



LUMINA

Bisty

Bisty

The Sh



ining Battle

果敢に戦い続ける挑戦者たちを、
未知なるフィールドが手招きしている。
それは時空を越えて繰り広げられる壮大なバトル。
いま、決戦のカウントダウンが始まった。
闇を切り裂く銀色の軌跡が、頭上をかすめる。
轟くことはない。五感を研ぎ澄まし、狙いを定める。
すると突然、虹色の流星が無数に降りそそいだ。
目の眩むような輝きが、体中のエナジーを増殖させる。
まるで己の勝利を予言するかのように・・・。
さあ、いざ戦え！もう恐れるものは何もない。



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Ver1.2

ILLUMINATION MACHINE "LUMINA"

Introduction

We would like to thank you for purchasing our companies products.

This manual provides installation and operation instructions to allow you to use this product safely.

Please be sure to read the contents of this manual before operating the machine.

Also please keep this manual safe, to use for reference in case of future requirements.

Notes on ordering replacement parts

For exchange parts, after replacement, please return the defective part to the manufacturers authorised service agent.

For replacement parts, please dispose of the defective part according to local waste disposal regulations.

When replacement procedure is not clear, please contact the manufacturers authorised service agent.

Safety Notes



DO NOT do. These actions are prohibited.



DO NOT touch.



DO NOT touch with wet hands or allow to get wet.



You MUST comply with the contents of the safety instructions.



You MUST remove the power plug from the electrical outlet.



Caution! please pay attention to the contents of the safety notes.



Caution! There is a risk of fire.



Caution High Temperature!
There is a risk of burns.


















Caution! There is a risk of electric shock.














Caution Sharp Edges!
There is a risk of injury.



Caution! Risk of injury due to touching.

 Warning Please regard safety instructions. There is the risk of death or serious injury if they are ignored.		
<p>Please do not modify machine. Modifications of game machines are prohibited by law. It also may cause a risk of fire and electric shock.</p>		 
<p>If there is visible smoke or a burning smell coming from the machine, immediately remove the power plug from the electrical outlet. After ensuring that the smoke or burning has ceased, please contact manufacturers authorised service agent.</p>		
<p>Please ensure the supply transformer is adequately rated to supply the power requirements as indicated by the label on the main control board casing. Exceeding the rated capacity of the transformer will lead to an increased risk of fire.</p>		
<p>Please do not remove the power plug by pulling on the cord. It may cause damage to the conductors and insulation and lead to a risk of fire and electric shock. Always remove by pulling the power plug.</p>		 
<p>Always ensure connections to the frame external output terminals comply with the maximum ratings (see page 5 for details). There is a risk of fire if ratings are exceeded.</p>		
<p>When changing fuses, always use a replacement fuse of the correct rating (see p27). If an incorrect fuse is used, the fuse may not blow under fault conditions and lead to a high risk of fire.</p>		

 Warning Please regard safety instructions. There is the risk of injury if they are ignored.		
<p>To avoid risk of electric shock, always turn off power switch and remove power plug before working on machine.</p>		
<p>To avoid risk of electric shock, please do not operate the machine with wet hands, or install in a place where it is likely to get wet.</p>		
<p>To avoid risk of burns, please make sure the the ashtray is locked in position before use.</p>		
<p>To avoid risk of burns, please do not touch the solenoids, motors or lamps while they are still hot.</p>		
<p>Please ensure ground wire is correctly connected to prevent build up of static electricity in game balls.</p>		
<p>To avoid risk of injury, please take care around sharp edges, such as edges of metal rails and nails.</p>		
<p>To avoid risk of injury, please take care when opening or closing front glass and upper tray doors.</p>		

Full Colour Illumination

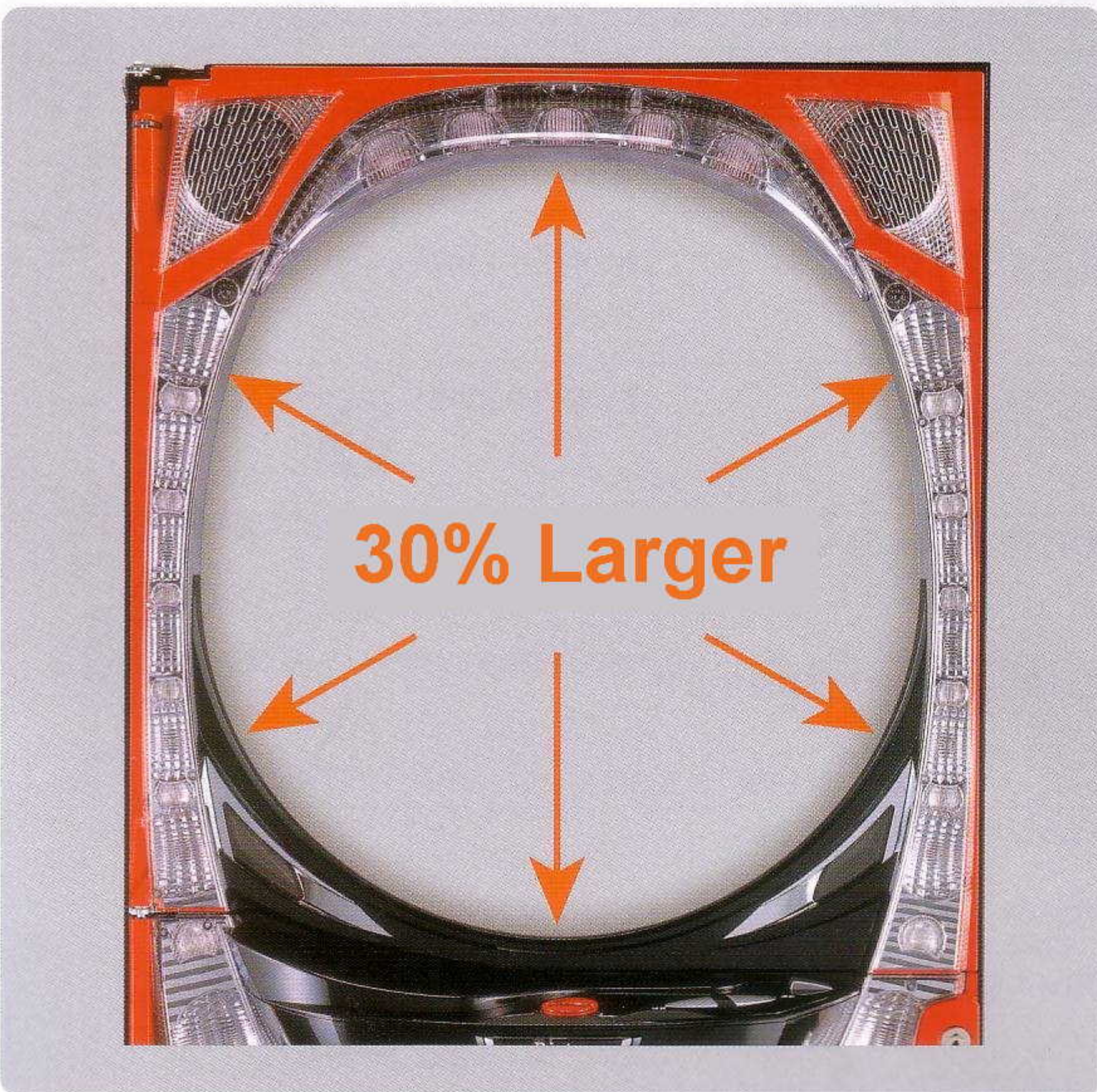


The newly adopted high brightness LED lamps give beautifully vivid full colour illumination.

With advanced microprocessor control the frame lighting effects can be seamlessly integrated into each game's visual performance.

The effect is multiplied during notifications and fever rounds when the frame illumination, combined with the high quality sound, provides a truly uplifting performance.

Large Elliptic Front Glass

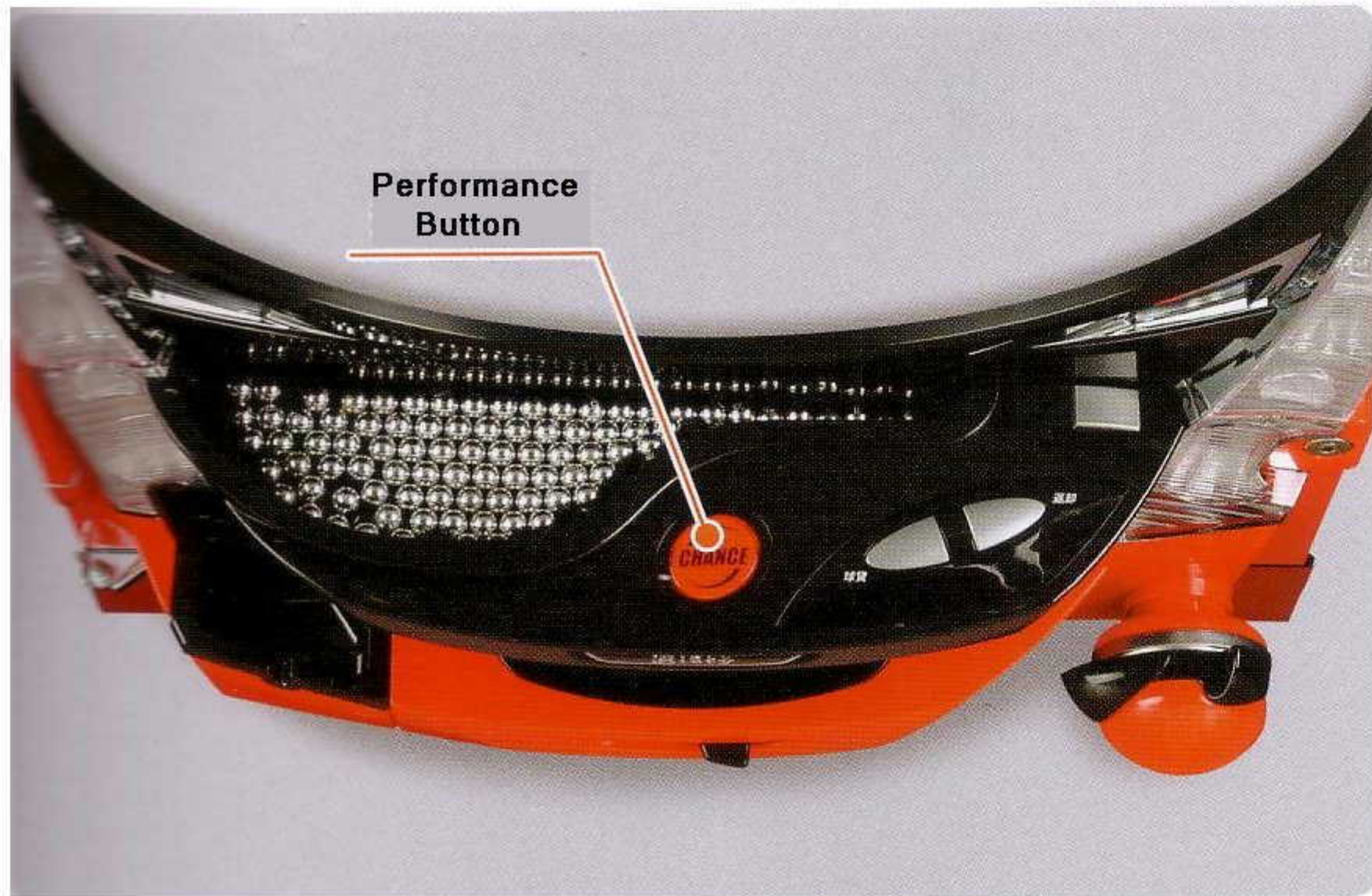


Using the latest anti-scratch technology the larger elliptic front glass will always be clear.

Twin panes of glass help cut down on noise.

The 30% larger glass area allows larger playing areas. This helps attract the eye of the player and provides more dynamic ball flow to increase the enjoyment of the game.

Performance Button



The performance button is now conveniently located in the centre of the upper front tray.

This makes it easier to operate and increases the excitement during the game.

(Operation differs for each game.)

Framework Specifications

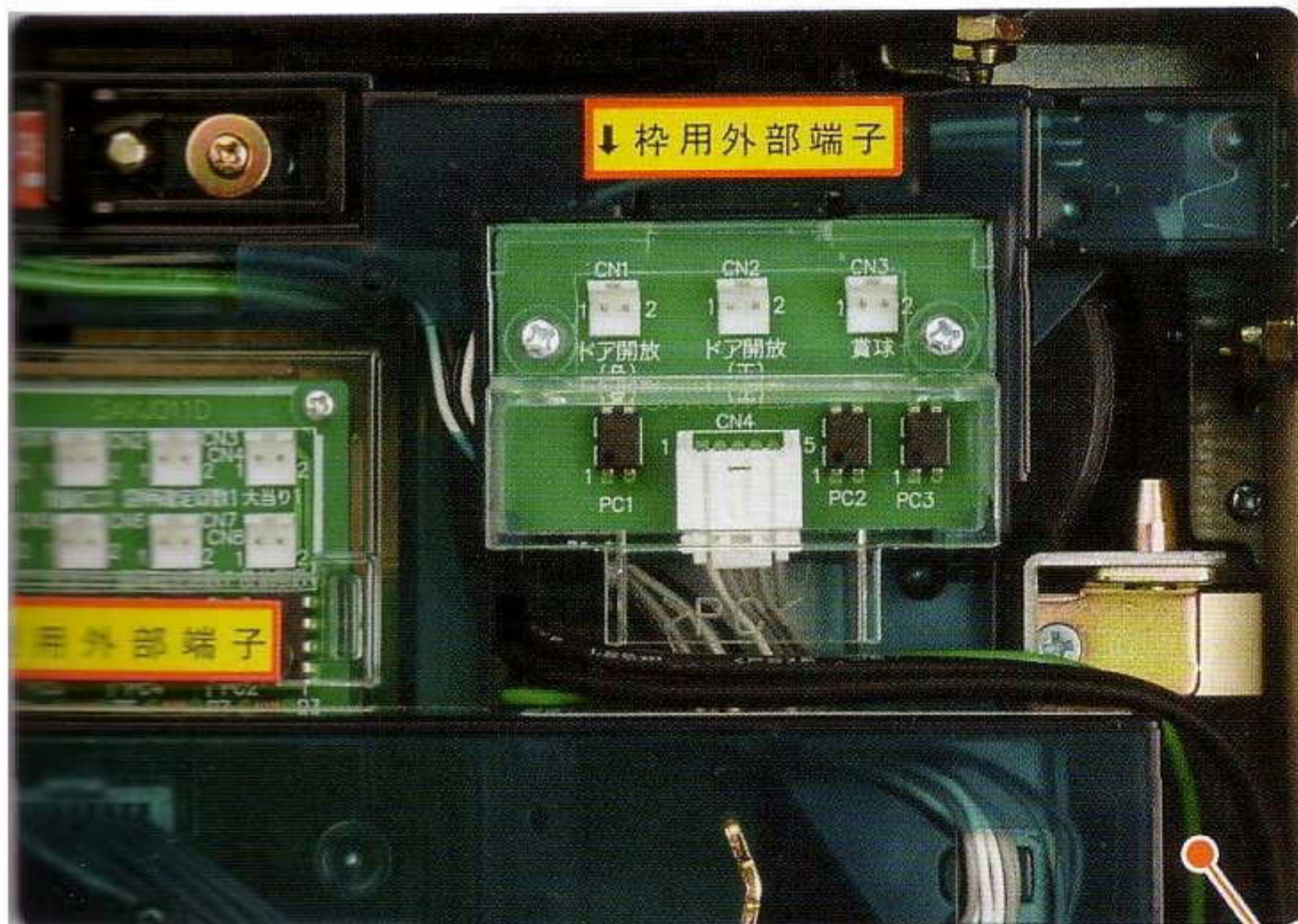
Framework Dimensions
 Height : 808mm Width : 520mm

Glass Dimensions
 Height : 470mm Width : 440mm
 Thickness : 3mm & 4mm

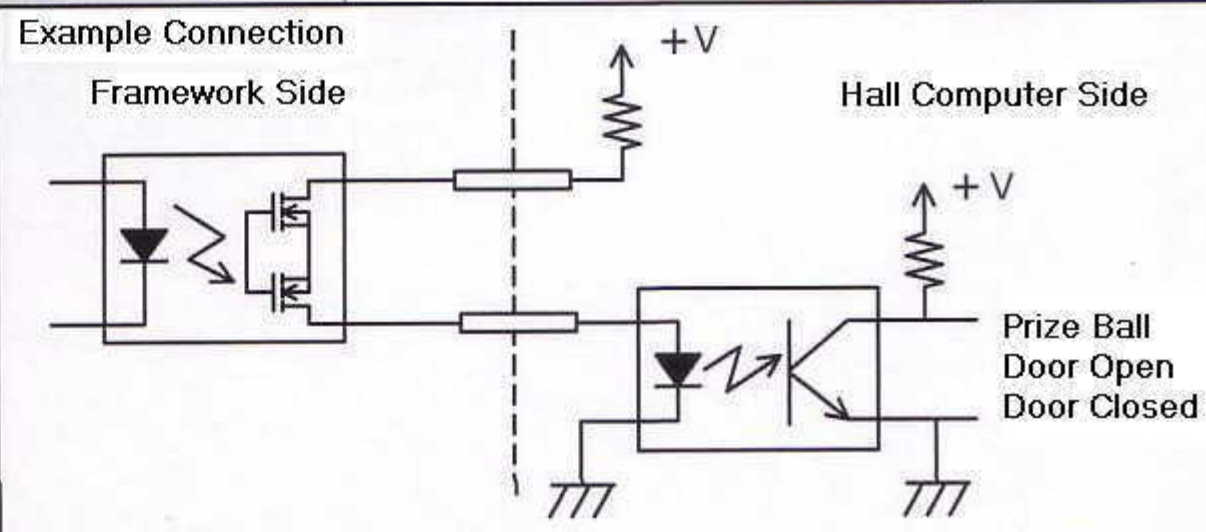
Rated Voltage : AC24V+/-5%

Power Consumption : Differs for each game.
 (Please check label on cell CPU board.)

Frame External Output Terminals



Output Name	Contents	Max. Rating
CN1: Door Open (OFF)	ON when front door(s) are closed (non-polarised contacts)	DC24V 0.1A
CN2: Door Open (ON)	ON when front door(s) are open (non-polarised contacts)	DC24V 0.1A
CN3: Prize Ball	1 pulse for every 10 prize balls. (non-polarised contacts)	DC24V 0.1A



Ground Line

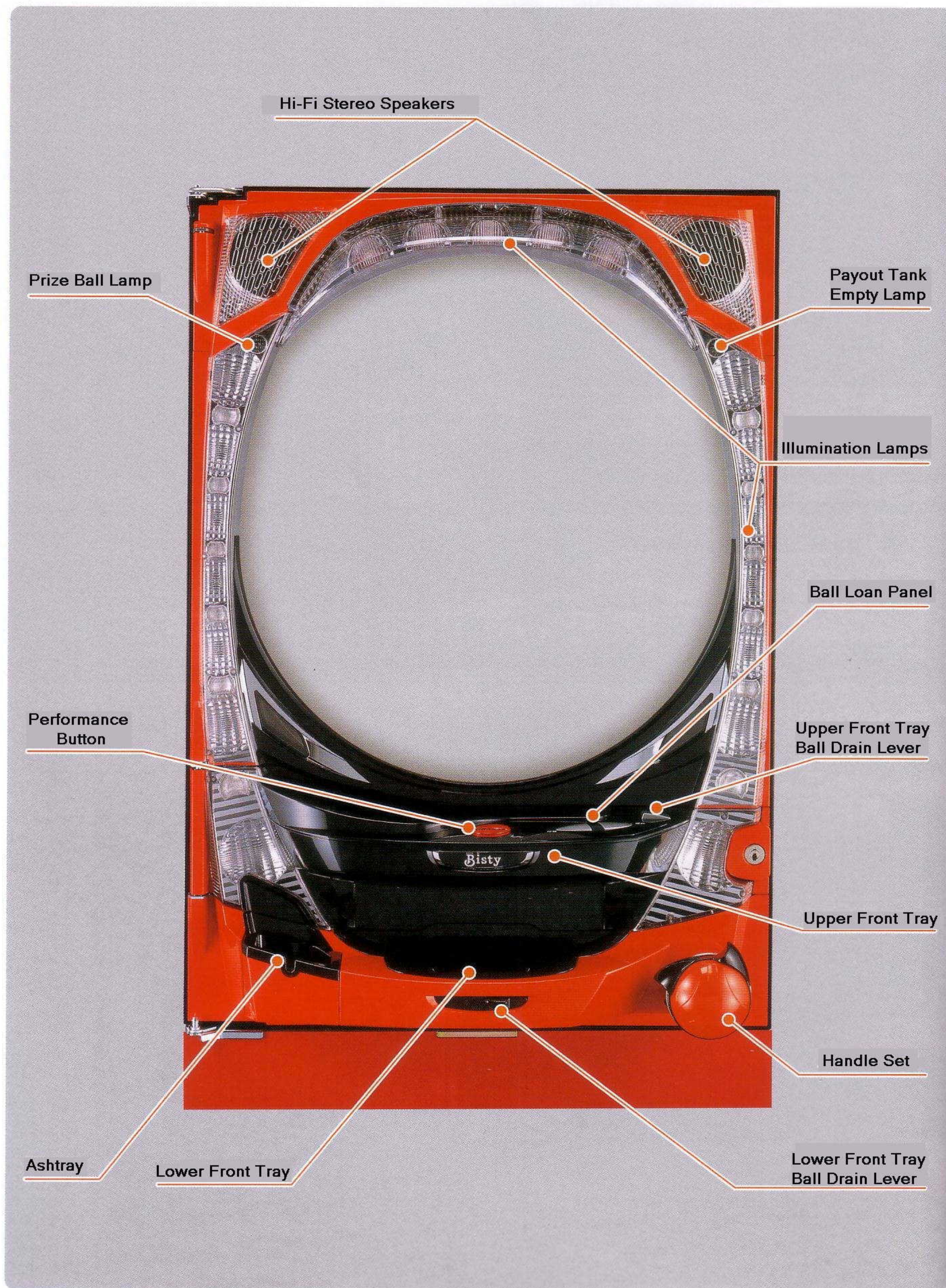


Ground Connection

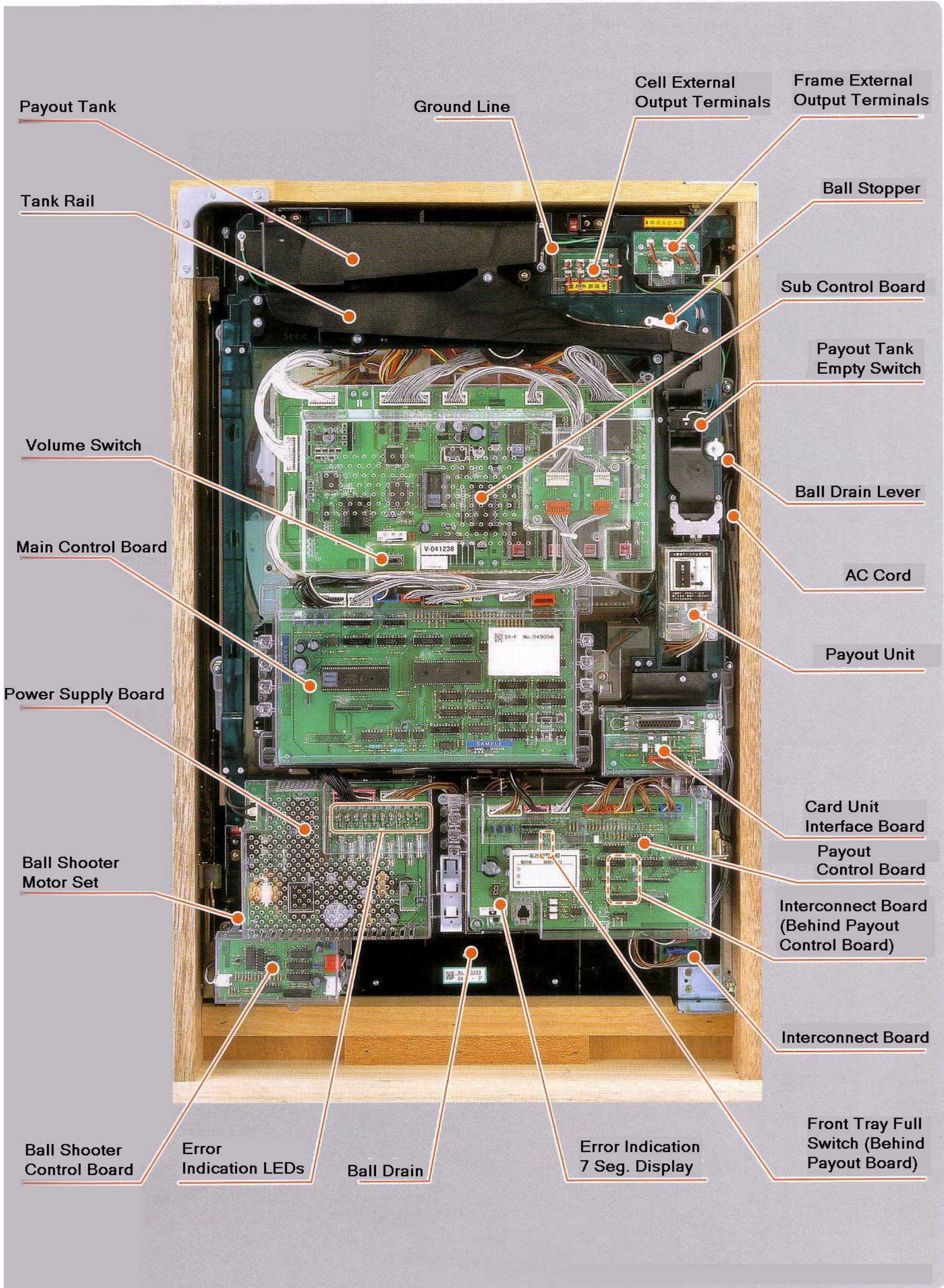
Please ensure that ground line is securely connected to a suitable earthing point. Please also connect the ground connection of card unit separately. If the ground connection is missing or faulty, the game may not function correctly and there is a risk of electric shock.

Front of Machine

IDENTIFICATION



Back of Machine



IDENTIFICATION

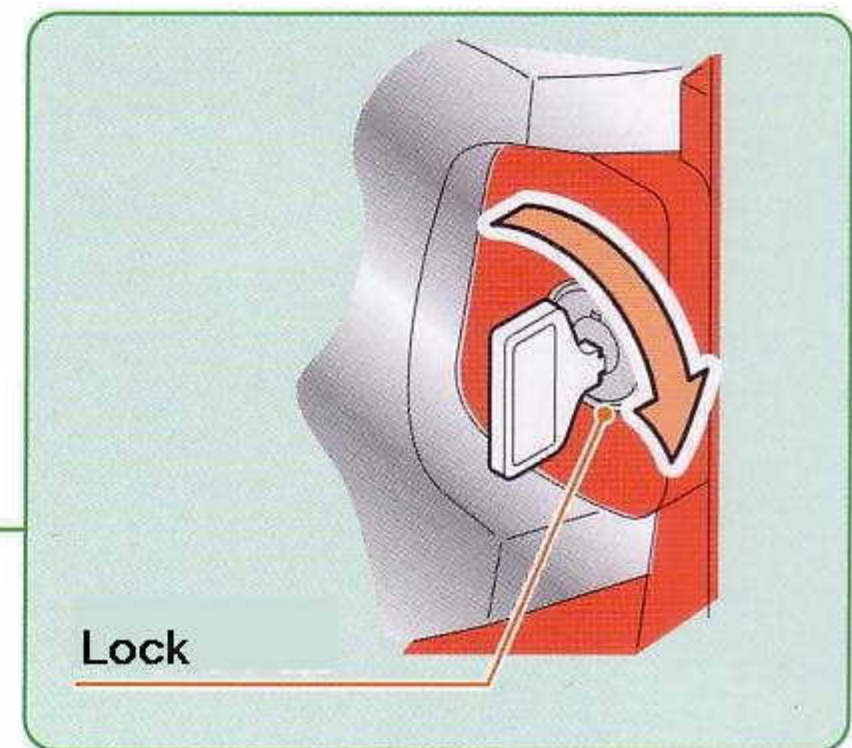
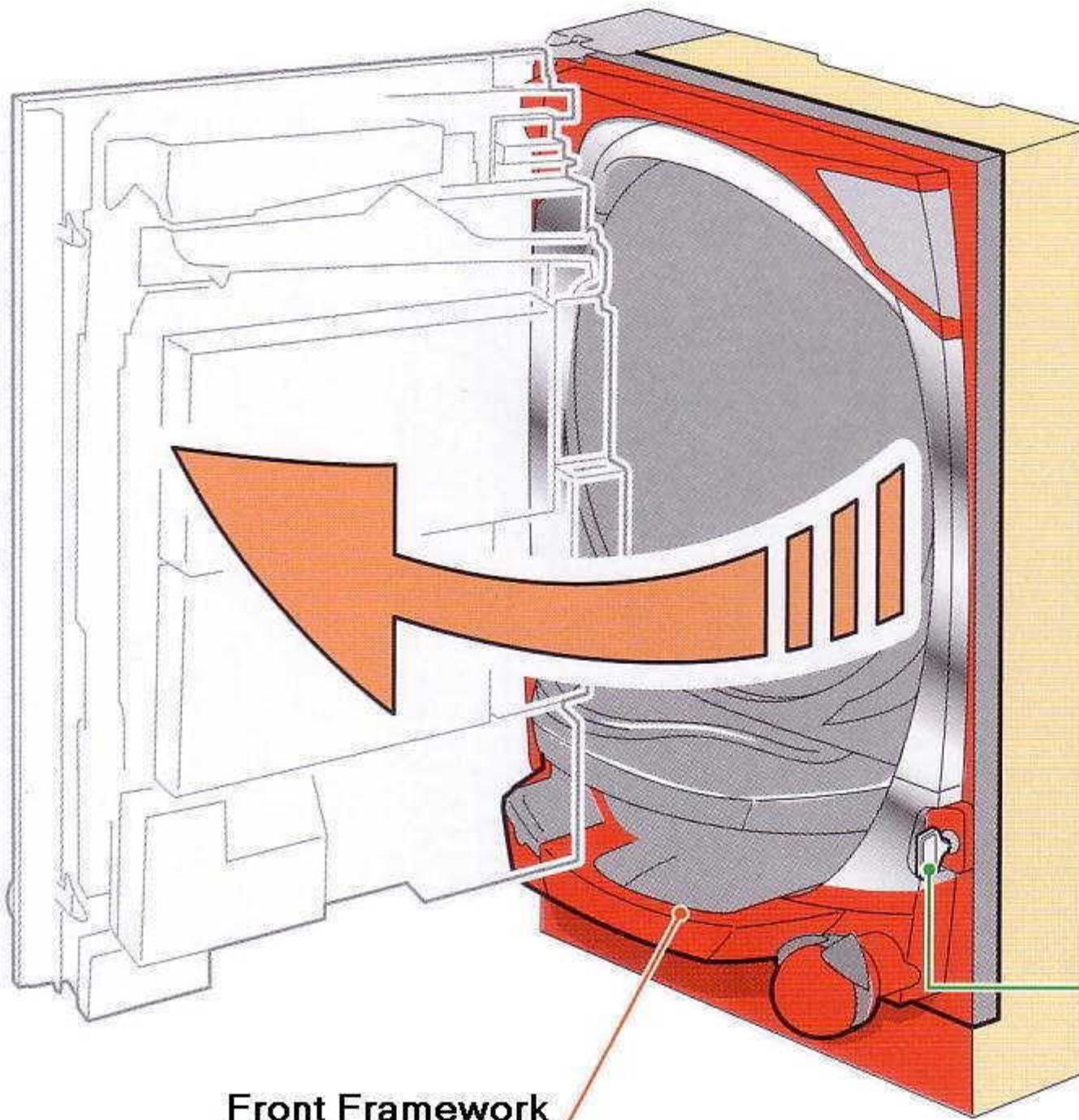
Opening the Front Framework



Caution: Follow instructions to avoid risk of injury

● Opening the Front Framework

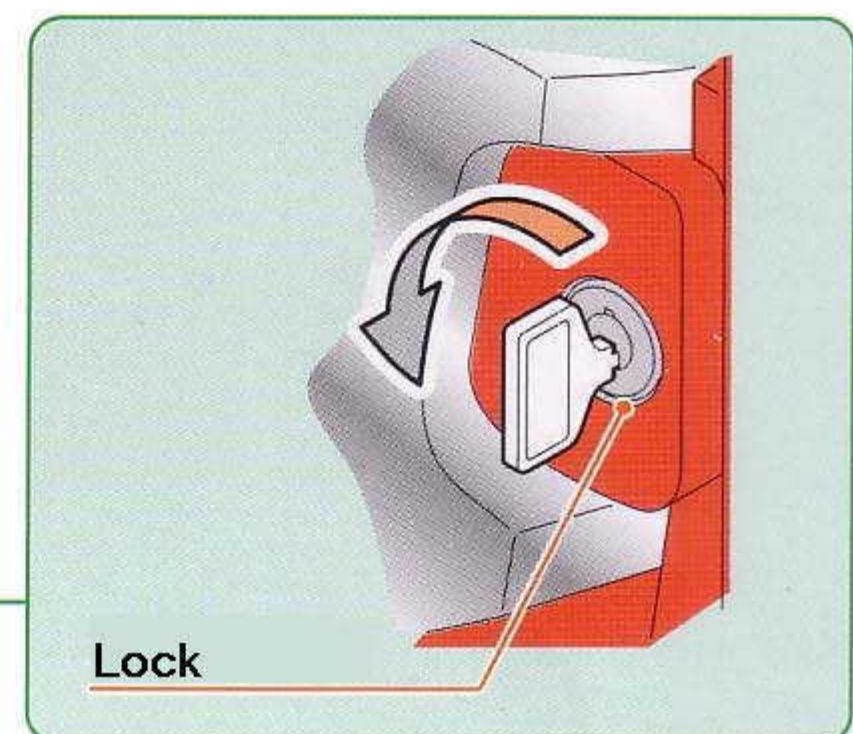
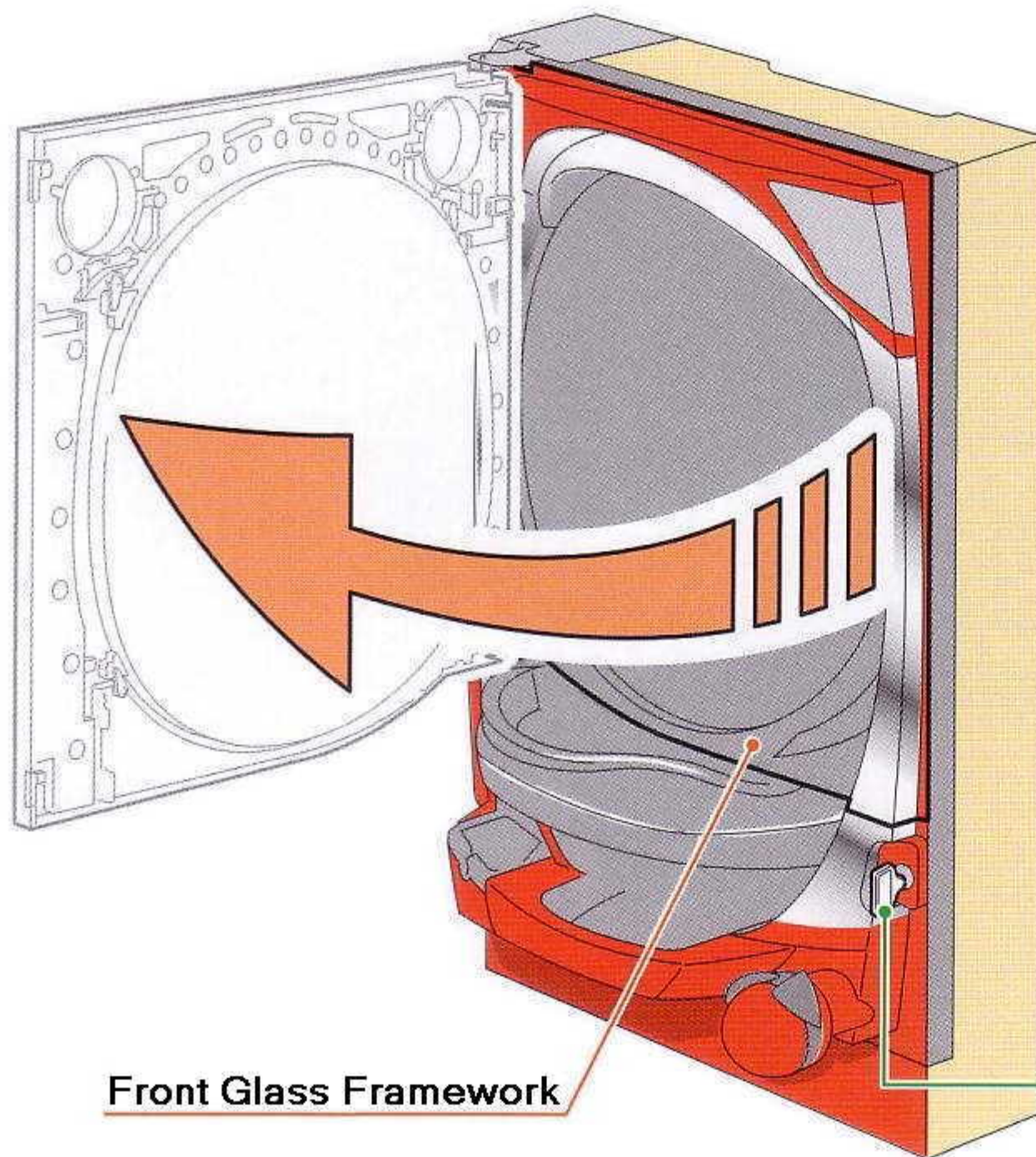
When the key is turned to the very right in the lock, the front framework can be opened.



OPERATION

● Opening the Front Glass Framework

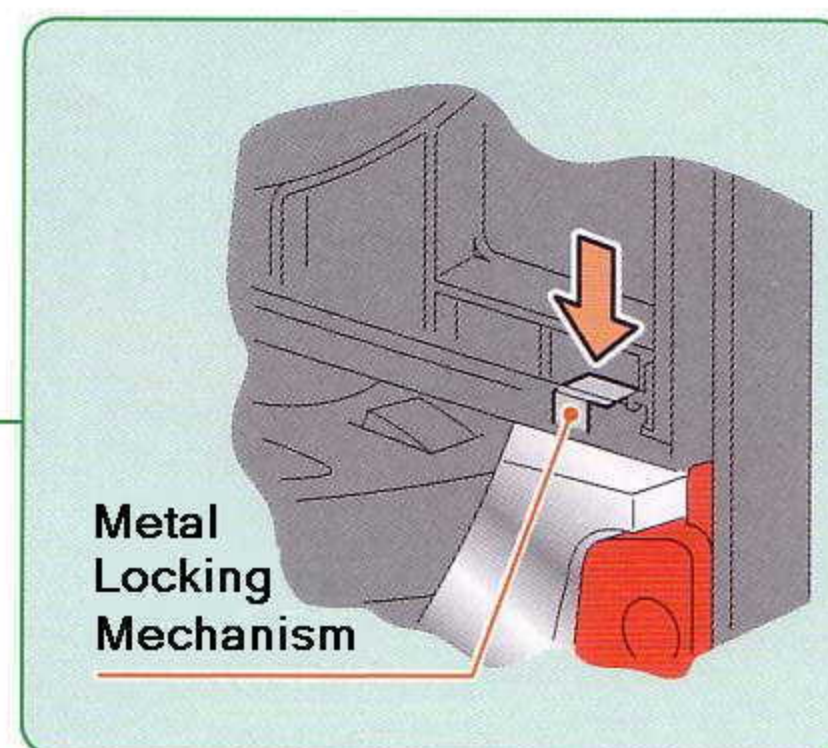
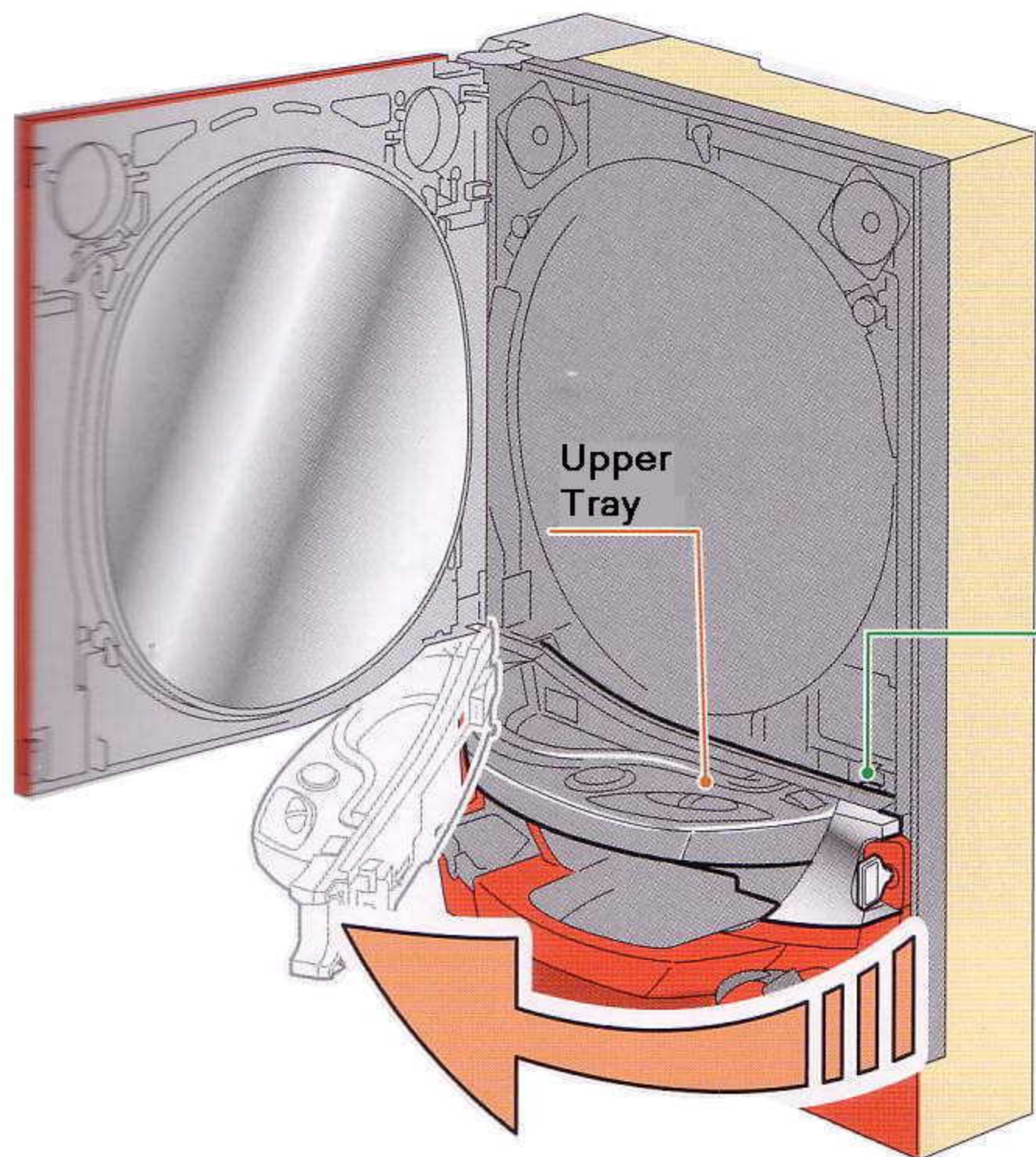
When the key is turned to the very left in the lock, the front glass framework can be opened.



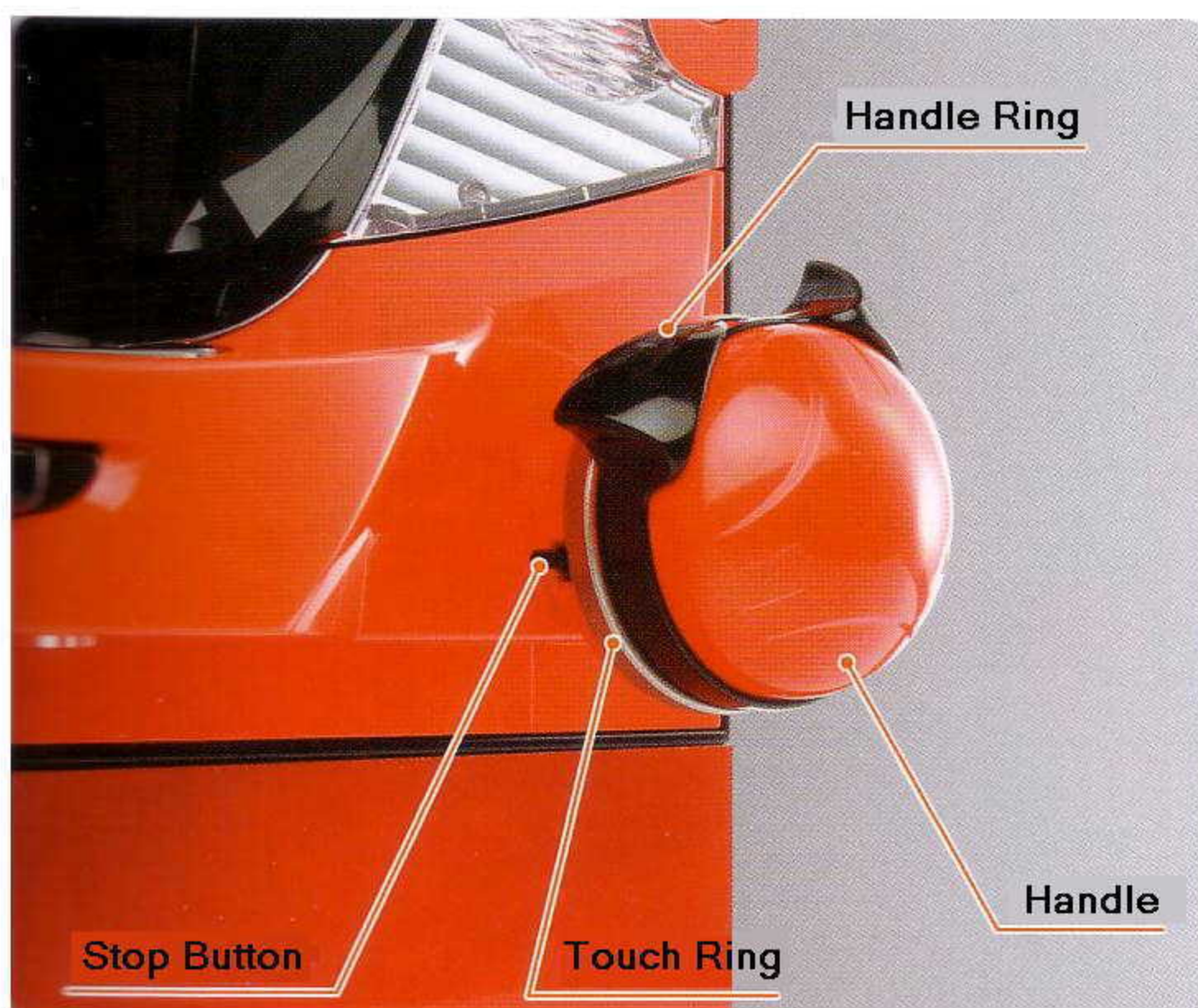
● **Opening the Upper Tray**

The key is turned to the very left in the lock, and the front framework is opened. (see page 8 for details)

When the metal locking mechanism is pressed (shown by the arrow below), the upper tray is opened.



Operation of Handle Section

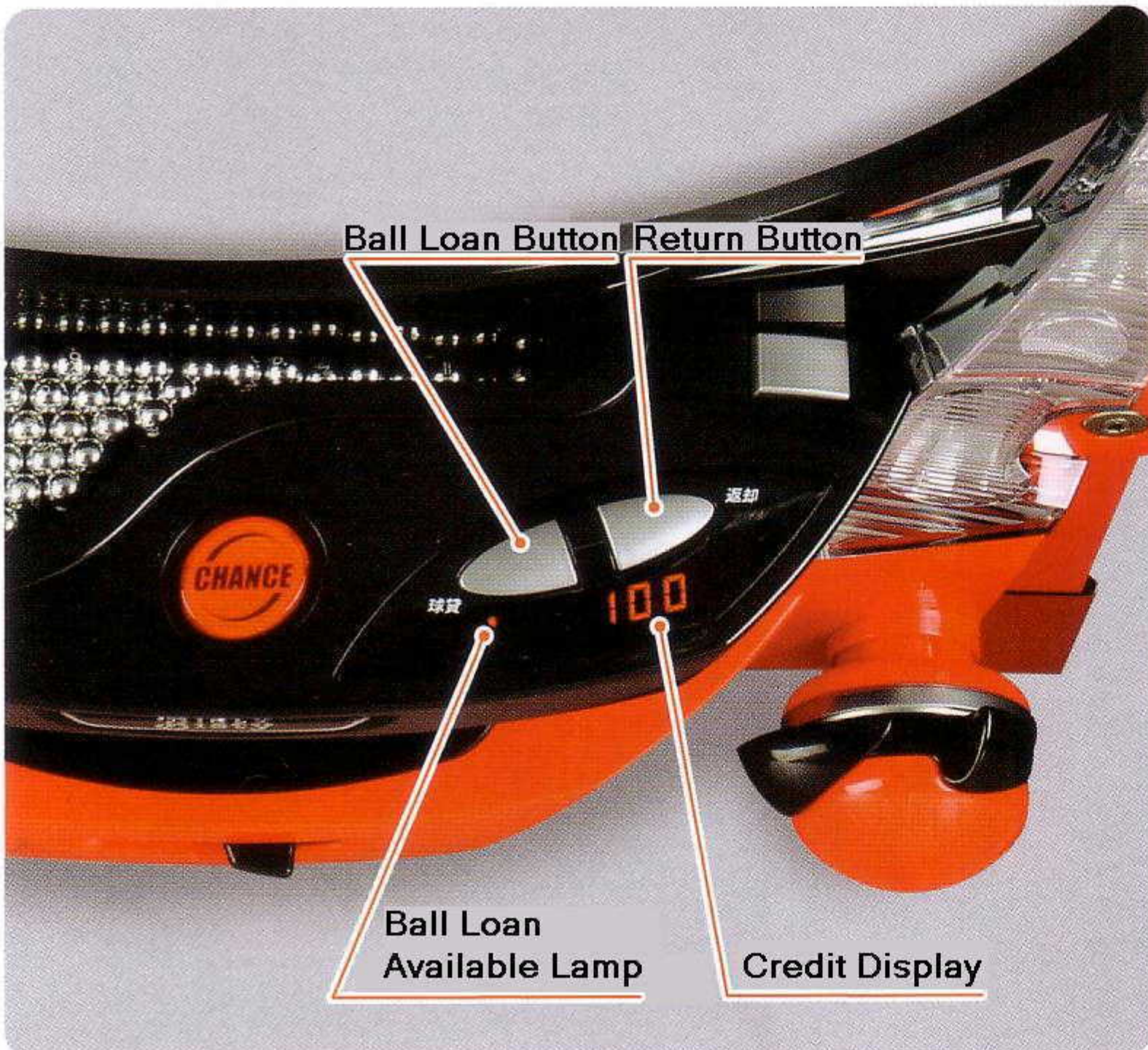


While touching the touch ring, turn the handle ring to the right to launch balls.

To adjust the strength of the ball launch, adjust the position of the handle ring.

If the stop button is pressed while launching balls, ball launching will cease.

Operation of Ball Loan Panel



Insert the prepaid card into the card unit.

The credit display indicates the amount remaining on the card.

When the ball loan available lamp has lit up, press the ball loan button to dispense balls into the upper tray.

When the return button is pressed the card is returned from the card unit.

OPERATION

Upper and Lower Trays



● Upper Tray

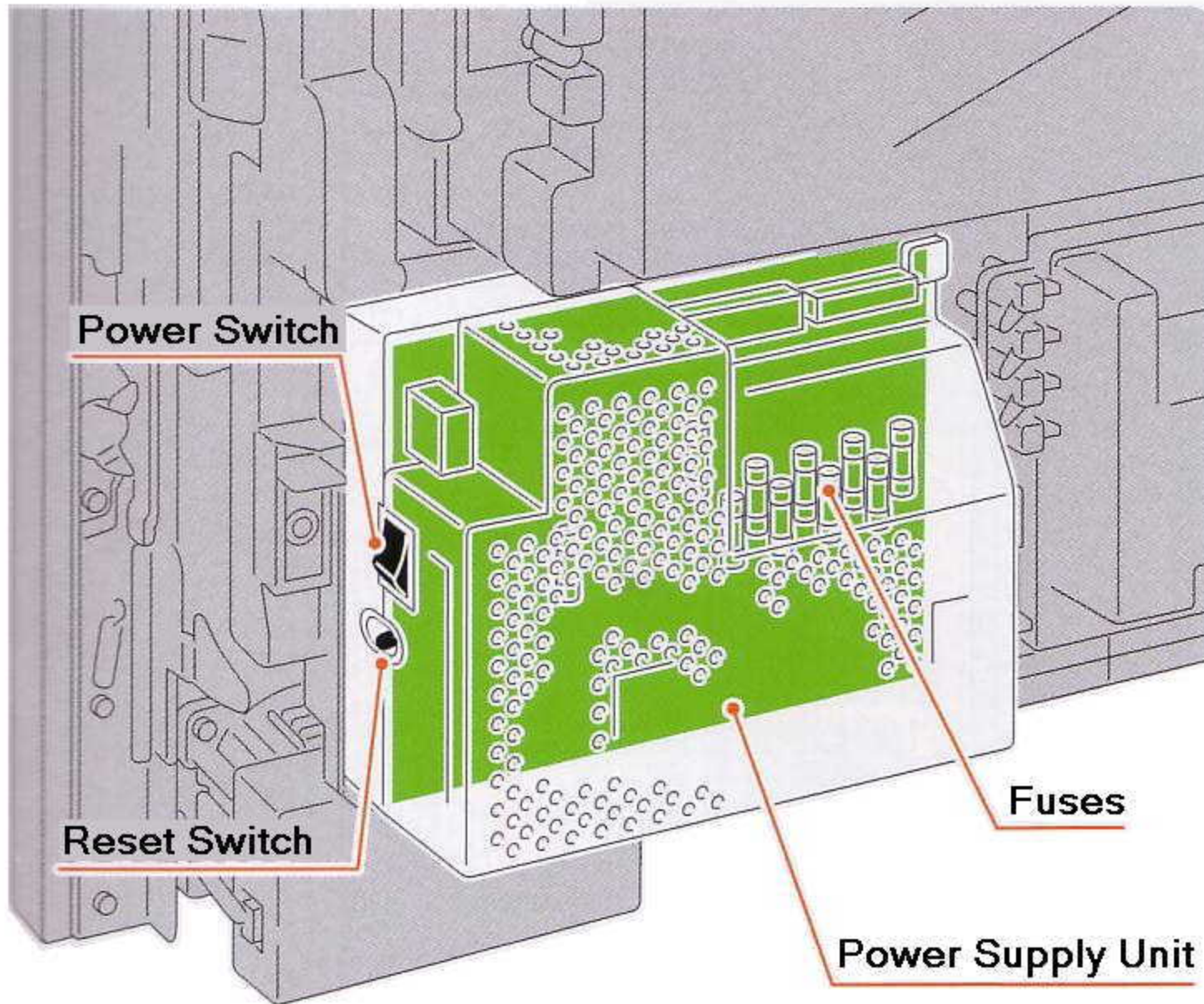
When the upper tray ball drain lever is pressed down, balls in the upper tray will drain into the lower tray.

● Lower Tray

A ball drain hole is provided underneath the centre of the lower tray.

When the lower tray ball drain lever is moved to the left, balls will drain from the lower tray out of the ball drain hole.

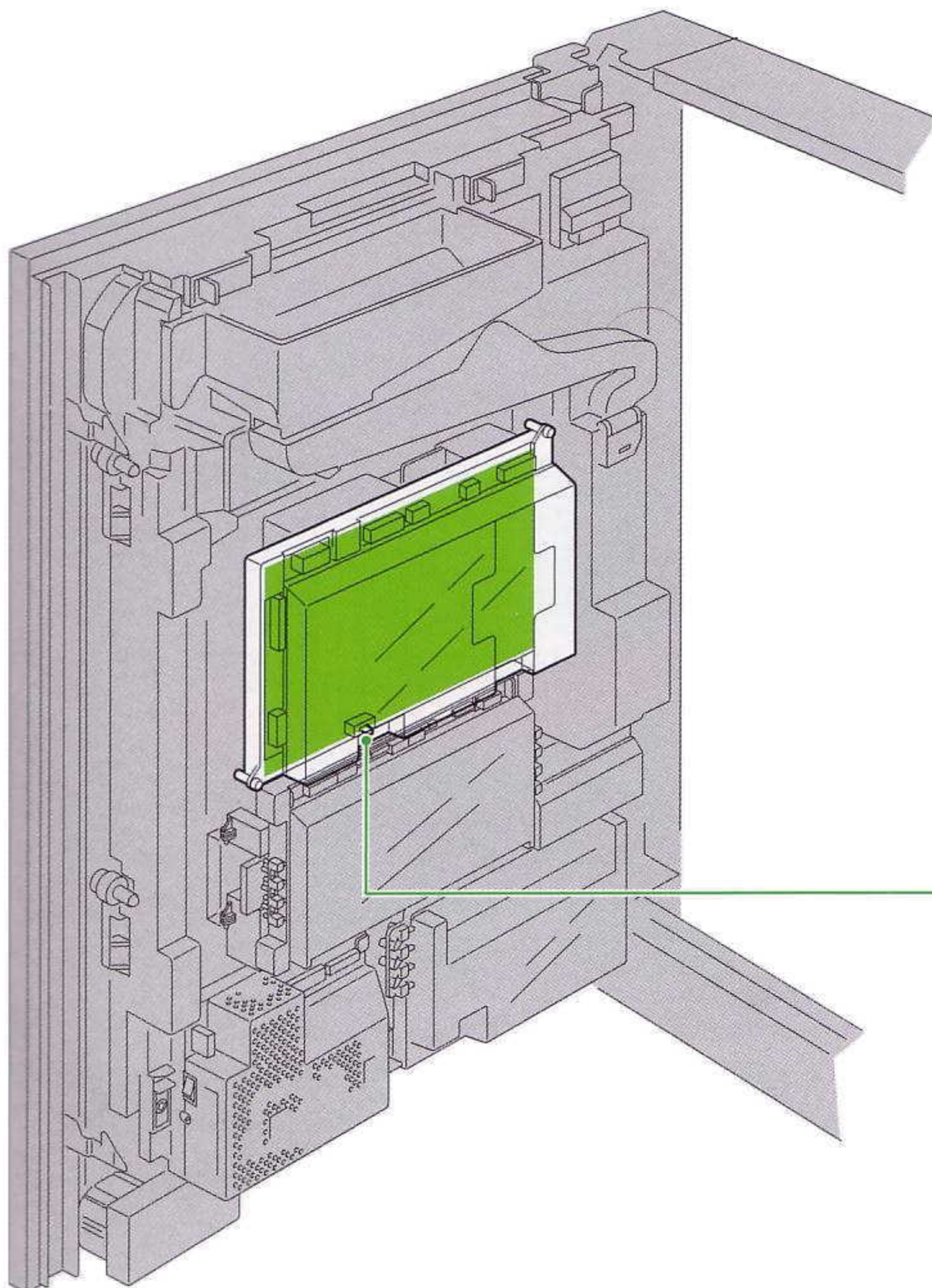
Power Supply and Reset Switches



When the power switch is turned on, power is supplied to the pachinko machine.

To clear backup memory, press the reset button and turn on power switch, while continuing to push the reset button for 4-5 seconds after power is turned on.

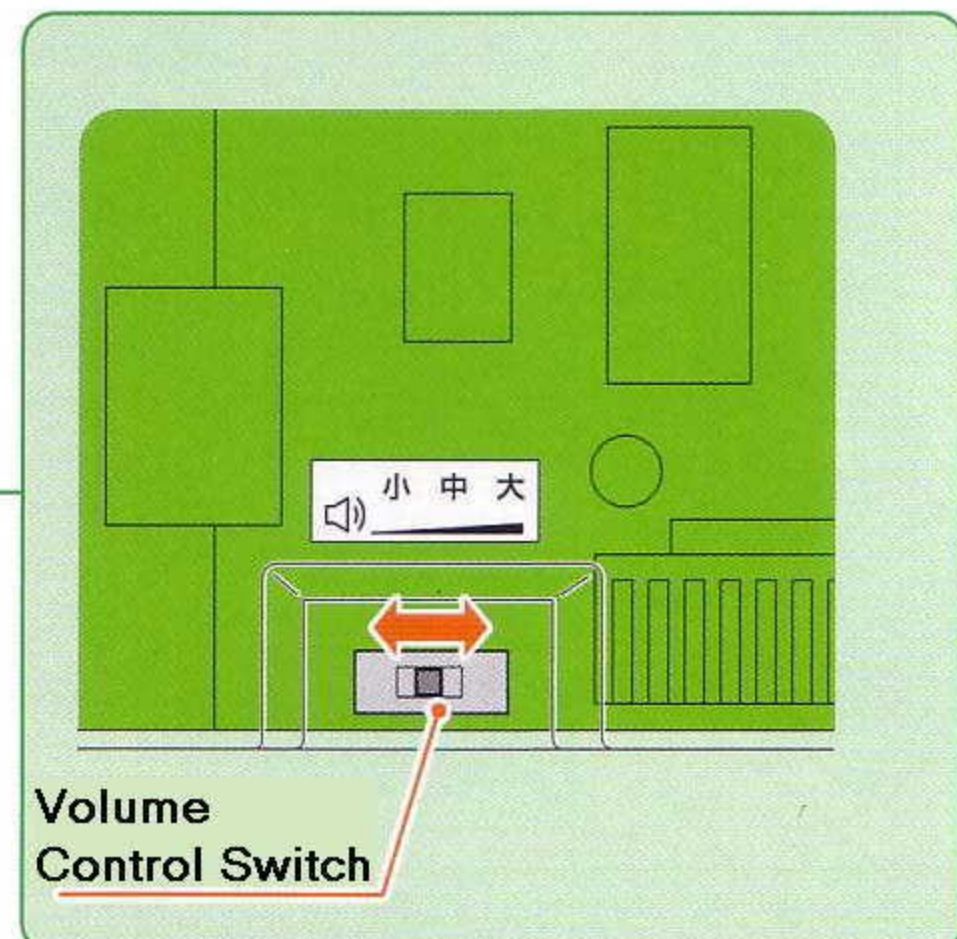
Volume Control



The volume control switch can set the volume to three levels Loud - Medium - Quiet.

Please set the volume control switch to your preferred level.

Please note that volume control switch may be located in a different position.



Removal of Game Board

1

Removal of Cables



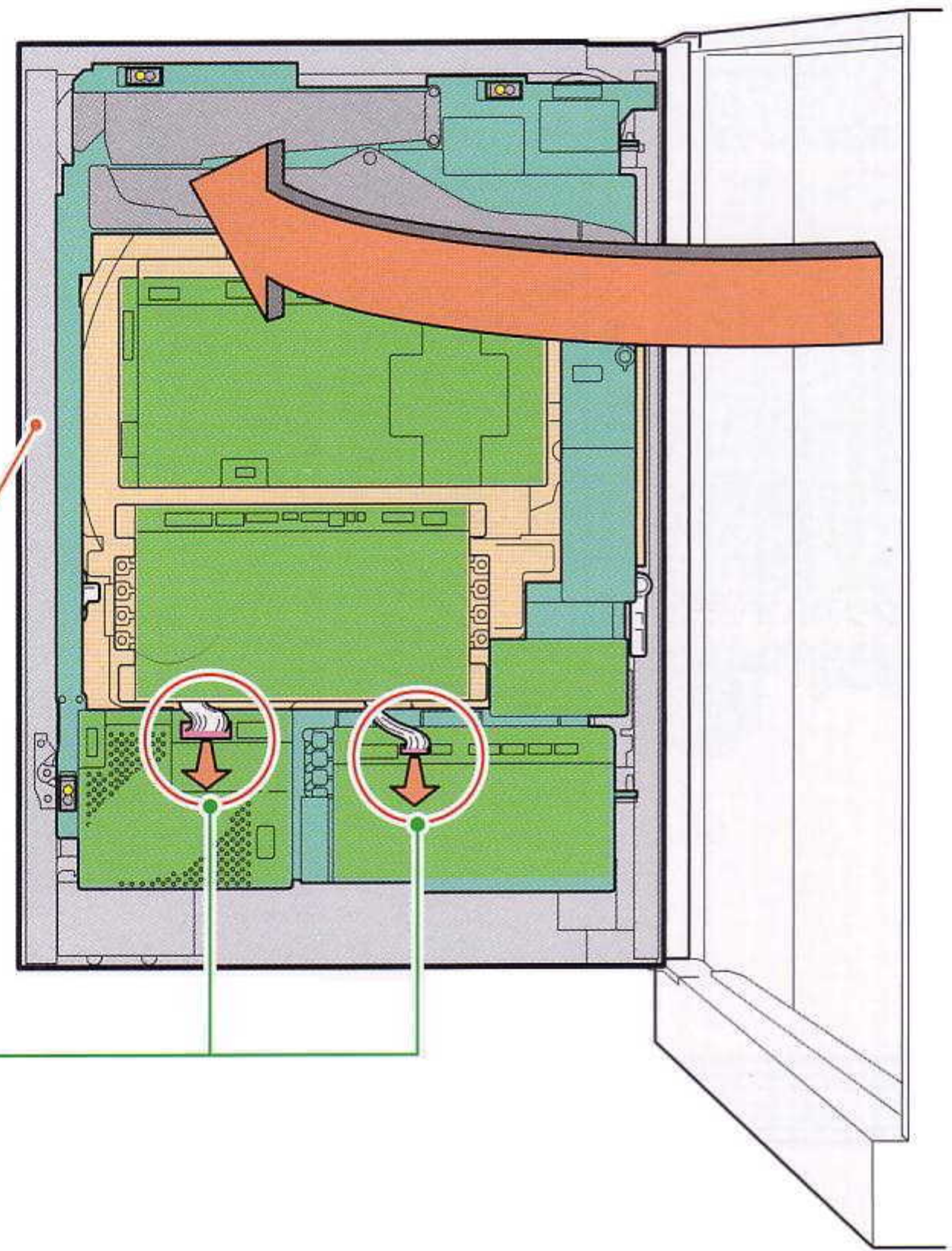
Before working on machine, always turn off at power switch and remove plug.

The front framework is opened (see page 8 for details), and any cables connected to the cell external output terminals are removed.

Remove the two pink connectors circled in the picture.

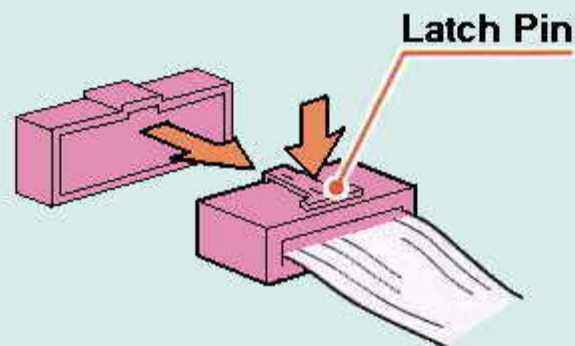
(On some machines the main control board must also be removed at this stage to enable the steps below to be carried out.)

Front Framework



The connectors are of a latching type. Please hold in the latch pin whilst removing connector.

If removed with unreasonable force the cable, connector or PCB may become damaged.

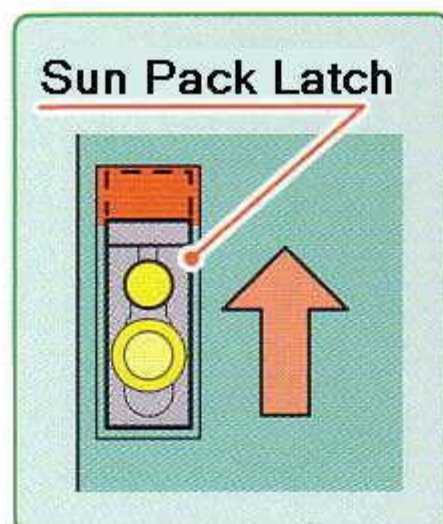
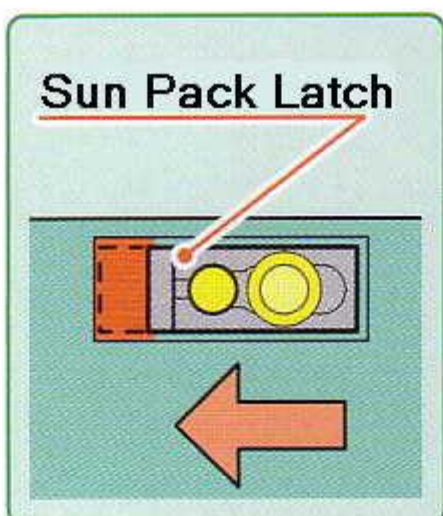


2

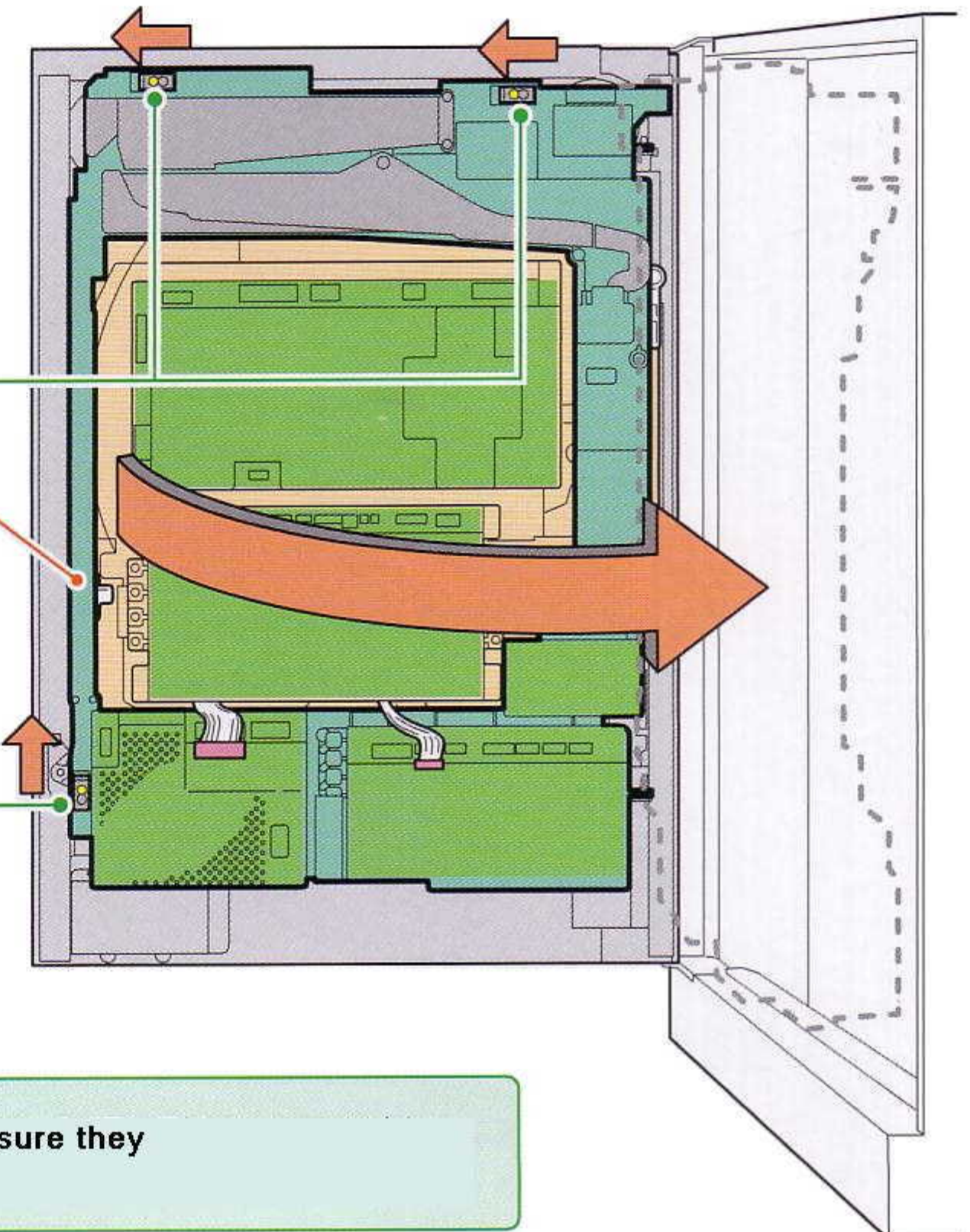
Opening the Sun Pack

Move the three sun pack latches in the direction of the arrows.

Pull the left hand side of the sun pack forward to open the sun pack



Sun Pack



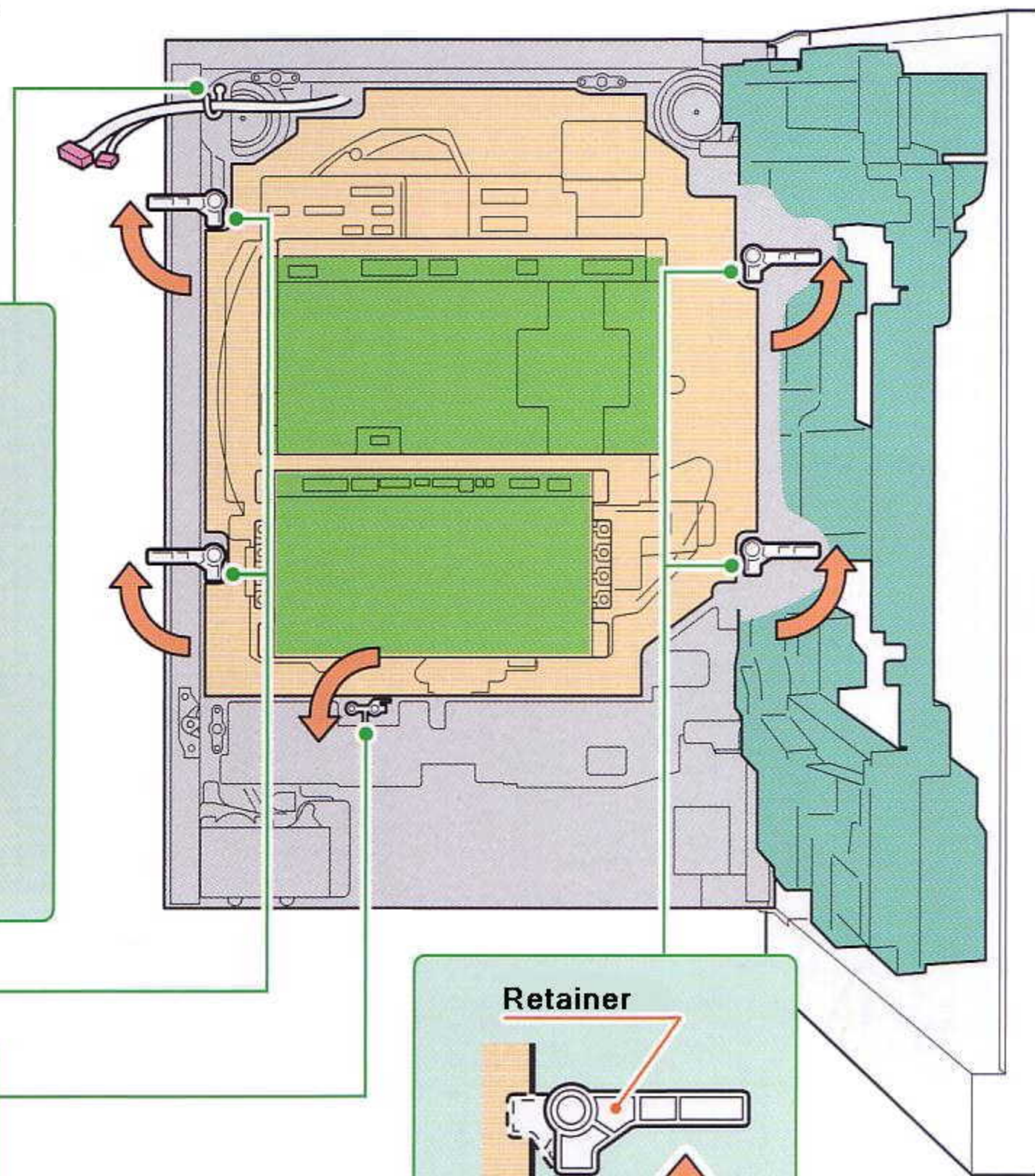
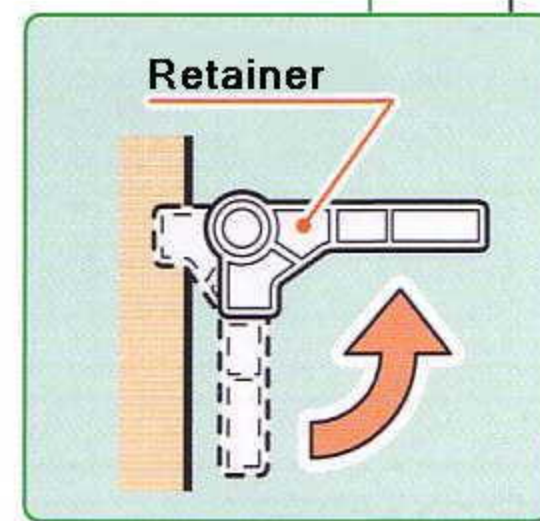
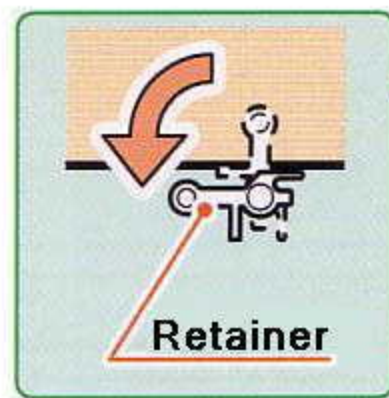
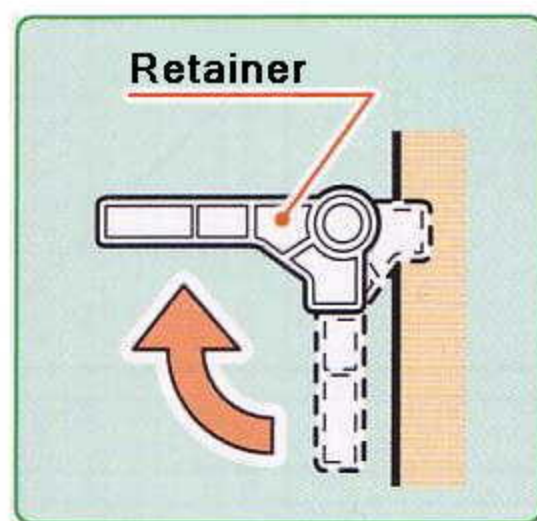
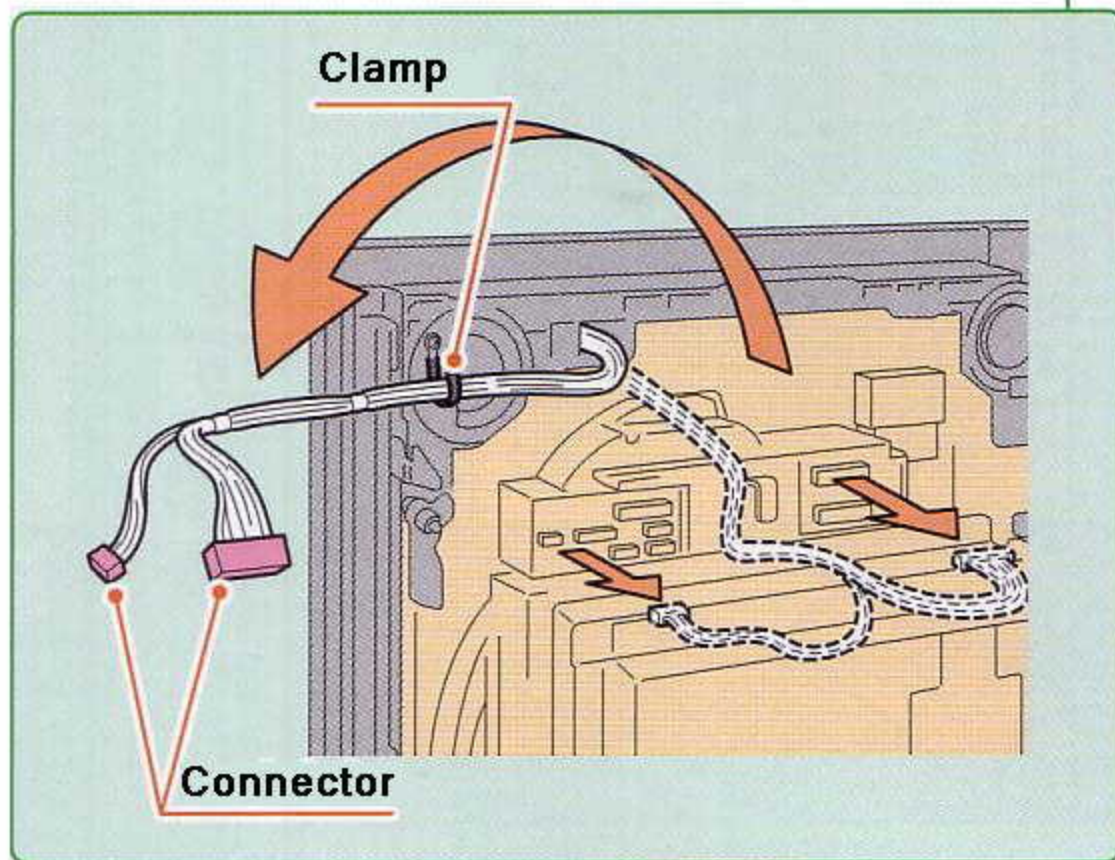
To avoid damage to cables and connectors, please ensure they are not pulled or caught when opening the sun pack.

3

Opening Game Board Retainers

Disconnect the two pink connectors and hang cable out of the way using the clamp provided. (Connector position may vary.)

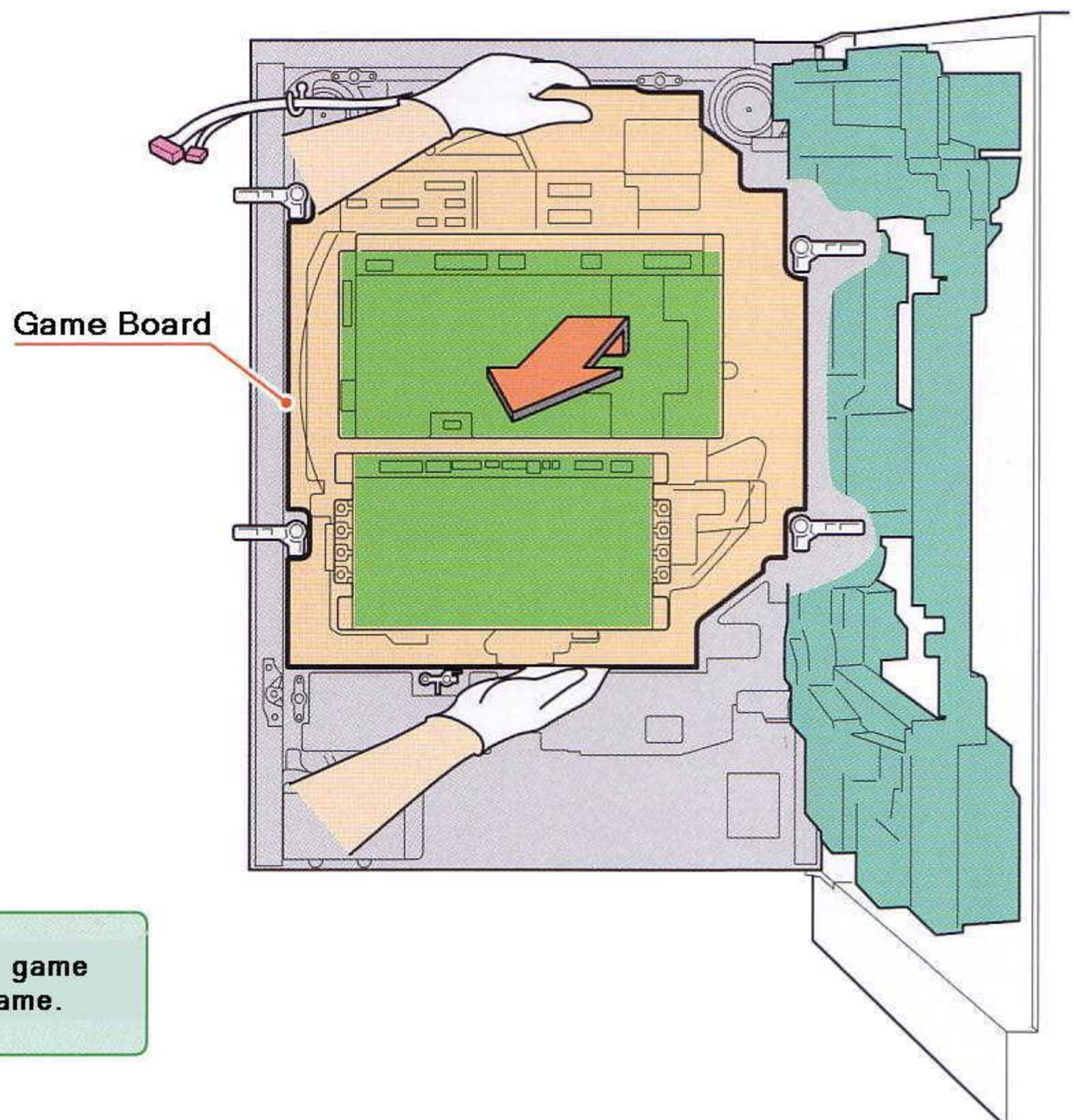
Rotate the five white game board retainers in the direction shown by the arrows.



4

Removal of Game Board

Holding the top and bottom of the game board, it is removed by hand.



Please be careful not to drop game board while removing from frame.

Installation of Game Board

1

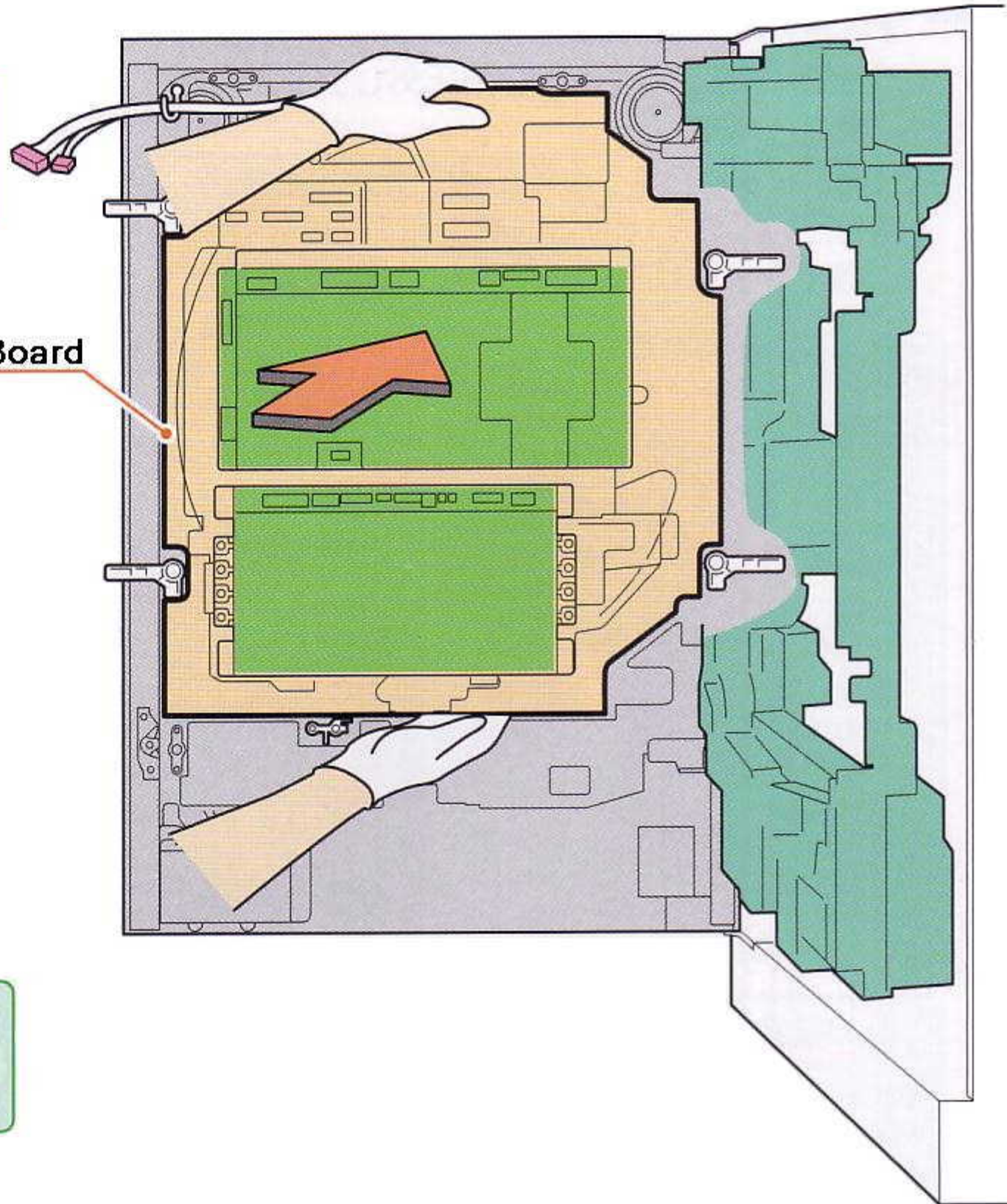
Installation of Game Board



Before working on machine, always turn off at power switch and remove plug.

Holding the top and bottom of the game board, it is installed by hand.

Game Board

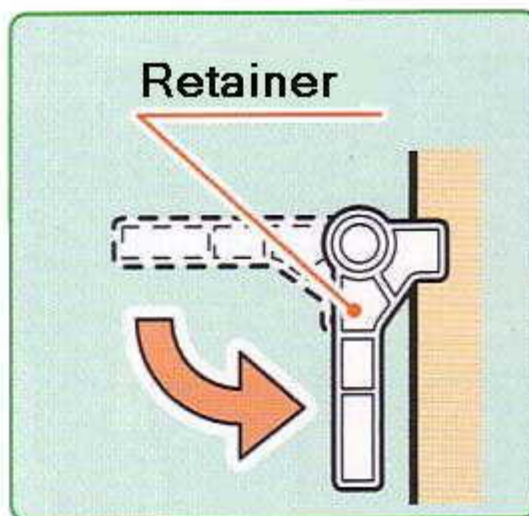


Please be careful not to drop game board when replacing in frame.

2

Fixing of Game Board

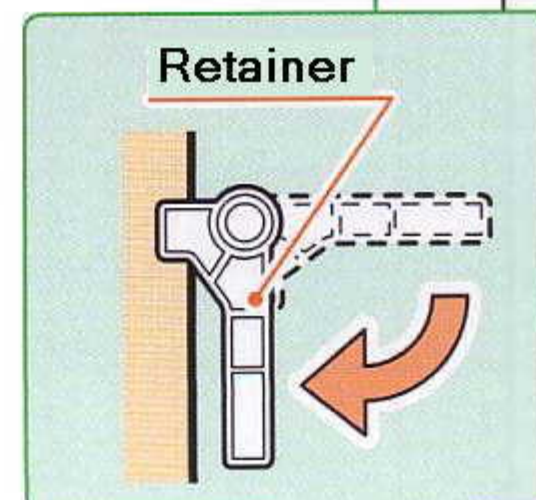
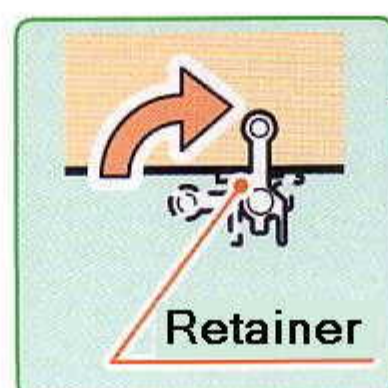
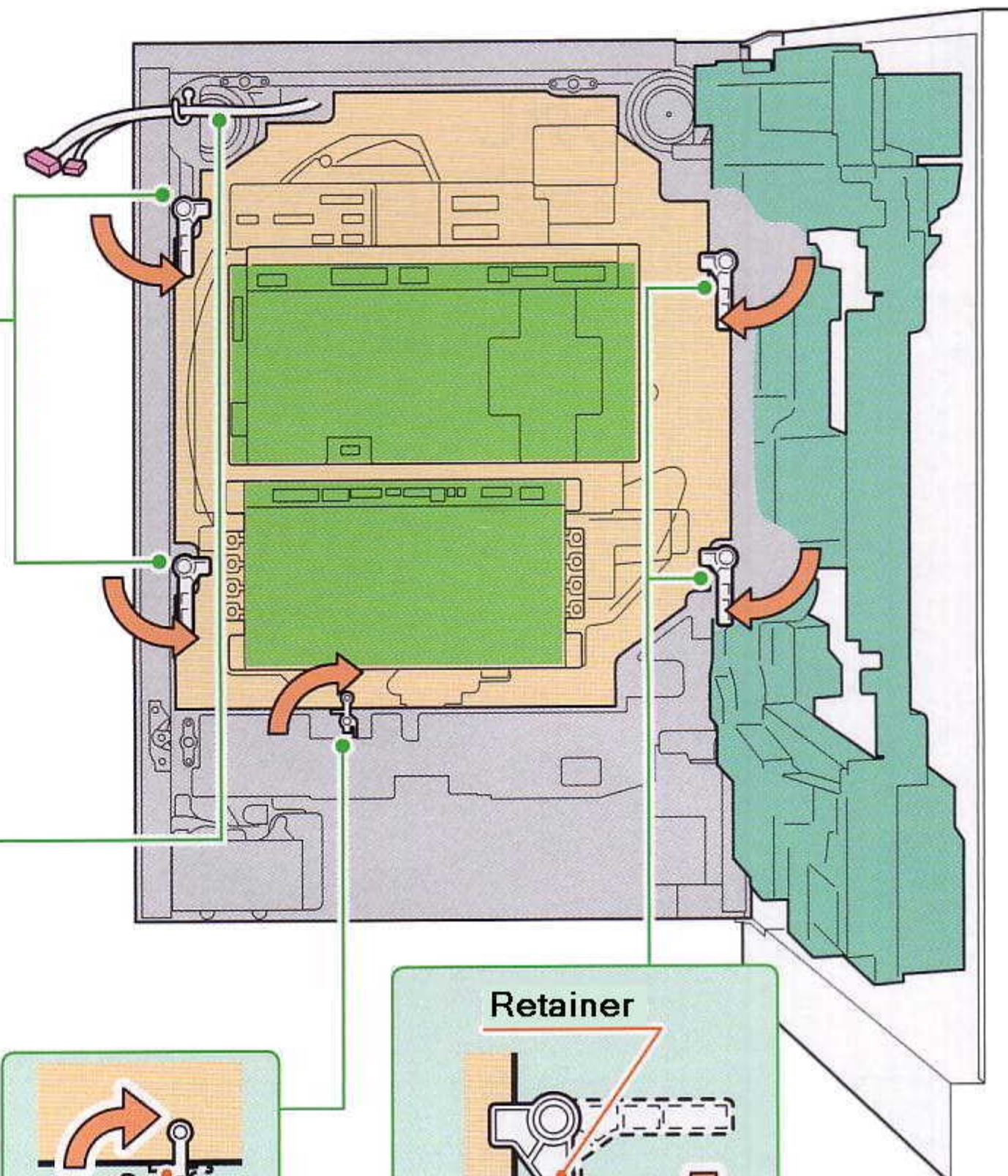
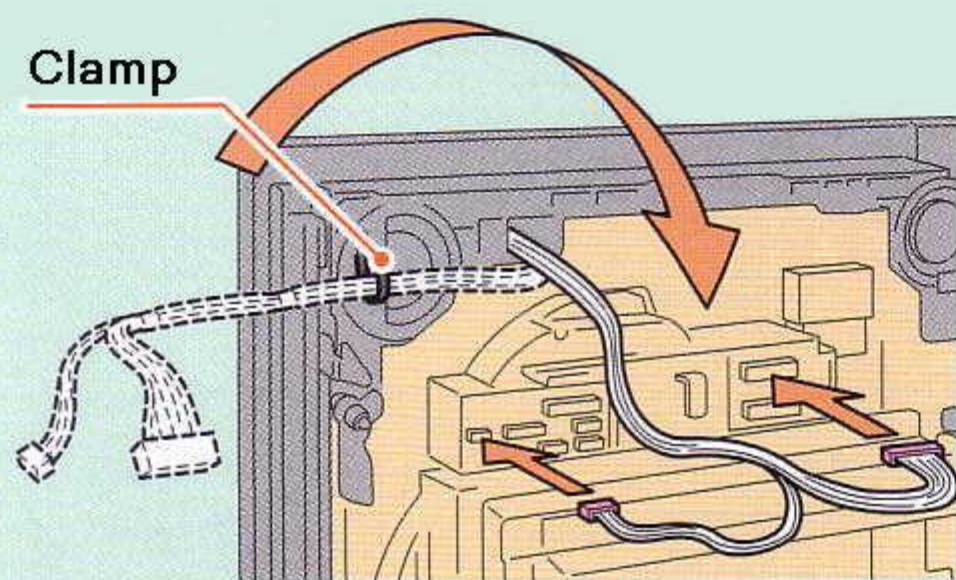
Rotate the five white game board retainers in the direction shown by the arrows.



The cable is removed from the clamp and reconnected to the two pink connectors. (Connector position may vary.)

Please ensure the cable is secure and correctly routed so that it does not become trapped when sun pack is closed.

Clamp

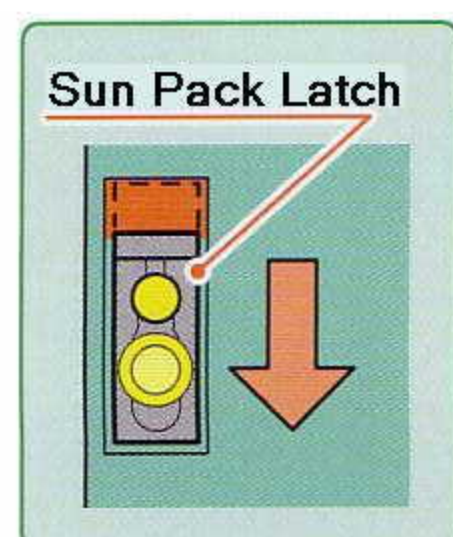
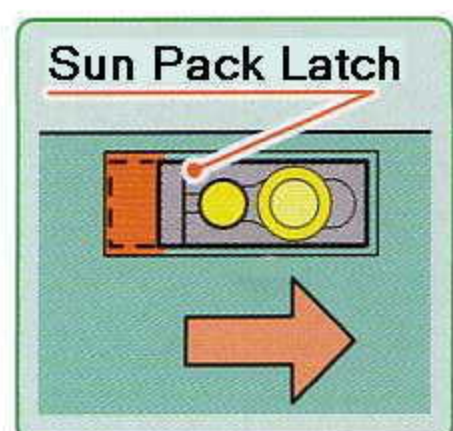


3

Closing of Sun Pack

While checking to ensure that cables are not trapped, close the sun pack.

Move the three sun pack latches in the direction of the arrows to secure the sun pack.



Sun Pack



The sun pack is closed to leave the pink connector cables visible. Before locking the sun pack, please check that cables have not been trapped.

4

Reconnection of Cables

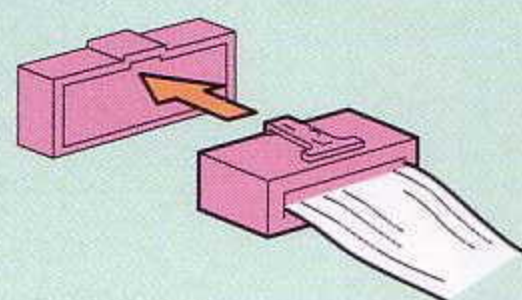
Reconnect the cell external output connectors, and the two pink connectors circled in the picture.

The front framework can now be closed.

Front Framework



Please ensure the connectors are secure before closing the front framework.

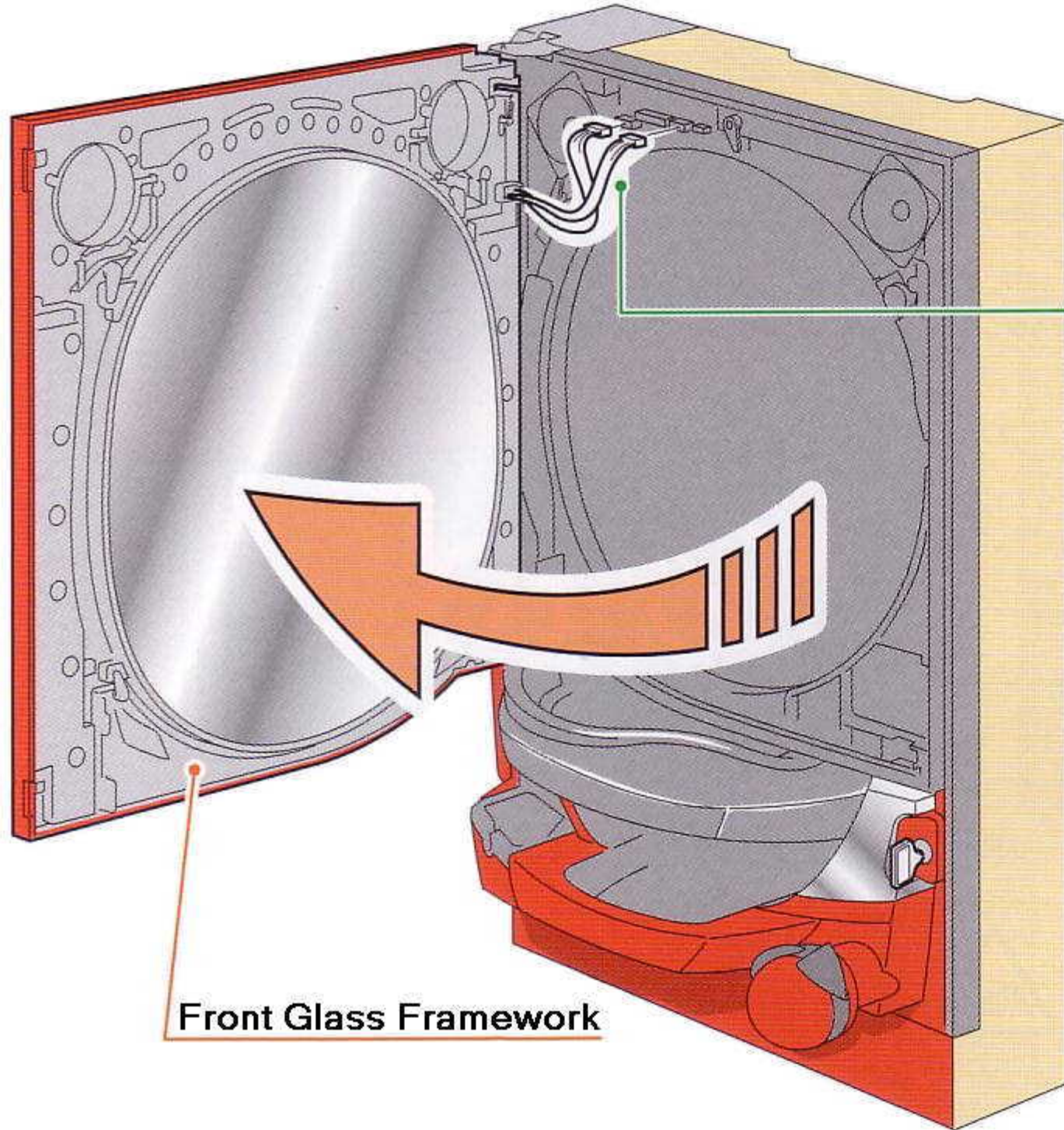


Removal of Front Glass Framework



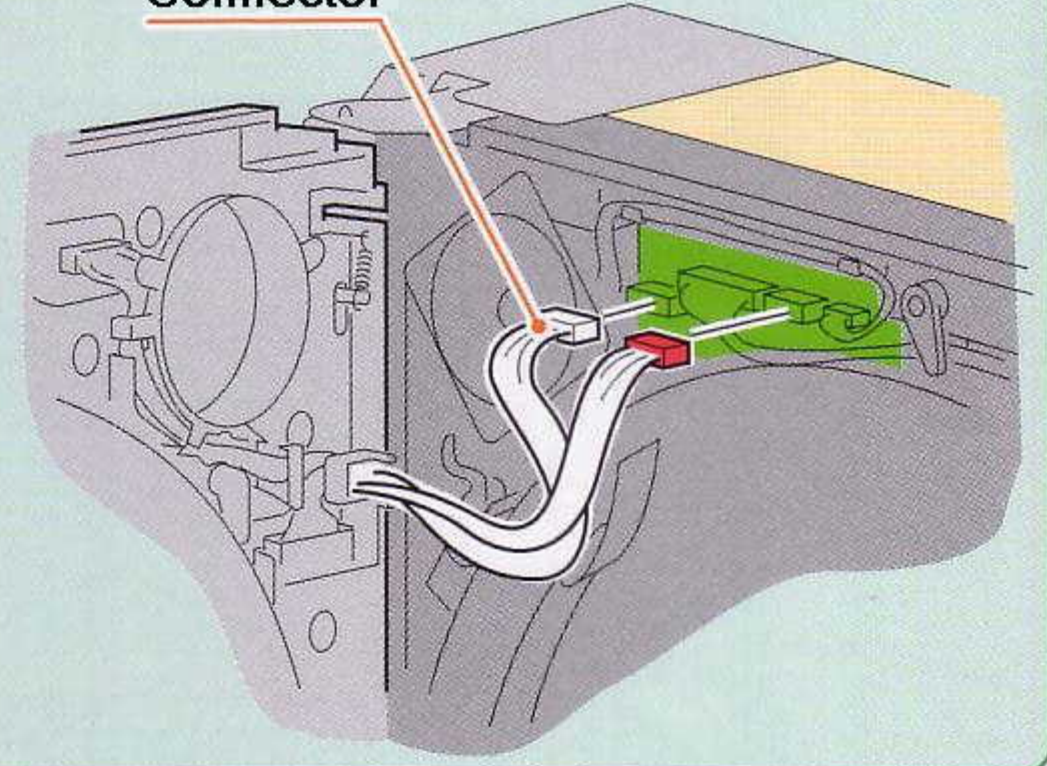
Before working on machine, always turn off at power switch and remove plug.

The front glass framework is opened (see page 8 for details) and the two connectors shown below are removed.

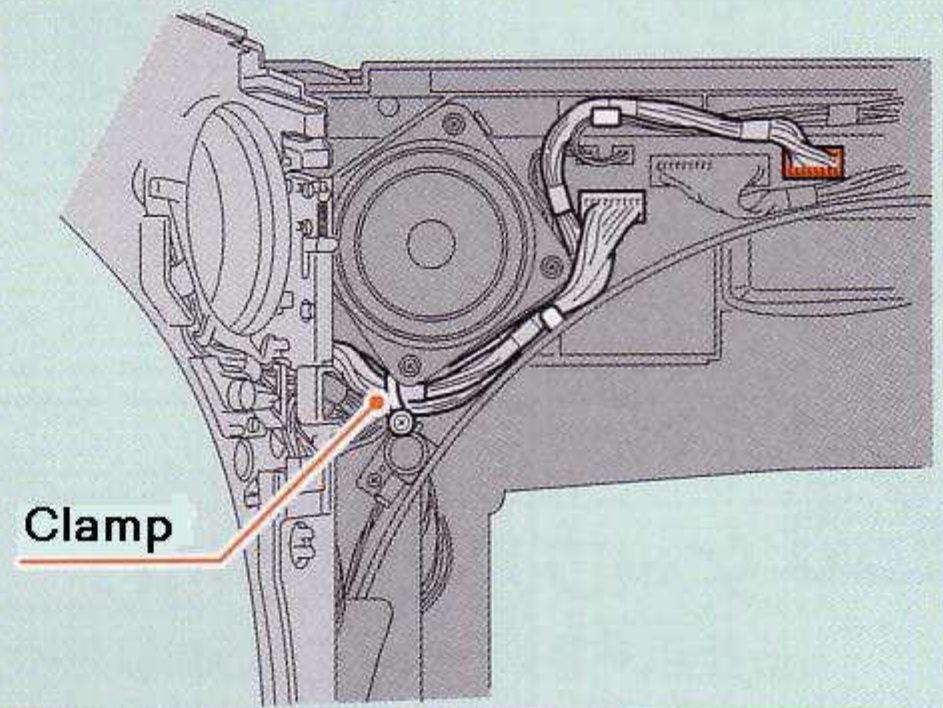


The cable is unclipped from the cord clamp, and the connector is removed.

Connector

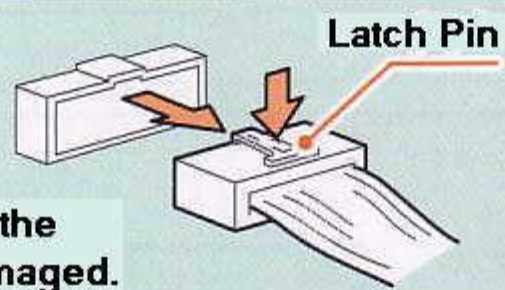


When replacing, please ensure the connector is secure and the cable is routed as shown in the diagram below.

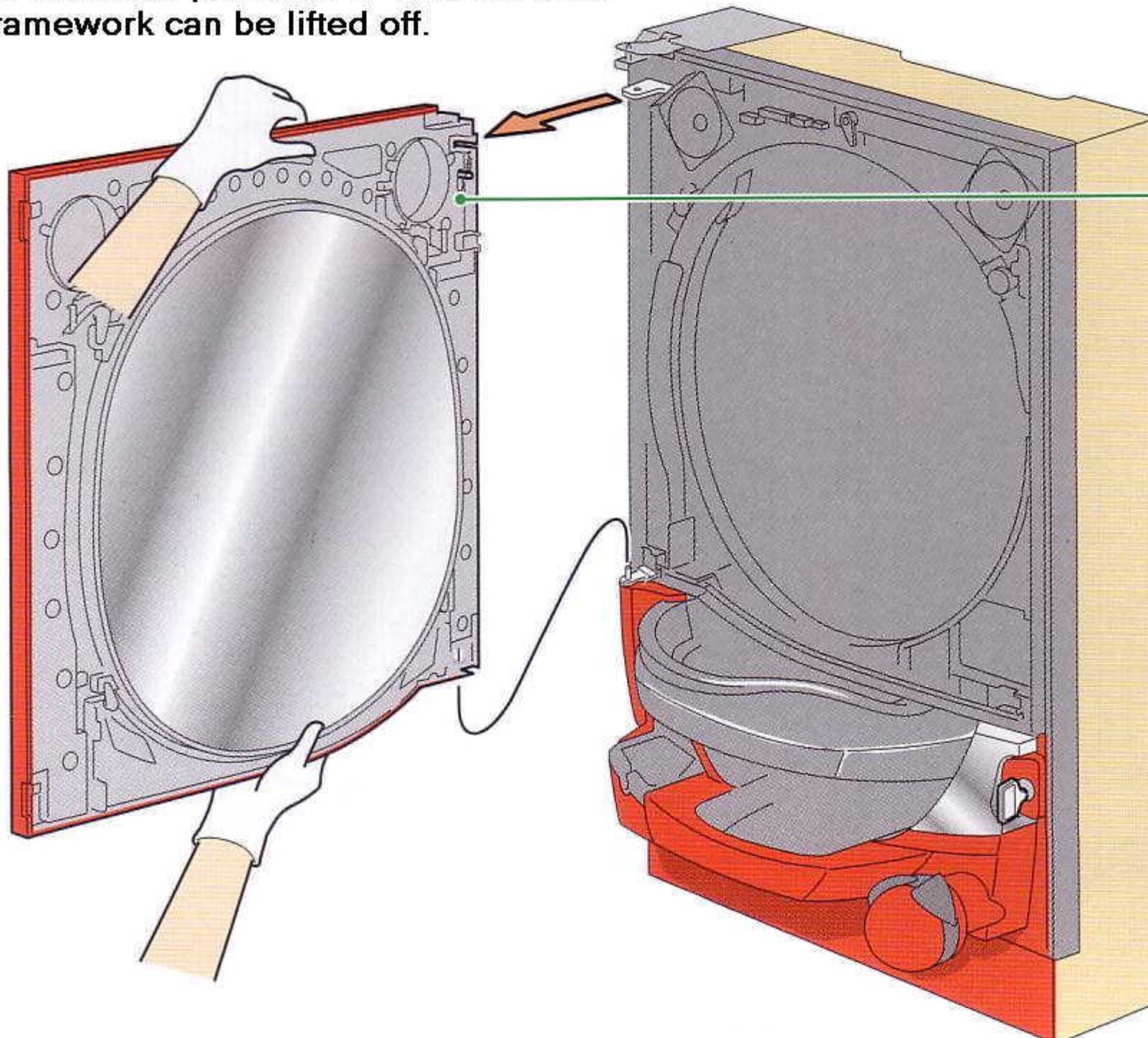


The connectors are of a latching type. Please hold in the latch pin whilst removing connector.

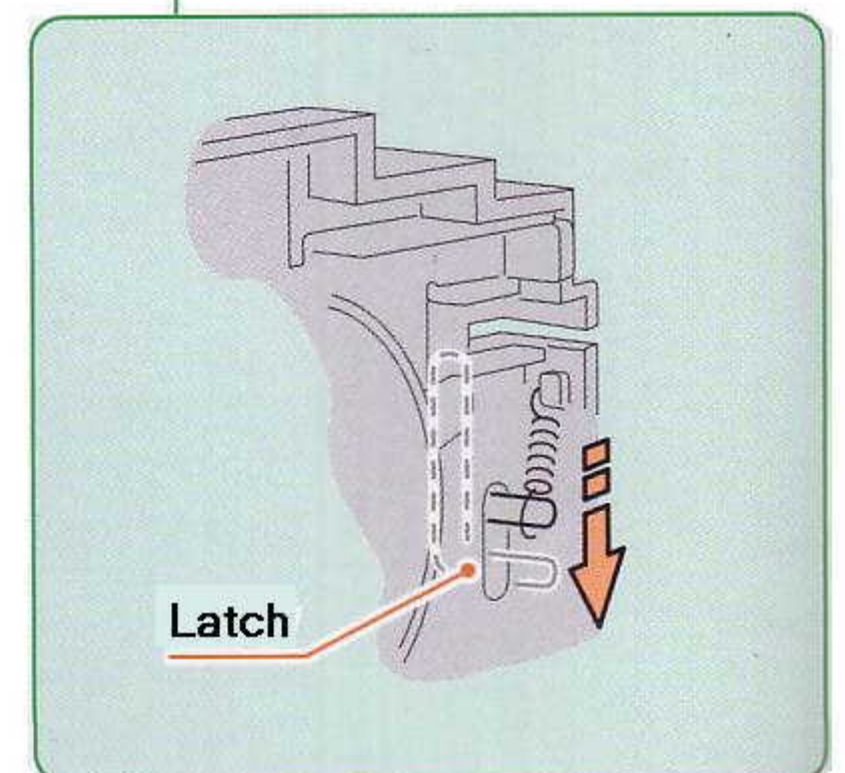
If removed with unreasonable force, the cable, connector or PCB may be damaged.



Release the latch, pull forward and the front glass framework can be lifted off.



Latch



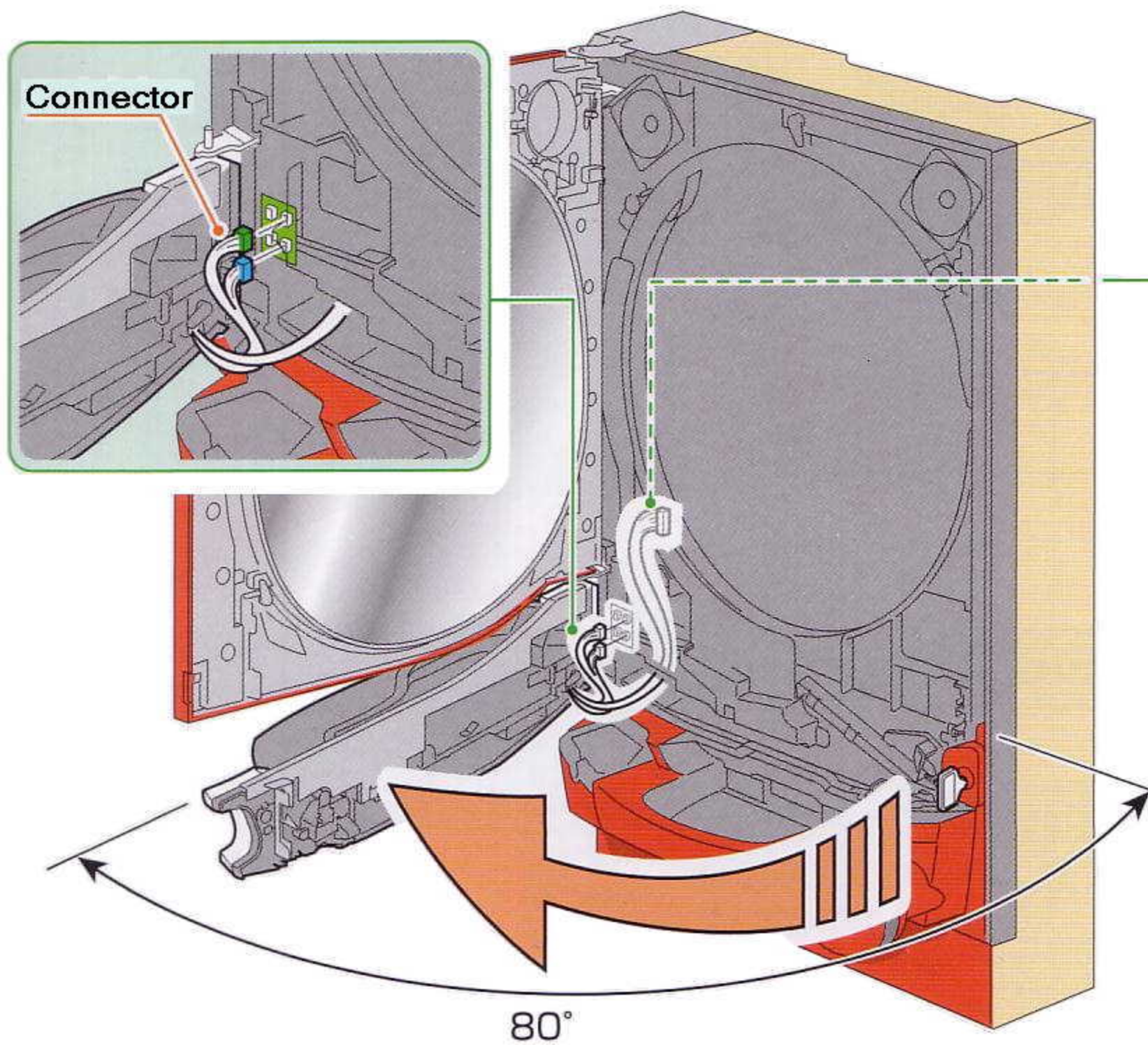
Removal of Upper Front Tray



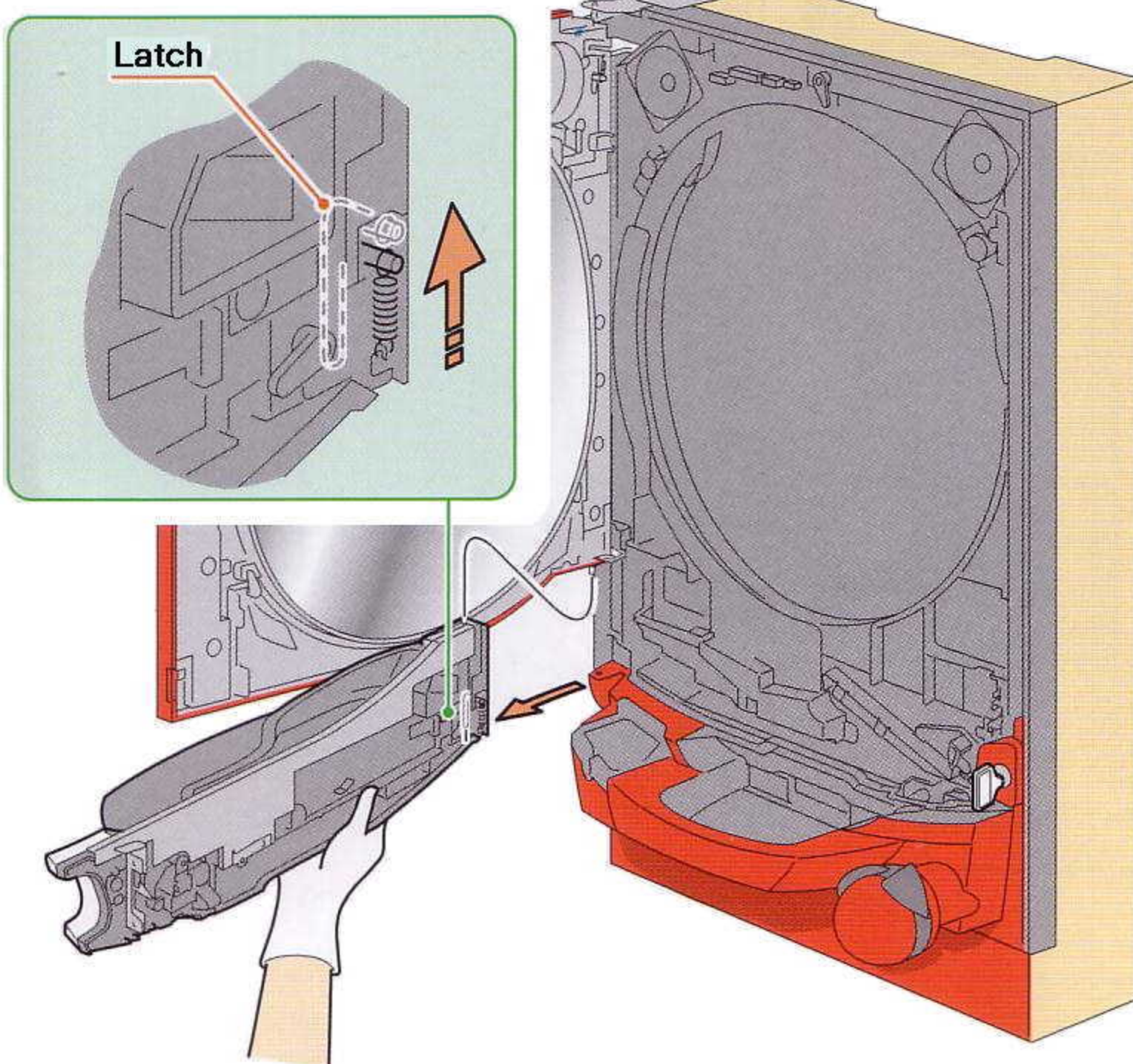
Before working on machine, always turn off at power switch and remove plug.

The front framework is opened (see page 8 for details) and the card unit interface board connector is removed.

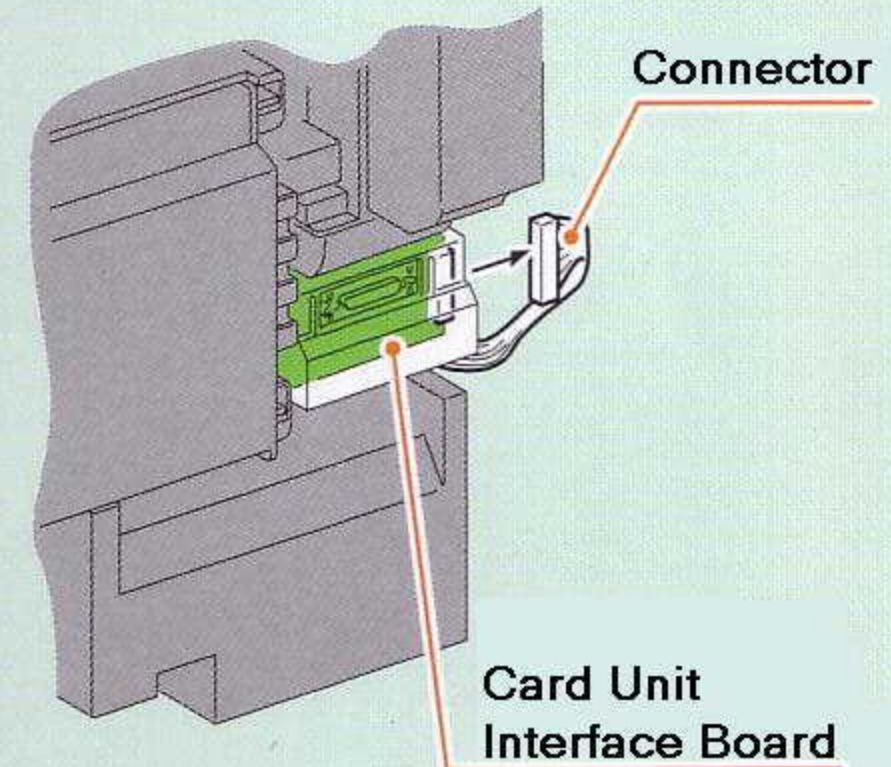
The front glass framework and the upper front tray are opened (see page 9 for details) and the two connectors are removed.



Open the upper front tray approximately 80° unlock the latch pin and the upper front tray can be lifted off.

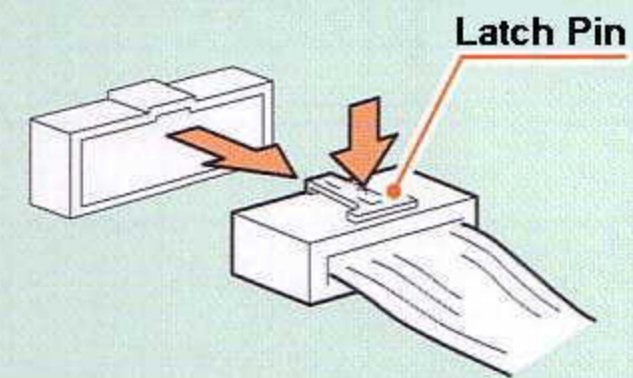


The cord clamp is released and the connector can be removed.



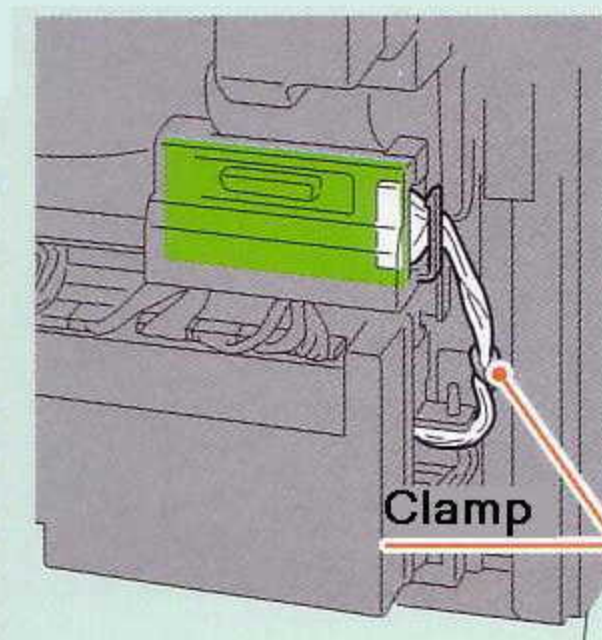
The connectors are of a latching type. Please hold in the latch pin whilst removing connector.

If removed with unreasonable force the cable, connector or PCB may become damaged.

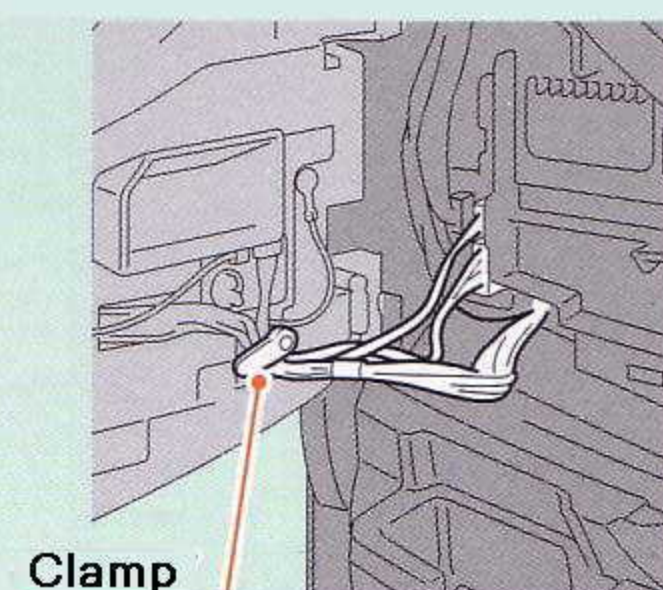


When replacing, please ensure the connector is secure and the cable is routed as shown in the diagram below.

Card Unit Interface Board



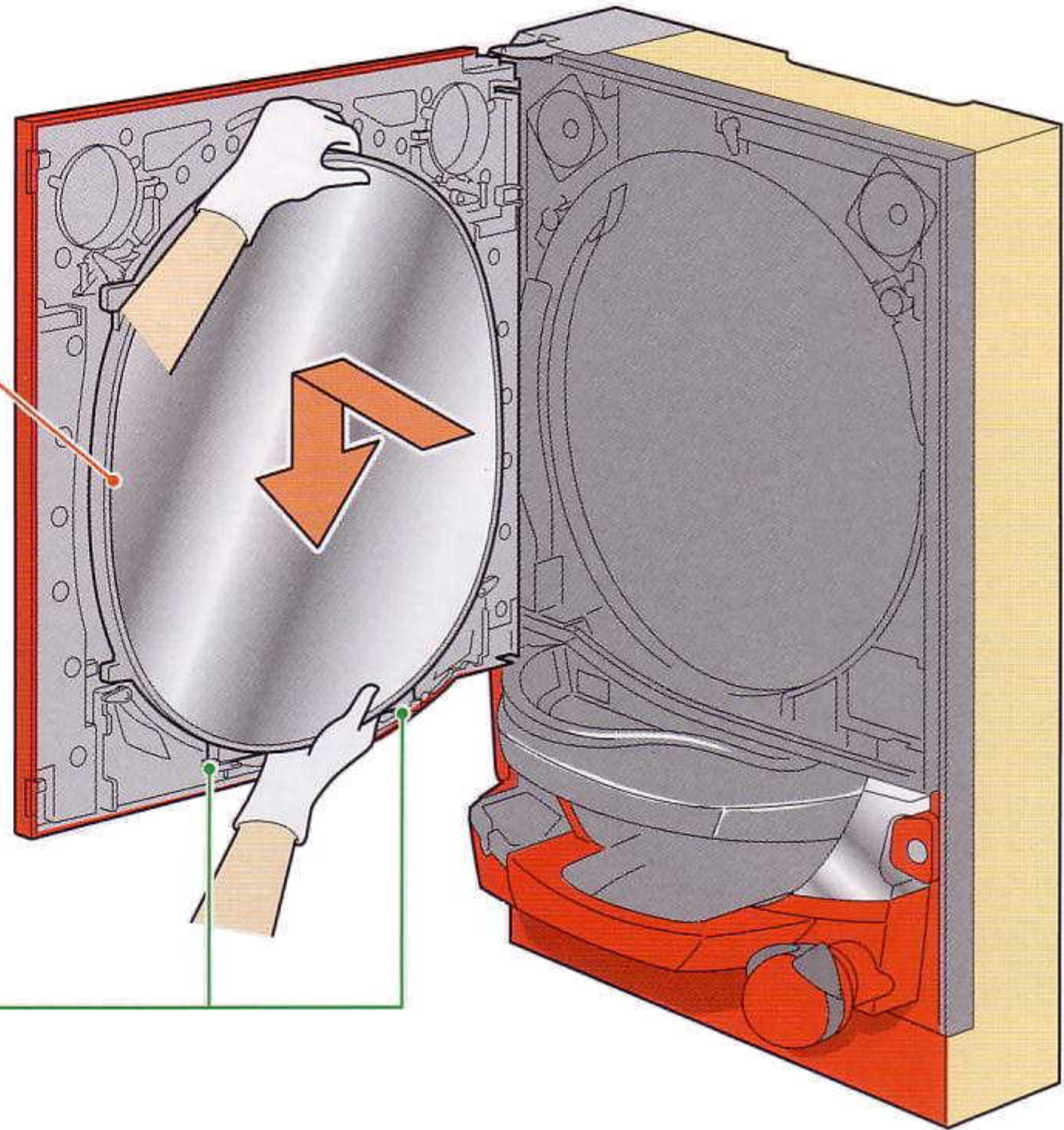
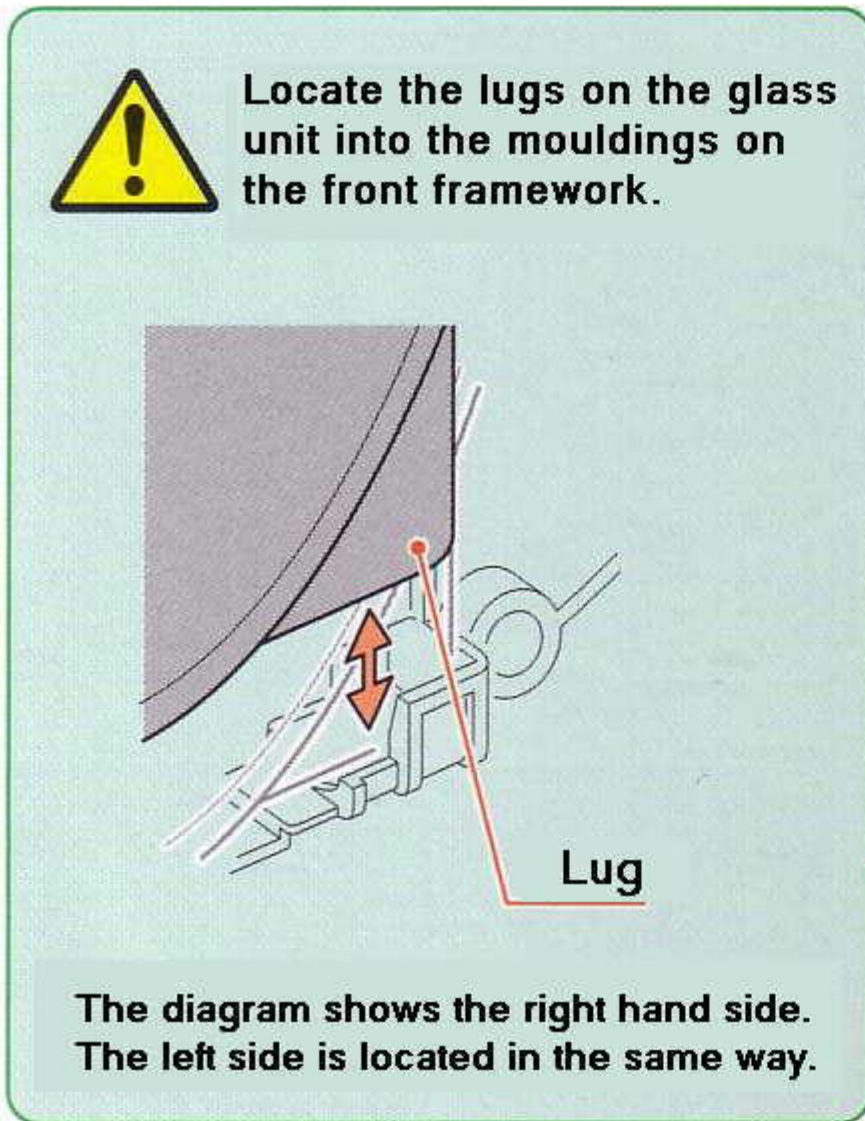
Upper Front Tray Section



Installation of Front Glass

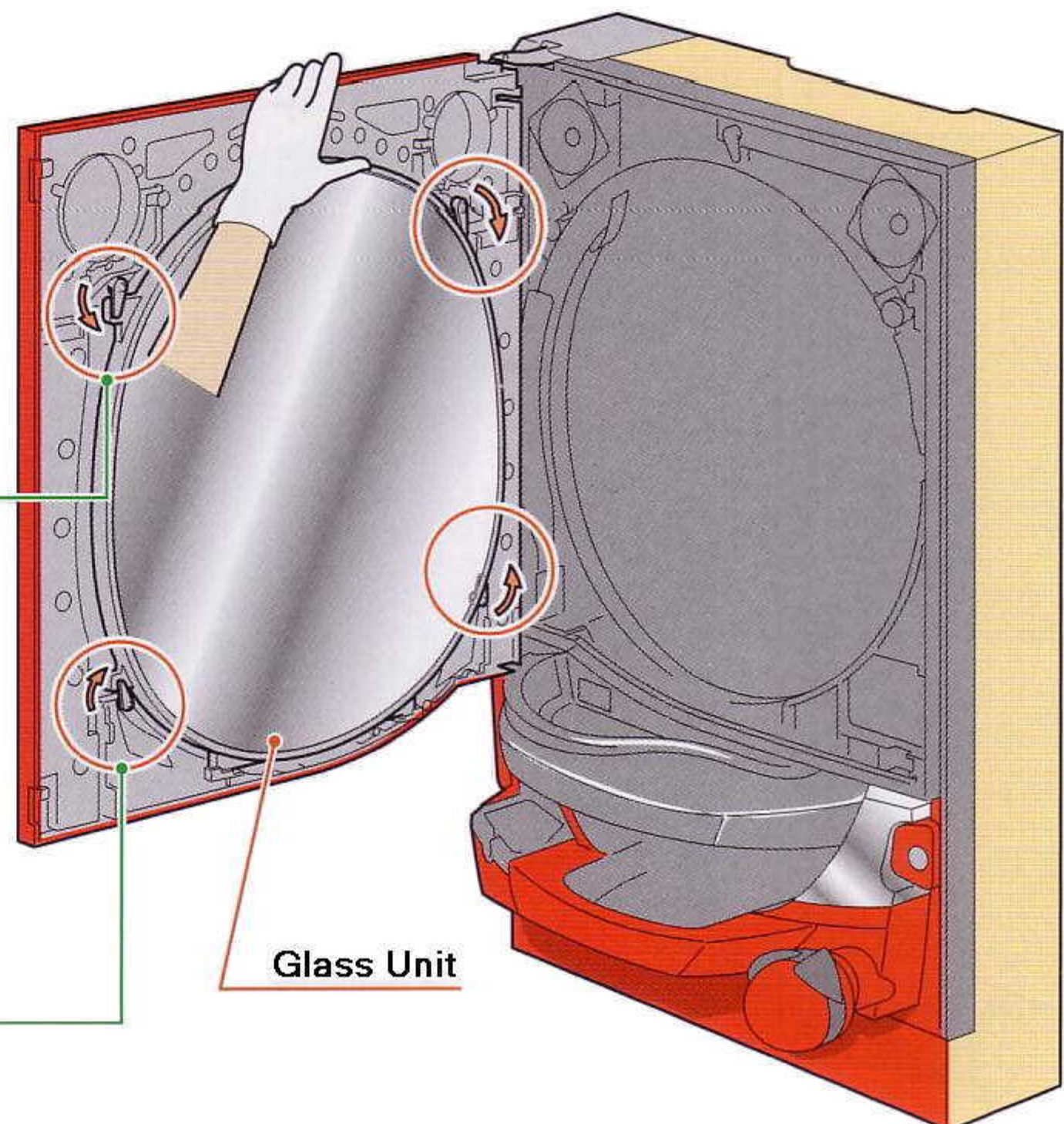
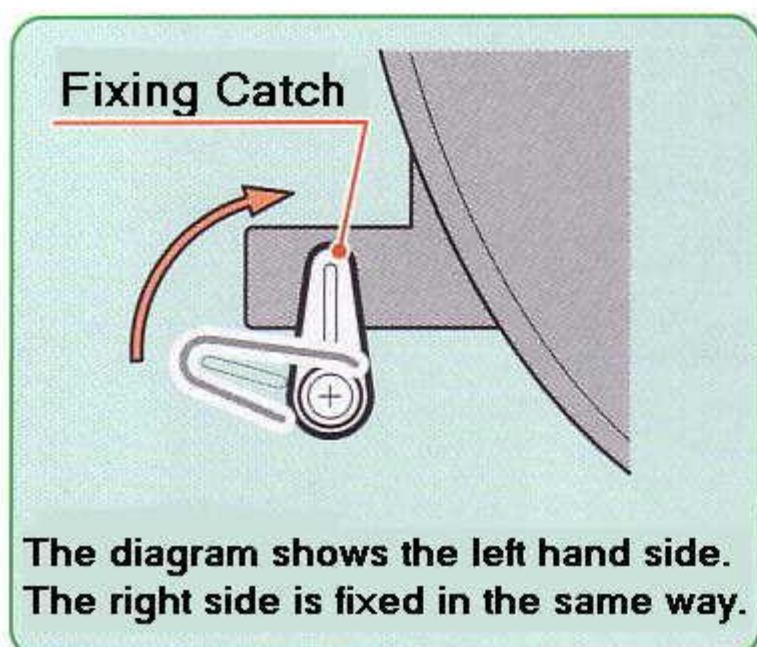
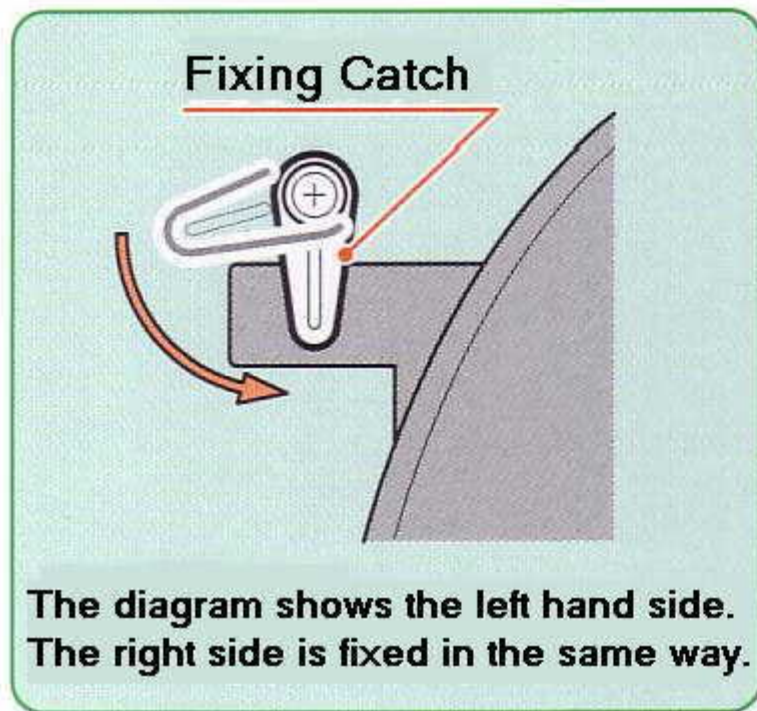
The front glass framework is opened (see page 8 for details) and the glass unit is positioned by hand.

Glass Unit



To ensure glass is not damaged, please take care while installing.

The four glass fixing catches are rotated in the direction shown by the arrows to secure the glass.



Changing Light Bulbs



Before working on machine, always turn off at power switch and remove plug.



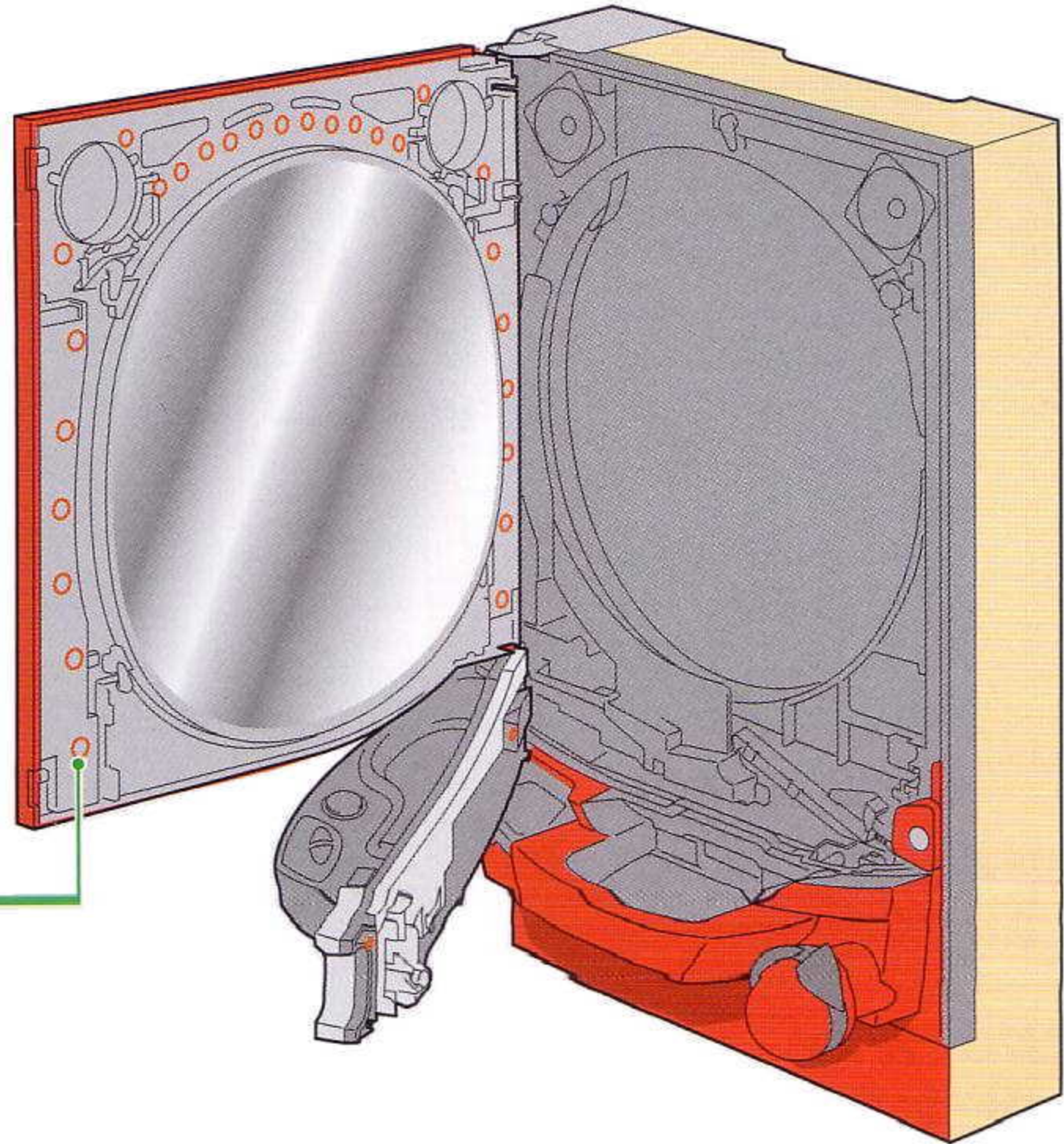
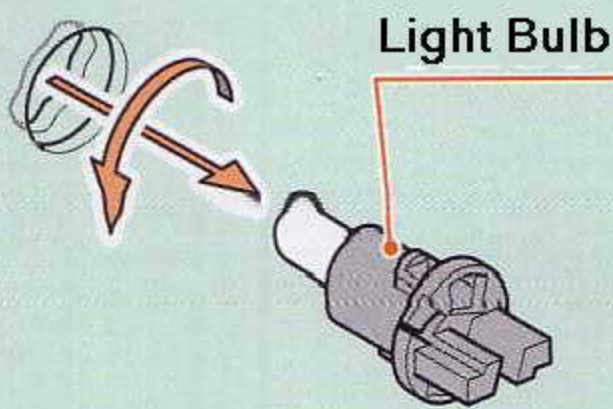
Lamps may become hot in use, always allow time to cool before handling.

The front glass framework and upper front tray are opened. (see pages 8 and 9 for details).

Remove the lamps by rotating in the direction of the arrow.

The position of the lamps is indicated by the red circles in the diagram to the right.

Replacement lamp part numbers are shown in the parts list (see page 45 for details).



Removing Shooter Unit and Handle



Before working on machine, always turn off at power switch and remove plug.

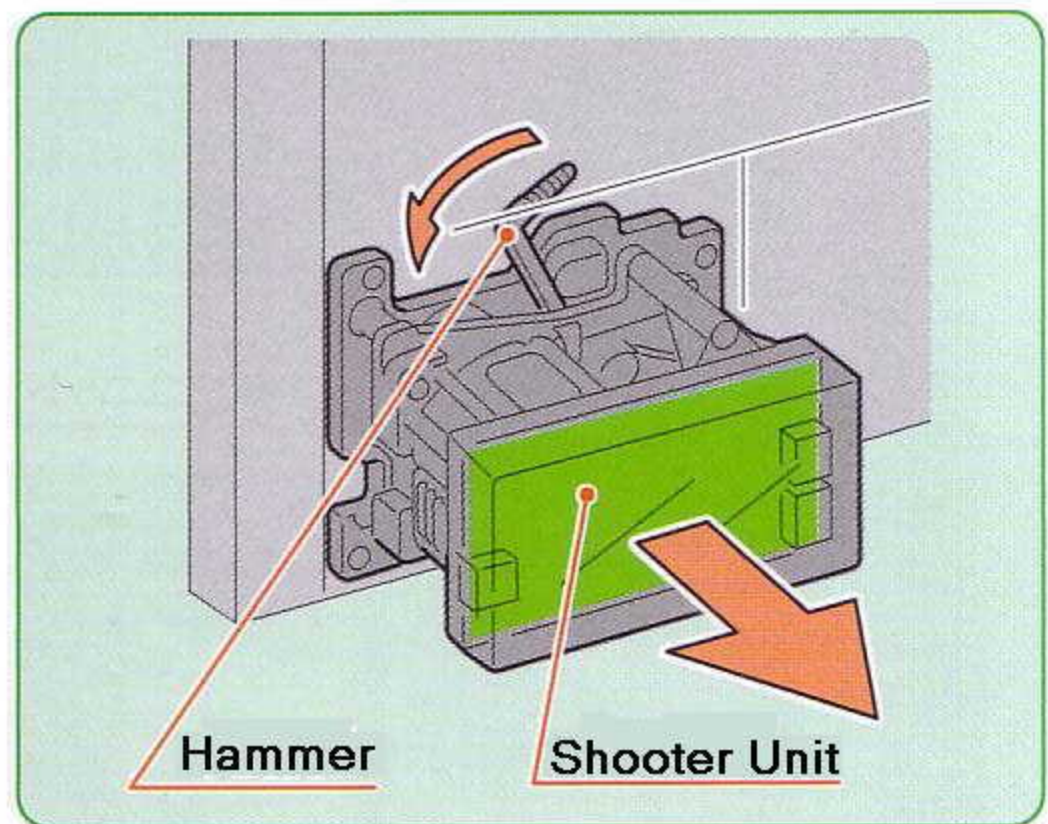
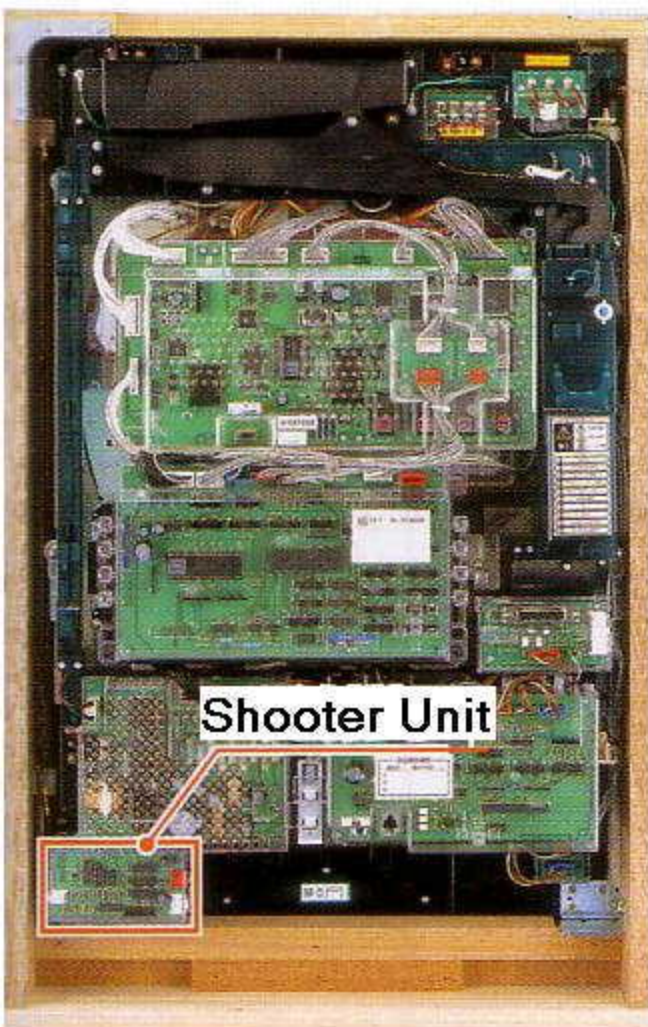


Mechanism may become hot in use, always allow time to cool before handling.

Remove the two connectors and four screws.

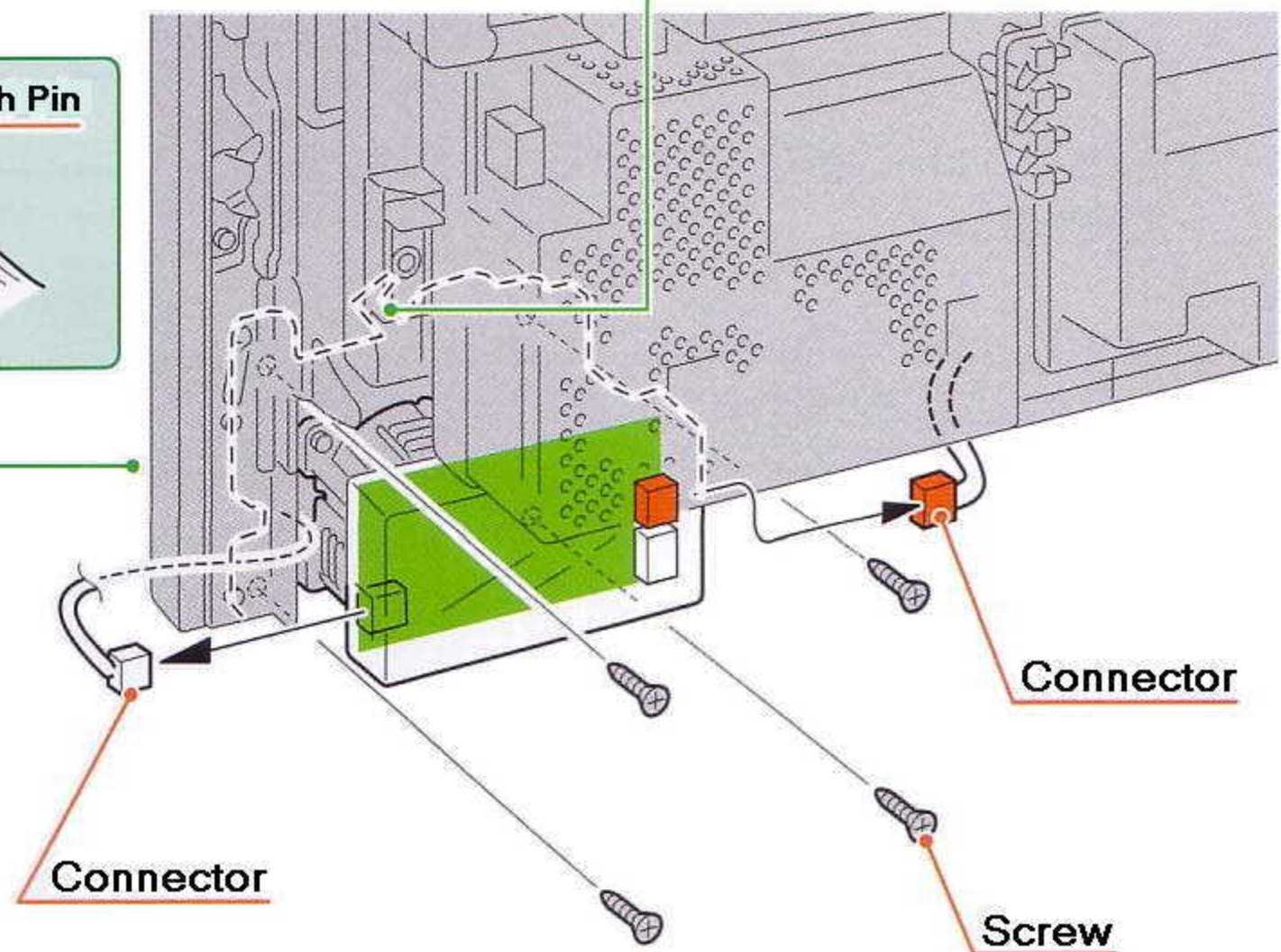
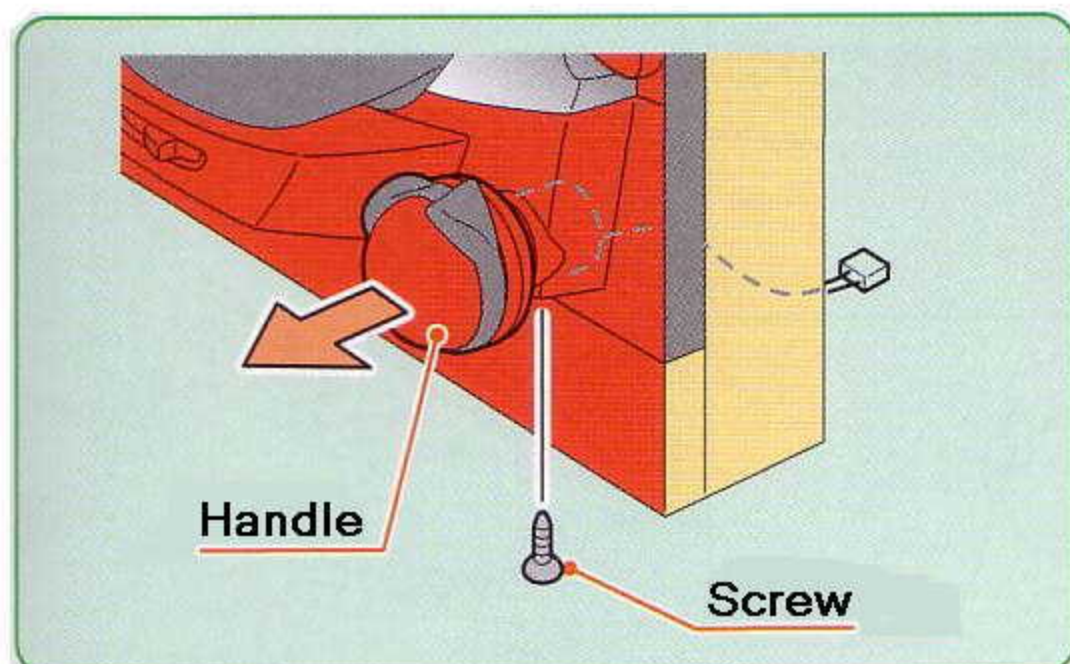
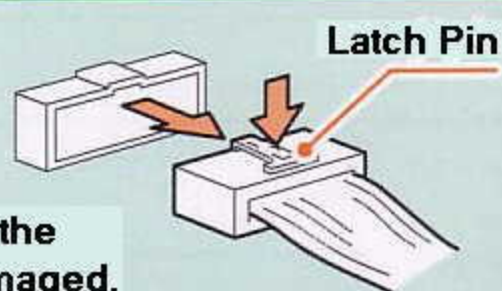
Move the launch hammer in the direction of the arrow and remove the shooter unit.

Remove the screw and pull out the handle

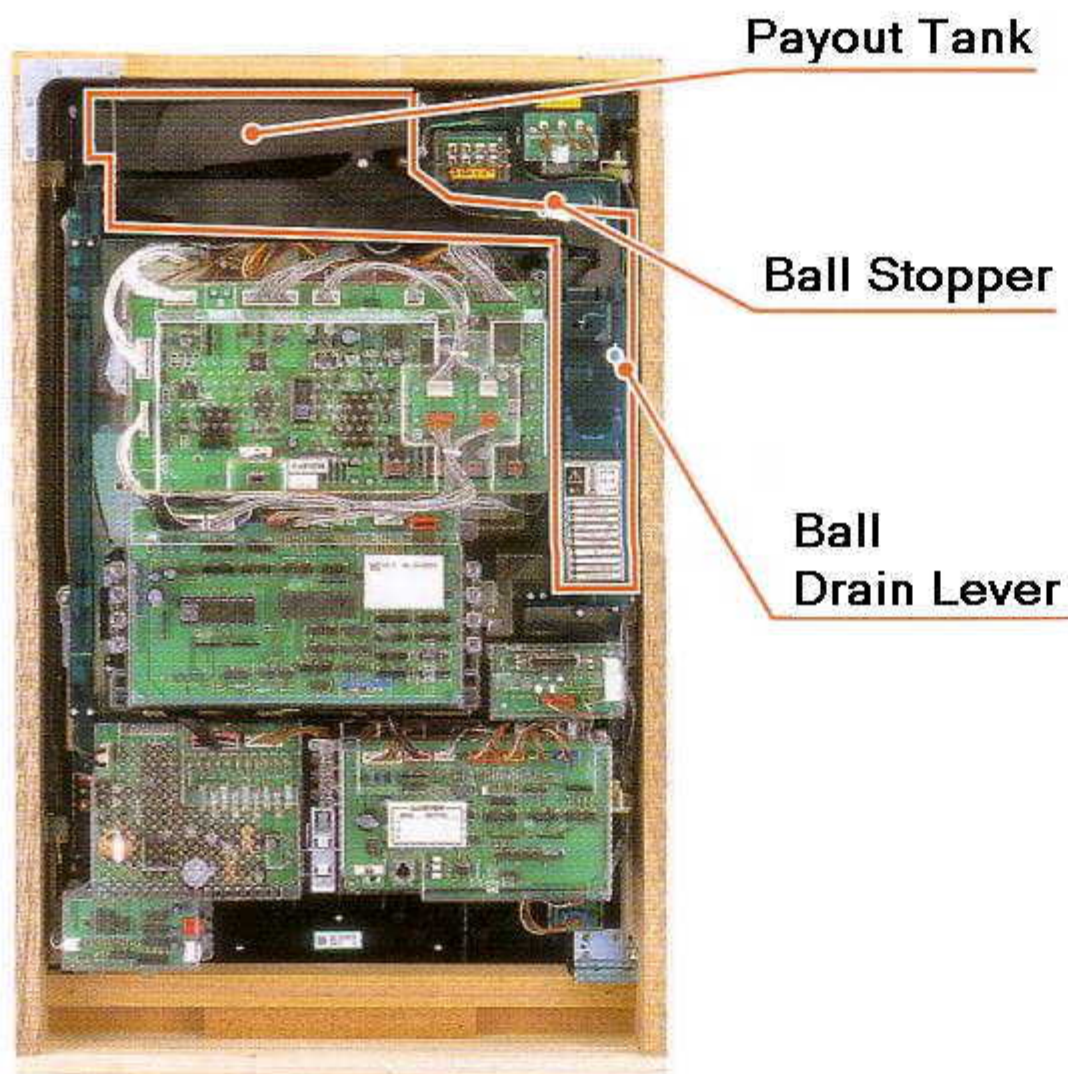


The connectors are of a latching type. Please hold in the latch pin whilst removing connector.

If removed with unreasonable force, the cable, connector or PCB may be damaged.

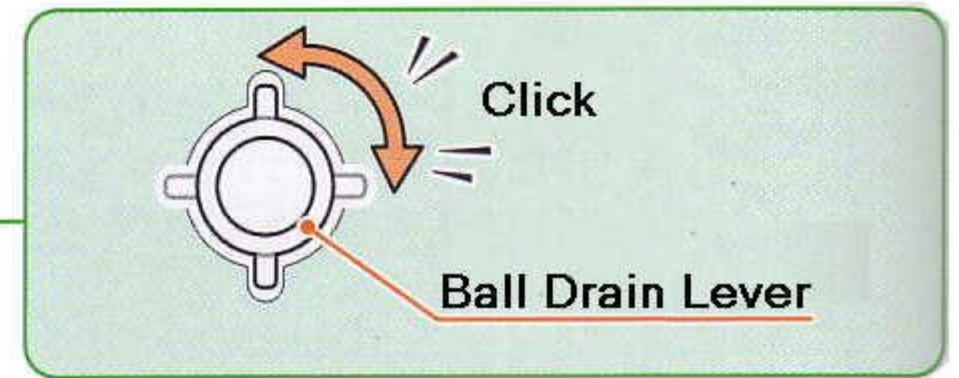
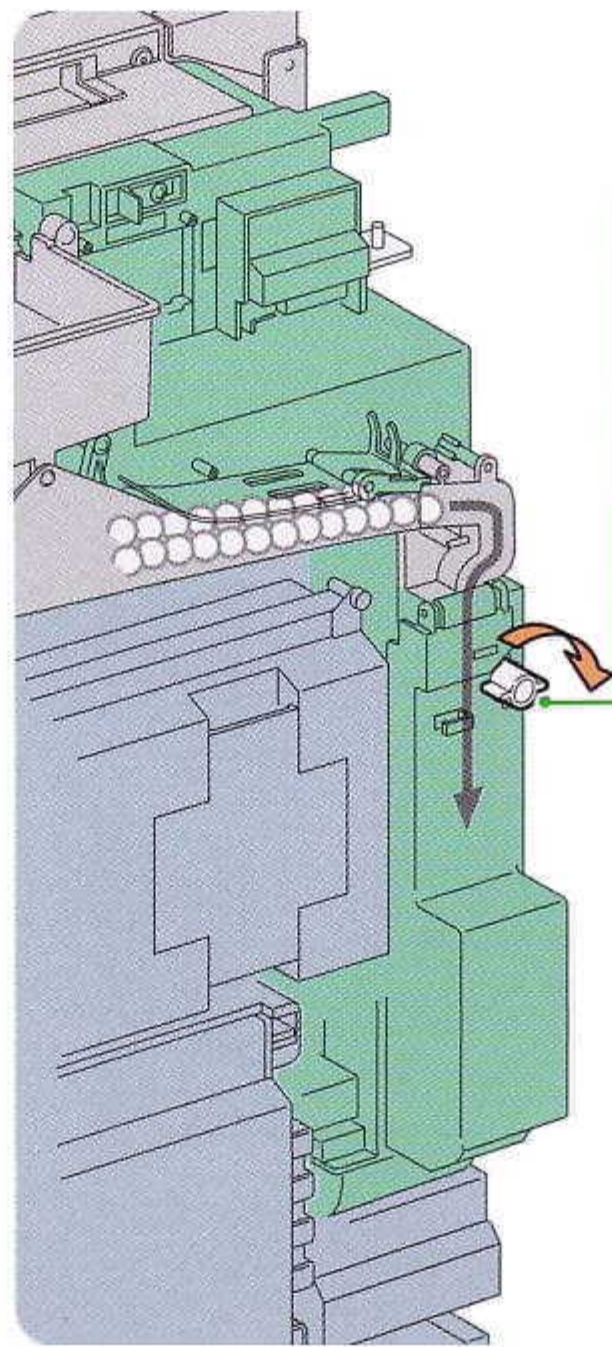


Emptying Payout Tank

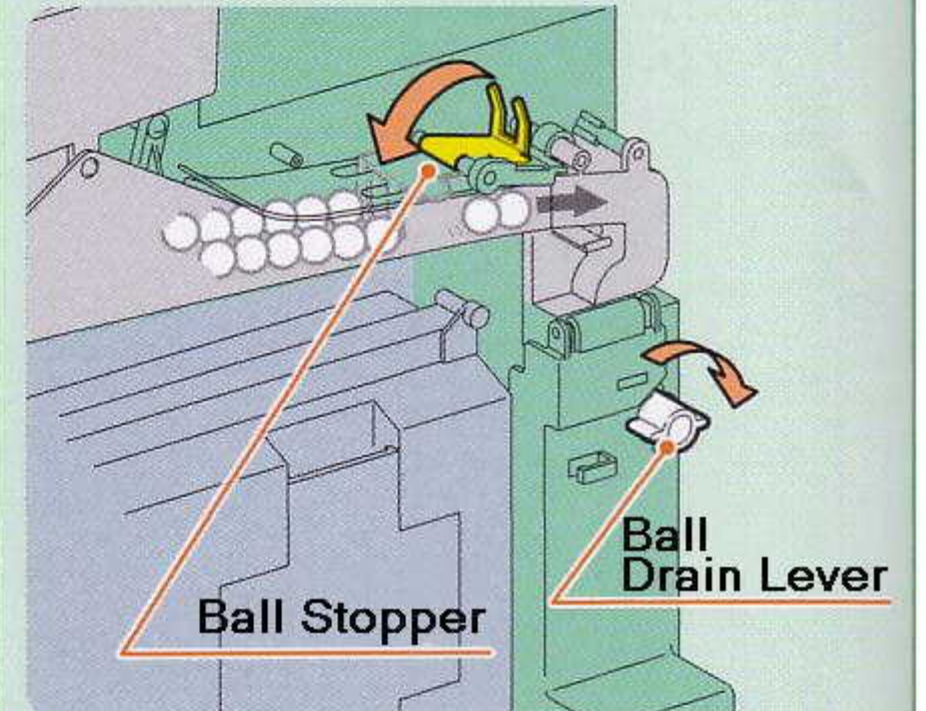


Please turn ball drain lever to the right to drain balls from the payout tank.

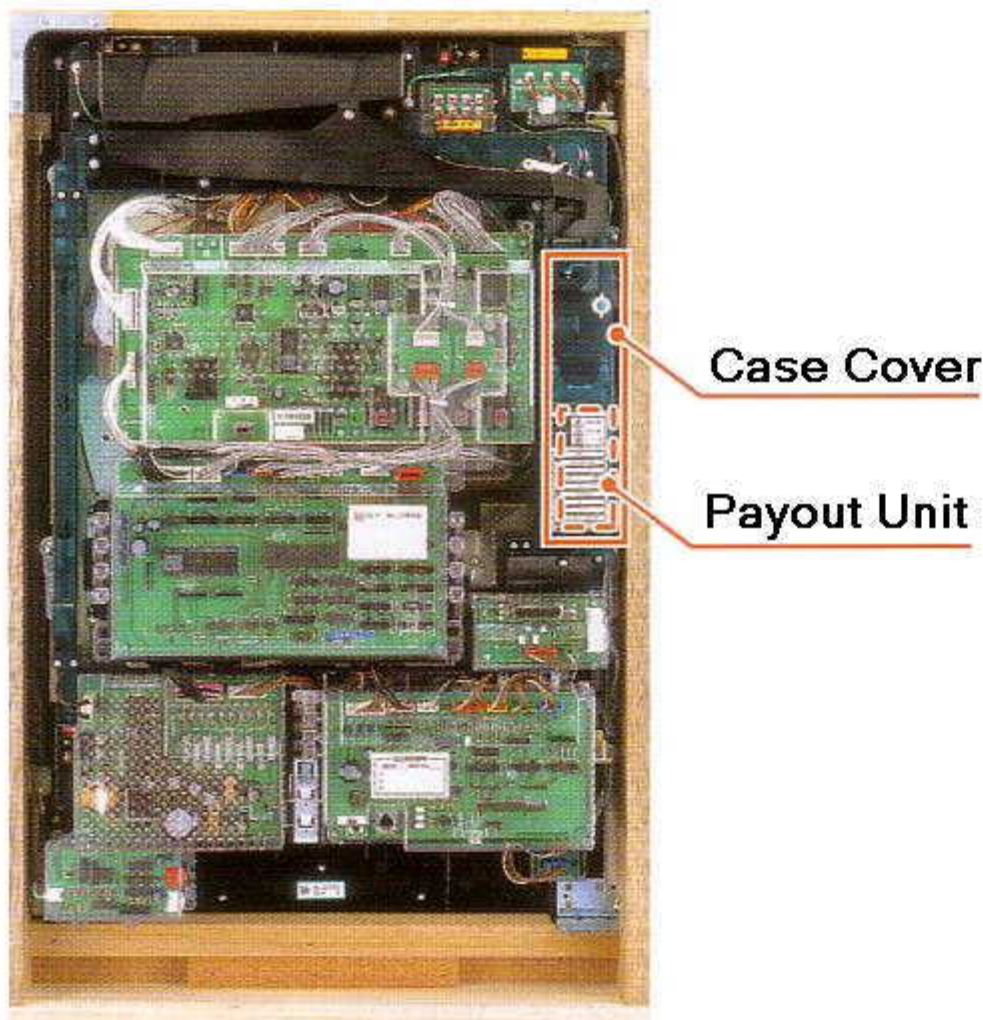
Once balls have finished draining, rotate the ball drain lever to the left until a 'click' sound is heard.



When ball stopper is turned in the direction of the arrow, ball supply is cut off. This allows the payout unit or tank empty switch to be changed without draining the tank.



Removing Payout Unit



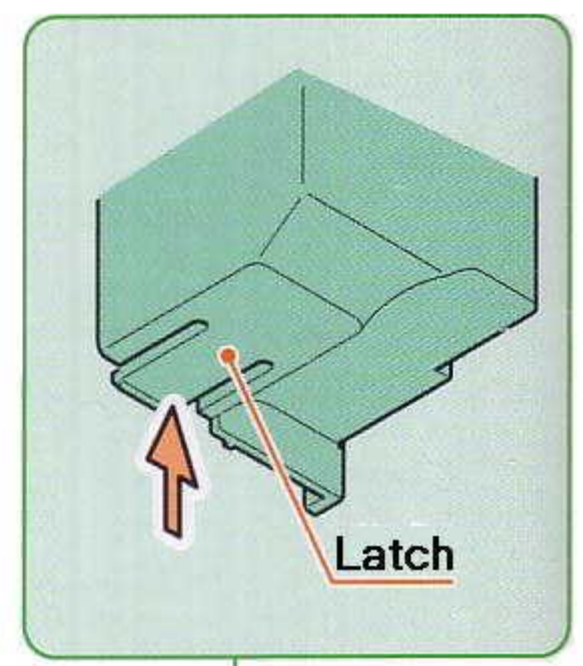
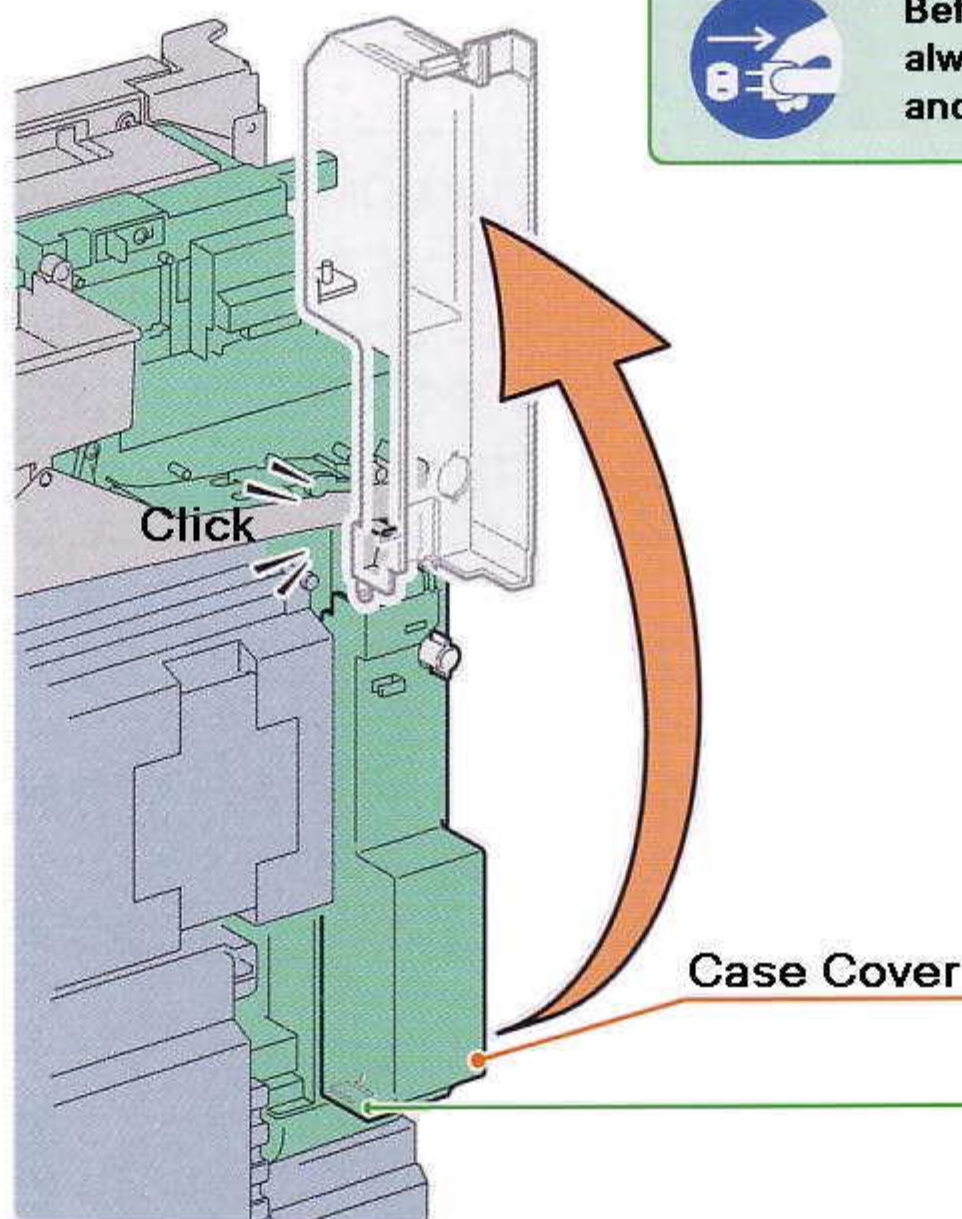
While pushing the latch, the case cover can be swung upward until it latches in the up position.

The payout unit connector can now be removed.

While pressing the latch lever the payout unit can be slid to the right and removed.

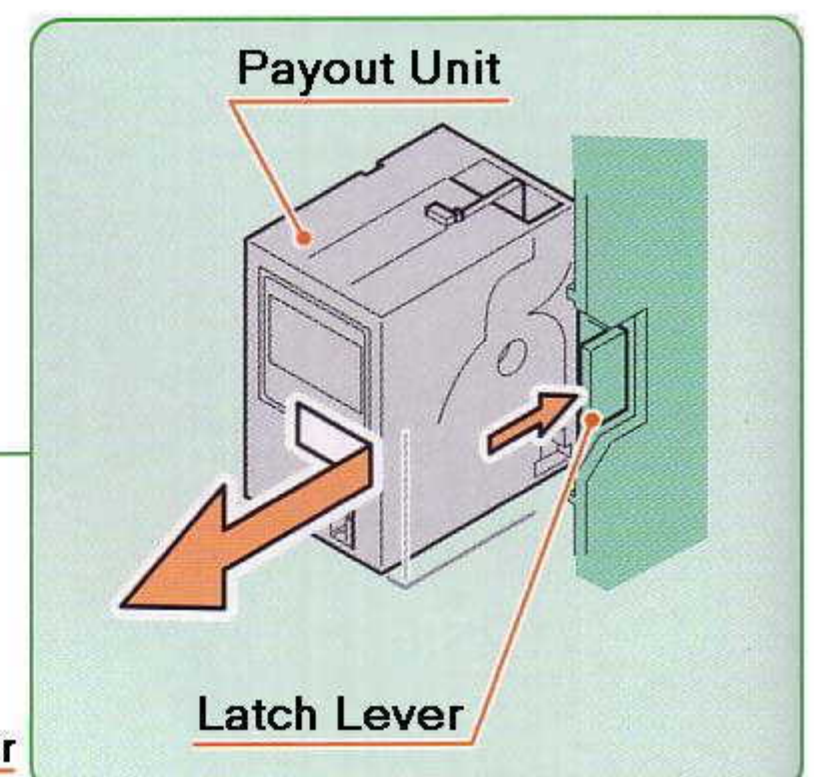
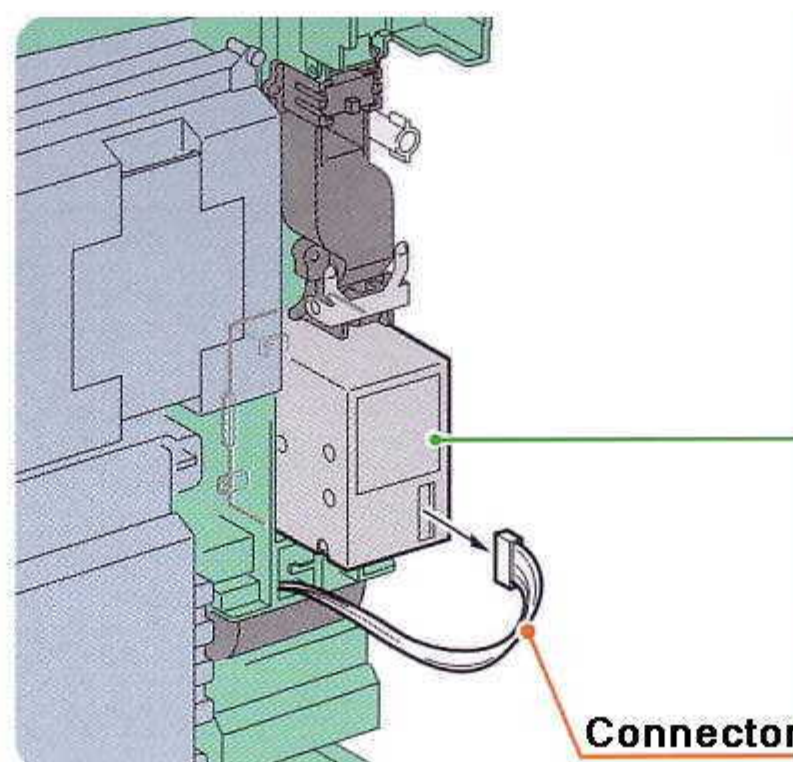
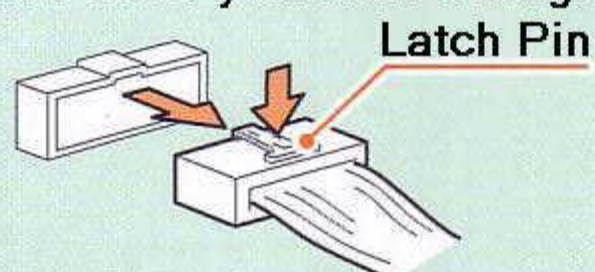


Before working on machine, always turn off at power switch and remove plug

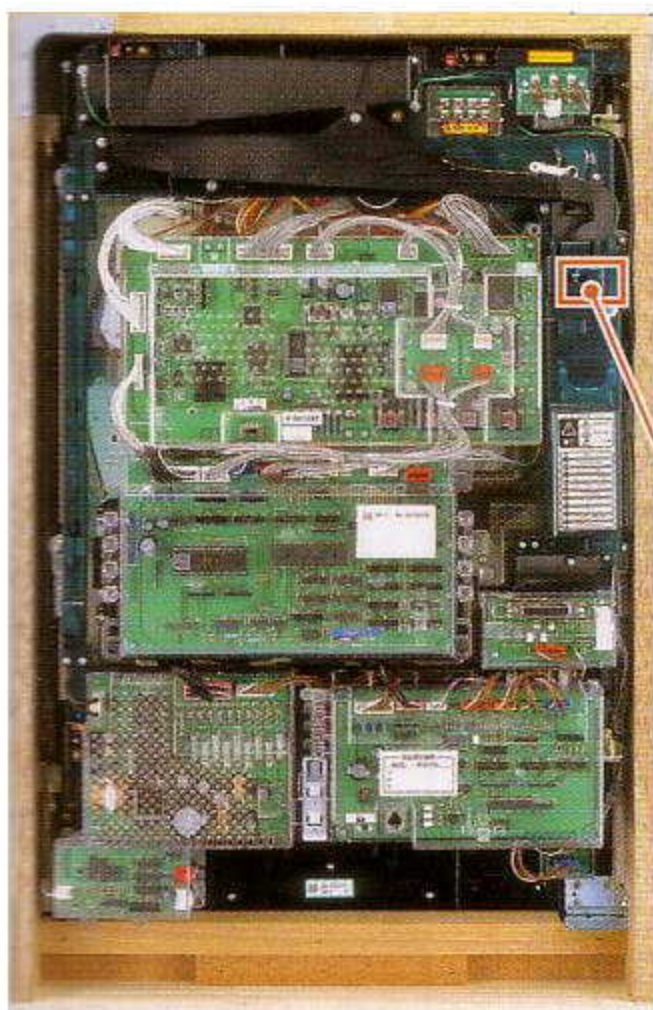


The connectors are of a latching type. Please hold in the latch pin whilst removing connector.

If removed with unreasonable force the cable, connector or PCB may become damaged.



Removing Payout Tank Empty Switch



Payout Tank Empty Switch

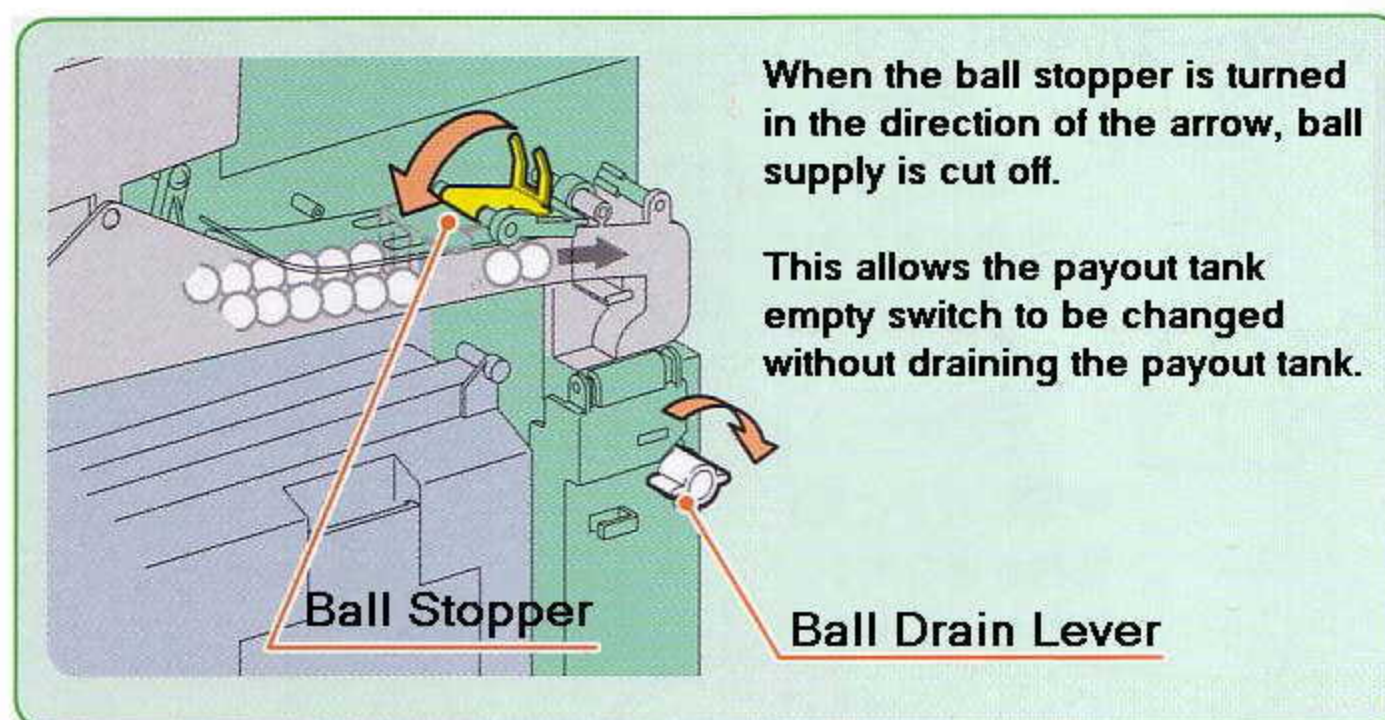
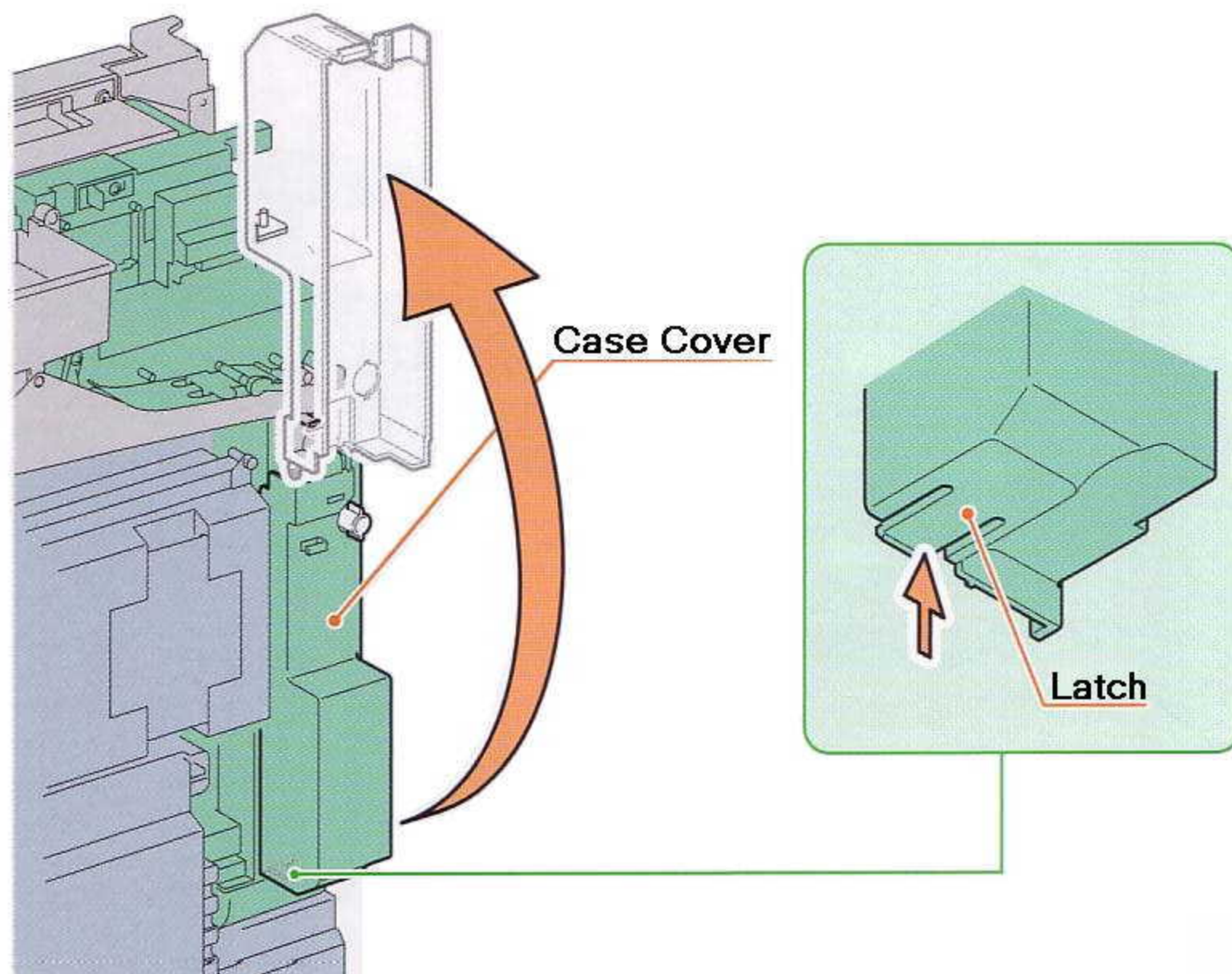


Before working on machine, always turn off at power switch and remove plug.

Use the ball stopper to cut off ball supply from payout tank.

Open the case cover and latch it in a raised position.

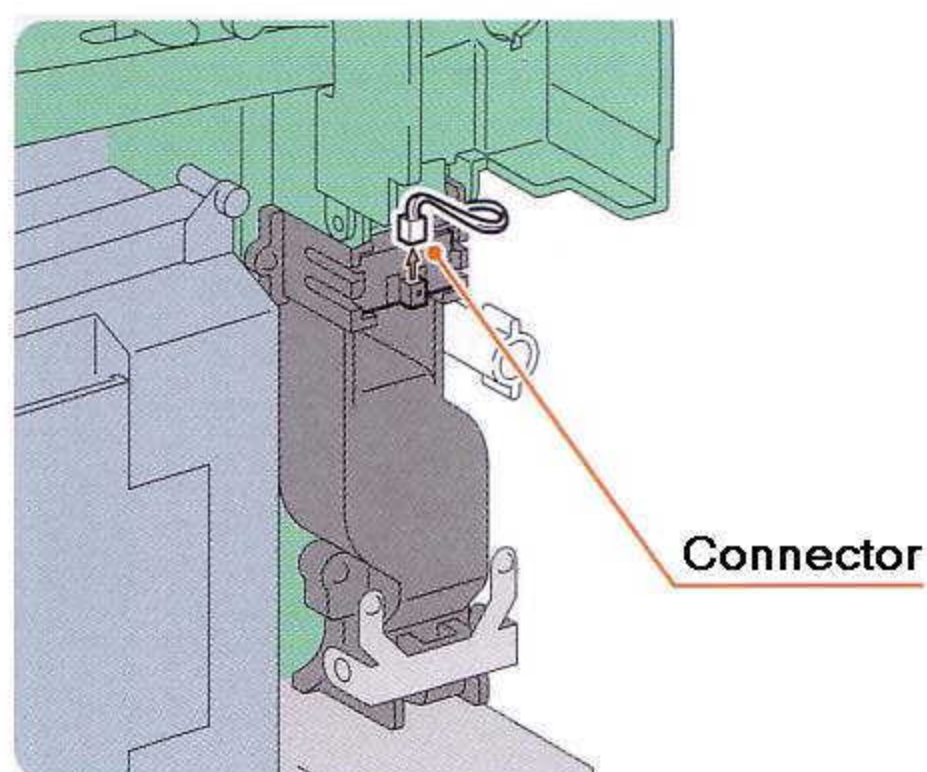
Rotate the ball drain lever to the right to empty remaining balls in the payout unit and payout tank empty switch area.



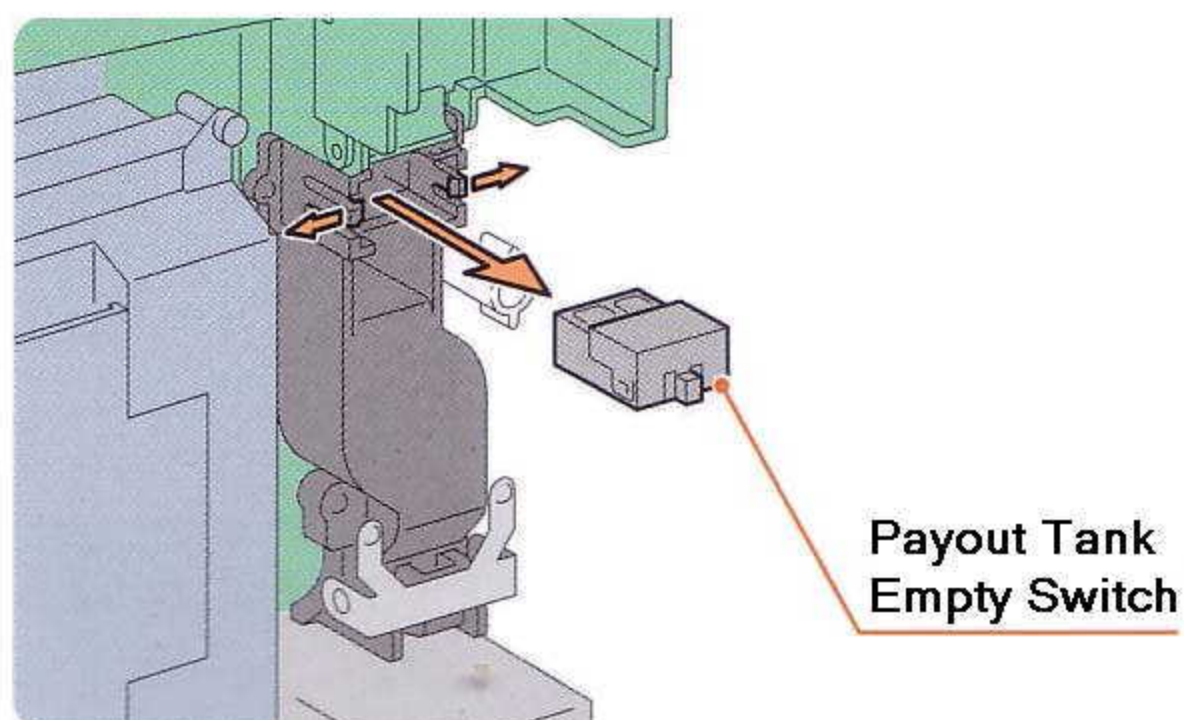
When the ball stopper is turned in the direction of the arrow, ball supply is cut off.

This allows the payout tank empty switch to be changed without draining the payout tank.


Remove the connector from the payout tank empty switch.

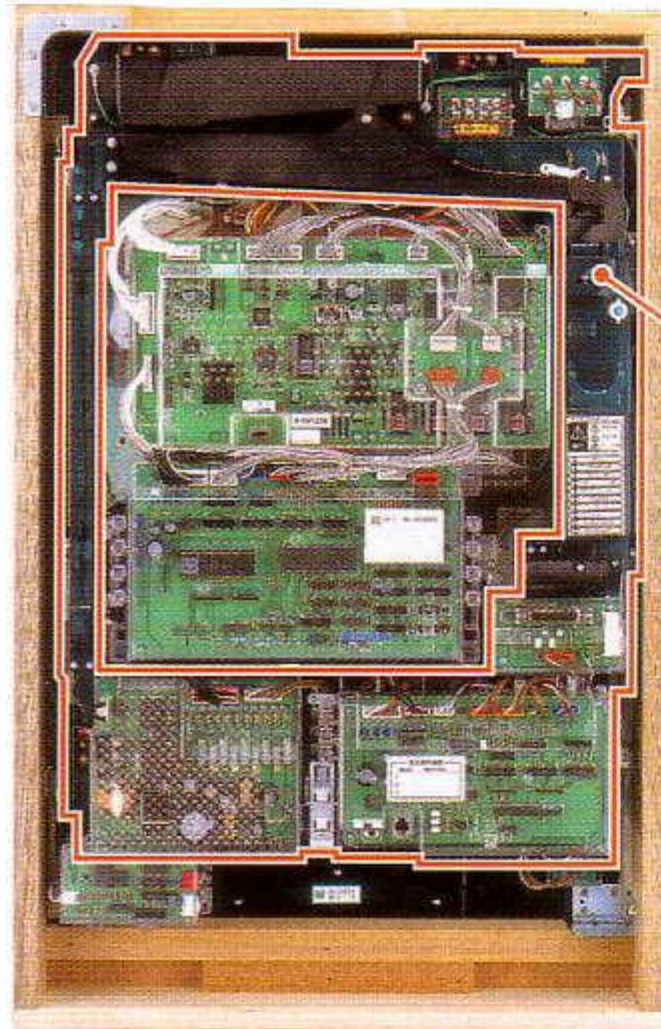


Release the clips on the left and right and remove the payout tank empty switch by pulling forward.



Removing Sun Pack

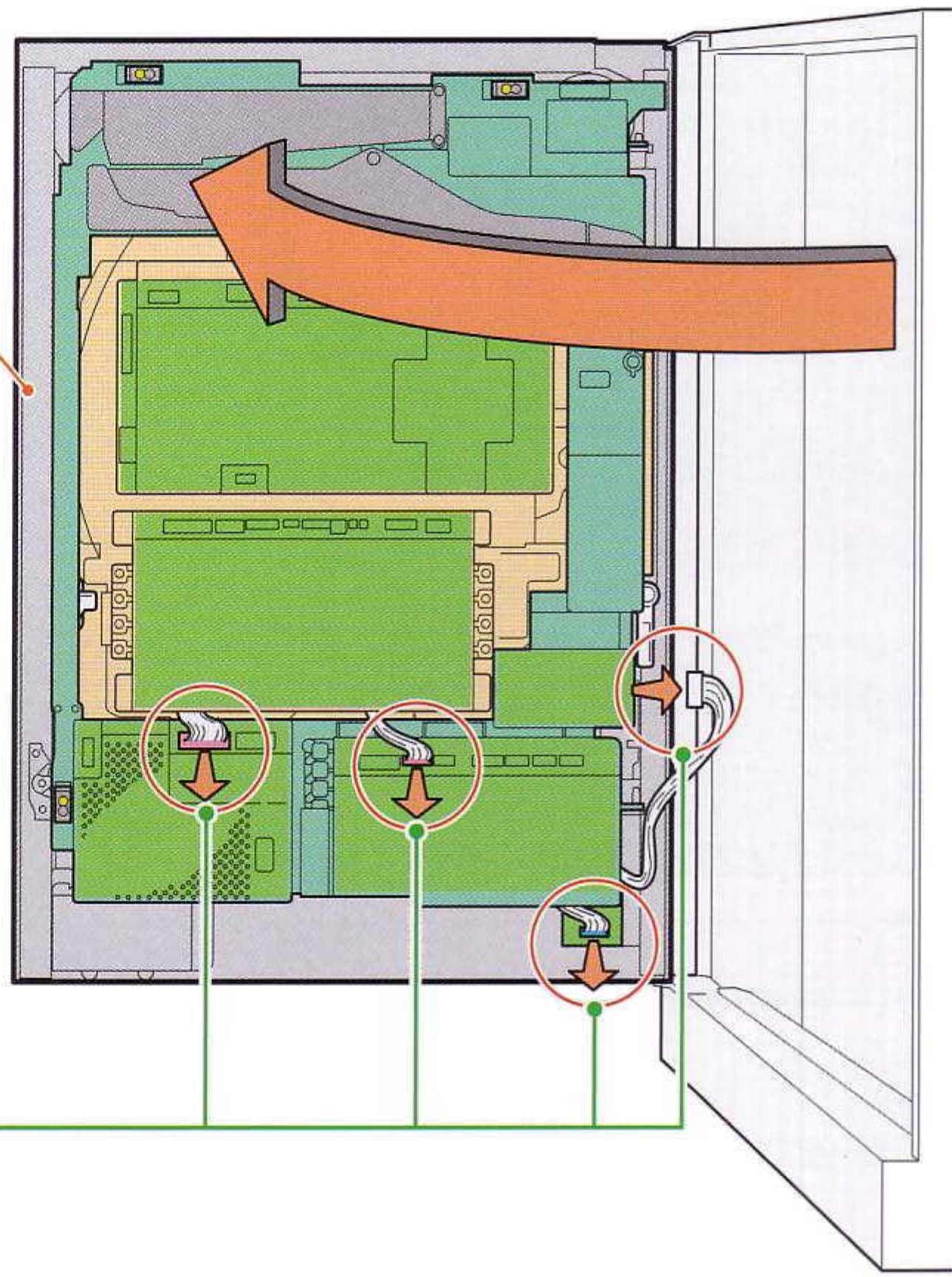
 Before working on machine, always turn off at power switch and remove plug.




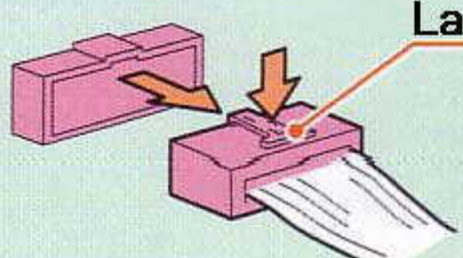
Sun Pack

Front Framework

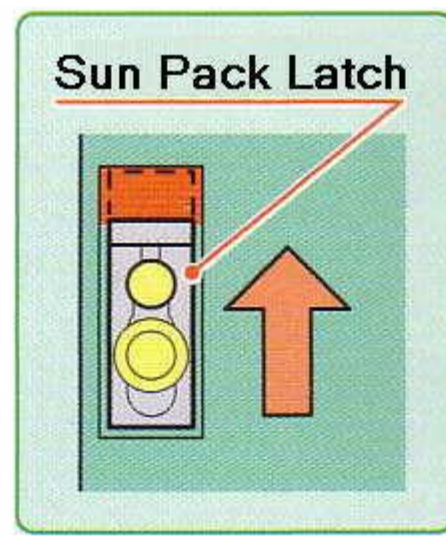
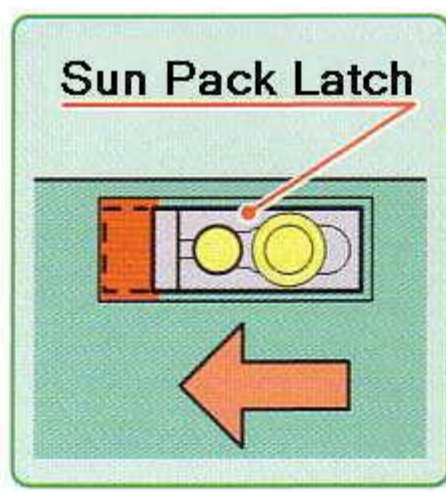
- The front framework is opened (see page 8 for details).
- The AC cord and ground line are disconnected.
- Any connections to the cell external output terminals are removed.
- The four connectors shown by the red circles in the diagram are removed.



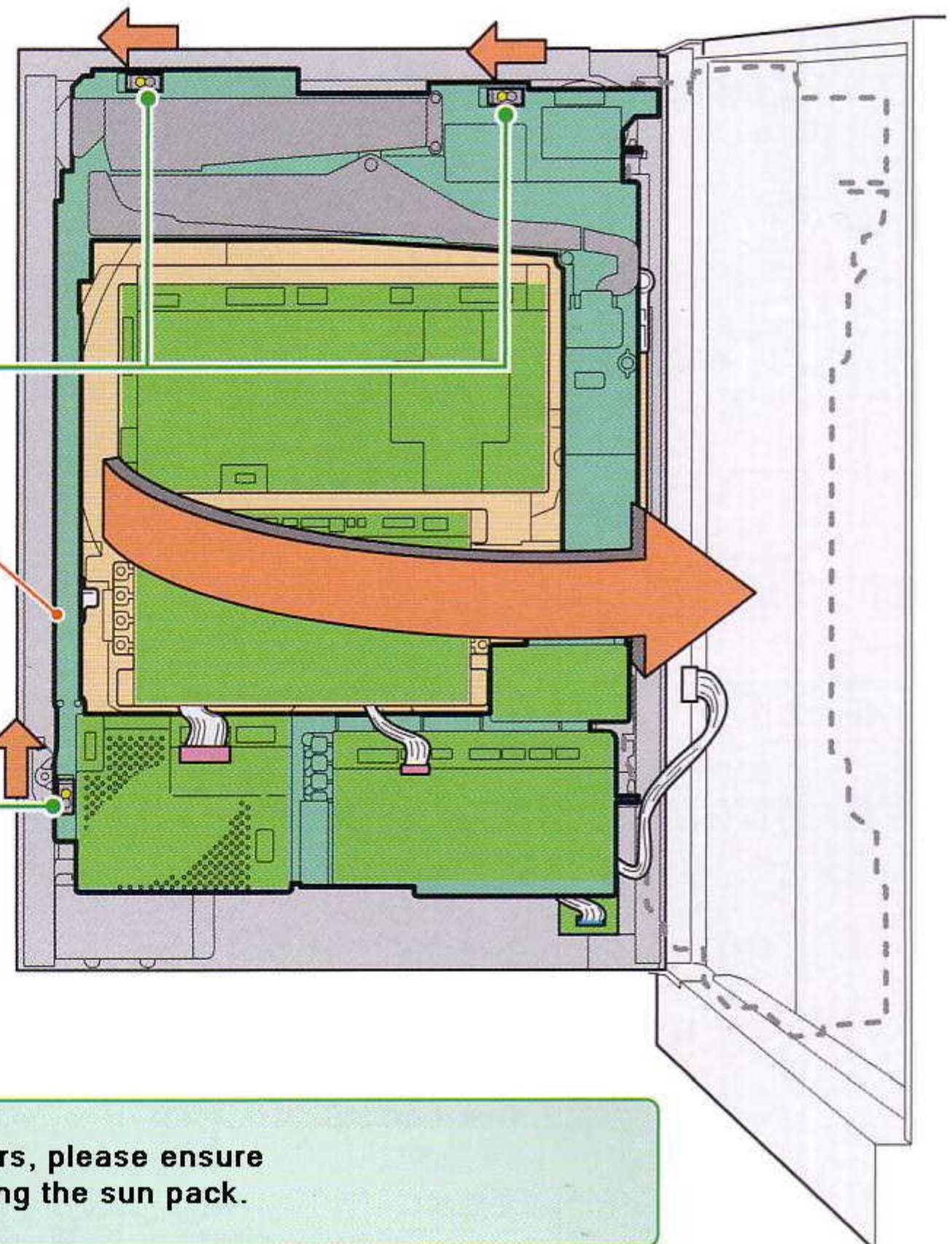
 The connectors are of a latching type. Please hold in the latch pin whilst removing connector. If removed with unreasonable force the cable, connector or PCB may become damaged.


 Latch Pin

- Move the three sun pack latches in the direction of the arrows.
- Pull the left hand side of the sun pack forward to open the sun pack.

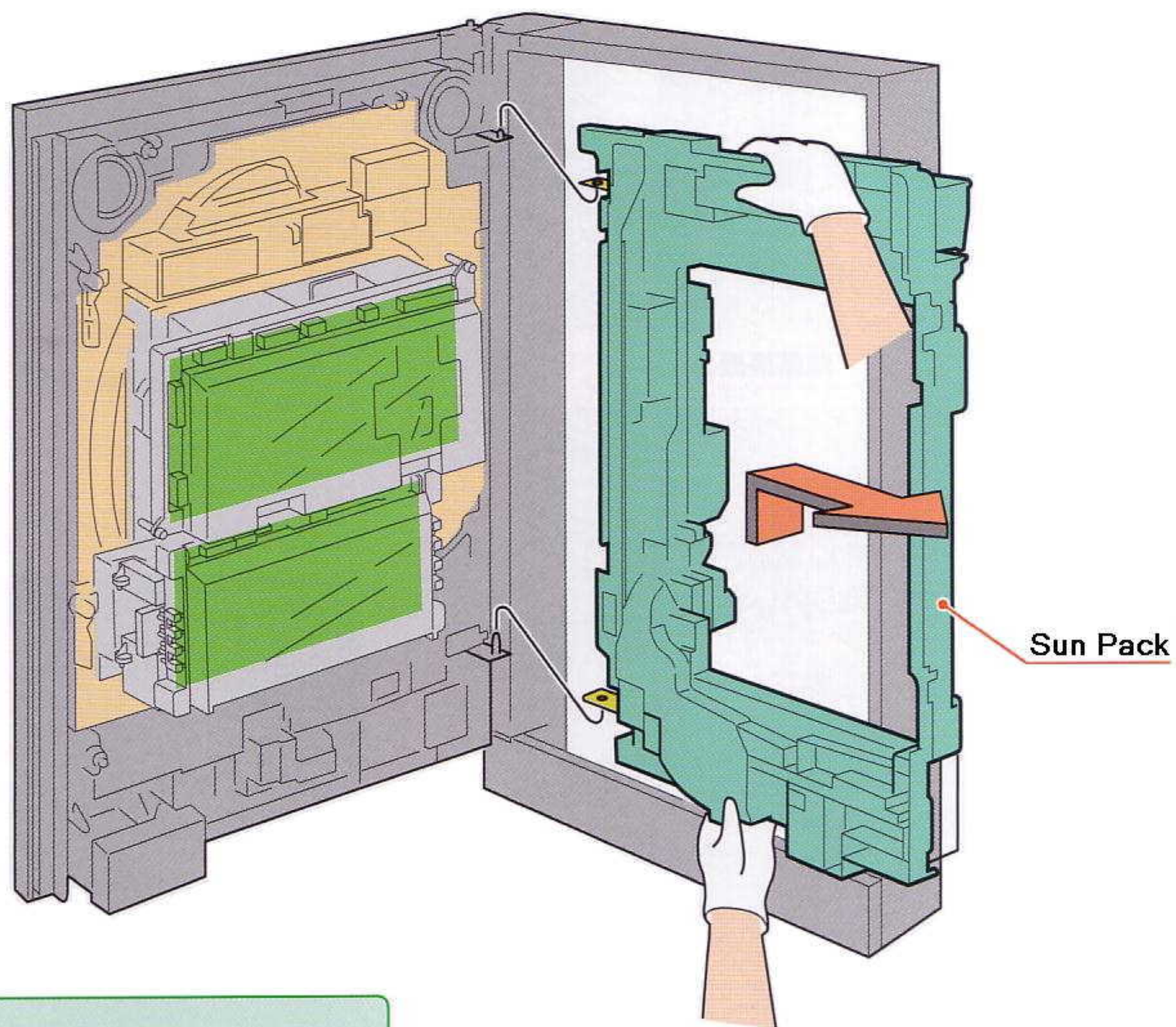


Sun Pack



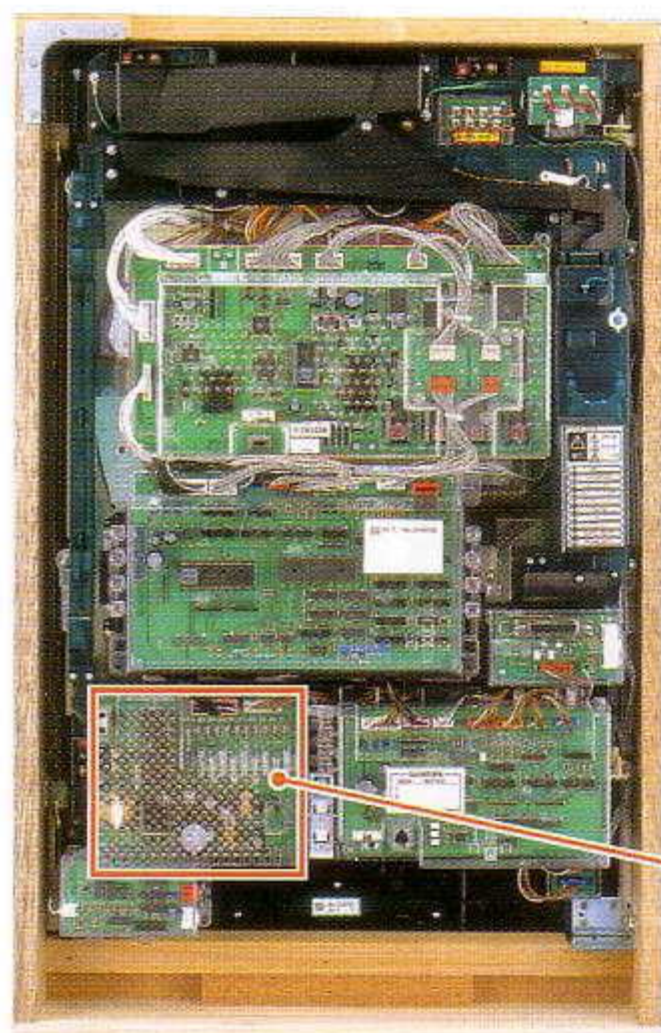
 To avoid damage to cables and connectors, please ensure they are not pulled or caught when opening the sun pack.

Open the sun pack and lift off the hinge pins.



Please be careful not to drop the sun pack while removing.

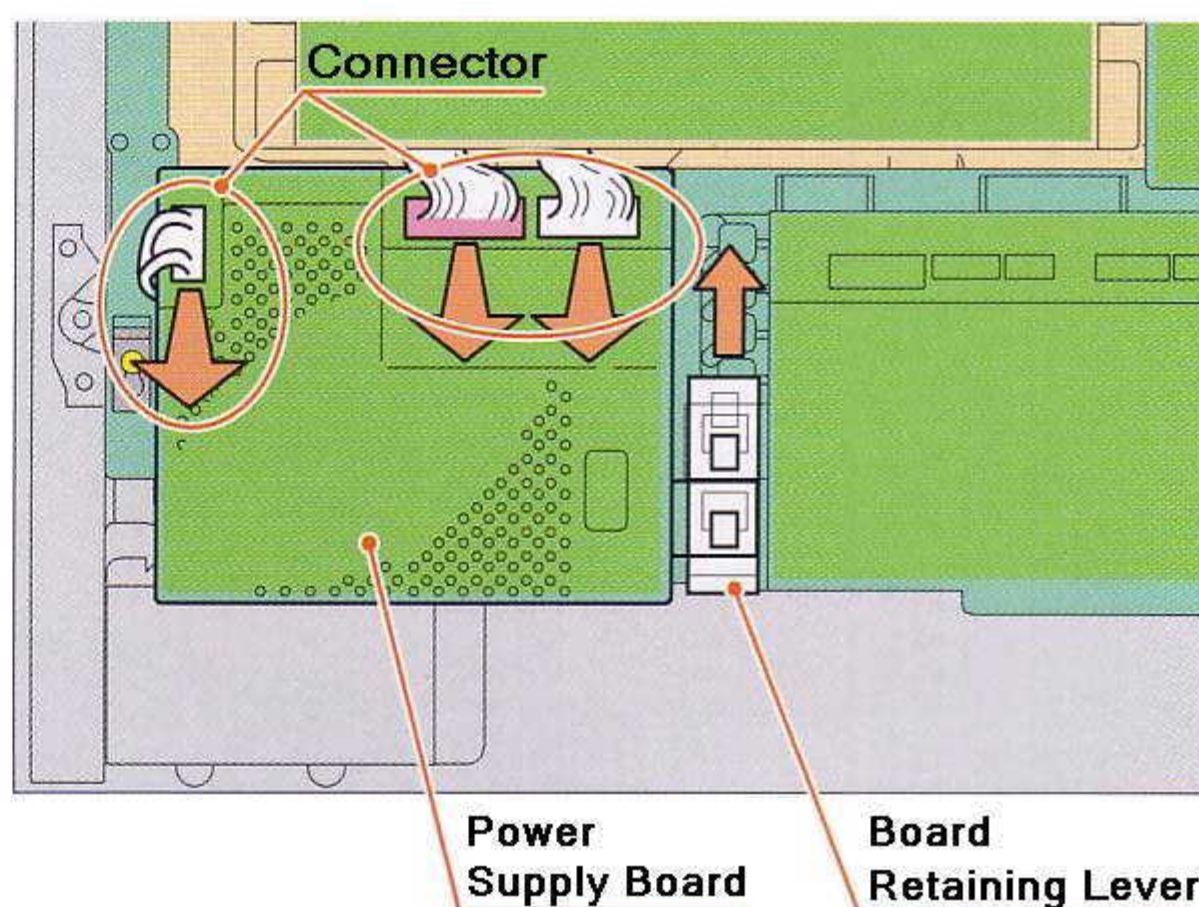
Removing Power Supply Board



Latch Pin

The connectors are of a latching type. Please hold in the latch pin whilst removing connector. If removed with unreasonable force the cable, connector or PCB may become damaged.

Power Supply Board

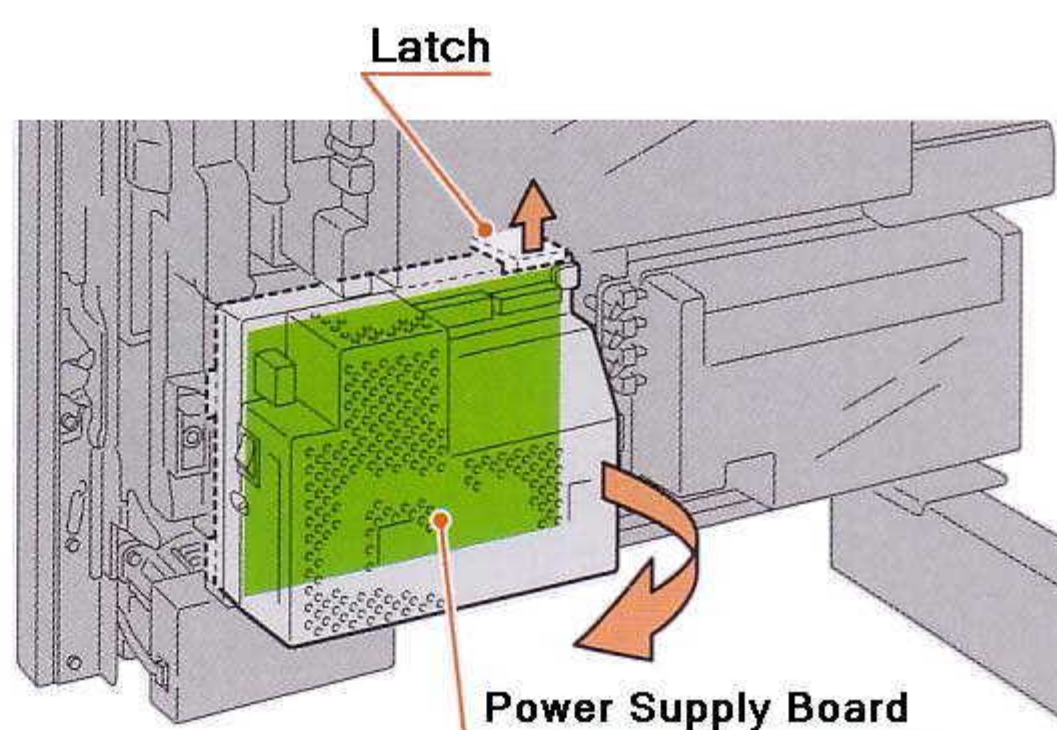


The front framework is opened (see page 8 for details), and all connectors are removed from the power supply board.

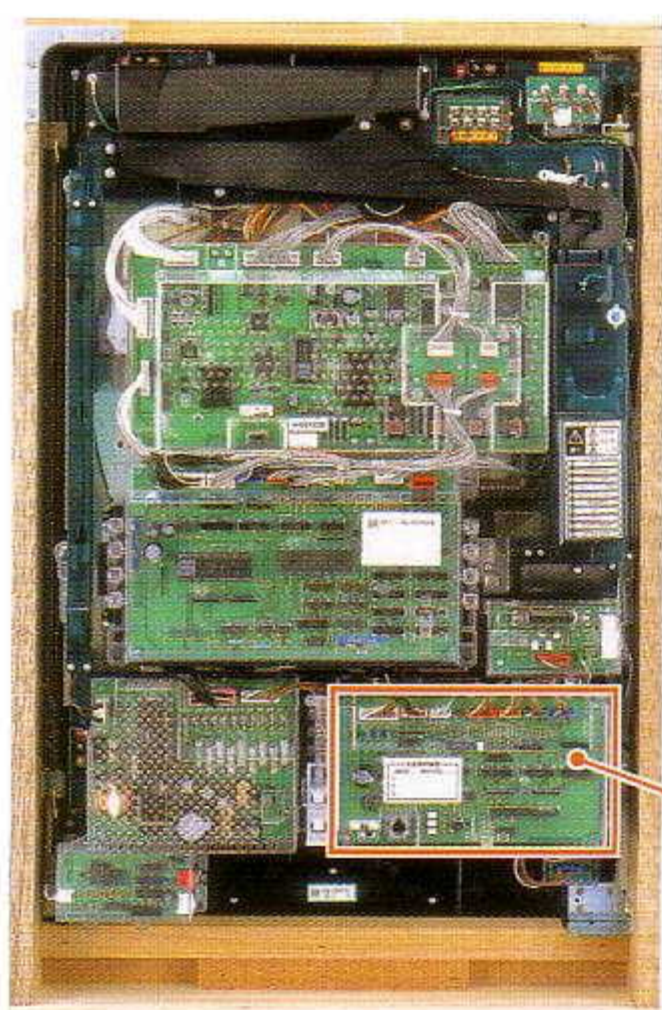
The board retaining lever is moved in the direction of the arrow.

Lift the latch and pull the right hand side of the power supply board out to remove it.

Before working on machine, always turn off at power switch and remove plug.



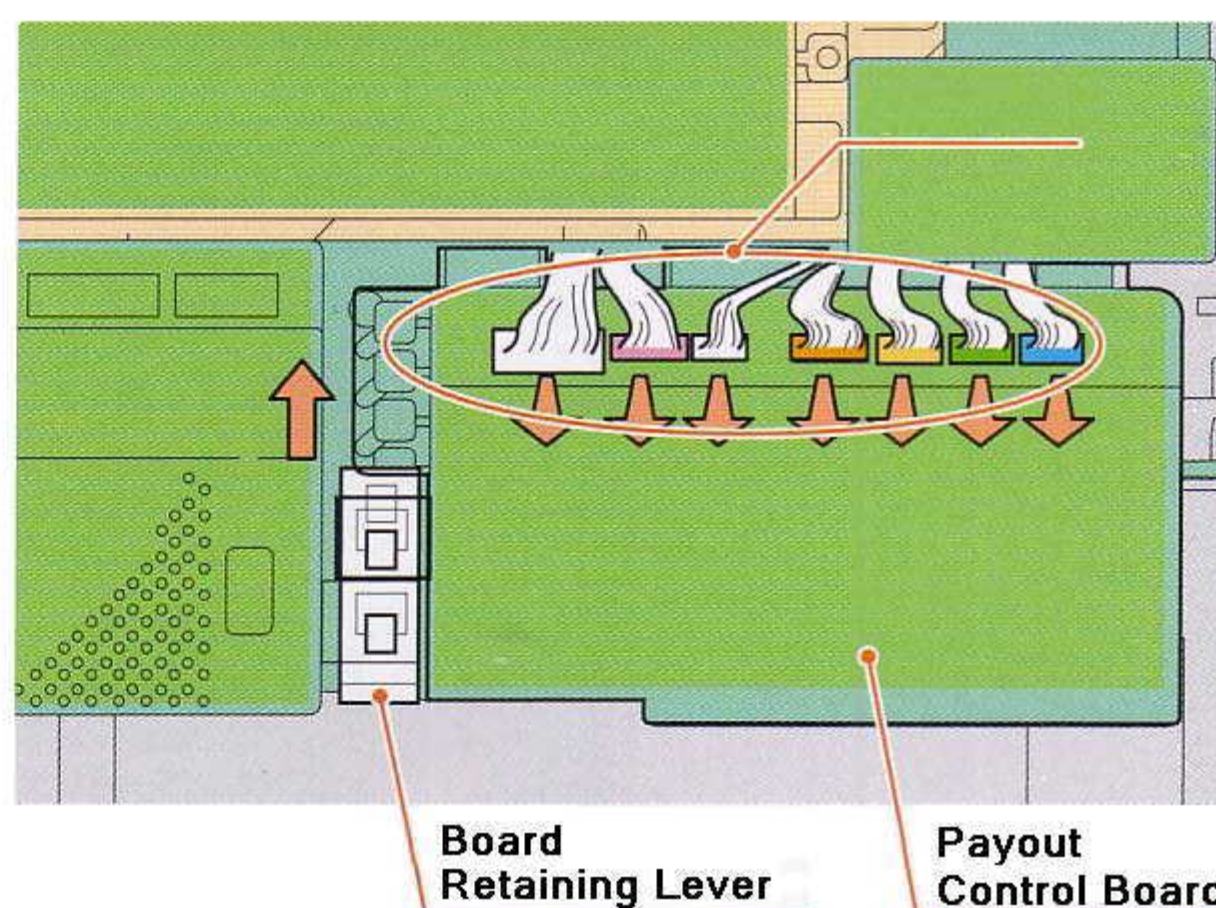
Removing Payout Control Board



Latch Pin

The connectors are of a latching type. Please hold in the latch pin whilst removing connector. If removed with unreasonable force the cable, connector or PCB may become damaged.

Payout Control Board

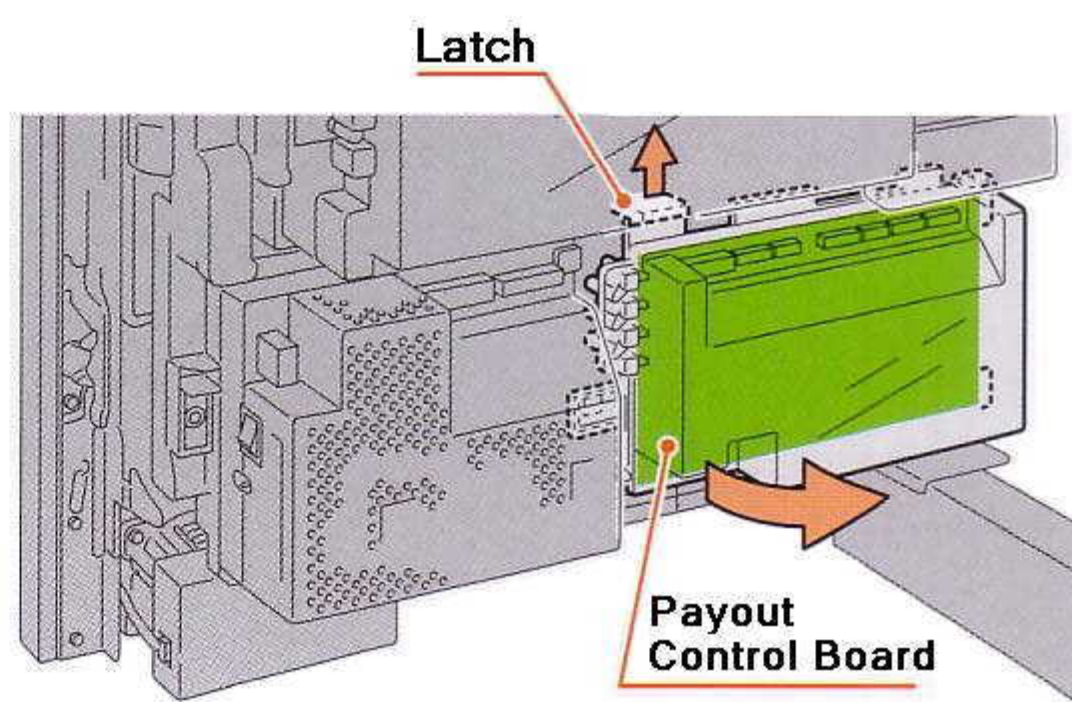


The front framework is opened (see page 8 for details), and all connectors are removed from the payout control board.

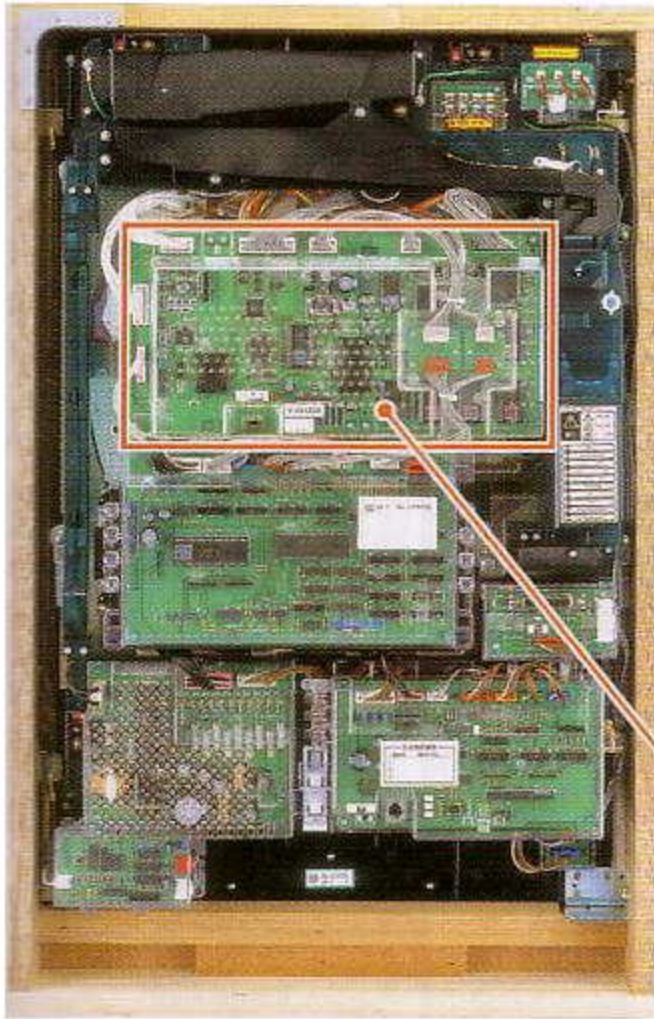
The board retaining lever is moved in the direction of the arrow.

Lift the latch and pull out the left hand side of the payout control board to remove it.

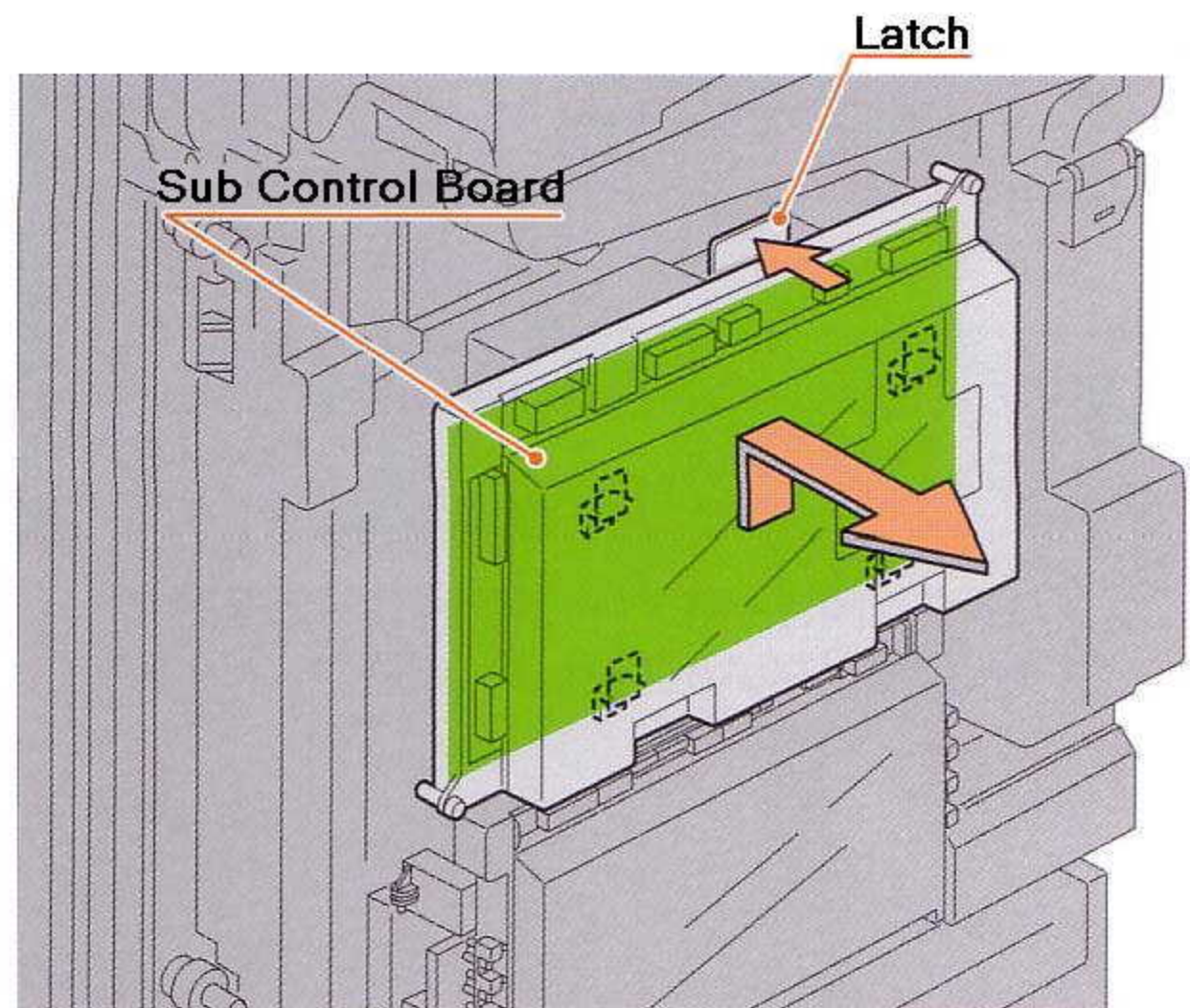
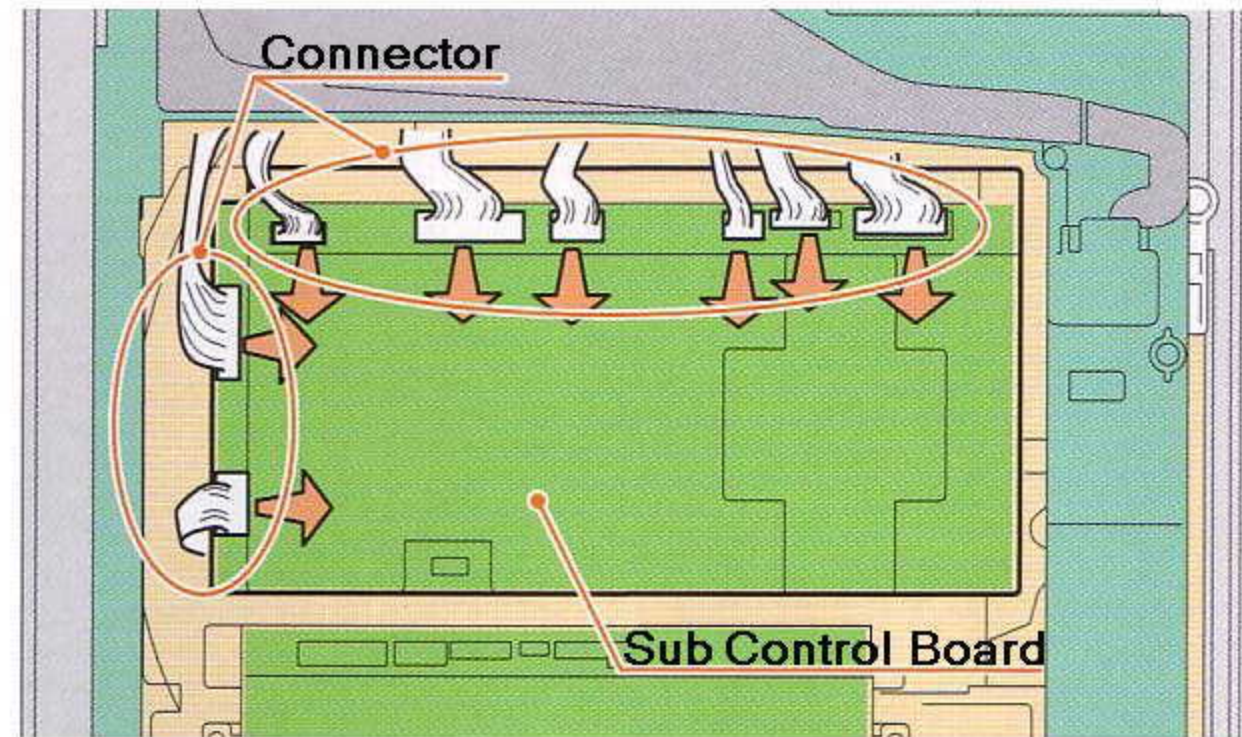
Before working on machine, always turn off at power switch and remove plug.



Removing Sub Control Board



Sub Control Board



The front framework is opened (see page 8 for details), and all connectors are removed from the sub control board.

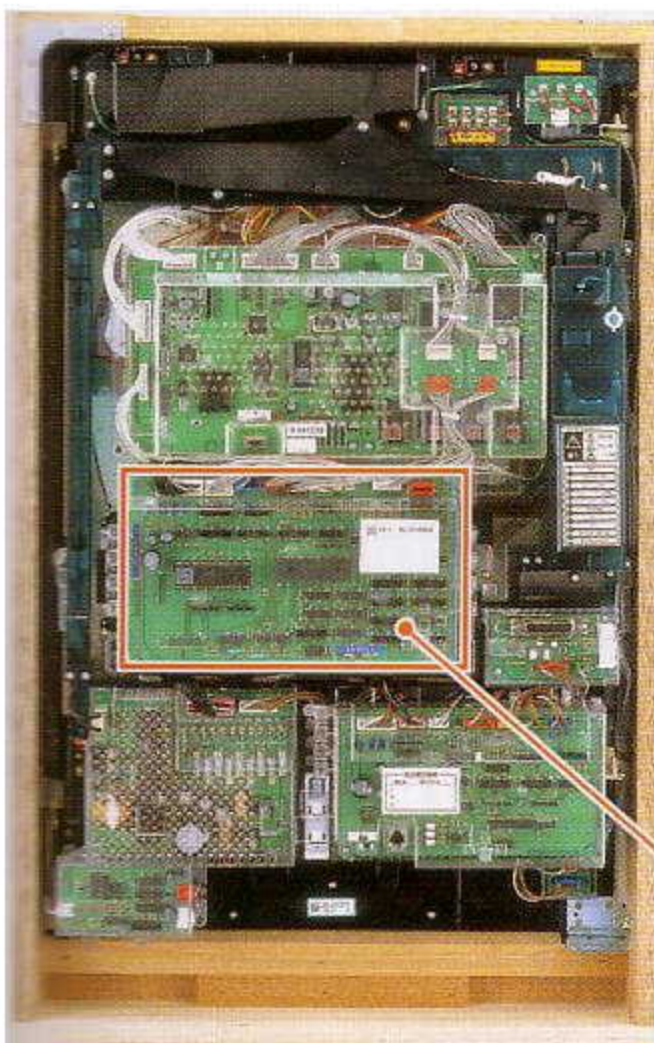
The latch lever is pressed and the sub control board is removed by sliding up and pulling away.

Note that on some machines the position of the sub control board and its removal method may vary.

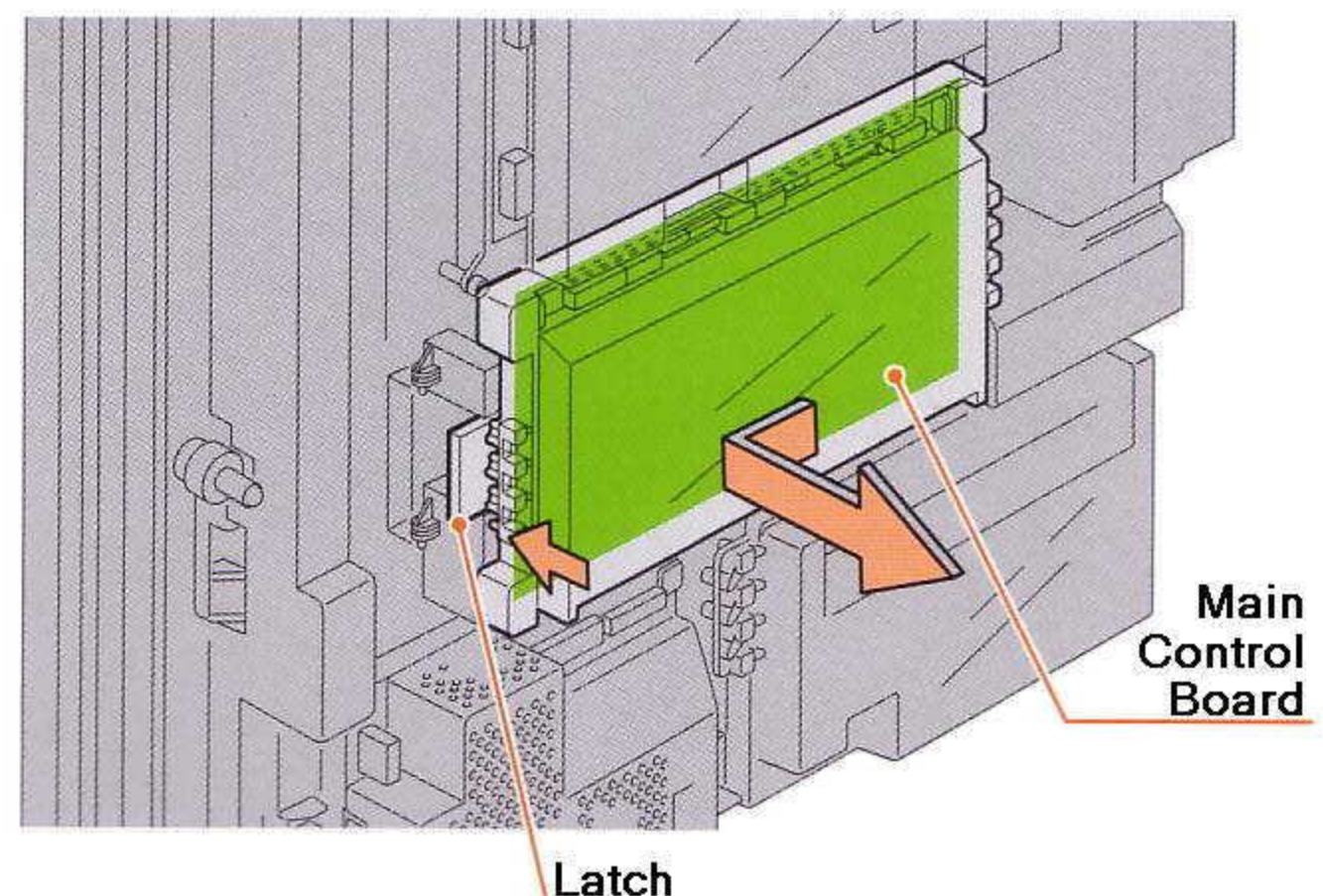
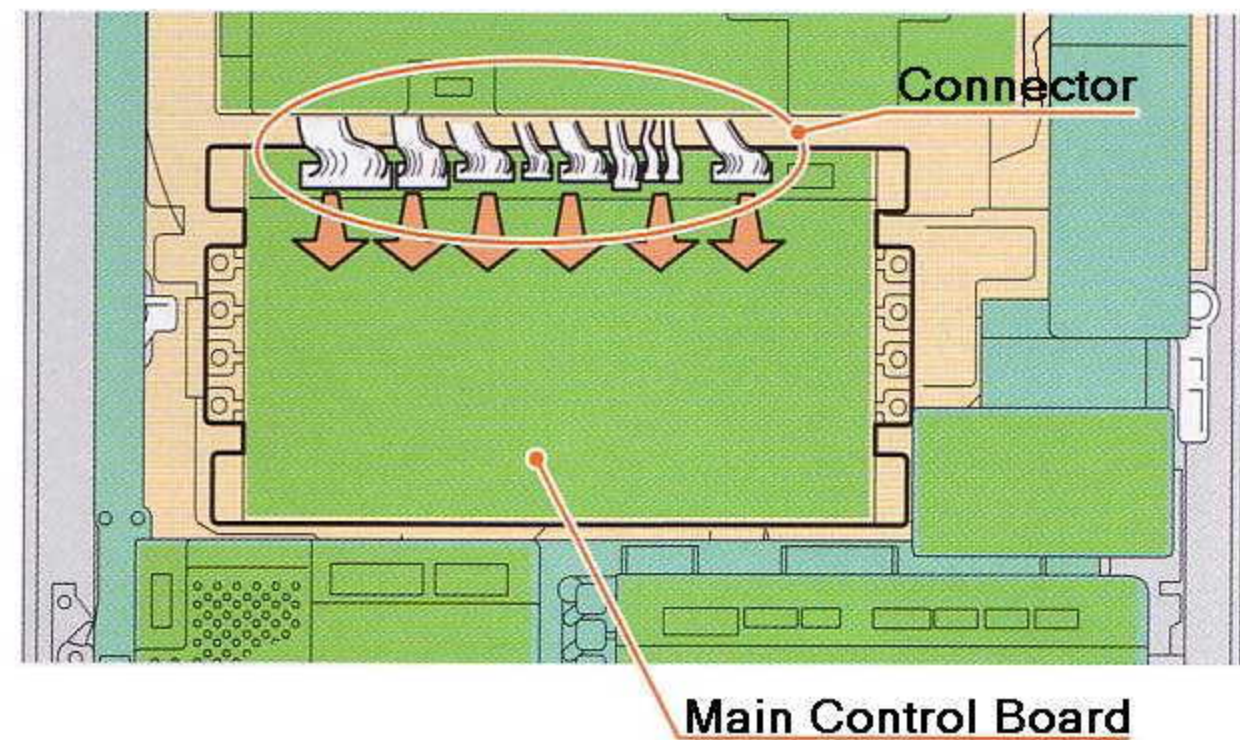
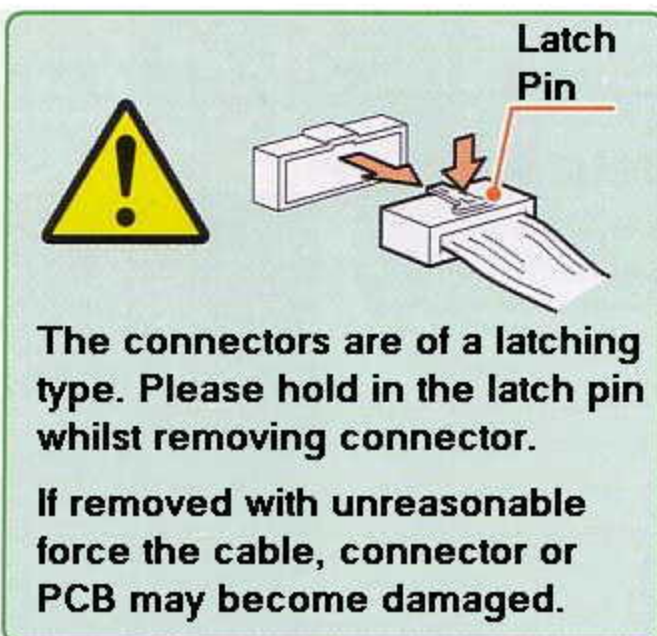


Before working on machine, always turn off at power switch and remove plug.

Removing Main Control Board



Main Control Board



The front framework is opened (see page 8 for details) and all connectors are removed from the main control board.

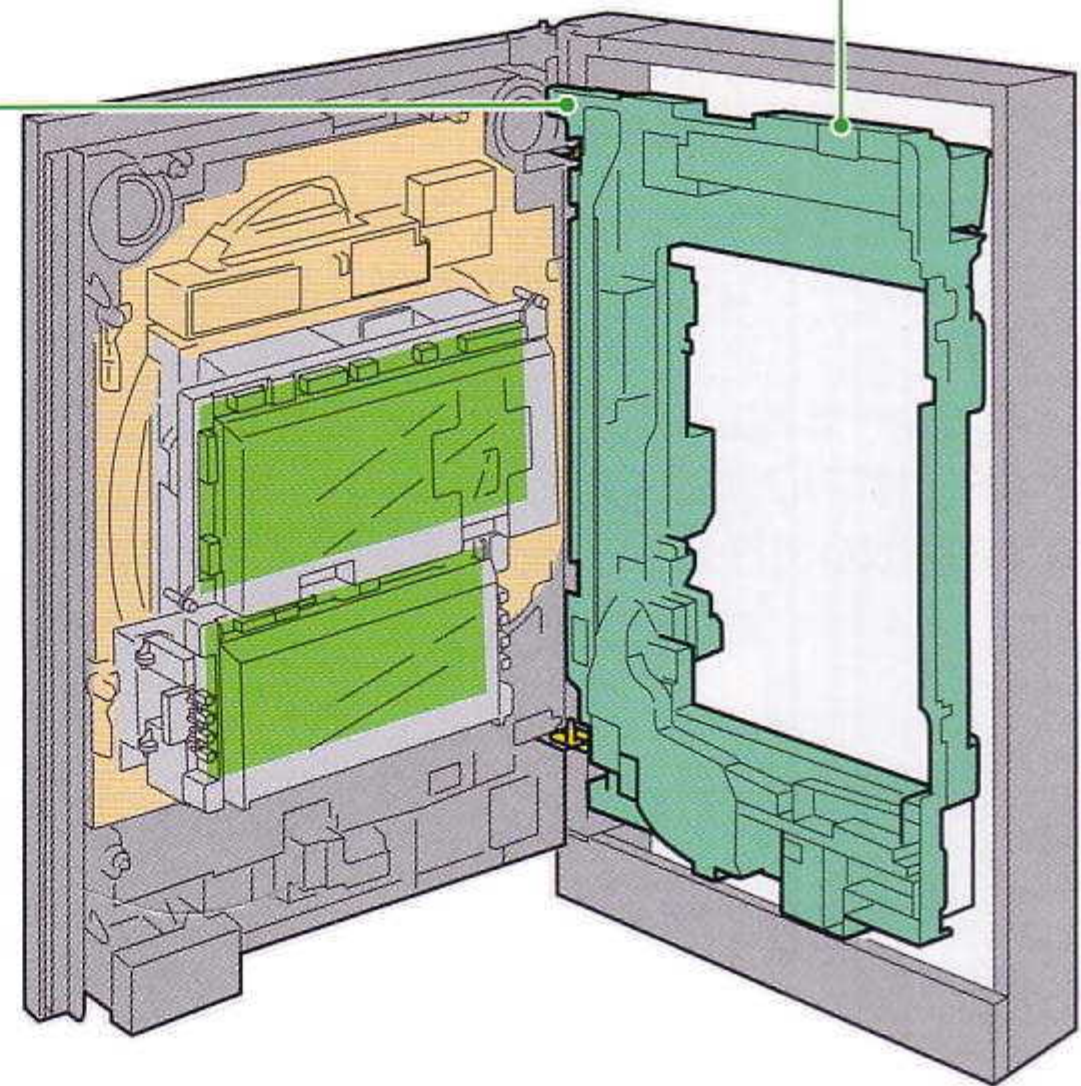
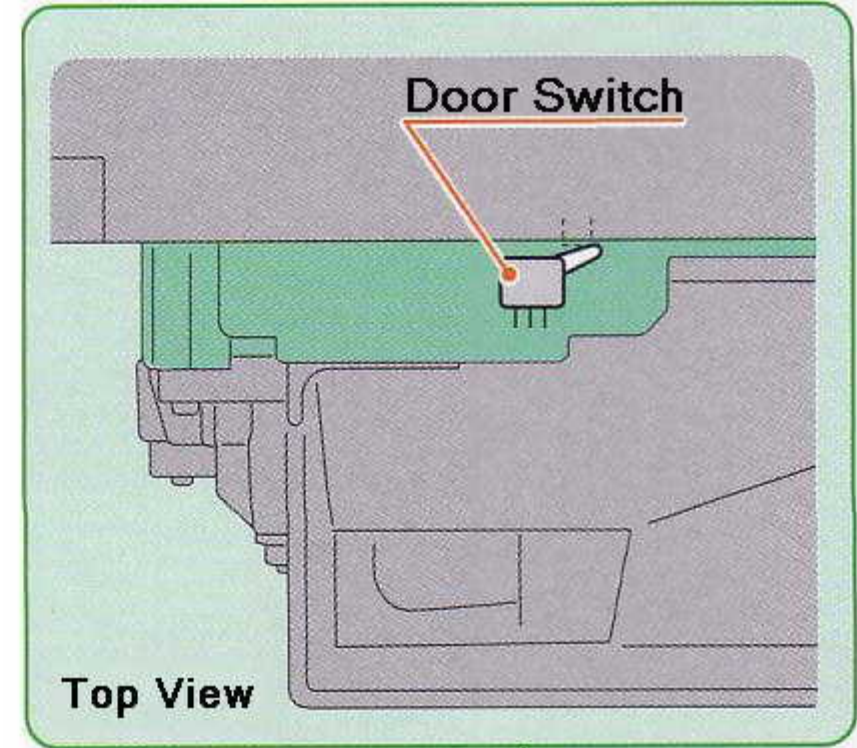
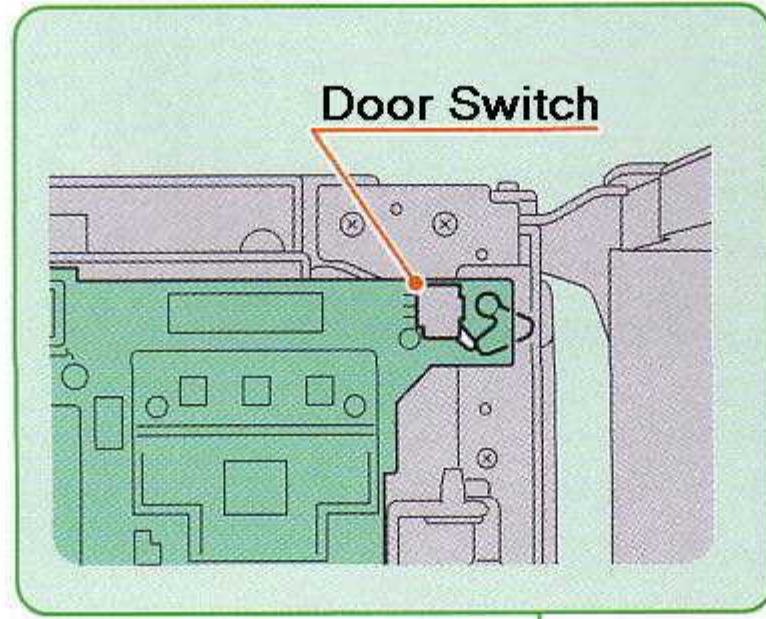
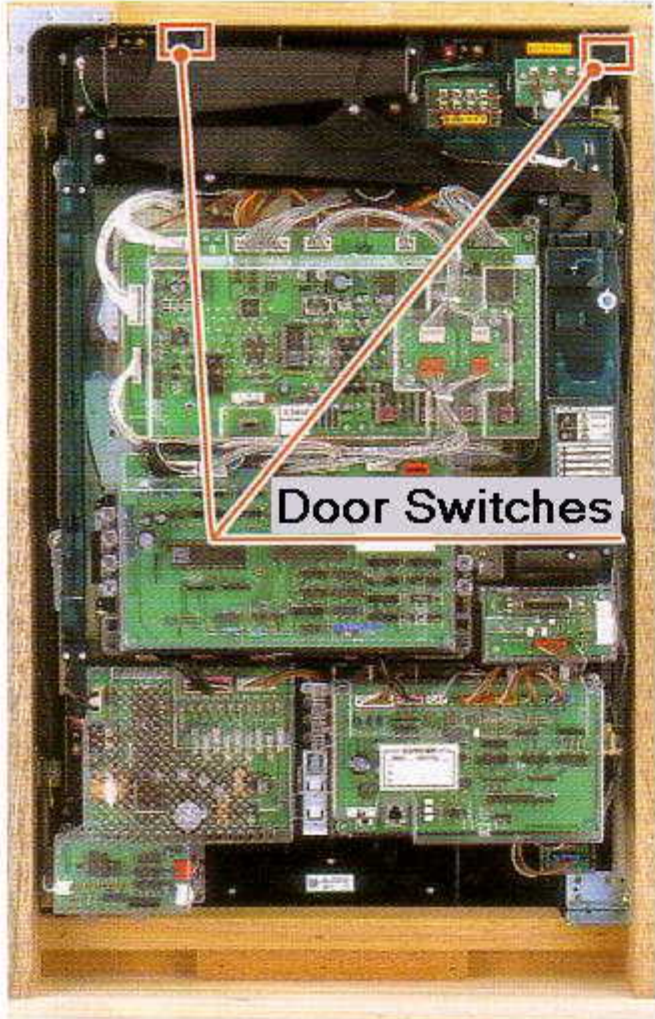
The latch lever is pressed and the main control board is removed by sliding to the left and pulling away.

Note that on some machines the position of the main control board and its removal method may vary.



Before working on machine, always turn off at power switch and remove plug.

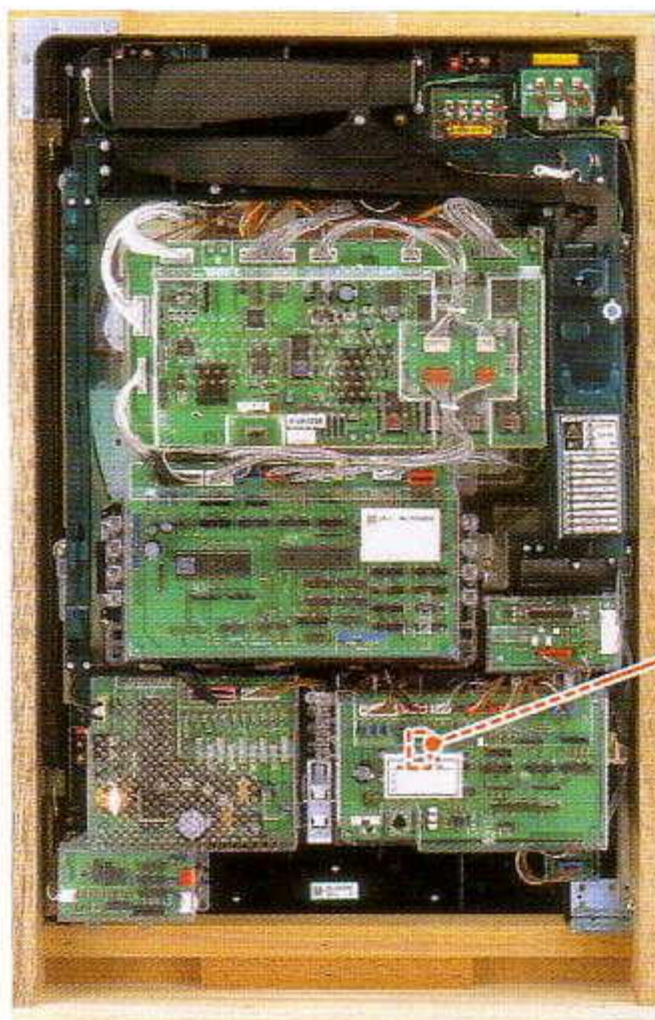
Inspection of Door Switches



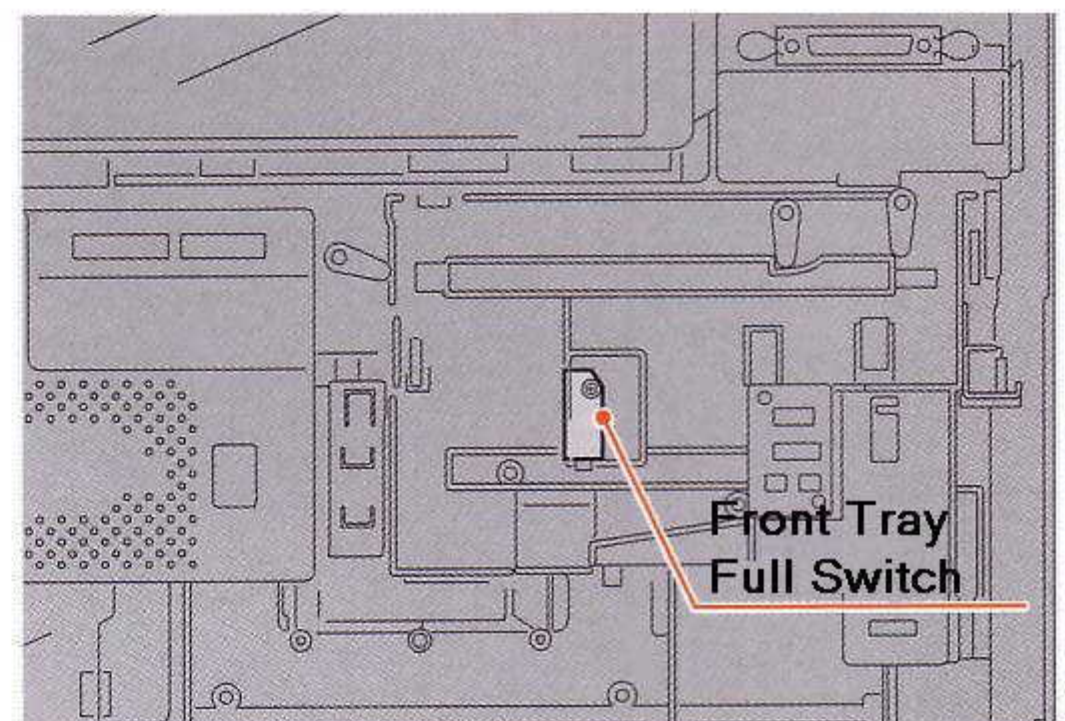
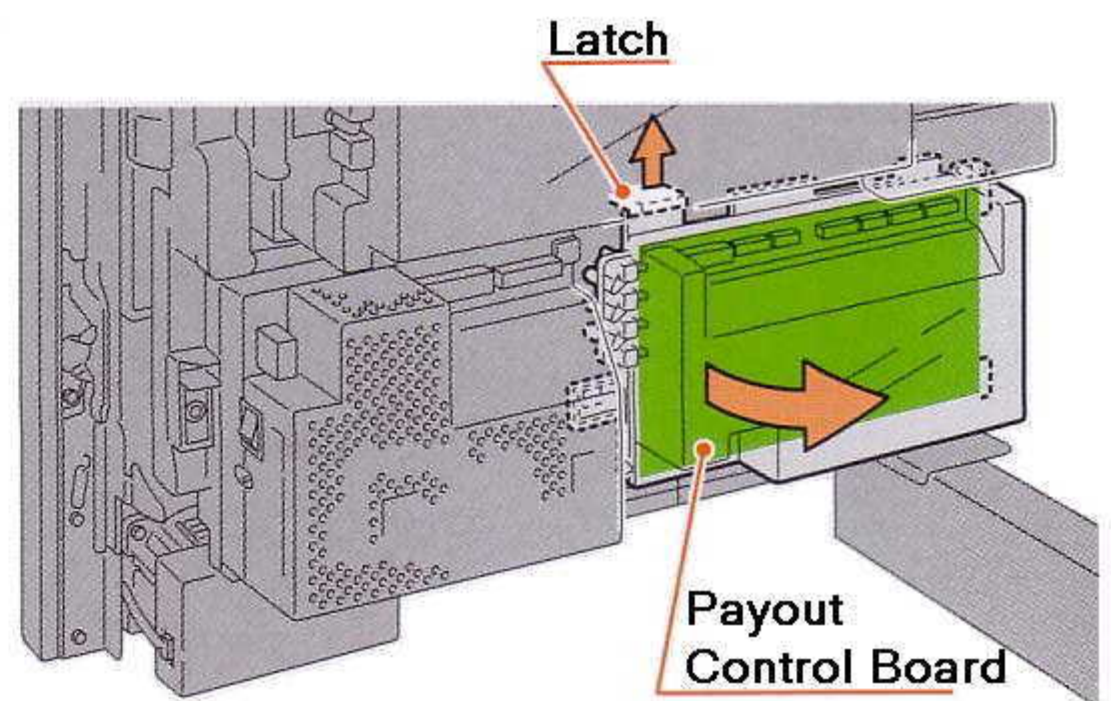
Before working on machine, always turn off at power switch and remove plug.

The sun pack is opened (see page 22 for details), the door switches can now be inspected.

Inspection of Front Tray Full Switch

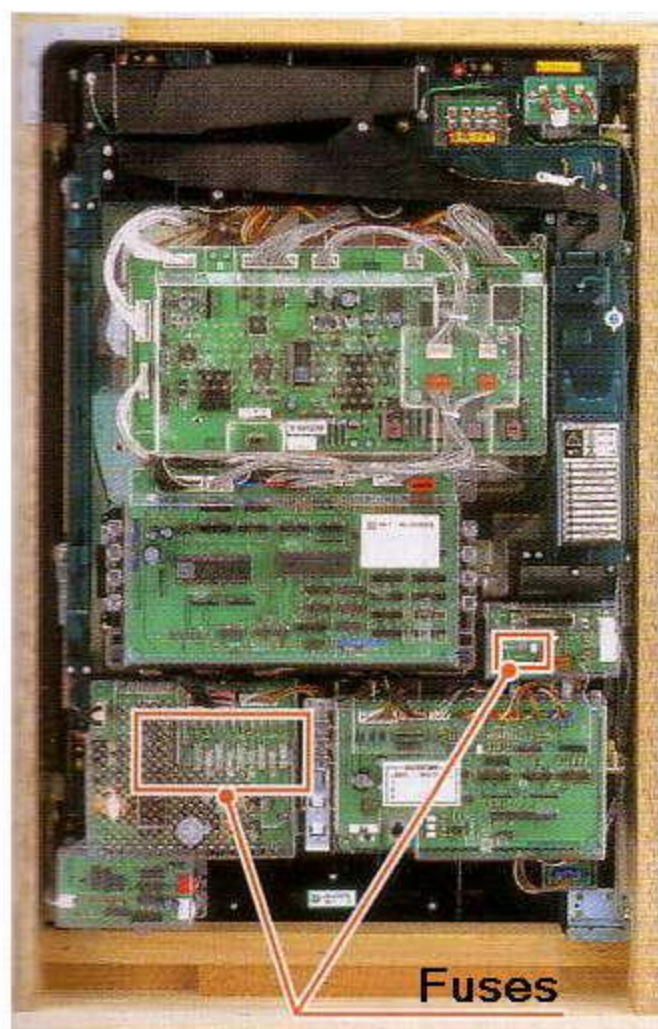


Before working on machine, always turn off at power switch and remove plug.

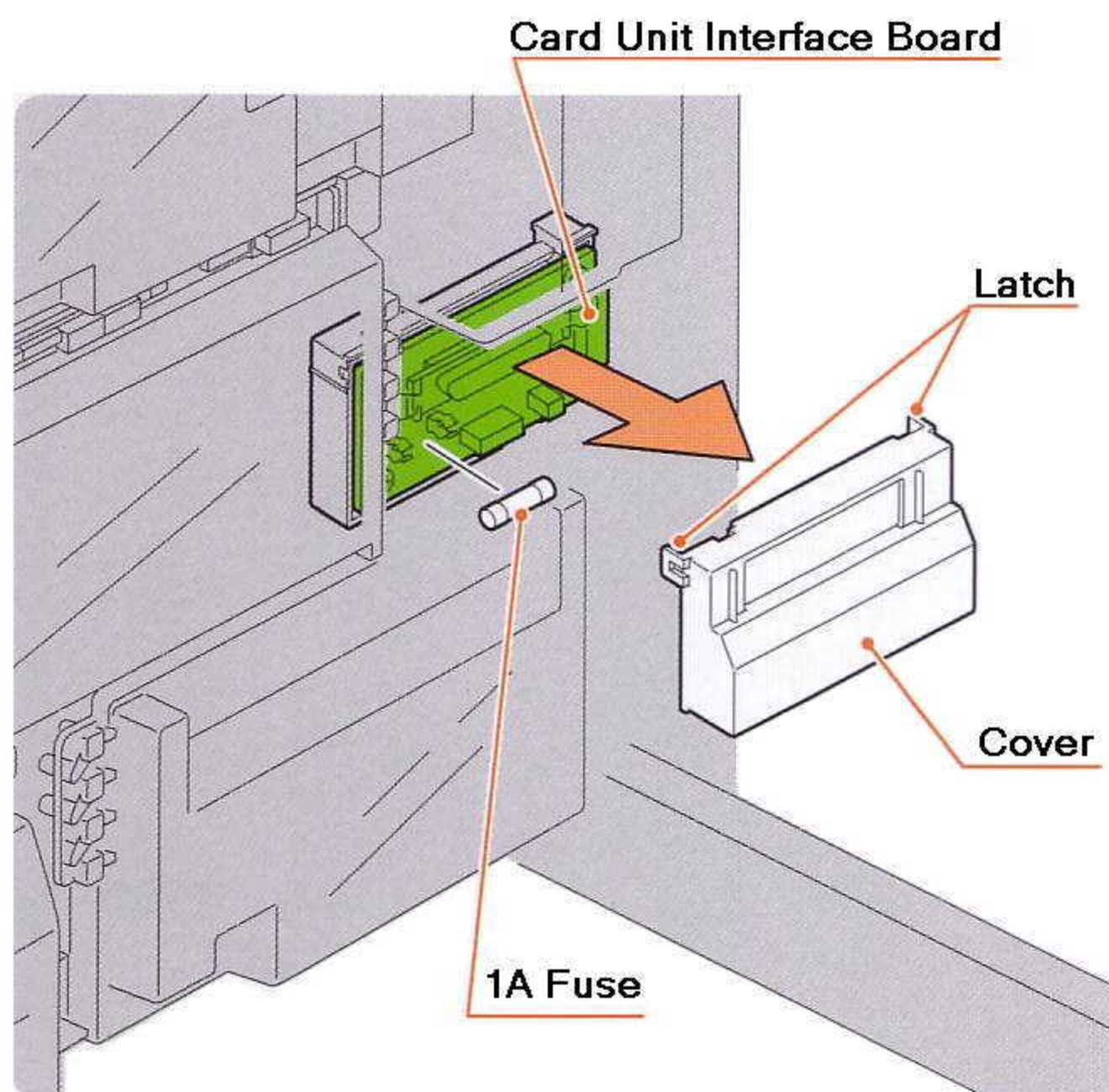


The payout control board is removed (see page 24 for details), the front tray full switch can now be inspected.

Changing Fuses



Before working on machine, always turn off at power switch and remove plug.



Changing fuse on card unit interface board.

Remove the card unit interface connector, and carefully unclip the latches and remove the cover.

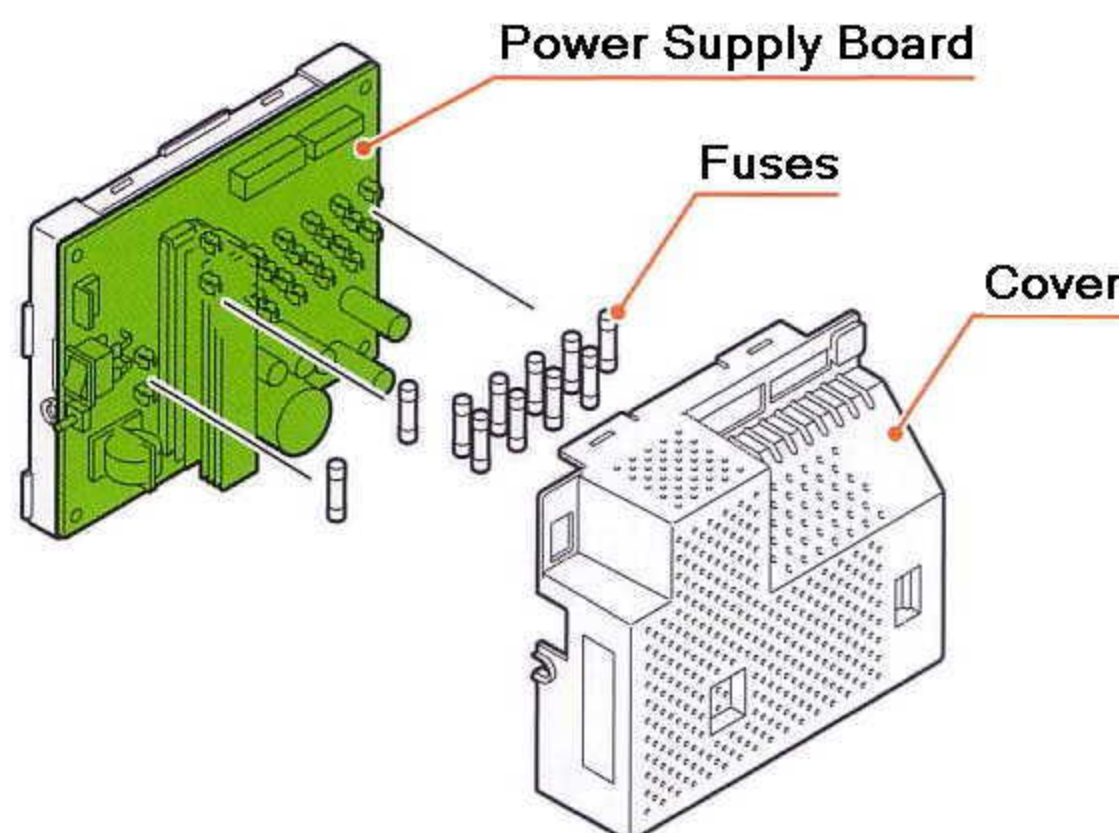
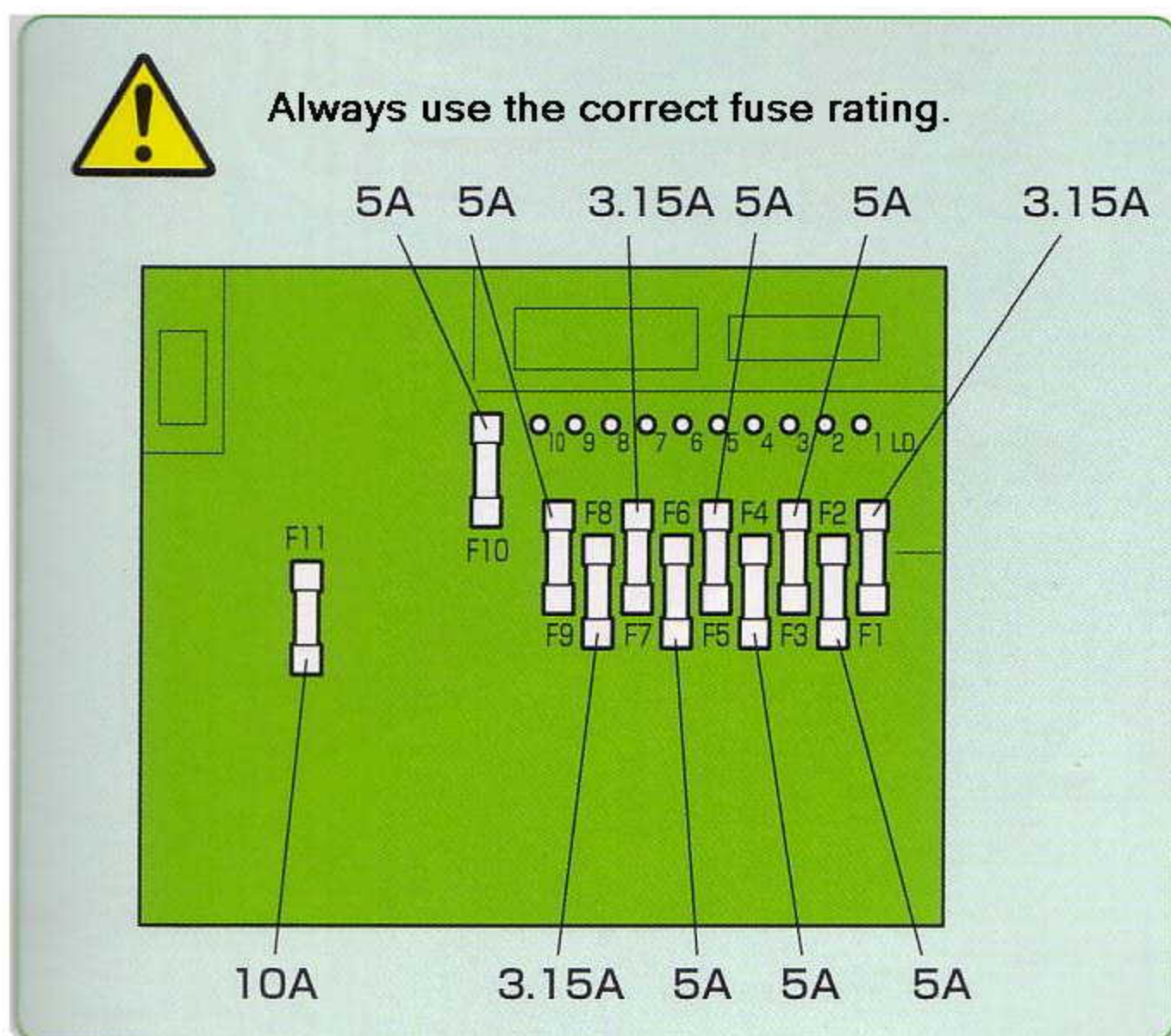
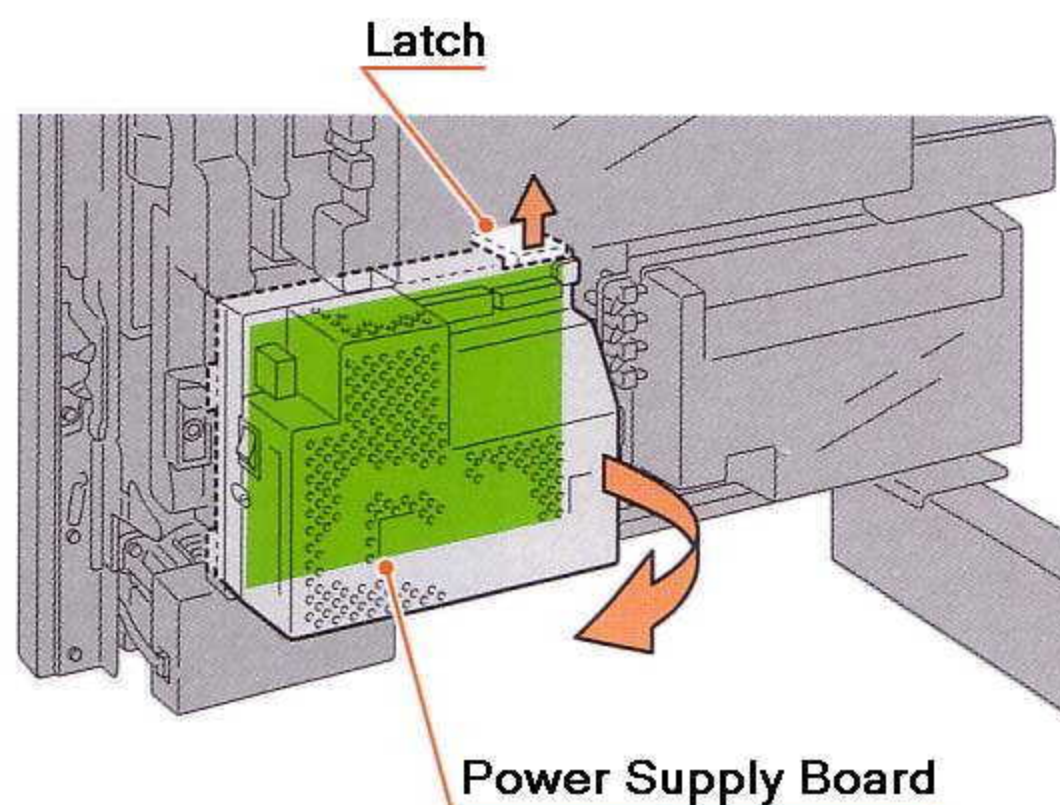
Test the fuse and replace if necessary with a 1A fuse.

Changing fuses on power supply board.

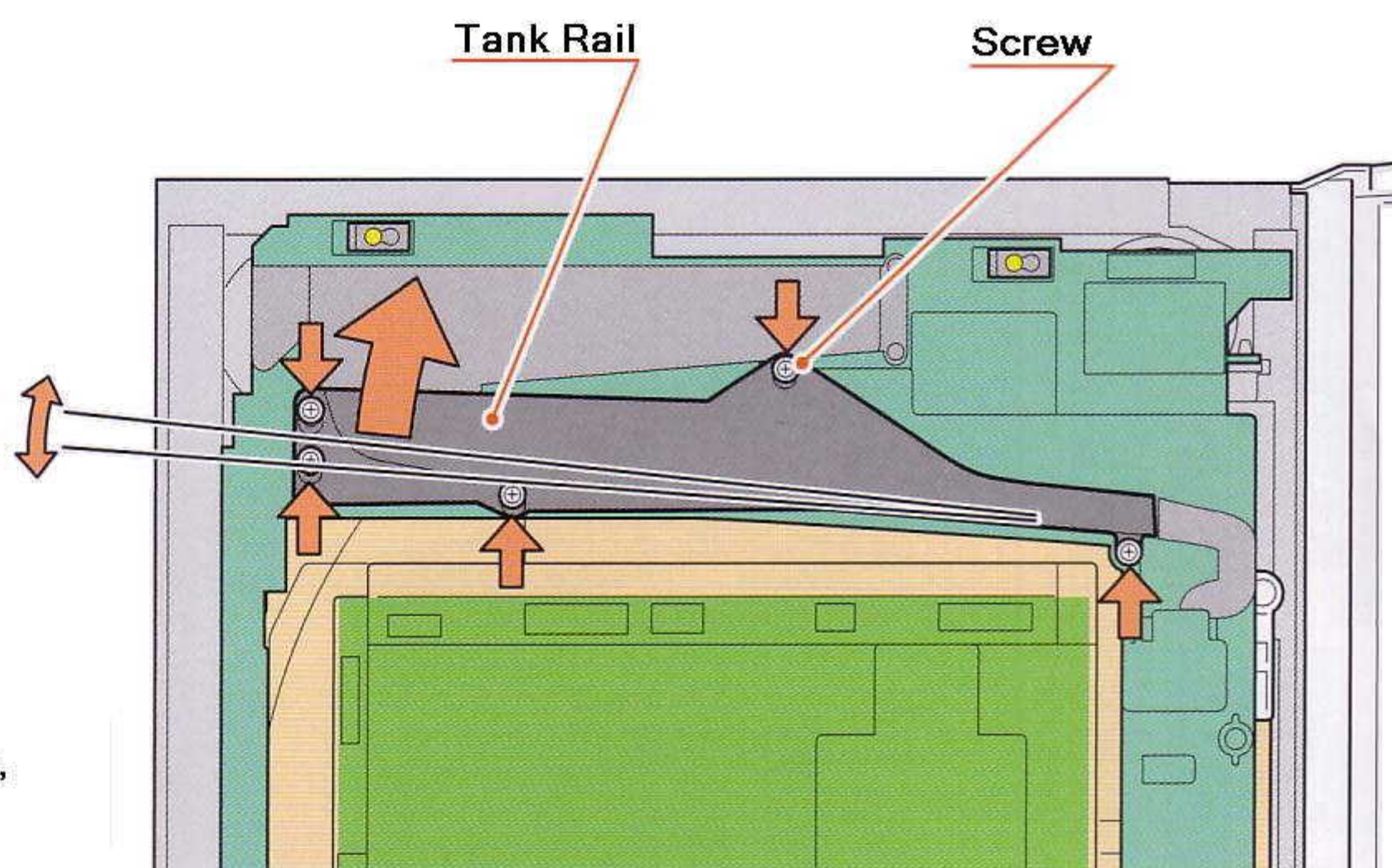
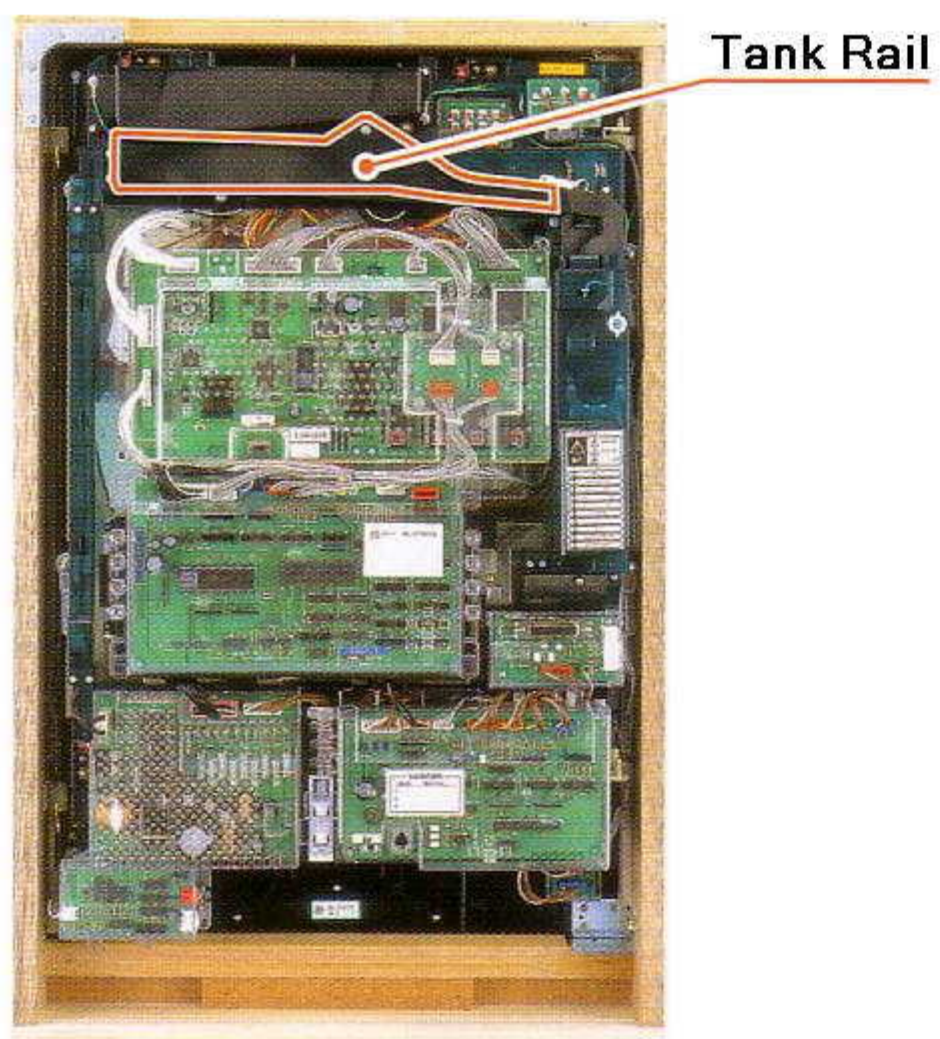
The power supply board is removed (see page 24 for details).

The power supply board cover is removed.

Test the fuse and replace if necessary with the a new fuse of the appropriate value.



Adjustment of Tank Rail

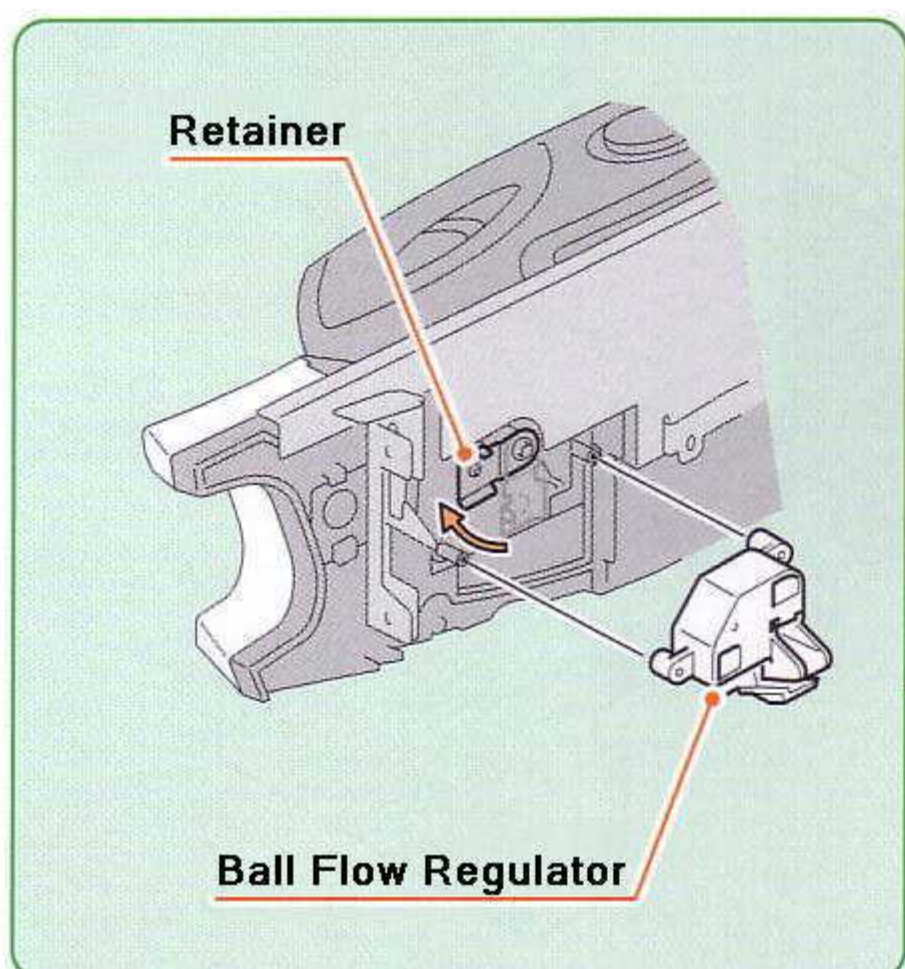
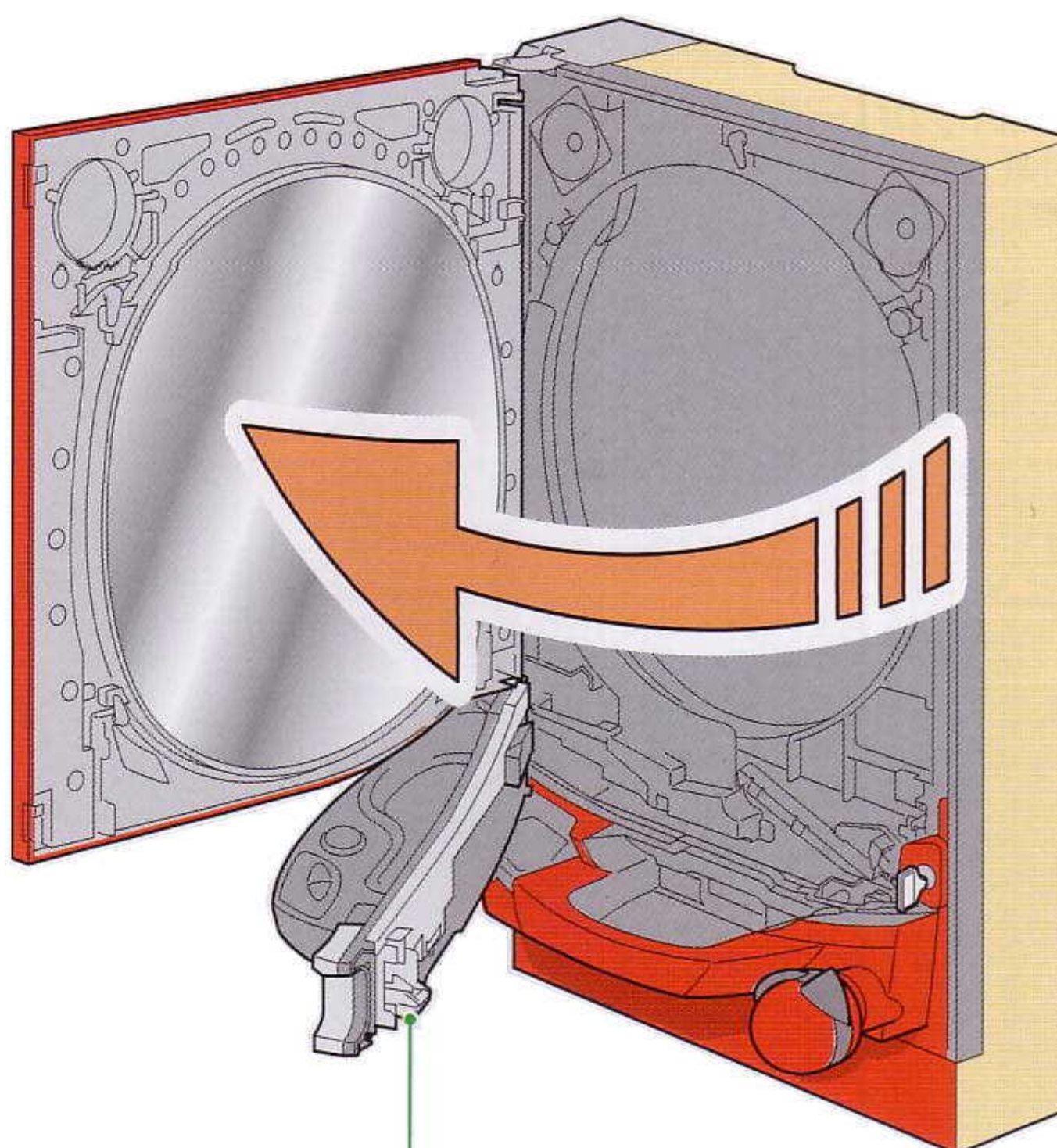


When balls do not flow freely along the tank rail, loosen the five screws and adjust the angle of the tank rail.

Removal of Ball Flow Regulator

The upper front tray is opened (see page 9 for details).

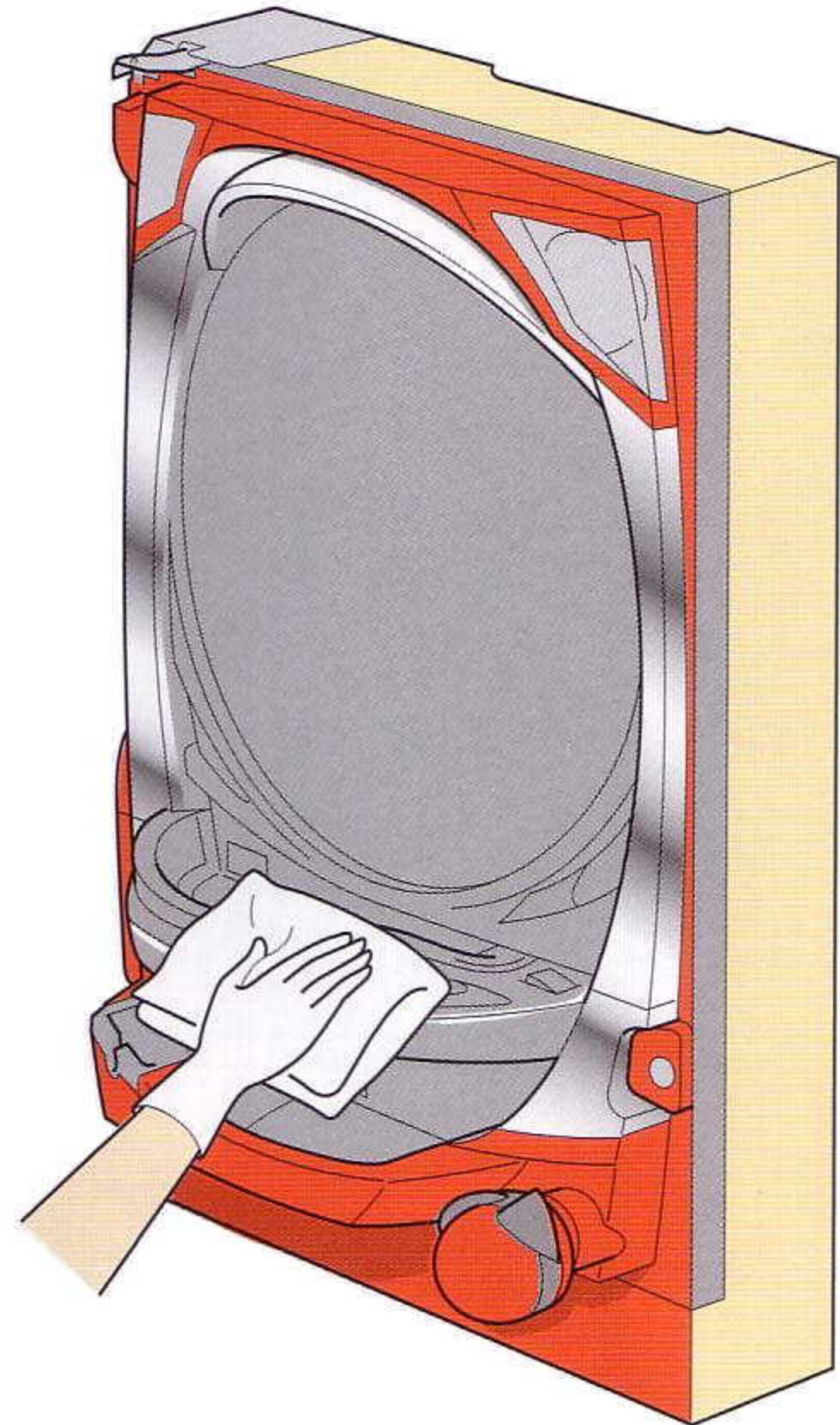
When the ball flow regulator retainer is turned in the direction of the arrow, the ball flow regulator can be removed.



Cleaning

To ensure plastic protection, please clean with a soft cloth and a neutral detergent.

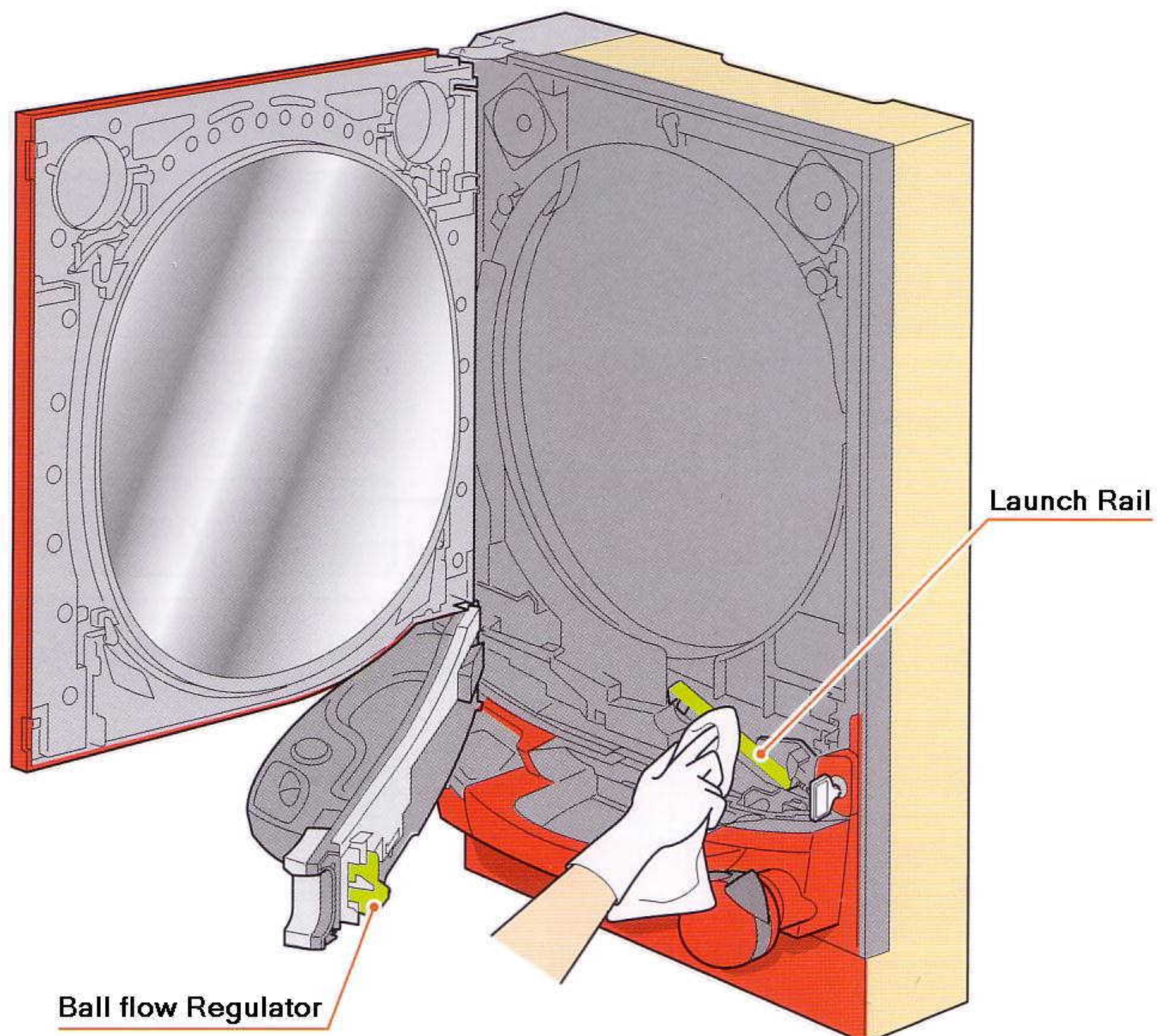
Harsh cleaners may damage the finish of the plastic.



Inspection of launch rail

Open the upper front tray (see page 9 for details).

The launch rail and ball flow regulator can now be cleaned.



Error Indication and Fault Location

Before working, please pay attention to the notices below.



To avoid risk of electric shock.
Before removing cover, always turn off at power switch, and remove plug



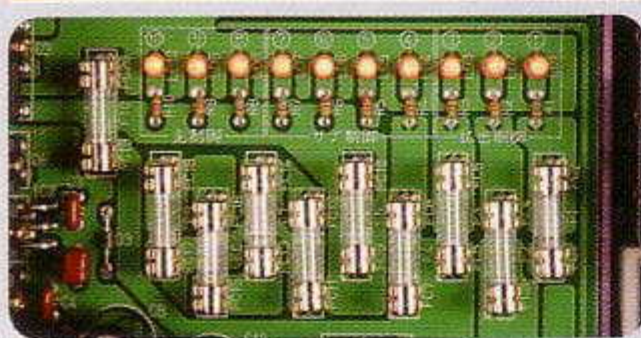
To avoid risk of injury.
Please pay attention to sharp metal edges while working.



To avoid risk of burns.
Allow hot solenoids, motors and lamps to cool before handling.

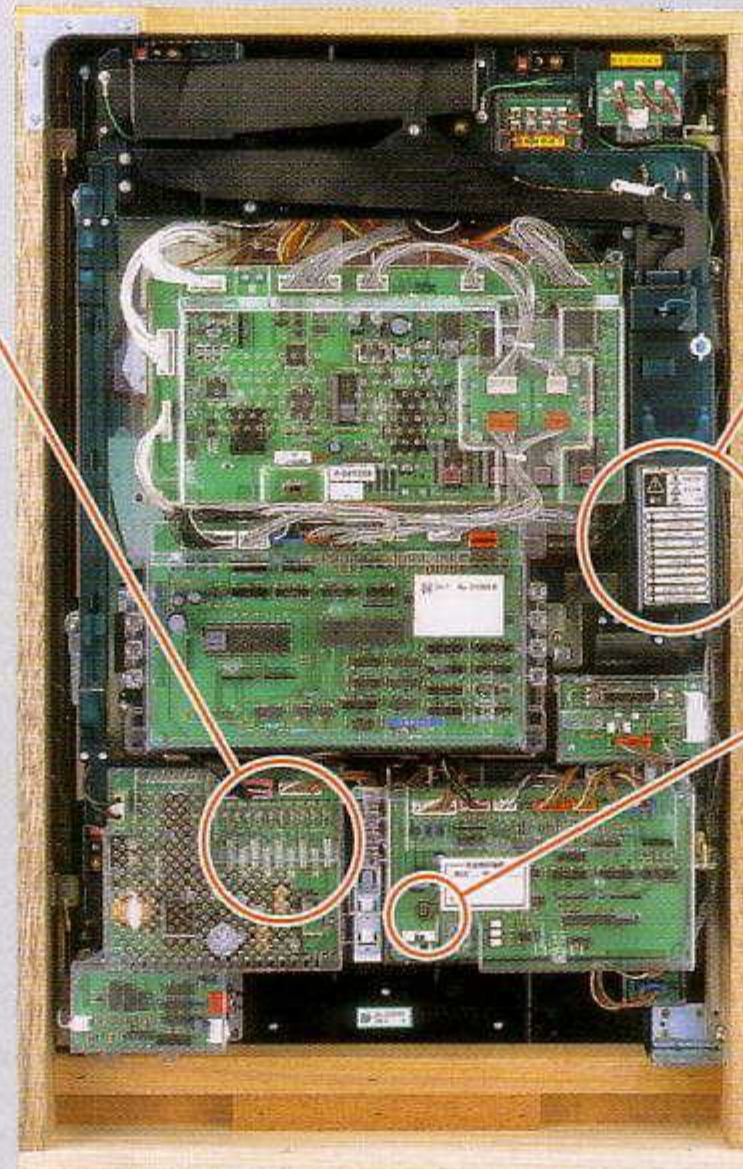
■ Fault Location

Error Indicator Location



Open the front framework and check if any error indicator LEDs are not lit. (In normal operation they are all lit.) If LED has gone out, change the fuse associated with it. (Ref Page 27)

LED No.	Fuse No	Fault Location
LD1	F1	There is the possibility of a fault on the payout control or card unit interface boards.
LD2	F2	
LD3	F3	
LD4	F4	There is the possibility of a fault on the sub control board.
LD5	F5	
LD6	F6	
LD7	F7	
LD8	F8	There is the possibility of a fault on the main control board.
LD9	F9	
LD10	F10	



Error Codes Label



Error Indicator Location



Open the front framework and check if a number is shown on the error indicator display. (In normal operation — is shown)

Number Indicated

Normal Indication

Check and replace according to error number shown

Error Number	Page Ref.
1 or 5	Page 31
2 or 3	Page 32
4	Page 33
6	Page 34
7	Page 35
8	Page 36
9	Page 37

Check and replace according to fault symptoms shown

Fault symptoms	Page Ref.
No Power	Page 38
Balls are not launched	Page 39
No prize ball pay-out	Page 40
No ball loan pay-out	Page 41
No prize ball signal output	Page 42
No door-open signal output	Page 43

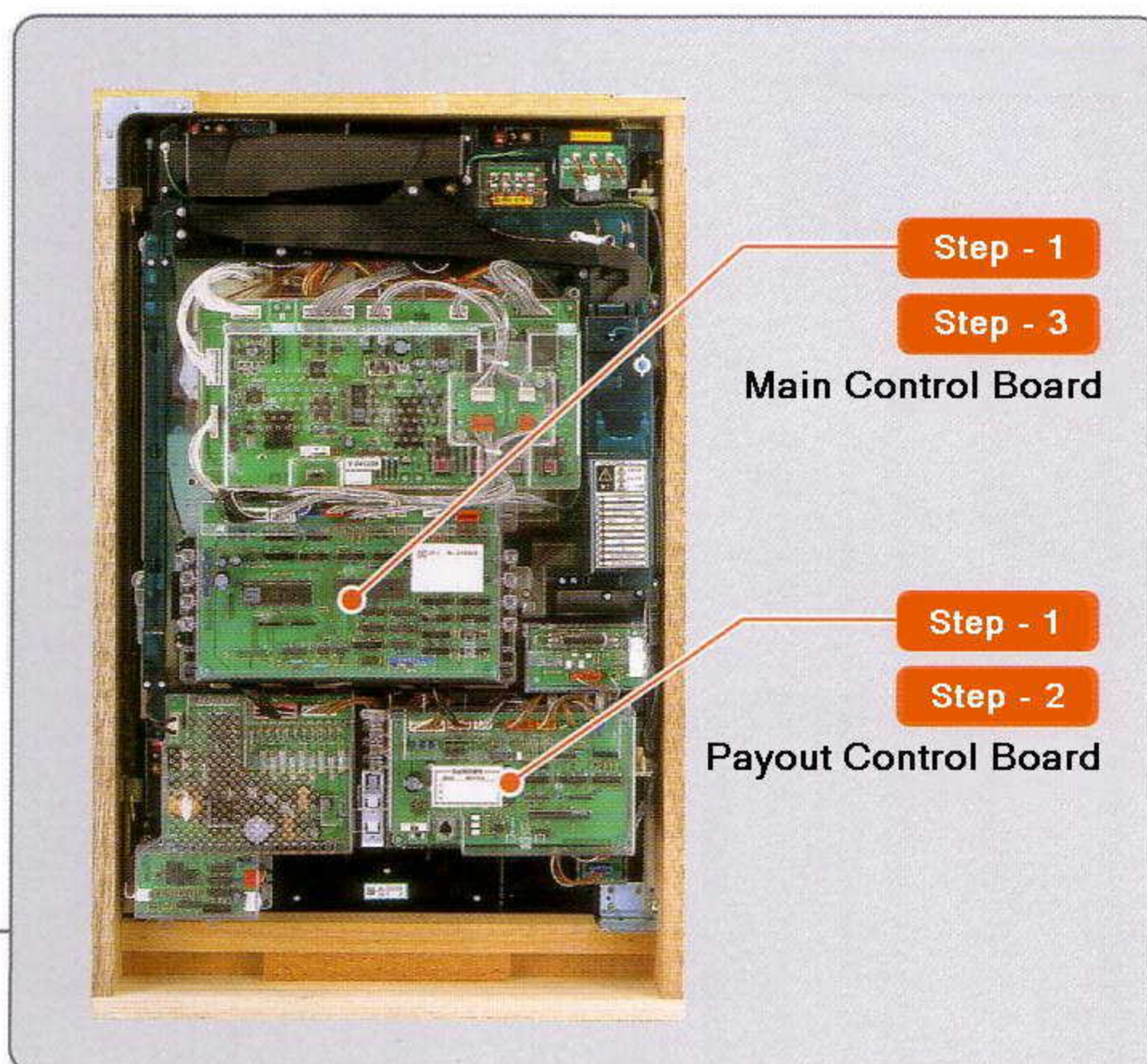
Error Codes and Fault Finding

Error Code



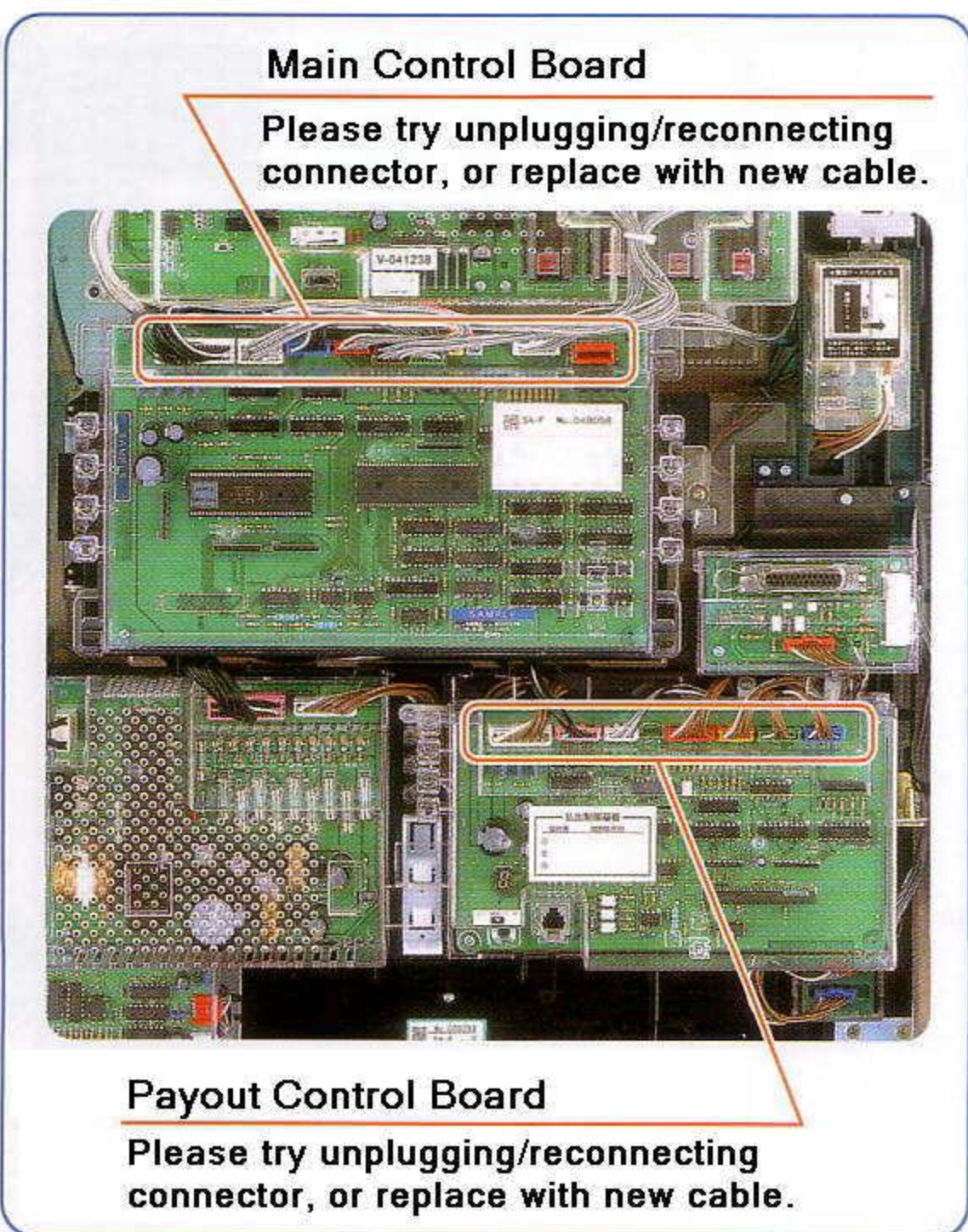
Connection fault with main control board.
Communication fault with main control board.

Please follow fault finding steps starting at **Step - 1**



Step - 1
Has main control board communication cable (blue connector) leading to payout control board (pink connector) been disconnected or damaged.

Yes



If fault remains...

Step - 2 Please replace payout control board. See page 24 for replacement instructions.

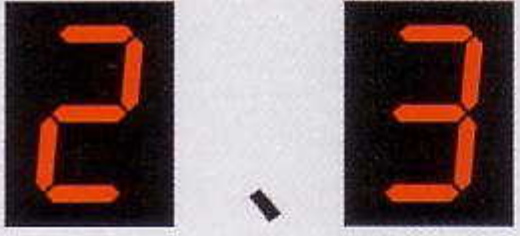
Step - 3 Please replace main control board. See page 25 for replacement instructions.



If after checking and replacing items indicated in fault finding steps above, problem is not solved, please contact dealer.

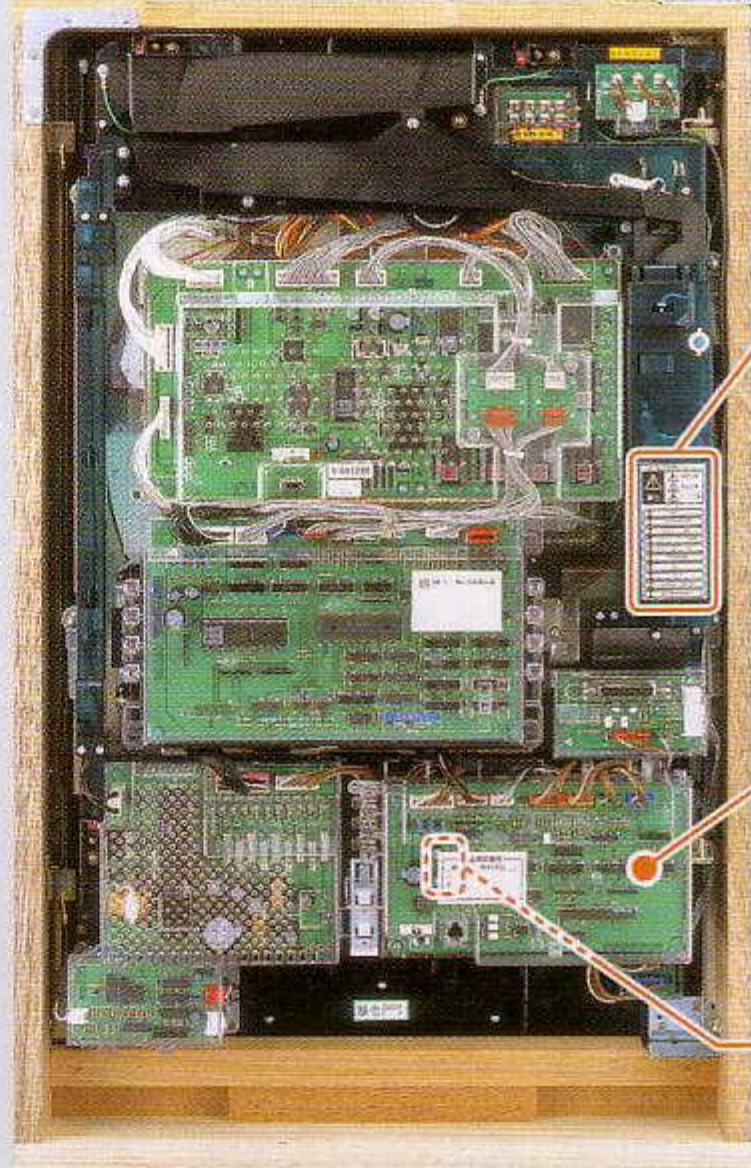
Error Codes and Fault Finding

Error Code



Ball jam by payout count switch.
Fault with payout count switch.
Fault with front tray full switch.

Location of Tests



Step - 1

Step - 2

Step - 3

Step - 4

Payout Unit

Step - 3

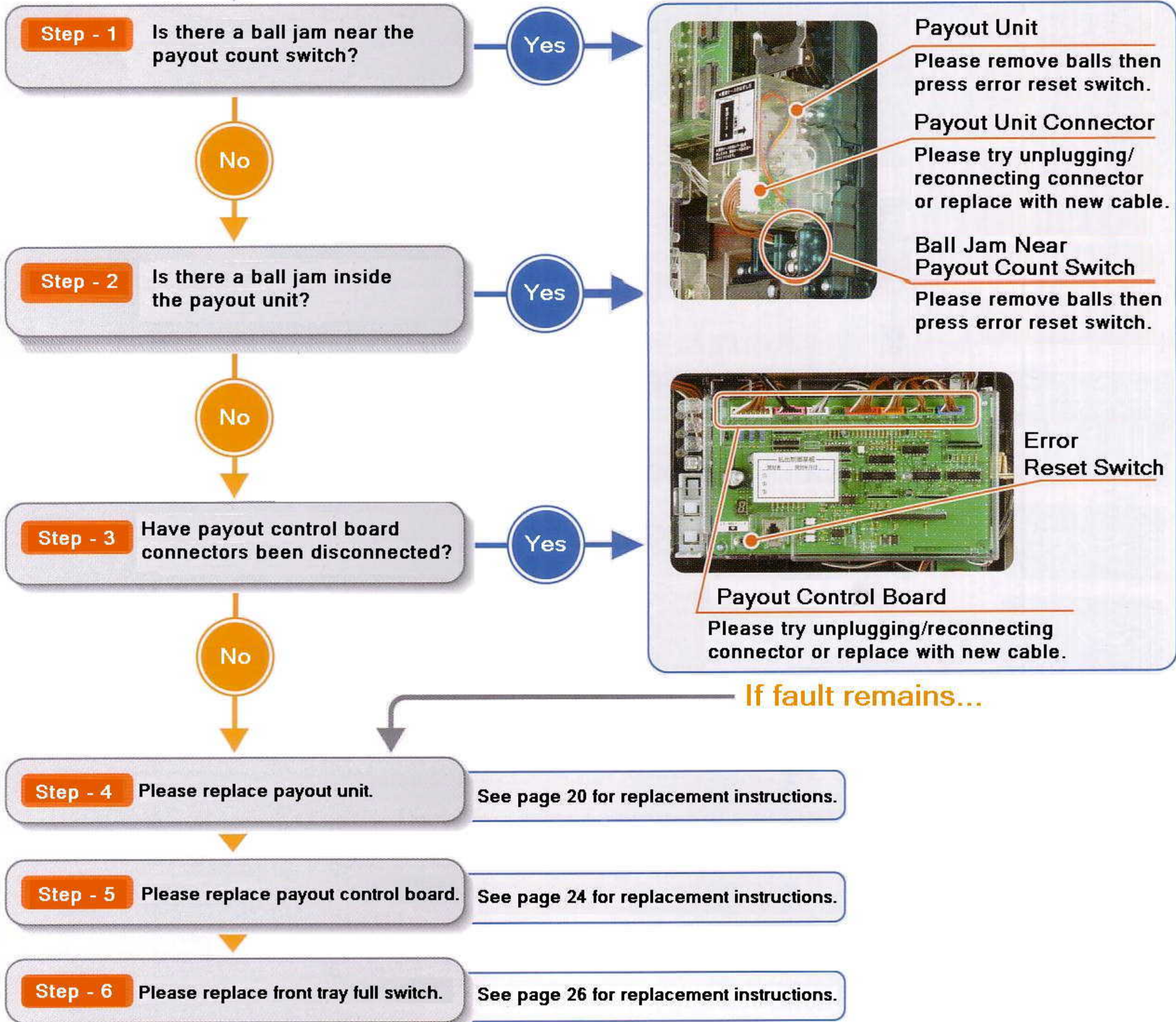
Step - 5

Payout Control Board

Step - 6

**Front Tray Full Switch
(Behind Payout Control Board)**

Please follow fault finding steps starting at **Step - 1**



If after checking and replacing items indicated in fault finding steps above problem is not solved, please contact dealer.

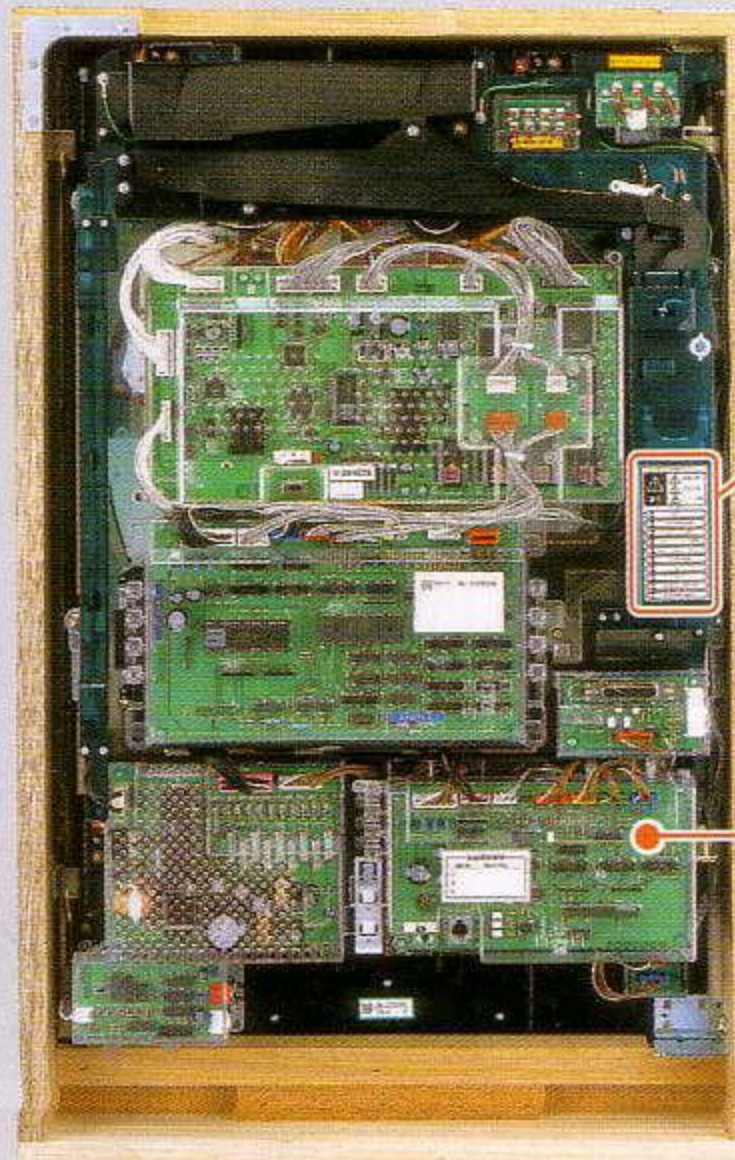
Error Codes and Fault Finding

Error Code



Ball jam in payout unit.
Payout unit motor fault.

Location of Tests



Step - 1

Step - 2

Step - 3

Payout Unit

Step - 2

Step - 4

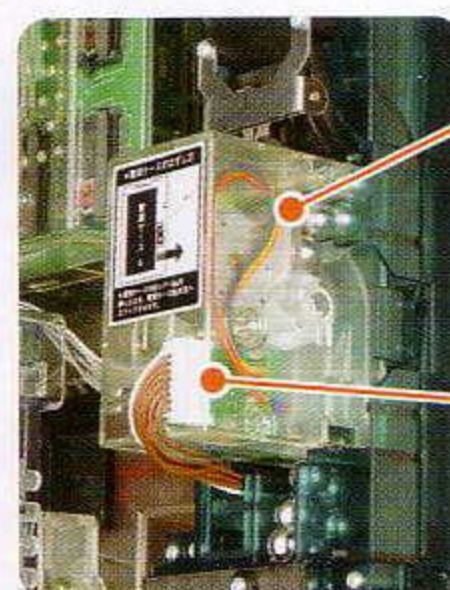
Payout Control Board

Please follow fault finding steps starting at **Step - 1**

Step - 1

Is there a ball jam in the payout unit?

Yes



Payout Unit
Please remove balls then press error reset switch.

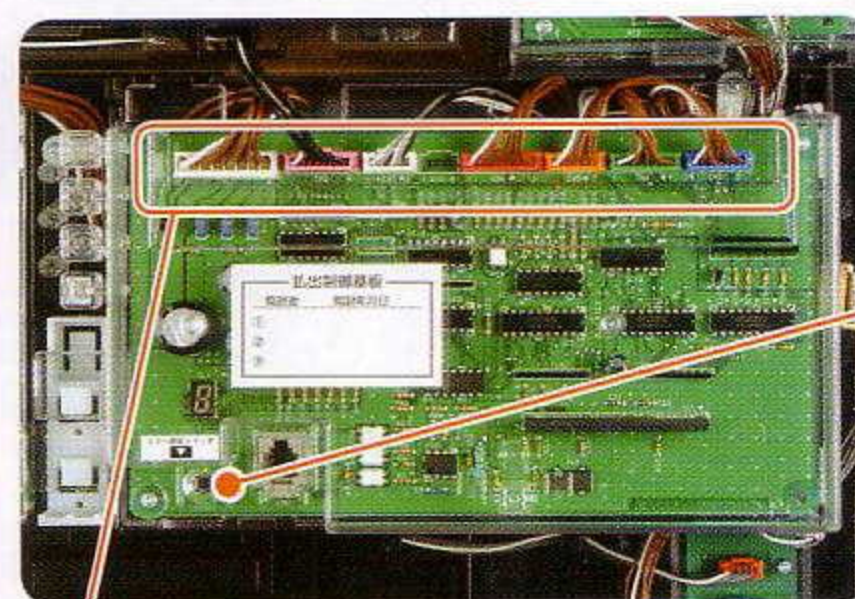
Payout Unit Connector
Please try unplugging/reconnecting connector or replace with new cable.

No

Step - 2

Have payout control board, or payout unit connectors become disconnected?

Yes



Error Reset Switch

Payout Control Board
Please try unplugging/reconnecting connector or replace with new cable.

No

If fault remains...

Step - 3

Please replace payout unit.

See page 20 for replacement instructions.

Step - 4

Please replace payout control board.

See page 24 for replacement instructions.



If after checking and replacing items indicated in fault finding steps above problem is not solved, please contact dealer.

Error Codes and Fault Finding

Error Code

6

Front Tray Full

Location of Tests

- Step - 1 Lower Front Tray
- Step - 2
- Step - 3
- Step - 2 Front Tray Full Switch (Behind payout control board)
- Step - 4
- Step - 2 Payout Control Board
- Step - 2 Interconnect Board (Behind payout control board)

Please follow fault finding steps starting at Step - 1

Step - 1

Is the lower front tray full?

Yes

Front Lower Tray

Please empty balls from front lower tray.

No

Step - 2

Have any connectors on the front tray full switch, interconnect board, or payout control board been disconnected?

Yes

Front Tray Full Switch

Please try unplugging/reconnecting connector or replace with new cable.

Interconnect Board

Please try unplugging/reconnecting connector or replace with new cable.

No

If fault remains...

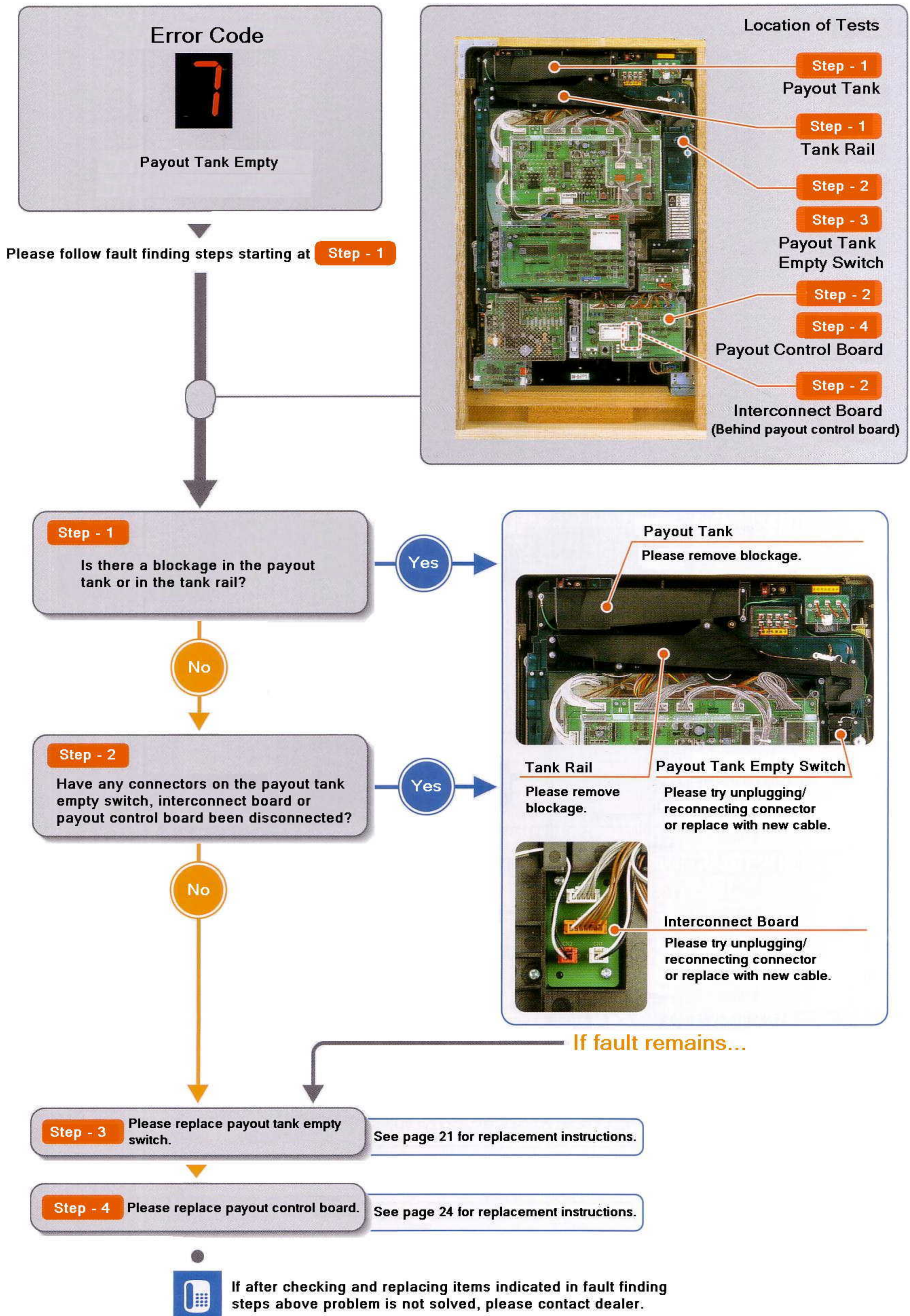
Step - 3 Please replace front tray full switch. See page 26 for replacement instructions.

Step - 4 Please replace payout control board. See page 24 for replacement instructions.



If after checking and replacing items indicated in fault finding steps above problem is not solved, please contact dealer.


Error Codes and Fault Finding




If after checking and replacing items indicated in fault finding steps above problem is not solved, please contact dealer.

Error Codes and Fault Finding

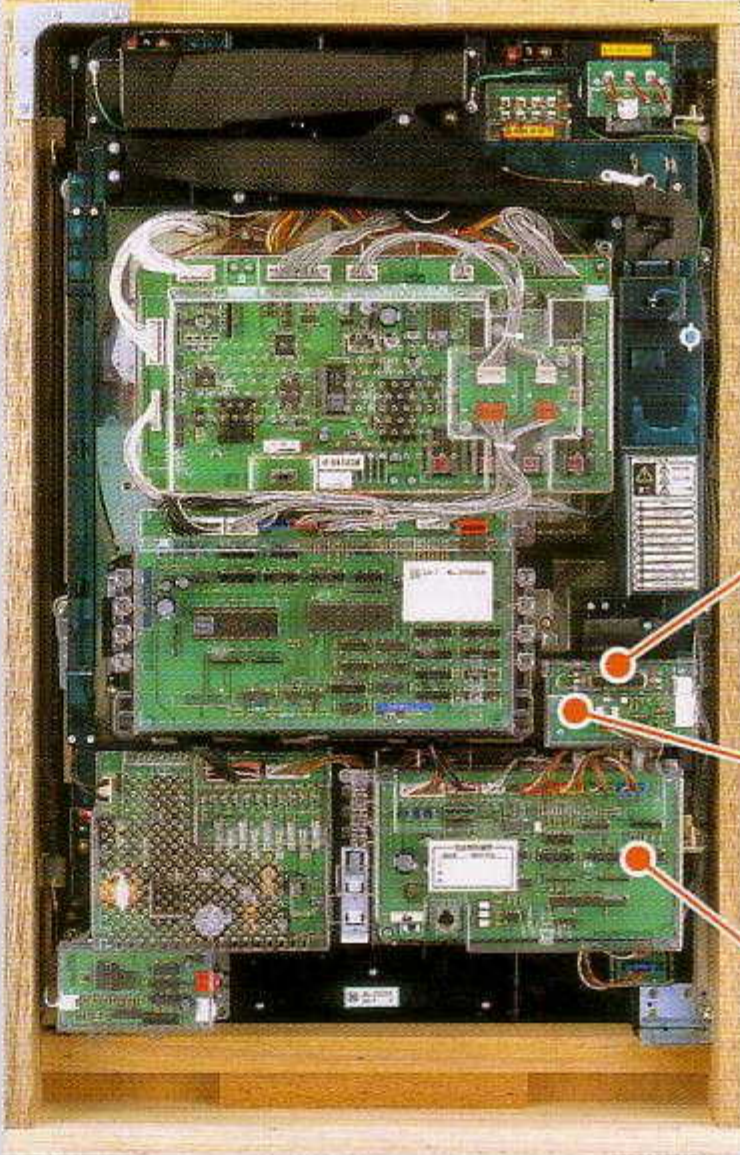
Error Code



8

Card unit not connected.

Location of Tests



Step - 1
Card Unit Cable

Step - 2
Card Unit Interface Board

Step - 3
Payout Control Board

Please follow fault finding steps starting at **Step - 1**

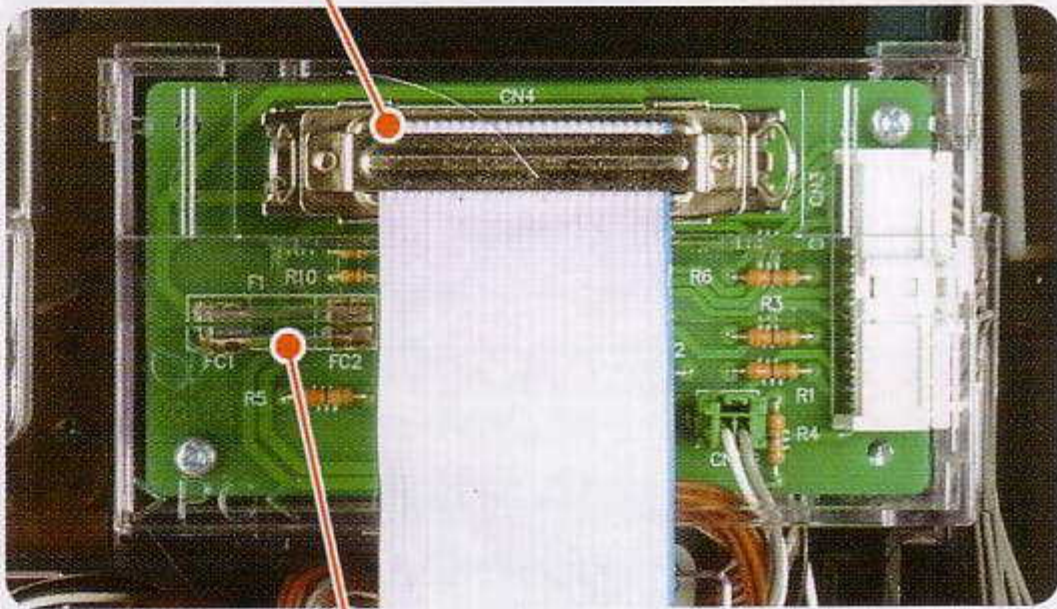
Step - 1

Has the card unit cable been disconnected or damaged?

Yes

Card Unit Cable

Please try unplugging/reconnecting connector or replace with new cable.



Fuse (1A)

Please change fuse (see page 27 for details).

No

Step - 2

Has the 1A fuse on the card unit interface board blown?

Yes

No

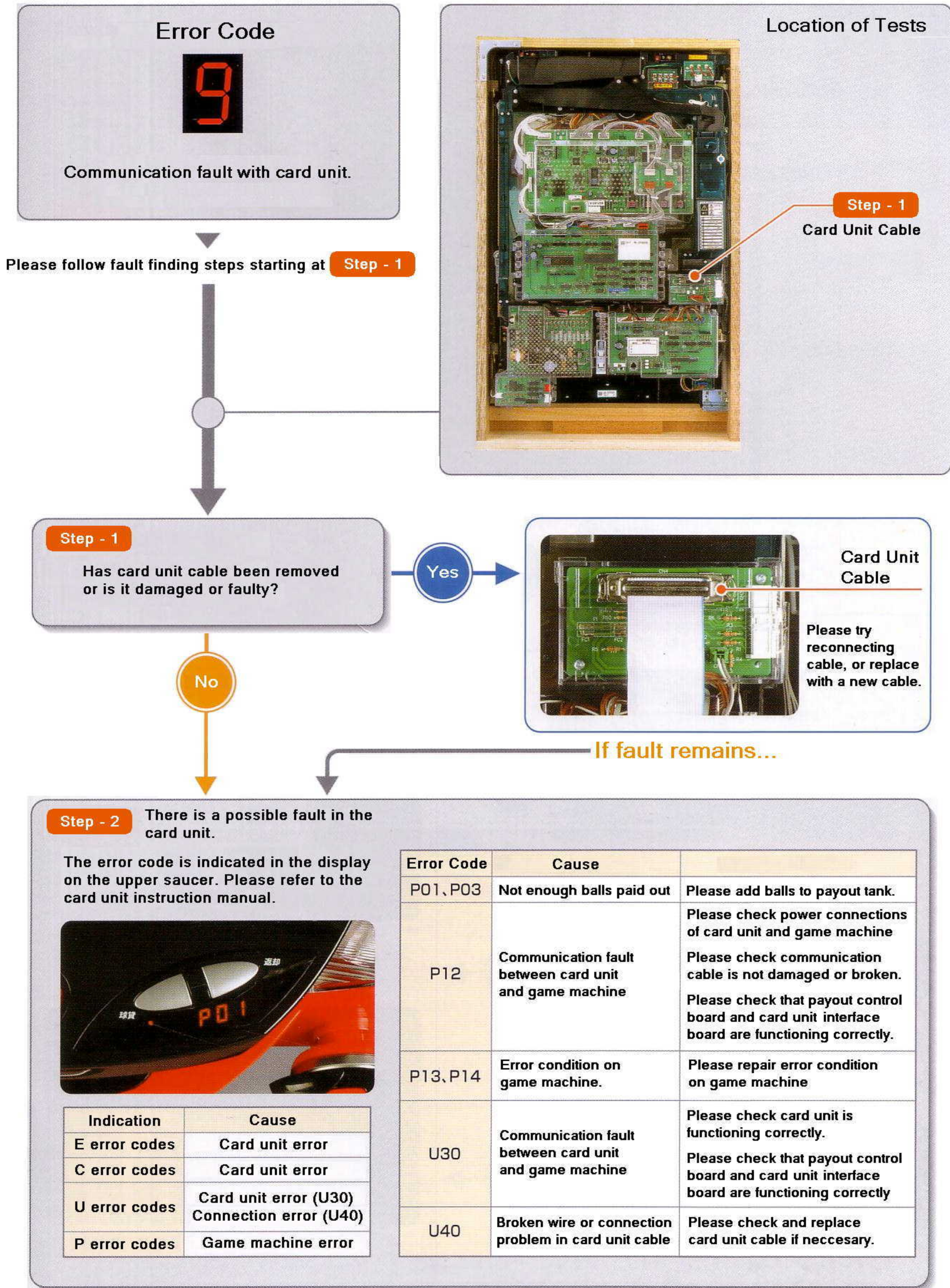
Step - 3 Please replace payout control board. See page 24 for replacement instructions.

If fault remains...



If after checking and replacing items indicated in fault finding steps above problem is not solved, please contact dealer.

Error Codes and Fault Finding



If after checking and replacing items indicated in fault finding steps above problem is not solved, please contact dealer.

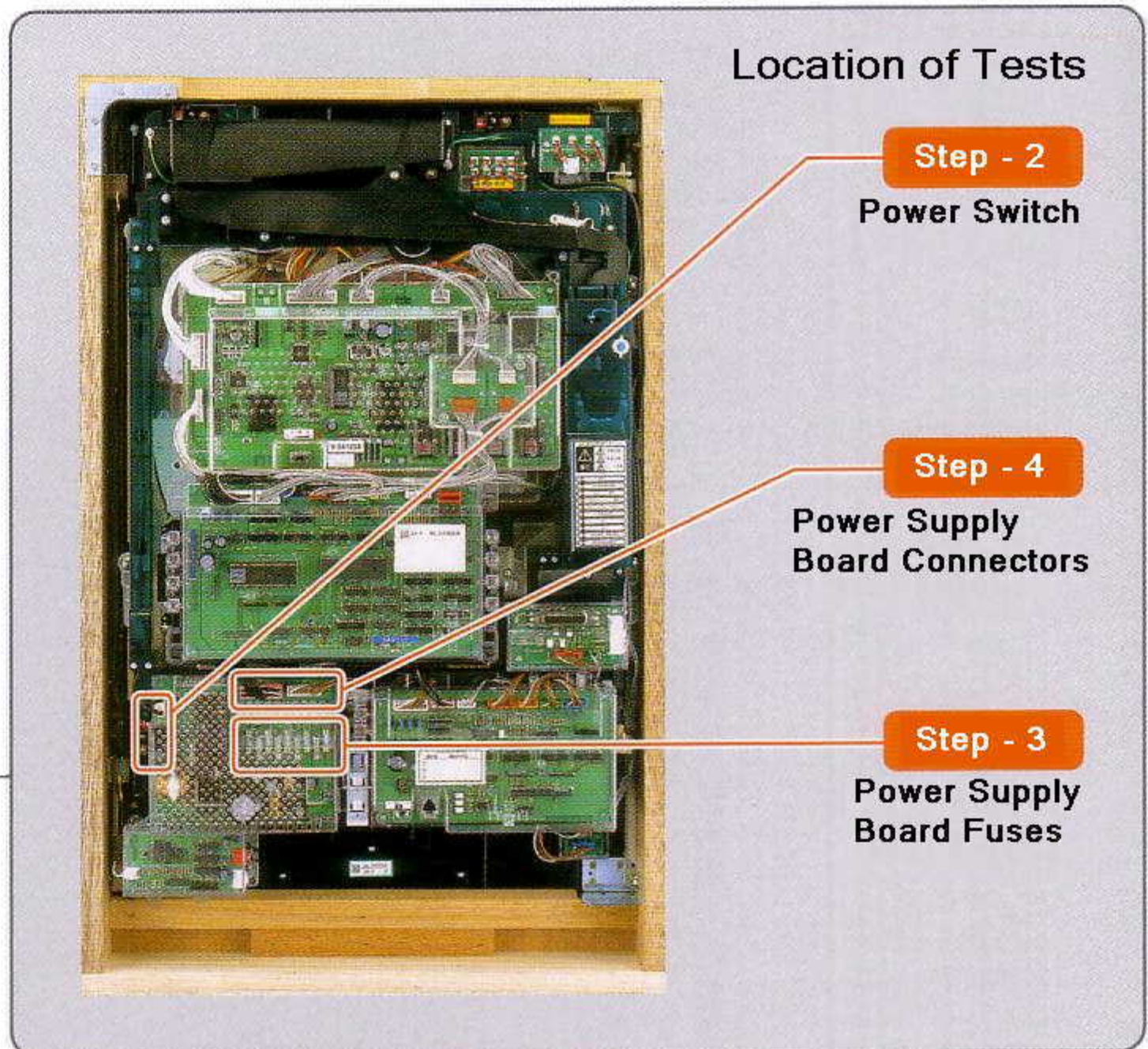
Fault Finding

Fault Symptoms

No Power

Please follow fault finding steps starting at **Step - 1**

Location of Tests



Step - 2

Power Switch

Step - 4

Power Supply Board Connectors

Step - 3

Power Supply Board Fuses

Step - 1

Has AC cord become disconnected from AC24V outlet ?

Yes

Please reconnect AC cord to AC24V outlet.

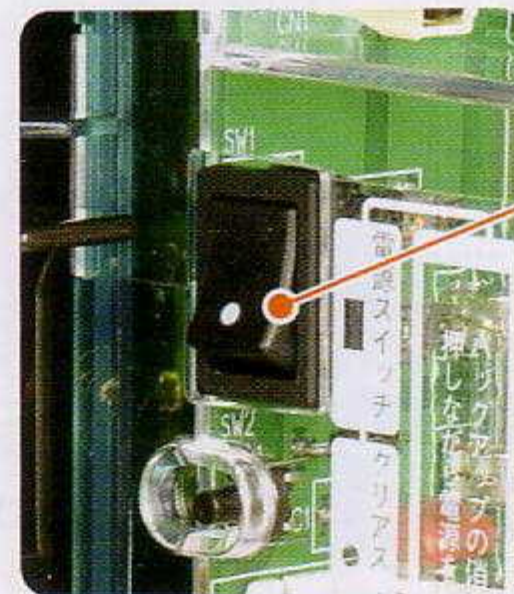
No

If fault remains...

Step - 2

Has the power switch been turned off?

Yes



Power Supply Switch

Please turn power supply switch to the ON position.

No

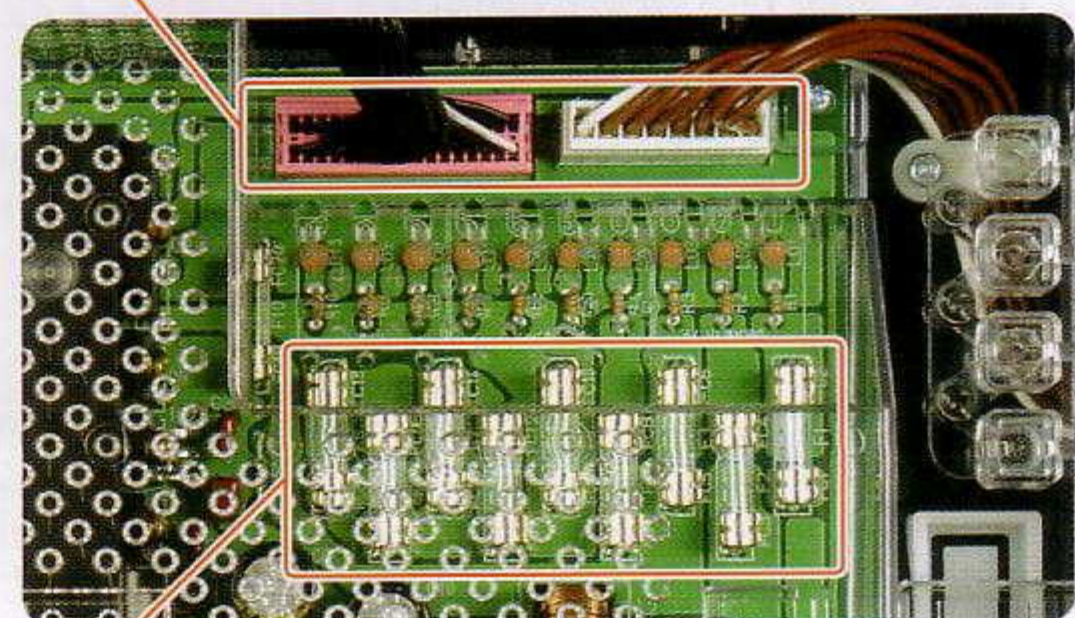
Step - 3

Have any of the fuses on the power supply board blown?

Yes

Power Supply Board Connectors

Please try unplugging/reconnecting connector or replace with new cable.



Power Supply Board Fuses

Please change blown fuses (see page 27).

No

Step - 4

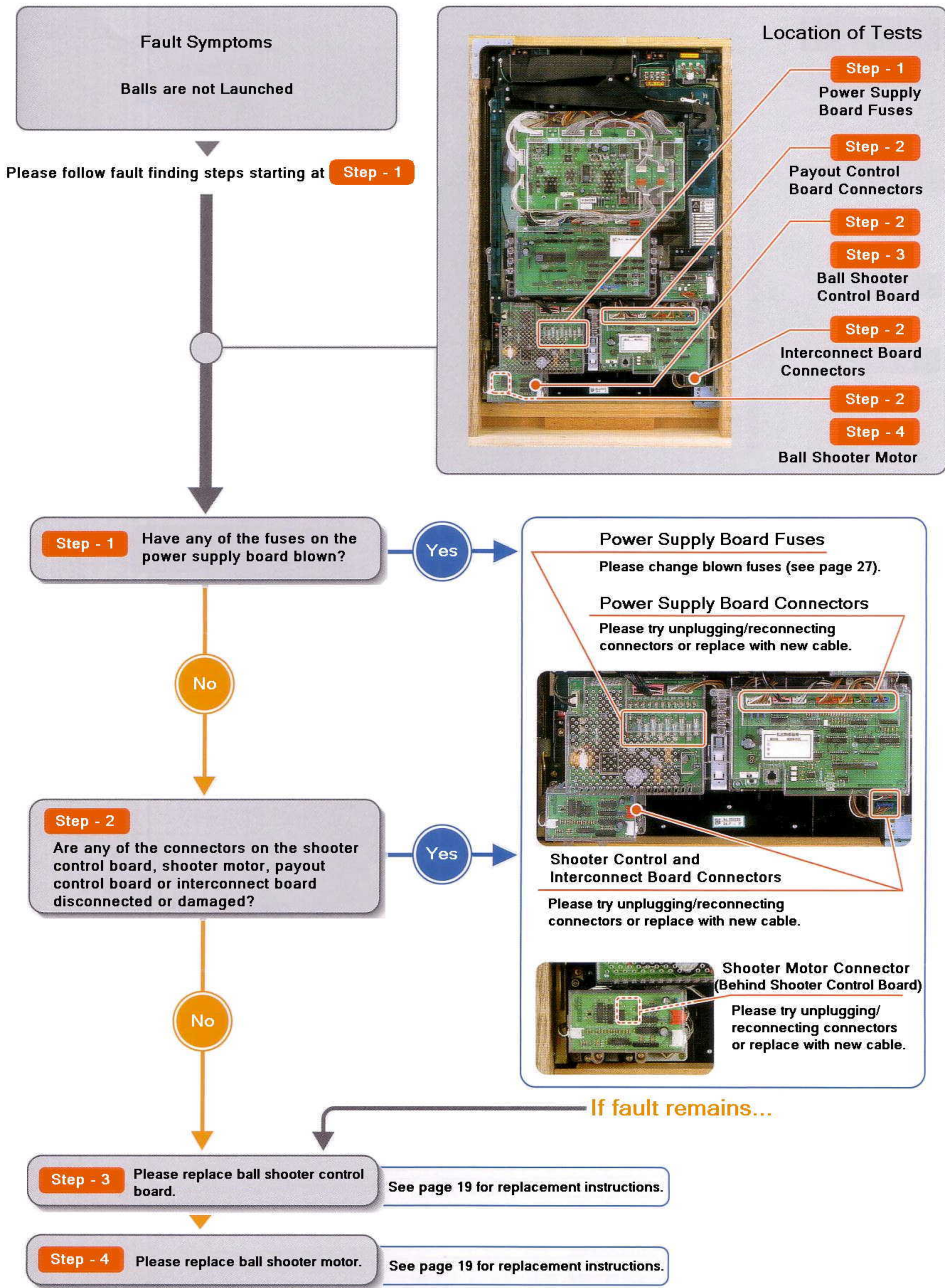
Have any connectors on the power supply board been disconnected or damaged?

Yes



If after checking and replacing items indicated in fault finding steps above, problem is not solved, please contact dealer.

Fault Finding



If after checking and replacing items indicated in fault finding steps above, problem is not solved, please contact dealer.

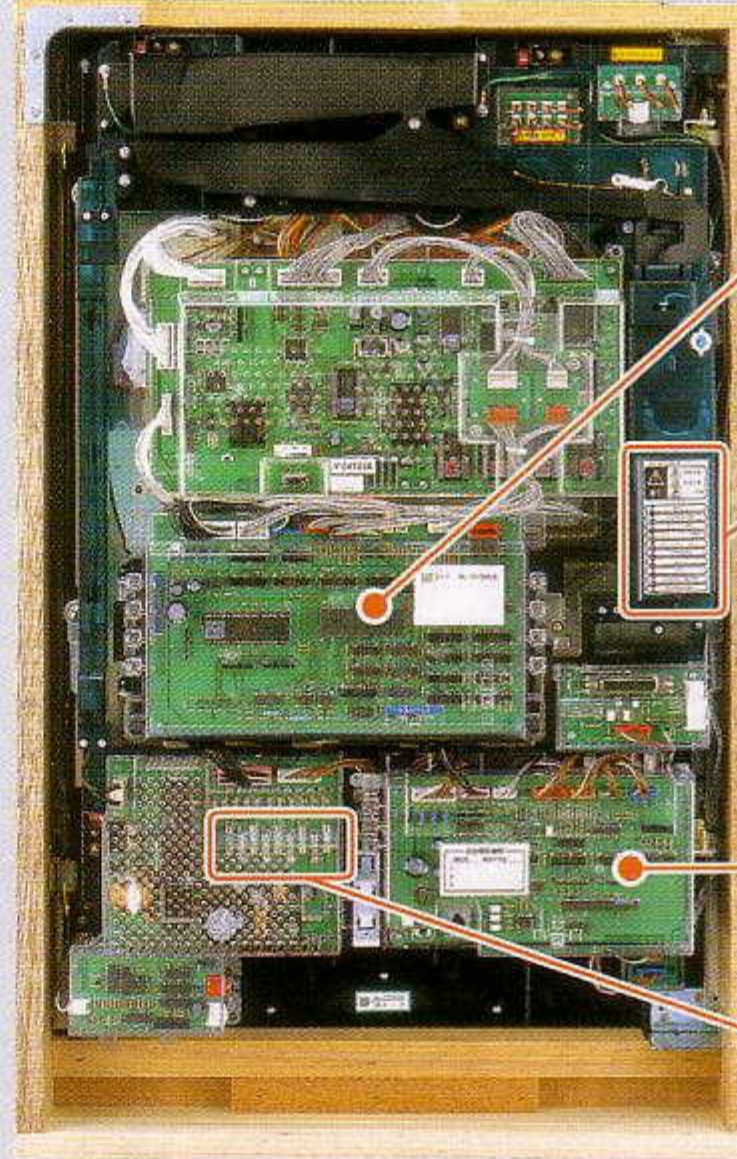
Fault Finding

Fault Symptoms

No Prize Ball Payout

Please follow fault finding steps starting at **Step - 1**

Location of Tests



Step - 2

Step - 5

Main Control Board

Step - 2

Step - 3

Payout Unit

Step - 2

Step - 4

Payout Control Board

Step - 1

Power Supply Fuses

Step - 1 Have any of the fuses on the power supply board blown?

Yes

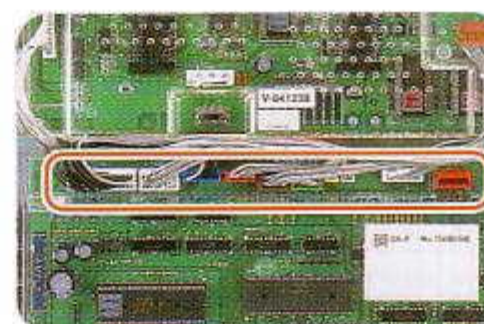
Power Supply Board Fuses

Please change blown fuses.



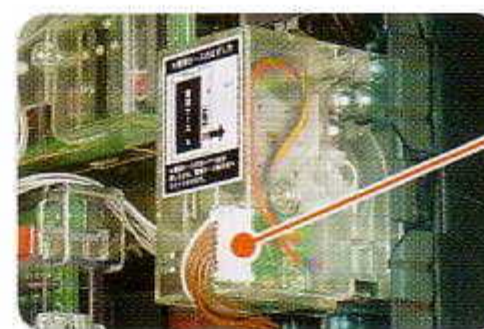
Payout Control Board Connectors

Please try unplugging/reconnecting connector or replace with new cable.



Main Control Board Connectors

Please try unplugging/reconnecting connector or replace with new cable.



Payout Unit Connector

Please try unplugging/reconnecting connector or replace with new cable.

No

Step - 2

Are any of the connectors on the main control board, payout control board, or payout unit disconnected or damaged?

Yes

No

If fault remains...

Step - 3 Please replace payout unit.

See page 20 for replacement instructions.

Step - 4 Please replace payout control board.

See page 24 for replacement instructions.

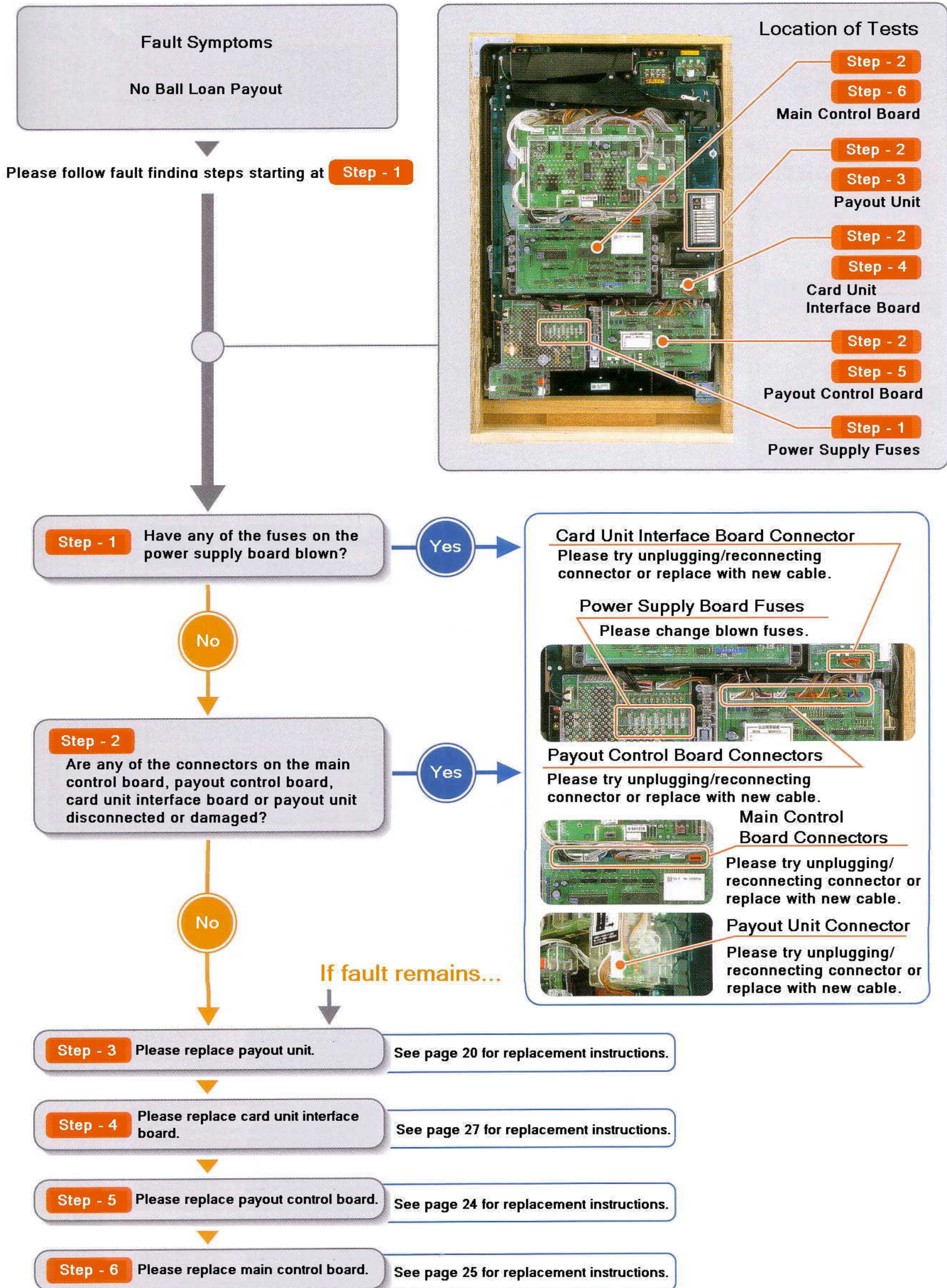
Step - 5 Please replace main control board.

See page 25 for replacement instructions.



If after checking and replacing items indicated in fault finding steps above, problem is not solved, please contact dealer.

Fault Finding



If fault remains...

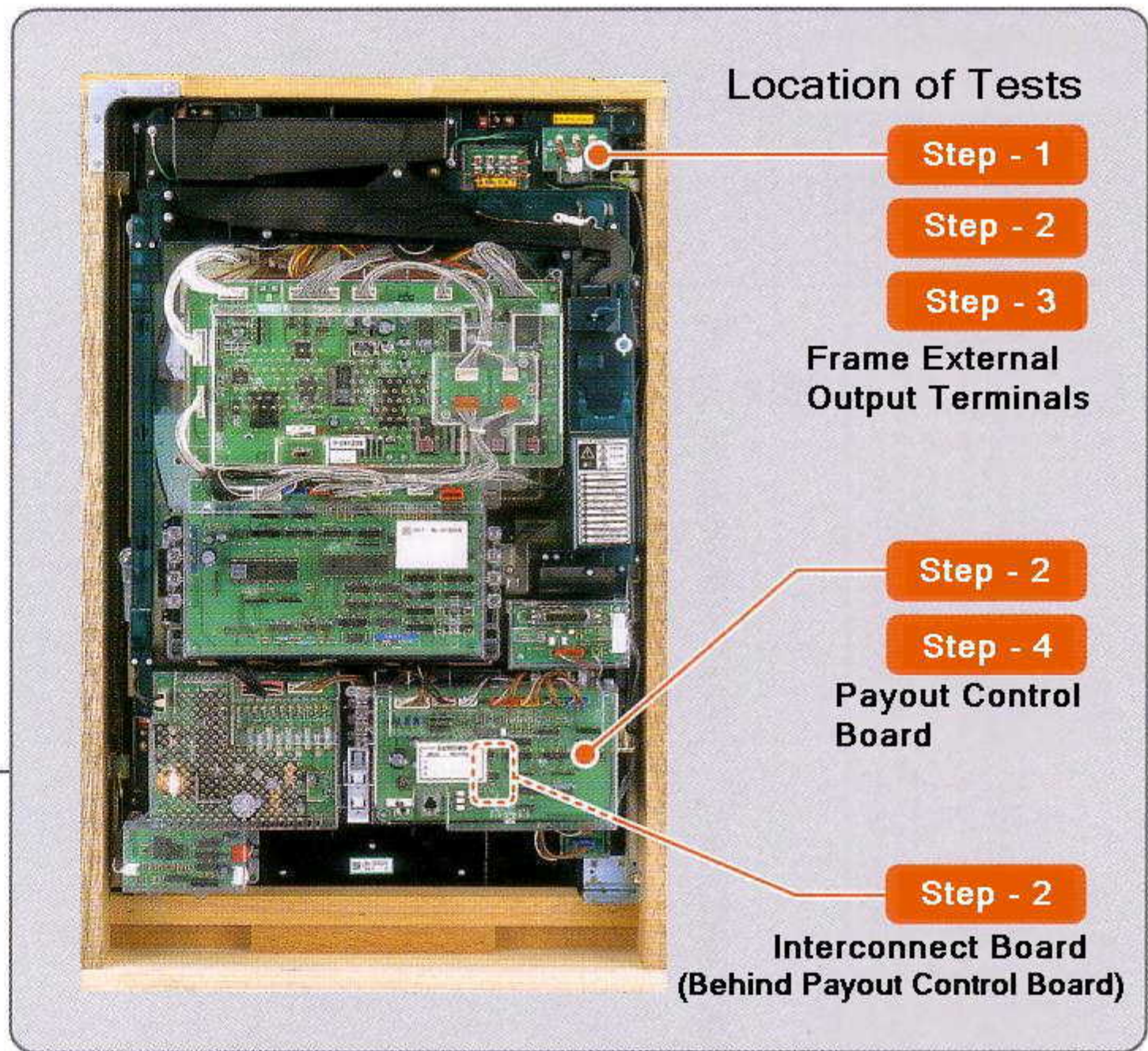


If after checking and replacing items indicated in fault finding steps above, problem is not solved, please contact dealer.

Fault Finding

Fault Symptoms
No Prize Ball Signal Output

Please follow fault finding steps starting at **Step - 1**

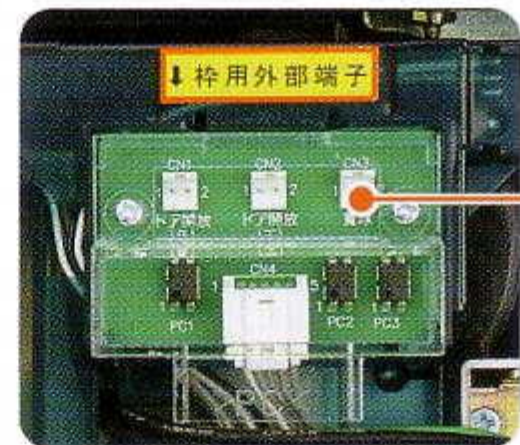


Step - 1 Please check connections to the frame external output terminals.

If fault remains...

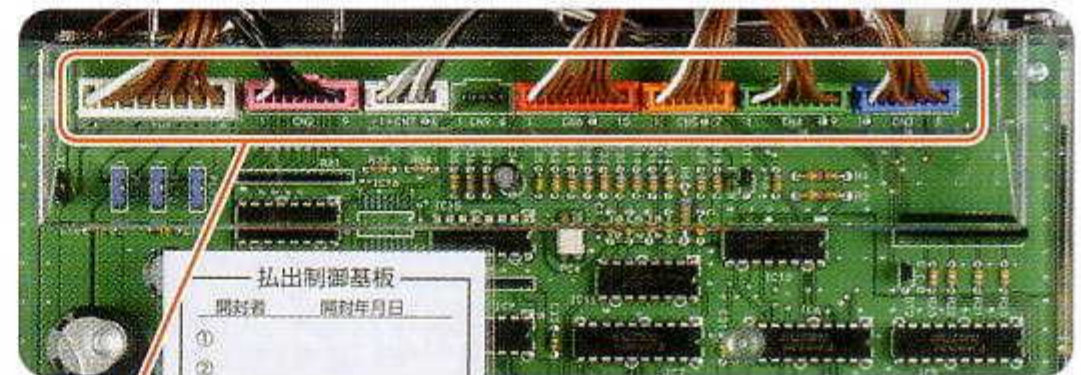
Step - 2 Are any of the connectors on the frame external output terminal board, payout control board or interconnect board disconnected or damaged?

Yes



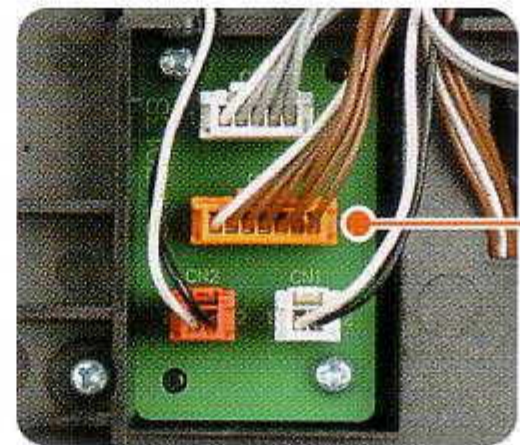
Frame External Output Terminals Board

Please try unplugging/reconnecting connector or replace with new cable.



Payout Control Board Connectors

Please try unplugging/reconnecting connector or replace with new cable.



Interconnect Board Connectors

Please try unplugging/reconnecting connector or replace with new cable.

If fault remains...

Step - 3 Please replace frame external output terminals board.

Step - 4 Please replace payout control board. See page 24 for replacement instructions.



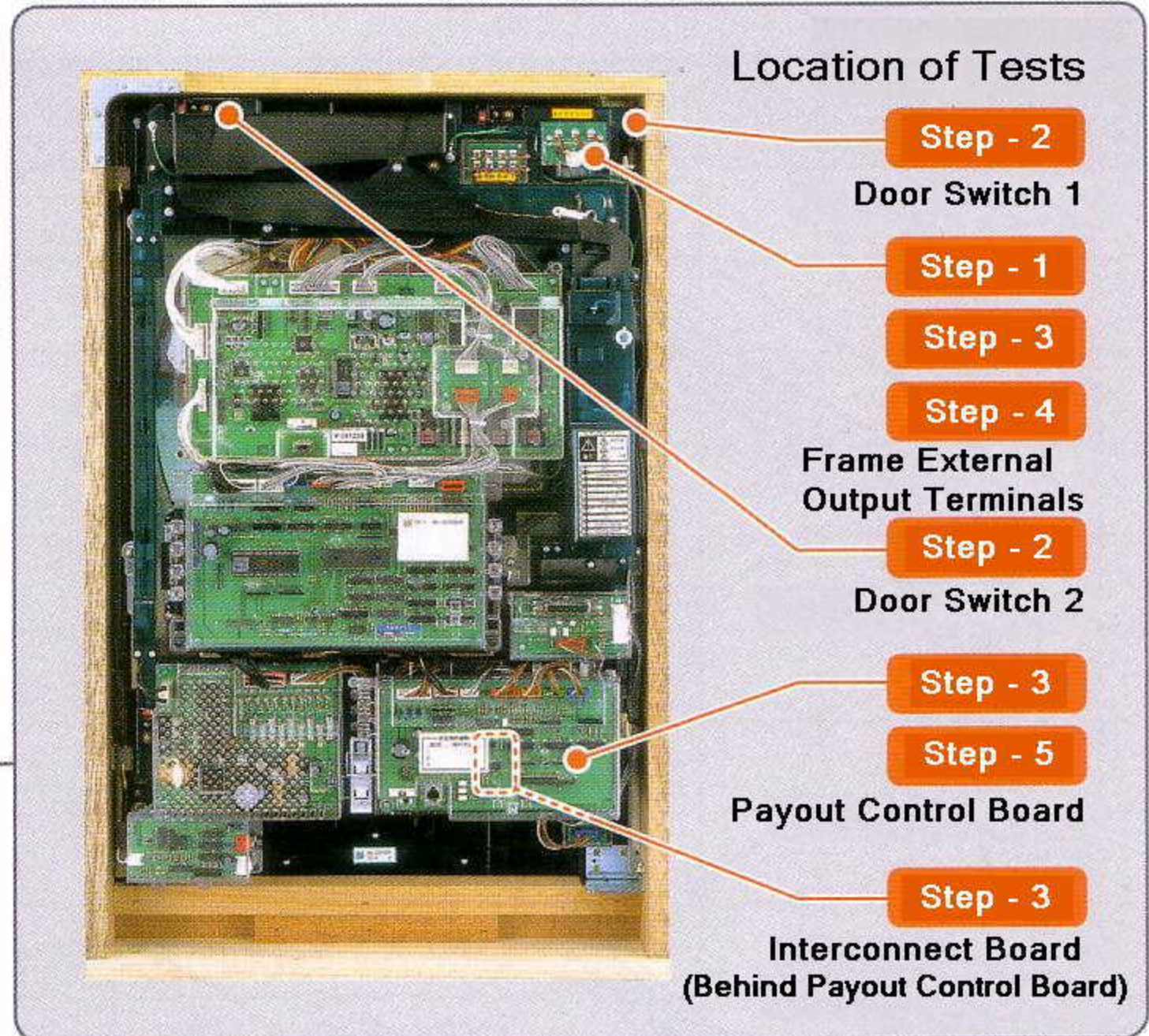
If after checking and replacing items indicated in fault finding steps above, problem is not solved, please contact dealer.

TROUBLESHOOTING

Fault Finding

Fault Symptoms
No Door Open Signal Output

Please follow fault finding steps starting at **Step - 1**

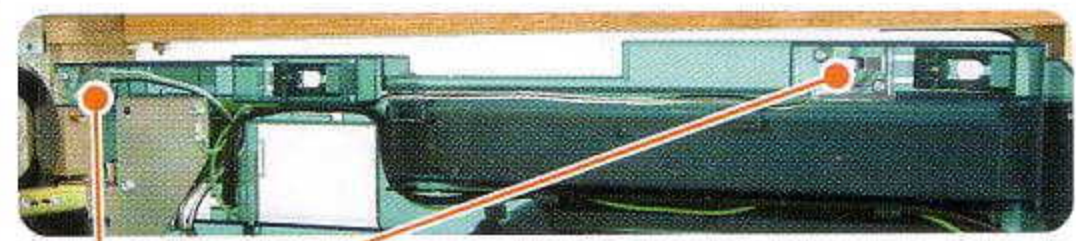


Step - 1 Please check connections to the frame external output terminals.

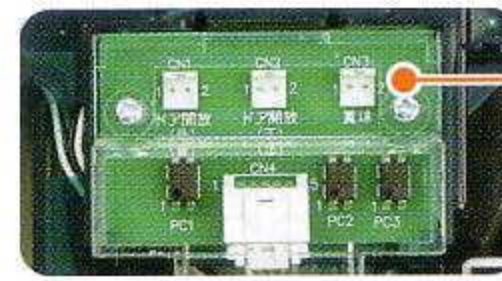
If fault remains...

Step - 2 Have the door switches been damaged or are they faulty?

Yes



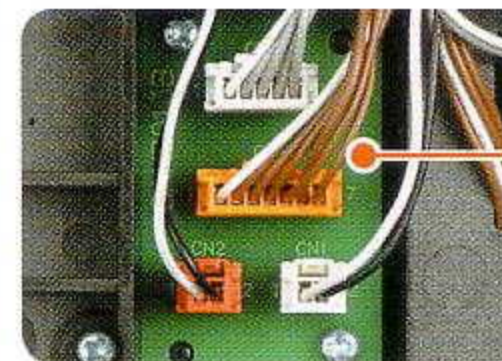
Door Switches
Please replace faulty door switches
Frame External Output Terminals



Please try unplugging/reconnecting connector or replace with new cable.



Payout Control Board Connectors
Please try unplugging/reconnecting connector or replace with new cable.



Interconnect Board Connectors
Please try unplugging/reconnecting connector or replace with new cable.

No

Step - 3 Are any of the connectors on the frame external output terminal board, payout control board or interconnect board disconnected or damaged?

Yes

No

If fault remains...

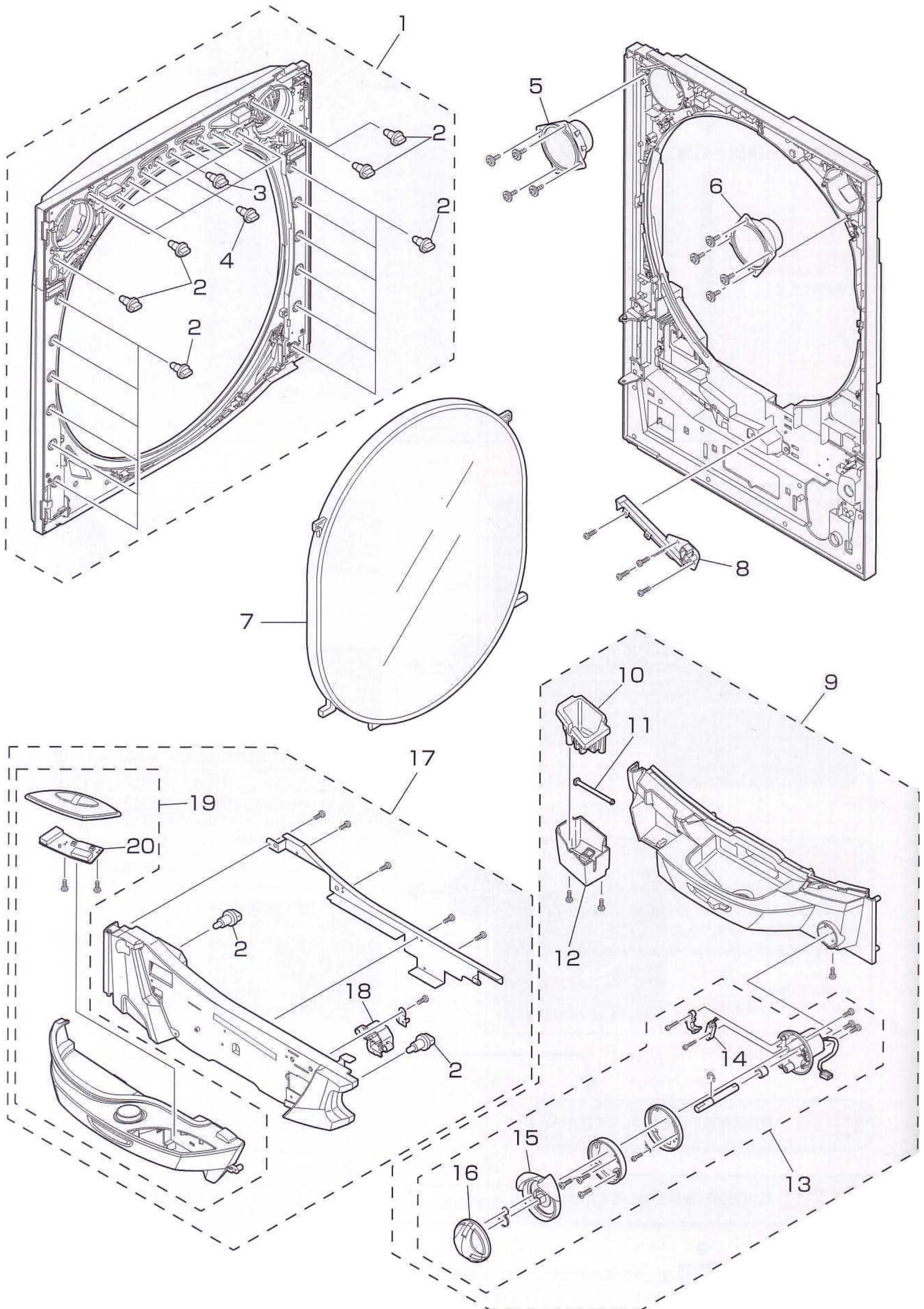
Step - 4 Please replace frame external output terminals board.

Step - 5 Please replace payout control board. See page 24 for replacement instructions.



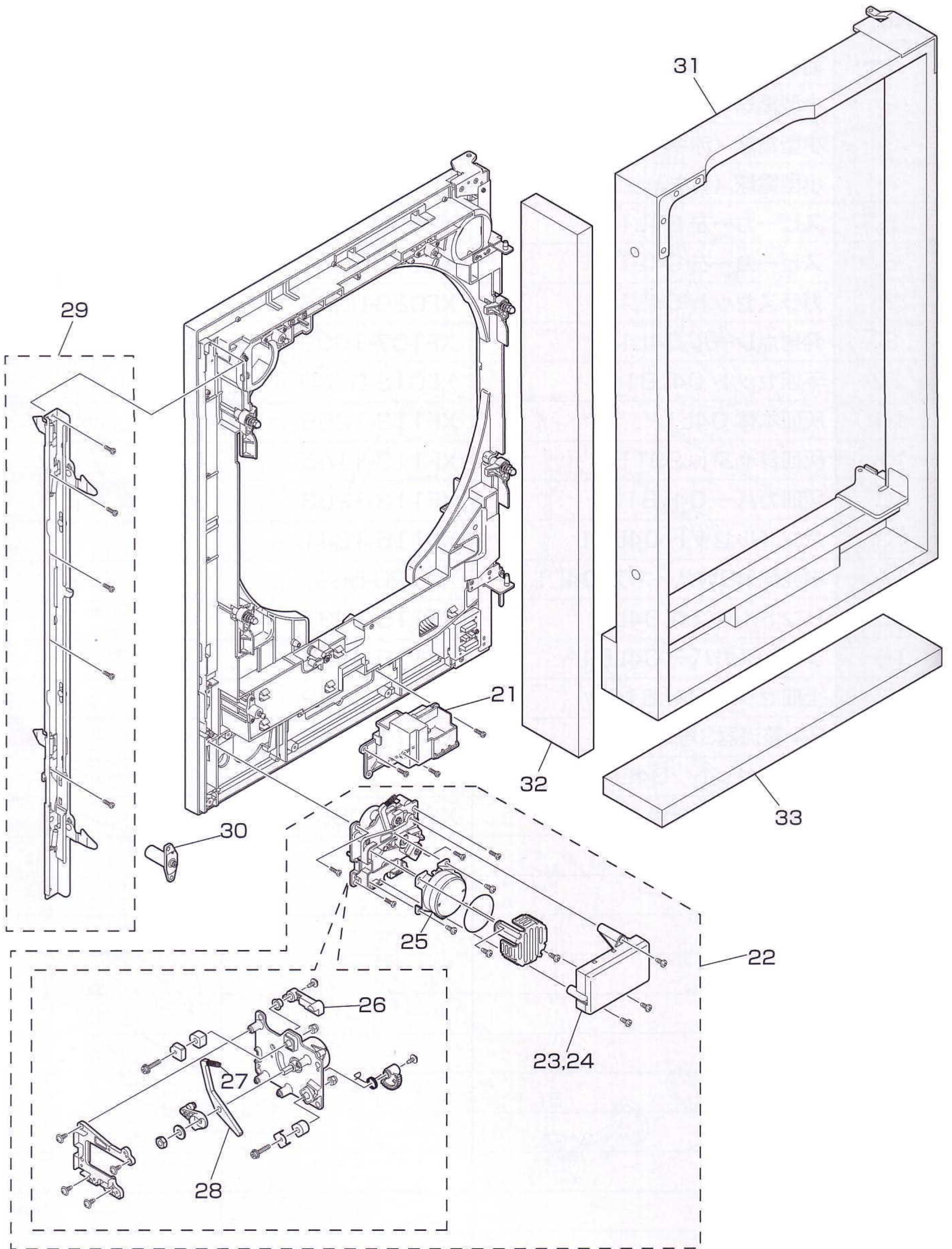
If after checking and replacing items indicated in fault finding steps above, problem is not solved, please contact dealer.

Front of Machine



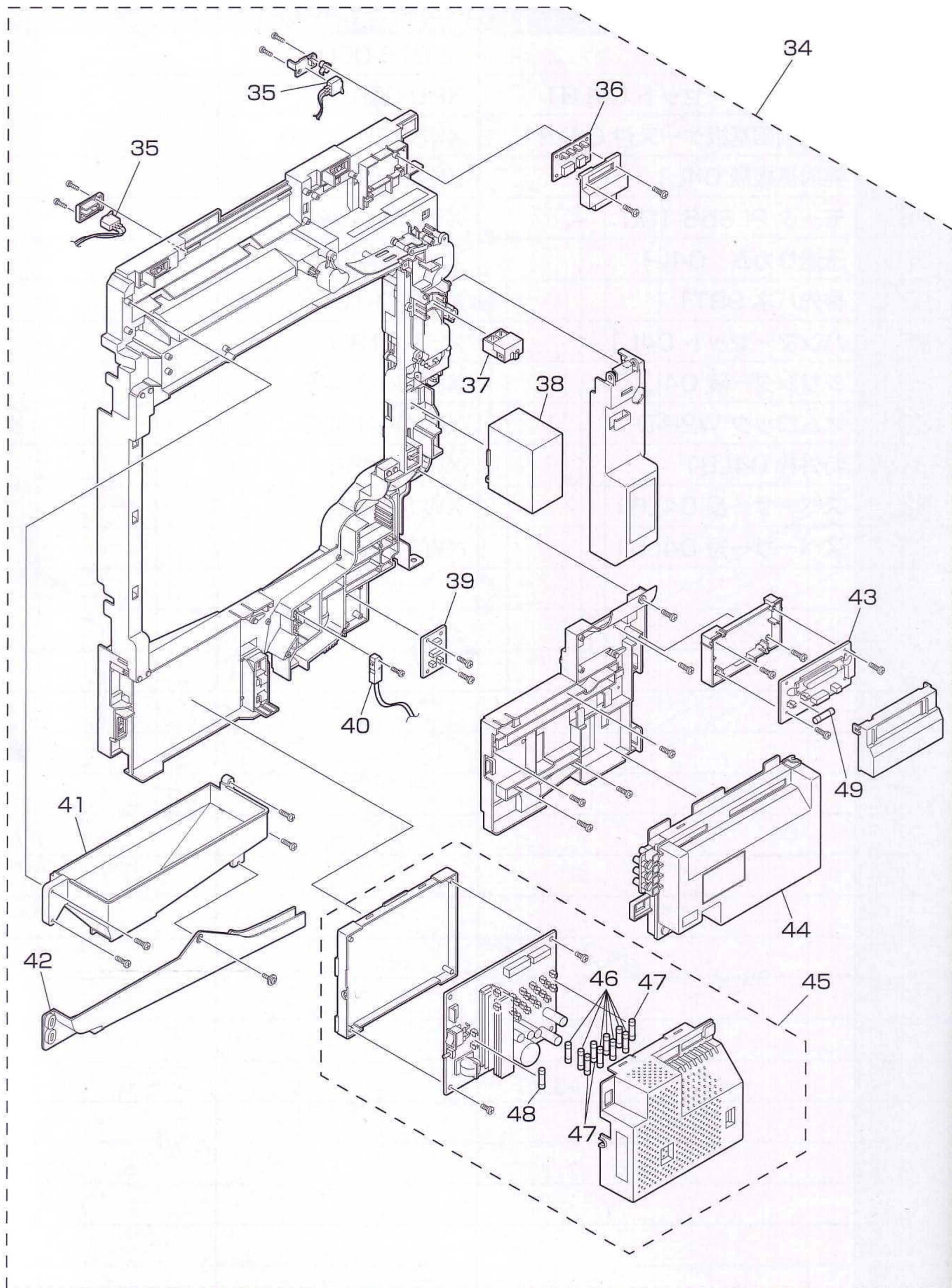
PARTS LIST

Back of Machine



PARTS LIST

Sun Pack



PARTS LIST

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