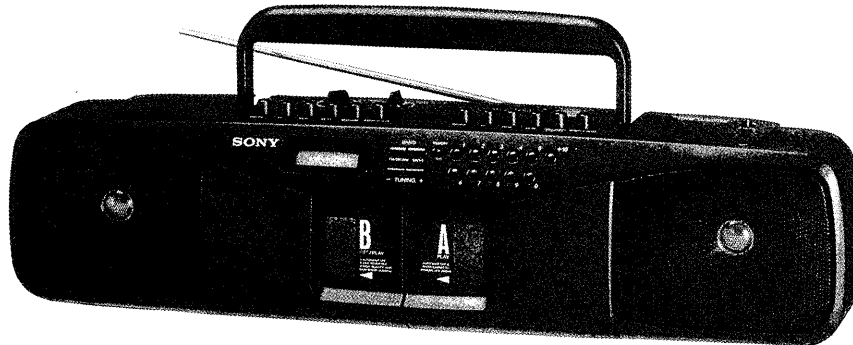


CFS-W504S

SERVICE MANUAL

E Model



Model Name Using Similar Mechanism	CFS-W304S
Tape Transport Mechanism Type	MF-W304-64

SPECIFICATIONS

Tuner frequency range

Sales area	FM	MW	SW
EA model	87.6–107MHz	531–1602kHz (9kHz STEP)	49m 5.85–6.35MHz 41m 7.00–7.50MHz 31m 9.40–9.90MHz 25m 11.60–12.10MHz
E, UAE model	87.6–108MHz	530–1610kHz (10kHz STEP)	19m 15.10–15.60MHz 16m 17.55–18.05MHz 13m 21.40–21.90MHz

IF	FM	MW/SW
	10.7MHz	450kHz

Scan step	FM: 50kHz SW: 5kHz MW: 9kHz/10kHz adjustable
Antennas	FM/SW: Telescopic antenna MW: Built-in ferrite bar antenna
Recording system	4-track 2-channel stereo
Frequency response	80Hz-10,000Hz
speaker	10cm (4in.) dia. full range×2
Output	Headphones jack (stereo minijack) for 16-68 ohm impedance headphones
Maximum power output	4.6W (2.3W+2.3W)
Power requirements	Requirements (supplied AC power cord) 110–120V, 220–240V AC, adjustable 50/60Hz 9V DC, six R14 (size C) batteries
Power consumption	14W

Battery life

Batteries	FM recording
Sony SUM-2 (NS)	Approx. 3.5 hours
Sony AM2 alkaline	Approx. 7 hours

For tuner memory:	Approx. 1 year
Dimensions	Approx. 566×151×153.5mm (w/h/d) (22 ³ / ₈ ×6×6 ¹ / ₈ inches) incl. projecting parts and controls, not incl. handle
Weight	Approx. 3kg (6 lb 10 oz) incl. batteries
Accessory supplied	AC power cord (1)

Design and specifications subject to change without notice.

FEATURES

- Memory preset tuning: 20 stations can be stored in total.
- The normal/high speed dubbing with the synchronized starting system.

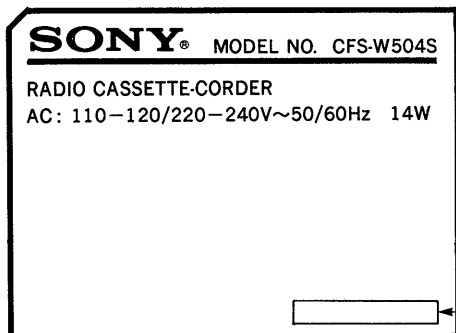
- EA : Saudi Arabia model
- UAE : United Arab Emirates model

RADIO CASSETTE-CORDER
SONY®

MODEL IDENTIFICATION**—Model Number Portion—**

E model: Carved on rear cabinet
EA, UAE model: Model number label

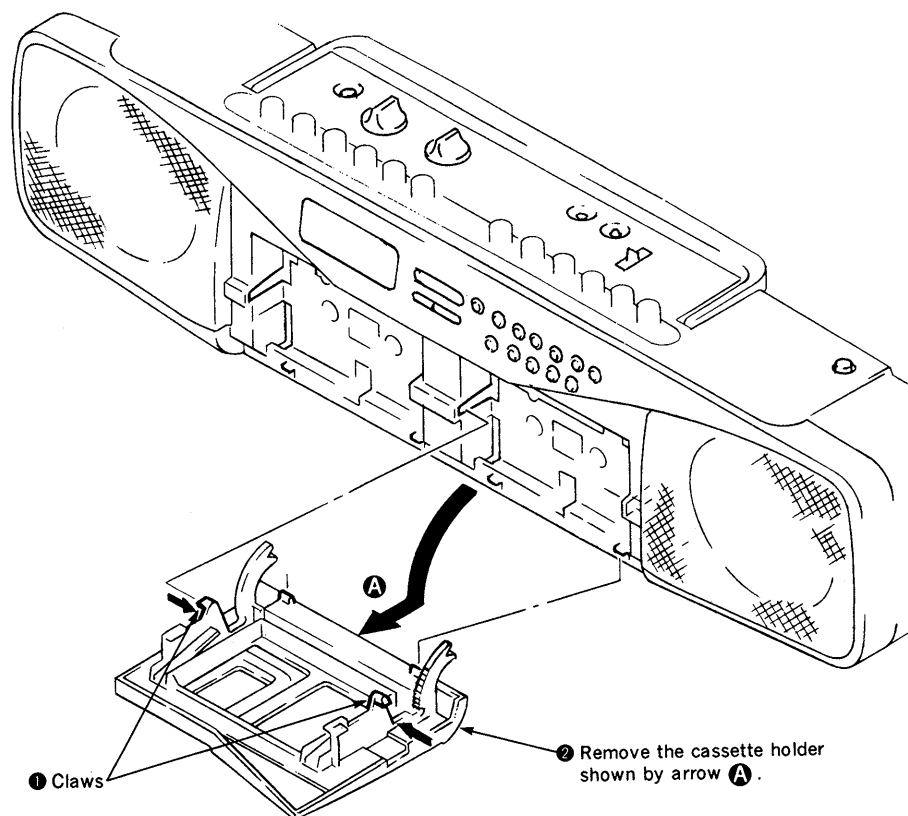
- EA : Saudi Arabia model
- UAE : United Arab Emirates model

**SAFETY-RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

**SECTION 1
DISASSEMBLY**

Note : Follow the disassembly procedure in the numerical order given.

REMOVAL OF CASSETTE HOLDER

SECTION 2 MECHANICAL ADJUSTMENTS

PRECAUTION

- Clean the following parts with a denatured-alcohol-moistened swab :

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
- Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- Power supply voltage: 9V dc.

Torque Measurement

Torque	Torque meter	Meter reading
Forward	CQ-102C	20–60g·cm (0.28–0.83 oz·inch)
Forward back tension	CQ-102C	2–6g·cm (0.028–0.083 oz·inch)
Reverse	CQ-102RC	20–60g·cm (0.28–0.83 oz·inch)
Reverse back tension	CQ-102RC	2–6g·cm (0.028–0.083 oz·inch)
Fast Forward	CQ-201B	more than 45g·cm (more than 0.62 oz·inch)
Rewind	CQ-201B	more than 45g·cm (more than 0.62 oz·inch)

Tape Tension Measurement

Mode	Meter	Meter Reading
Forward	CQ-403A	more than 70g (more than 2.47 oz)
Reverse	CQ-403R	

SECTION 3 ELECTRICAL ADJUSTMENTS

3-1. TAPE RECORDER SECTION

Standard Output Level

Output terminal	Speaker	Headphones
load impedance	3.2Ω	32Ω
output signal level	0.775V (0dB)	0.25V (–10dB)

Test Tape

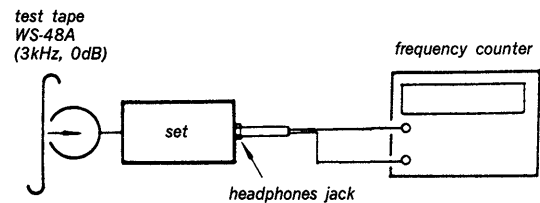
Type	Signal	Used for
WS-48A	3kHz, 0dB	tape speed adjustment

Tape Speed Adjustment **DECK A** **DECK B**

Procedure :

- Perform high speed adjustment before normal speed adjustment.

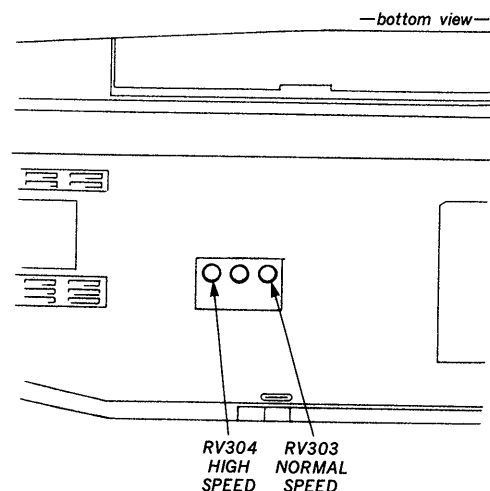
Mode : playback



Speed	S402 (HIGH SPEED)	Deck	Adjustment point	Frequency counter
High	ON	A	RV304	5,685–5,715Hz
		B	confirm	
Normal	OFF	A	RV303	2,970–3,000Hz
		B	confirm	

Frequency difference between the beginning and the end of the tape should be within $\pm 1.5\%$.

Adjustment Location :

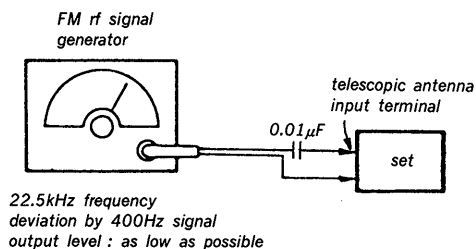


3-2. RADIO SECTION

● FM Section

Setting :

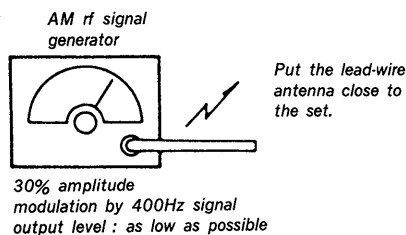
BAND (FM/SW/MW) selection button : FM



● MW Section

Setting :

BAND (FM/SW/MW) selection button : MW

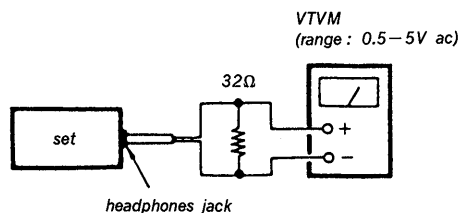
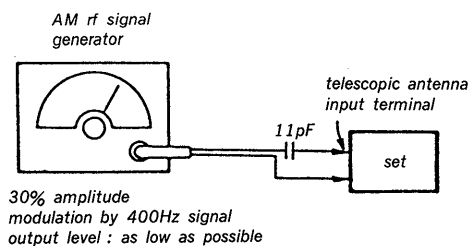


● SW Section

Setting :

BAND (FM/SW/MW) selection button : SW

BAND (SW1-7) selection button : SW1-4



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.
- Remove telescopic antenna in FM section adjustments.

FM FREQUENCY COVERAGE ADJUSTMENT

adjustment part	reading on digital voltmeter	frequency indicator
L3	$8 \pm 0.1V$	108MHz
confirm	$4.75 \pm 0.2V$	87.5MHz

FM TRACKING ADJUSTMENT

Adjust for a maximum reading on VTVM.

L2	98MHz
----	-------

AM IF ADJUSTMENT

Adjust for a maximum reading on VTVM.

T4	450kHz
----	--------

MW FREQUENCY COVERAGE ADJUSTMENT

adjustment part	reading on digital voltmeter	frequency indicator
T1	$1.8 \pm 0.1V$	531kHz
CT4	$8.2 \pm 0.2V$	1611kHz

MW TRACKING ADJUSTMENT

Adjust for a maximum reading on VTVM.

L5	CT3
621kHz	1404kHz

SW A FREQUENCY COVERAGE ADJUSTMENT

adjustment part	reading on digital voltmeter	frequency indicator
T3	$8.5 \pm 0.1V$	9.90MHz
confirm	$3.0 \pm 0.2V$	5.85MHz

SW A TRACKING ADJUSTMENT

Adjust for a maximum reading on VTVM.

L9	CT6
5.85MHz	9.90MHz

SW B FREQUENCY COVERAGE ADJUSTMENT

adjustment part	reading on digital voltmeter	frequency indicator
T2	$9.0 \pm 0.1V$	21.9MHz
confirm	$3.0 \pm 0.2V$	11.6MHz

SW B TRACKING ADJUSTMENT

Adjust for a maximum reading on VTVM.

L8	CT5
11.6MHz	21.9MHz

D-D Converter Frequency Adjustment**Setting :**

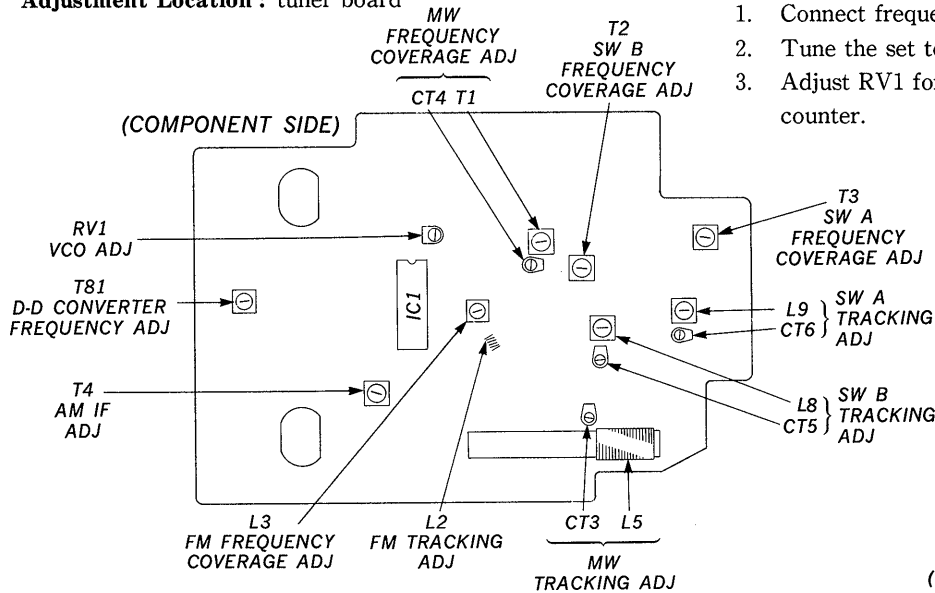
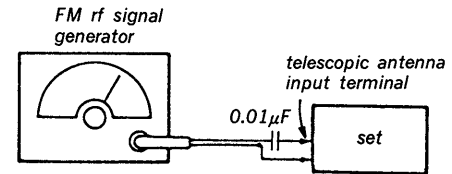
Band (FM/SW/MW) selection button : SW (9.9MHz)

Procedure :

1. Connect frequency counter ① as shown below.
2. Adjust T81 to gain the value of $2.85\text{MHz} \pm 20\text{kHz}$ at frequency counter ①.

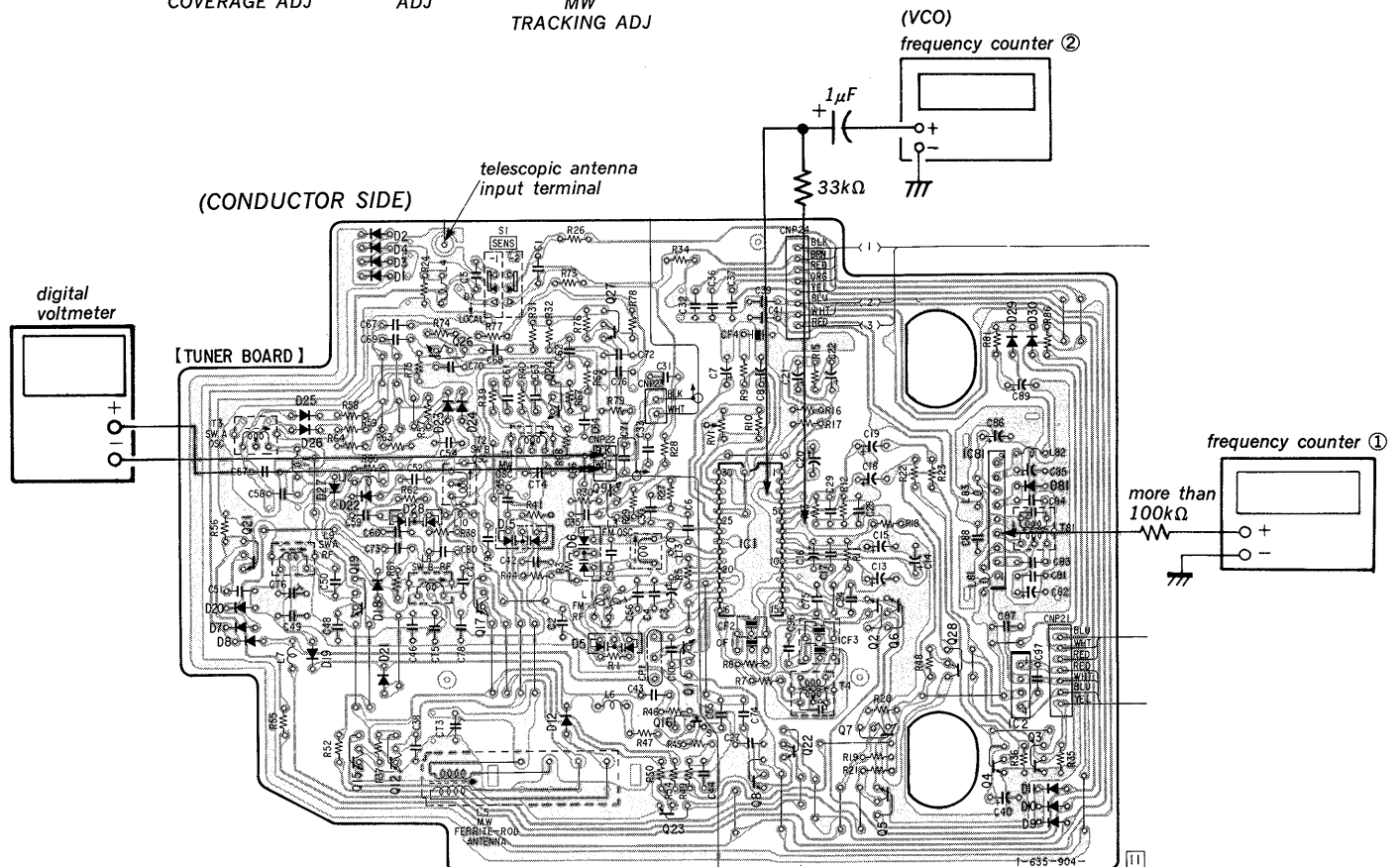
Note : Adjust with shield case attached.

Adjustment Location : tuner board

**VCO Adjustment****Procedure :**

Carrier frequency : 98MHz
Modulation : no modulation
Output level : 0.1V (100dB)

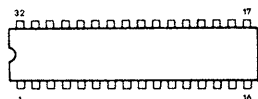
1. Connect frequency counter ② as shown below.
2. Tune the set to 98MHz.
3. Adjust RV1 for $76\text{kHz} \pm 500\text{Hz}$ reading on the frequency counter.



SECTION 4 DIAGRAMS

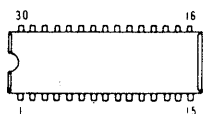
• Semiconductor Lead Layouts

BA3422S



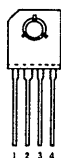
(TOP VIEW)

CXA1238S



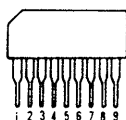
(TOP VIEW)

LA5004

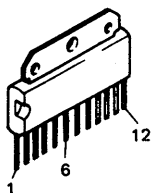
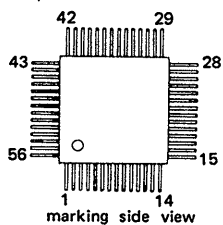
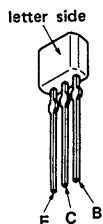
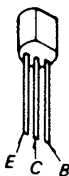


Marking side view

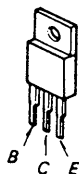
TA8148S



TA8207K

 μ PD1724GB-524-1A7DTA114ES
DTC114ES
DTC114YSDTC114TS
2SA1175-HFE
2SC2785-HFE
2SC2786-L
2SC2787-K2SA952-K2
2SC1815-GR
2SC2001-LK

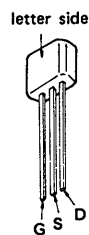
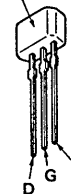
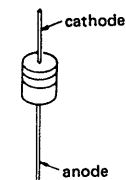
2SD1585-K



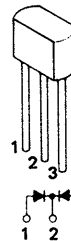
2SK105A-30



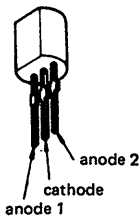
2SK193-E

2SK514-H
letter sideRB441Q
RD11ES-B1
RD6.8ES-B2
RD8.2ES-B2
1SS119
1SS168

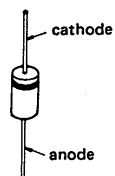
SVC203RA-V



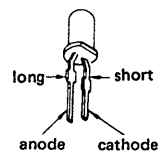
SVC342L-V



10E2



GL-3PR9

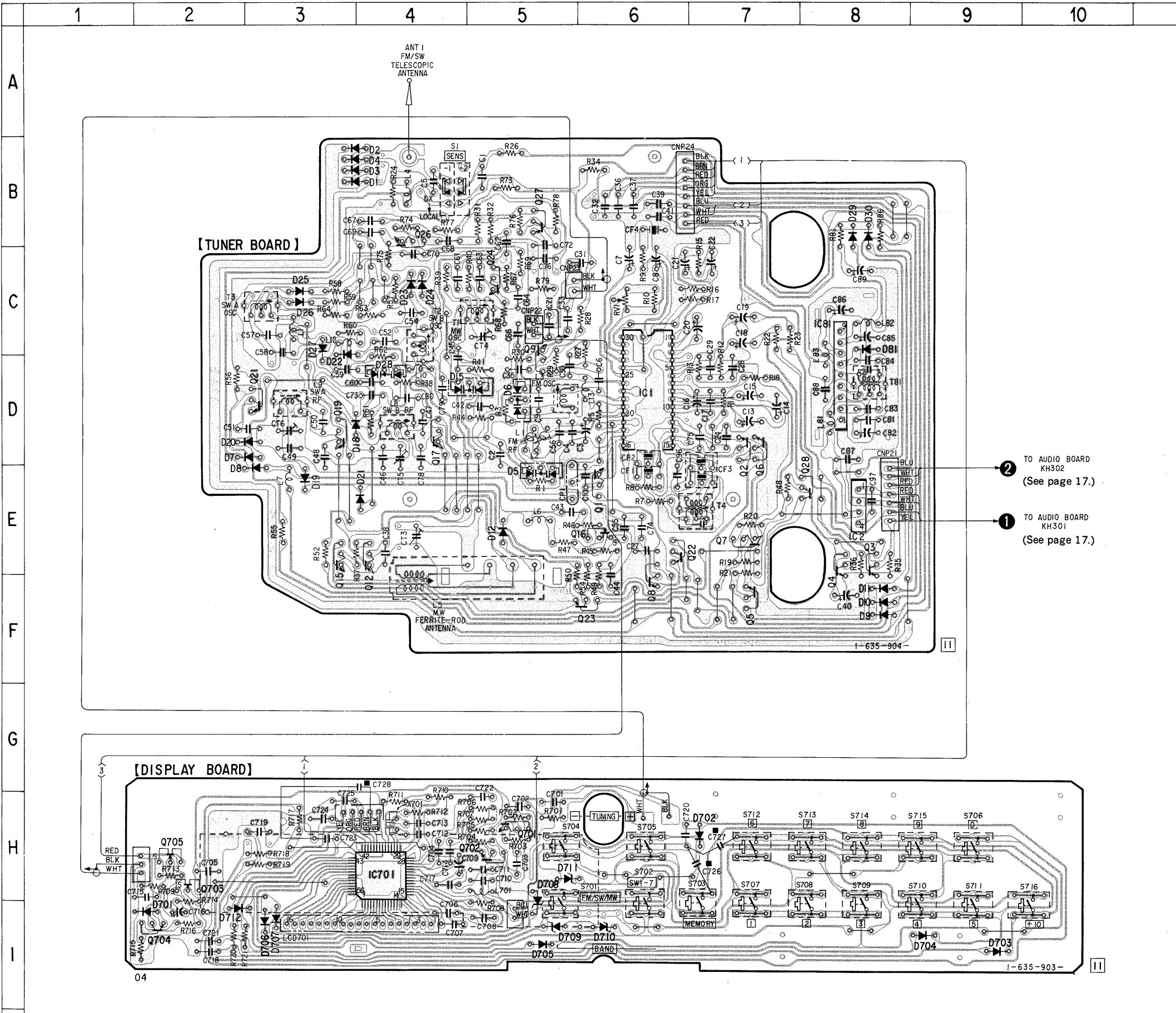


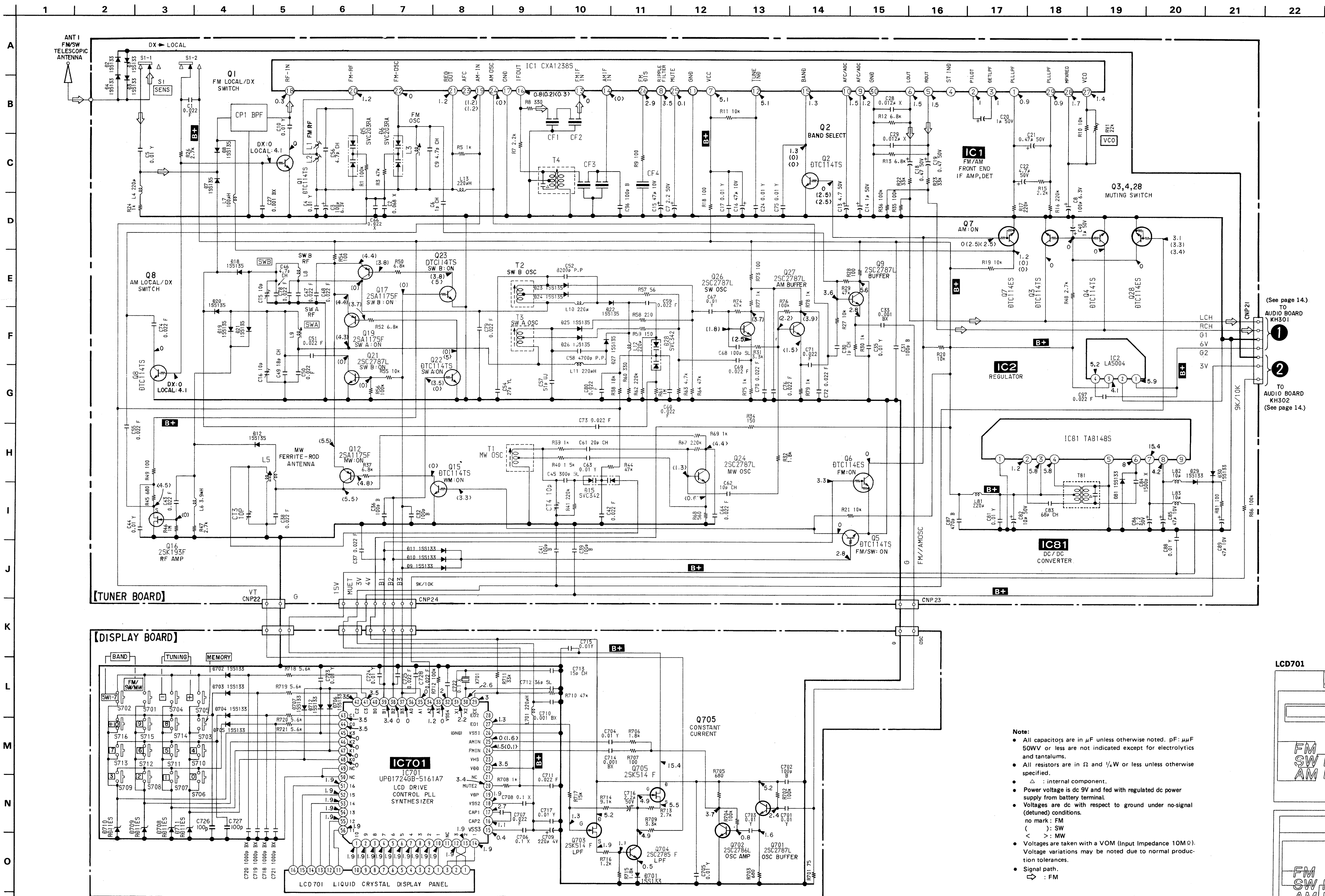
● Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D1	B-4	Q22	E-6
D2	B-4	Q23	F-6
D3	B-4	Q24	C-5
D4	B-4	Q26	B-4
D5	E-5	Q27	B-5
D6	D-5	Q28	E-8
D7	D-2	Q701	H-5
D8	E-3	Q702	H-5
D9	F-8	Q703	H-2
D10	F-8	Q704	I-2
D11	F-8	Q705	H-2
D12	E-5		
D15	D-4		
D18	D-3		
D19	E-3		
D20	D-2		
D21	E-4		
D22	D-3		
D23	C-4		
D24	C-4		
D25	C-3		
D26	C-3		
D27	C-3		
D28	D-4		
D29	B-8		
D30	B-8		
D81	C-8		
D701	I-2		
D702	H-7		
D703	I-9		
D704	I-9		
D705	I-5		
D706	I-3		
D707	I-3		
D708	I-5		
D709	I-5		
D710	I-6		
D711	H-5		
D712	I-2		
IC1	D-6		
IC2	E-8		
IC81	C-8		
IC701	H-4		
Q1	E-6		
Q2	D-7		
Q3	E-8		
Q4	E-8		
Q5	F-7		
Q6	D-7		
Q7	E-7		
Q8	F-6		
Q9	D-5		
Q12	E-4		
Q15	E-3		
Q16	E-6		
Q17	D-4		
Q19	D-3		
Q21	D-3		

Note:
 ● — : parts extracted from the component side.
 ● ■ : parts mounted on the conductor side.

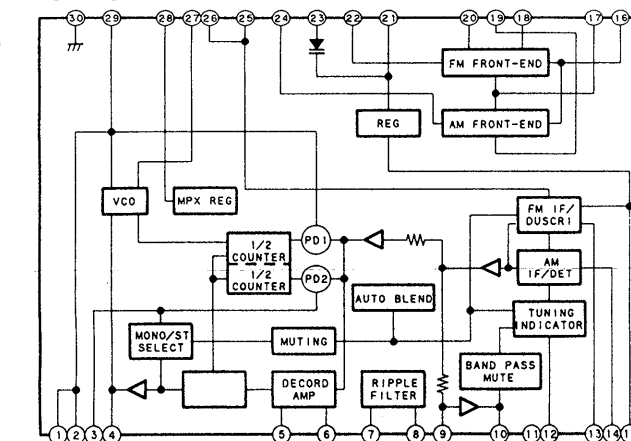
4-1. PRINTED WIRING BOARDS —TUNER SECTION—



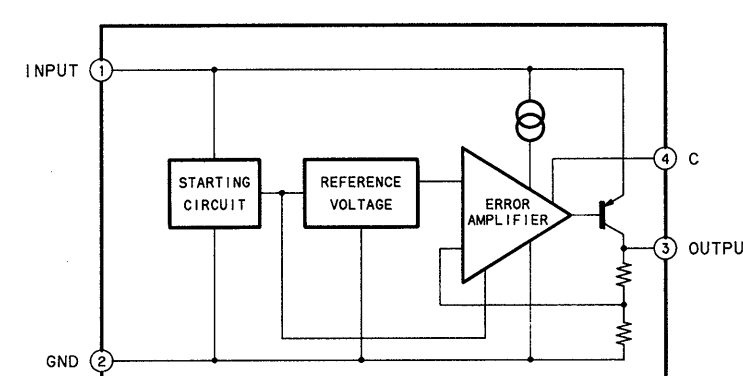


• IC Block Diagrams

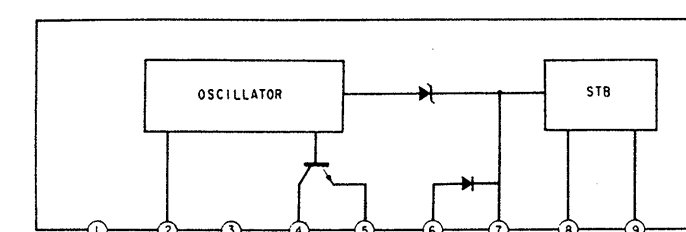
IC1 CX1238S



IC2 LA5004



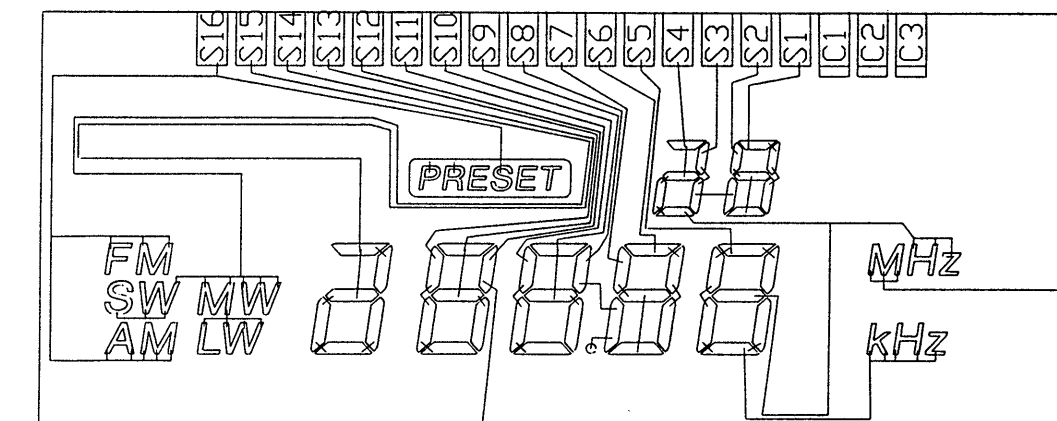
IC31 TA8148S



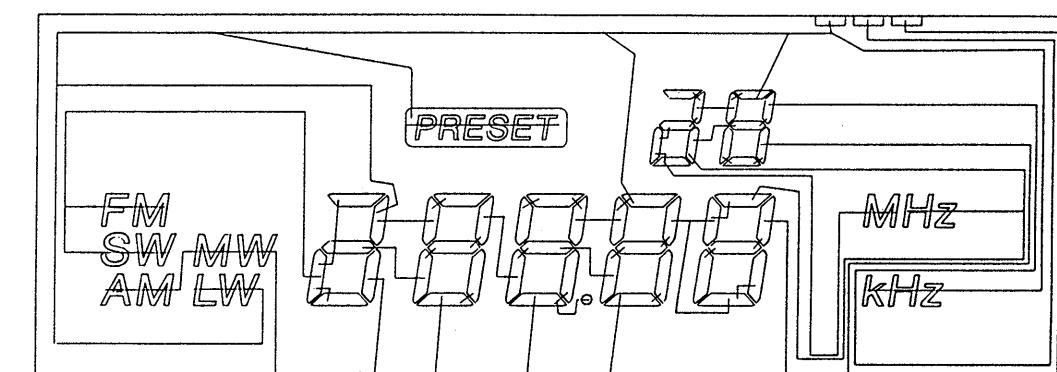
Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- Power voltage is dc 9V and fed with regulated dc power supply from battery terminal.
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
- (): SW
- < >: MW
- Voltages are taken with a VOM (input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- $\Rightarrow$: FM

LCD701



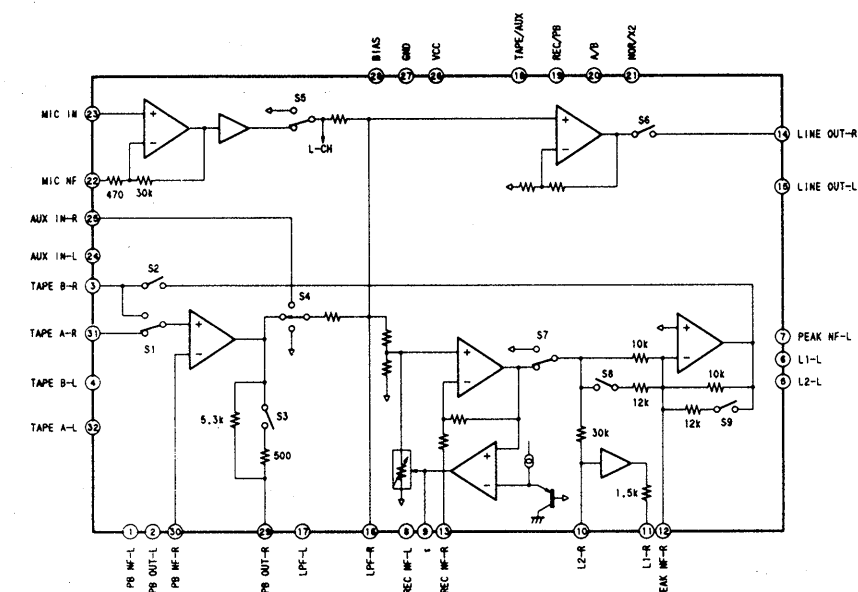
(SEG)



(COM)

• IC Block Diagram
IC301 BA3422S

	TAPE/AUX	REC/PB	A/B	NOR/X2
HIGH	AUX	REC	B-PB	X2
OPEN	TAPE	PB	A-PB	NOR



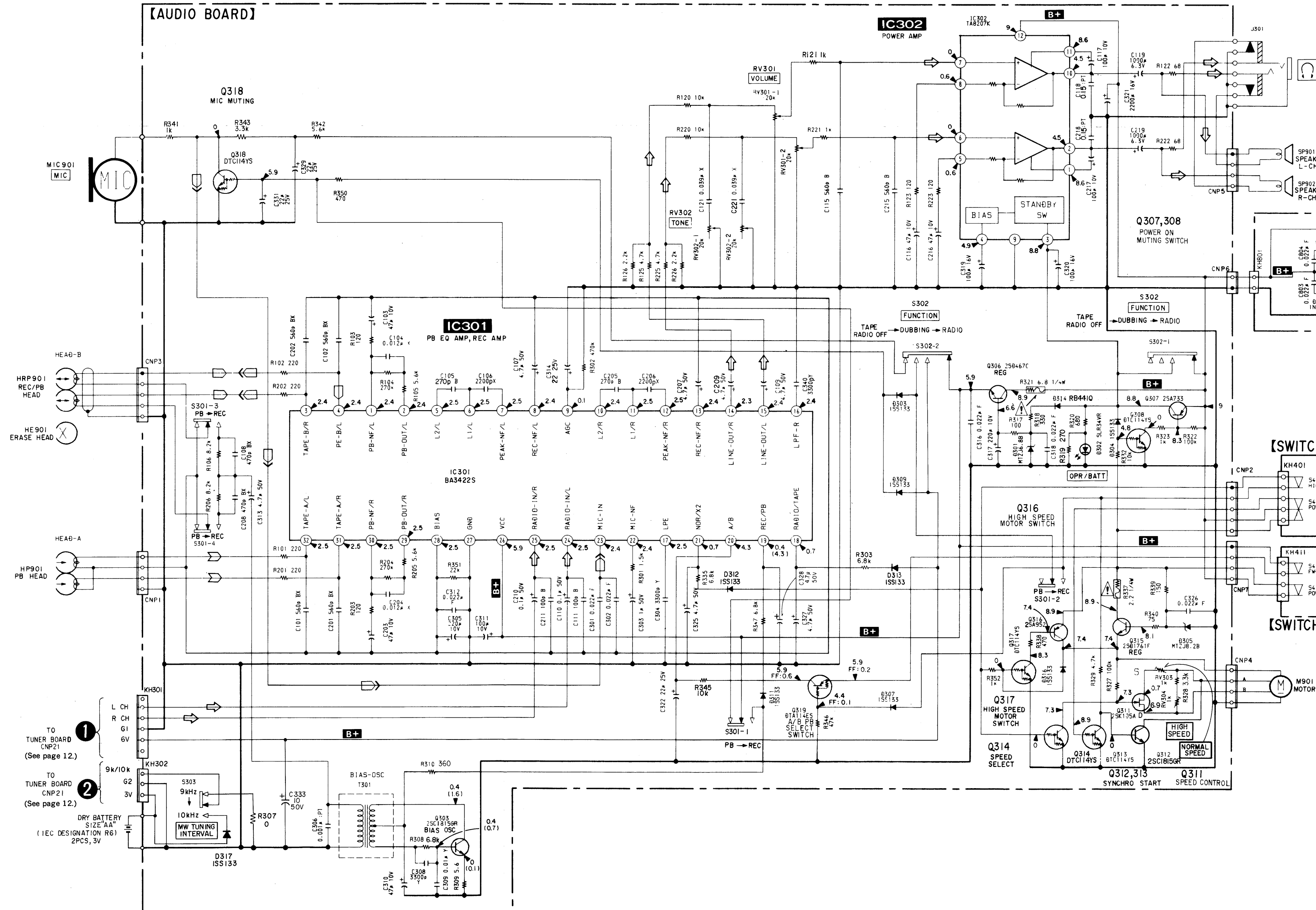
Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{2}\text{W}$ or less unless otherwise specified.
- $\text{---}\text{---}$: fusible resistor.

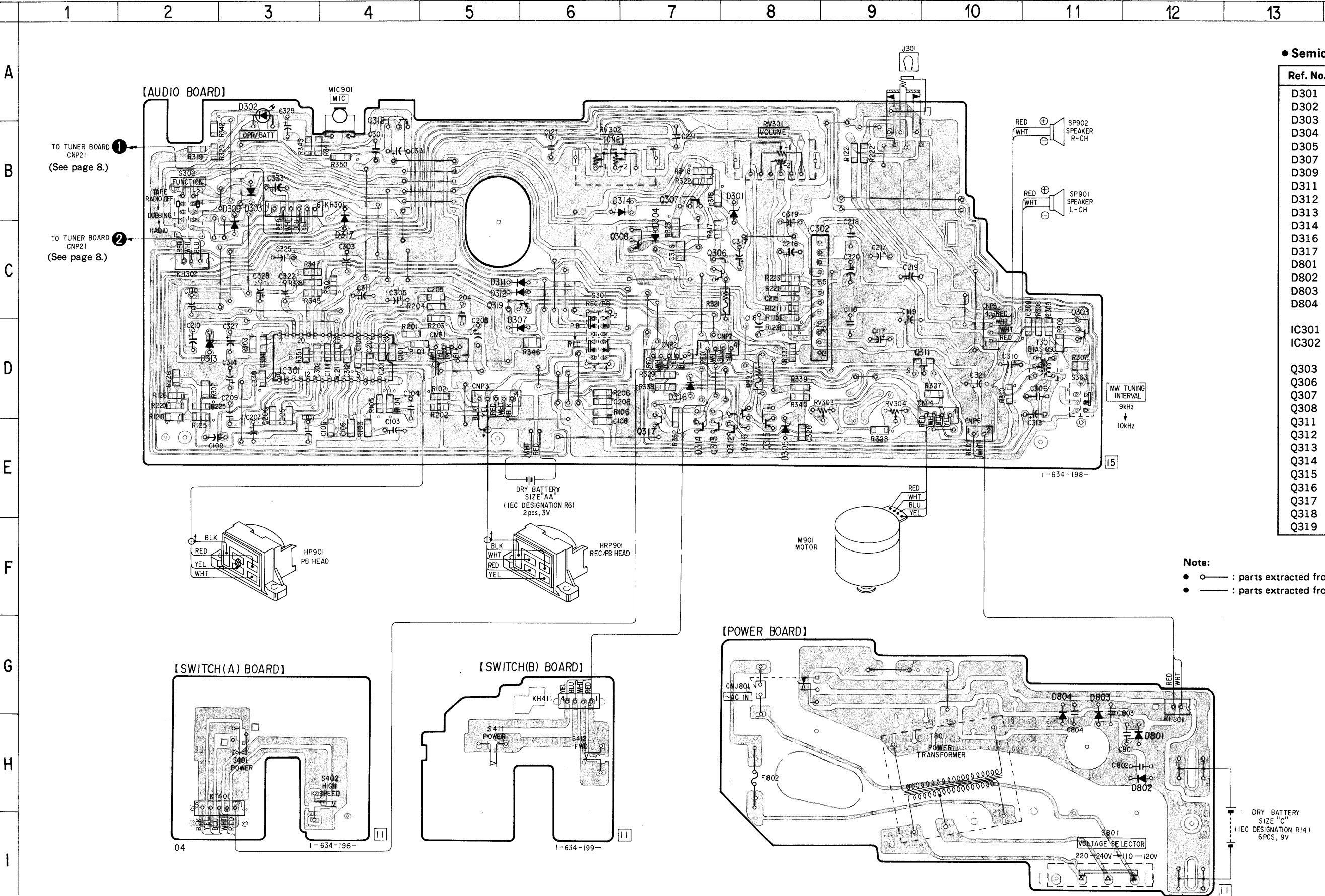
Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- Power voltage is dc 9V and fed with regulated dc power supply from battery terminal.
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
- no mark: PLAY
- (): REC
- Voltages are taken with a VOM (Input Impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.

- Signal path.
- $\Rightarrow$: FM
- $\Rightarrow$: PB (DECK A)
- $\Rightarrow$: PB (DECK B)
- $\Rightarrow$: REC (DECK B)



4-4. PRINTED WIRING BOARDS —AUDIO SECTION—

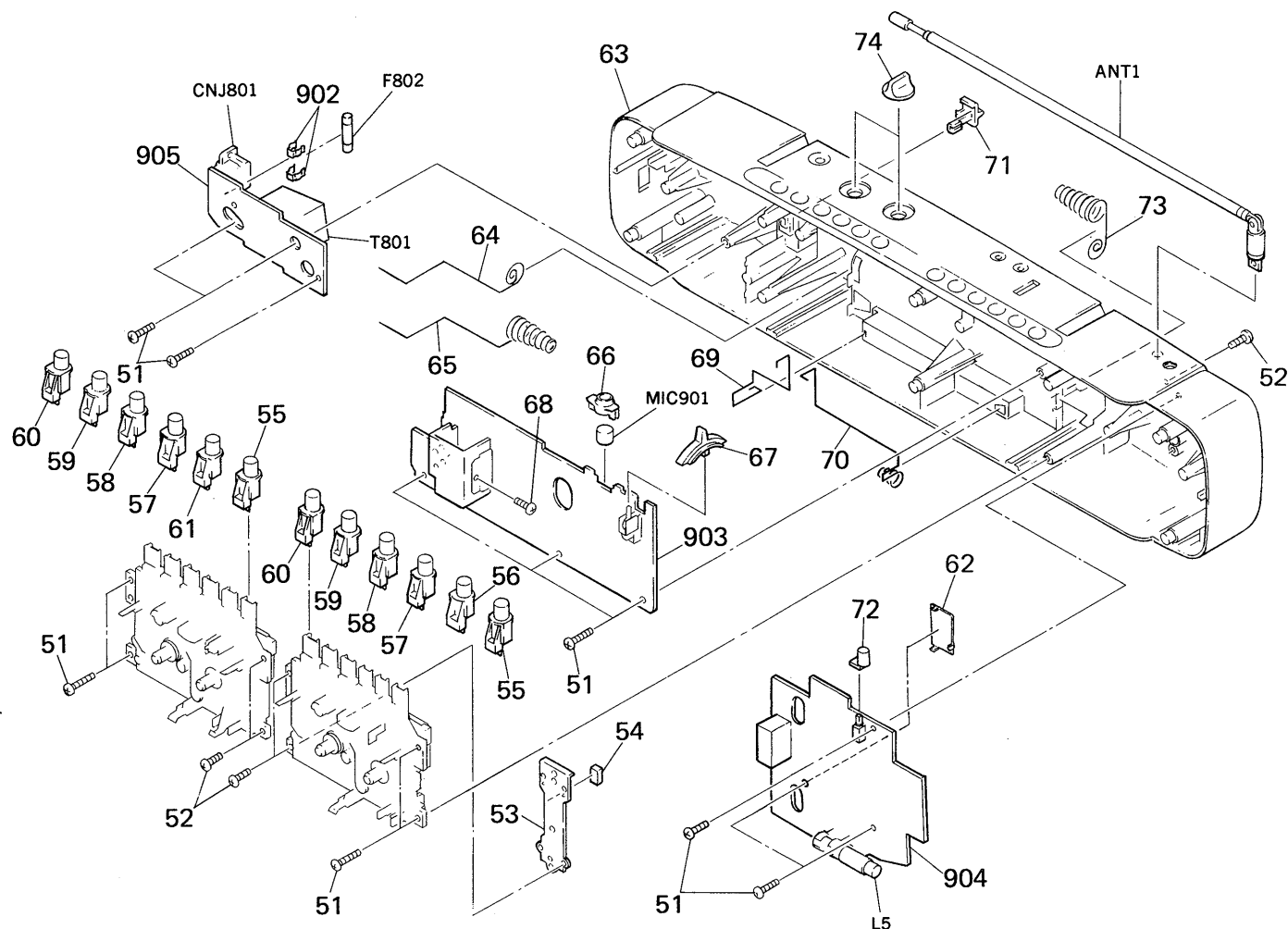


● Semiconductor Location

Ref. No.	Location
D301	B-8
D302	A-3
D303	B-3
D304	C-7
D305	E-7
D307	D-5
D309	B-3
D311	C-5
D312	C-5
D313	D-2
D314	B-6
D316	D-7
D317	B-4
D801	H-12
D802	H-12
D803	G-11
D804	G-11
IC301	D-3
IC302	C-8
Q303	D-11
Q306	C-7
Q307	B-7
Q308	C-7
Q311	D-9
Q312	E-8
Q313	E-7
Q314	E-7
Q315	E-8
Q316	E-8
Q317	E-7
Q318	A-4
Q319	C-5

Note:
● — : parts extracted from the component side.
● — : parts extracted from the conductor side.

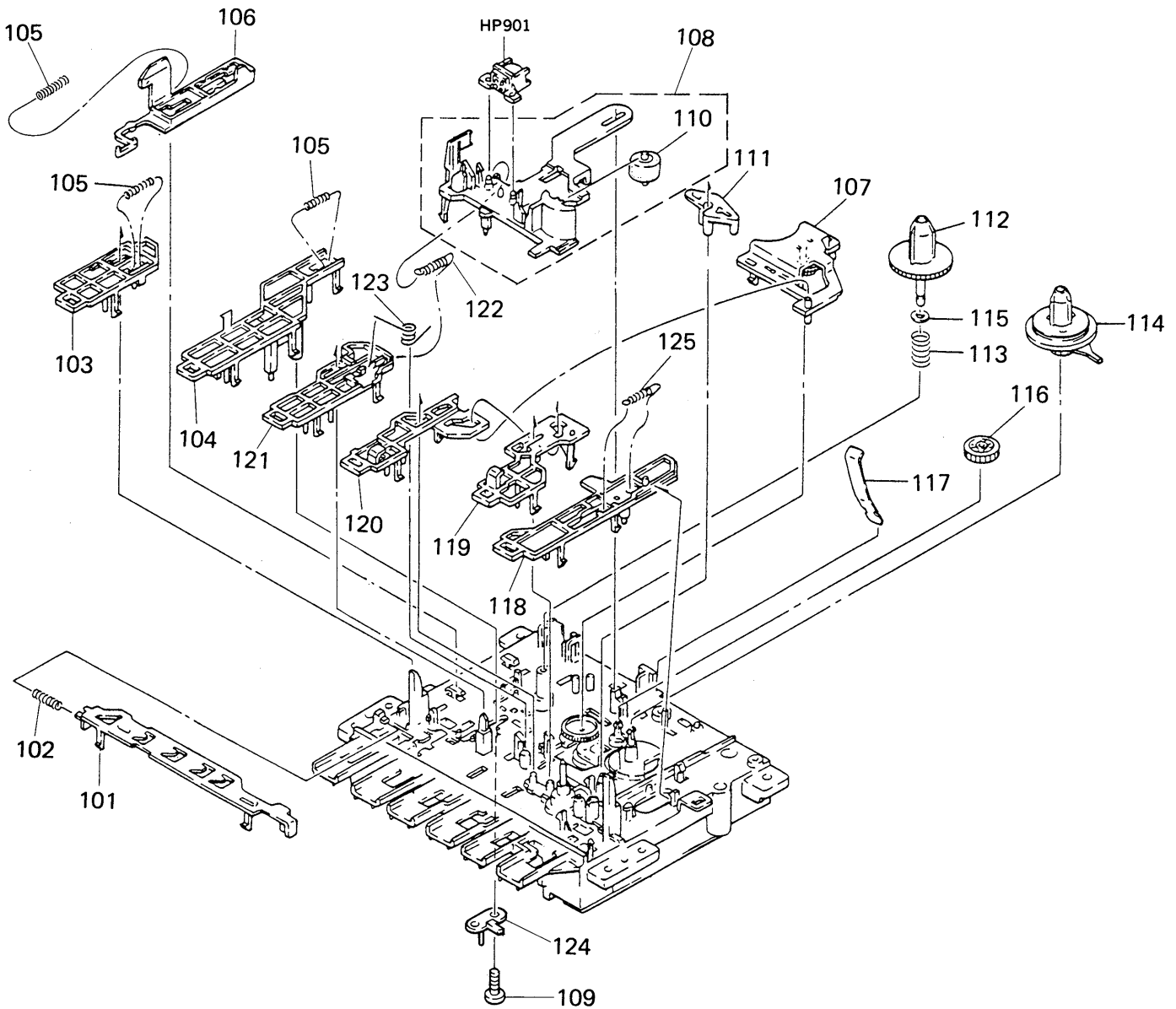
5-2. PC BOARDS, REAR CABINET



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

Ref.No	Part No.	Description	Remarks	Ref.No	Part No.	Description	Remarks
51	7-685-648-79	SCREW, TAPPING +BV 3X12		69	*3-357-582-01	TERMINAL (+), BATTERY	
52	7-682-548-04	SCREW +B 3X8		70	3-357-583-01	TERMINAL (-), BATTERY	
53	*4-934-517-01	JOINT		71	3-351-313-01	(BLACK)...KNOB (ISS)	
54	4-934-522-01	CUSHION		71	3-351-313-11	(WHITE)...KNOB (ISS)	
55	3-362-553-01	BUTTON (S/E)		71	3-351-313-21	(RED)...KNOB (ISS)	
56	3-362-551-01	BUTTON (HI SP)		72	3-351-380-11	(WHITE)...BUTTON (R,M)	
57	3-362-550-01	BUTTON (PLAY)		72	3-351-380-31	(BLACK)...BUTTON (R,M)	
58	3-362-549-01	BUTTON (REW)		72	3-351-380-41	(RED)...BUTTON (R,M)	
59	3-362-548-01	BUTTON (FF)		73	3-357-541-01	SPRING (+-), BATTERY COIL	
60	3-362-547-01	BUTTON (PAUSE)		74	3-351-338-11	(WHITE)...KNOB (VOL)	
61	3-362-552-01	BUTTON (REC)		74	3-351-338-21	(RED)...KNOB (VOL)	
62	3-887-524-00	PLATE, SHIELD		74	3-351-338-31	(BLACK)...KNOB (VOL)	
63	3-357-587-71	(BLACK)...CABINET (REAR)		902	1-533-217-31	HOLDER, FUSE	
63	3-357-587-81	(WHITE)...CABINET (REAR)		903	*A-3261-299-A	MOUNTED PCB, MAIN	
63	3-357-587-91	(RED)...CABINET (REAR)		904	*A-3261-298-A	MOUNTED PCB, TUNER	
64	3-357-539-01	TERMINAL, PLUS		905	1-634-195-11	PC BOARD, POWER	
65	3-357-540-01	SPRING (-), BATTERY COIL		ANT1	1-501-378-11	ANTENNA, TELESCOPIC	
66	3-321-122-01	CUSHION, MICROPHONE		CNJ801	⚠1-526-838-11	INLET, AC 2P (~AC IN)	
67	3-343-062-11	(WHITE)...KNOB (FUNCTION)		F802	⚠1-532-611-00	FUSE, TIME-LAG	
67	3-343-062-21	(RED)...KNOB (FUNCTION)		L5	1-402-418-11	ANTENNA, FERRITE-ROD(LW/MW/SW)	
67	3-343-062-31	(BLACK)...KNOB (FUNCTION)		MIC901	1-542-092-11	MICROPHONE, ELECTRET CONDENSER	
68	7-685-870-01	SCREW BVTT 3X5 (S)		T801	⚠1-450-015-11	TRANSFORMER, POWER	

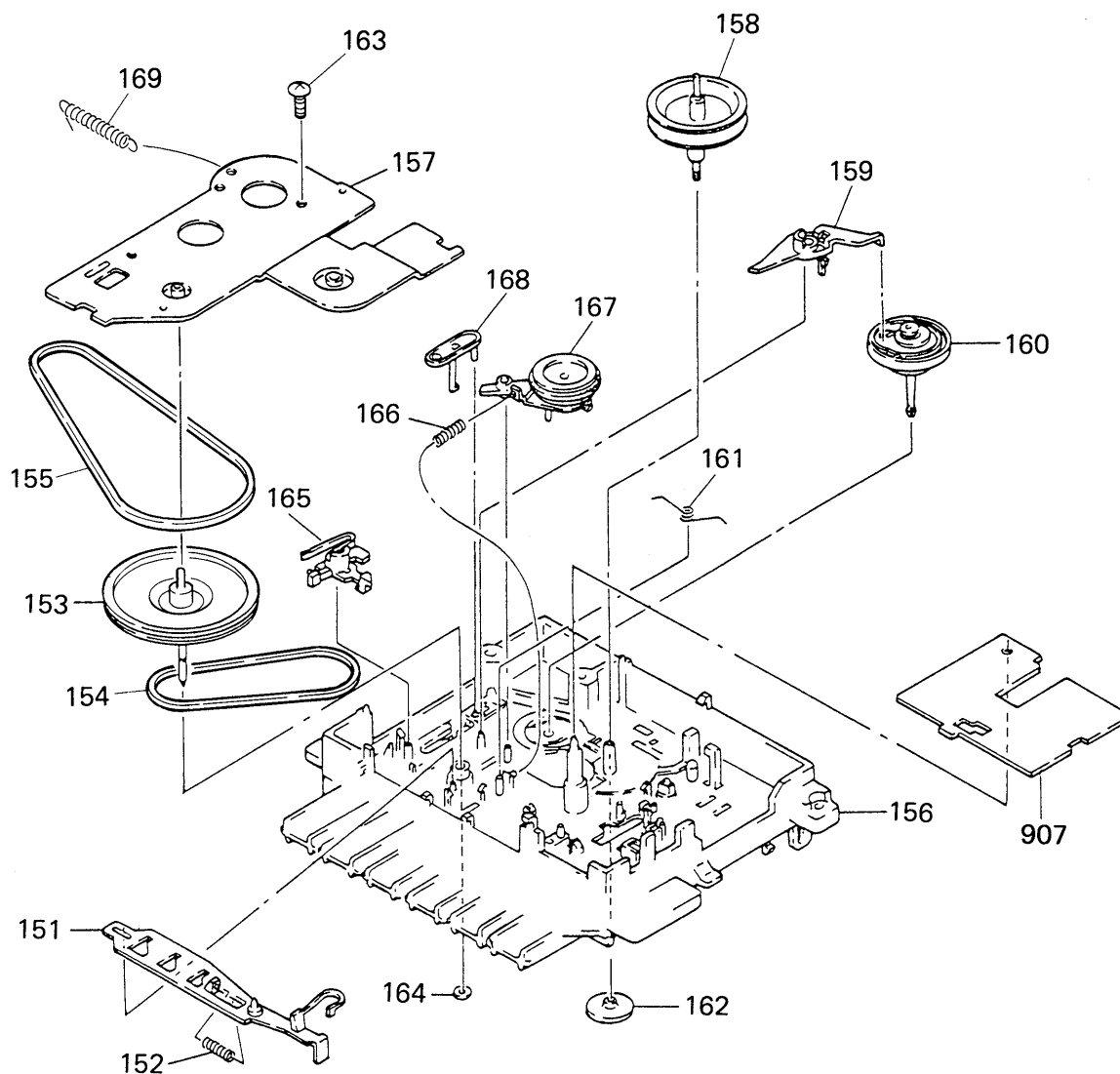
5-3. DECK A TAPE MECHANISM(1) (MF-W304-64)



Ref.No	Part No.	Description	Remarks
101	4-932-695-01	SLIDER (FR), LOCK	
102	4-932-656-01	SPRING, COMPRESSION	
103	4-928-985-01	LEVER, STOP	
104	4-921-195-01	LEVER (AC), REC	
105	4-932-648-01	SPRING, COMPRESSION	
106	4-936-206-01	SLIDER (S), EJECT	
107	X-4920-347-1	LEVER (S) ASSY, FR	
108	X-4920-345-1	BASE (S) ASSY, HEAD	110
109	7-685-132-19	SCREW +P 2.6X5 TYPE2 NON-SLIT	
110	4-928-962-01	PINCH ROLLER	
111	4-928-982-01	LEVER (C)	
112	4-928-978-01	GEAR (C), SUPPLY REEL	
113	3-343-381-01	SPRING, COMPRESSION	

Ref.No	Part No.	Description	Remarks
114	X-4920-350-1	GEAR (S) ASSY, T REEL	
115	4-931-795-11	WASHER	
116	3-343-285-01	GEAR, FF	
117	4-928-957-01	RETAINER, CASSETTE	
118	4-928-994-01	LEVER, PAUSE	
119	4-928-993-01	LEVER, FF	
120	4-928-992-01	LEVER, REW	
121	4-928-991-01	LEVER, PLAY	
122	4-928-972-01	SPRING, TENSION	
123	4-928-973-01	SPRING	
124	4-928-976-01	LEVER, SW	
125	3-313-372-01	SPRING, TENSION	
HP901	1-543-714-11	HEAD, MAGNETIC (PB)	

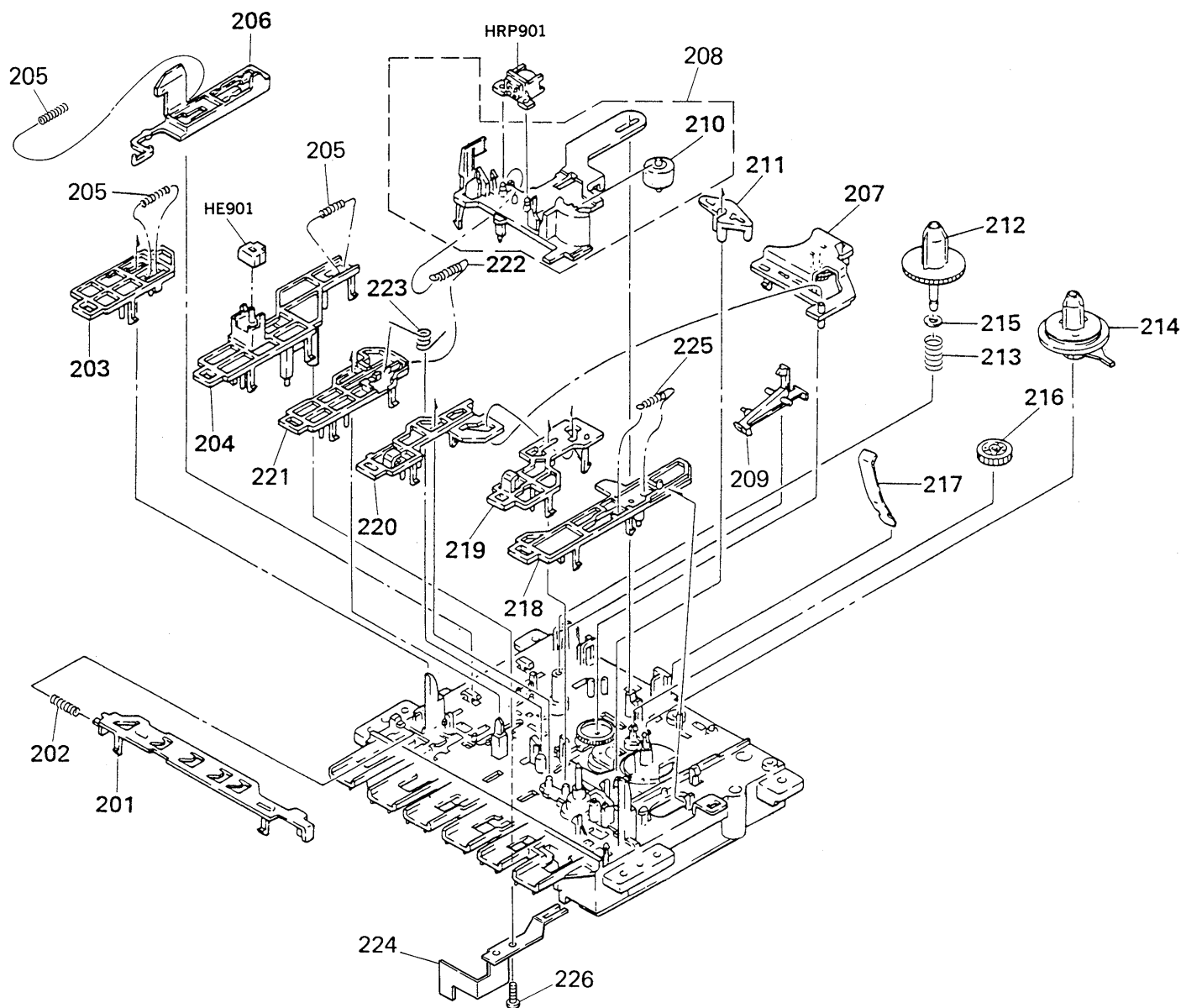
5-4. DECK A TAPE MECHANISM(2) (MF-W304-64)



Ref.No	Part No.	Description	Remarks
151	4-928-996-01	LEVER, SW	
152	4-932-656-01	SPRING, COMPRESSION	
153	X-4920-923-1	WHEEL (W) ASSY, CAPSTAN	
154	4-928-974-01	BELT (MIDWAY)	
155	4-934-520-01	BELT	
156	X-4920-348-1	CHASSIS (S) ASSY, MECHANICAL	
157	*X-4918-598-1	PLATE ASSY, GROUND	
158	X-4920-922-1	PULLEY (W) ASSY, FR	
159	4-928-986-01	LEVER (S), SHUT-OFF	
160	X-4918-582-1	PLATE ASSY, TAKE-UP REEL	

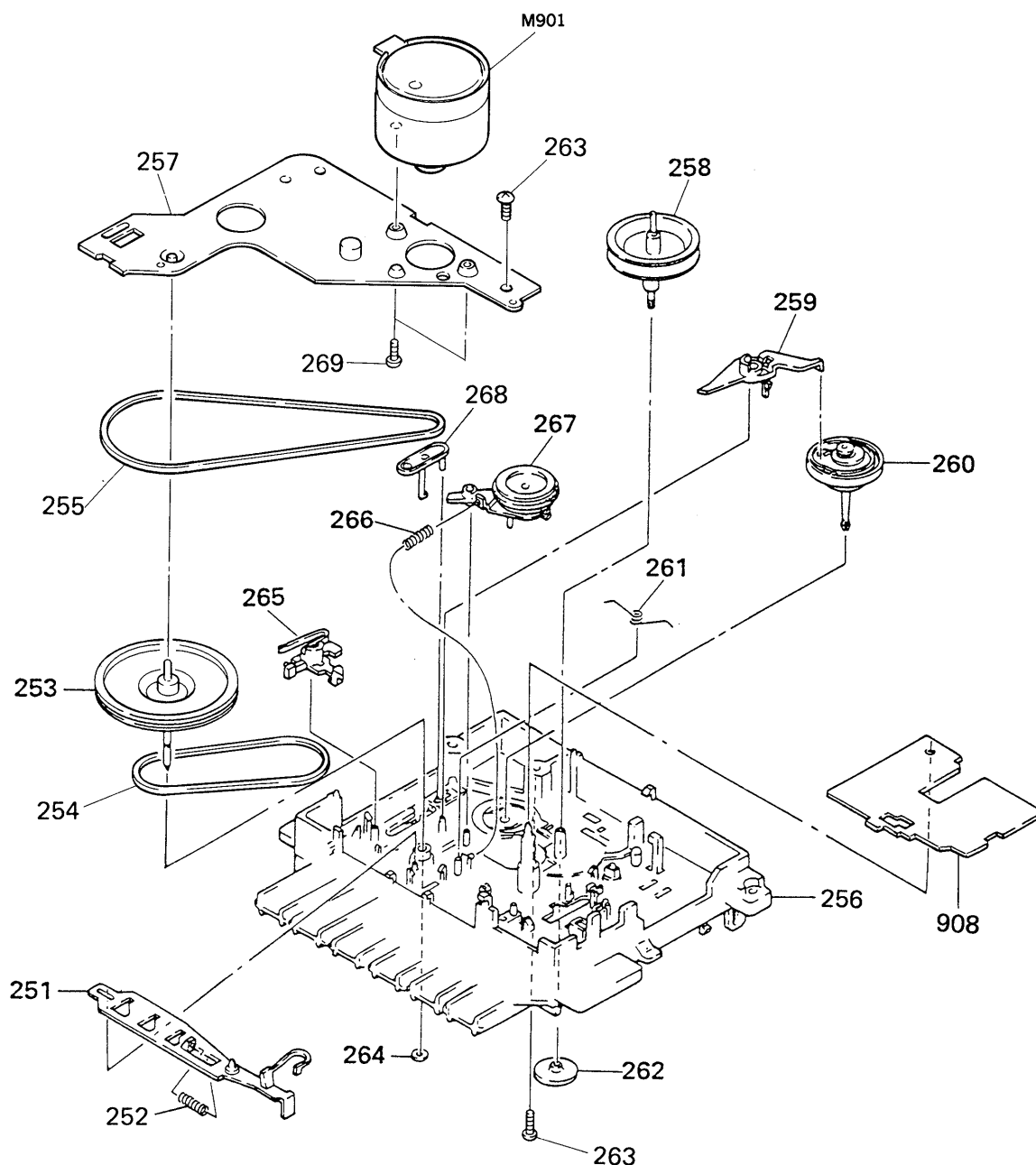
Ref.No	Part No.	Description	Remarks
161	4-928-958-01	SPRING, FR RETURN	
162	4-928-967-01	GEAR (C), MIDWAY	
163	7-685-144-19	SCREW +P 3X5 TYPE2 NON-SLIT	
164	3-343-358-01	RING, RETAINING	
165	4-928-987-01	LEVER (T), SHUT-OFF	
166	4-932-655-01	SPRING, COMPRESSION	
167	X-4920-346-1	LEVER (S) ASSY, IDLER	
168	4-928-961-01	PLATE, PAUSE LOCK	
169	3-322-527-01	SPRING, TENSION	
907	*1-634-196-11	PC BOARD, SWITCH (A)	

5-5. DECK B TAPE MECHANISM(1) (MF-W304-64)



Ref.No	Part No.	Description	Remarks	Ref.No	Part No.	Description	Remarks
201	4-932-695-01	SLIDER (FR), LOCK		215	4-931-795-11	WASHER	
202	4-932-656-01	SPRING, COMPRESSION		216	3-343-285-01	GEAR, FF	
203	4-928-985-01	LEVER, STOP		217	4-928-957-01	RETAINER, CASSETTE	
204	4-934-511-01	LEVER (S), REC		218	4-928-994-01	LEVER, PAUSE	
205	4-932-648-01	SPRING, COMPRESSION		219	4-928-993-01	LEVER, FF	
206	4-936-206-01	SLIDER (S), EJECT		220	4-928-992-01	LEVER, REW	
207	X-4920-347-1	LEVER (S) ASSY, FR		221	4-928-991-01	LEVER, PLAY	
208	X-4920-345-1	BASE (S) ASSY, HEAD	210	222	4-928-972-01	SPRING, TENSION	
209	4-928-960-02	CLAW, SAFETY		223	4-928-973-01	SPRING	
210	4-928-962-01	PINCH ROLLER		224	3-357-538-01	LEVER, REC	
211	4-928-982-01	LEVER (C)		225	3-313-372-01	SPRING, TENSION	
212	4-928-978-01	GEAR (C), SUPPLY REEL		226	7-685-132-19	SCREW +P 2.6X5 TYPE2 NON-SLIT	
213	3-343-381-01	SPRING, COMPRESSION		HE901	1-543-525-11	HEAD, MAGNETIC (ERASE)	
214	X-4920-350-1	GEAR (S) ASSY, T REEL		HRP901	1-543-714-11	HEAD, MAGNETIC (REC/PB)	

5-6. DECK B TAPE MECHANISM(2) (MF-W304-64)



Ref.No	Part No.	Description	Remarks	Ref.No	Part No.	Description	Remarks
251	4-928-996-01	LEVER, SW		262	4-928-967-01	GEAR (C), MIDWAY	
252	4-932-656-01	SPRING, COMPRESSION		263	7-685-132-19	SCREW + P 2.6X5 TYPE2 NON-SLIT	
253	X-4920-923-1	WHEEL (W) ASSY, CAPSTAN		264	3-343-358-01	RING, RETAINING	
254	4-928-974-01	BELT (MIDWAY)		265	4-928-987-01	LEVER (T), SHUT-OFF	
255	4-934-521-01	BELT		266	4-932-655-01	SPRING, COMPRESSION	
256	X-4920-348-1	CHASSIS (S) ASSY, MECHANICAL		267	X-4920-346-1	LEVER (S) ASSY, IDLER	
257	X-4920-921-1	PLATE (W) ASSY, GROUND		268	4-928-961-01	PLATE, PAUSE LOCK	
258	X-4920-922-1	PULLEY (W) ASSY, FR		269	3-343-251-01	SCREW (M2.6X2.5)	
259	4-928-986-01	LEVER (S), SHUT-OFF		M901	X-4920-924-1	MOTOR ASSY	
260	X-4918-582-1	PLATE ASSY, TAKE-UP REEL		908	*1-634-199-11	PC BOARD, SWITCH (B)	
261	4-928-958-01	SPRING, FR RETURN					

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:MF: μ F, PF: μ MF.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORSIn each case, U: μ , for example:UA....: μ A...., UPA....: μ PA....,UPC....: μ PC, UPD....: μ PD...

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

• EA : Saudi Arabia model

Ref.No	Part No.	Description
901	*1-635-903-11	PC BOARD, DISPLAY
902	1-533-217-31	HOLDER, FUSE
903	*A-3261-299-A	MOUNTED PCB, MAIN
904	*A-3261-298-A	MOUNTED PCB, TUNER
905	1-634-195-11	PC BOARD, POWER
907	*1-634-196-11	PC BOARD, SWITCH (A)
908	*1-634-199-11	PC BOARD, SWITCH (B)
ANT1	1-501-378-11	ANTENNA, TELESCOPIC

CAPACITOR

C1	1-161-494-00	CERAMIC	0.022MF	25V
C2	1-162-849-11	CERAMIC	0.068MF	10% 16V
C3	1-124-443-00	ELECT	100MF	20% 6.3V
C4	1-161-379-00	CERAMIC	0.01MF	30% 16V
C5	1-161-379-00	CERAMIC	0.01MF	30% 16V
C6	1-162-187-31	CERAMIC	1PF	20% 50V
C7	1-124-925-11	ELECT	2.2MF	20% 50V
C8	1-124-443-00	ELECT	100MF	20% 6.3V
C9	1-162-195-31	CERAMIC	4.7PF	10% 50V
C10	1-161-379-00	CERAMIC	0.01MF	30% 16V
C13	1-124-927-11	ELECT	4.7MF	20% 50V
C14	1-124-791-11	ELECT	1MF	20% 50V
C15	1-124-126-00	ELECT	47MF	20% 10V
C16	1-124-126-00	ELECT	47MF	20% 10V
C17	1-161-379-00	CERAMIC	0.01MF	30% 16V
C18	1-124-902-00	ELECT	0.47MF	20% 50V
C19	1-124-902-00	ELECT	0.47MF	20% 50V
C20	1-124-791-11	ELECT	1MF	20% 50V
C21	1-124-902-00	ELECT	0.47MF	20% 50V
C22	1-124-927-11	ELECT	4.7MF	20% 50V
C24	1-161-379-00	CERAMIC	0.01MF	30% 16V
C27	1-162-294-31	CERAMIC	0.001MF	10% 50V
C28	1-162-840-11	CERAMIC	0.012MF	10% 16V
C29	1-162-840-11	CERAMIC	0.012MF	10% 16V
C30	1-162-187-31	CERAMIC	1PF	20% 50V
C31	1-162-282-31	CERAMIC	100PF	10% 50V
C32	1-162-282-31	CERAMIC	100PF	10% 50V
C33	1-162-294-31	CERAMIC	0.001MF	10% 50V
C35	1-161-379-00	CERAMIC	0.01MF	30% 16V
C36	1-162-282-31	CERAMIC	100PF	10% 50V
C37	1-161-494-00	CERAMIC	0.022MF	25V
C38	1-101-005-00	CERAMIC	0.022MF	50V
C39	1-162-282-31	CERAMIC	100PF	10% 50V
C40	1-124-791-11	ELECT	1MF	20% 50V
C41	1-162-282-31	CERAMIC	100PF	10% 50V
C42	1-101-005-00	CERAMIC	0.022MF	50V
C43	1-161-494-00	CERAMIC	0.022MF	25V
C44	1-161-379-00	CERAMIC	0.01MF	30% 16V
C45	1-102-981-00	CERAMIC	300PF	5% 50V
C46	1-162-195-31	CERAMIC	4.7PF	10% 50V
C47	1-101-005-00	CERAMIC	0.022MF	50V
C48	1-101-005-00	CERAMIC	0.022MF	50V
C49	1-102-953-00	CERAMIC	18PF	5% 50V
C50	1-101-005-00	CERAMIC	0.022MF	50V

C51	1-161-494-00	CERAMIC	0.022MF	25V
C52	1-130-029-00	FILM	0.0082MF	5% 50V
C54	1-102-307-11	CERAMIC	27PF	5% 50V
C55	1-161-494-00	CERAMIC	0.022MF	25V
C56	1-162-195-31	CERAMIC	4.7PF	10% 50V
C57	1-101-882-00	CERAMIC	51PF	5% 50V
C58	1-136-287-11	FILM	0.0047MF	5% 50V
C59	1-101-005-00	CERAMIC	0.022MF	50V
C60	1-101-005-00	CERAMIC	0.022MF	50V
C61	1-162-206-31	CERAMIC	20PF	5% 50V
C62	1-162-199-31	CERAMIC	10PF	5% 50V
C63	1-161-379-00	CERAMIC	0.01MF	30% 16V
C64	1-101-005-00	CERAMIC	0.022MF	50V
C66	1-162-843-11	CERAMIC	0.022MF	10% 16V
C67	1-161-379-00	CERAMIC	0.01MF	30% 16V
C68	1-102-973-00	CERAMIC	100PF	5% 50V
C69	1-161-494-00	CERAMIC	0.022MF	25V
C70	1-101-005-00	CERAMIC	0.022MF	50V
C71	1-161-494-00	CERAMIC	0.022MF	25V
C72	1-161-494-00	CERAMIC	0.022MF	25V
C73	1-101-005-00	CERAMIC	0.022MF	50V
C74	1-101-005-00	CERAMIC	0.022MF	50V
C75	1-161-379-00	CERAMIC	0.01MF	30% 16V
C76	1-161-494-00	CERAMIC	0.022MF	25V
C78	1-101-005-00	CERAMIC	0.022MF	50V
C79	1-101-005-00	CERAMIC	0.022MF	50V
C80	1-101-005-00	CERAMIC	0.022MF	50V
C81	1-161-379-00	CERAMIC	0.01MF	30% 16V
C82	1-123-875-11	ELECT	10MF	20% 50V
C83	1-101-888-00	CERAMIC	68PF	5% 50V
C84	1-161-041-00	CERAMIC	0.0015MF	10% 25V
C85	1-124-126-00	ELECT	47MF	20% 10V
C86	1-124-925-11	ELECT	2.2MF	20% 50V
C87	1-162-290-31	CERAMIC	470PF	10% 50V
C88	1-161-379-00	CERAMIC	0.01MF	30% 16V
C89	1-124-126-00	ELECT	47MF	20% 10V
C96	1-162-282-31	CERAMIC	100PF	10% 50V
C97	1-161-494-00	CERAMIC	0.022MF	25V
C101	1-163-199-00	CERAMIC MELF	560PF	10% 50V
C102	1-163-199-00	CERAMIC MELF	560PF	10% 50V
C103	1-124-126-00	ELECT	47MF	20% 10V
C104	1-162-840-11	CERAMIC	0.012MF	10% 16V
C105	1-163-191-00	CERAMIC MELF	270PF	10% 50V
C106	1-163-213-00	CERAMIC MELF	0.0022MF	20% 16V
C107	1-124-927-11	ELECT	4.7MF	20% 50V
C108	1-163-197-00	CERAMIC MELF	470PF	10% 50V
C109	1-124-927-11	ELECT	4.7MF	20% 50V
C110	1-124-463-00	ELECT	0.1MF	20% 50V
C111	1-163-181-00	CERAMIC MELF	100PF	10% 50V
C115	1-163-199-00	CERAMIC MELF	560PF	10% 50V
C116	1-124-126-00	ELECT	47MF	20% 10V
C117	1-124-443-00	ELECT	100MF	20% 10V
C118	1-130-497-00	MYLAR	0.15MF	5% 50V
C119	1-124-471-00	ELECT	1000MF	20% 6.3V
C121	1-161-020-11	CERAMIC	0.039MF	10% 16V

Ref.No	Part No.	Description			
C201	1-163-199-00	CERAMIC MELF	560PF	10%	50V
C202	1-163-199-00	CERAMIC MELF	560PF	10%	50V
C203	1-124-126-00	ELECT	47MF	20%	10V
C204	1-162-840-11	CERAMIC	0.012MF	10%	16V
C205	1-163-191-00	CERAMIC MELF	270PF	10%	50V
C206	1-163-213-00	CERAMIC MELF	0.0022MF	20%	16V
C207	1-124-927-11	ELECT	4.7MF	20%	50V
C208	1-163-197-00	CERAMIC MELF	470PF	10%	50V
C209	1-124-927-11	ELECT	4.7MF	20%	50V
C210	1-124-463-00	ELECT	0.1MF	20%	50V
C211	1-163-181-00	CERAMIC MELF	100PF	10%	50V
C215	1-163-199-00	CERAMIC MELF	560PF	10%	50V
C216	1-124-126-00	ELECT	47MF	20%	10V
C217	1-124-443-00	ELECT	100MF	20%	10V
C218	1-130-497-00	MYLAR	0.15MF	5%	50V
C219	1-124-471-00	ELECT	1000MF	20%	6.3V
C221	1-161-020-11	CERAMIC	0.039MF	10%	16V
C301	1-101-005-00	CERAMIC MELF	0.022MF		50V
C302	1-163-063-00	CERAMIC MELF	0.022MF		25V
C303	1-124-791-11	ELECT	1MF	20%	50V
C304	1-163-053-00	CERAMIC MELF	0.0033MF	20%	16V
C305	1-126-176-11	ELECT	220MF	20%	10V
C306	1-130-471-00	MYLAR	0.001MF	5%	50V
C308	1-163-053-00	CERAMIC MELF	0.0033MF	20%	16V
C309	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C310	1-124-126-00	ELECT	47MF	20%	10V
C311	1-124-443-00	ELECT	100MF	20%	10V
C312	1-163-063-00	CERAMIC MELF	0.022MF		25V
C313	1-124-927-11	ELECT	4.7MF	20%	50V
C314	1-126-233-11	ELECT	22MF	20%	25V
C316	1-163-063-00	CERAMIC MELF	0.022MF		25V
C317	1-126-176-11	ELECT	220MF	20%	10V
C318	1-163-063-00	CERAMIC MELF	0.022MF		25V
C319	1-126-101-11	ELECT	100MF	20%	16V
C320	1-126-101-11	ELECT	100MF	20%	16V
C321	1-124-556-11	ELECT	2200MF	20%	16V
C322	1-126-233-11	ELECT	22MF	20%	25V
C325	1-124-927-11	ELECT	4.7MF	20%	50V
C326	1-163-063-00	CERAMIC MELF	0.022MF		25V
C327	1-124-927-11	ELECT	4.7MF	20%	50V
C328	1-124-927-11	ELECT	4.7MF	20%	50V
C329	1-126-233-11	ELECT	22MF	20%	25V
C331	1-126-233-11	ELECT	22MF	20%	25V
C333	1-123-875-11	ELECT	10MF	20%	50V
C340	1-163-053-00	CERAMIC MELF	0.0033MF	20%	16V
C701	1-161-379-00	CERAMIC	0.01MF	30%	16V
C702	1-162-282-31	CERAMIC	100PF	10%	50V
C703	1-161-379-00	CERAMIC	0.01MF	30%	16V
C704	1-161-379-00	CERAMIC	0.01MF	30%	16V
C705	1-161-379-00	CERAMIC	0.01MF	30%	16V
C706	1-162-851-11	CERAMIC	0.1MF	10%	16V
C707	1-161-494-00	CERAMIC	0.022MF		25V
C708	1-162-851-11	CERAMIC	0.1MF	10%	16V
C709	1-124-576-11	ELECT	220MF	20%	4V
C710	1-162-294-31	CERAMIC	0.001MF	10%	50V
C711	1-161-494-00	CERAMIC	0.022MF		25V
C712	1-162-212-31	CERAMIC	36PF	5%	50V
C713	1-162-203-31	CERAMIC	15PF	5%	50V
C714	1-162-294-31	CERAMIC	0.001MF	10%	50V
C715	1-161-379-00	CERAMIC	0.01MF	30%	16V
C716	1-124-767-00	ELECT	2.2MF	20%	50V
C717	1-161-379-00	CERAMIC	0.01MF	30%	16V
C718	1-162-294-31	CERAMIC	0.001MF	10%	50V
C719	1-162-294-31	CERAMIC	0.001MF	10%	50V
C720	1-162-294-31	CERAMIC	0.001MF	10%	50V

Ref.No	Part No.	Description			
C721	1-162-294-31	CERAMIC	0.001MF	10%	50V
C722	1-162-851-11	CERAMIC	0.1MF	10%	16V
C723	1-161-379-00	CERAMIC	0.01MF	30%	16V
C724	1-161-379-00	CERAMIC	0.01MF	30%	16V
C725	1-161-494-00	CERAMIC	0.022MF		25V
C726	1-162-282-31	CERAMIC	100PF	10%	50V
C727	1-162-282-31	CERAMIC	100PF	10%	50V
C728	1-161-494-00	CERAMIC	0.022MF		25V
C801	1-101-005-00	CERAMIC	0.022MF		50V
C802	1-101-005-00	CERAMIC	0.022MF		50V
C803	1-101-005-00	CERAMIC	0.022MF		50V
C804	1-101-005-00	CERAMIC	0.022MF		50V
CF1	1-577-599-11	FILTER, CERAMIC			
CF2	1-577-599-11	FILTER, CERAMIC			
CF3	1-567-777-11	FILTER, CERAMIC			
CF4	1-577-599-11	FILTER, CERAMIC			
CNJ22	*1-562-680-11	CONNECTOR, SMALL MICRO 2P			
CNJ23	*1-563-470-11	HOUSING, CONNECTOR 2P			
CNJ801	*1-526-838-11	INLET, AC 2P (~AC IN)			
CNP1	*1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
CNP2	*1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P			
CNP3	*1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P			
CNP4	*1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
CNP5	*1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
CNP6	*1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P			
CNP7	*1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
CNP21	*1-568-273-11	SOCKET, CONNECTOR 7P			
CNP22	*1-564-777-11	PLUG, CONNECTOR (2.5MM) 2P			
CNP23	*1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P			
CNP24	*1-506-990-11	PIN, CONNECTOR (PC BOARD) 8P			
CP1	1-235-171-00	FILTER, BAND PASS			
CT3	1-141-290-41	CAP, VAR FILM TRIMMER			
CT4	1-141-290-41	CAP, VAR FILM TRIMMER			
CT5	1-141-290-41	CAP, VAR FILM TRIMMER			
CT6	1-141-290-41	CAP, VAR FILM TRIMMER			
D1	8-719-911-19	DIODE 1SS119			
D2	8-719-911-19	DIODE 1SS119			
D3	8-719-911-19	DIODE 1SS119			
D4	8-719-911-19	DIODE 1SS119			
D5	8-719-980-65	DIODE SVC203RA-V			
D6	8-719-980-65	DIODE SVC203RA-V			
D7	8-719-903-27	DIODE 1SS168			
D8	8-719-903-27	DIODE 1SS168			
D9	8-719-911-19	DIODE 1SS119			
D10	8-719-911-19	DIODE 1SS119			
D11	8-719-911-19	DIODE 1SS119			
D12	8-719-903-27	DIODE 1SS168			
D15	8-719-980-71	DIODE SVC342L-V			
D18	8-719-903-27	DIODE 1SS168			
D19	8-719-903-27	DIODE 1SS168			
D20	8-719-903-27	DIODE 1SS168			
D21	8-719-903-27	DIODE 1SS168			
D22	8-719-903-27	DIODE 1SS168			
D23	8-719-903-27	DIODE 1SS168			
D24	8-719-903-27	DIODE 1SS168			
D25	8-719-903-27	DIODE 1SS168			
D26	8-719-903-27	DIODE 1SS168			
D27	8-719-903-27	DIODE 1SS168			
D28	8-719-980-71	DIODE SVC342L-V			
D29	8-719-911-19	DIODE 1SS119			
D30	8-719-911-19	DIODE 1SS119			
D81	8-719-911-19	DIODE 1SS119			
D301	8-719-109-97	DIODE RD6.8ES-B2			

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

Ref.No	Part No.	Description
D302	8-719-918-76	DIODE GL-3PRQ
D303	8-719-911-19	DIODE 1SS119
D304	8-719-911-19	DIODE 1SS119
D305	8-719-110-08	DIODE RD8.2ES-B2
D307	8-719-911-19	DIODE 1SS119
D309	8-719-911-19	DIODE 1SS119
D311	8-719-911-19	DIODE 1SS119
D312	8-719-911-19	DIODE 1SS119
D313	8-719-911-19	DIODE 1SS119
D314	8-719-986-73	DIODE RB441Q
D316	8-719-911-19	DIODE 1SS119
D317	8-719-911-19	DIODE 1SS119
D701	8-719-911-19	DIODE 1SS119
D702	8-719-911-19	DIODE 1SS119
D703	8-719-911-19	DIODE 1SS119
D704	8-719-911-19	DIODE 1SS119
D705	8-719-911-19	DIODE 1SS119
D706	8-719-911-19	DIODE 1SS119
D707	8-719-911-19	DIODE 1SS119
D708	8-719-110-21	DIODE RD11ES-B1
D709	8-719-110-21	DIODE RD11ES-B1
D710	8-719-110-21	DIODE RD11ES-B1
D711	8-719-110-21	DIODE RD11ES-B1
D712	8-719-911-19	DIODE 1SS119
D801	8-719-200-02	DIODE 10E2
D802	8-719-200-02	DIODE 10E2
D803	8-719-200-02	DIODE 10E2
D804	8-719-200-02	DIODE 10E2
F802	△ 1-532-611-00	FUSE, TIME-LAG
HE901	1-543-525-11	HEAD, MAGNETIC (ERASE)
HP901	1-543-714-11	HEAD, MAGNETIC (PB)
HRP901	1-543-714-11	HEAD, MAGNETIC (REC/PB)
IC1	8-752-035-68	IC CXA1238S
IC2	8-759-800-53	IC LA5004
IC81	8-759-230-45	IC TA8148S
IC301	8-759-501-37	IC BA3422S
IC302	8-759-230-13	IC TA8207K
IC701	8-759-151-26	IC UPD1724GB-524-1A7
J301	1-568-267-11	JACK (HEADPHONE)
KH302	* 1-565-384-11	HOLDER, CABLE 3P
KH401	* 1-565-386-11	HOLDER, CABLE 5P
KH411	* 1-565-385-11	HOLDER, CABLE 4P
KH801	* 1-565-384-11	HOLDER, CABLE 3P
L1	1-428-146-11	COIL, AIR-CORE (FM RF)
L2	1-428-145-11	COIL, AIR-CORE (FM RF)
L3	1-426-507-11	COIL (FM RF)
L4	1-410-336-11	INDUCTOR 220UH
L5	1-402-418-11	ANTENNA, FERRITE-ROD(LW/MW/SW)
L6	1-410-450-11	INDUCTOR 3.9MMH
L7	1-410-521-11	INDUCTOR 100UH
L8	1-402-509-11	COIL (SW2 ANT)
L9	1-460-075-11	COIL (SW1 ANT)
L10	1-410-336-11	INDUCTOR 220UH
L11	1-410-336-11	INDUCTOR 220UH
L12	1-410-336-11	INDUCTOR 220UH
L13	1-410-336-11	INDUCTOR 220UH
L81	1-410-336-11	INDUCTOR 220UH
L82	1-410-509-11	INDUCTOR 10UH
L83	1-410-509-11	INDUCTOR 10UH
L701	1-410-336-11	INDUCTOR 220UH

Ref.No	Part No.	Description
LCD701	1-809-079-11	DISPLAY PANEL, LIQUID CRYSTAL
M901	X-4920-924-1	MOTOR ASSY
Q1	8-729-904-39	TRANSISTOR DTC114TS
Q2	8-729-904-39	TRANSISTOR DTC114TS
Q3	8-729-904-39	TRANSISTOR DTC114TS
Q4	8-729-904-39	TRANSISTOR DTC114TS
Q5	8-729-904-39	TRANSISTOR DTC114TS
Q6	8-729-900-80	TRANSISTOR DTC114ES
Q7	8-729-900-80	TRANSISTOR DTC114ES
Q8	8-729-904-39	TRANSISTOR DTC114TS
Q9	8-729-178-73	TRANSISTOR 2SC2787-K
Q12	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q15	8-729-904-39	TRANSISTOR DTC114TS
Q16	8-729-119-32	TRANSISTOR 2SK193-E
Q17	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q19	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q21	8-729-178-73	TRANSISTOR 2SC2787-K
Q22	8-729-904-39	TRANSISTOR DTC114TS
Q23	8-729-904-39	TRANSISTOR DTC114TS
Q24	8-729-178-73	TRANSISTOR 2SC2787-K
Q26	8-729-178-73	TRANSISTOR 2SC2787-K
Q27	8-729-178-73	TRANSISTOR 2SC2787-K
Q28	8-729-900-80	TRANSISTOR DTC114ES
Q303	8-729-281-53	TRANSISTOR 2SC1815-GR
Q306	8-729-142-46	TRANSISTOR 2SC2001-LK
Q307	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q308	8-729-904-36	TRANSISTOR DTC114YS
Q311	8-729-115-30	TRANSISTOR 2SK105A-30
Q312	8-729-281-53	TRANSISTOR 2SC1815-GR
Q313	8-729-904-36	TRANSISTOR DTC114YS
Q314	8-729-904-36	TRANSISTOR DTC114YS
Q315	8-729-107-26	TRANSISTOR 2SD1585-K
Q316	8-729-195-23	TRANSISTOR 2SA952-K
Q317	8-729-904-36	TRANSISTOR DTC114YS
Q318	8-729-904-36	TRANSISTOR DTC114YS
Q319	8-729-900-61	TRANSISTOR DTA114ES
Q701	8-729-178-73	TRANSISTOR 2SC2787-K
Q702	8-729-178-62	TRANSISTOR 2SC2786-L
Q703	8-729-106-07	TRANSISTOR 2SK514-H
Q704	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q705	8-729-106-07	TRANSISTOR 2SK514-H
RESISTOR		
R1	1-249-441-11	CARBON 100K 5% 1/4W
R3	1-249-437-11	CARBON 47K 5% 1/4W
R5	1-249-417-11	CARBON 1K 5% 1/4W
R7	1-249-421-11	CARBON 2.2K 5% 1/4W
R8	1-249-411-11	CARBON 330 5% 1/4W
R9	1-249-405-11	CARBON 100 5% 1/4W
R10	1-249-429-11	CARBON 10K 5% 1/4W
R11	1-249-429-11	CARBON 10K 5% 1/4W
R12	1-249-427-11	CARBON 6.8K 5% 1/4W
R13	1-249-427-11	CARBON 6.8K 5% 1/4W
R15	1-249-421-11	CARBON 2.2K 5% 1/4W
R16	1-247-887-00	CARBON 220K 5% 1/4W
R17	1-247-887-00	CARBON 220K 5% 1/4W
R18	1-249-405-11	CARBON 100 5% 1/4W
R19	1-249-429-11	CARBON 10K 5% 1/4W
R20	1-249-429-11	CARBON 10K 5% 1/4W
R21	1-249-429-11	CARBON 10K 5% 1/4W
R22	1-249-435-11	CARBON 33K 5% 1/4W
R23	1-249-435-11	CARBON 33K 5% 1/4W
R24	1-249-417-11	CARBON 1K 5% 1/4W
R26	1-249-422-11	CARBON 2.7K 5% 1/4W

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

Ref.No	Part No.	Description							
R27	1-249-429-11	CARBON	10K	5%	1/4W				
R28	1-249-405-11	CARBON	100	5%	1/4W				
R29	1-249-437-11	CARBON	47K	5%	1/4W				
R30	1-249-417-11	CARBON	1K	5%	1/4W				
R31	1-249-423-11	CARBON	3.3K	5%	1/4W				
R32	1-249-420-11	CARBON	1.8K	5%	1/4W				
R34	1-249-407-11	CARBON	150	5%	1/4W				
R35	1-249-441-11	CARBON	100K	5%	1/4W				
R36	1-249-441-11	CARBON	100K	5%	1/4W				
R37	1-249-427-11	CARBON	6.8K	5%	1/4W				
R38	1-249-432-11	CARBON	18K	5%	1/4W				
R39	1-249-417-11	CARBON	1K	5%	1/4W				
R40	1-249-419-11	CARBON	1.5K	5%	1/4W				
R41	1-247-887-00	CARBON	220K	5%	1/4W				
R44	1-249-437-11	CARBON	47K	5%	1/4W				
R45	1-249-415-11	CARBON	680	5%	1/4W				
R46	1-247-903-00	CARBON	1M	5%	1/4W				
R47	1-249-422-11	CARBON	2.7K	5%	1/4W				
R48	1-249-422-11	CARBON	2.7K	5%	1/4W				
R49	1-249-405-11	CARBON	100	5%	1/4W				
R50	1-249-427-11	CARBON	6.8K	5%	1/4W				
R52	1-249-427-11	CARBON	6.8K	5%	1/4W				
R54	1-249-405-11	CARBON	100	5%	1/4W				
R55	1-249-429-11	CARBON	10K	5%	1/4W				
R56	1-249-441-11	CARBON	100K	5%	1/4W				
R57	1-249-402-11	CARBON	56	5%	1/4W				
R58	1-249-409-11	CARBON	220	5%	1/4W				
R59	1-249-407-11	CARBON	150	5%	1/4W				
R60	1-249-411-11	CARBON	330	5%	1/4W				
R61	1-247-903-00	CARBON	1M	5%	1/4W				
R62	1-247-887-00	CARBON	220K	5%	1/4W				
R63	1-249-425-11	CARBON	4.7K	5%	1/4W				
R64	1-249-437-11	CARBON	47K	5%	1/4W				
R67	1-247-887-00	CARBON	220K	5%	1/4W				
R68	1-249-414-11	CARBON	560	5%	1/4W				
R69	1-249-417-11	CARBON	1K	5%	1/4W				
R73	1-249-405-11	CARBON	100	5%	1/4W				
R74	1-249-437-11	CARBON	47K	5%	1/4W				
R75	1-249-417-11	CARBON	1K	5%	1/4W				
R76	1-249-441-11	CARBON	100K	5%	1/4W				
R77	1-249-417-11	CARBON	1K	5%	1/4W				
R78	1-249-417-11	CARBON	1K	5%	1/4W				
R79	1-249-417-11	CARBON	1K	5%	1/4W				
R81	1-249-405-11	CARBON	100	5%	1/4W				
R86	1-249-441-11	CARBON	100K	5%	1/4W				
R101	1-249-409-11	CARBON MELF	220	5%	1/8W				
R102	1-249-409-11	CARBON MELF	220	5%	1/8W				
R103	1-249-406-11	CARBON MELF	120	5%	1/8W				
R104	1-215-479-00	CARBON MELF	270K	5%	1/8W				
R105	1-249-426-11	CARBON MELF	5.6K	5%	1/8W				
R106	1-249-428-11	CARBON MELF	8.2K	5%	1/8W				
R120	1-249-429-11	CARBON MELF	10K	5%	1/8W				
R121	1-249-417-11	CARBON MELF	1K	5%	1/8W				
R122	1-249-403-11	CARBON MELF	68	5%	1/8W				
R123	1-249-406-11	CARBON MELF	120	5%	1/8W				
R125	1-249-425-11	CARBON MELF	4.7K	5%	1/8W				
R126	1-249-421-11	CARBON MELF	2.2K	5%	1/8W				
R201	1-249-409-11	CARBON MELF	220	5%	1/8W				
R202	1-249-409-11	CARBON MELF	220	5%	1/8W				
R203	1-249-406-11	CARBON MELF	120	5%	1/8W				
R204	1-215-479-00	CARBON MELF	270K	5%	1/8W				
R205	1-249-426-11	CARBON MELF	5.6K	5%	1/8W				
R206	1-249-428-11	CARBON MELF	8.2K	5%	1/8W				
R220	1-249-429-11	CARBON MELF	10K	5%	1/8W				
R221	1-249-417-11	CARBON MELF	1K	5%	1/8W				
R222	1-249-403-11	CARBON MELF	68	5%	1/8W				
R223	1-249-406-11	CARBON MELF	120	5%	1/8W				
R225	1-249-425-11	CARBON MELF	4.7K	5%	1/8W				
R226	1-249-421-11	CARBON MELF	2.2K	5%	1/8W				
R301	1-249-419-11	CARBON MELF	1.5K	5%	1/8W				
R302	1-215-485-00	CARBON MELF	470K	5%	1/8W				
R303	1-249-427-11	CARBON MELF	6.8K	5%	1/8W				
R307	1-216-296-00	CARBON MELF	0	5%	1/8W				
R308	1-249-427-11	CARBON MELF	6.8K	5%	1/8W				
R309	1-249-390-11	CARBON MELF	5.6	5%	1/8W				
R310	1-247-820-11	CARBON MELF	360	5%	1/8W				
R317	1-249-405-11	CARBON MELF	100	5%	1/8W				
R318	1-249-411-11	CARBON MELF	330	5%	1/8W				
R319	1-249-410-11	CARBON MELF	270	5%	1/8W				
R320	1-249-416-11	CARBON MELF	820	5%	1/8W				
R321	△ 1-217-642-00	FUSIBLE	6.8	5%	1/4W	F			
R322	1-249-441-11	CARBON MELF	100K	5%	1/8W				
R323	1-249-417-11	CARBON MELF	1K	5%	1/8W				
R327	1-249-441-11	CARBON MELF	100K	5%	1/8W				
R328	1-249-423-11	CARBON MELF	3.3K	5%	1/8W				
R329	1-249-425-11	CARBON MELF	4.7K	5%	1/8W				
R332	1-249-429-11	CARBON MELF	10K	5%	1/8W				
R335	1-249-427-11	CARBON MELF	6.8K	5%	1/8W				
R337	△ 1-217-639-00	FUSIBLE	2.2	5%	1/4W	F			
R338	1-249-413-11	CARBON MELF	470	5%	1/8W				
R339	1-249-407-11	CARBON MELF	150	5%	1/8W				
R340	1-215-394-00	CARBON MELF	75	5%	1/8W				
R341	1-249-417-11	CARBON MELF	1K	5%	1/8W				
R342	1-249-426-11	CARBON MELF	5.6K	5%	1/8W				
R343	1-249-423-11	CARBON MELF	3.3K	5%	1/8W				
R345	1-249-429-11	CARBON MELF	10K	5%	1/8W				
R346	1-249-437-11	CARBON MELF	47K	5%	1/8W				
R347	1-249-427-11	CARBON MELF	6.8K	5%	1/8W				
R350	1-249-413-11	CARBON MELF	470	5%	1/8W				
R351	1-249-433-11	CARBON MELF	22K	5%	1/8W				
R352	1-249-417-11	CARBON MELF	1K	5%	1/8W				
R701	1-247-804-11	CARBON	75	5%	1/4W				
R702	1-249-441-11	CARBON	100K	5%	1/4W				
R703	1-249-415-11	CARBON	680	5%	1/4W				
R704	1-249-441-11	CARBON	100K	5%	1/4W				
R705	1-249-415-11	CARBON	680	5%	1/4W				
R706	1-249-420-11	CARBON	1.8K	5%	1/4W				
R707	1-249-405-11	CARBON	100	5%	1/4W				
R708	1-249-417-11	CARBON	1K	5%	1/4W				
R709	1-249-423-11	CARBON	3.3K	5%	1/4W				
R710	1-249-437-11	CARBON	47K	5%	1/4W				
R711	1-249-435-11	CARBON	33K	5%	1/4W				
R712	1-249-441-11	CARBON	100K	5%	1/4W				
R713	1-249-422-11	CARBON	2.7K	5%	1/4W				
R714	1-247-854-11	CARBON	9.1K	5%	1/4W				
R715	1-249-420-11	CARBON	1.8K	5%	1/4W				
R716	1-249-418-11	CARBON	1.2K	5%	1/4W				
R717	1-249-431-11	CARBON	15K	5%	1/4W				
R718	1-249-426-11	CARBON	5.6K	5%	1/4W				
R719	1-249-426-11	CARBON	5.6K	5%	1/4W				
R720	1-249-426-11	CARBON	5.6K	5%	1/4W				
R721	1-249-426-11	CARBON	5.6K	5%	1/4W				
RV1	1-238-601-11	RES. ADJ, CARBON 22K							
RV301	1-238-430-11	RES. VAR, CARBON 20K/20K (VOLUME)							
RV302	1-238-431-11	RES. VAR, CARBON 20K/20K (TONE)							
RV303	1-241-036-21	RES. ADJ, CARBON 1K							
RV304	1-241-036-21	RES. ADJ, CARBON 1K							
S1	1-571-042-11	SWITCH, PUSH (1 KEY) (SENS)							
S301	1-572-325-11	SWITCH, SLIDE (REC/PB)							
S302	1-572-299-11	SWITCH, LEVER SLIDE (FUNCTION)							

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

Ref.No	Part No.	Description
S303	1-554-222-00	SWITCH, SLIDE (MW TUNING INTERVAL)
S401	1-571-330-21	SWITCH, LEAF (POWER)
S402	1-571-890-11	SWITCH, LEAF (HIGH SPEED)
S411	1-571-890-11	SWITCH, LEAF (POWER)
S412	1-571-890-11	SWITCH, LEAF (FWD)
S701	1-554-303-21	SWITCH, KEY BOARD (BAND FM/SW/MW)
S703	1-554-303-21	SWITCH, KEY BOARD (MEMORY)
S704	1-554-303-21	SWITCH, KEY BOARD (TUNING -)
S705	1-554-303-21	SWITCH, KEY BOARD (TUNING +)
S706	1-554-303-21	SWITCH, KEY BOARD (0)
S707	1-554-303-21	SWITCH, KEY BOARD (1)
S708	1-554-303-21	SWITCH, KEY BOARD (2)
S709	1-554-303-21	SWITCH, KEY BOARD (3)
S710	1-554-303-21	SWITCH, KEY BOARD (4)
S711	1-554-303-21	SWITCH, KEY BOARD (5)
S712	1-554-303-21	SWITCH, KEY BOARD (6)
S713	1-554-303-21	SWITCH, KEY BOARD (7)
S714	1-554-303-21	SWITCH, KEY BOARD (8)
S715	1-554-303-21	SWITCH, KEY BOARD (9)
S716	1-554-303-21	SWITCH, KEY BOARD (+10)
S801	△.1-572-290-11	SWITCH, POWER (VOLTAGE SELECTOR)
SP901	1-544-154-11	SPEAKER
SP902	1-544-154-11	SPEAKER
T1	1-460-074-11	COIL
T2	1-406-395-11	COIL (SW2 OSC)
T3	1-406-394-11	COIL (SW1 OSC)
T4	1-404-355-00	TRANSFORMER, IF
T81	1-449-385-11	TRANSFORMER, DC-DC CONVERTER
T301	1-433-346-11	TRANSFORMER, BIAS OSCILLATION
T801	△.1-450-015-11	TRANSFORMER, POWER
X701	1-567-769-11	VIBRATOR, CRYSTAL
MIC901	1-542-092-11	MICROPHONE, ELECTRET CONDENSER

ACCESSORIES & PACKING GROUP

△.1-555-234-00	CORD, POWER
3-752-130-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, GERMAN)
△.1-506-401-31	(EA) ... ADAPTOR, CONVERSION
*3-757-551-01	CUSHION (L)
*3-757-588-01	CUSHION (R)
*3-762-641-01	INDIVIDUAL CARTON
*3-704-284-01	SHEET, PROTECTION

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

