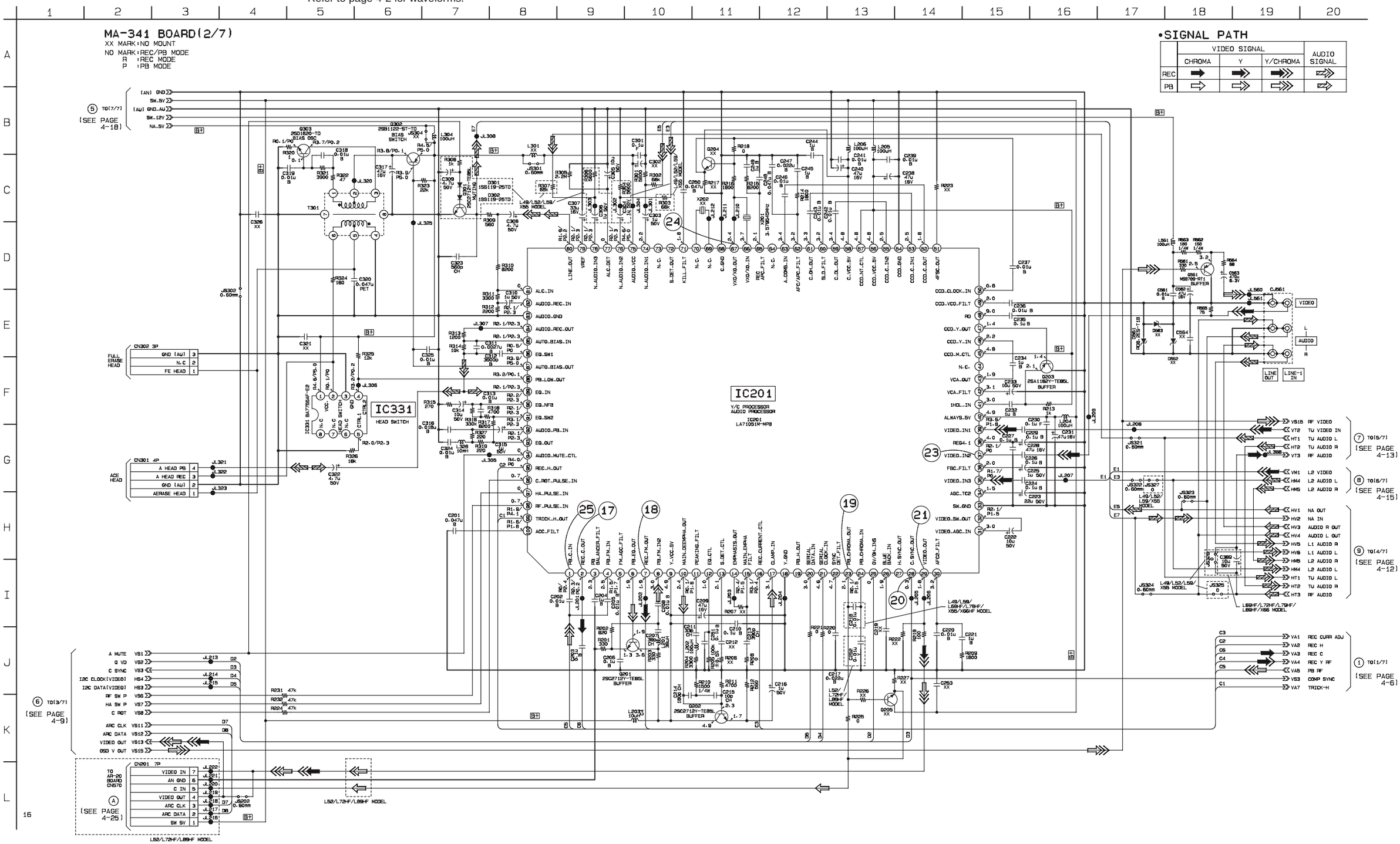
MA-341 (2/7) (AUDIO) SCHEMATIC DIAGRAMS

— 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.

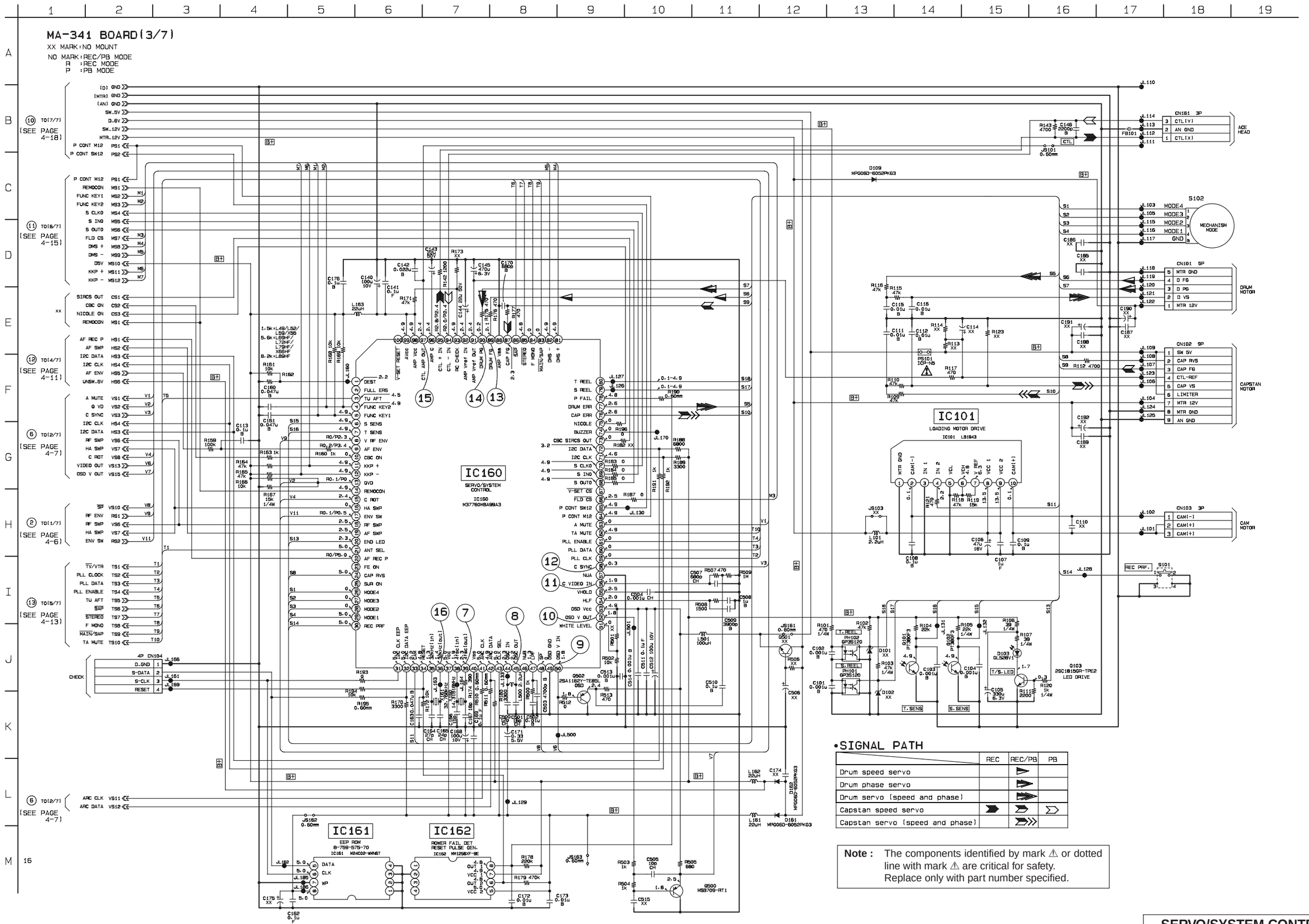


MA-341 (3/7) (SERVO/SYSTEM CONTROL) SCHEMATIC DIAGRAMS

— 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.



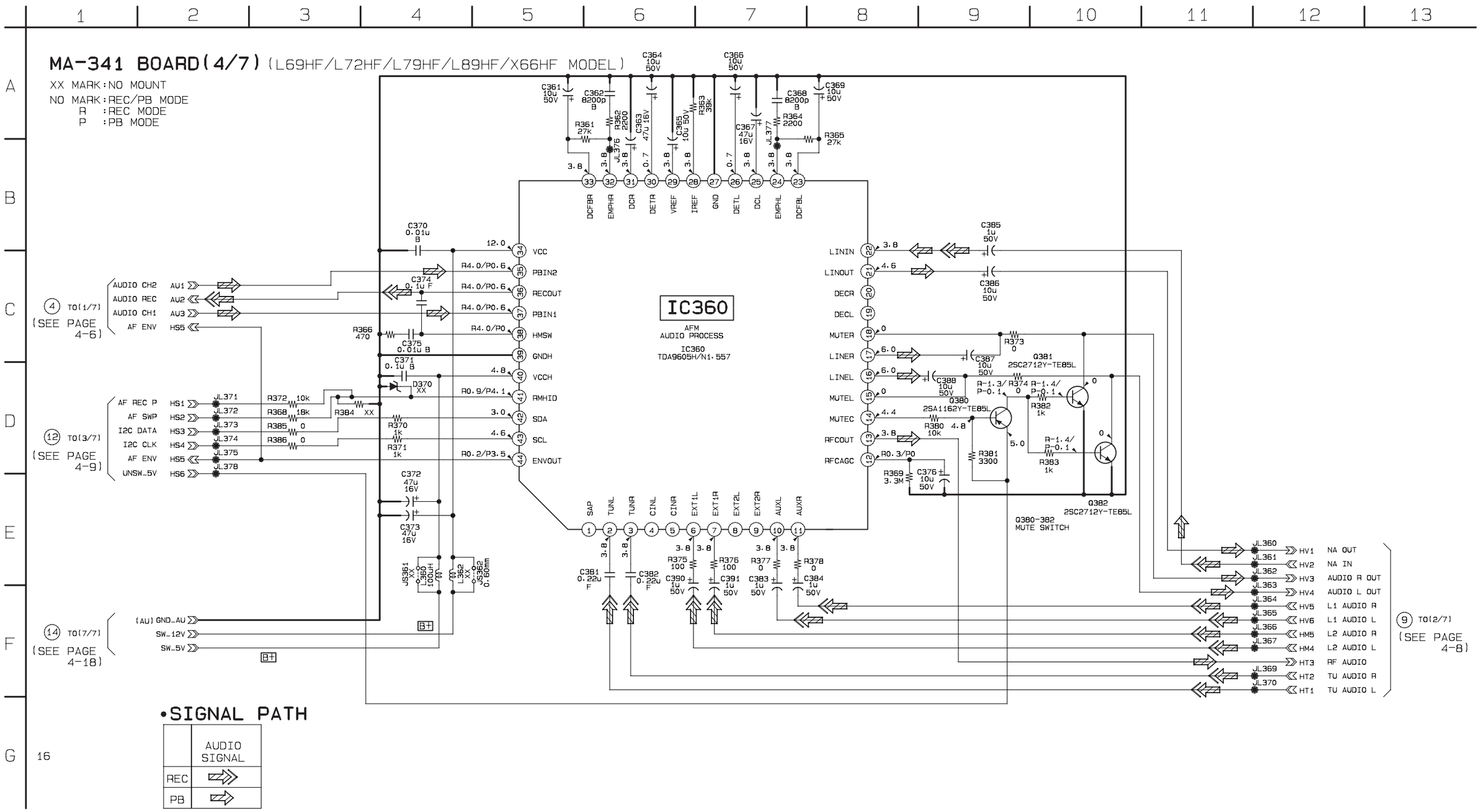
•SIGNAL PATH

	REC	REC/PB	PB
Drum speed servo		▶	
Drum phase servo		▶▶	
Drum servo (speed and phase)		▶▶	
Capstan speed servo	▶	▶	▷
Capstan servo (speed and phase)		▶▶	

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

MA-341 (4/7) (AUDIO PROCESS) SCHEMATIC DIAGRAMS
— Ref. No. MA-341 Board; 1,000 Series —

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

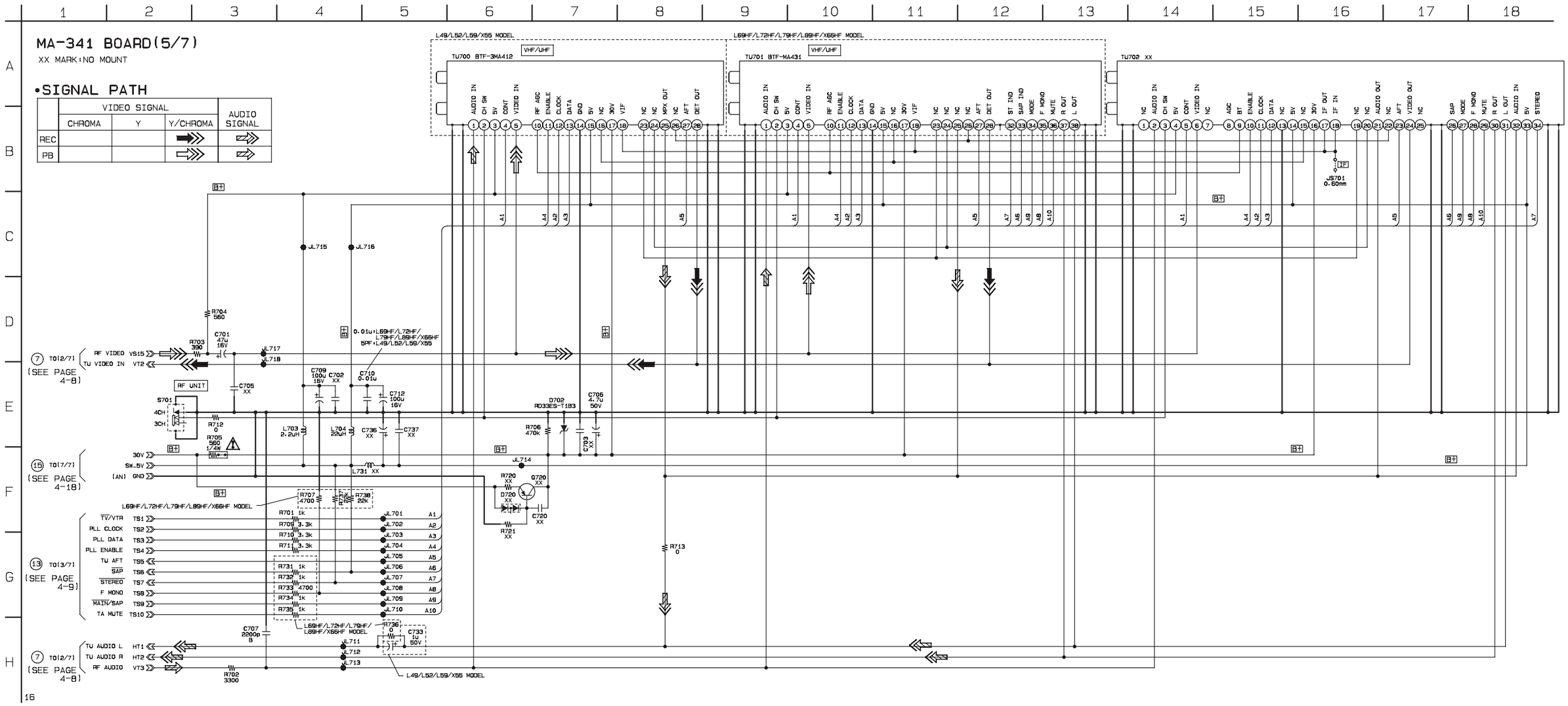


MA-341 (5/7) (TUNER) SCHEMATIC DIAGRAMS

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

For schematic diagram

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



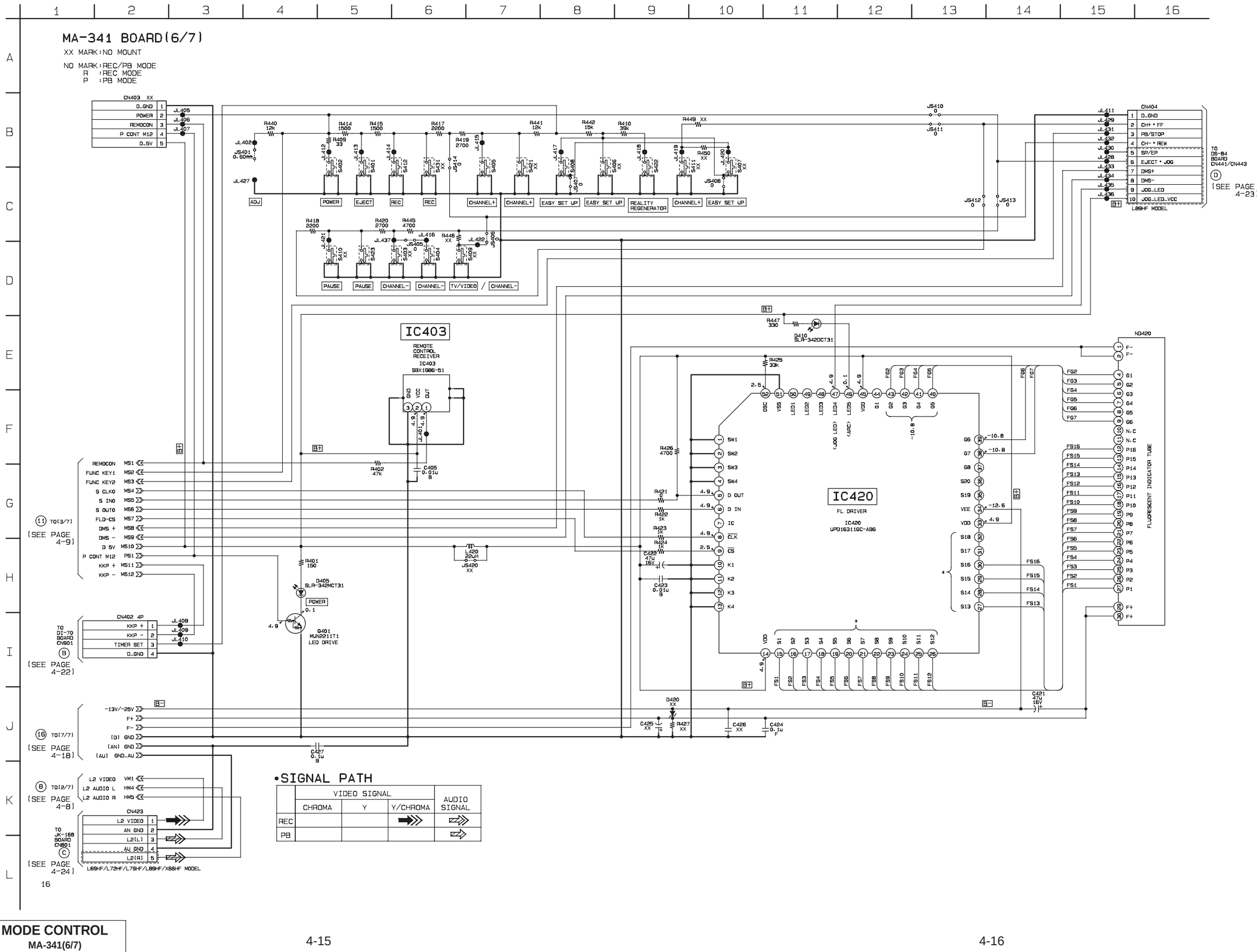
Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MA-341 (6/7) (MODE CONTROL) SCHEMATIC DIAGRAMS

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

For schematic diagram

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

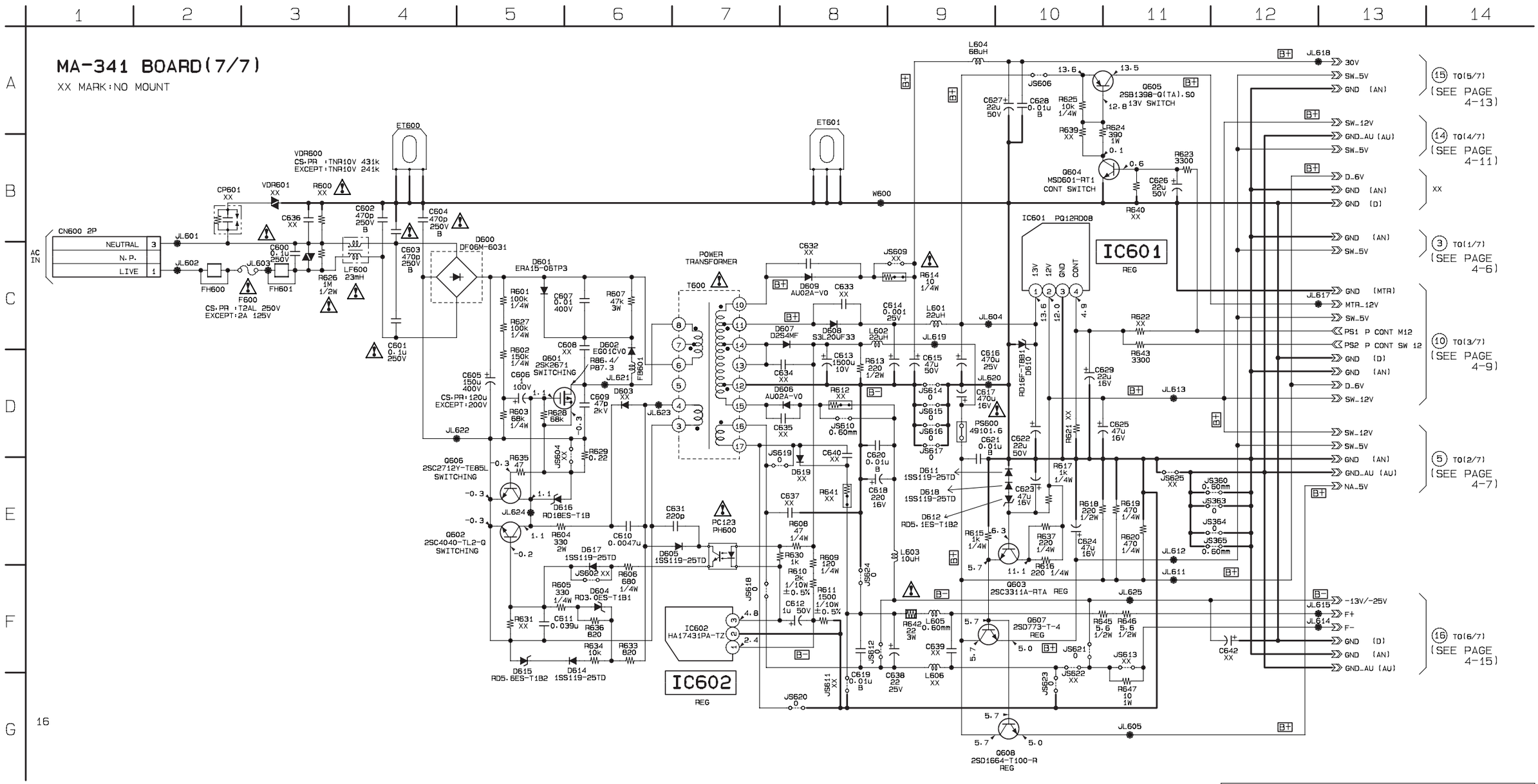


•SIGNAL PATH

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA	
REC			⇶	⇉
PB				⇉

MA-341 (7/7) (POWER SUPPLY) SCHEMATIC DIAGRAMS
— Ref. No. MA-341 Board; 1,000 Series —

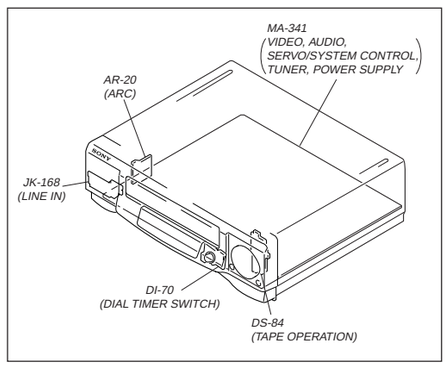
For schematic diagram
• Refer to page 4-19 for printed wiring board.



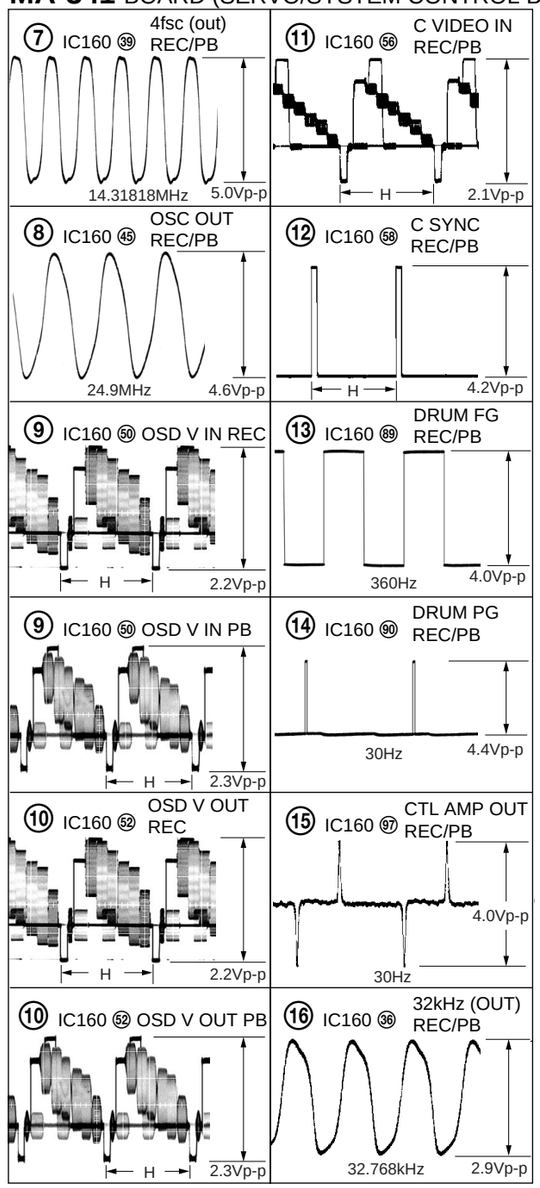
Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MA-341 BOARD

CN101	H-9	IC101	A-4
CN102	F-3	IC160	C-10
CN103	B-6	IC161	C-12
CN104	B-12	IC162	C-12
CN161	A-13	IC201	F-10
CN260	I-10	IC260	H-10
CN270	I-11	IC331	G-11
CN301	G-12	IC360	J-9
CN302	G-12	IC403	A-5
CN402	B-1	IC420	A-7
CN404	B-1	IC601	B-2
CN423	I-12	IC602	E-1
CN600	I-3		
		PH101	C-9
D103	D-7	PH102	C-6
D109	G-4	PH600	F-1
D161	D-8		
D162	D-8	Q101	E-3
D301	I-6	Q102	E-11
D302	I-6	Q103	E-7
D405	A-13	Q201	H-9
D410	A-10	Q202	G-8
D561	I-4	Q203	F-9
D600	H-1	Q301	I-6
D601	G-3	Q302	G-11
D602	F-2	Q303	G-12
D604	G-2	Q380	J-8
D605	F-1	Q381	J-7
D606	D-1	Q382	J-8
D607	E-1	Q401	A-13
D608	E-2	Q500	C-9
D609	E-2	Q502	C-8
D610	B-2	Q561	I-6
D611	C-3	Q601	G-2
D612	C-3	Q602	H-1
D614	G-2	Q603	C-3
D615	H-2	Q604	B-1
D616	G-2	Q605	C-1
D617	G-1	Q606	G-2
D618	C-3	Q607	B-3
D702	H-13	Q608	F-6



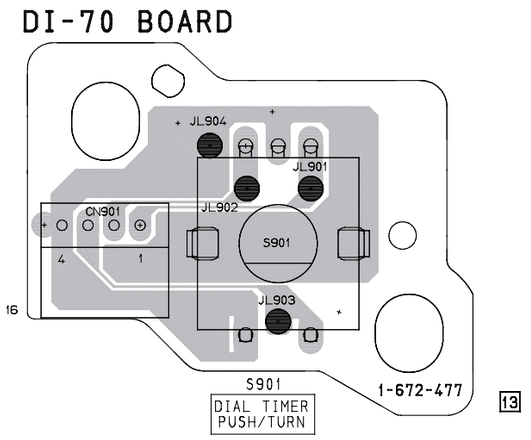
MA-341 BOARD (SERVO/SYSTEM CONTROL BLOCK)

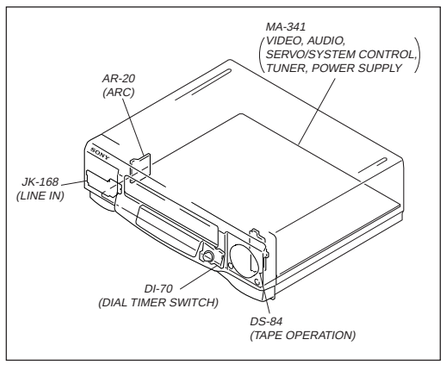


DI-70 (DIAL TIMER SWITCH) PRINTED WIRING BOARD

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

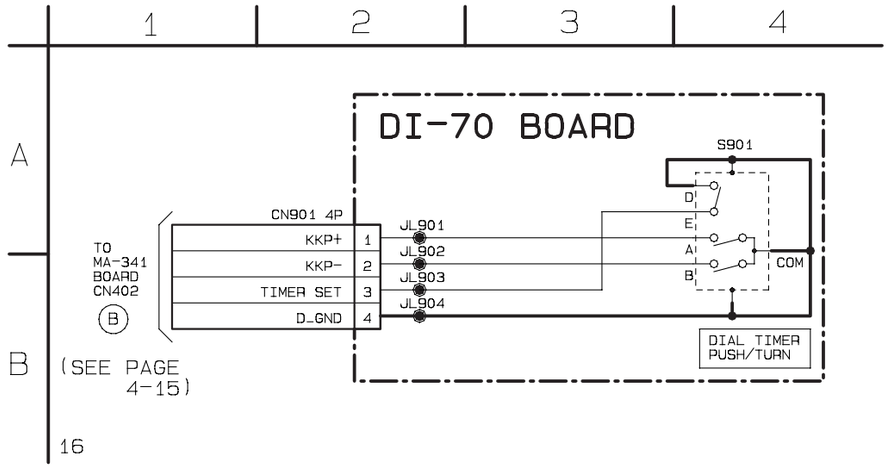
There are few cases that the part printed on this diagram isn't mounted in this model.





DI-70 (DIAL TIMER SWITCH) SCHEMATIC DIAGRAMS

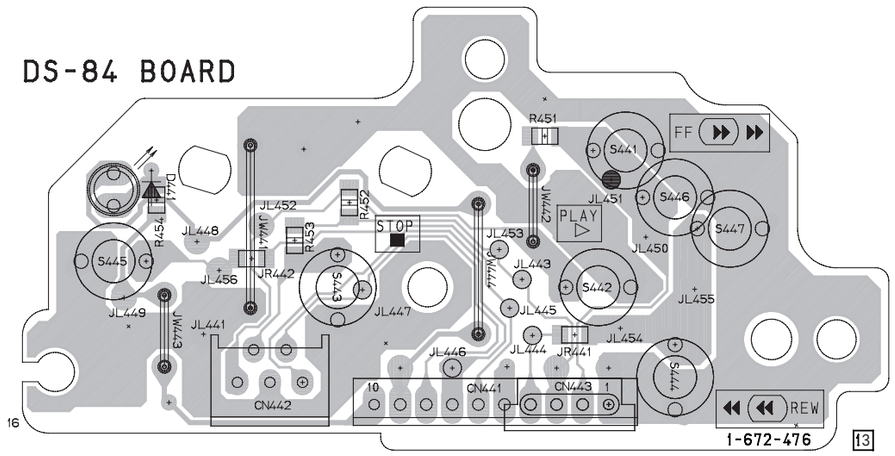
— Ref. No. DI-70 Board; 2,000 Series —

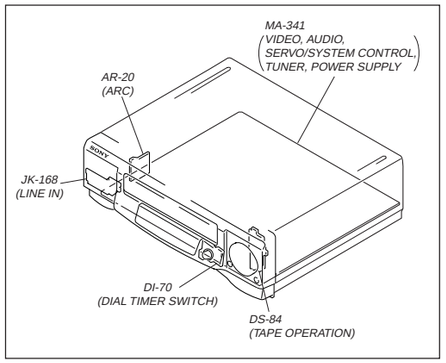


DS-84 (TAPE OPERATION) PRINTED WIRING BOARD

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

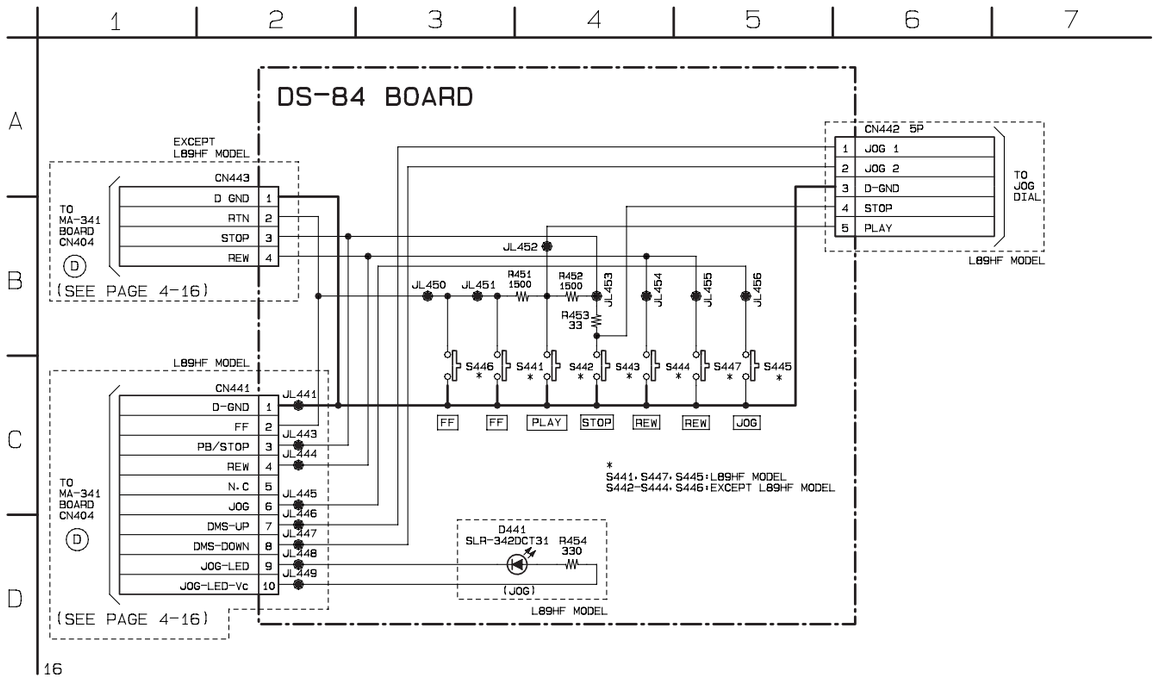
There are few cases that the part printed on this diagram isn't mounted in this model.





DS-84 (TAPE OPERATION) SCHEMATIC DIAGRAMS

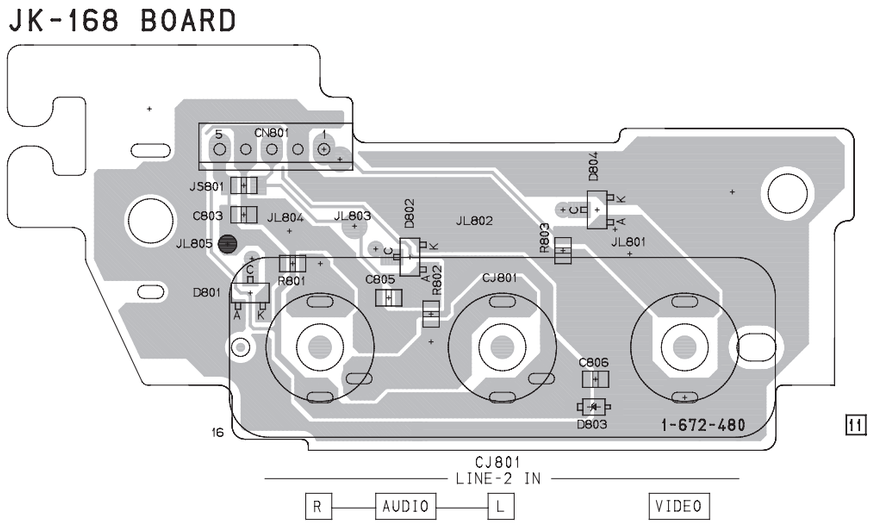
— Ref. No. DS-84 Board; 3,000 Series —

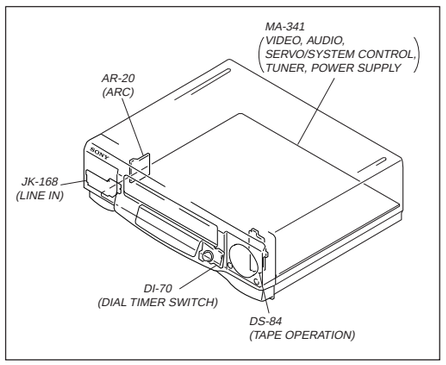


JK-168 (LINE IN) PRINTED WIRING BOARD

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

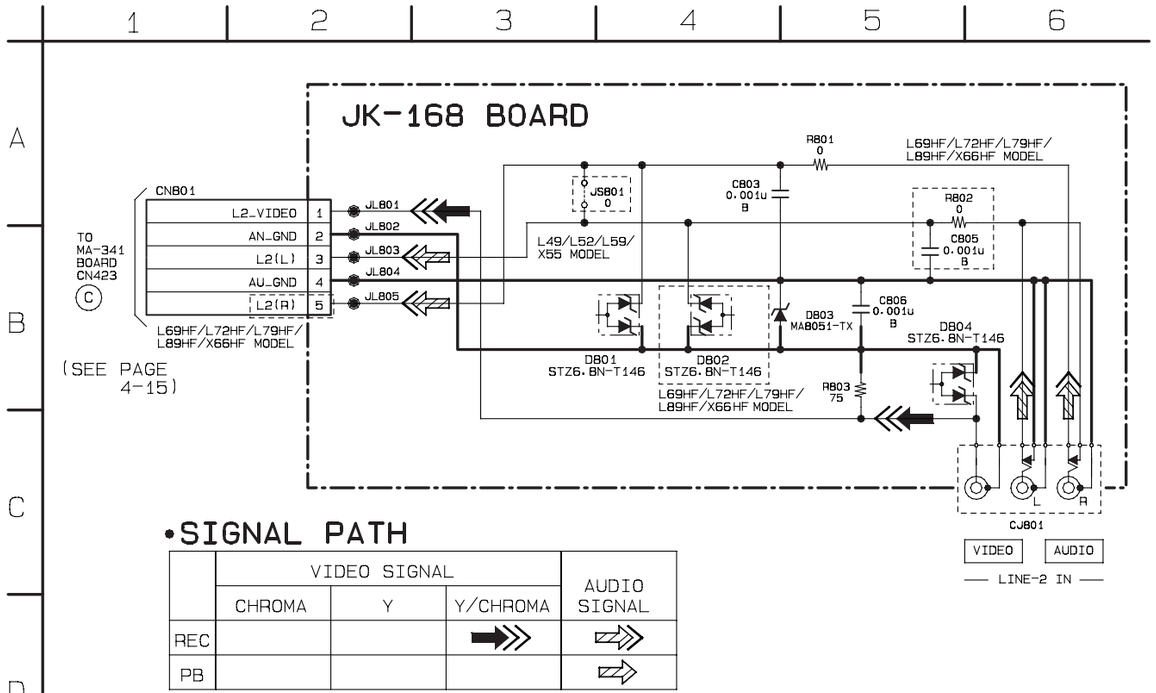
There are few cases that the part printed on this diagram isn't mounted in this model.





JK-168 (LINE IN) SCHEMATIC DIAGRAMS

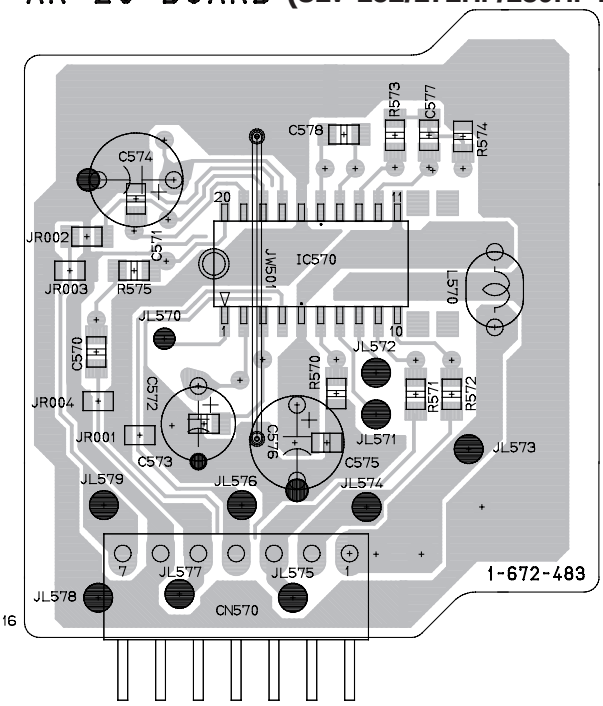
— Ref. No. JK-168 Board; 4,000 Series —

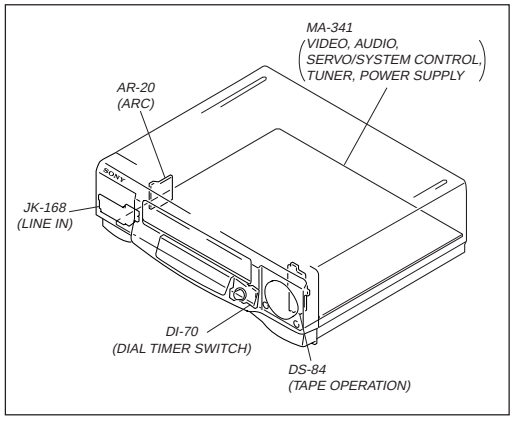


AR-20 (ARC) PRINTED WIRING BOARD
— Ref. No. AR-20 Board; 5,000 Series —

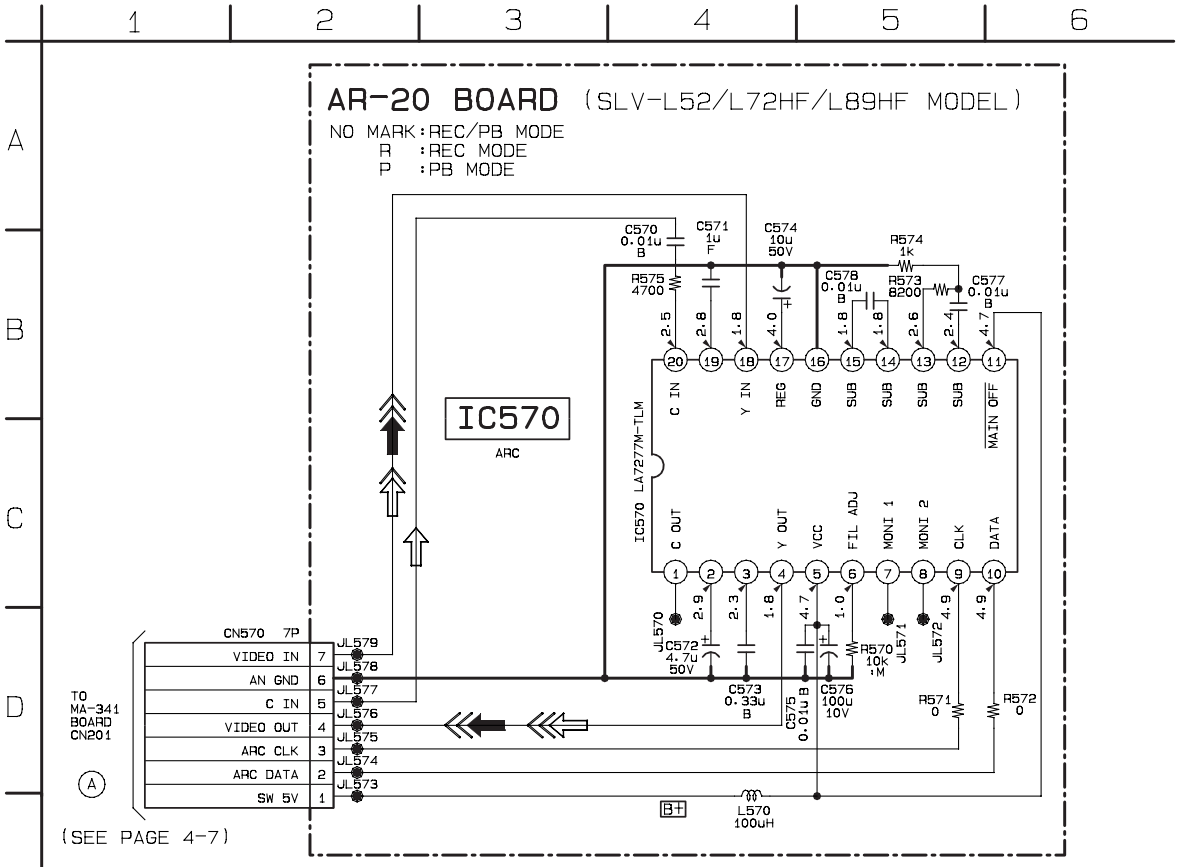
There are few cases that the part printed on this diagram isn't mounted in this model.

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





AR-20 (ARC) SCHEMATIC DIAGRAMS
— Ref. No. AR-20 Board; 5,000 Series —



•SIGNAL PATH

	VIDEO SIGNAL		
	CHROMA	Y	Y/CHROMA
REC			⇛
PB	⇨	⇨	⇛

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