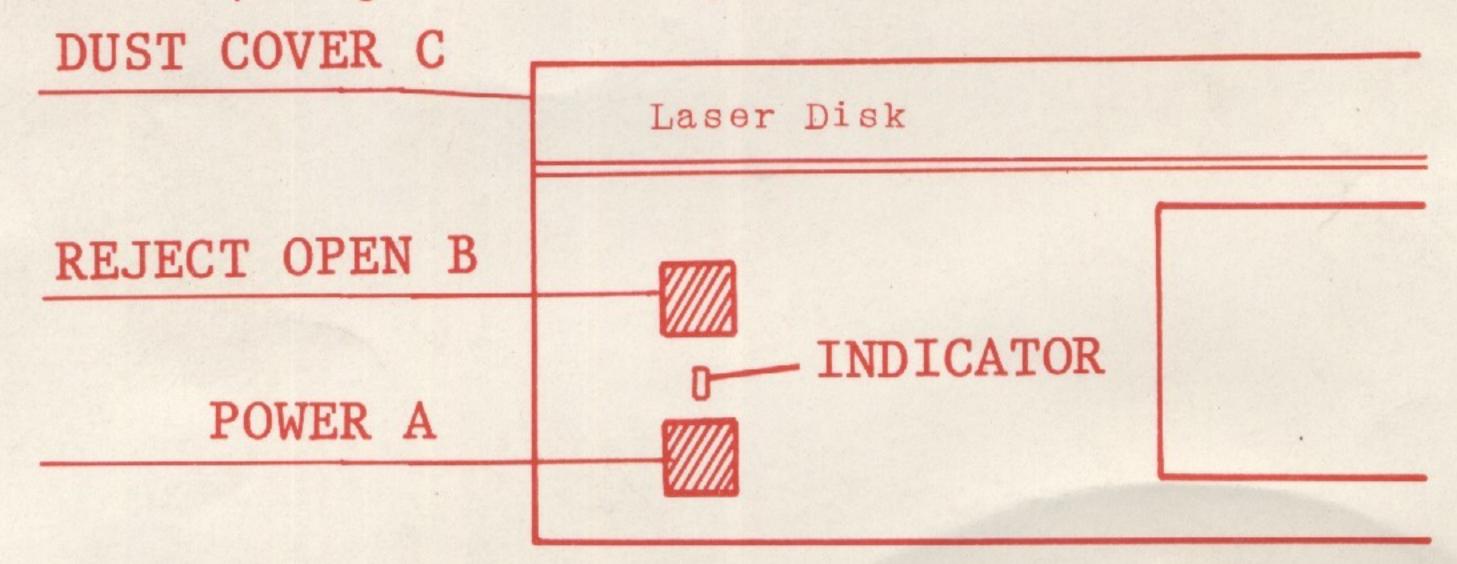


SERVICE MANUAL
SERVICE PARTS
(LAMP 1)
FUSE 5A 1

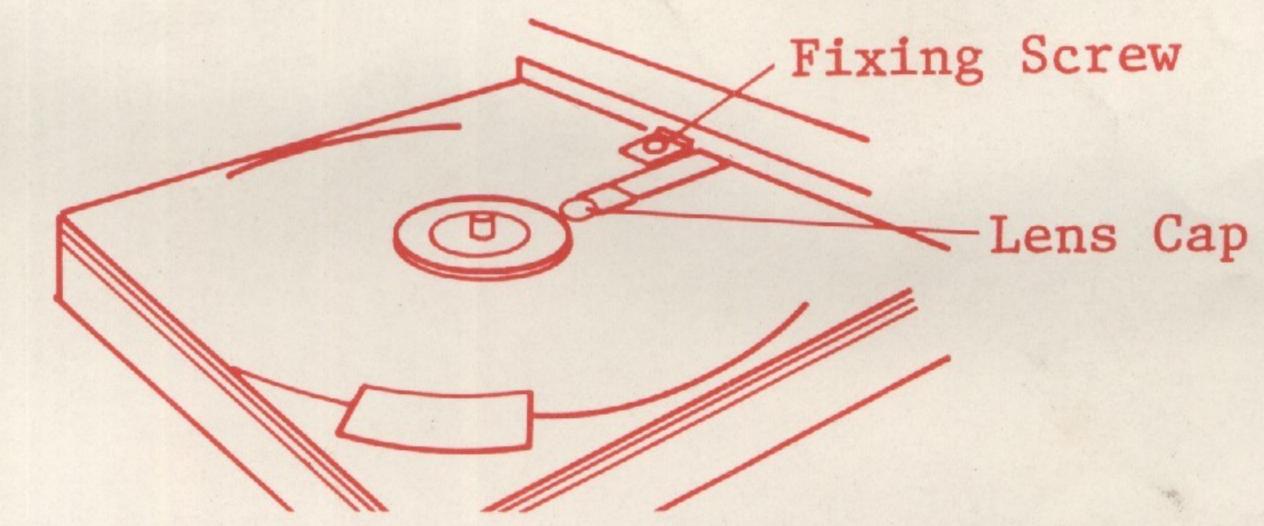


Installation of Laser Disc Player

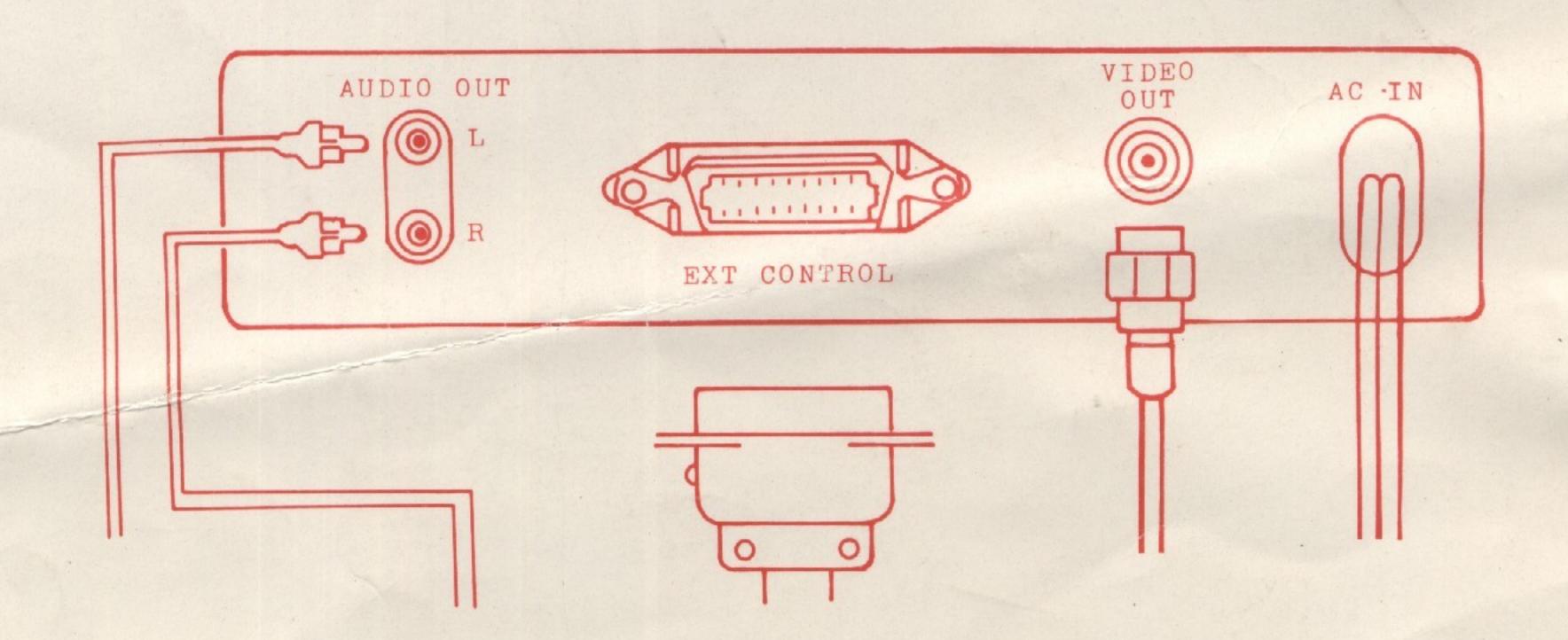
- Dismantle the maintenance door of the machine by unlocking and unscrewing bolts.
 Pull back the board by pressing down the stopper positioning at the right side of the laser disc player board.
- 2) For opening the dust cover
 - Plug the AC cord from the game machine into the AC socket.
 - Plug the Laser disc player AC cord into "LASER DISC" socket on AC outlet terminal.
 - Unlock the key upper side of the coin selector, and put POWER SW of the machine ON.
 - Push ON the POWER A switch of Laser disc player, and the indication lamp will turn on.
 - Push REJECT OPEN Button B, and push up the DUST COVER C by hand to open it.
 (Unless power source is fed the dust cover will not open even pushing REJECT OPEN Button, then after opening it switch OFF power of the machine).



- 3) How to dismantle the fixing screw and lens cap
 - In order to protect internal function during transportation, the fixing screw and lens cap are provided, which have to be dismantled and kept before setting the disc.
 - To stop operation for long time and for transportation, please fix the screw and lens cap without fail.
- 4) How to fit the disc
 - Set the laser disc, putting the label side downward, onto the spindle and close the dust cover.



- 5) Put Laser disc player on the laser disc board facing the connector side to the front and push it with the laser disc player board onto the extreme inside of the machine. Then check the board is certainly locked.
- 6) Connect each connectors of laser disc player as shown below and check if all the lead wires are connected, but handle carefully and gently.





Laser Fantasy

SERVICE MANUAL



INTRODUCTION FOR MANUAL

We are very much appreciated for your using "INTER STELLAR", the 1st series of LASER FANTASY.

INTER STELLAR have been developed on our latest technology and experience, thus we put our full confidence on it. Three-dimensional computer graphic is adopted for display as well 5 channel sound system for music, and this is an innovating game machine compared with conventional video-games. We are confident that you will be fully satisfied with it.

This manual is so edited aiming for engineers who are specialized for IC, CRT, LASER DISC and so on that particular caution has to be paid not to perform any service work inside of the system except by speciality engineers.

In case when it gets wrong, users in general are strictly requested not to touch anything inside of the game machine, electrical circuit, laser disc player for instance.

Warning — This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

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- 1. Specification
- 2. Installation
- 3. Handling
- 4. Naming of each sections
- 5. Cabinet assembling
- 6. Naming of inside of machine
- 7. Explanation of inside of machine
 - 7-1) Plate of power source
 - 7-2) AC outlet terminal
 - 7-3) Switch board
- 8. Installation of Laser disc player
- 9. Explanation on self-test
- 10. Adjustment of CRT Monitor
- 11. Dip switch table
- 12. Game procedure
- 13. Cleaning of filter

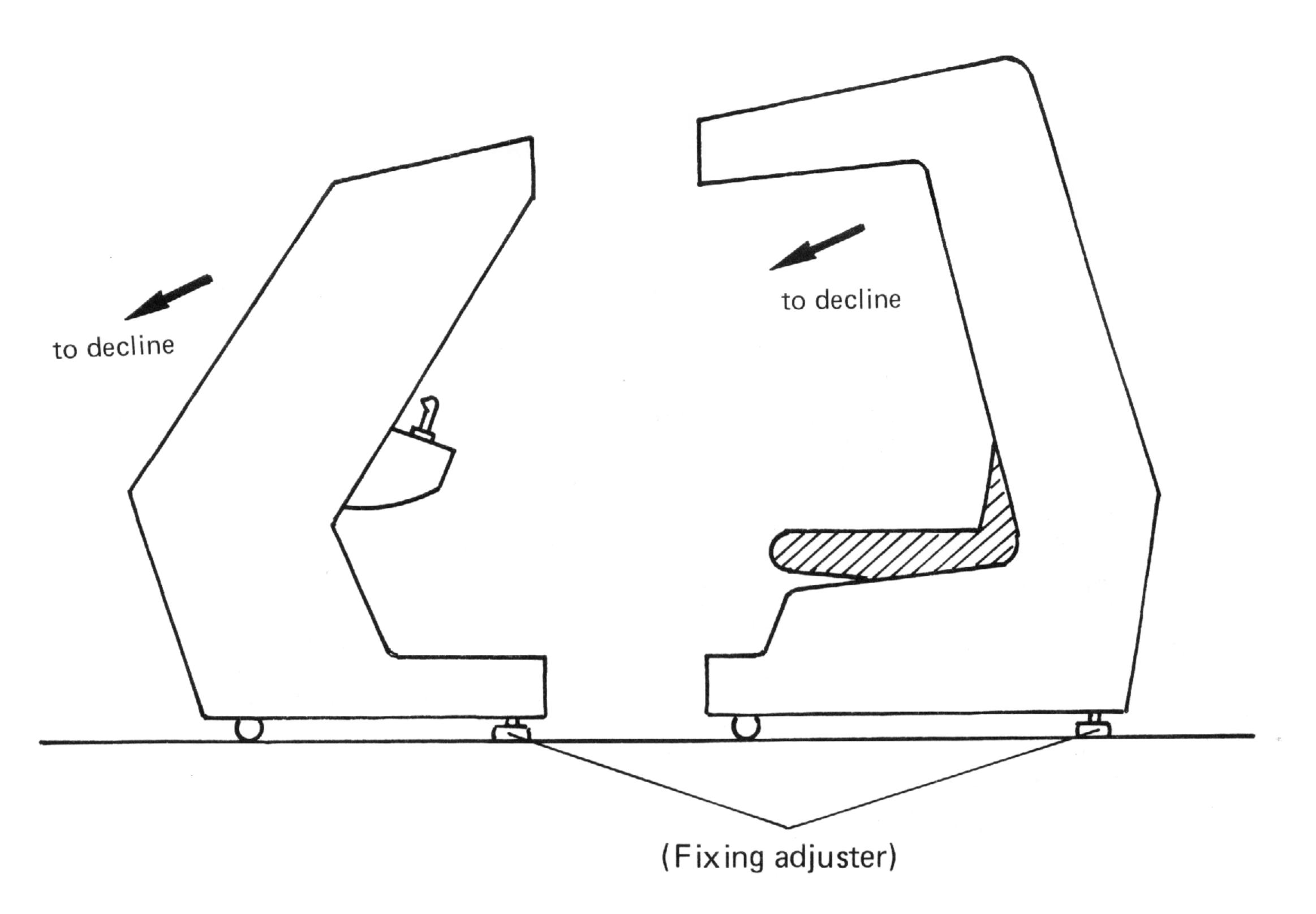
1. Specification

Power source	AC 120V ± 5 V (60 Hz)
Power consumption	210 W
Game fee	25 cents x 2 per game (available to change)
Dimensions	Width 730 mm
	Depth 2055 mm
	Height 1680 mm
Weight	200 Kg
CRT Monitor	19 inch colour monitor

^{*} Specification subjects to be changed without notice.

2. Installation

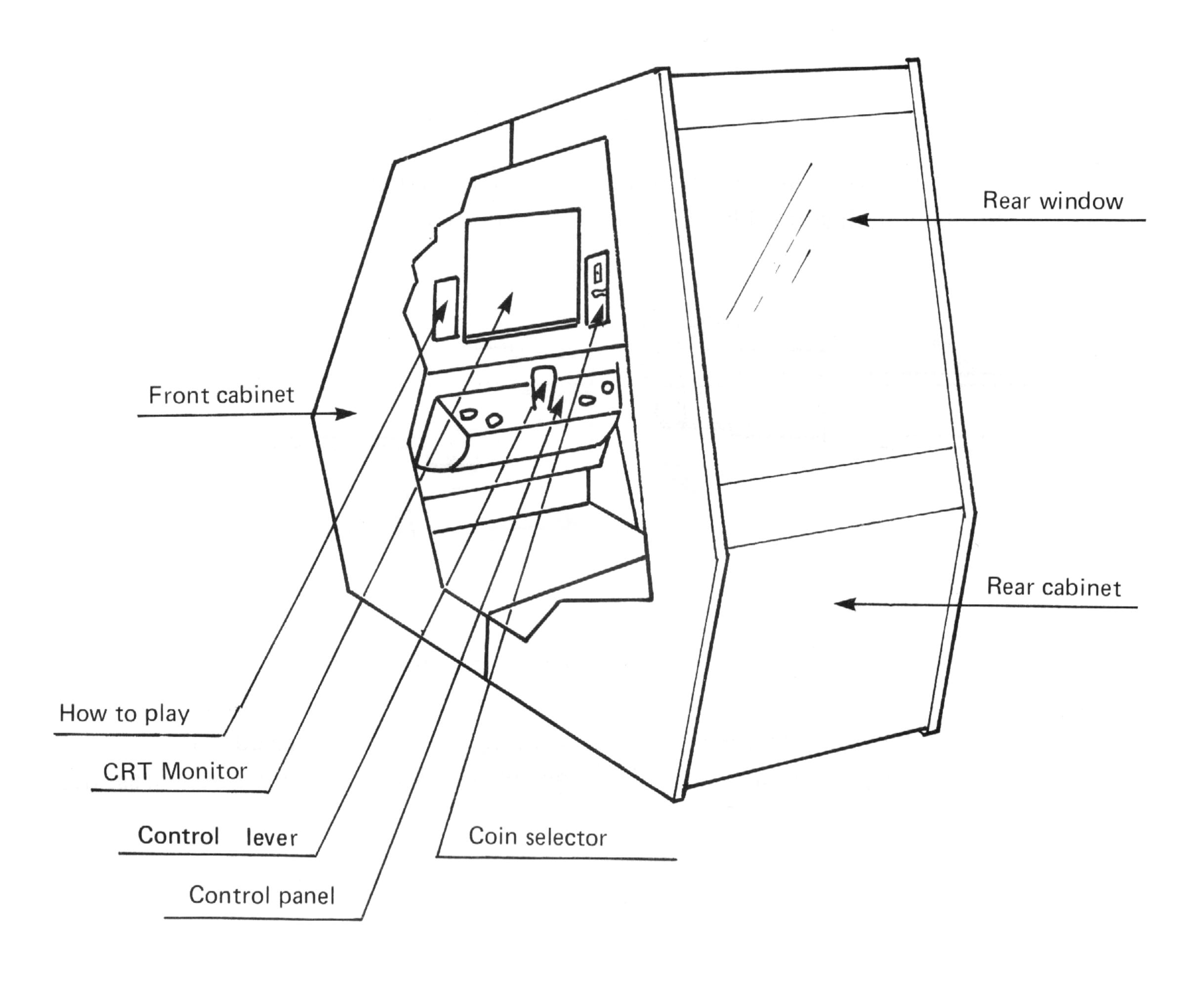
- (1) Due to containing precision system like CRT Monitor, Laser disc player and so on, caution has to be taken not to give big shock during transportation and installation.
- (2) This machine INTER STELLAR is made for placing indoor, and it is strictly prohibited to install outdoor. Even for indoor use following care must be taken for right usage.
 - 1. To avoid locating it under direct sun-shine, humid, dusty and water spattering places. If it should be showered with water, being afraid of electrical shock, power source must be cut immediately, dry throughly then switch on again.
 - 2. To avoid putting on places where it may hinder emergency activity, near to emergency exit, fire extinguisher and so on.
 - 3. Be sure to put on solid and horizontal base. When placing it on unstable and bibrating base it may not only cause damage to the machine but also cause dangerous circumstances.
 - 4. Earth terminal of the machine should be grounded without fail.
 - 5. Applied voltage can be AC 115V 125V, but please be care to feed 120V or as nearest as possible on which the machine is designed. By using beyond the range of 115 125V, it will damage itself or even result fire, so maximum care must be paid on this point.
 - 6. Upon deciding installation spot, decline the cabinet to move to your desired point then fix with the fixing adjusters (2 points at the right and the left) and, at the same time, adjust height. Fix firmely on the floor.

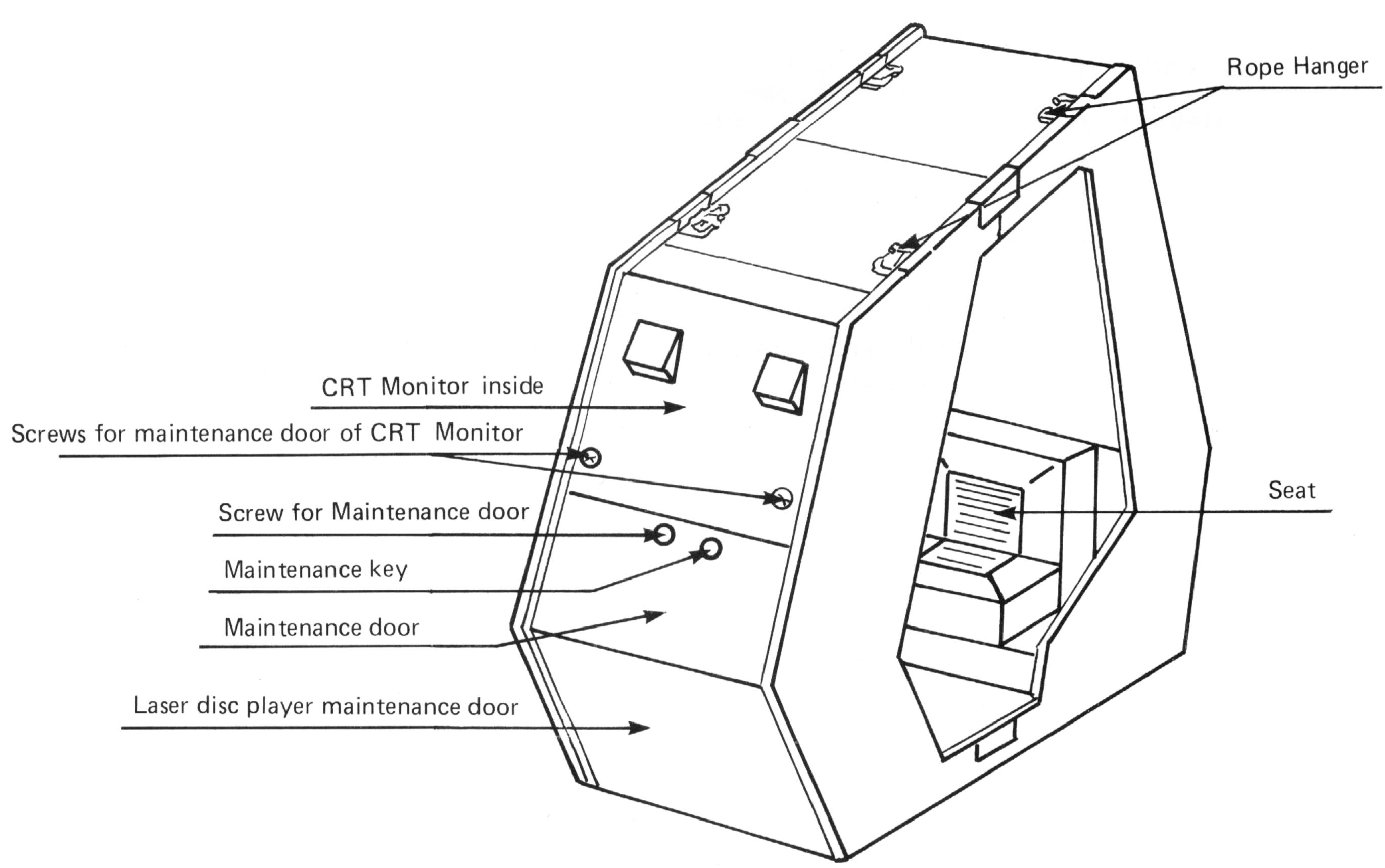


3. Handling

- (1) Due to containing precision system like CRT Monitor, Laser disc player and so on, caution has to be taken not to give big shock during transportation and installation.
- (2) Laser disc player should be fitted on the local spot and, for doing it, be sure to read through the pages of reference items.
- (3) For moving the machine from one place to the other, detouch the laser disc player, on which adapt fixing screws and lens cap, then pack and transport. When moving the player without the fixing screws and lens cap it may be damaged itself by bibration and dusts.
- (4) One should not touch inside of the player, which is very dangerous as being with high voltage and laser beam.
- (5) Laser disc player must be completely free from dusts, thus the disc and the filter (to refer p. 00, naming of inside of machine) must be cleaned once in fortnight without fail.
- (6) Laser disc can be handled like normal sound disc, do not touch the face directly.
- (7) High voltage is loarded on CRT Monitor, please be carefull for inspection and adjustment.
- (8) Our specified fuses must be adapted. If otherwise is applied it may damage the machine and possibly cause fire (our ref. No. 1790382). When being cut frequently even with our specified one please cut power source and stop using the machine.
- (9) Each fixing points may probably be comming loose during transportation, and all the PC boards fitting, connectors and so on must be checked once again.
- (10) One must avoid applying circuit tester on the PC boards for inspection, for IC can be damaged even by internal voltage of the tester.
- (11) Cut power source when working on changing parts, putting connectors in and out and changing DIP SWITCH.
- (12) Please avoid to switch on immediate after cutting it off, for which one should wait at least 10 seconds.
- (13) For an event of voltage fractuation CRT picture may stop sometimes. On that case, switch off once and put on again.

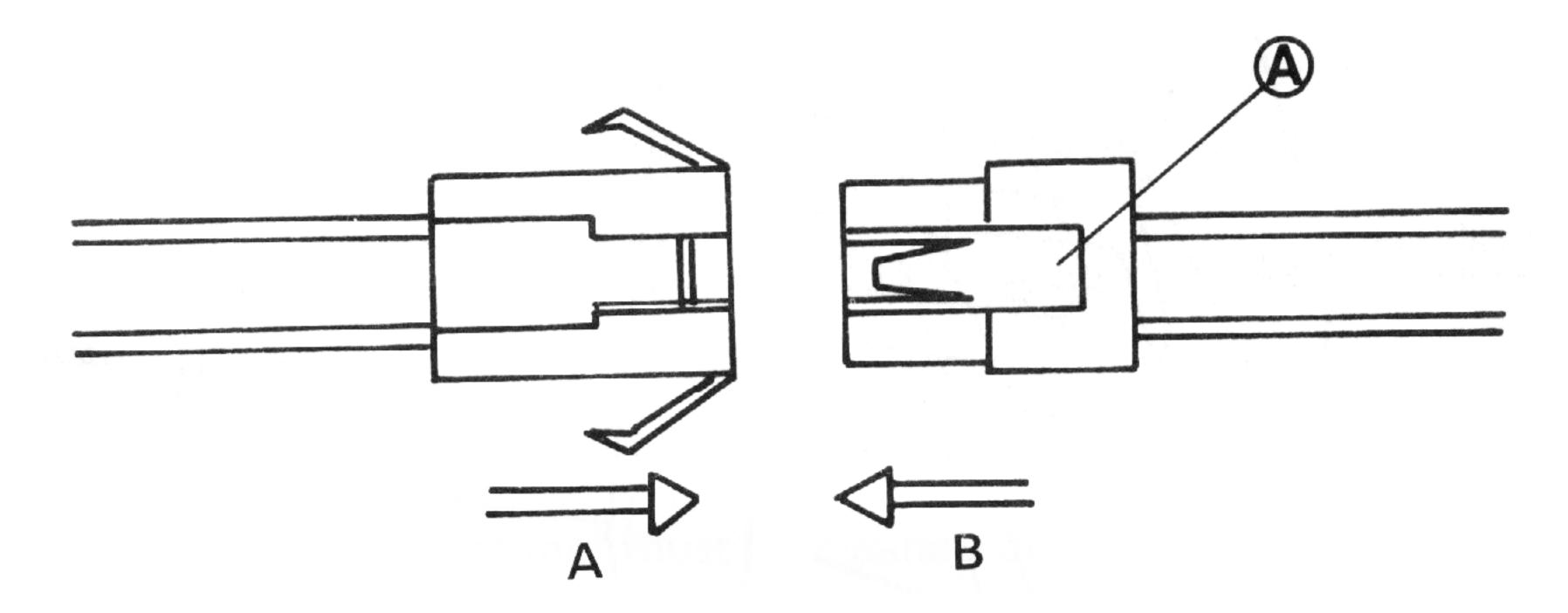
4. Naming of Each Sections





5. Cabinet Assembly

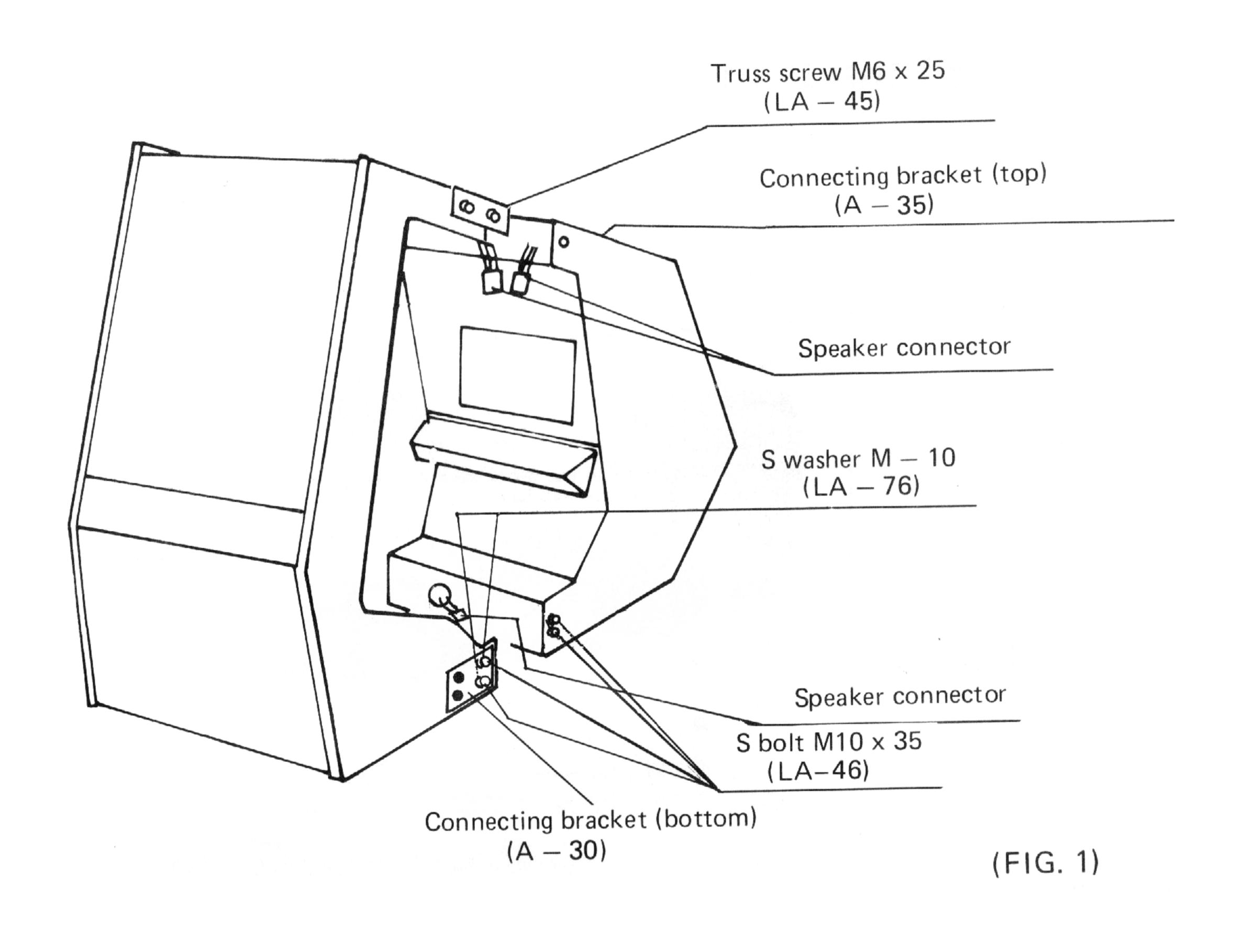
- (1) Connection of speaker connectors
 - 1. Before cabinet assembling, please connect speaker connectors.
 - 2. Speaker connectors exist at the upper and the bottom parts of the front and rear cabinets, at each 2 points, which should be connected on the following procedure.

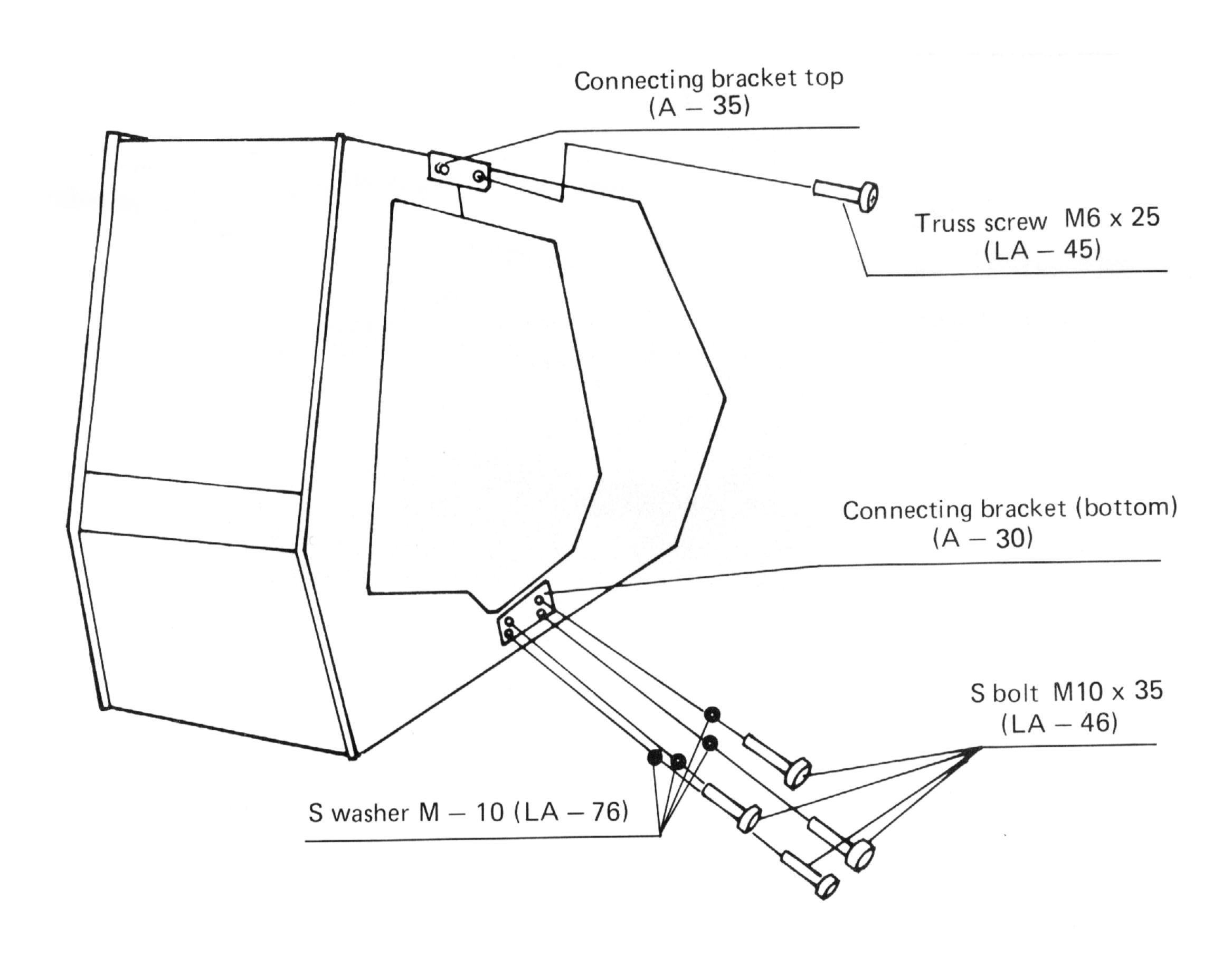


Each connectors can be joined together by pushing into both direction A and B (connectors have their own front/back faces). To disconnect them, push the part A and pull off both A and B (when pulling them without pushing A lead wires are cut. Please take care). Also mind to pull by holding connectors themselves. By pulling on lead wires, they may be cut inside.

(2) Cabinet connection

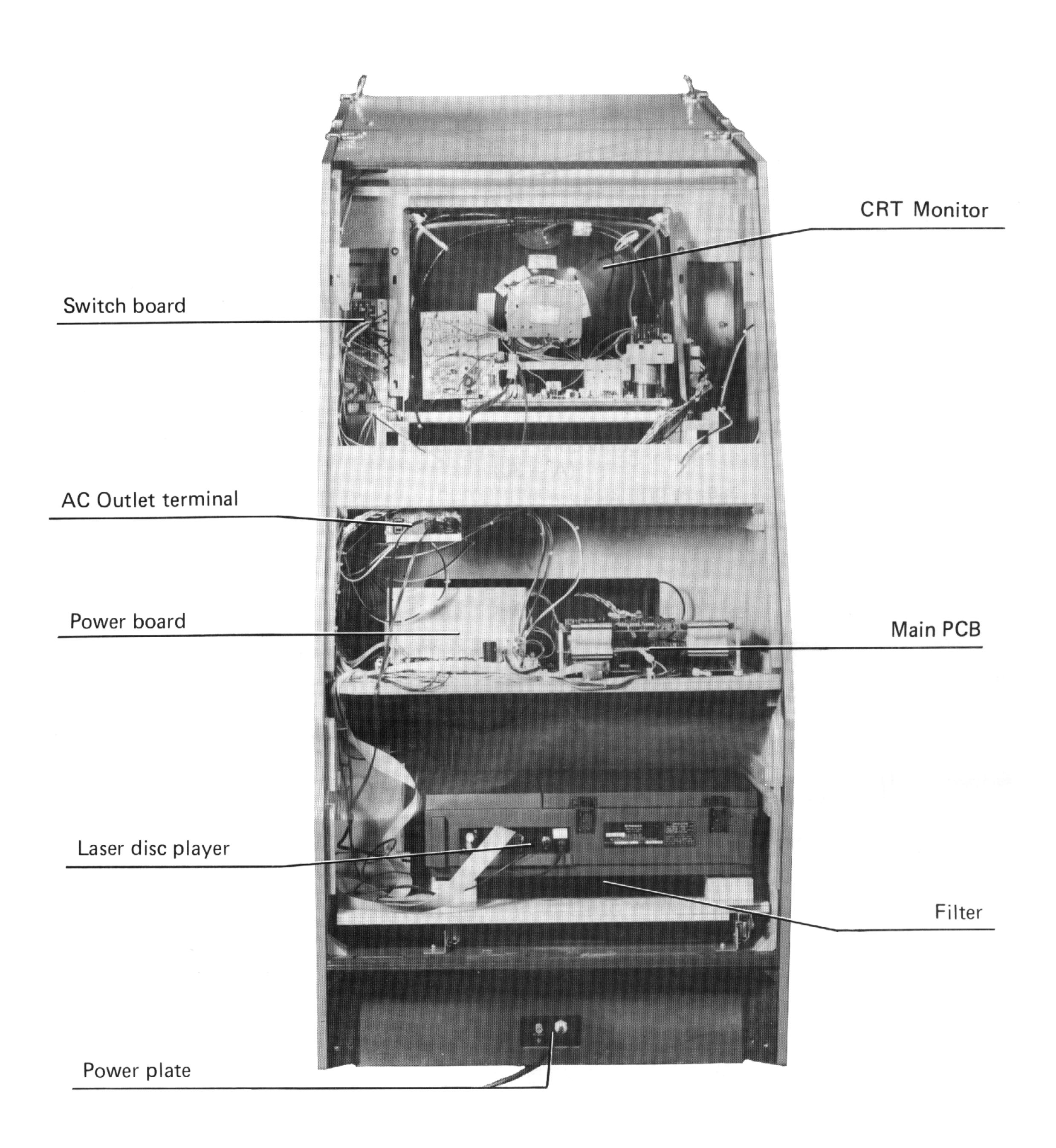
- 1. Connect upper parts of the front and rear cabinet trough the holes at the front side of connecting brackets (top, A-35) with truss screws M6 x 25 (LA-45) tempolarly located on the front cabinet, at the right and the left each 2 points, to refer (FIG. 1 and FIG. 2).
- 2. Detouch the connecting bracket (bottom, A-30) with S bolt M10 x 35 (LA-46) and 2 pcs. of S washers M-10 (LA-76), also dismantle S bolt M10 x 35 (LA-46) on the rear cabinet. Connect lower part of the cabinets by that connecting bracket with S bolt and S washer (each 4 pcs. at the right and the left), to refer (FIG. 1 and FIG. 2).
- 3. For fixing each position, please care not to screw tightly for the beginning, then fix completely in total at the end. When tightening hardly one after another, each bolt holes may not be fitting in the end.





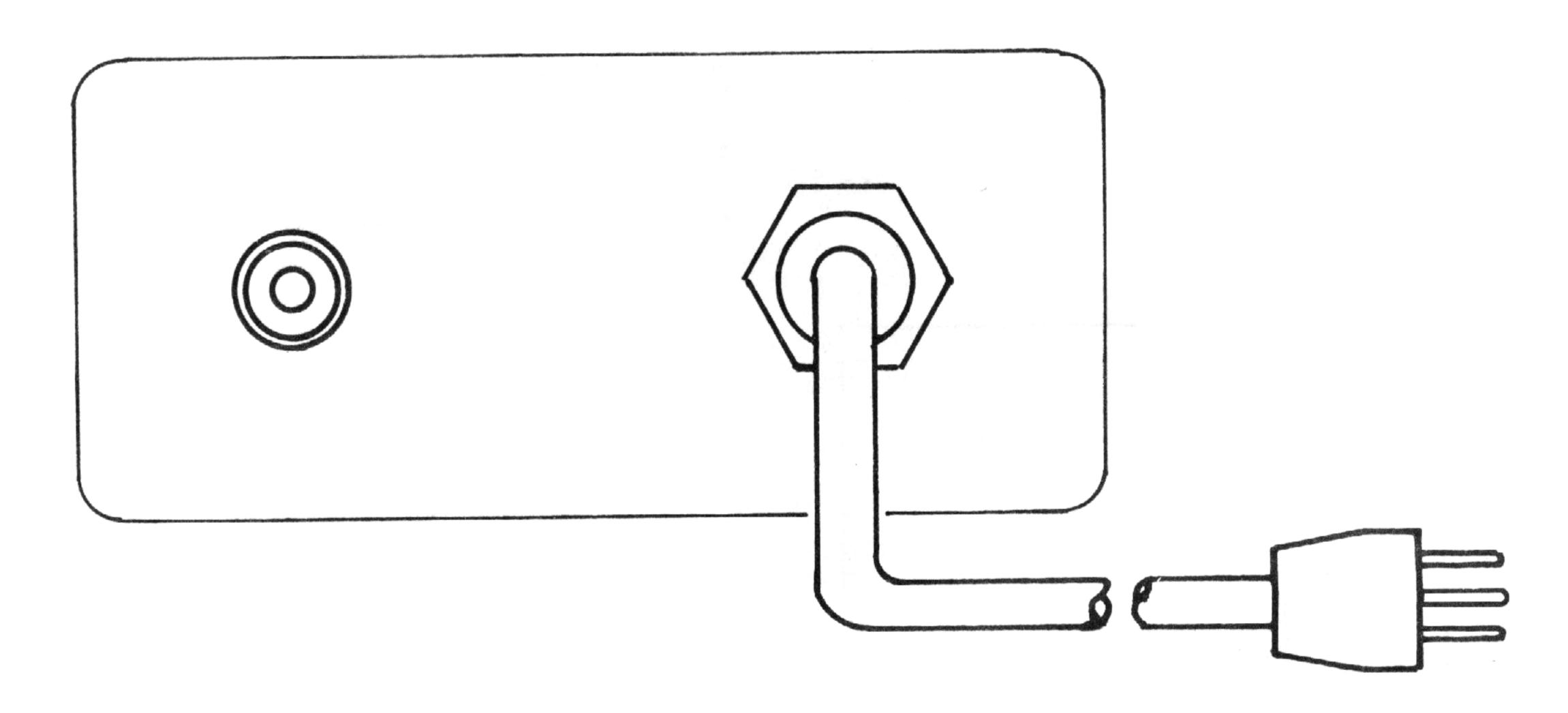
(FIG. 2)

6. Naming of Inside of Machine

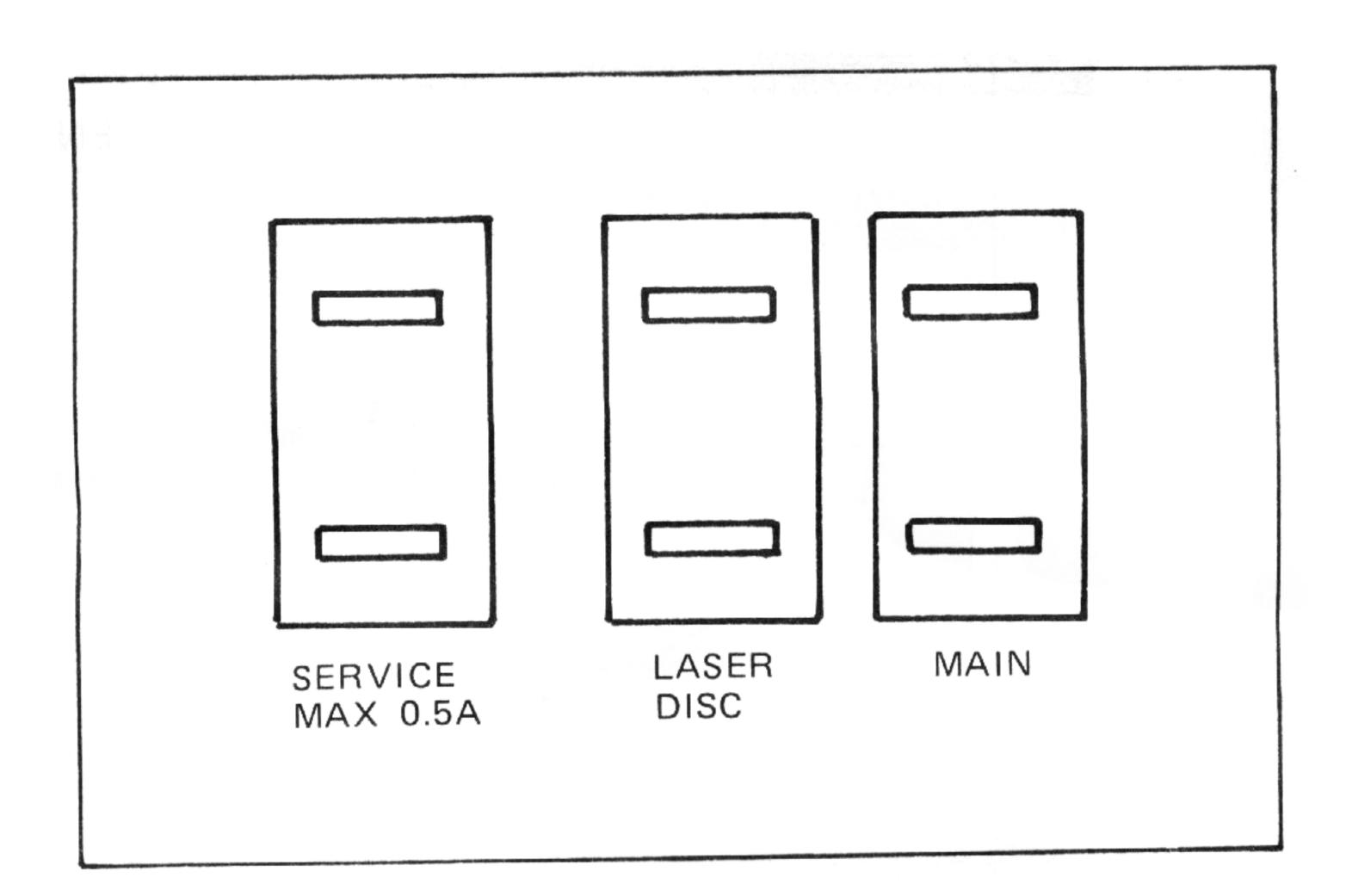


7. Explanation of Inside of Machine

7-1) Power plate



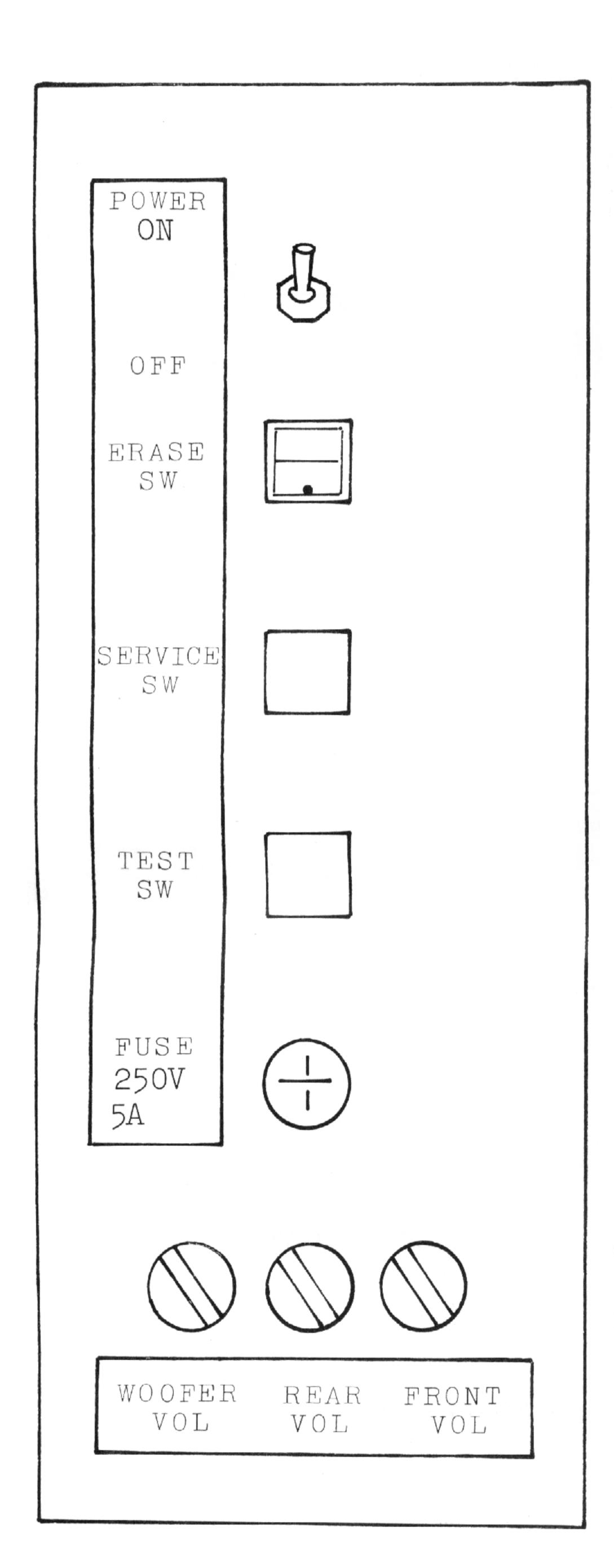
7-2) AC Outlet terminal



- Service Max. 0.5A To be used for soldering iron and so on for service engineer
- LASER DISC Specially for the laser disc
- MAIN MAIN power socket for CRT Monitor, PC boards, fan and illumination lamp.

7—3) Switch board

• Unlock the key located upper side of the coin selector, pull down the selector, and you will find the switch board, with which following operation can be done.

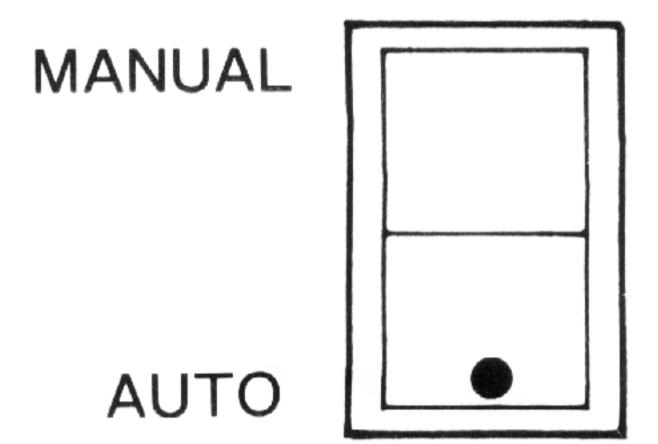


Power Switch

- For ON and OFF at main power source.
- Do not put COIN untill demonstration pattern will appear, upon switching ON.

Erase Switch

To use for eliminating magnetic field on CRT.



MANUAL POSITION

 MANUALLY DEMAGNETIZE CRT MONITOR WHEN UNIT IS BEING OPERATED, KEEP MANUAL PO-SITION FOR TEN MINUTE THEN TURN TO AUTO POSITION. (DO NOT MAINTAIN MANUAL PO-SITION)

AUTO POSITION

AUTOMATICALLY DEMAGNETIZE
 CRT MONITOR WHEN POWER
 SWITCH ON. (NORMAL USE)

Service Switch

To display Credit instead of Counter.

Test Switch

• For self testing (to refer corresponding item).

Fuse

Be sure to use 5 A fuse (Ref. No. 1790382).

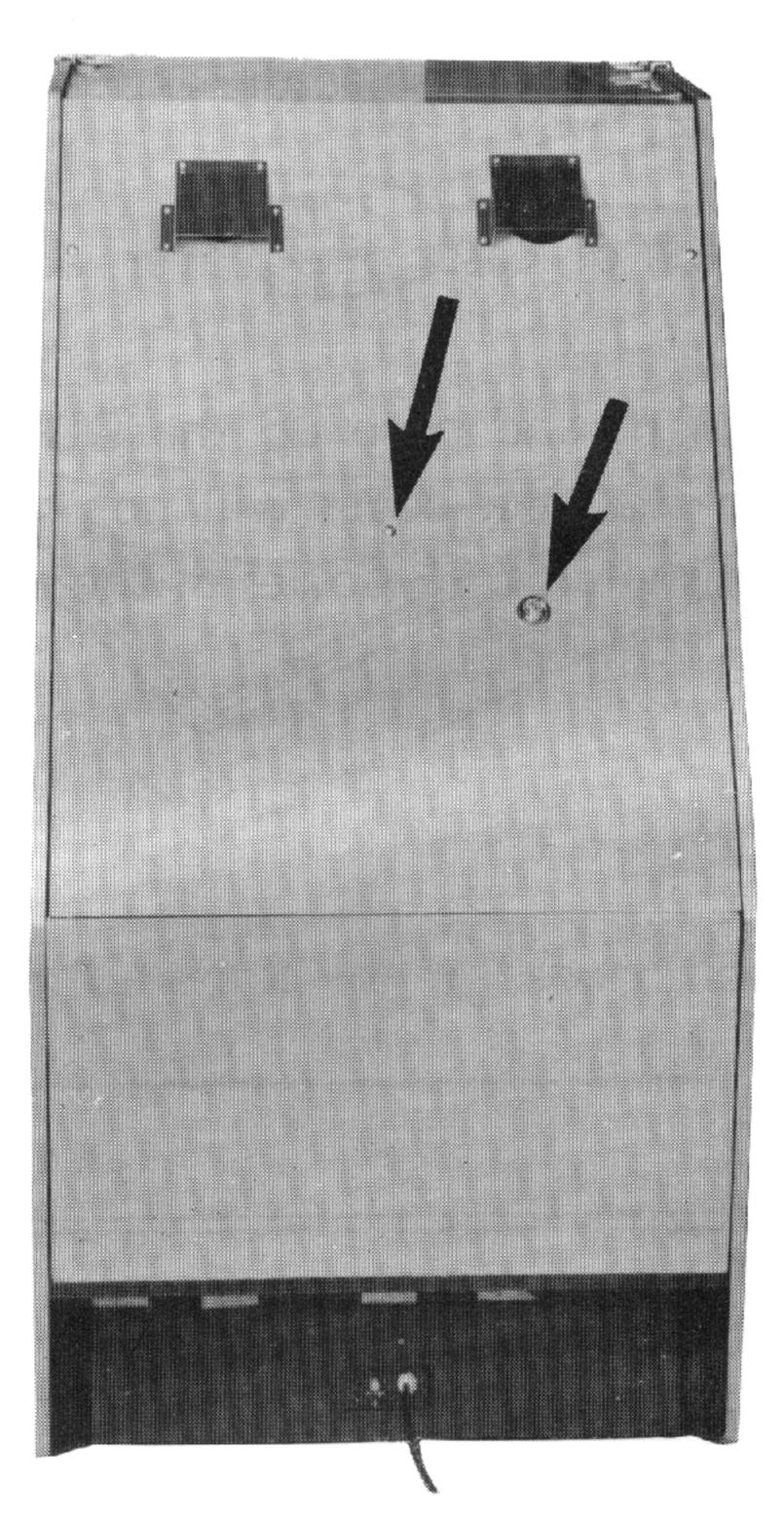
Volume

 To adjust sound volume from the speakers at each Rear, Front and Woofer (under the seat).

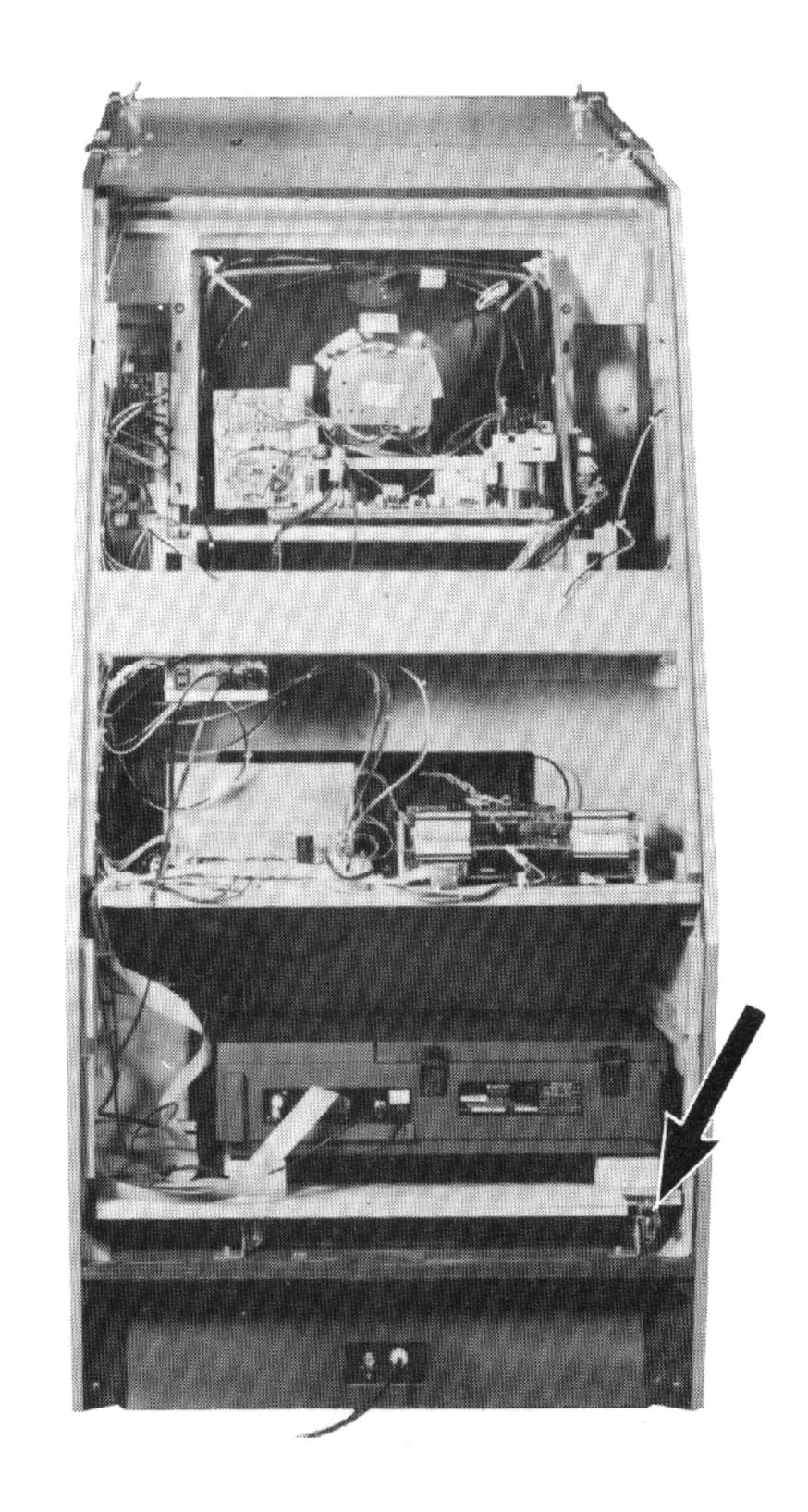
8. Installation of Laser Disc Player

Laser disc player has to be so insulated from bibration, dusts and magnetic field that it is packed separately from the game machine. Please take following procedure to fit on the machine.

1) Dismantle the maintenance door of the machine by unlocking and unscrewing bolts.

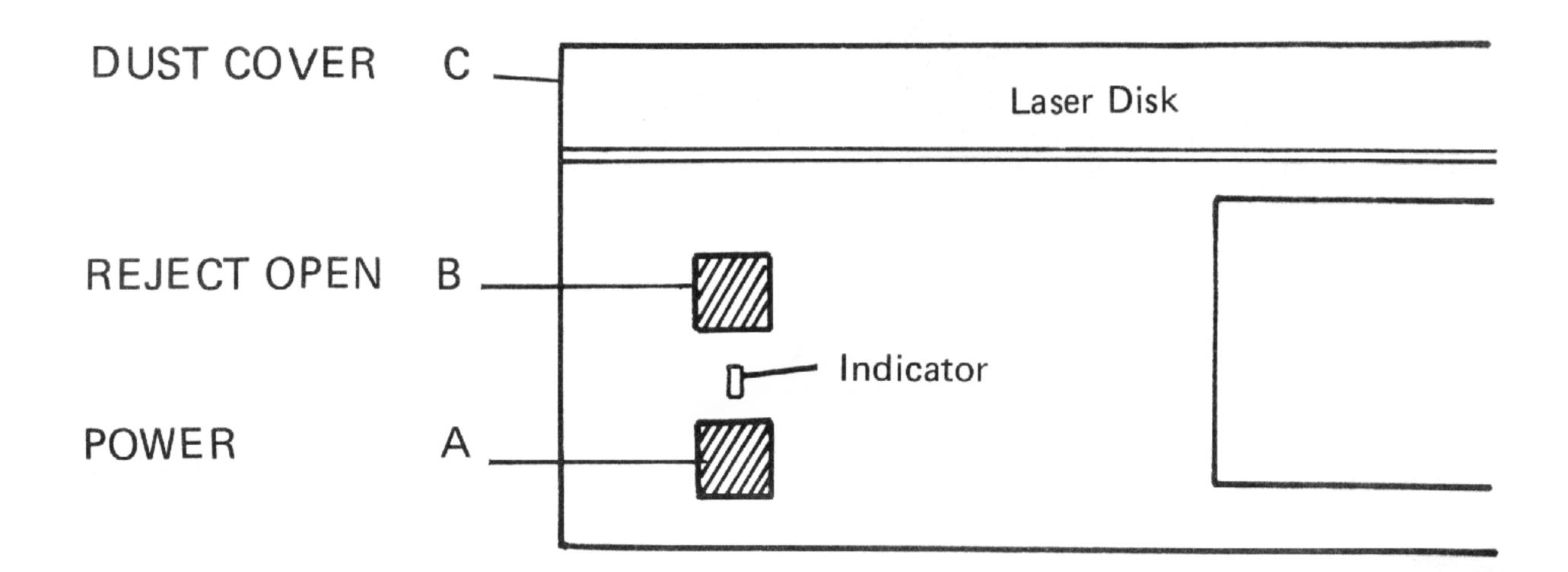


2) Pull back the board by pressing down the stopper positioning at the right side of the laser disc player board.

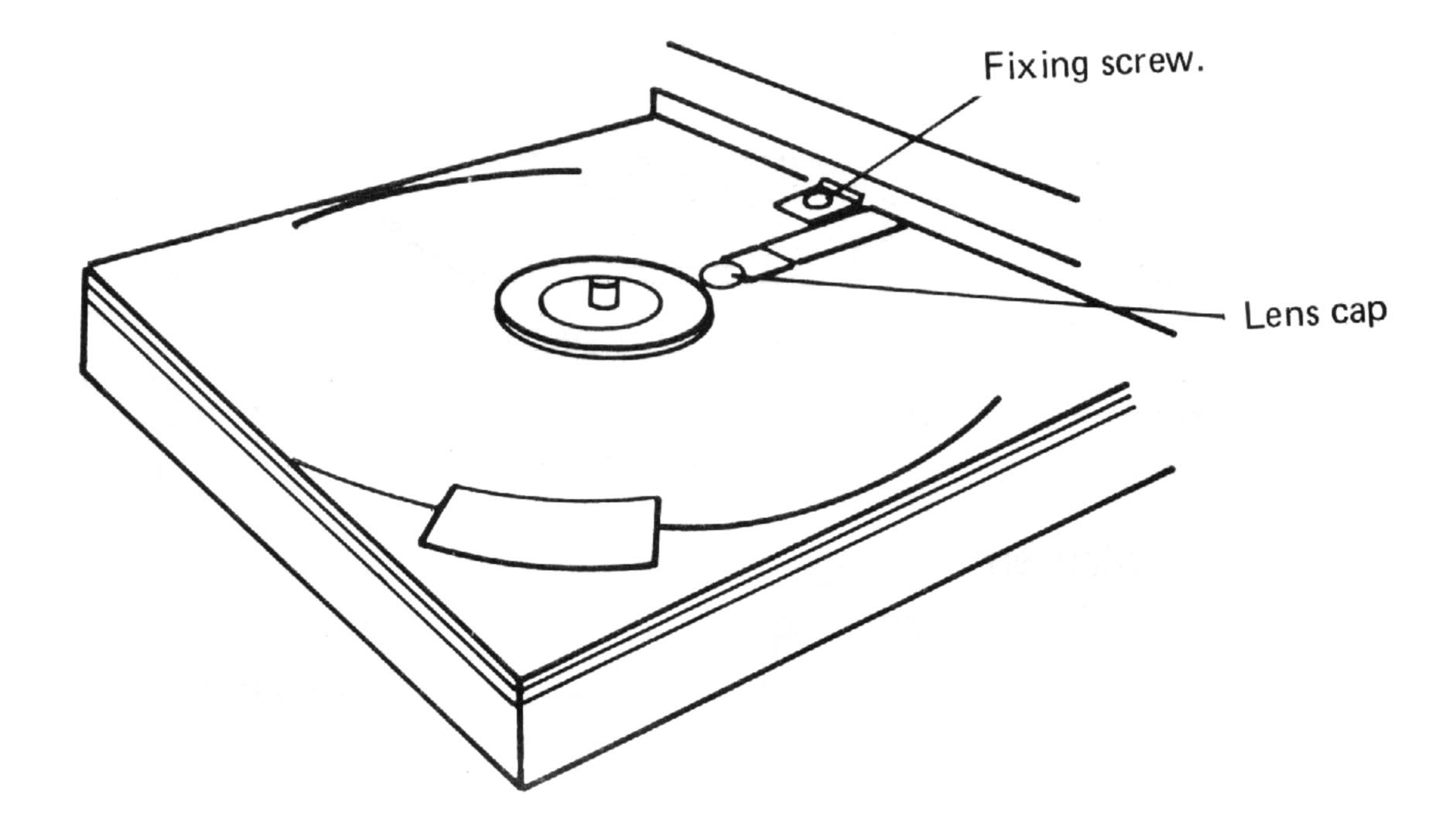


3) For opening the dust cover

- Plug the AC cord from the game machine into the AC socket.
- Plug the Laser disc player AC cord into "LASER DISC" socket on AC outlet terminal.
- Unlock the key upper side of the coin selector, and put POWER SW of the machine ON.
- Push ON the POWER A switch of Laser disc player, and the indication lamp will turn on.
- Push REJECT OPEN Button B, and push up the DUST COVER C by hand to open it.
 (Unless power source is fed the dust cover will not open even pushing REJECT OPEN Button, then after opening it switch OFF power of the machine).



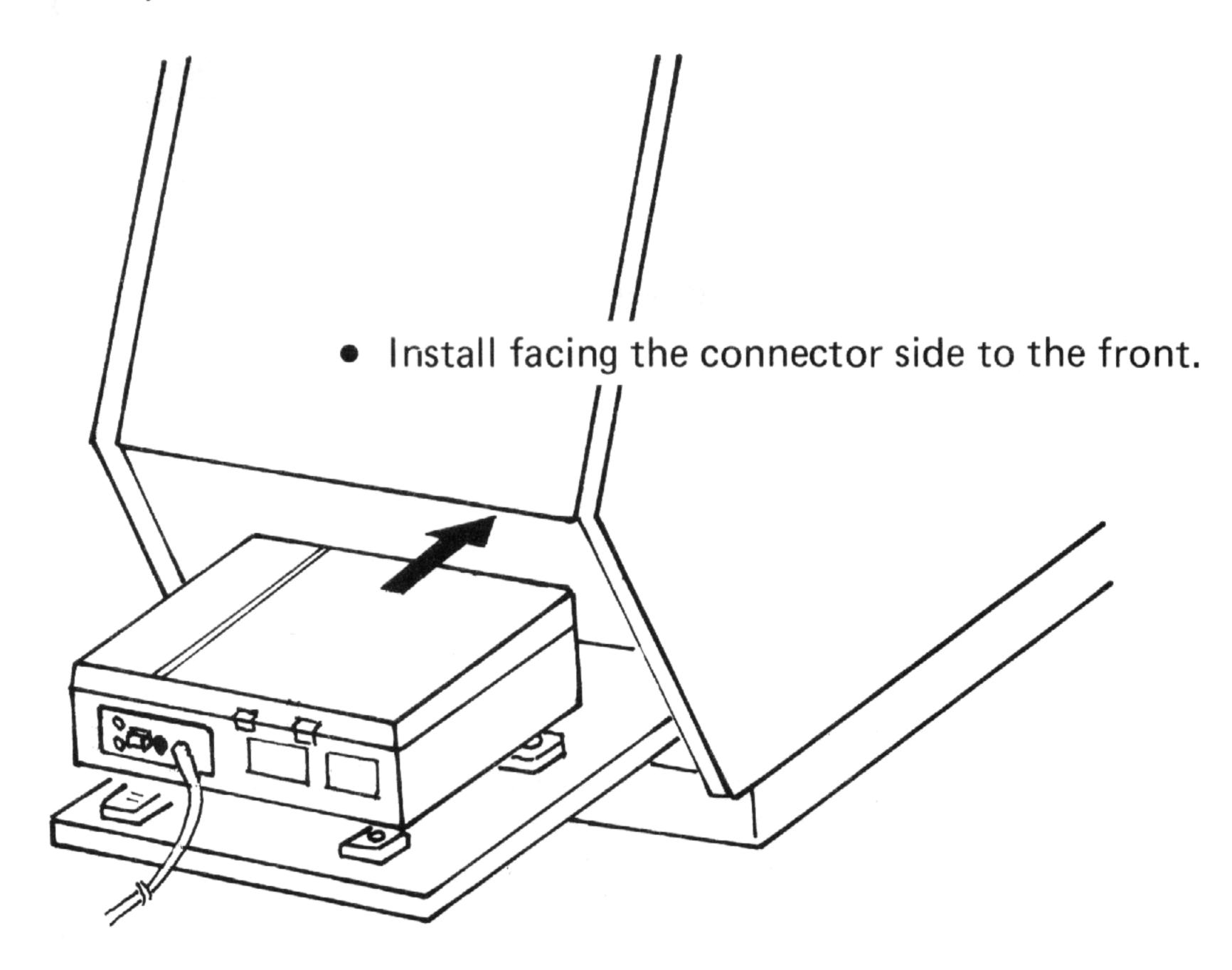
- 4) How to dismantle the fixing screw and lens cap
 - In order to protect internal function during transportation, the fixing screw and lens cap are provided, which have to be dismantled and kept before setting the disc.



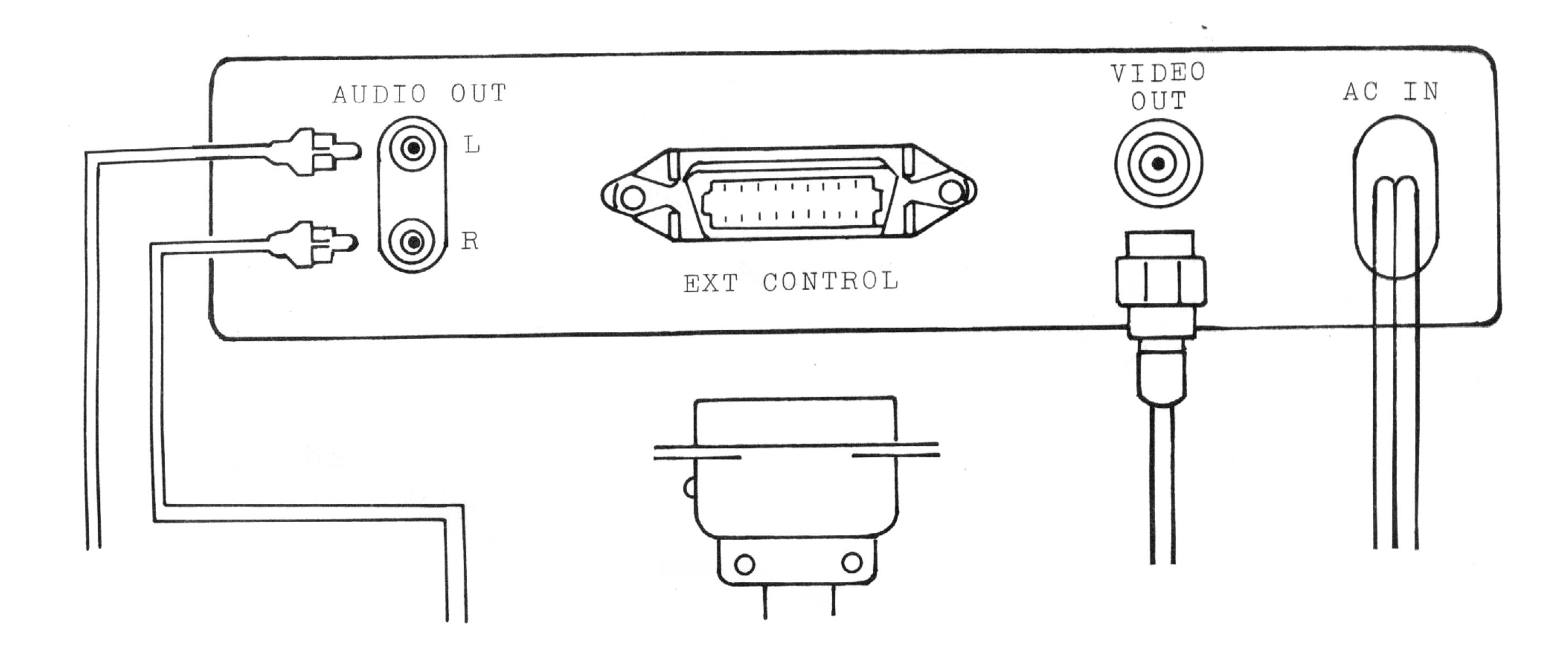
• To stop operation for long time and for transportation, please fix the screw and lens cap without fail.

5) How to fit the disc

- Set the laser disc, putting the label side downward, onto the spindle and close the dust cover.
- 6) Put Laser disc player on the laser disc board facing the connector side to the front and push it with the laser disc player board onto the extreme inside of the machine. Then check the board is certainly locked.



7) Connect each connectors of laser disc player as shown below and check if all the lead wires are connected, but handle carefully and gently.



- AUDIO OUT Sound power output terminal for Laser disc player
 (Identify pin-jacks, white for L and red for R)
- EXT CONTROL The terminal to control Laser disc player through the game PC board.
- VIDEO OUT Picture output terminal of Laser disc player
- ACIN Power socket for AC 100 V. Be sure to plug in the socket inside of the box indicated as LASER DISC.
- 8) Great care must be paid for lead wires not be pulled to damage when taking Laser disc player in and out.

9. Self Test

This machine accomodate SELF TEST function, INPUT TEST, COLOR TEST and CRT POSITION TEST can be performed under the following procedure.

1. While pushing TEST SW on the control board inside of the coin selector, turn POWER SW ON, then INPUT TEST will be comming out on the screen as being indicated below, 2.

2. INPUT TEST

- 1) Setting condition of Dip switch is indicated (to refer Dip switch table).
- 2) Putting each switches indicated to ON, indication at the right side of the corresponding switches turn from 0 to 1, thus confirming normal switching function be done.

 (COIN 2 is not being used).
- 3) Upon finishing INPUT TEST push TEST SW, then proceed to the next COLOR TEST.

INPUT TEST

1 2 3 4 5 6

DSW 1 0 0 0 0 0 0

DSW 2 0 0 0 0 0

FR RIGHT 0 COIN 1 0

FR LEFT 0 COIN 2 0

FLAP RIGHT 0 1 START 0

FLAP LEFT 0 2 START 0

FAZER 0

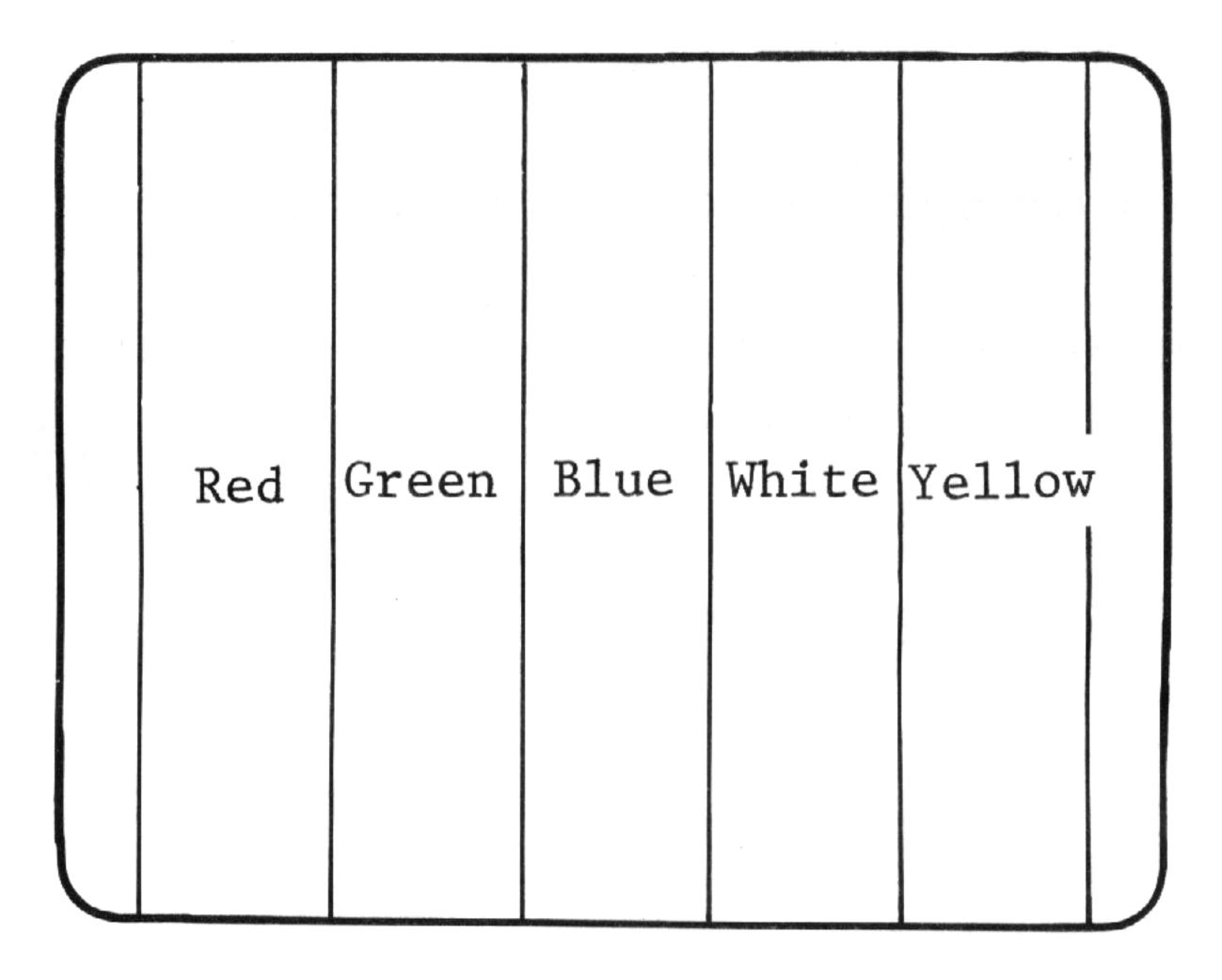
BURN 0

3. COLOR TEST

1) Avail it for color balance adjustment of CRT Monitor (to refer adjustment of CRT monitor).

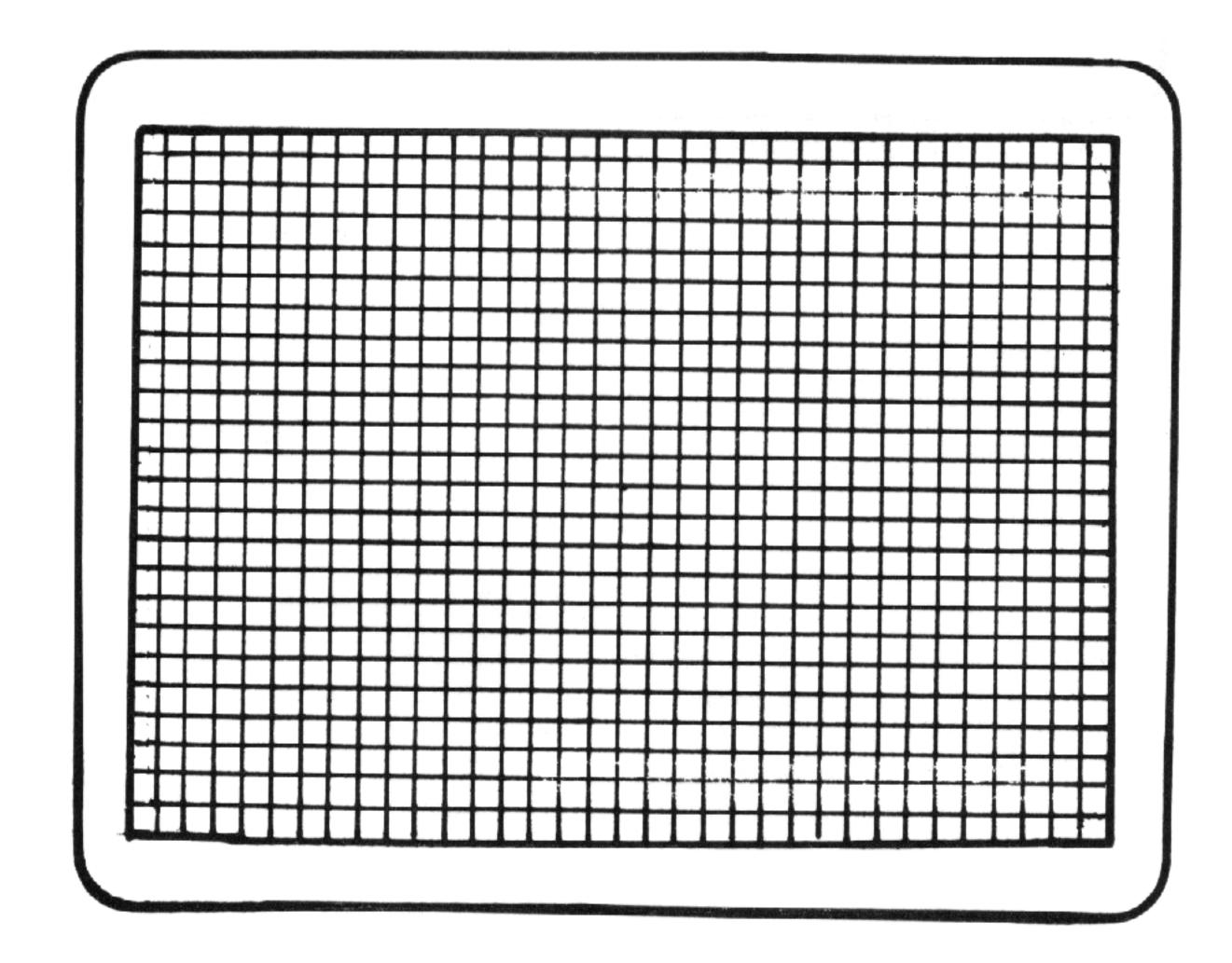
(Do not adjust CRT Monitor when not required.)

2) When finishing COLOR TEST adjustment, push TEST SW, and proceed to the next CRT POSITION TEST.



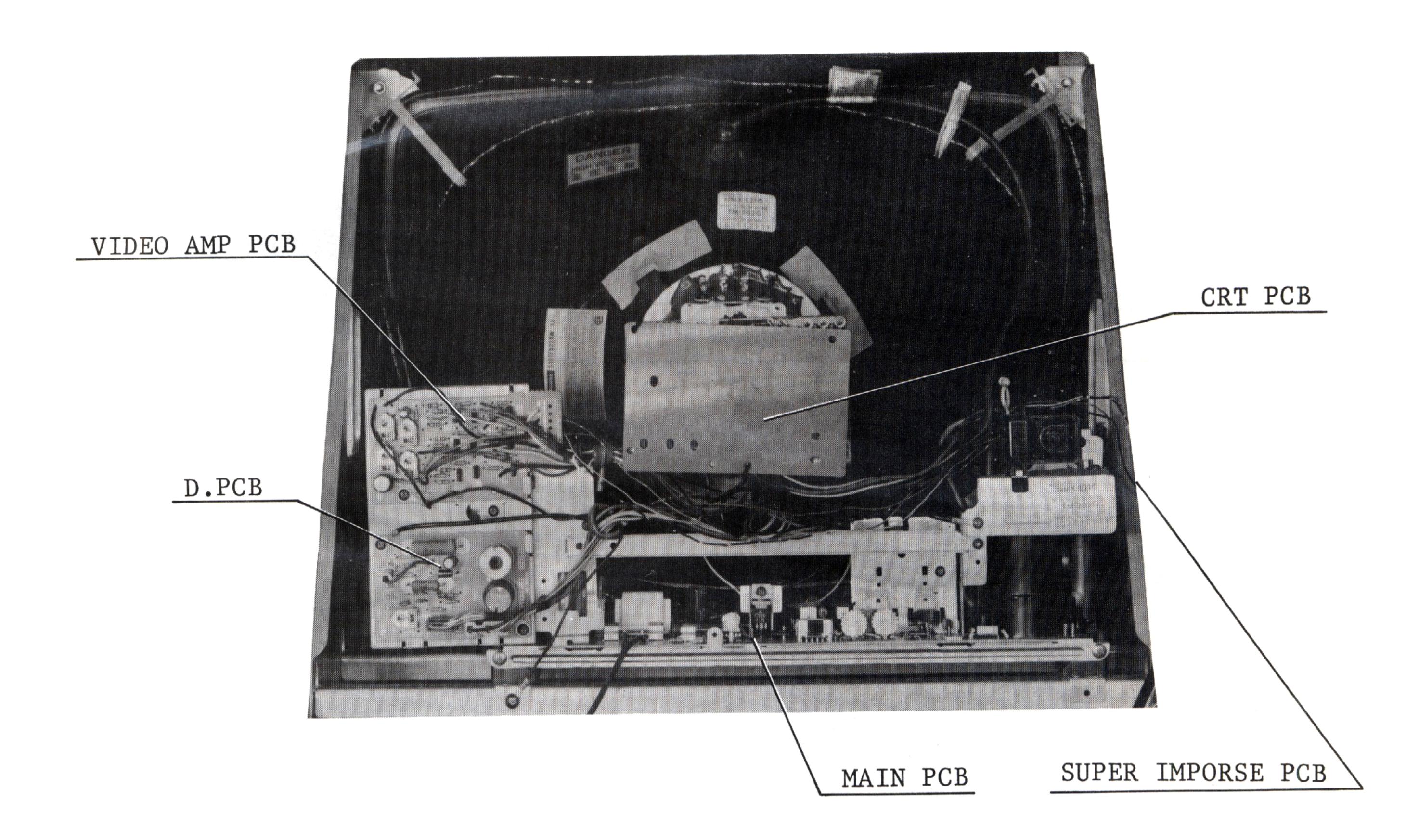
4. CRT POSITION TEST

- 1) Available to check linearity of monitor by CROSS HATCH (to refer CRT Monitor adjustment).
- 2) When CRT POSITION TEST is over, push TEST SW again.
- 3) STAND BY will be comming out on the screen, then, after a while, it will be back to game position.



10. Adjustment of CRT Monitor

- Adjustment of CRT monitor is already done in the factory for the best condition, but slight trimming may be required depending on location.
- O This machine contains super-impose circuit which composes NTSC signal from Laser disc player and RGB input signal of game machine PCB, so careless adjustment will cause disorder on synchronization, picture and color balance, if wrong adjustment is done.
- High voltage is loarded on CRT Monitor part, so please be carefull to adjust it.



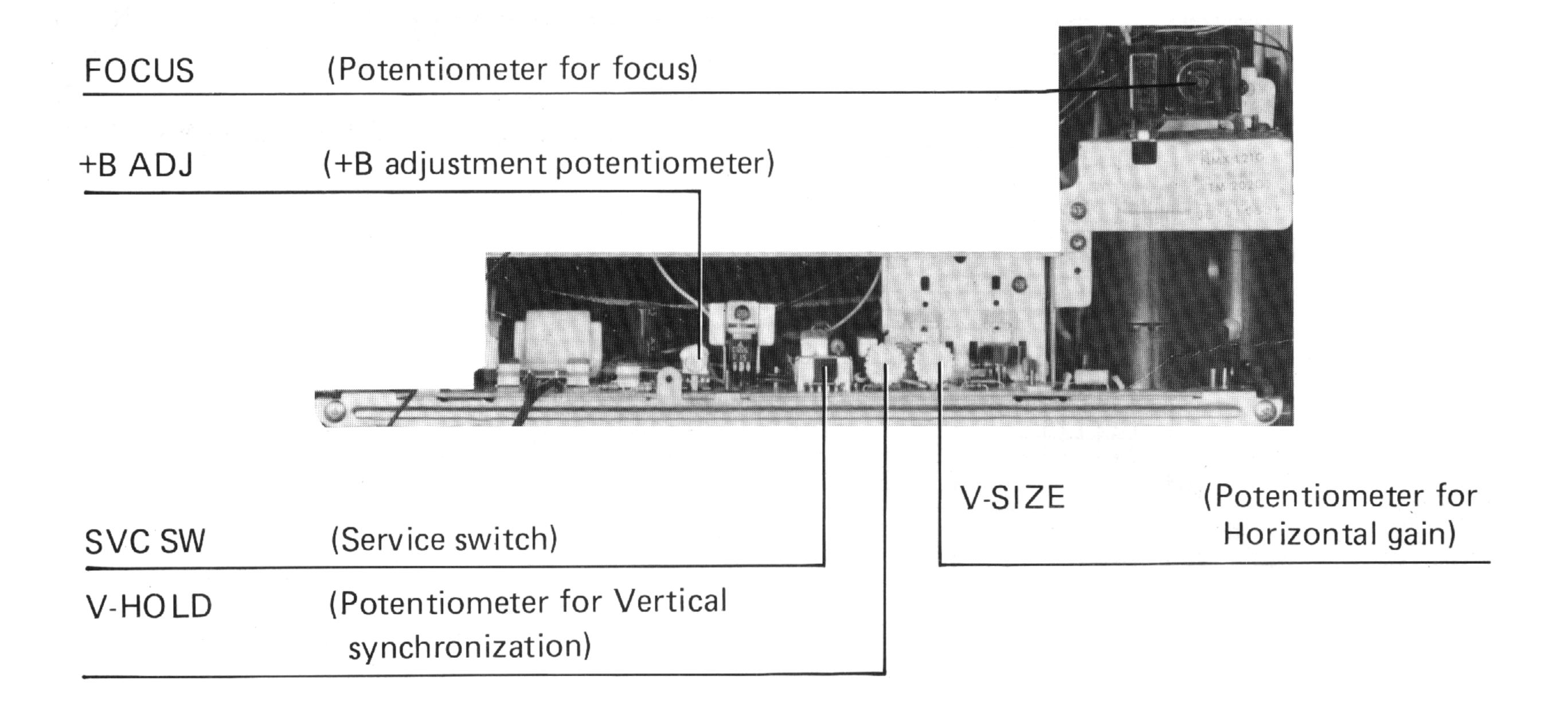
1. VIDEO AMP PRINT PCB (avoid to adjust normally)

BRIGHT	(Potentiometer for brightness)	
R.GAIN	(Potentiometer for RED contrast)	
G.GAIN	(Potentiometer for GREEN contrast)	
B.GAIN	(Potentiometer for BLUE contrast)	

2. D. PRINT PCB

H. POSITION	(Potentiometer for Horizontal position)	
V. POSITION	(Change over tip for Vertical position). Depending on plug-in direction of the connectors, position will be different.	
H. SIZE	(Adjusting coil for Horizontal gain)	

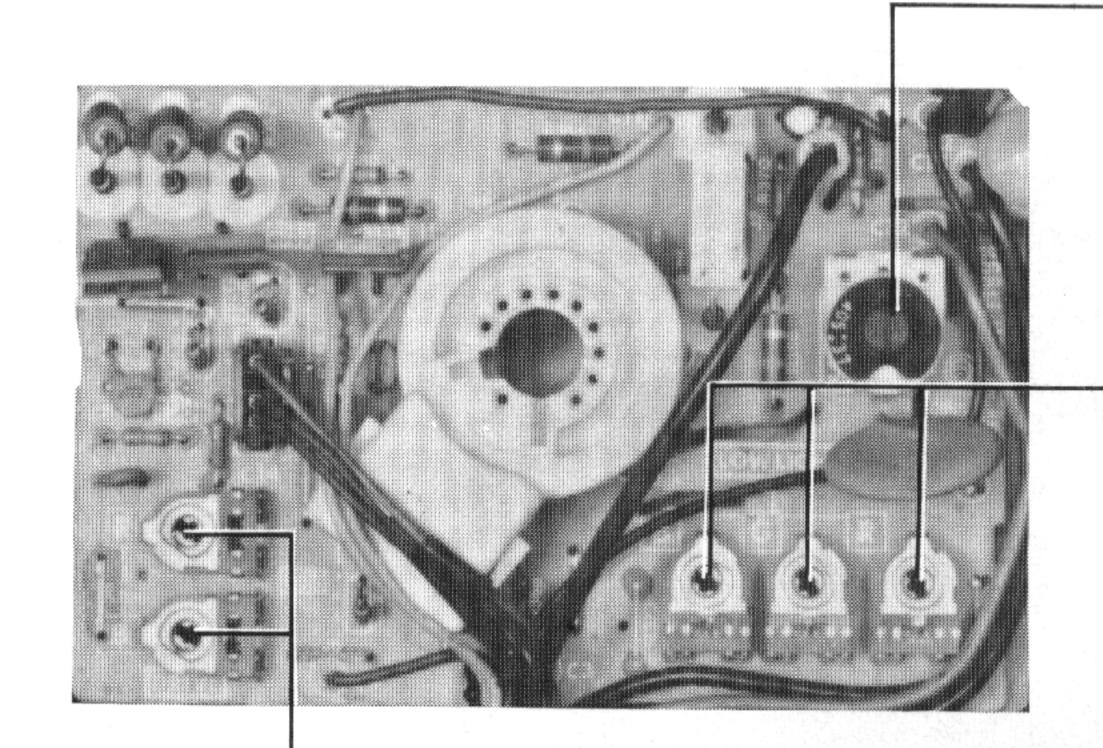
3. MAIN PRINT PCB



4. CRT Printed circuit board (not to adjust normally)

SCREEN

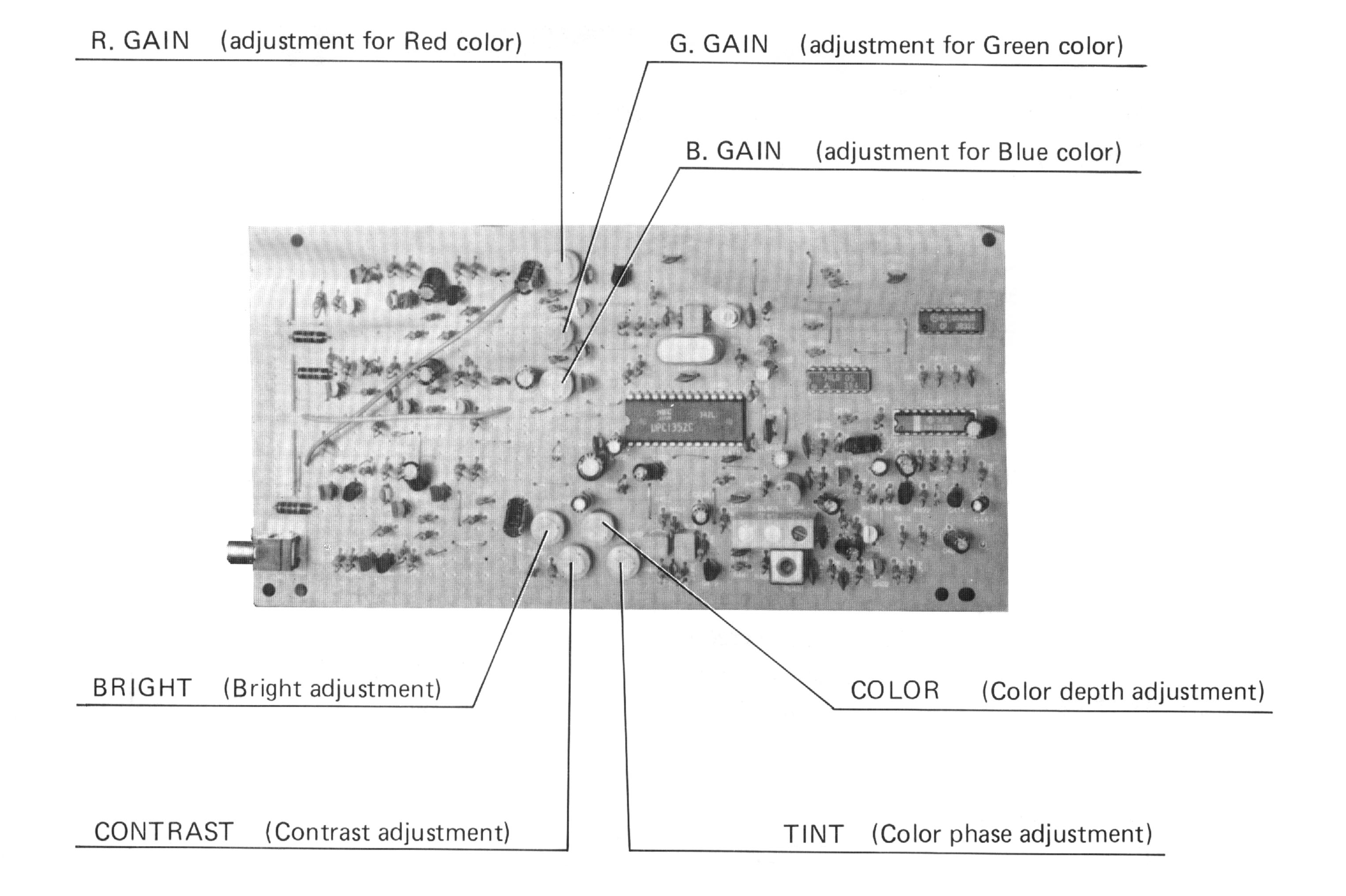
(Potentiometer for screen)



LOW LIGHT R, G, B, (Low light potentiometer for Red, Green and Blue colour)

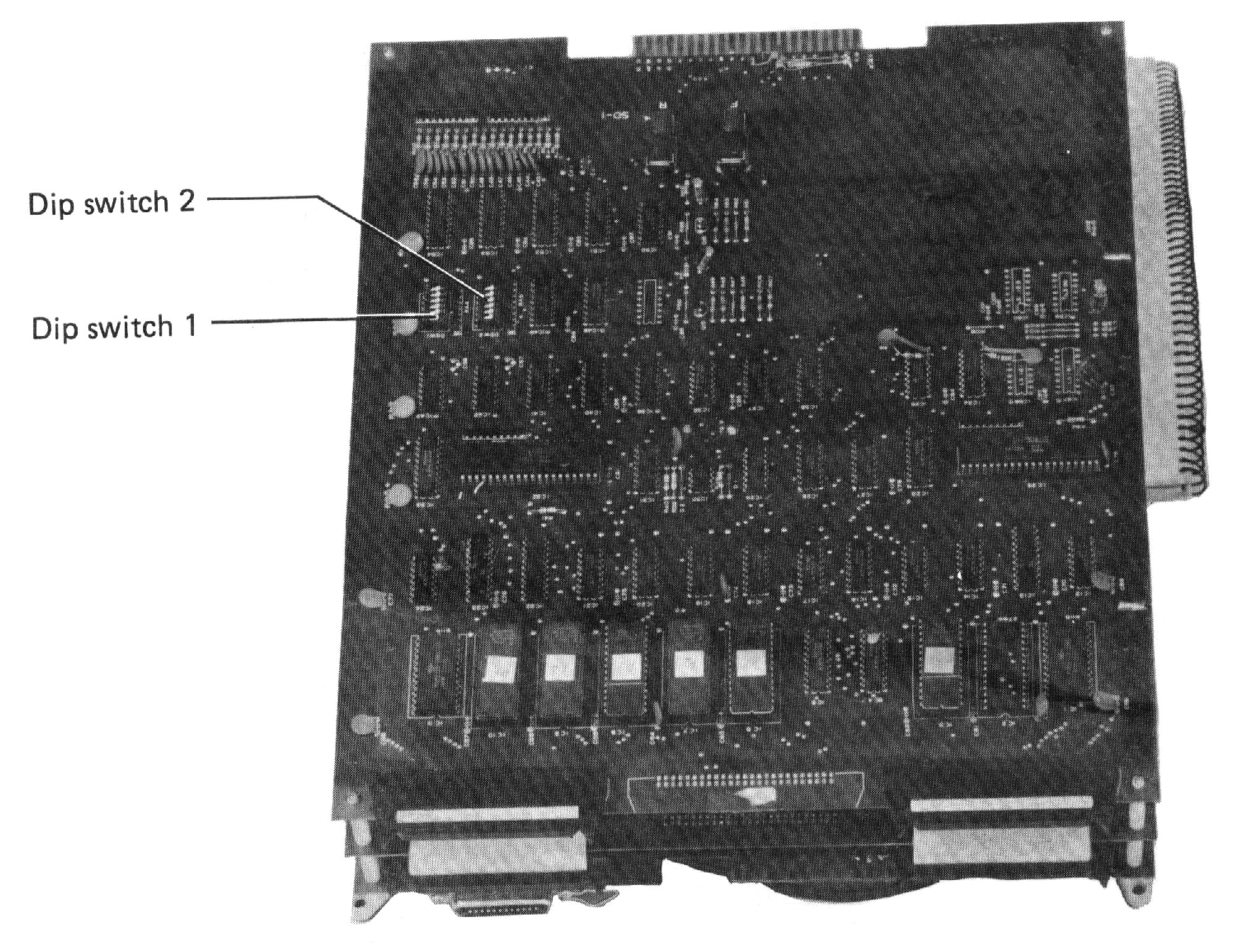
DRIVE R, B (Drive potentiometer for Red and Blue color)

5. Super-impose printed circuit board (not to adjust normally)



11. Dip Switch Table

(1) Location of the dip switch



(Control PC. Board)

(2) Dip switch 1

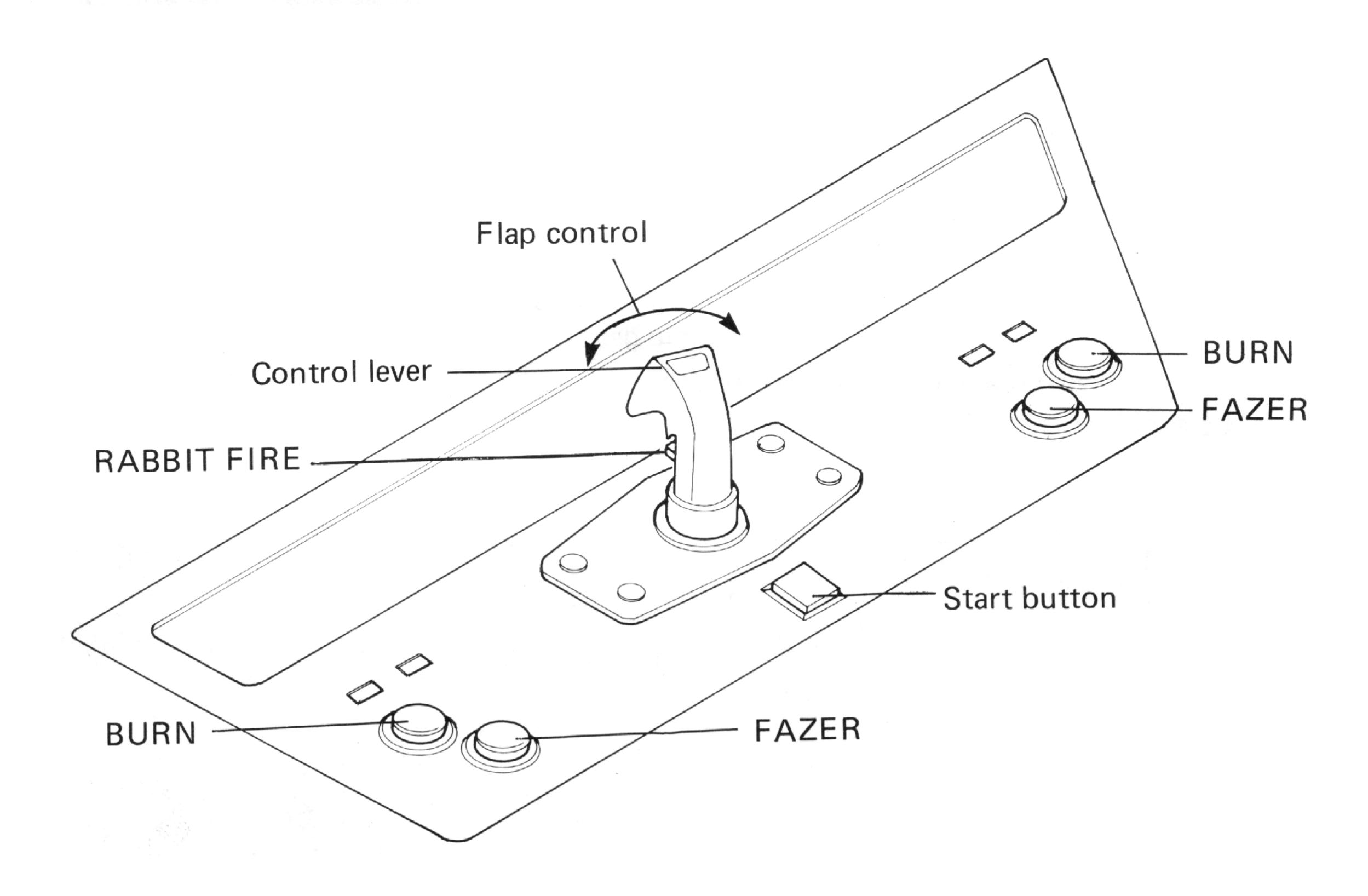
SW		1	2	3	4	5	6
	Yes	ON					
Demonstration sound FROM PC BOARD	No	OFF					
	1 coin/1 credit		OFF	OFF	OFF		
	1 coin/2 credit		OFF	OFF	ON		
	1 coin/3 credit		OFF	ON	OFF		
Coin switch 1	1 coin/6 credit		OFF	ON	ON		
	2 coins/1 credit		ON	OFF	OFF		
	2 coins/3 credit		ON	ON	OFF		
	3					OFF	OFF
No. of flights	4					ON	OFF
	5					OFF	ON
	10					ON	ON

(3) Dip switch 2

In case of inter-stellar cockpit type the coin switch 2 is not used.

	SW	1	2	3	4	5	6
Contents		,					
Barrier UFO	YES	OFF					
Barrier Or O	NO	ON			,		
	1 coin/1 credit		OFF	OFF	OFF		
	1 coin/2 credit		OFF	OFF	ON		
Coin avitab 2	1 coin/3 credit		OFF	ON	OFF		
Coin switch 2	1 coin/6 credit		OFF	ON	ON	NOT	NOT
	2 coins/1 credit		ON	OFF	OFF	USE	USE
	2 coins/3 credit		ON	ON	OFF		

12. Game Procedure



- 1) Game can be started upon pushing START button after putting in specified coin (available to change).
- 2) Move FRALD RANCER (Main character) to the right and to the left, and escape from enemy flights and attack.
- 3) Change direction of FRALD RANCER by flap control, and be prepared to attack them.
- 4) FAZER and RABBIT FIRE are used to attack enemy ftights for battle in the air.
- 5) Depending on screen MAIN computer "RABIT" will come down to the middle and be the target (+). At this moment, aim the target on the ground and attack by BURN. (When target (+) is not on the screen you can not attack by BURN).
- 6) As being mentioned above, escape from enemy flights, and at the same time attack and destroy enemy flights.

13. Cleaning of Filter

Laser disc should not be dusted by any means.

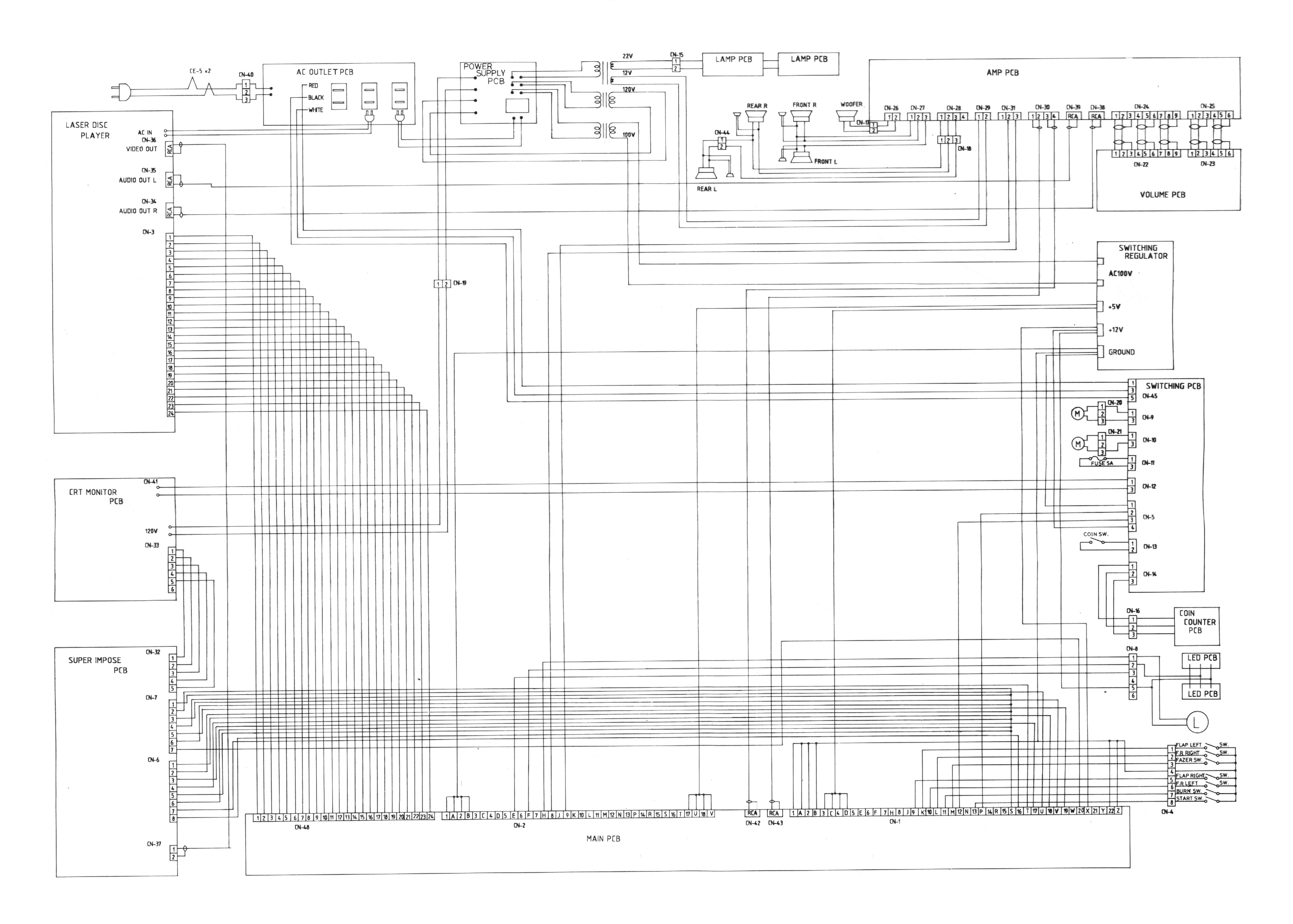
Cleaning of filter must certainly be done once in fortnight.

Take out the maintenance door and detouch the filter positioned at the bottom, wash it out with water, then dry throughly in shadow.

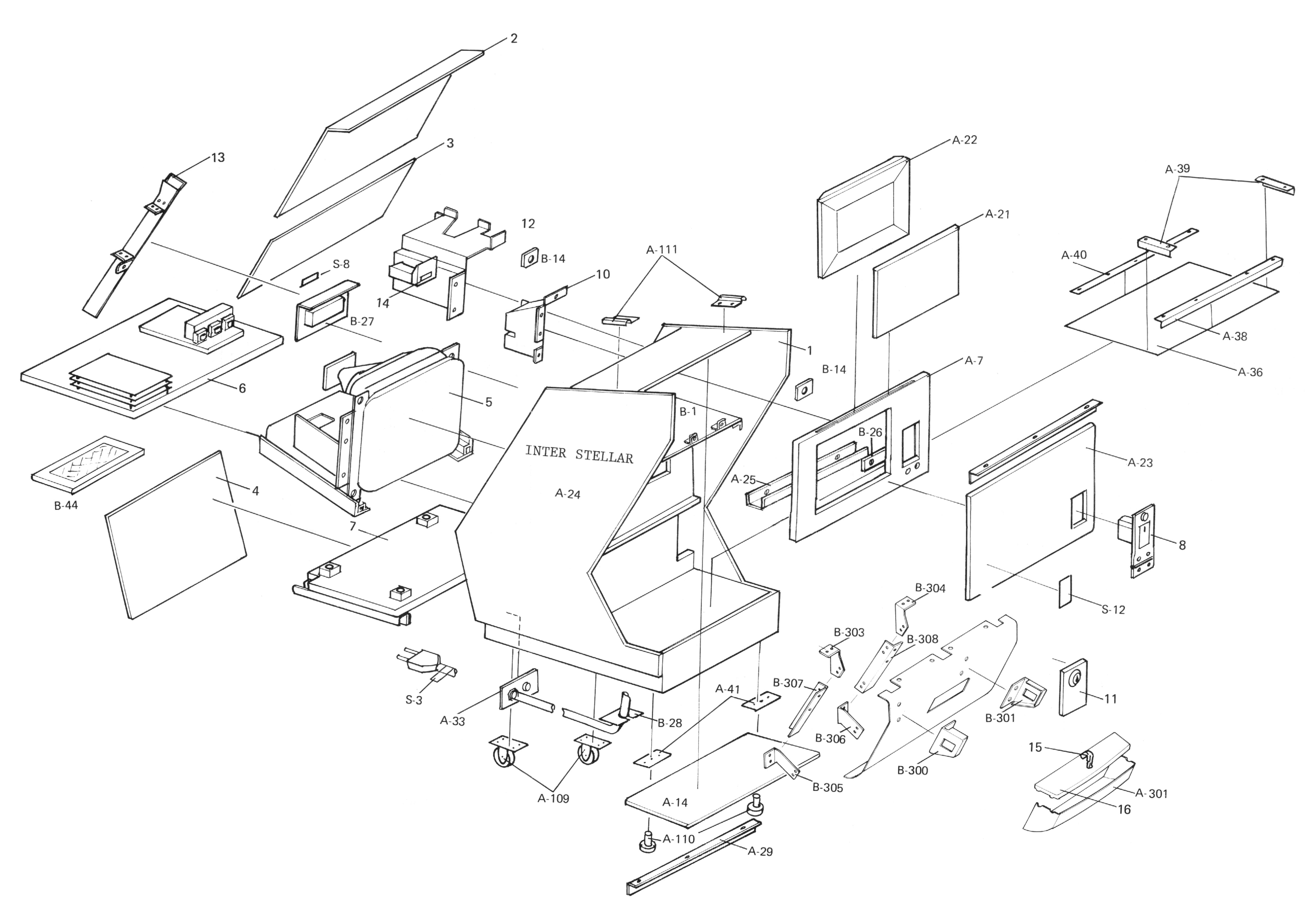
For fixing it, please take care to eliminate gap.

Cleaning with chemical agent like Alchool, Benzene and so on may damage the filter, it should be avoided absolutely.

WIRING DIAGRAM



FRONT CABINET

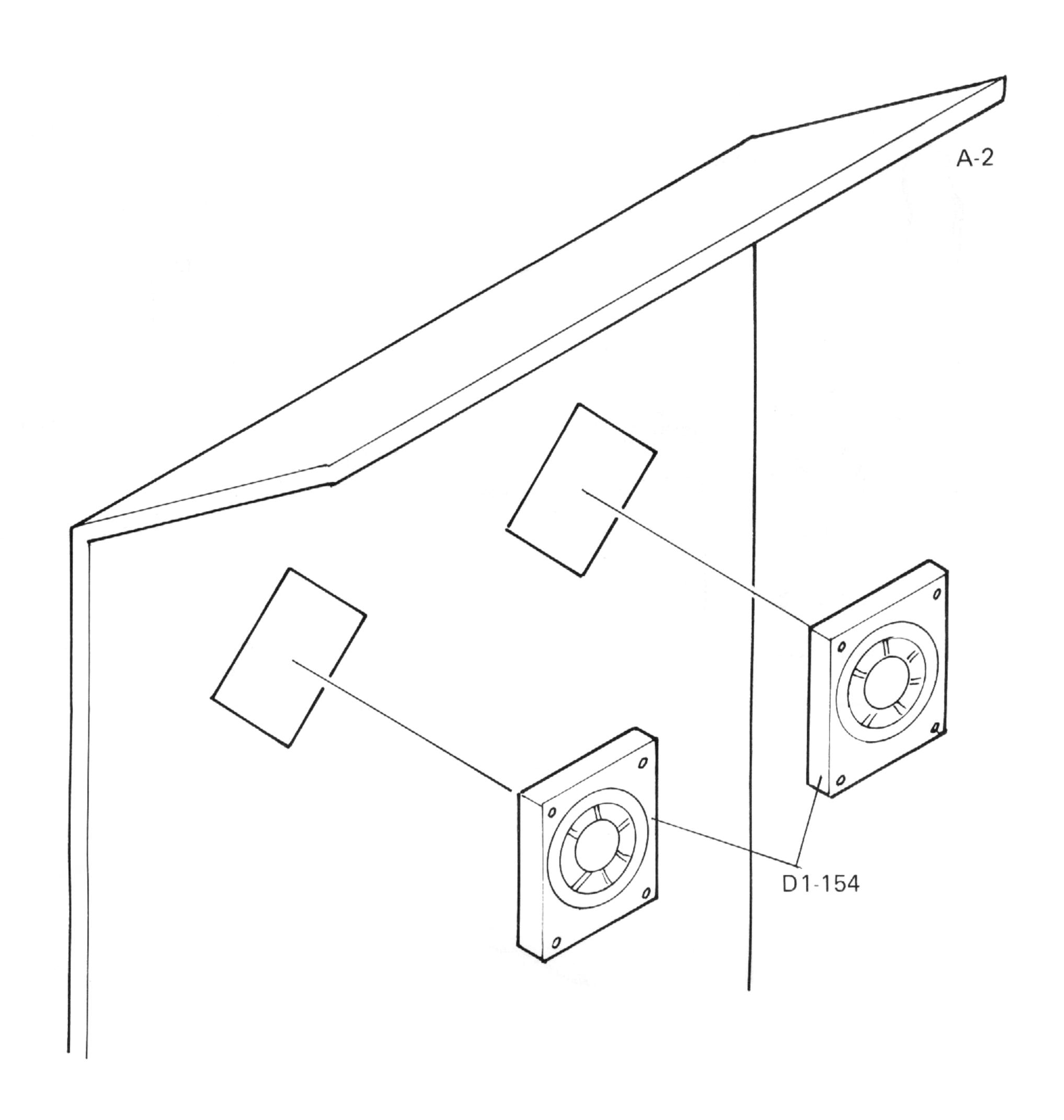


FRONT CABINET

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
A-7 A-14 A-21 A-22 A-23 A-24 A-25 A-27 A-29 A-33 A-36 A-38 A-39 A-40 A-41 A-109 A-110 B-11 B-14	FRONT PANEL BASE TOP INNER PLATE (F) GLASS VIDEO MASK FRONT PANEL INTER STELLAR LABEL (L) FRONT PANEL HOLDER (BOTTOM) INTER STELLAR LABEL (R) FRONT PANEL HOLDER (TOP) AC CORD STOPPER FRONT FLOOR MAT TRIM ANGLE (2) SIDE TRIM ANGLE FLOOR MAT HOLDER ADJUSTER ADJUSTER ROPE HUNGER L ANGLE (D) DOOR STOPPER	8B00050 8B00064 8B00057 8B00041 8E00024 8E00055 8G00041 8E00027 8G00027 8G00020 8H00012 8H00019 8G00030 8S00054 KHN-50HR AJ-36 8A00022 8S00018 8S00021	1 1 1 1 1 1 1 1 1 2 2 2 2 2 3 2
B-26 B-27 B-44 B-62 B-300 B-301 B-303 B-304 B-305 B-306 B-307 B-308	HINGE PLATE AC OUTLET HOLDER FILTER AC CORD STOPPER HOLDER (U) CONTROL PANEL ANGLE (L) CONTROL PANEL ANGLE (R) UPPER SUPPORT (L) UPPER SUPPORT (R) LOWER SUPPORT (L) LOWER SUPPORT (R) DASH BOARD ANGLE (R)	8S00011 8S00035 8A00016 8S00088 8R00044 8R00045 8R00052 8R00025 8R00024 8R00054 8R00055	1 1 1 1 1 1 1 1 1 1 1 1 1
LA-9 LA-16 LA-23 LA-25 LA-32 LA-32 LA-39 LA-42 LA-42 LA-45 LA-46 LA-46 LA-50	SCREW, M6 x 35 SCREW, M6 x 45 SCREW, M4 x 30 SCREW, M6 x 25 SCREW, M6 x 25 SCREW, M6 x 35 SCREW, M6 x 35	SRC0635 SRC0645 SRC0430 CPM-3625 CPM-3625 STU3635 STU3635 STU3635 STU3635 STU3635 STU3635 STU3635 STU3635 SZK6X50 SDU3635	1 4 2 8 4 3 3 4 2 2 4 4 2

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
LA-58 LA-61 LA-69 LA-71 LA-76 LA-85 LA-88 LA-114 LA-115 LA-118 LA-300 LA-325	SCREW, ϕ 4.1 x 13 SCREW, ϕ 4.1 x 20 SCREW, ϕ 4.1 x 13 SCREW, ϕ 3.5 x 20 SCREW, ϕ 4.5 x 16 SPRING WASHER, M10 SPRING WASHER, M6 SPRING WASHER, M6 SPRING WASHER, M4 NUT, M6 NUT, M6 NUT, M4 SCREW, M4 x 7 SCREW, ϕ 4.5 x 16	SWU3R13 SWK3R20 SWK3R13 SVU3T20 SVU3Q16 WSK19Z WSM612W WSM612W WSM4081 NHM3060 NHM3060 NHM3040 SZKA407 SWU3Q16	4 5 3 4 4 1 4 2 1 4 2 1 4
LB-1 LB-5 LB-21 LB-37 LB-72 LB-73 LB-77 LB-78 LB-79 LB-80 LB-81 LB-82 LB-91 LB-98 LB-91 LB-98 LB-300 LB-301 LB-303 LB-304 LB-304 LB-305 LB-307 LB-309 LB-310	SCREW, M6 x 20 SCREW, M6 x 20 SCREW, M3 x 20 SCREW, \(\phi \) 4.1 x 13 SCREW, \(\phi \) 4.1 x 13 NUT, M6 SPRING WASHER, M6 SCREW, M6 x 35 SCREW, M6 x 35 SCREW, M6 x 25 SCREW, M6 x 25 SCREW, M6 x 20 SCREW, M6 x 20 SCREW, M6 x 15 SCREW, M6 x 15	STU3620 SDU3635 CPM3620 FPM3320 SWU3R13 SWU3R13 SWU3R13 SWU3R13 SWU3R13 SWU3R13 SWU3R13 NHM3060 WSM612W SRC0635 SRC0635 SDU3625 SDU3625 SDU3525 SZK6620 SZK6620 SZK6620 STU3615 STU3615	2112112384421122222444
LB-332 LB-338 LB-339 LB-340 LB-341 LB-343 S-3 S-8 S-12	NUT, M6 NUT, M6 SPRING WASHER, M6 x 35 SPRING WASHER, M6 x 35 SPRING WASHER, M6 SPRING WASHER, M6 WASHER, M6 VOLTAGE LABEL AC OUTLET LABEL HOW TO PLAY LABEL	NHM3060 NHM3060 WSM612W WSM612W WSM612W WPU619X 8E00045 8E00019 8E00044	2 2 2 2 2 1 1 1

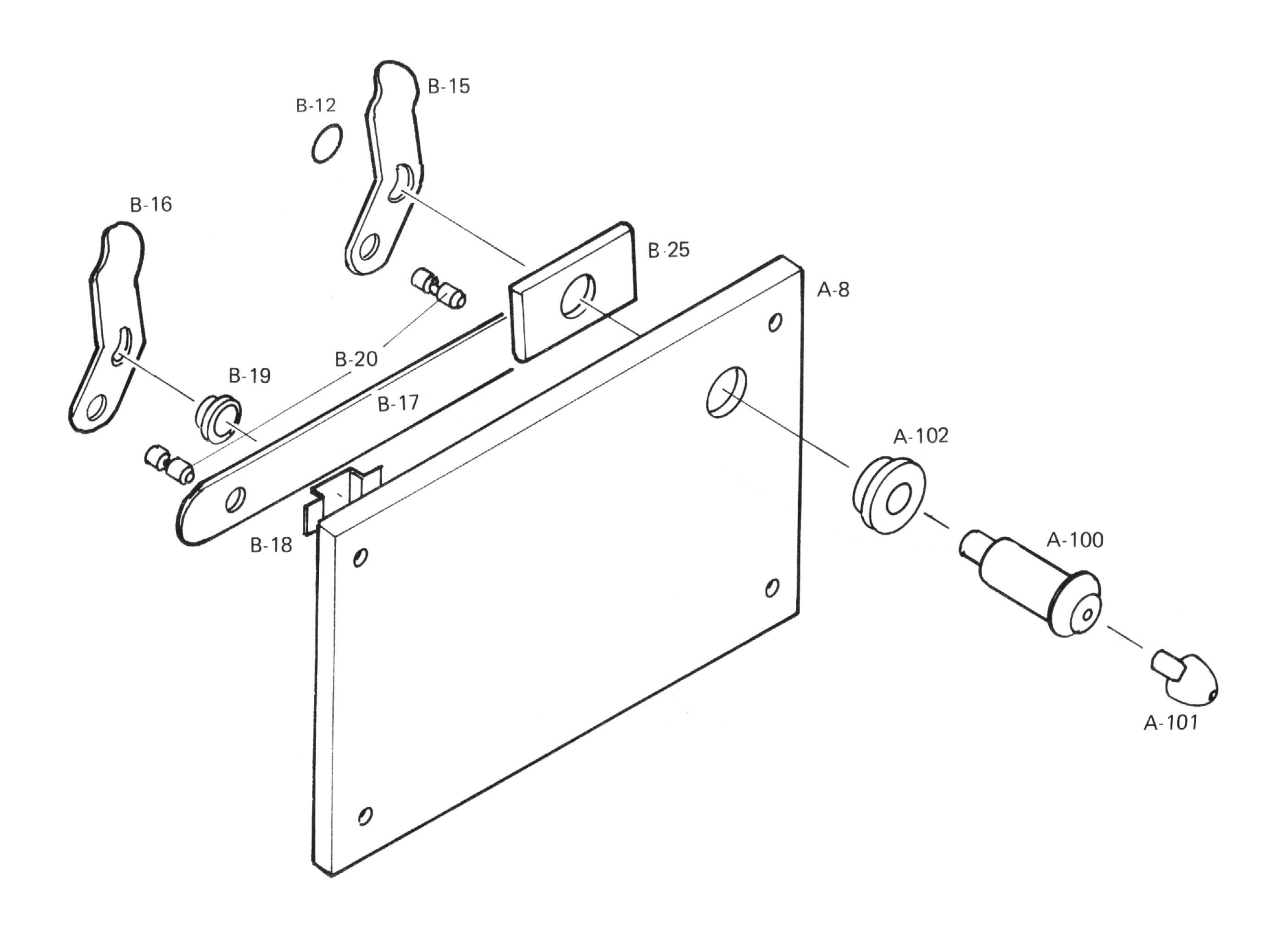
FRONT COVER (TOP) ASS'Y



FRONT COVER (TOP) ASS'Y

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
A-2	FRONT COVER (TOP)	8B00073	1
D1-154	FAN MOTOR	1640219	2
LA-57	SCREW, φ4.1 x 13	SWU3R13	12
LB-57	SCREW, φ3.5 x 35	DPM1T35	8

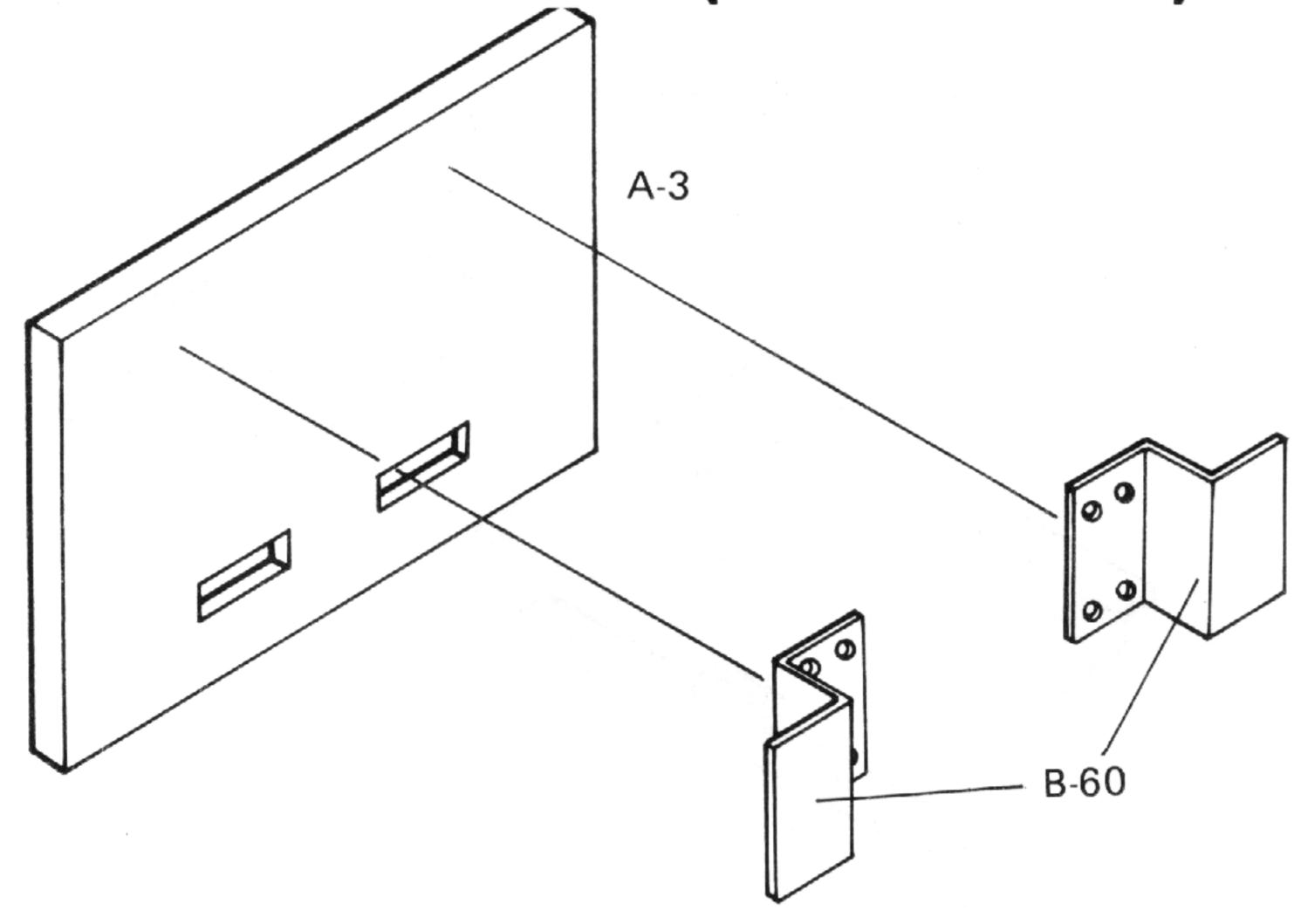
FRONT COVER (MIDDLE) ASS'Y



FRONT COVER (MIDDLE) ASS'Y

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
A-8	FRONT COVER (MIDDLE)	8B00060	1
A-100	LOCK	8A00011	1
A-101	KEY	8A00013	1
A-102	TRIM RING	6H00152	1
B-12	SPACER	8U00012	1
B-15	KEY LOCK (A)	8S00045	1
B-16	KEY LOCK (B)	8S00046	1
B-17	JOINT	8R00067	1
B-18	KEY LOCK HOLDER	8S00044	1
B-19	SPACER	8U00009	1
B-20	JOINT STUD	8U00010	2
B-25	KEY HOLDER PLATE	8S00010	1
LB-31	SCREW, M4 x 10	FPM3410	1
LB-71	SCREW, φ4.1 x 13	SWU3R13	4
LB-75	SCREW, $\phi 4.1 \times 13$	SWU3R13	2
LB-119	E-RING, φ4	EEU0040	2

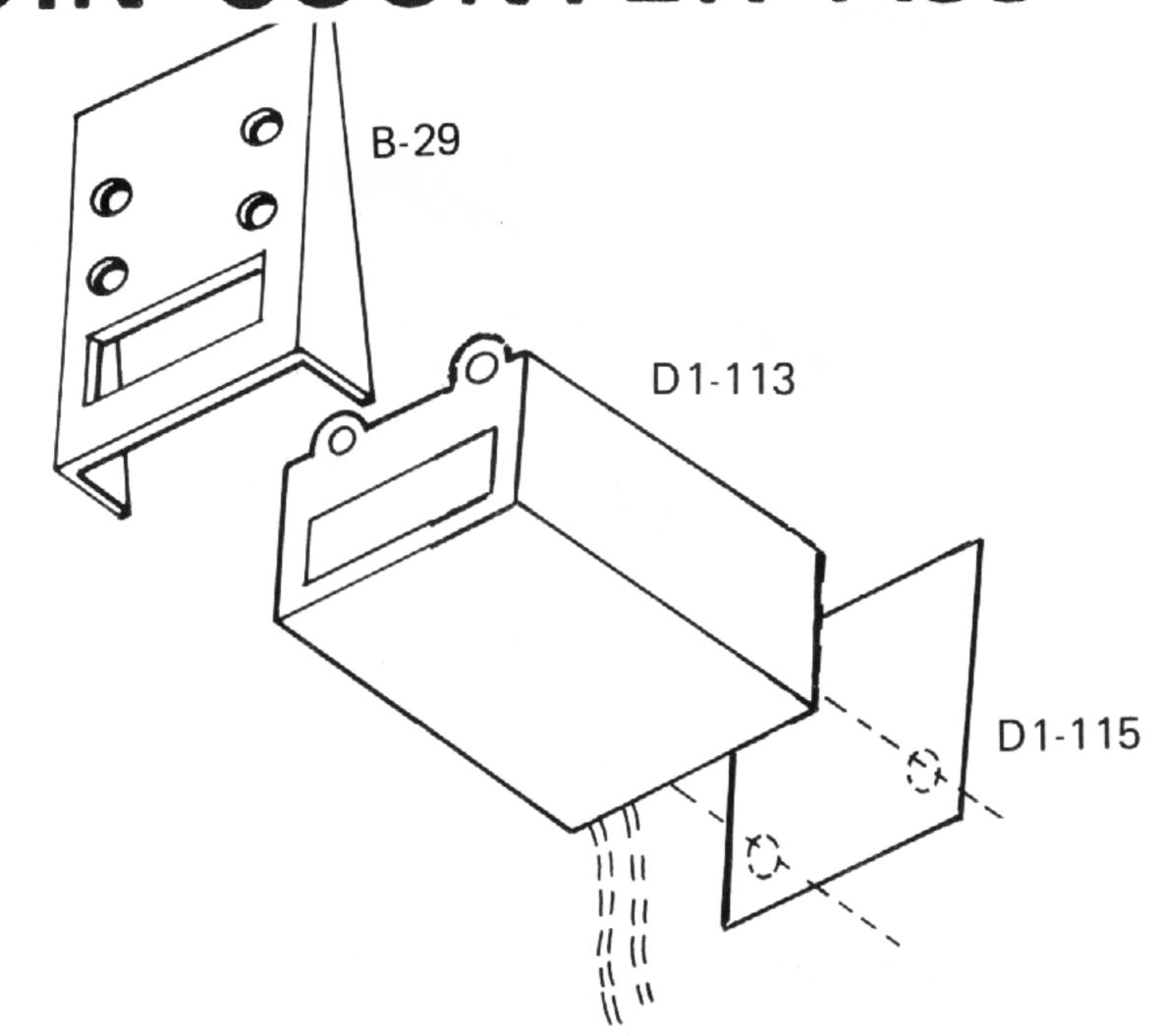
FRONT COVER (BOTTOM) ASS'Y



FRONT COVER (BOTTOM) ASS'Y

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
A-3	FRONT COVER (BOTTOM)	8B00048	1
B-60	COVER HOLDER	8S00055	2
LB-70	SCREW, φ4.1 x 13	SWU3R13	8

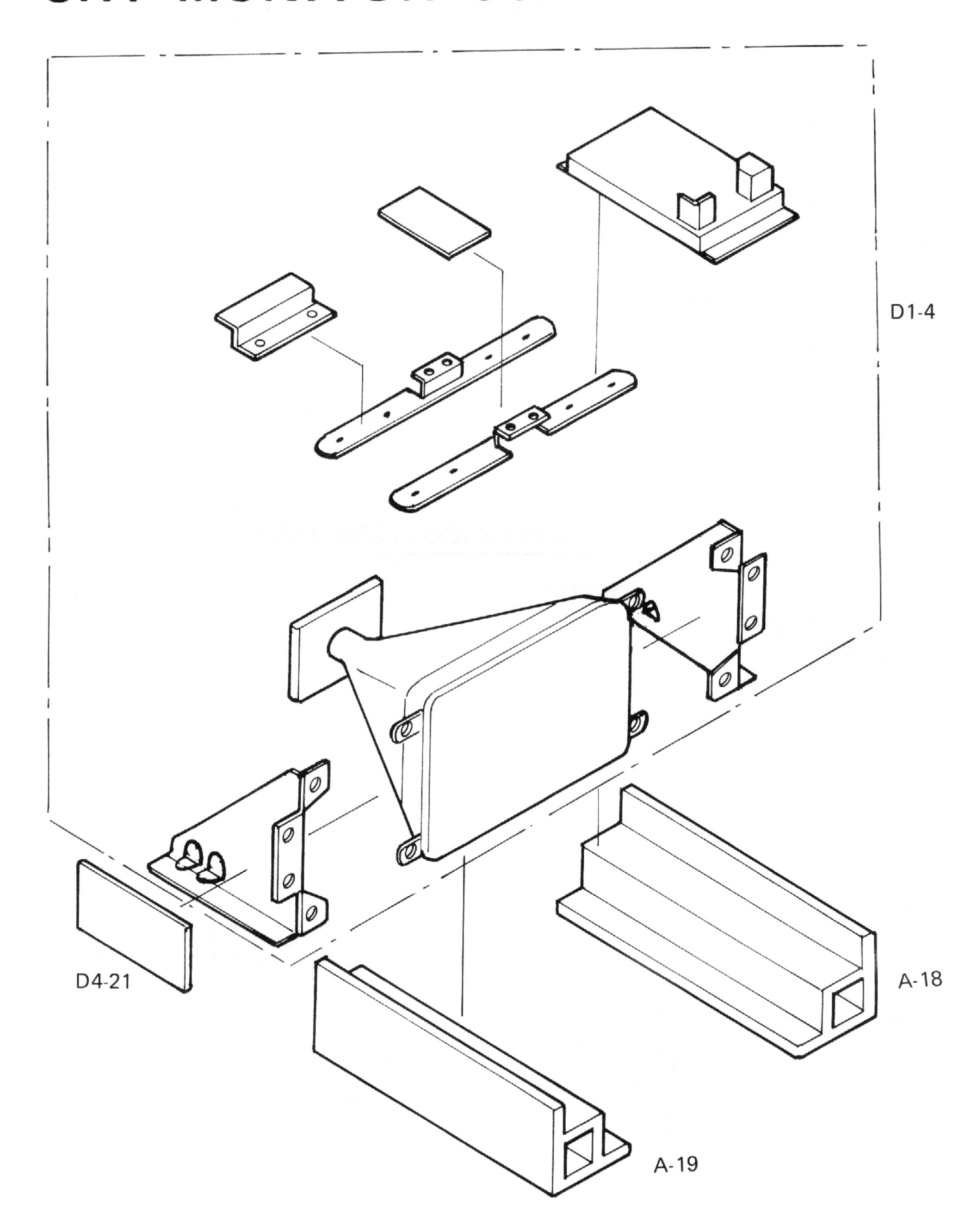
COIN COUNTER ASS'Y



COIN COUNTER ASS'Y

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
B-29	COIN COUNTER BRACKET	8S00043	1
D1-113	COIN COUNTER	1670189	1
D1-115	COIN COUNTER PCB ASS'Y	1613207	
LB-15	SCREW, M3 x 4	SDM3304	2
LB-43	SCREW, M3 x 5	FPM3305	

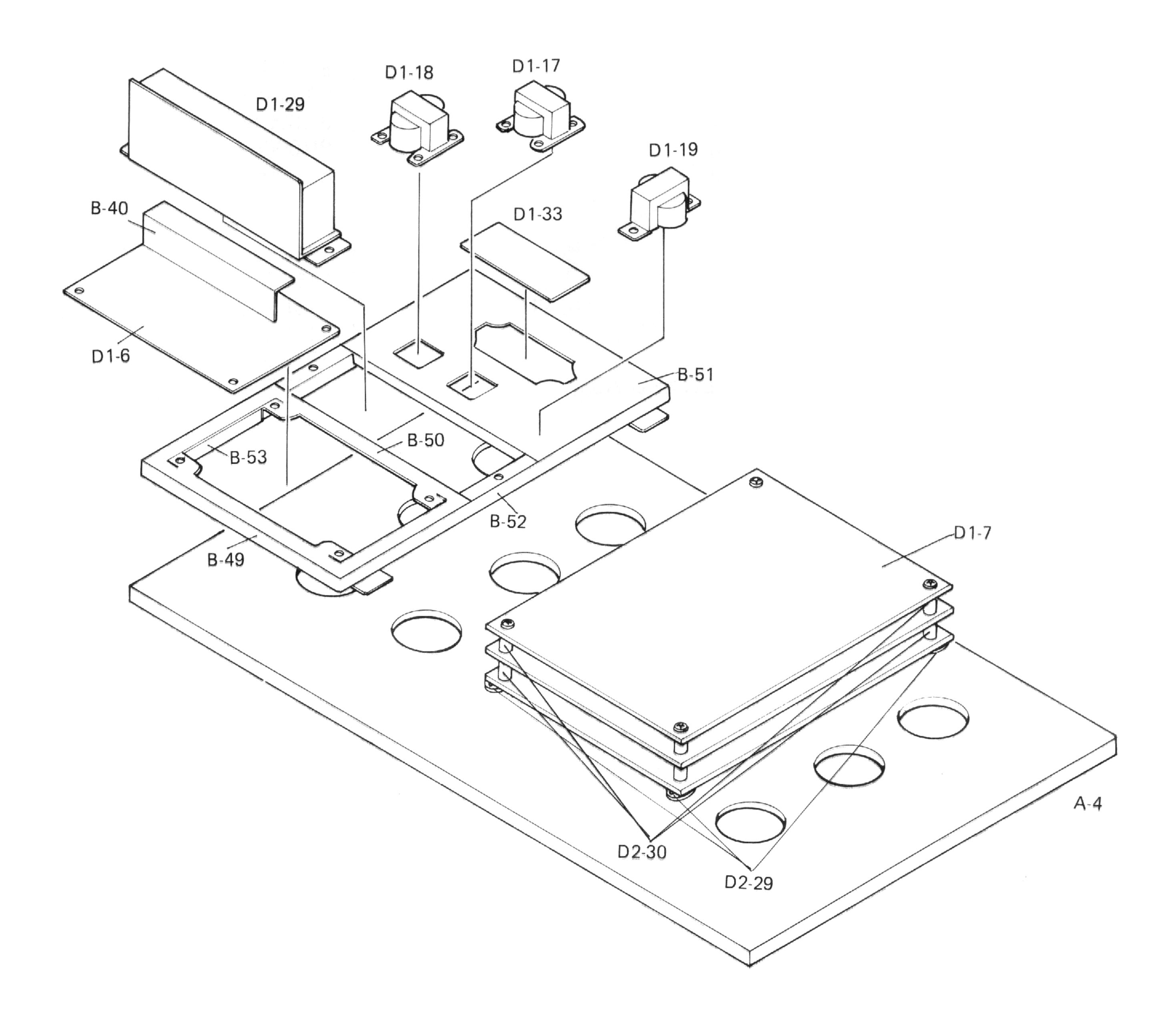
CRT MONITOR COMPLETE ASS'Y



CRT MONITOR COMPLETE ASS'Y

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
A-18 A-19 D1-4	CRT BASE (RIGHT) CRT BASE (LEFT) CRT MONITOR ASS'Y	8B00058 8B00059 1810503	1 1 1
D4-21	SUPER IMPOSE PC BOARD ASS'Y	1613161A	1
LB-2 LB-3	SCREW, M6 x 20 SCREW, M6 x 20	STU3620 STU3620	1

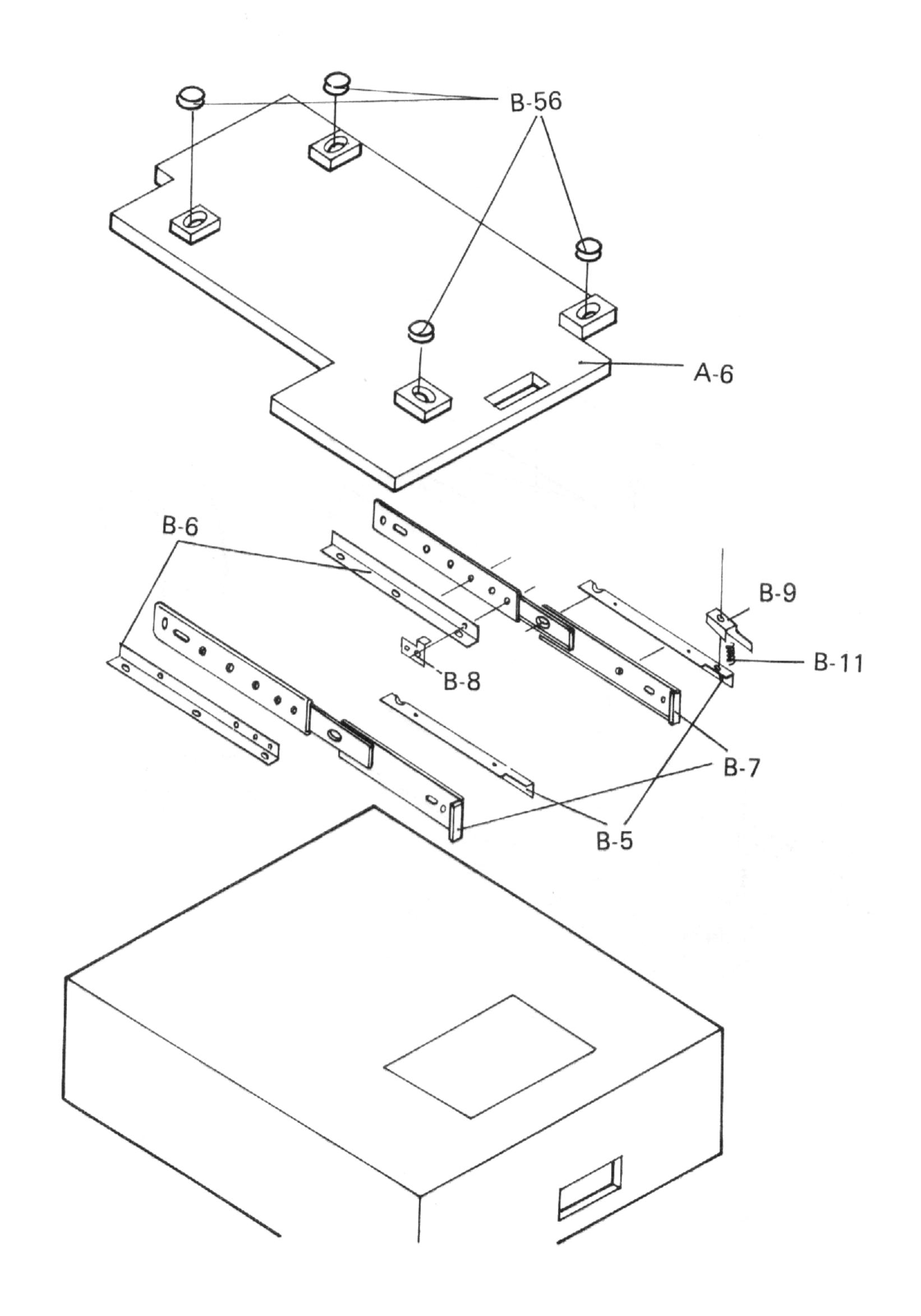
MAIN PC BOARD ASS'Y



MAIN PC BOARD ASS'Y

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
A-4	PC BOARD BASE	8B00051	1
B-40 B-49 B-50 B-51 B-52 B-53	HEAT SINK JOINT HOLDER (A) JOINT HOLDER (B) TRANS PLATE TRANS HOLDER (R) TRANS HOLDER (L)	8R00042 8S00042 8R00080 8R00062 8R00063	1 1 1 1 1 1
D1-6 D1-7 D1-17 D1-18 D1-19 D1-29 D1-33	AMP PC BOARD ASS'Y MAIN PC BOARD ASS'Y TRANSFORMER FOR CRT TRANSFORMER FOR SW. REGULATER TRANSFORMER FOR AMP. LAMP. SW. REGULATOR ASS'Y POWER SUPPLY PC BOARD ASS'Y	1810508 1810505 115E220 115E236 115E219 1810506 1613204A	1 1 1 1 1 1 1 1
D2-29 D2-30	MAIN PC BOARD ASS'Y PCB SUPPORT	1790393 8N00007	4 8
LB-17 LB-20 LB-27 LB-28 LB-29 LB-30 LB-30 LB-60 LB-61 LB-62 LB-89 LB-103	SCREW, M3 x 70 SCREW, M6 x 16 SCREW, M4 x 10 SCREW, M4 x 10 SCREW, M4 x 10 SCREW, M3 x 10	SPM3370 CPM3620 FPM3410 FPM3410 FPM3310 DLM3310 DLM3310 DLM3310 SVM3V16 WDU3064	4 4 2 2 4 4 9 8 4 4 4 1

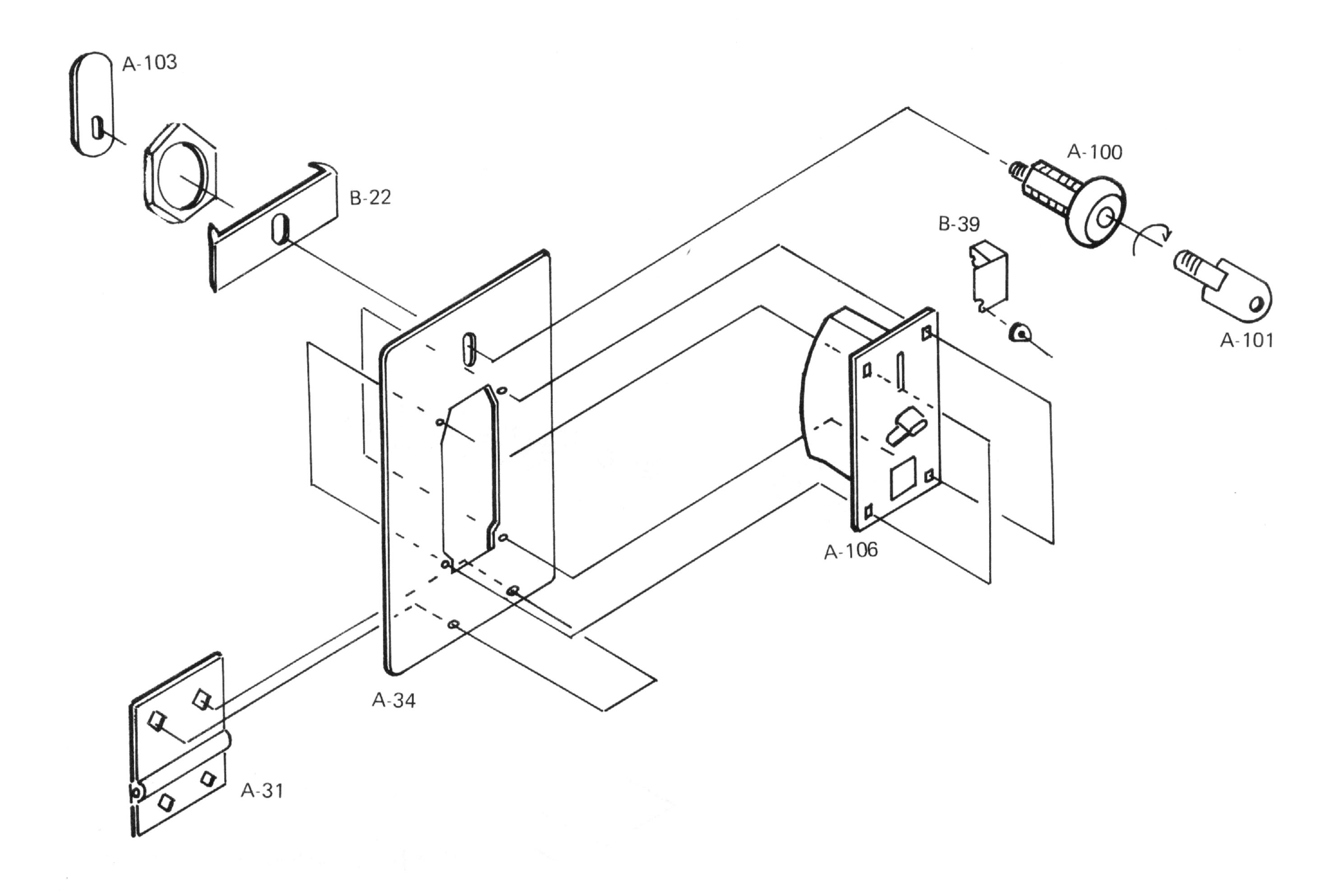
LASER DISC PLAYER BOARD ASS'Y



LASER DISC PLAYER BOARD

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
A-6	LASER DISC PLAYER BOARD	8B00053	1
B-5 B-6 B-7 B-8 B-9 B-10 B-11 B-56	SLIDE RAIL RAIL HOLDER PLAYER BOARD HOLDER STOPPER STOPPER HANDLE STOPPER SHAFT STOPPER SPRING LASER DISC PLAYER CUSHION	8A00021 8S00048 8S00050 8S00051 8U00011 8V00003 8P00018	1 x 2 1 x 2 1 x 2 1 1 1 1
LB-11 LB-12 LB-23 LB-47 LB-48	SCREW, M4 x 6 SCREW, M4 x 6 SCREW, M4 x 20 SCREW, M3 x 6 SCREW, M3 x 6	SPM3406 SPM3420 FPM3306 CPM3306	2 x 2 2 x 2 4 2 1

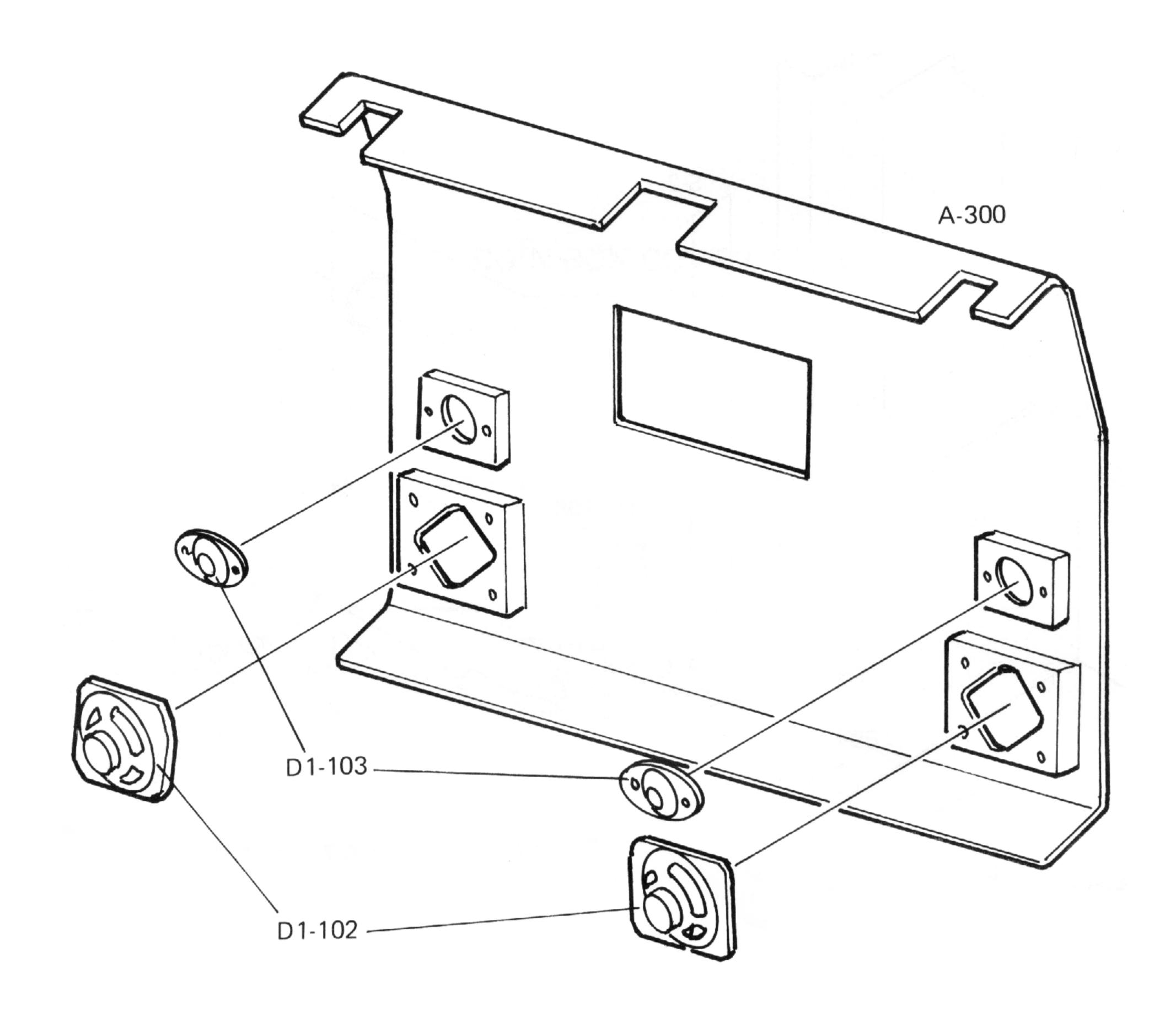
COIN SELECTOR ASS'Y



COIN SELECTOR ASS'Y

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
A-31 A-34 A-100 A-101 A-103	HINGE COIN SELECTOR HOLDER LOCK KEY LEVER NO. 1	8G00026 8G00019 8A00011 8A00013 8S00024	1 1 1 1
A-106 B-22	COIN SELECTOR ASS'Y SPACER	730A/B 8S00060	1
B-39 LA-14 LA-87 LA-117	SWITCH COVER SCREW, M4 x 15 SPRING WASHER, M14 NUT, M4	8A00017 SRCO415 WSM4081 NHM3040	2 2 2

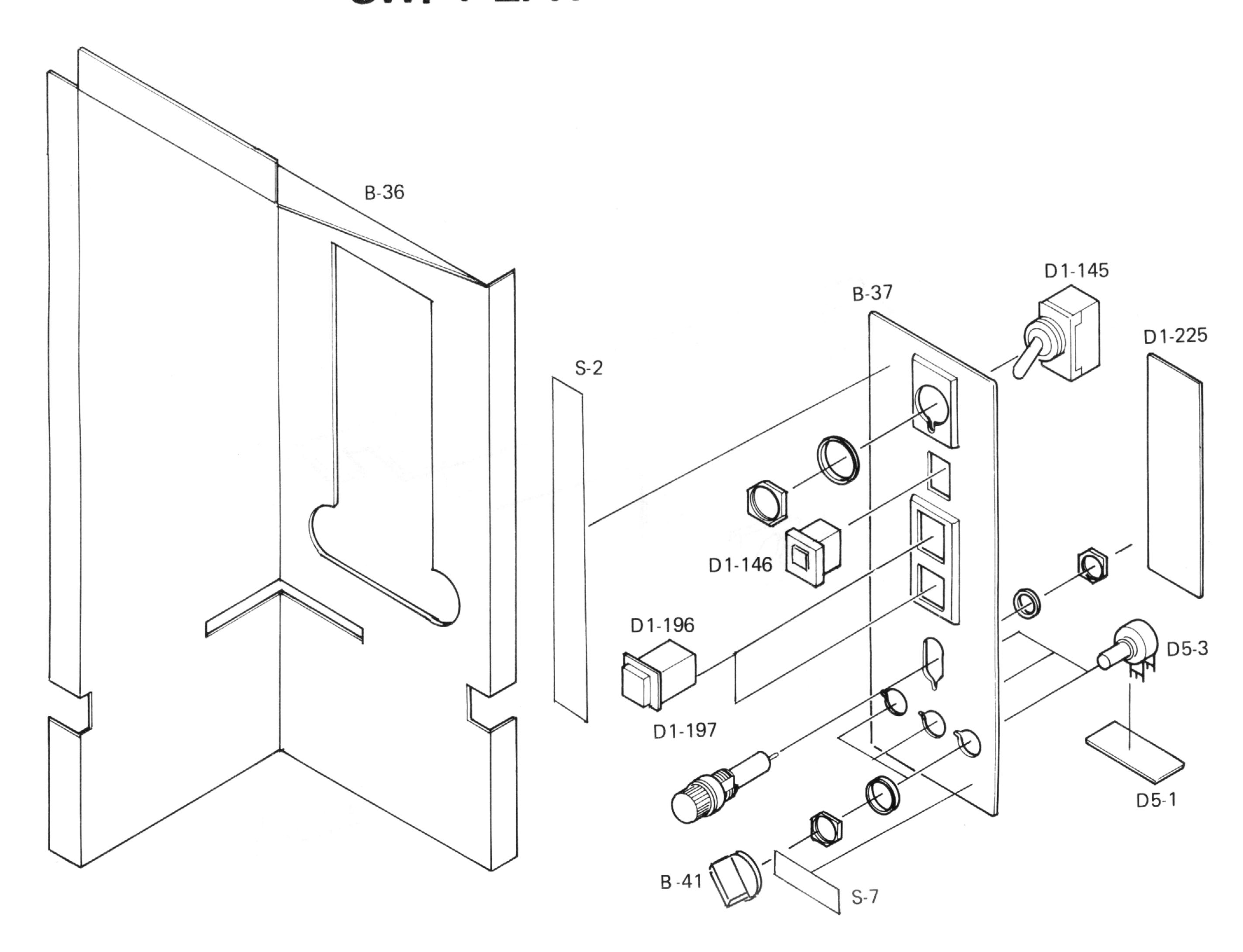
DASH BOARD ASS'Y



DASH BOARD ASS'Y

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
A-300	DASH BOARD	8G00016	1
D1-102	SPEAKER (WOOFER)	1520410	2
D1-103	SPEAKER (TWEETER)	1520366	
LB-25	SCREW, M4 x 12	FPM3412	8
LB-41	SCREW, M3 x 6	CPM3306	

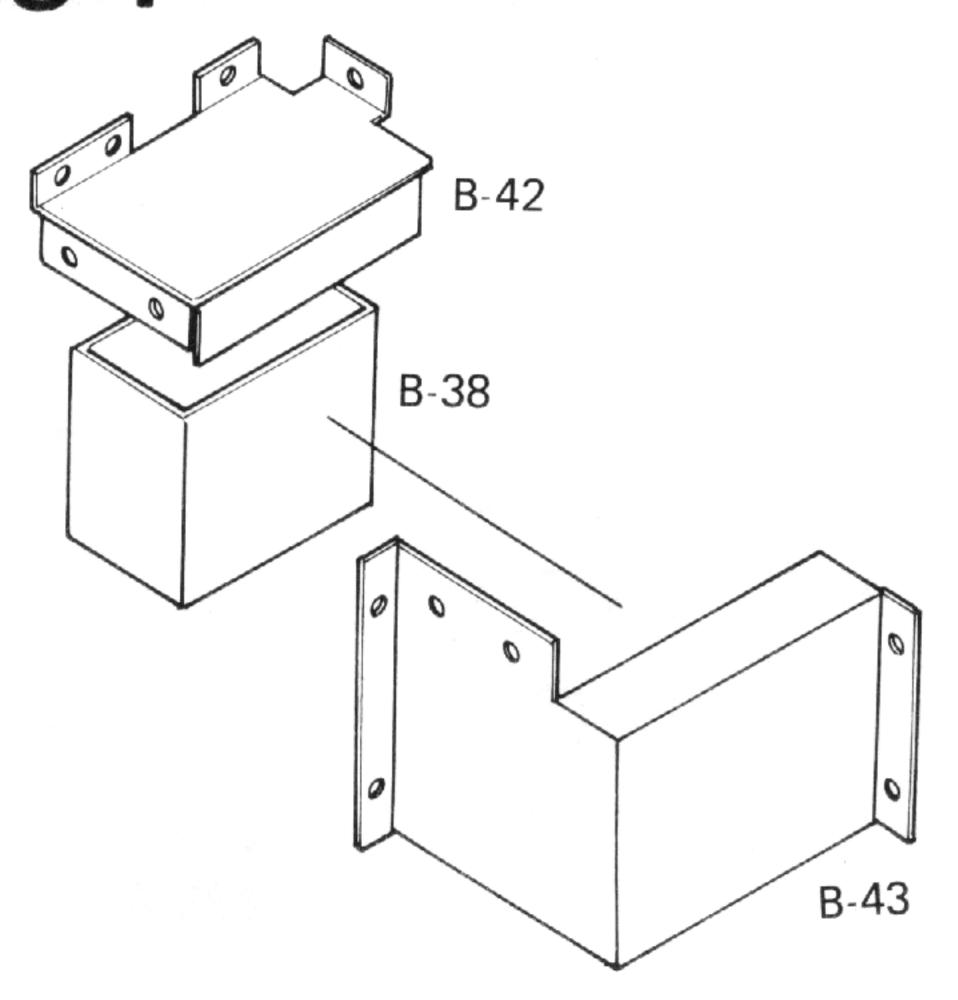
SW. PLATE ASS'Y



SWITCH PLATE ASS'Y

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
B-36	SWITCH BOX	8R00050	1
B-37	SWITCH PLATE	8G00039	1
B-41	VOLUME KNOB	21NF781	1
D1-145	POWER SW.	1623332	1
D1-146	ERASE SW.	1623338	1
D1-196	SERVICE SW.	1622899	1
D1-197	TEST SW.	1622934	1
D1-225	SWITCH PCB	1613205	1
D5-1	VOLUME PCB	1613163	1
D5-3	VOLUME	5390519	3
LB-46	SCREW, M3 x 8	CPM3308	6
S-2 S-7	CONTROL LABEL	8E00011 8E00017	1

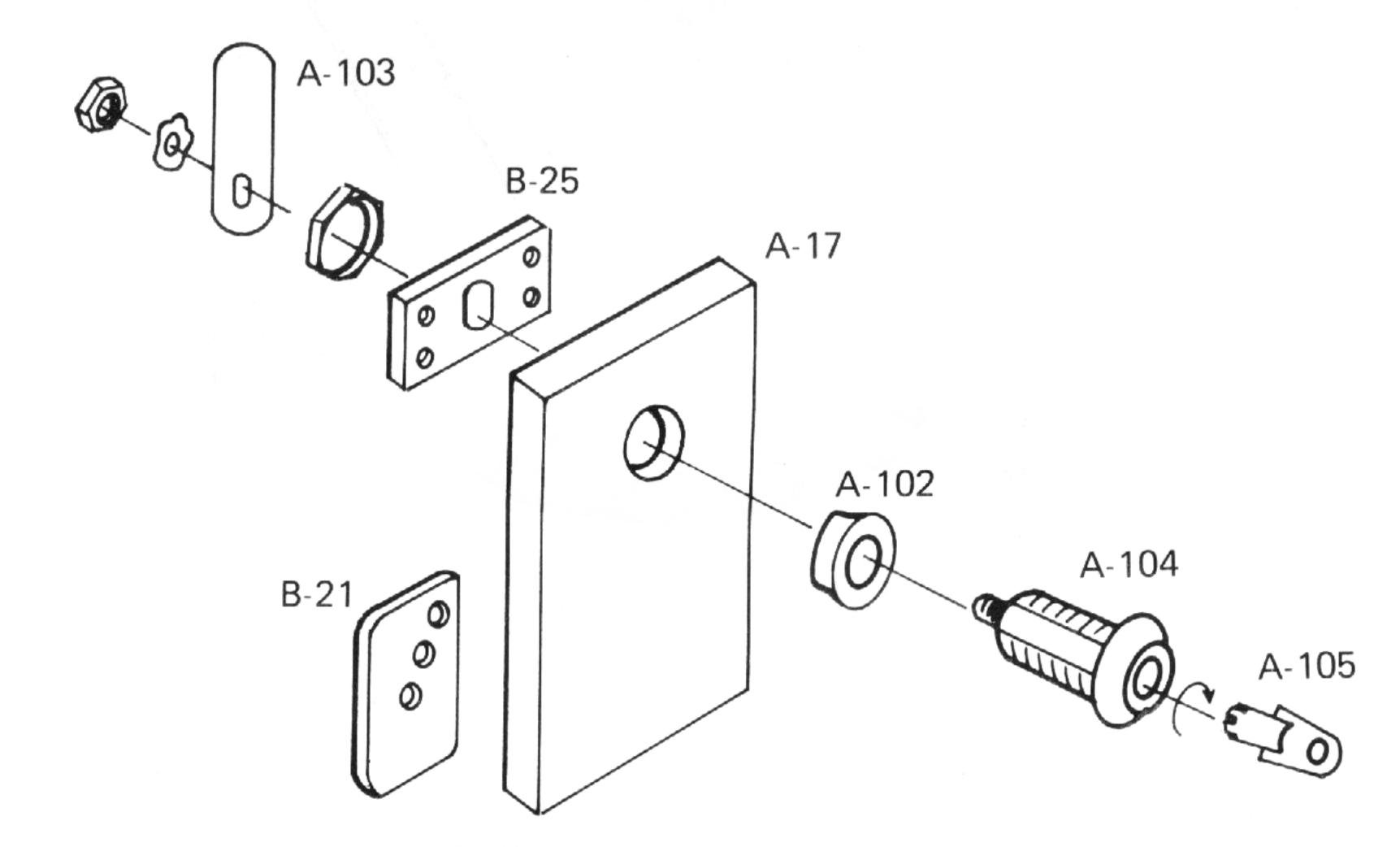
COIN BOX COVER ASS'Y



COIN BOX COVER ASS'Y

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
B-38 B-42 B-43	CASH BOX ASS'Y COIN BOX COVER (1) COIN BOX COVER (2)	8R00079 8G00034 8G00035	1 1 1
LB-67	SCREW, M3 x 6	GBMS306	2

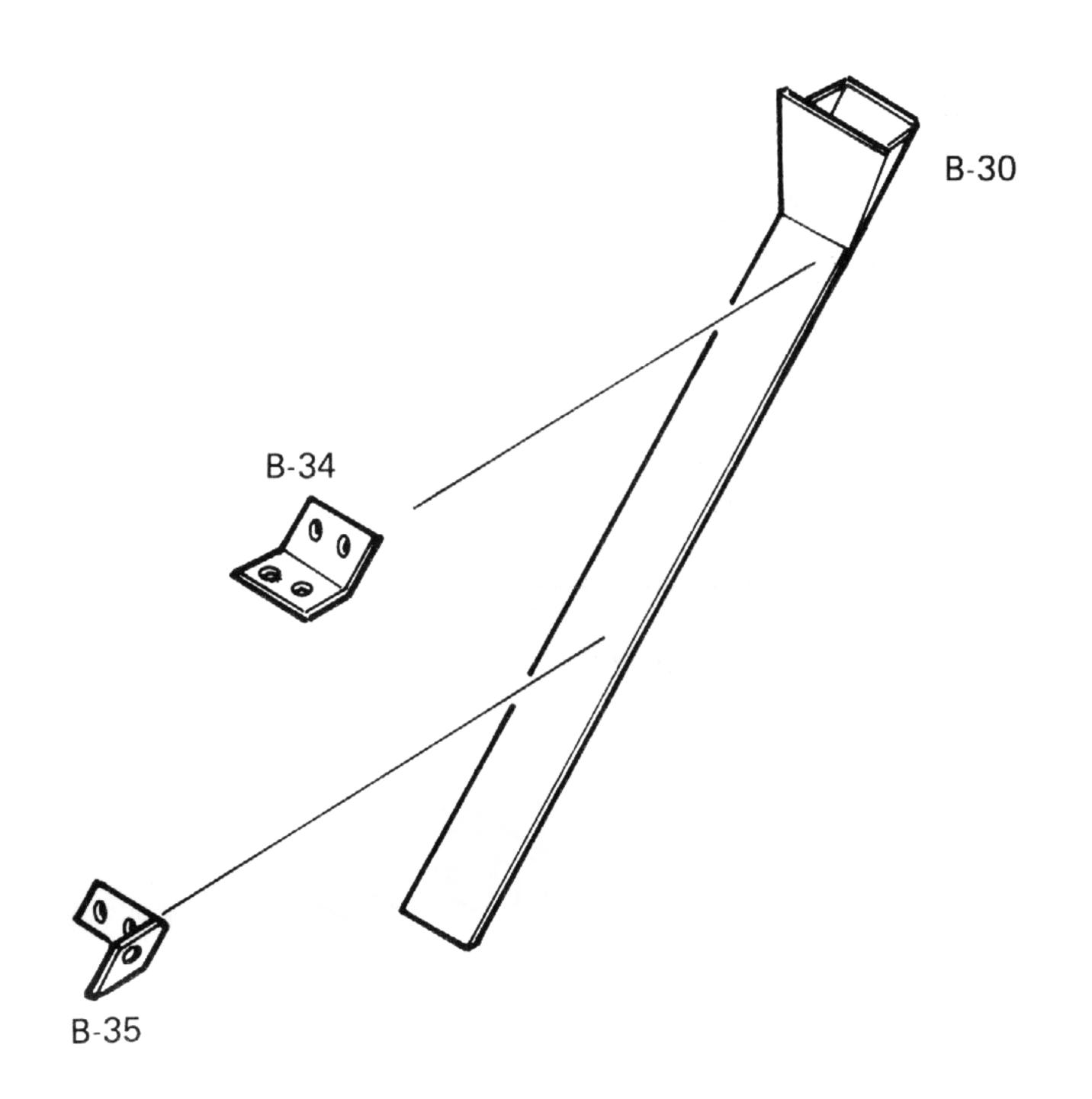
CASH BOX DOOR ASS'Y



CASH BOX DOOR ASS'Y

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
A-17	CASH BOX DOOR	8B00036	1
A-102	TRIM RING	6H00152	1
A-103	LEVER NO. 1	8S00024	1
A-104	LOCK	8A00027	1
A-105	KEY	8A00028	1 1
B-21	DOOR HOLDER	8S00016	1
B-25	LOCK HOLDER	8S00010	1
LB-76	SCREW, ϕ 4.1 x 13	SWU3R-13	2
LB-84	SCREW, $\phi 4.1 \times 13$	SWU3R-13	1
LB-95	NUT, M6	NHM3060	1
LB-100	SPRING WASHER, M6	WSM612W	1
LB-125	SCREW, M6 x 25	SRC0625	1

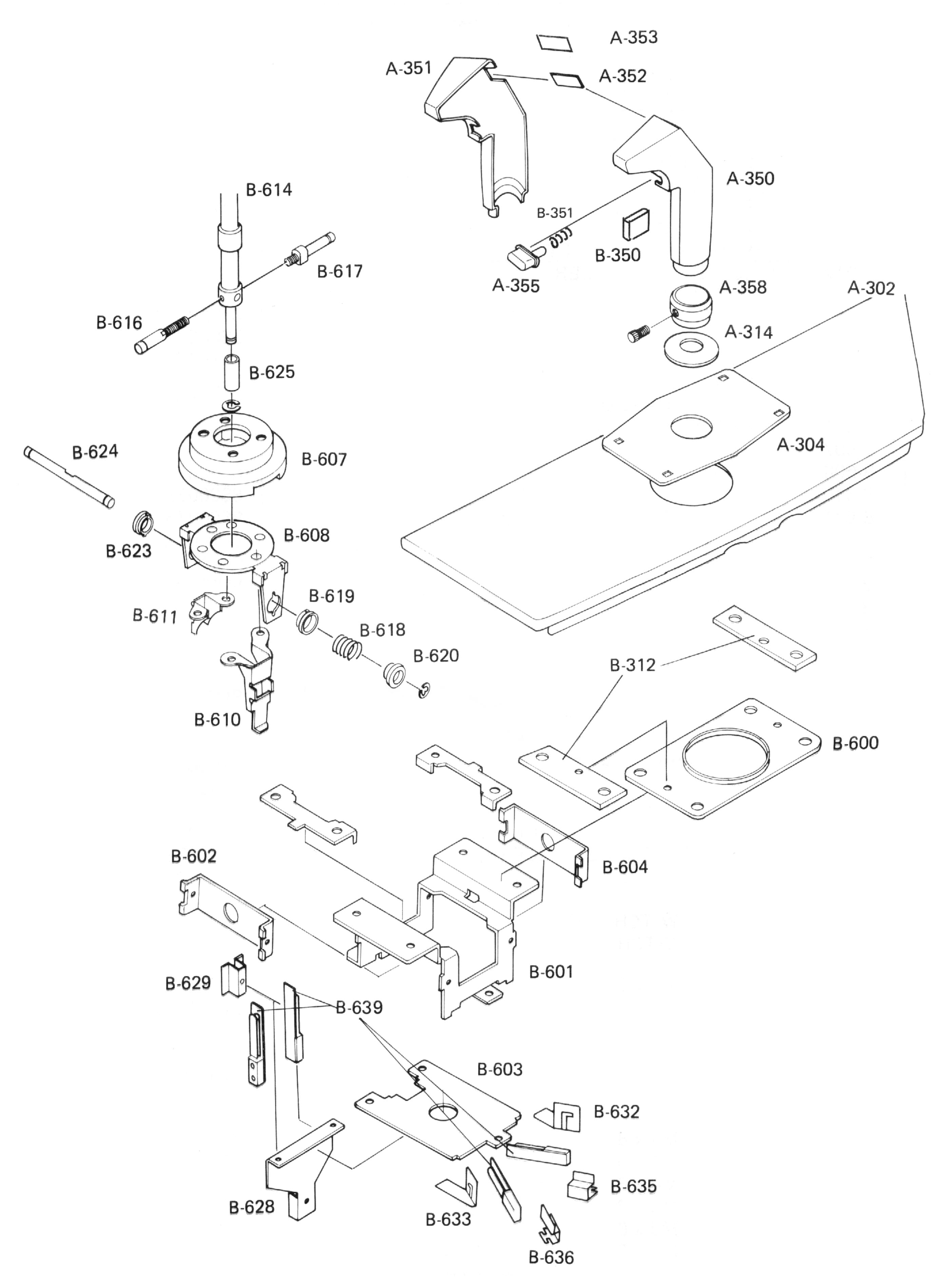
COIN RAIL ASS'Y



COIN RAIL ASS'Y

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
B-30 B-34 B-35	COIN RAIL ASS'Y COIN RAIL HOLDER (1) COIN RAIL HOLDER (2)	8A00014 8S00036 8S00037	1 1 1
LB-66	SCREW, M3 x 6	GBMS306	4

JOY STICK ASS'Y



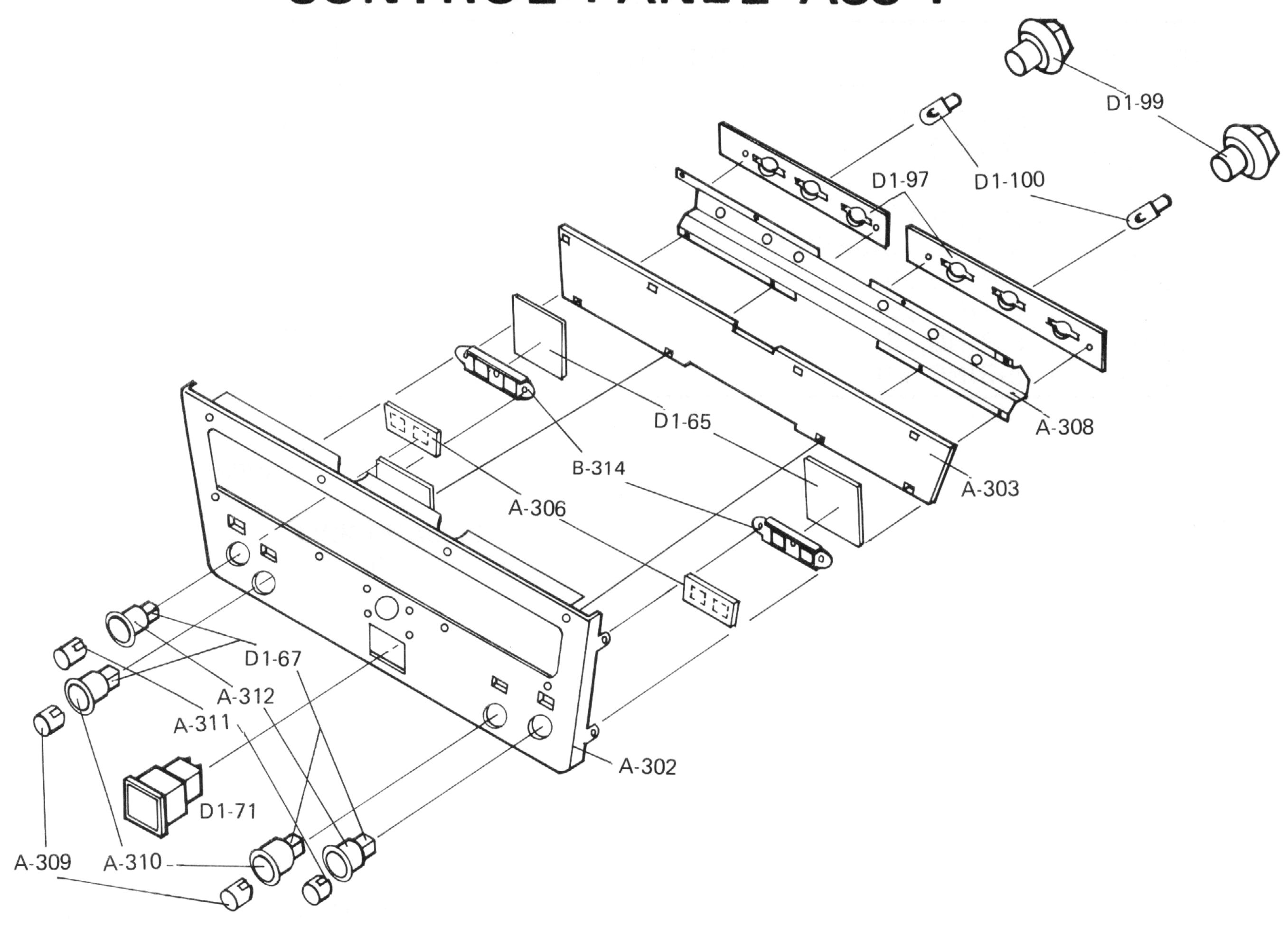
JOY STICK ASS'Y

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
A-302	CONTROL PANEL	8G00033	1
A-304	TRIM PLATE	8H00025	1
A-314	SHIFT COVER	8P00024	1
A-350	SHIFT KNOB (L)	8M00003	1
A-351	SHIFT KNOB (R)	8M00002	1
A-352	NAME PLATE	8N00020	1
A-353	FUNAI LABEL	8E00075	1
A-355	FIRE KNOB	8N00021	
A-358	SHIFT KNOB SOCKET	8J00004	1
B-312	JOY STICK SPLACER	8S00080	2
B-350	CUSHION	8N00022	1
B-351	SPRING	8V00006	1
B-600	BASE	8S00030	1
B-601	JOY STICK CHASSIS	8R00081	1
B-602	SUB CHASSIS	8S00079	1
B-603	SWITCH BASE U	8S00075	1
B-604	GUIDE	8N00013	2
B-607	SHAFT HOLDER	8N00015	1
B-608	SHAFT BRACKET U	8S00074	1
B-610	SWITCH ARM U	8S00073	1
B-611	BRACKET U	8S00078	1
B-614	SHAFT U	8U00015	1
B-616	SPRING SHAFT U	8U00018	1
B-617	SPRING STUD U	8U00016	1
B-618	SHAFT SPRING	8V00002	2
B-619	SPRING BUSH LU	8N00019	2
B-620	SPRING BUSH LU	8N00018	2
B-623	BUSH, φ8	8N00017	2
B-624	SHAFT PIN	8U00014	1
B-625	SHAFT SLEEVE	8N00016	1
B-628	LEAF SWITCH STAND	8S00077	1
B-629	LEAF SWITCH BASE	8S00076	1
B-632	LEAF SWITCH HOLDER (L)	8S00069	1
B-633	LEAF SWITCH HOLDER (R)	8S00070	1
B-635	LEAF SWITCH SET PIECE (L)	8S00071	1
B-636	LEAF SWITCH SET PIECE (R)	8S00072	1
B-639	SWITCH PLATE	8N00014	4
			-
D1-66	LIMIT SWITCH	1624090	1
D1-68	LEAF SWITCH	1624108	4
LA-301	SCREW, M4 x 7	SZKA407	2
LA-303	SCREW, M4 x 22	SRCO422	4
LA-315	NUT, M4	NHM3040	4
LA-339	SPRING WASHER, M4	WSM4081	4
LA-343	SCREW, M8 x 16	SKK5816	1
		07140400	
LB-601	SCREW, M4 x 8	SZK6408	4
LB-610	SCREW,M4 x 6	CPM3406	3
LB-611	SCREW, M4 x 6	CPM3406	4
LB-613	SCREW, M3 x 6	CPM3306	2
LB-614	SCREW, M3 x 6	CPM3306	2
LB-618	SCREW, M3 x 6	GDMS306	4

JOY STICK ASS'Y

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
LB-620	SCREW, M3 x 6	GBMS306	2
LB-621	SCREW, M3 x 6	GBMS306	1
LB-622	SCREW, M3 x 6	GBMS306	1
LB-623	SCREW, M3 x 6	GBMS306	1
LB-632	SPRING WASHER, M4	WSM4081	4
LB-639	E-RING, ϕ 6	EEU0060	2
LB-640	E-RING, ϕ 6	EEU0060	1
LB-641	E-RING, φ6	EEU0060	1
LB-642	E-RING, φ9	EEU0090	1

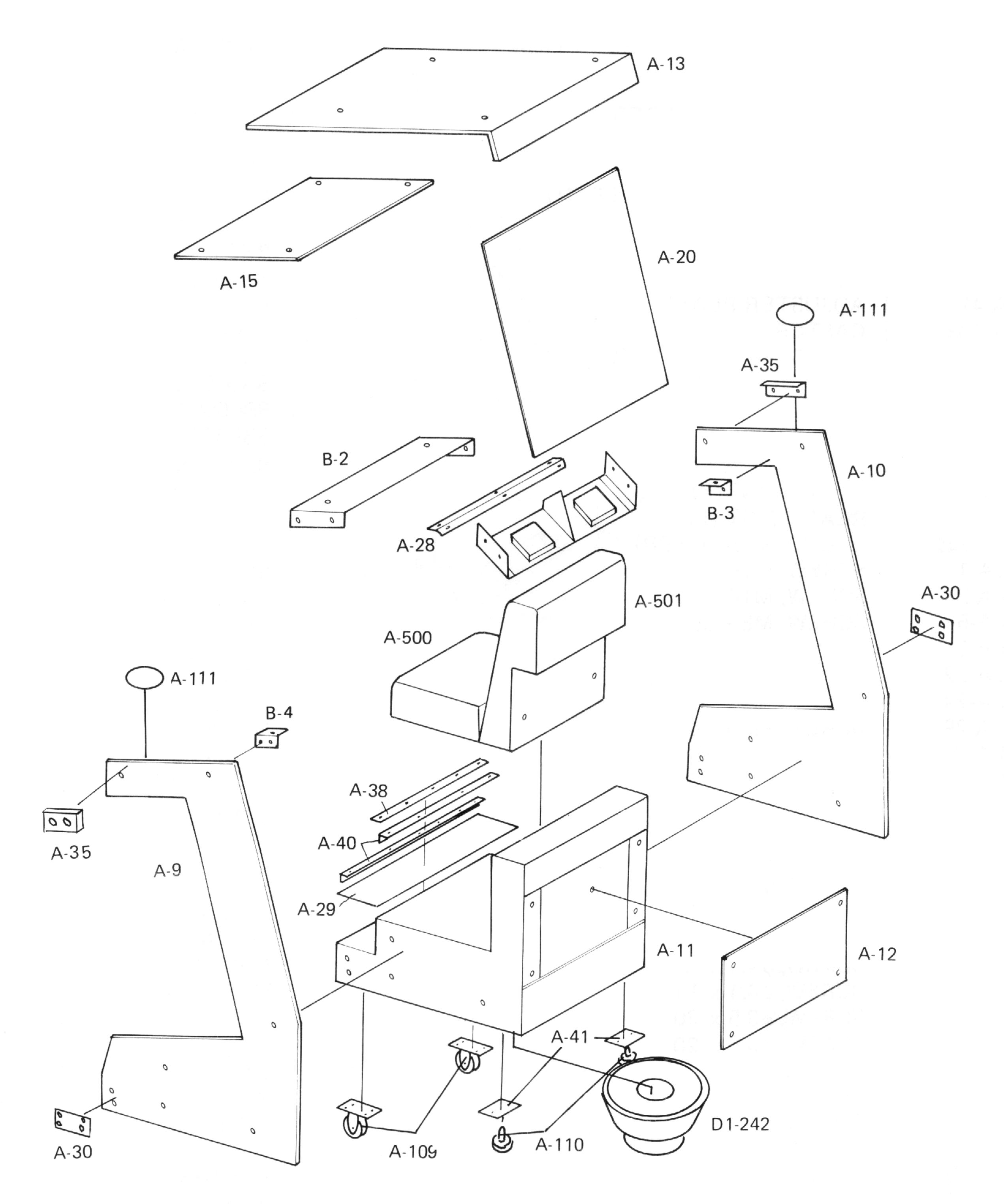
CONTROL PANEL ASS'Y



CONTROL PANEL ASS'Y

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
A-302	CONTROL PANEL	8G00033	1
A-303	CONTROL WINDOW	8E00010	1 1
A-306	LED WINDOW	8D00005	2
A-308	LAMP HOLDER	8R00057	1
A-309	PUSH SWITCH (B)	8D00008	2
A-310	PUSH SWITCH HOLDER (B)	8D00009	2
A-311	PUSH SWITCH (A)	8D00010	2
A-312	PUSH SWITCH HOLDER (A)	8D00011	2
B-314	LED HOLDER	8S00028	2
D1-65	LED PC BOARD	1613162	2
D1-67	PUSH SWITCH	1622935	4
D1-71	START SWITCH	1622904	1
D1-97	LAMP PC BOARD	1613211	1
D1-99	LAMP HOLDER	1790344	6
D1-100	LAMP	1830257	7
LA-302	SCREW, M4 x 15	SRC0415	8
LA-314	NUT, M4	NHM3040	8
LA-338	SPRING WASHER, M4	WSM4081	8
LB-318	SCREW, M3 x 6	GBMS306	4
LB-310 LB-327	SCREW, M3 x 6	GBMS306	6
LD-327	JOILEVY, IVIO X O		

REAR CABINET

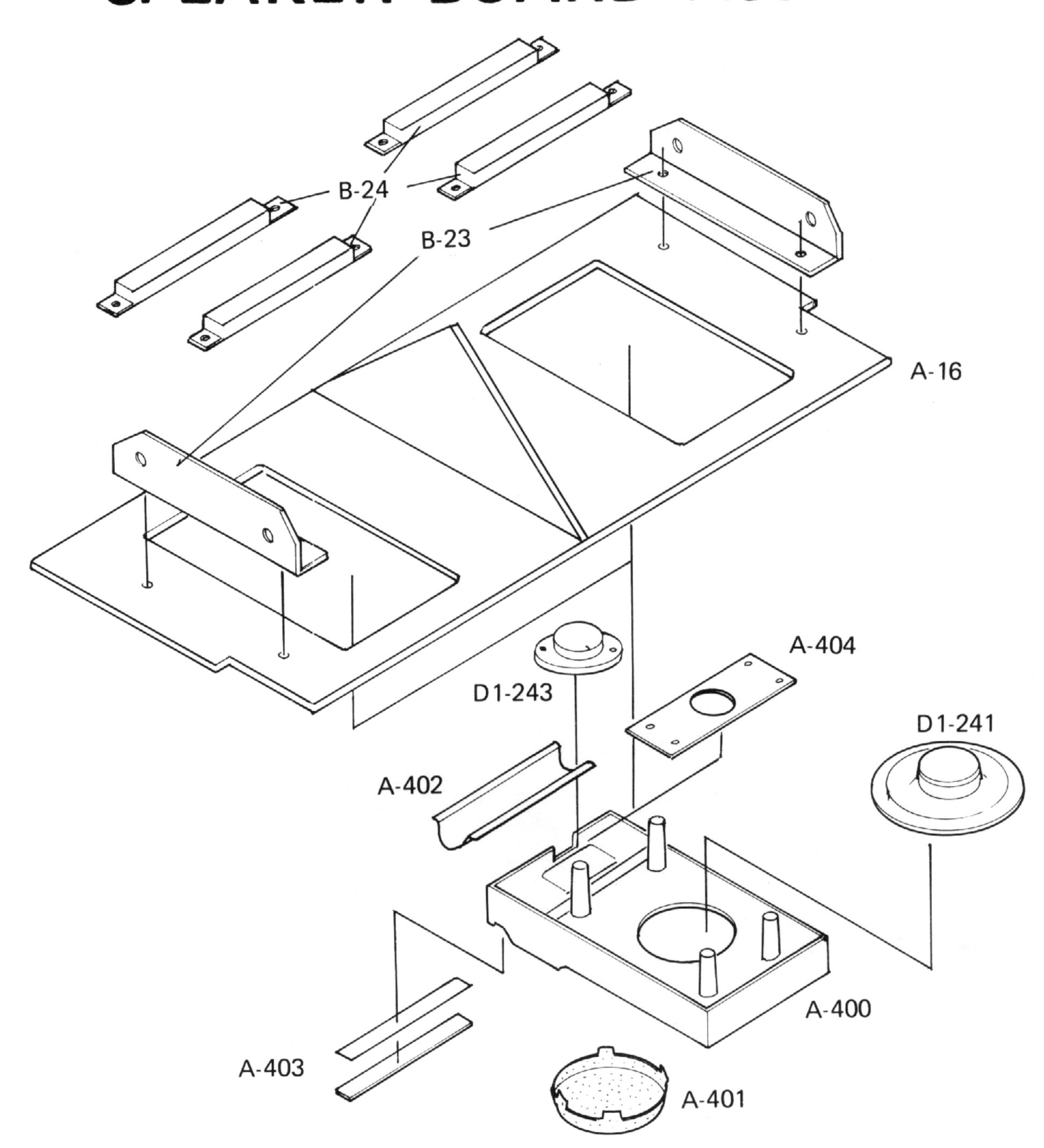


REAR CABINET

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
A-9	L-SIDE BACK	8B00045	1
A-10	R-SIDE BACK	8B00046	1
A-11	SEAT BOX	8B00044	1
A-12	REAR COVER	8B00056	1
A-13	TOP PLATE	8B00054	1
A-15	TOP INNER PLATE (R)	8B00065	1
A-20	REAR WINDOW	8E00025	1

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
A-26	REAR PANEL HOLDER	8P00020	1
A-28	SPEAKER TRIM PLATE	8G00017	1
A-30	CONNECTING BRACKET (BOTTOM)	8G00022	2
A-35	CONNECTING BRACKET (TOP)	8G00024	2
A-37	REAR FLOOR MAT	8E00021	1
A-38	TRIM ANGLE (2)	8H00012	2
A-40	FLOOR MAT HOLDER	8G00030	1
A-41	ADJUSTER PLATE	8S00054	2
A-109	CASTER	KHN-50HR	2
A-110	ADJUSTER	AJ-36	2
A-111	ROPE HUNGER	8A00022	2
A-500	SEAT (A)	8B00061	1
A-501	SEAT (B)	8B00062	1
B-2	TOP JOINT (B)	8R-00070	1
B-3	REAR JOINT(R)	8R-00071	1
B-4	REAR JOINT (L)	8R0078	1
D1-242	SPEAKER (WOOFER)	1520433	1
LA-1	SCREW, M10 x 50	SRCO x 10	4
LA-2	SCREW, M10 x 50	SRCO x 10	4
LA-5	SCREW, M8 x 35	SRCO835	1
LA-6	SCREW, M8 x 35	SRCO835	1
LA-22	SCREW, M6 x 25	CPM3625	8
LA-24	SCREW, M6 x 25	CPM3625	4
LA-29	SCREW, M6 x 25	STU3625	4
LA-30	SCREW, M6 x 35	STU3635	4
LA-34	SCREW, M6 \times 30	FPM3630	4
LA-38	SCREW, M6 x 40	STU3640	1
LA-40	SCREW, M6 x 35	STK3635	4
LA-41	SCREW, M6 x 45	STM3635	2
LA-46	S BOLT, M10 x 50	SZK6X50	4
LA-55	SCREW, $\phi 4.1 \times 13$	SWU3R13	1
LA-56	SCREW, φ4.1 x 13	SWU3R13	1
LA-60	SCREW, ϕ 4.1 x 13	SWU3R13	1
LA-62	SCREW, $\phi 4.1 \times 13$	SWK3R13	6
LA-67	SCREW, φ3.5 x 20	SVU3T20	4
LA-68	SCREW, \$\phi 3.5 x 20	SVU3T20	8
LA-74	SPRING WASHER, M10	WSMX19Z	4
LA-75	SPRING WASHER, M10	WSMX19Z	4
LA-76	SPRING WASHER, M10	WSMX19Z	4
LA-79	SPRING WASHER, M8	WSM815A	1
LA-80	SPRING WASHER, M8	WSM815A]
LA-91	WASHER, M10	WPMX25Y	4
LA-92	WASHER, M10	WPMX25Y	4
LA-95	WASHED MO	WPM815A	
LA-96	WASHER, M8	WPM815A	1
LA-105	NUT, M10	NHM3100	4
LA-106	NUT, M10	NHM3100	4
LA-109	NUT, M8	NHM3080	1
LA-110	NUT, M8	NHM3080	1
LB-74	SCREW, φ4.1 x 13	SWU3R13	4
LB-94	NUT, M4	NHM3040	4

SPEAKER BOARD ASS'Y



SPEAKER BOARD ASS'Y

REF. NO.	DESCRIPTION	MFG. NO.	QTY.
A-16	BACK SPEAKER PLATE	8B00043	1
A-400	SPEAKER FRONT	21C1772	1 x 2
A-401	SPEAKER GRILL	23M1431	1 x 2
A-402	TWEETER GRILL	23M1453	1 x 2
A-403	TRIM PLATE (C)	23M1483	1 x 2
A-404	TWEETER COVER	24M0102	1 x 2
D1-241	SPEAKER (WOOFER)	1520410	1 x 2
D1-243	SPEAKER (TWEETER)	1520366	1 x 2
B-23	SPEAKER HOLDER	8R00017	2
B-24	SPEAKER BOX HOLDER	8R00016	4
LA-400	SCREW, M3 x 8	GLMP308	2 x 2
LA-403	SCREW, M4 x 10	GPM1410	4 x 2
LA-430	CS RING, φ3	WTK3083	4 x 2
1.5.50	CCD EW 12 E 11 10	SWU3T10	8
LB-53	SCREW, \$\phi 3.5 x 10	SWU3T10	4
LB-54	SCREW, $\phi 3.5 \times 10$	GPMP416	8
LB-64	SCREW, M4 x 16	GI WII TIO	

