TOSHIBA

COMPACT DISC PLAYER

XR-9458/XR-P21

SPECIFICATIONS

■ Compact Disc Player

Type:	Compact Disc player with optical pickup
No. of channels:	2 (stereo)
Frequency response:	5 Hz — 20 kHz, +0.5 dB −1.5 dB
Dynamic range:	84 dB
Total harmonic distortion:	0.01% (1 kHz)
Channel separation:	75 dB (1 kHz)
Wow and flutter:	Unmeasurable
Pickup:	Semiconductor laser
Random access:	By track number
Output level:	Line out: 0.8V, Phones: 0.2V (16 ohms)
Power supply:	DC 3V, ("AA" cell x 2) Battery pack BU-R210 For external power supply AC adaptor TAC-210 Car battery adaptor TCA-210 (optional)
Dimensions:	126(W) x 23.9(H) x 129(D) mm
Weight:	460 g

■ AC Adaptor

Output Level:	DC 3.8V, 370mA
Power supply:	AC 120V, 60 Hz (U.S.A., Canada) AC 220V, 50 Hz (Europe) AC 240V, 50 Hz (U.K., Australia) AC 110 — 127V/220 — 240V 50/60 Hz (Others, Saudi Arabia)
Dimensions:	151(W) x 68.2(H) x 146(D) mm
Weight:	560 g

Specifications are subject to change without notice.

XR-9458-TA, TC, TE, TU, AY: XR-P21-VS (VF)

PRINTED IN JAPAN 22905805 Apr., 1988 ⑤

CAUTION
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT LOOK INTO THE OPTICAL LENS AT ANYTIME.

OBS! Apparaten innehåller laserkomponent som avger laserstrålning överstigande gränsen för laserklass 1.

"CLASS 1 LASER PRODUCT"

ADVARSEL

Denne mærkning er anbragt udvendigt på apparatet og indikerer, at appapatet arbejder med laserstråler af klasse 1, hvilket betyder, at der anvendes laserstråler at svageste klasse, og at man ikke på apparatets yderside kan blive udsat for utilladelig kraftig stråling.

APPARATET BOR KUN ÅBNES AF FAGFOLK MED SAERLIGT KENDSKAB TIL APPARATER MED LASERSTRÅLER!

ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDER ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.

Indvendigt i apparatet er anbragt den her gengivne advarselsmærkning, som advarer imod at foretage sådanne indgreb i apparatet, at man kan komme til at udsætte sig for laserstråling.

Varoitus: Laite sisältää laserdiodin, joka lähettää näkymätöntä silmille vaarallista lasersäteilyä.

CAUTION: This equipment contains a laser diode which causes invisible laser radiation, which is dangerous to eyes.
Inside of the equipment, there is a warning marking of laser radiation.

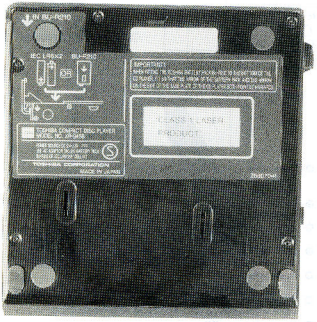
"CLASS 1 LASER PRODUCT"

CAUTION: This model is classified as a "CLASS I LASER PRODUCT".

CLASS 1 LASER PRODUCT

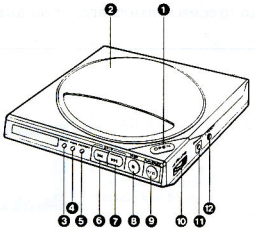
RADIO INTERFERENCE REGULATIONS

THIS APPARATUS HAS BEEN PRODUCED TO COMPLY WITH "DIRECTIVE NO. 82/499/EEC".

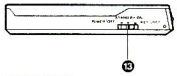


CAUTION: Before returning the unit to the customer, check that the resistance between both blades of AC plug and any accessible metal parts is more than 3MΩ after completion of servicing, using the circuit tester. (U.S.A. model only)

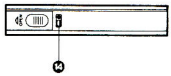
OPERATING CONTROLS



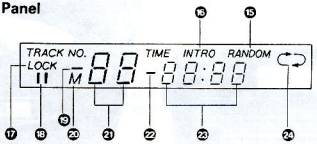
Left Side



Rear Side



Display Panel



❶ **Open Button [OPEN]**

❷ **Disc Cover**

❸ **Display Select Button [DISPLAY]**
Press this button to switch between the four displays in the following order:
(1) Number of the track being played and elapsed time on the disc
(2) Remaining track number and time on the disc
(3) Remaining time on the track being played
(4) Contents of programmed memory

❹ **Mode Select Button [MODE]**
This button selects one of the three modes: repeat playback, random playback, intro scan (automatic search of the introductions of tracks). This button operates only during playback.

❺ **Memory Button [MEMORY]**
Press this button to store the desired track during playback.

❻ **Reverse Button [⏮ SKIP]**

❼ **Forward Button [⏭ SKIP]**

❽ **Stop Button [■ STOP]**

❾ **Play/Pause Button [▶/II PLAY/PAUSE]**

❿ **Volume Control [VOLUME]**
Volume control for the headphones connected to the headphones jack.

⓫ **Headphone Jack (3.5 mm in diameter) [PHONES]**
Plug in the headphones or wired remote control.

⓬ **Line Out Jack [LINE OUT]**
This jack is used when connecting this player to an amplifier or stereo radio/cassette recorder using the supplied connection cable.

⓭ **Power Switch [POWER]**
When this switch is set to "STAND BY/ON", the power goes on to enter the standby mode. Pressing the [▶/II] button❾ turns on the indicator and activates the disc play. When set to "POWER OFF", the power goes off. If set to "KEY LOCK", the buttons no longer operate.

⓮ **Power Jack**
Connect the AC adaptor TAC-210/TAA-321 or car battery adaptor TCA-210 to this jack.

⓯ **Random Play Indicator [RANDOM]**
Lights during random disc play.

⓰ **Intro Scan Indicator [INTRO]**
Lights during automatic playback of beginning of tracks.

⓱ **Lock Indicator [LOCK]**
This indicator lights when the [POWER] switch is set to "KEY LOCK".

⓲ **Pause Indicator [II]**
Lights when the pause mode is activated.

⓳ **Display Mode Indicator [—]**
Lights when the no. of remaining tracks are indicated.

⓴ **Memory Indicator [M]**

㉑ **Track No. Indicator [TRACK NO.]**
Shows either the number of the track currently being played or the remaining number of tracks or total number of tracks in the disc.

㉒ **Display Mode Indicator [—]**
Lights when the remaining time is indicated.

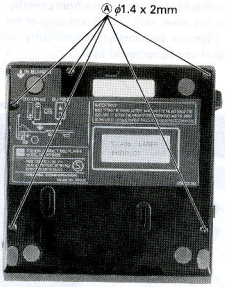
㉓ **Time Indicator [TIME]**
Indicates the elapse time or remaining time for each track. Indicates the program step no. during memory play.
This indicator also shows the total play time or remaining time on the disc.

㉔ **Repeat Indicator [⊂⊃]**
Lights during repeat disc play.

DISASSEMBLY INSTRUCTIONS

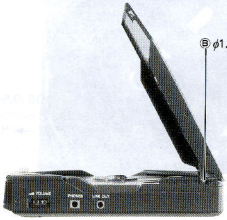
BOTTOM PLATE REMOVAL

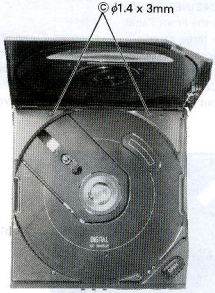
1. Remove five screws Ⓐ.



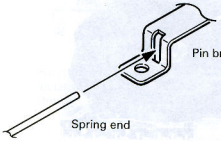
DISC COVER REMOVAL

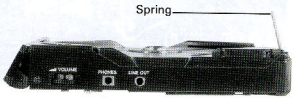
1. Open the disc cover.
2. Remove one lock arm screw Ⓑ.
3. Remove two screws Ⓒ.





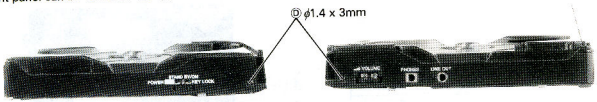
Note: The hinge screws are not easy to screw in into the hinge holes when mounting the disc cover. So insert a piece of hard paper under the hinge to hold the hinge in place, and tighten the screws. A spring is used for opening the disc cover. Thrust in the spring end into the hole of the pin bracket, which is mounted on the disc cover, then mount the disc cover.





FRONT PANEL REMOVAL

1. Remove the bottom plate.
2. Remove two screws Ⓓ. Since the upper side of the front panel is hooked, remove the front panel by opening from the lower side (P.C. Board side) of the front panel. (Remove two screws Ⓔ' previously, and the front panel can be removed easily.)



Upper side

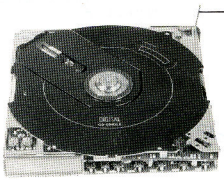
Lower side

MOLDED CABINET REMOVAL

1. Remove the Front Panel.
2. Remove three screws Ⓔ, two screws Ⓕ and Ⓖ. Remove the molded cabinet while pushing the panel side of the molded cabinet in the direction of the arrows Ⓗ.

   Note: Carefully remove the phone jack and line out jack as these are not easy to remove.

Note: Before mounting the molded cabinet, make sure that the disc cover opening spring is attached.



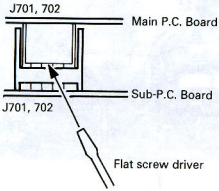
MAIN P.C. BOARD REMOVAL

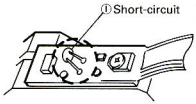
1. **When removing the Main P.C. Board, be sure to short-circuit the laser pickup terminal Ⓘ by soldering.**
2. Remove two screws Ⓙ.
3. Unsolder three locations Ⓚ and Ⓛ at the battery springs.
4. Disengage two connectors Ⓜ.

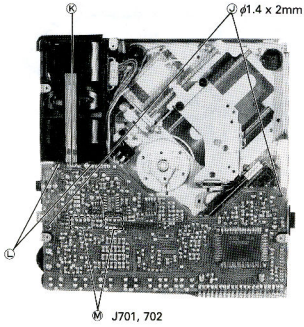
* **Connector Removal**

Thrust in a flat screw driver between the connectors and swing the screw driver to left and right to widen the clearance gradually.

Note: Take care not to break the P.C. Board pattern.





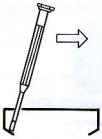


SUB-P.C. BOARD REMOVAL

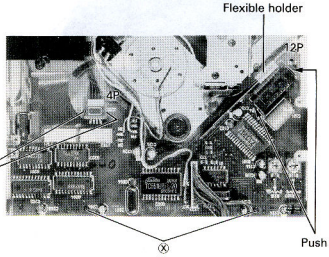
1. Remove two screws Ⓧ.

Flexible P.C. Board Removal

1. The Flexible P.C. Board (4P) is hooked on the metal strap. Insert the flat screw driver (the smallest size one for clock repair) in the metal strap hole and release the lower hook.
2. Push both sides of the Flexible P.C. Board (12P) socket, and the Flexible P.C. Board can be removed.

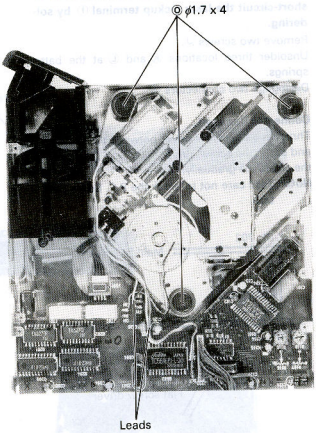


Insert a flat screw driver into the flexible metal strap hole and open the side of the strap.



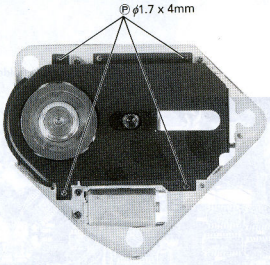
MECHANISM REMOVAL

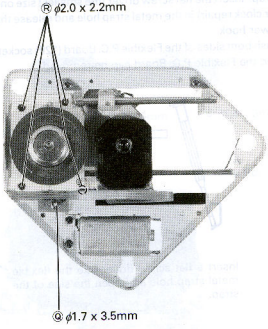
1. Disengage the Flexible P.W. Board and the leads from motor and switch.
2. Remove three screws ⓠ.



DISC MOTOR REMOVAL

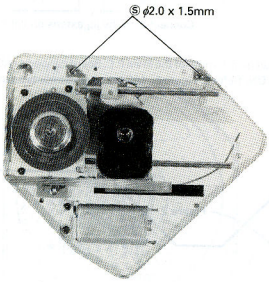
1. Remove four screws Ⓟ.
2. Remove one screw Ⓠ from the Flexible P.W. Board and four screws Ⓡ from the motor.

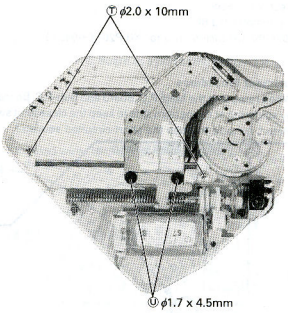




LASER PICKUP ARM REMOVAL

1. Remove two screws Ⓢ.
2. Remove two screws Ⓣ, and two screws Ⓤ.

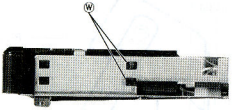


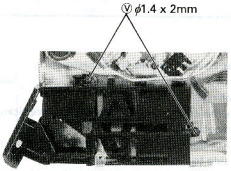


BATTERY COMPARTMENT REMOVAL

1. Remove two screws Ⓥ.
2. Disengage two hooks Ⓦ.

Note: In the process of removing only the upper side of the battery compartment, the battery supporter tend to jump out. So take care not to miss it.



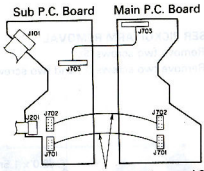


After mounting, desolder the short-circuited terminal on the laser pickup.

CURRENT CONSUMPTION

Stand-by: Approx. 1mA, Stop: Approx. 190mA, Play outer circle: Approx. 270mA, Play inner circle: Approx. 290mA

ADJUSTMENTS



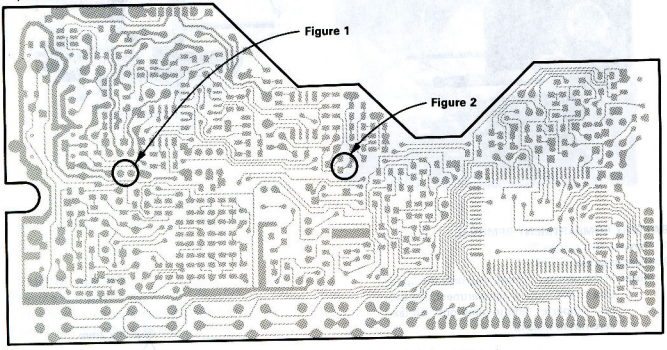
Connect with the jig extension cord 8P.

Adjustment Jigs

1. Laser power meter
2. Oscilloscope
3. Test disc YEDS-7
4. Extension cord 8P
   (Use the extension cord for XR-P20/XR-9457.)

Adjustment Procedures

* When removing the Main P.C. Board and Sub-P.C. Board, short-circuit pins ④and ⑥of the Main P.C. Board connector (J701) by soldering at the pattern side to keep the close limit switch (S801) ON. Refer to Figure 1. (After the adjustments are completed, be sure to open the short-circuited section.)



Main P.C. Board

1. Laser Power Preliminary Adjustment

Remove the Main P.C. Board and Sub-P.C. Board from the chassis.

* Make this adjustment before mounting the pickup arm to the mechanism.

(1) Cut the Q809 base at the Main P.C. Board pattern side to open LDC. (Figure 2)

(2) Insert the pickup Flexible P.W. Board into the socket of the Sub-P.C. Board.

(3) Remove the pickup shorting pin by unsoldering with the soldering iron. (Figure 3)

(4) Connect the DC supply, turn the power switch S608 on, and push the PLAY switch.

(5) Apply the laser power meter sensor to the pickup lens and adjust VR1 on the pickup arm so that the meter indicates 160μW.

* There is no stopper on VR1. The service part is originally set to MIN position. Adjust VR1 by rotating clockwise.

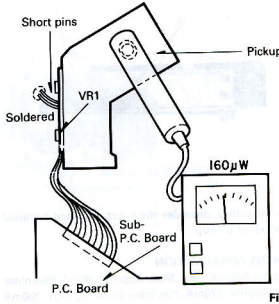


Figure 3

(6) After the preliminary adjustment, solder the short pins on the pickup arm to short-circuit them. Resolder the pattern cut that was previously cut in item (1) above.
(7) Mount the pickup arm and the P.C. Boards to the chassis. After mounting is all completed, disconnect the short pins on the pickup arm with the soldering iron.

2. Tracking Error Balance Adjustment

(1) Remove three screws from the clamper holder, and the clamper holder can be removed.
(It will be used for holding the test disc.) (Figure 4)
(2) Make test terminals at the TP pattern position on the Sub-P.C. Board.
(Affix lead wires to the TP terminals as the TP terminals are printed on the P.C. Board as a port of the pattern.) (Figure 5)

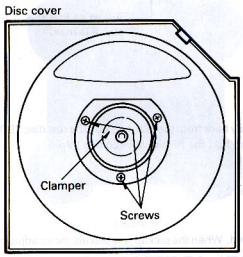


Figure 4

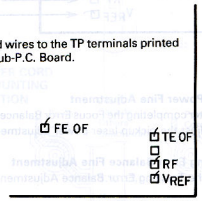


Figure 5

(3) Connect the oscilloscope across the test terminals TE OF and VREF. (Figure 6)
(4) Turn the power switch S608 on, play back the test disc YEDS-7, and search the 1st track on the disc.
(5) Adjust TE BAL VR R107 (100k ohms) so that the waveform center on the oscilloscope becomes 0V ±10mV.
* If the tracking error signal stops, adjust again by repeating search operation.

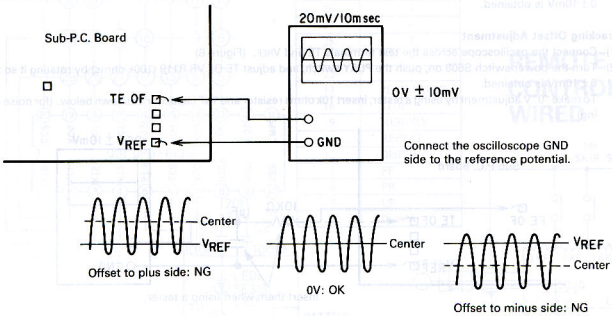


Figure 6

3. Focus Error Balance Adjustment

(1) Connect the oscilloscope across the test terminals RF and VREF. (Figure 7)

(2) Play back the test disc YEDS-7 and adjust FE BAL VR R115 (20k ohms) so that the 3T waveform of the RF signal (eye pattern) is max.

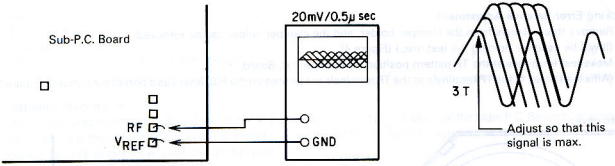


Figure 7

4. Laser Power Fine Adjustment

(1) After completing the Focus Error Balance Adjustment in section 3, play back from the 36th track on the test disc YEDS-7.

(2) Adjust the pickup laser power adjustment VR (VR1) by rotating it so that the RF signal becomes 1Vp-p.

5. Tracking Error Balance Fine Adjustment

Make the Tracking Error Balance Adjustment again as shown in section 2.

6. Other Adjustments (Tracking, Focus Offset)

Make these adjustments mainly when Q101 TA8101F (Servo IC) is replaced. When the pickup is replaced, these adjustment are not necessary.

* Make adjustments on the P.C. Board Assembly only. Open the Main P.C. Board and Sub-P.C. Board with the connector terminal J703 12P connected. Connect the connector terminal J701 8P on the opened Main P.C. Board and Sub-P.C. Board with the extension cord jig 8P. Do not connect J702. (Do not mount the mechanism assembly.)

* Affix wires for testing purpose to the TP terminals FE OF, TE OF, and VREF.

● **Focus Offset Adjustment**

(1) Connect the oscilloscope across the test terminals FE and VREF. (Figure 8)

(2) Turn the power switch S608 on, push the PLAY switch, and adjust FE OF VR R116 (100k ohm) by rotating it so that 0 ± 10mV is obtained.

● **Tracking Offset Adjustment**

(1) Connect the oscilloscope across the test terminals TE and VREF. (Figure 8)

(2) Turn the power switch S608 on, push the PLAY switch, and adjust TE OF VR R119 (100k ohms) by rotating it so that 0 ± 10mV is obtained.

* To make "0" V adjustment by using a tester, insert 10k ohms resistor and 1 μF capacitor as shown below. (for noise cutting)

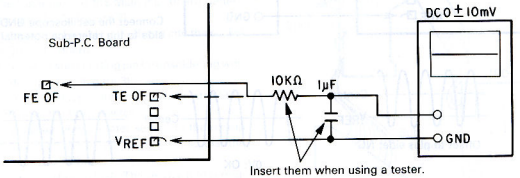


Figure 8

AC ADAPTOR (TAC-210)

TOP COVER REMOVAL

1. Remove four screws Ⓐ , and the Top Cover will be removed.

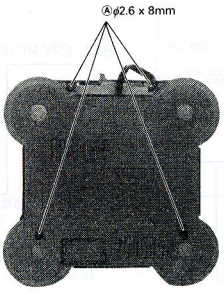


Figure 9

TRANSFORMER P.C. BOARD HOLDER MOUNTING POSITION

1. Mount the holder the P.C. Board side as illustrated.

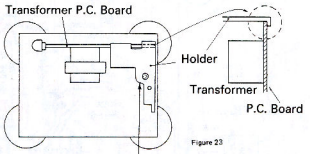


Figure 23

■ **POWER CORD MOUNTING POSITION**

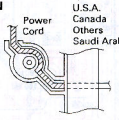


Figure 11

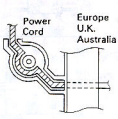
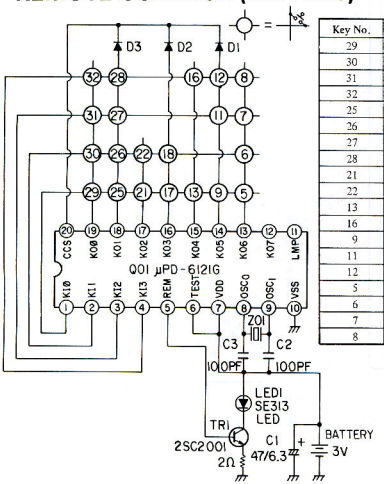


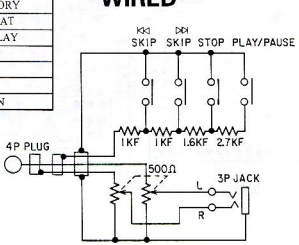
Figure 12

REMOTE CONTROL (RM-A210)

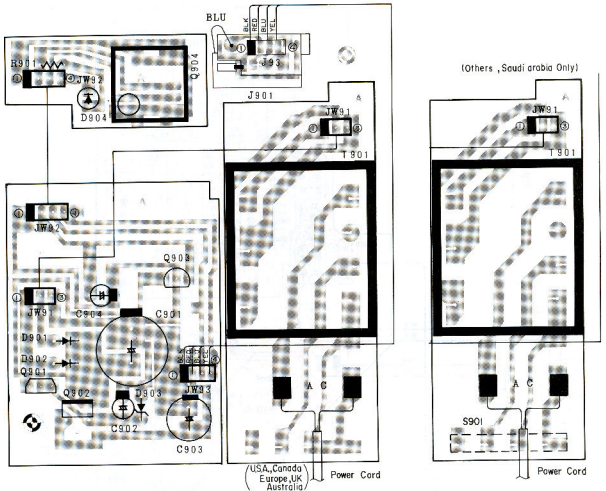


Key No.	Key Operation
29	0
30	1
31	2
32	3
25	4
26	5
27	6
28	7
21	8
22	9
13	PLAY/PAUSE
16	STOP
9	MEMORY
11	REPEAT
12	DISPLAY
5	FF
6	FR
7	UP
8	DOWN

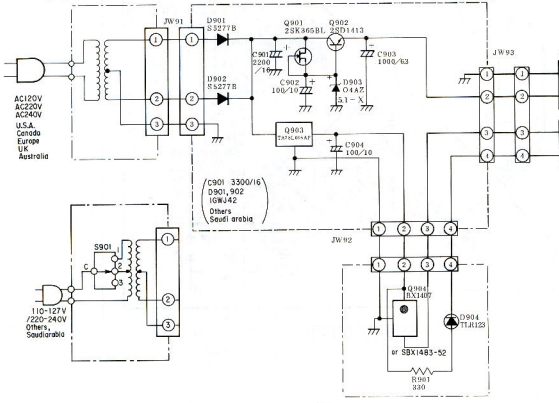
REMOTE CONTROL WIRED



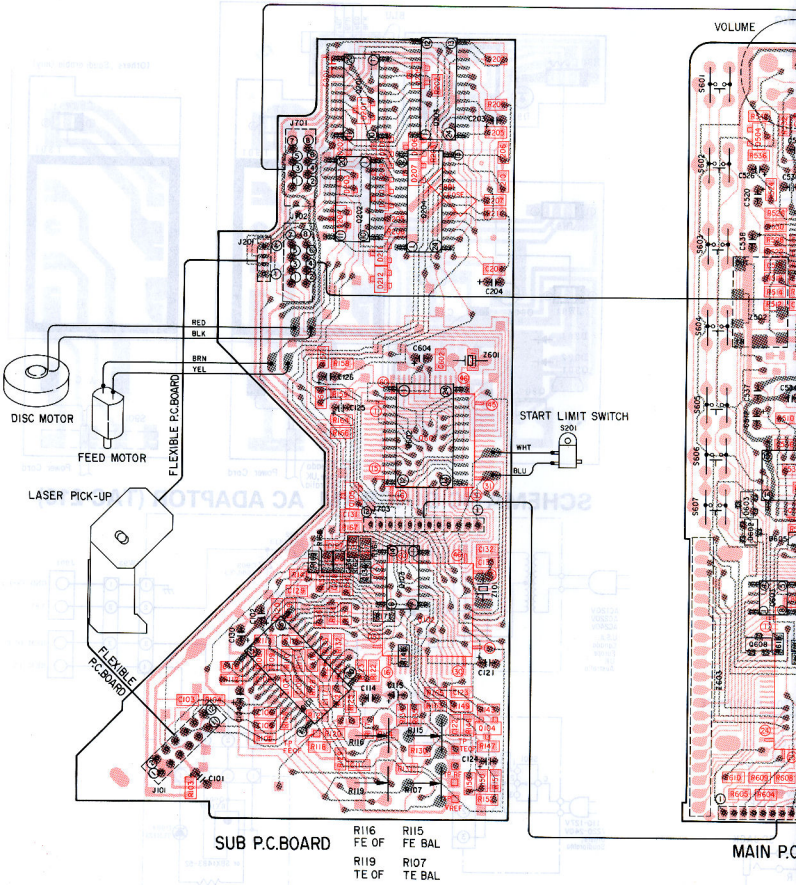
ELECTRICAL PARTS LOCATIONS AC ADAPTOR (TAC-210)



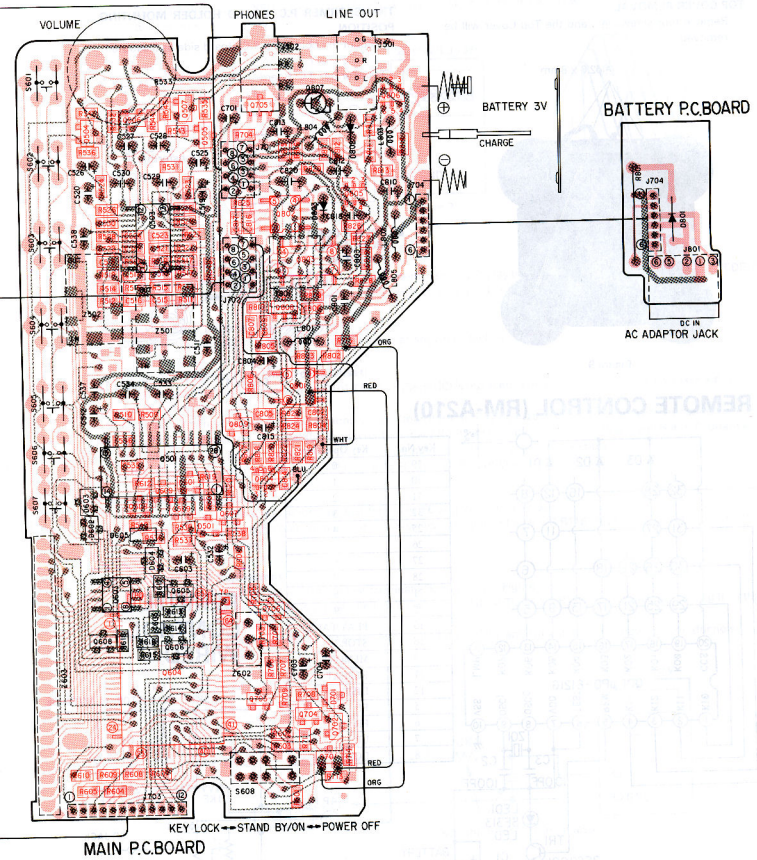
SCHEMATIC DIAGRAM AC ADAPTOR (TAC-210)



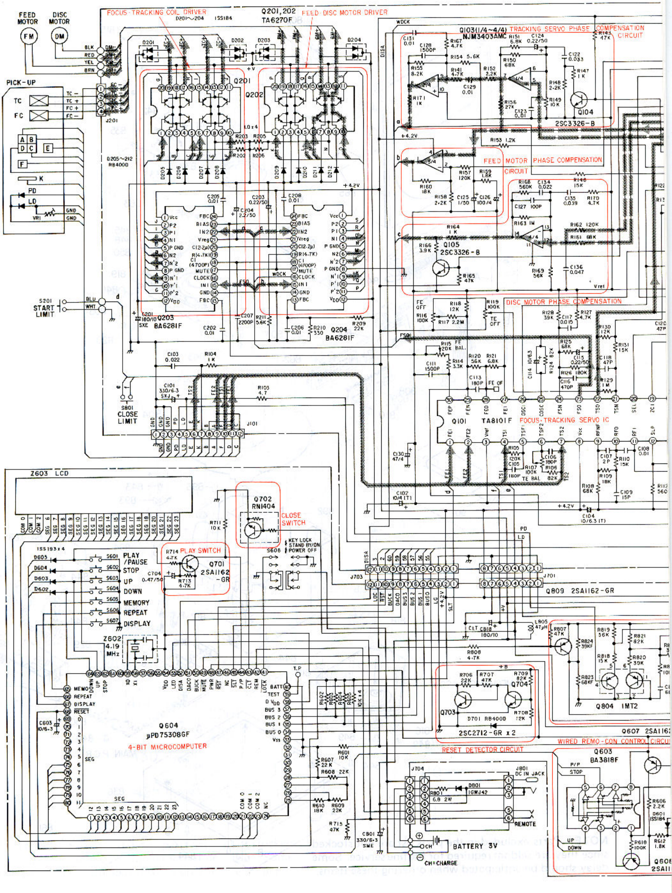
ELECTRICAL PARTS LOCA



ARTS LOCATIONS

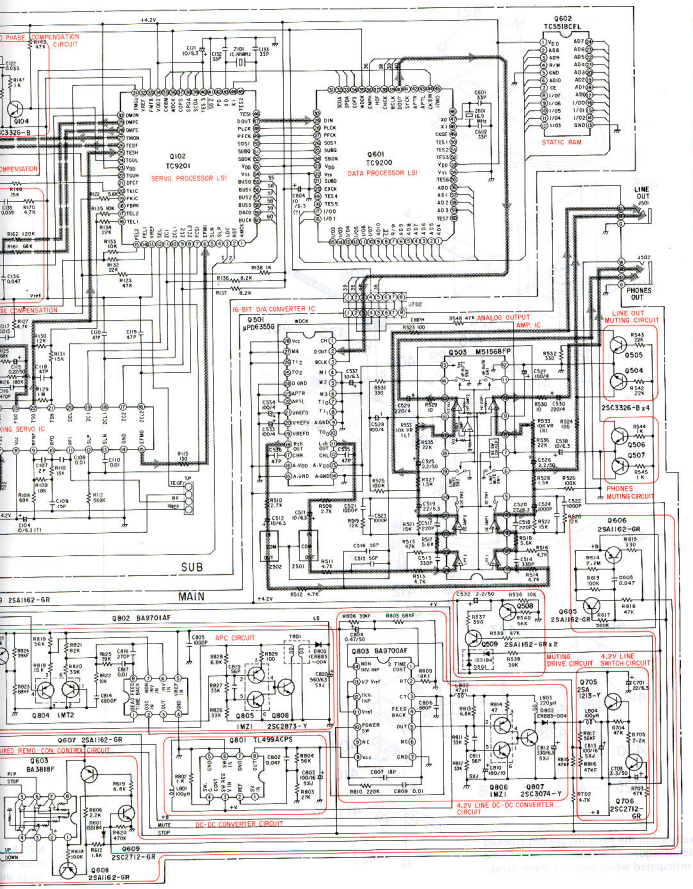


SCHEMAT

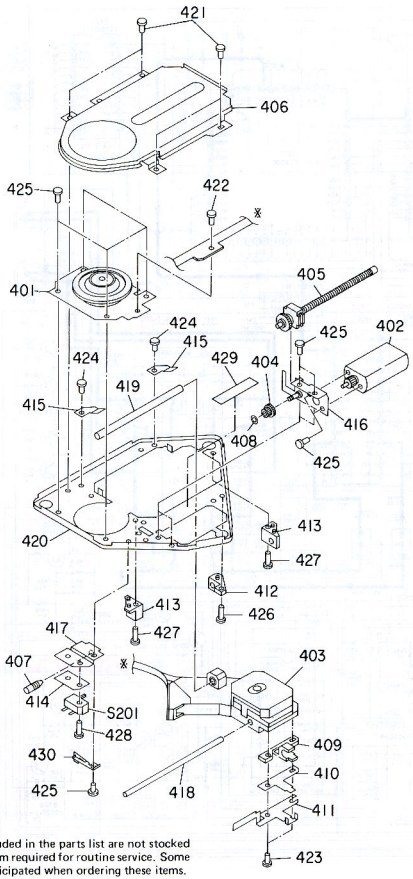


FEED MOTOR
DISC MOTOR
PICK-UP
FOCUS·TRACKING COIL DRIVER
Q201,202 TA6270F
FEED·DISC MOTOR DRIVER
Q103(1/4~4/4) NJM3403AMC
TRACKING SERVO PHASE COMPENSATION CIRCUIT
2SC3326-B
FEED MOTOR PHASE COMPENSATION CIRCUIT
Q105 2SC3326-B
DISC MOTOR PHASE COMPENSATION
Q203 BA6281F
Q204 BA6281F
S201 START LIMIT
S801 CLOSE LIMIT
Q101 TA8101F FOCUS·TRACKING SERVO IC
Z603 LCD
Q702 RN1404
CLOSE SWITCH
PLAY SWITCH
Q701 2SA1162-GR
PLAY /PAUSE
STOP
UP
DOWN
MEMORY
REPEAT
DISPLAY
KEY LOCK
STAND BY/ON
POWER OFF
Z602 4.19 MHz
Q604 μPD75308GF
4-BIT MICROCOMPUTER
Q809 2SA1162-GR
Q804 IMT2
Q703 Q704
D701 RB400D
2SC2712-GR x 2
RESET DETECTOR CIRCUIT
Q607 2SA116
WIRED REMO-CON CONTROL CIRCUI
Q603 BA3818F
J801 DC IN JACK
REMOTE
BATTERY 3V
CH=CHARGE

CHEMATIC DIAGRAM

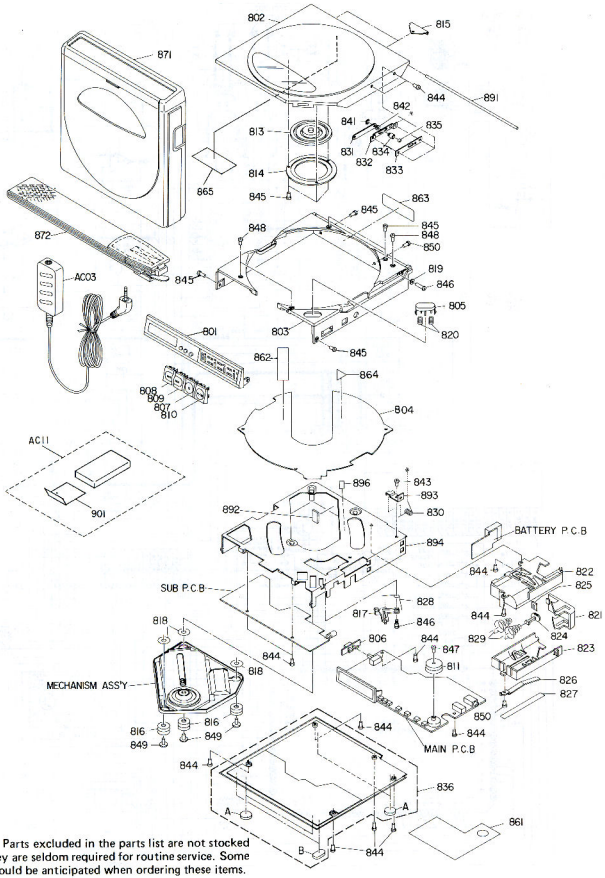


CD PLAYER MECHANISM EXPLODED VIEW



NOTE: Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CABINET EXPLODED VIEW



NOTE: Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CABINET PARTS LIST

Location No.	Part No.	Description
801	22829100	PANEL ASSY, FRONT
802	20823158	COVER ASSY, DISC XR-9458-K
802	20823159	COVER ASSY, DISC XR-P21-K
803	22886024	CABINET, MOLD
804	22838281	DECORATION PLATE, TRAY
805	22885117	KNOB OPEN
806	22885122	KNOB LOCK
807	22885123	KNOB STOP
808	22885120	KNOB DOWN
809	22885119	KNOB UP
810	22885118	KNOB PLAY
811	22885025	KNOB VOLUME
813	20754322	CLAMPER ASSY
814	20024463	RING CLAMPER
815	20024460	HINGE DISC COVER
816	25761554	CUSHION, FRONT MECHANISM
817	20754392	LOCK LEVER
818	25766502	WASHER, 4.1X8.0X0.5T, PO
819	20792052	WASHER, 1.65X3.5X0.9MM, PO BRAKE
820	25777778	SPRING OPEN KNOB
821	22882274	COVER ASSY, BATTERY
822	20832169	CASE, TOP BATTERY
823	20832170	CASE, BOTTOM BATTERY
824	20832174	SUPPORTER BATTERY
825	20024456	CONTACT, PLUS BATTERY
826	20024465	CONTACT CHARGE
827	22766382	SHEET BATTERY
828	25778605	SPRING TORSION
829	25777777	SPRING BATTERY
830	25778606	SPRING DISC COVER
831	20024340	LOCK ARM
832	20024457	BRACKET, PIN
833	20024458	PLATE, CLICK
834	22746250	PIN, CLICK
835	25757129	STEEL BALL, 2.0MM
836	20016066	PLATE ASSY, BOTTOM
841	25735259	E RING, 1.2MM
842	25766374	WASHER, 1.6X3.5X0.1T, PO
843	22707967	SCREW, 1.4X1.2MM, B, PAN
844	22709180	SCREW, 1.4X2MM, B, APAN
845	22707612	SCREW, 1.4X3MM, B, PANFL
846	22708795	SCREW, 1.4X3.2MM, SPECIAL
847	22708091	SCREW, 1.4X4MM, B, PAN
848	22709248	SCREW, 1.4X5MM, B, APAN
849	22708794	SCREW, 1.7X4MM, SPECIAL
850	22708329	SCREW, 1.7X6.0MM, B, 2TXPAN
861	25807039	NAME LABEL (USA)
861	25807040	NAME LABEL (CANADA, AUSTRALIA, OTHERS, SAUDIARABIA)
861	25807041	NAME LABEL (EUROPE)
861	25807042	NAME LABEL (UK)
862	22907360	LABEL, CAUTION, LENS
863	22907516	LABEL, DC IN
864	22906499	LABEL, CAUTION, LASER (EUROPE, UK)
865	22906585	LABEL, CAUTION (EUROPE)
871	22886035	CASE ASSY, CARRYING
872	22993071	SHOULDER BAND
901	20832190	COVER, BATTERY REMOTE CONTROL

CD PLAYER MECHANISM PARTS LIST

Location No.	Part No.	Description
401	25792415	MOTOR ASSY, DISC
402	25792416	MOTOR ASSY, FEED
403	22155245	LASER PICK-UP, DLAB4
404	20727265	GEAR FEED MOTOR
405	20764467	SCREW ASSY WITH GEAR
406	20743241	COVER PICK-UP
407	20776149	SCREW, THRUST
408	25766191	WASHER, 1.5X3.5X0.4T, PO
409	20748486	RACK FEED
410	25779731	SPRING RACK
412	20748484	HOLDER SCREW ASSY
413	20748482	HOLDER SHAFT
421	22708175	SCREW, 1.7X4MM, B, PAN
422	22708310	SCREW, 1.7X3.5MM, C, PAN
423	22708621	SCREW, 1.7X4.5MM, B, PAN
424	22708647	SCREW, 2.0X1.5MM, B, PAN
425	22708336	SCREW, 2.0X2.2MM, B, PAN
426	22708524	SCREW, 2.0X4MM, Z, BID
427	22708576	SCREW, 2.0X10MM, Z, BID
428	22708871	SCREW, 2.0X5MM, B, PAN
430	25779750	SPRING SWITCH

Location No.	Part No.	Description

PARTS LIST

CAUTION:
The ⚠ mark, the Location No. circled with oval in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

ABBREVIATIONS

1. **CAPACITOR:** CD — Ceramic Disk, PF — Plastic Film, BL — Barrier Layer, EL — Electrolytic, MY — Mylar, PP — Polypropylene, PS — Polystyrene, TT — Tantalum, PE — Polyethylene
   MFD — Microfarad, PF — Picofarad, V — Voltage, NP — Non Polarity
2. **RESISTOR:** CF — Carbon Film, CC — Carbon Composition, OMF — Oxide Metal Film, MF — Metal Film
   K — Kilo (1000), M — Mega (1000000)
3. **TOLERANCE**

Symbol	F	G	J	K	M	N	Z	P
%	±1	±2	±5	±10	±20	±30	−20+80	0+100

Symbol	C	D
pF	±0.25	±0.5

IC'S/TRANSISTORS

Location No.	Part No.	Description
Q101	B0377585	IC, TA8101F
Q102	22128371	IC, TC9201BF-BS
Q103	22117700	IC, NJM3403AM
Q104	A6359870	TRANSISTOR, 2SC3326-B, CHIP
Q105	A6359870	TRANSISTOR, 2SC3326-B, CHIP
Q201	22128458	TRANSISTOR ARRAY, TA6270F
Q202	22128458	TRANSISTOR ARRAY, TA6270F
Q203	22128459	IC, BA6281F
Q204	22128459	IC, BA6281F
Q501	22128306	IC, UPD6355G
Q503	22128503	IC, M51568FP
Q504	A6359870	TRANSISTOR, 2SC3326-B, CHIP
Q505	A6359870	TRANSISTOR, 2SC3326-B, CHIP
Q506	A6359870	TRANSISTOR, 2SC3326-B, CHIP
Q507	A6359870	TRANSISTOR, 2SC3326-B, CHIP
Q508	A6541140	TRANSISTOR, 2SA1162-GR, CHIP
Q509	A6541140	TRANSISTOR, 2SA1162-GR, CHIP
Q601	22128370	IC, TC9200BF-BS
Q602	B0484015	IC, TC5518CFL-20
Q603	22117991	IC, BA3818F
Q604	22128558	IC, UPD75308GF-103
Q605	A6541140	TRANSISTOR, 2SA1162-GR, CHIP
Q606	A6541140	TRANSISTOR, 2SA1162-GR, CHIP
Q607	A6541140	TRANSISTOR, 2SA1162-GR, CHIP
Q608	A6541140	TRANSISTOR, 2SA1162-GR, CHIP
Q609	A6335480	TRANSISTOR, 2SC2712-GR, CHIP
Q701	A6541140	TRANSISTOR, 2SA1162-GR, CHIP
Q702	A6004040	TRANSISTOR, RN1404, CHIP
Q703	A6335480	TRANSISTOR, 2SC2712-GR, CHIP
Q704	A6335480	TRANSISTOR, 2SC2712-GR, CHIP
Q705	A6543610	TRANSISTOR, 2SA1213-Y, CHIP
Q706	A6335480	TRANSISTOR, 2SC2712-GR, CHIP
Q801	22128462	IC, TL499ACPS
Q802	22128461	IC, BA9701F
Q803	22128460	IC, BA9700AF
Q804	22128463	TRANSISTOR, IMT2-T
Q805	22128464	TRANSISTOR, IMZ1-T
Q806	22128464	TRANSISTOR, IMZ1-T
Q807	A6355570	TRANSISTOR, 2SC3074-Y
Q808	A6341960	TRANSISTOR, 2SC2873-Y, CHIP
Q809	A6541140	TRANSISTOR, 2SA1162-GR, CHIP

DIODE

Location No.	Part No.	Description
D201	A7150650	DIODE, 1SS184, CHIP
D202	A7150650	DIODE, 1SS184, CHIP
D203	A7150650	DIODE, 1SS184, CHIP
D204	A7150650	DIODE, 1SS184, CHIP
D205	22119285	DIODE, RB400D-T
D206	22119285	DIODE, RB400D-T
D207	22119285	DIODE, RB400D-T
D208	22119285	DIODE, RB400D-T
D209	22119285	DIODE, RB400D-T
D210	22119285	DIODE, RB400D-T
D211	22119285	DIODE, RB400D-T
D212	22119285	DIODE, RB400D-T
D501	A7150650	DIODE, 1SS184, CHIP
D601	A7150650	DIODE, 1SS184, CHIP
D602	A7151100	DIODE, 1SS193, CHIP
D603	A7151100	DIODE, 1SS193, CHIP
D604	A7151100	DIODE, 1SS193, CHIP
D605	A7151100	DIODE, 1SS193, CHIP
D701	22119285	DIODE, RB400D-T
D801	A7580250	DIODE, 1GWJ42
D802	22119440	DIODE, ERB83-004
D803	22119440	DIODE, ERB83-004

ELECTRICAL PARTS

Location No.	Part No.	Description
J501	22198361	JACK, 3.5MM LINE OUT
J502	22198375	JACK, 3.5MM HEADPHONE
J801	22198374	JACK, 5P DC IN
L801	22211410	CHOKE COIL, 100UH
L802	22211351	CHOKE COIL, 47UH
L803	22211424	CHOKE COIL, 220UH

Location No.	Part No.	Description
L804	22211352	CHOKE COIL, 100UH
L805	22211351	CHOKE COIL, 47UH
S201	22196844	PUSH SWITCH START LIMIT
S601	22108109	KEY SWITCH PLAY/PAUSE
S602	22108109	KEY SWITCH STOP
S603	22108109	KEY SWITCH UP
S604	22108109	KEY SWITCH DOWN
S605	22108109	KEY SWITCH MEMORY
S606	22108109	KEY SWITCH REPEAT
S607	22108109	KEY SWITCH DISC PLAY
S608	22108150	SLIDE SWITCH LOCK
S801	22108110	PUSH SWITCH CLOSE LIMIT
T801	22225070	FLYBACK TRANSFORMER
Z101	22153566	OSCILLATOR, CRYSTAL, 17.3MHZ
Z501	22137789	FILTER, LOW-PASS, LC-5-P
Z502	22137789	FILTER, LOW-PASS, LC-5-P
Z601	22153515	OSCILLATOR, CRYSTAL, 16.9MHZ
Z602	22153443	OSCILLATOR, CERAMIC, 4.19MHZ
Z603	22104717	DISPLAY, LIQUID CRYSTAL LCD-88P

CAPACITORS

Location No.	Part No.	Description
C101	20400006	EL, 330MFD, 6.3V
C102	20472100	TT, 10MFD, 4V, M
C103	20366223	CD, 0.022MFD, 25V, K, CHIP
C104	20473100	TT, 10MFD, 6.3V, M
C105	20331181	CD, 180PF, 50V, J, CHIP
C106	20331181	CD, 180PF, 50V, J, CHIP
C107	20331209	CD, 2PF, 50V, C, CHIP
C108	20366103	CD, 0.01MFD, 25V, K, CHIP
C109	20331150	CD, 15PF, 50V, J, CHIP
C110	20366103	CD, 0.01MFD, 25V, K, CHIP
C111	20363152	CD, 1500PF, 50V, K, CHIP
C113	20331181	CD, 180PF, 50V, J, CHIP
C114	20433100	EL, 10MFD, 6.3V
C115	20439228	EL, 0.22MFD, 50V
C116	20331471	CD, 470PF, 50V, J, CHIP
C117	20366153	CD, 0.015MFD, 25V, K, CHIP
C118	20331470	CD, 47PF, 50V, J, CHIP
C119	20331470	CD, 47PF, 50V, J, CHIP
C120	20331470	CD, 47PF, 50V, J, CHIP
C121	20433100	EL, 10MFD, 6.3V
C122	20369333	CD, 0.033MFD, 12.5V, K, CHIP
C123	20366103	CD, 0.01MFD, 25V, K, CHIP
C124	20439228	EL, 0.22MFD, 50V
C126	20432101	EL, 100MFD, 4V
C127	20331101	CD, 100PF, 50V, J, CHIP
C128	20363152	CD, 1500PF, 50V, K, CHIP
C129	20366103	CD, 0.01MFD, 25V, K, CHIP
C130	20432470	EL, 47MFD, 4V
C131	20366103	CD, 0.01MFD, 25V, K, CHIP
C132	20331330	CD, 33PF, 50V, J, CHIP
C133	20331330	CD, 33PF, 50V, J, CHIP
C134	20366223	CD, 0.022MFD, 25V, K, CHIP
C135	20369393	CD, 0.039MFD, 12.5V, K, CHIP
C136	20369473	CD, 0.047MFD, 12.5V, K, CHIP
C150	20439109	EL, 1MFD, 50V
C201	20400004	EL, 180MFD, 10V
C202	20366103	CD, 0.01MFD, 25V, K, CHIP
C203	20439228	EL, 0.22MFD, 50V
C204	20439229	EL, 2.2MFD, 50V
C205	20366103	CD, 0.01MFD, 25V, K, CHIP
C206	20366103	CD, 0.01MFD, 25V, K, CHIP
C207	20363222	CD, 2200PF, 50V, K, CHIP
C208	20366103	CD, 0.01MFD, 25V, K, CHIP
C506	20366562	CD, 5600PF, 25V, K, CHIP
C511	20433100	EL, 10MFD, 6.3V
C512	20433100	EL, 10MFD, 6.3V
C513	20331331	CD, 330PF, 50V, J, CHIP
C514	20331331	CD, 330PF, 50V, J, CHIP
C515	20366562	CD, 5600PF, 25V, K, CHIP
C517	20331221	CD, 220PF, 50V, J, CHIP
C518	20331221	CD, 220PF, 50V, J, CHIP
C519	20433220	EL, 22MFD, 6.3V
C520	20433220	EL, 22MFD, 6.3V
C521	20363102	CD, 1000PF, 50V, K, CHIP
C522	20363102	CD, 1000PF, 50V, K, CHIP
C523	20363102	CD, 1000PF, 50V, K, CHIP
C524	20363102	CD, 1000PF, 50V, K, CHIP
C525	20439229	EL, 2.2MFD, 50V
C526	20439229	EL, 2.2MFD, 50V
C527	20432101	EL, 100MFD, 4V
C528	20432101	EL, 100MFD, 4V
C529	20432221	EL, 220MFD, 4V
C530	20432221	EL, 220MFD, 4V
C532	20439229	EL, 2.2MFD, 50V
C533	20432101	EL, 100MFD, 4V
C534	20432101	EL, 100MFD, 4V
C535	20331470	CD, 47PF, 50V, J, CHIP
C536	20331470	CD, 47PF, 50V, J, CHIP
C537	20473100	TT, 10MFD, 6.3V, M
C538	20433100	EL, 10MFD, 6.3V
C601	20331330	CD, 33PF, 50V, J, CHIP
C602	20331330	CD, 33PF, 50V, J, CHIP
C603	20433100	EL, 10MFD, 6.3V
C604	20473100	TT, 10MFD, 6.3V, M
C605	20369473	CD, 0.047MFD, 12.5V, K, CHIP
C606	20474109	TT, 1MFD, 10V, M
C701	20433220	EL, 22MFD, 6.3V
C703	20439339	EL, 3.3MFD, 50V

Location No.	Part No.	Description
C704	20439478	EL, 0.47MFD, 50V
C801	20413331	EL, 330MFD, 6.3V
C802	20369473	CD, 0.047MFD, 12.5V, K, CHIP
C803	20400001	EL, 100MFD, 16V
C804	20439478	EL, 0.47MFD, 50V
C805	20363102	CD, 1000PF, 50V, K, CHIP
C806	20331681	CD, 680PF, 50V, J, CHIP
C807	20331180	CD, 18PF, 50V, J, CHIP
C809	20366103	CD, 0.01MFD, 25V, K, CHIP
C810	20400004	EL, 180MFD, 10V
C811	20331560	CD, 56PF, 50V, J, CHIP
C812	20400006	EL, 330MFD, 6.3V
C813	20400001	EL, 100MFD, 16V
C814	20366682	CD, 6800PF, 25V, K, CHIP
C815	20433220	EL, 22MFD, 6.3V
C816	20331220	CD, 22PF, 50V, J, CHIP
C817	20366103	CD, 0.01MFD, 25V, K, CHIP
C818	20400004	EL, 180MFD, 10V
C819	20331560	CD, 56PF, 50V, J, CHIP
C820	20400007	EL, 560MFD, 6.3V

RESISTORS

R103	20541479	OMF, 4.7 OHM, 1/10W, J, CHIP
R104	20541102	OMF, 1K OHM, 1/10W, J, CHIP
R105	20541124	OMF, 120K OHM, 1/10W, J, CHIP
R106	20541823	OMF, 82K OHM, 1/10W, J, CHIP
R107	22659061	VARIABLE, SEMI FIXED, 100K-B
R108	20541683	OMF, 68K OHM, 1/10W, J, CHIP
R109	20541183	OMF, 18K OHM, 1/10W, J, CHIP
R110	20541153	OMF, 15K OHM, 1/10W, J, CHIP
R112	20541564	OMF, 560K OHM, 1/10W, J, CHIP
R113	20541151	OMF, 150 OHM, 1/10W, J, CHIP
R114	20541332	OMF, 3.3K OHM, 1/10W, J, CHIP
R115	22659060	VARIABLE, SEMI FIXED, 20K-B
R116	22659061	VARIABLE, SEMI FIXED, 100K-B
R117	20541225	OMF, 2.2M OHM, 1/10W, K, CHIP
R118	20541123	OMF, 12K OHM, 1/10W, J, CHIP
R119	22659061	VARIABLE, SEMI FIXED, 100K-B
R120	20541563	OMF, 56K OHM, 1/10W, J, CHIP
R121	20541682	OMF, 6.8K OHM, 1/10W, J, CHIP
R122	20541562	OMF, 5.6K OHM, 1/10W, J, CHIP
R123	20541473	OMF, 47K OHM, 1/10W, J, CHIP
R124	20541823	OMF, 82K OHM, 1/10W, J, CHIP
R125	20541683	OMF, 68K OHM, 1/10W, J, CHIP
R126	20541184	OMF, 180K OHM, 1/10W, J, CHIP
R127	20541472	OMF, 4.7K OHM, 1/10W, J, CHIP
R128	20541393	OMF, 39K OHM, 1/10W, J, CHIP
R129	20541105	OMF, 1M OHM, 1/10W, K, CHIP
R130	20541123	OMF, 12K OHM, 1/10W, J, CHIP
R131	20541153	OMF, 15K OHM, 1/10W, J, CHIP
R132	20541223	OMF, 22K OHM, 1/10W, J, CHIP
R133	20541103	OMF, 10K OHM, 1/10W, J, CHIP
R134	20541223	OMF, 22K OHM, 1/10W, J, CHIP

Location No.	Part No.	Description
R135	20541103	OMF, 10K OHM, 1/10W, J, CHIP
R136	20541822	OMF, 8.2K OHM, 1/10W, J, CHIP
R137	20541822	OMF, 8.2K OHM, 1/10W, J, CHIP
R138	20541102	OMF, 1K OHM, 1/10W, J, CHIP
R141	20541472	OMF, 4.7K OHM, 1/10W, J, CHIP
R143	20541473	OMF, 47K OHM, 1/10W, J, CHIP
R146	20541153	OMF, 15K OHM, 1/10W, J, CHIP
R147	20541102	OMF, 1K OHM, 1/10W, J, CHIP
R148	20541222	OMF, 2.2K OHM, 1/10W, J, CHIP
R149	20541103	OMF, 10K OHM, 1/10W, J, CHIP
R150	20541473	OMF, 47K OHM, 1/10W, J, CHIP
R151	20541682	OMF, 6.8K OHM, 1/10W, J, CHIP
R152	20541222	OMF, 2.2K OHM, 1/10W, J, CHIP
R153	20541122	OMF, 1.2K OHM, 1/10W, J, CHIP
R154	20541562	OMF, 5.6K OHM, 1/10W, J, CHIP
R155	20541822	OMF, 8.2K OHM, 1/10W, J, CHIP
R156	20541273	OMF, 27K OHM, 1/10W, J, CHIP
R157	20541124	OMF, 120K OHM, 1/10W, J, CHIP
R158	20541222	OMF, 2.2K OHM, 1/10W, J, CHIP
R159	20541182	OMF, 1.8K OHM, 1/10W, J, CHIP
R160	20541183	OMF, 18K OHM, 1/10W, J, CHIP
R161	20541683	OMF, 68K OHM, 1/10W, J, CHIP
R162	20541124	OMF, 120K OHM, 1/10W, J, CHIP
R163	20541105	OMF, 1M OHM, 1/10W, K, CHIP
R164	20541102	OMF, 1K OHM, 1/10W, J, CHIP
R165	20541473	OMF, 47K OHM, 1/10W, J, CHIP
R166	20541392	OMF, 3.9K OHM, 1/10W, J, CHIP
R167	20541472	OMF, 4.7K OHM, 1/10W, J, CHIP
R168	20541564	OMF, 560K OHM, 1/10W, J, CHIP
R169	20541563	OMF, 56K OHM, 1/10W, J, CHIP
R170	20541472	OMF, 4.7K OHM, 1/10W, J, CHIP
R171	20541102	OMF, 1K OHM, 1/10W, J, CHIP
R202	20541109	OMF, 1 OHM, 1/10W, J, CHIP
R203	20541109	OMF, 1 OHM, 1/10W, J, CHIP
R205	20541109	OMF, 1 OHM, 1/10W, J, CHIP
R206	20541109	OMF, 1 OHM, 1/10W, J, CHIP
R209	20541223	OMF, 22K OHM, 1/10W, J, CHIP
R210	20541151	OMF, 150 OHM, 1/10W, J, CHIP
R211	20541562	OMF, 5.6K OHM, 1/10W, J, CHIP
R509	20541272	OMF, 2.7K OHM, 1/10W, J, CHIP
R510	20541272	OMF, 2.7K OHM, 1/10W, J, CHIP
R511	20541472	OMF, 4.7K OHM, 1/10W, J, CHIP
R512	20541472	OMF, 4.7K OHM, 1/10W, J, CHIP
R513	20541472	OMF, 4.7K OHM, 1/10W, J, CHIP
R514	20541472	OMF, 4.7K OHM, 1/10W, J, CHIP
R515	20541472	OMF, 4.7K OHM, 1/10W, J, CHIP
R516	20541472	OMF, 4.7K OHM, 1/10W, J, CHIP
R517	20541562	OMF, 5.6K OHM, 1/10W, J, CHIP
R518	20541562	OMF, 5.6K OHM, 1/10W, J, CHIP
R519	20541123	OMF, 12K OHM, 1/10W, J, CHIP
R520	20541123	OMF, 12K OHM, 1/10W, J, CHIP
R521	20541153	OMF, 15K OHM, 1/10W, J, CHIP
R522	20541153	OMF, 15K OHM, 1/10W, J, CHIP
R523	20541101	OMF, 100 OHM, 1/10W, J, CHIP
R524	20541101	OMF, 100 OHM, 1/10W, J, CHIP

Location No.	Part No.	Description
R525	20541104	OMF, 100K OHM, 1/10W, J, CHIP
R526	20541104	OMF, 100K OHM, 1/10W, J, CHIP
R527	20541152	OMF, 1.5K OHM, 1/10W, J, CHIP
R528	20541152	OMF, 1.5K OHM, 1/10W, J, CHIP
R529	20541100	OMF, 10 OHM, 1/10W, J, CHIP
R530	20541100	OMF, 10 OHM, 1/10W, J, CHIP
R531	20541331	OMF, 330 OHM, 1/10W, J, CHIP
R532	20541331	OMF, 330 OHM, 1/10W, J, CHIP
R533	22651696	VARIABLE, 10K OHM, C VOLUME
R534	20541223	OMF, 22K OHM, 1/10W, J, CHIP
R535	20541223	OMF, 22K OHM, 1/10W, J, CHIP
R536	20541103	OMF, 10K OHM, 1/10W, J, CHIP
R537	20541391	OMF, 390 OHM, 1/10W, J, CHIP
R538	20541393	OMF, 39K OHM, 1/10W, J, CHIP
R539	20541473	OMF, 47K OHM, 1/10W, J, CHIP
R540	20541563	OMF, 56K OHM, 1/10W, J, CHIP
R542	20541223	OMF, 22K OHM, 1/10W, J, CHIP
R543	20541223	OMF, 22K OHM, 1/10W, J, CHIP
R544	20541102	OMF, 1K OHM, 1/10W, J, CHIP
R545	20541102	OMF, 1K OHM, 1/10W, J, CHIP
R548	20541473	OMF, 47K OHM, 1/10W, J, CHIP
R601	20541103	OMF, 10K OHM, 1/10W, J, CHIP
R602	20541103	OMF, 10K OHM, 1/10W, J, CHIP
R603	20541103	OMF, 10K OHM, 1/10W, J, CHIP
R604	20541103	OMF, 10K OHM, 1/10W, J, CHIP
R605	20541103	OMF, 10K OHM, 1/10W, J, CHIP
R606	20541222	OMF, 2.2K OHM, 1/10W, J, CHIP
R607	20541223	OMF, 22K OHM, 1/10W, J, CHIP
R608	20541223	OMF, 22K OHM, 1/10W, J, CHIP
R609	20541223	OMF, 22K OHM, 1/10W, J, CHIP
R610	20541183	OMF, 18K OHM, 1/10W, J, CHIP
R612	20541182	OMF, 1.8K OHM, 1/10W, J, CHIP
R613	20541104	OMF, 100K OHM, 1/10W, J, CHIP
R614	20541225	OMF, 2.2M OHM, 1/10W, K, CHIP
R615	20541331	OMF, 330 OHM, 1/10W, J, CHIP
R616	20541473	OMF, 47K OHM, 1/10W, J, CHIP
R617	20541564	OMF, 560K OHM, 1/10W, J, CHIP
R618	20541104	OMF, 100K OHM, 1/10W, J, CHIP
R619	20541682	OMF, 6.8K OHM, 1/10W, J, CHIP
R620	20541474	OMF, 470K OHM, 1/10W, J, CHIP
R621	20511154	CF, 150K OHM, 1/6W, J
R702	20541472	OMF, 4.7K OHM, 1/10W, J, CHIP
R703	20541473	OMF, 47K OHM, 1/10W, J, CHIP
R704	20541473	OMF, 47K OHM, 1/10W, J, CHIP
R705	20541222	OMF, 2.2K OHM, 1/10W, J, CHIP
R706	20541223	OMF, 22K OHM, 1/10W, J, CHIP
R707	20541473	OMF, 47K OHM, 1/10W, J, CHIP
R708	20541123	OMF, 12K OHM, 1/10W, J, CHIP
R709	20541823	OMF, 82K OHM, 1/10W, J, CHIP
R711	20541103	OMF, 10K OHM, 1/10W, J, CHIP
R713	20541472	OMF, 4.7K OHM, 1/10W, J, CHIP
R714	20541472	OMF, 4.7K OHM, 1/10W, J, CHIP
R715	20541473	OMF, 47K OHM, 1/10W, J, CHIP
R801	20520048	CF, 6.8 OHM, 2W, J

Location No.	Part No.	Description
R802	20541102	OMF, 1K OHM, 1/10W, J, CHIP
R803	20541273	OMF, 27K OHM, 1/10W, J, CHIP
R804	20541563	OMF, 56K OHM, 1/10W, J, CHIP
R805	20540110	OMF, 68K OHM, 1/10W, F, CHIP
R806	20540109	OMF, 39K OHM, 1/10W, F, CHIP
R807	20541473	OMF, 47K OHM, 1/10W, J, CHIP
R808	20541472	OMF, 4.7K OHM, 1/10W, J, CHIP
R809	20540002	OMF, 18K OHM, 1/10W, F, CHIP
R810	20541224	OMF, 220K OHM, 1/10W, J, CHIP
R811	20541333	OMF, 33K OHM, 1/10W, J, CHIP
R812	20541333	OMF, 33K OHM, 1/10W, J, CHIP
R813	20541682	OMF, 6.8K OHM, 1/10W, J, CHIP
R814	20541470	OMF, 47 OHM, 1/10W, J, CHIP
R815	20540004	OMF, 47K OHM, 1/10W, F, CHIP
R816	20540004	OMF, 47K OHM, 1/10W, F, CHIP
R817	20540005	OMF, 56K OHM, 1/10W, F, CHIP
R818	20541153	OMF, 15K OHM, 1/10W, J, CHIP
R819	20541563	OMF, 56K OHM, 1/10W, J, CHIP
R820	20541393	OMF, 39K OHM, 1/10W, J, CHIP
R821	20541823	OMF, 82K OHM, 1/10W, J, CHIP
R822	20541103	OMF, 10K OHM, 1/10W, J, CHIP
R823	20540110	OMF, 68K OHM, 1/10W, F, CHIP
R824	20540109	OMF, 39K OHM, 1/10W, F, CHIP
R825	20541393	OMF, 39K OHM, 1/10W, J, CHIP
R826	20541333	OMF, 33K OHM, 1/10W, J, CHIP
R827	20541333	OMF, 33K OHM, 1/10W, J, CHIP
R828	20541682	OMF, 6.8K OHM, 1/10W, J, CHIP
R829	20541101	OMF, 100 OHM, 1/10W, J, CHIP

ACCESSORIES

AC01	22908691	OWNER'S MANUAL (USA)
AC01	22908692	OWNER'S MANUAL (CANADA)
AC01	22908693	OWNER'S MANUAL (EUROPE)
AC01	22908694	OWNER'S MANUAL (UK, AUSTRALIA)
AC01	22908695	OWNER'S MANUAL (OTHERS, SAUDI ARABIA)
AC02	22152755	HEADPHONE, HR-P6-K
AC03	22140021	REMOTE CONTROL ASSY, WIRED
AC04	22197081	PIN PLUG CORD
AC05	22101334	BATTERY, CHARGE, BU-R210-EX
⚠ AC06	22169254	ADAPTOR, AC PLUG (OTHERS, SAUDI ARABIA)

TAC-210 AC ADAPTOR PARTS LIST

CAUTION:
The ⚠ mark, the Location No. circled with oval in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

ABBREVIATIONS

1. **CAPACITOR:** CD — Ceramic Disk, PF — Plastic Film, BL — Barrier Layer, EL — Electrolytic, MY — Mylar, PP — Polypropylene, PS — Polystyrene, TT — Tantalum, PE — Polyethylene MFD — Microfarad, PF — Picofarad, V — Voltage, NP — Non Polarity
2. **RESISTOR:** CF — Carbon Film, CC — Carbon Composition, OMF — Oxide Metal Film, MF — Metal Film K — Kilo (1000), M — Mega (1000000)
3. **TOLERANCE**

Symbol	F	G	J	K	M	N	Z	P
%	±1	±2	±5	±10	±20	±30	−20+80	0+100

Symbol	C	D
pF	±0.25	±0.5

Location No.	Part No.	Description
IC'S/TRANSISTORS		
Q901	A6058730	TRANSISTOR, 2SK365-BL, FET
Q902	A6868350	TRANSISTOR, 2SD1413
Q903	B0372560	IC, TA78L005AP
Q904	22117931	IC, BX1407-RM
or	22128456	IC, SBX1483-52
DIODE		
D901	A7978430	DIODE, S5277B(LC5) (USA, CANADA, EUROPE, UK, AUSTRALIA)
D901	A7580250	DIODE, 1GWJ42 (OTHERS, SAUDI ARABIA)
D902	A7978430	DIODE, S5277B(LC5) (USA, CANADA, EUROPE, UK, AUSTRALIA)
D902	A7580250	DIODE, 1GWJ42 (OTHERS, SAUDI ARABIA)
D903	A7116305	DIODE, 04AZ5.1-X, ZENER
D904	A8601100	DIODE, TLR123, LED
ELECTRICAL PARTS		
⚠ EP11	22176125	POWER CORD (OTHERS)
⚠ EP11	22176745	POWER CORD (USA, CANADA)
⚠ EP11	22176746	POWER CORD (EUROPE)
⚠ EP11	22176747	POWER CORD (AUSTRALIA)
⚠ EP11	22176748	POWER CORD (UK)
⚠ EP11	22176766	POWER CORD (SAUDI ARABIA)
⚠ J901	22186526	PLUG, 4P DC OUT
⚠ S901	22196695	SLIDE SWITCH (OTHERS, SAUDI ARABIA)
⚠ T901	22225074	POWER TRANSFORMER (USA, CANADA)
⚠ T901	22225075	POWER TRANSFORMER (EUROPE)
⚠ T901	22225076	POWER TRANSFORMER (UK)
⚠ T901	22225077	POWER TRANSFORMER (AUSTRALIA)
⚠ T901	22225078	POWER TRANSFORMER (OTHERS, SAUDI ARABIA)
CAPACITORS		
C901	20415222	EL, 2200MFD, 16V (USA, CANADA, EUROPE, UK AUSTRALIA)
C901	20415332	EL, 3300MFD, 16V (OTHERS, SAUDI ARABIA)
C902	20414101	EL, 100MFD, 10V
C903	20414102	EL, 1000MFD, 10V
C904	20414101	EL, 100MFD, 10V
RESISTOR		
R901	20513331	CF, 330 OHM, 1/4W, J
ACCESSORY		
AC11	22120172	REMOTE CONTROL UNIT, RM-A210

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105, JAPAN