



THE DERBY MARK-VI
V8
8 HORSE SPEC.

Installation Manual

CODE NO. 8800-00181

INTRODUCTION

This INSTALLATION MANUAL is intended for qualified service personnel, and provides the important information about how to install Sigma Horse Racing Machine, THE DERBY MARK-VI V8.

It is strongly recommended to thoroughly read and understand this manual in conjunction with our Operation Manual, Maintenance Manual, and Service Manual. Please always keep this manual at hand, so that you can quickly refer to it whenever necessary.

TECHNICAL SUPPORT

If you have any question or request, or when you want our technical support, please contact your nearest distributor.

HANDLE THIS MACHINE SAFELY AND CORRECTLY

SAFETY INSTRUCTIONS

1. Definition of Safety Words

The following safety words (DANGER, WARNING, and CAUTION) are used in this manual to indicate hazard levels. Please understand each meaning to handle the machine safely.

DANGER



It warns of the immediate hazards which **WILL** result in severe personnel injury or death.

WARNING



It warns of the hazards or unsafe practices which **COULD** result in severe personal injury or death.

CAUTION



It warns of the hazards or unsafe practices which **COULD** result in minor personal injury or product or property damage.

CHECK



It indicates a check or reference item for preventing hazards and malfunctions.

2. Specifications

- Exclusive power source of 30A must be necessary.
- Rated voltage:
 - a) Europe 230VAC, 50Hz
 - b) Korea 220VAC, 60Hz
 - b) Other areas 220/230/240VAC, 50/60Hz
110/120VAC, 50/60Hz
- Maximum current draw:
 - 45A (60Hz) at 120VAC
 - 21A (50Hz) at 220, 230, 240VAC
- Power cable: Three-core cable
- Temperature: 5 to 35 degrees C
- Humidity: 30 to 60%, Free from dew condensation



WARNING !

To prevent an accident or a fire;

- Do not install this machine on unstable floor (ex. slope or difference in level).
- Keep this machine away from the direct ray of the sun.
- Keep this machine away from a dusty place.
- Keep this machine away from water.
- Keep this machine away from disaster preventive facilities
(ex. emergency exit, emergency stairs, fire hydrant, fire extinguisher).
- Install this machine on well-constructed floor.
- Do not install this machine outdoors.
- Keep this machine away from vibration.
- Keep this machine away from dangerous articles.

3. Handling of Monitors

Although the given monitors are protected from the danger of electric shock, please handle them carefully by referring to our Service Manual.

If a problem persists even after adjustment, please contact to your nearest distributor.



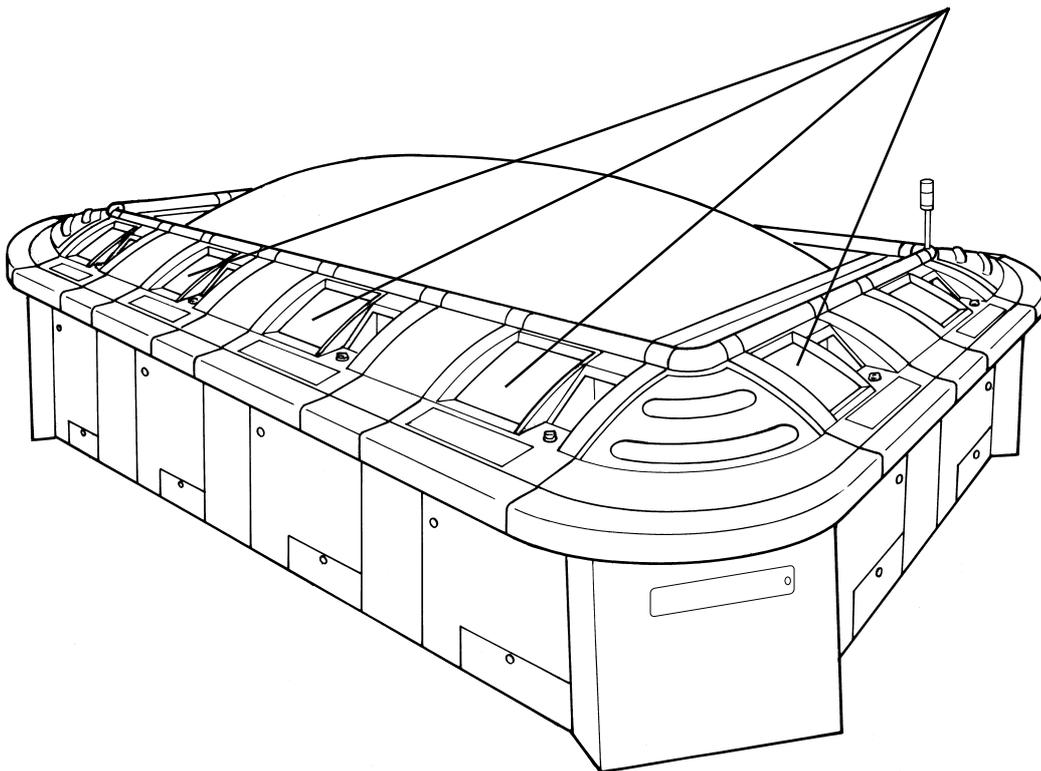
DANGER !

HIGH VOLTAGE

Risk of Electric Shock

Never retrofit.

Never retrofit the monitors.



4. Grounding

Be sure to properly GROUND this machine to prevent a current leak.



WARNING !

Risk of Electric Shock.

The power code consists of 3 wires of HOT, NEUTRAL, and GND.

Always connect the GND to the specified terminal (on the terminal block).

SIGMA makes no warranty as to the accidents (including failures) caused by improper grounding.

5. Others

Please observe the following for your safety.



WARNING !

NEVER retrofit the machine. Retrofitting the machine could cause an accident or a failure.

SIGMA makes no warranty as to the accidents (including failures) caused by retrofit.

- Only qualified personnel can assemble, install, maintain, inspect, and troubleshoot the machine.
- Do not mount or sit on the machine. Or, do not put a heavy object on the machine. The dented machine could cause a trouble.
- As soon as smoke, a stink and/or an unknown trouble is detected, turn off the POWER switch and the power source breakers.

- Never use a tester for continuity check. Using a tester will cause a trouble.
- Never use chemical duster, thinner, benzine, or alcohol for cleaning the machine. They will damage the surface of the machine. Diluted synthetic detergent can be used if necessary, but completely wipe it up with dry cloth thereafter.
- Use this machine in commercial area. The use in other area is prohibited.

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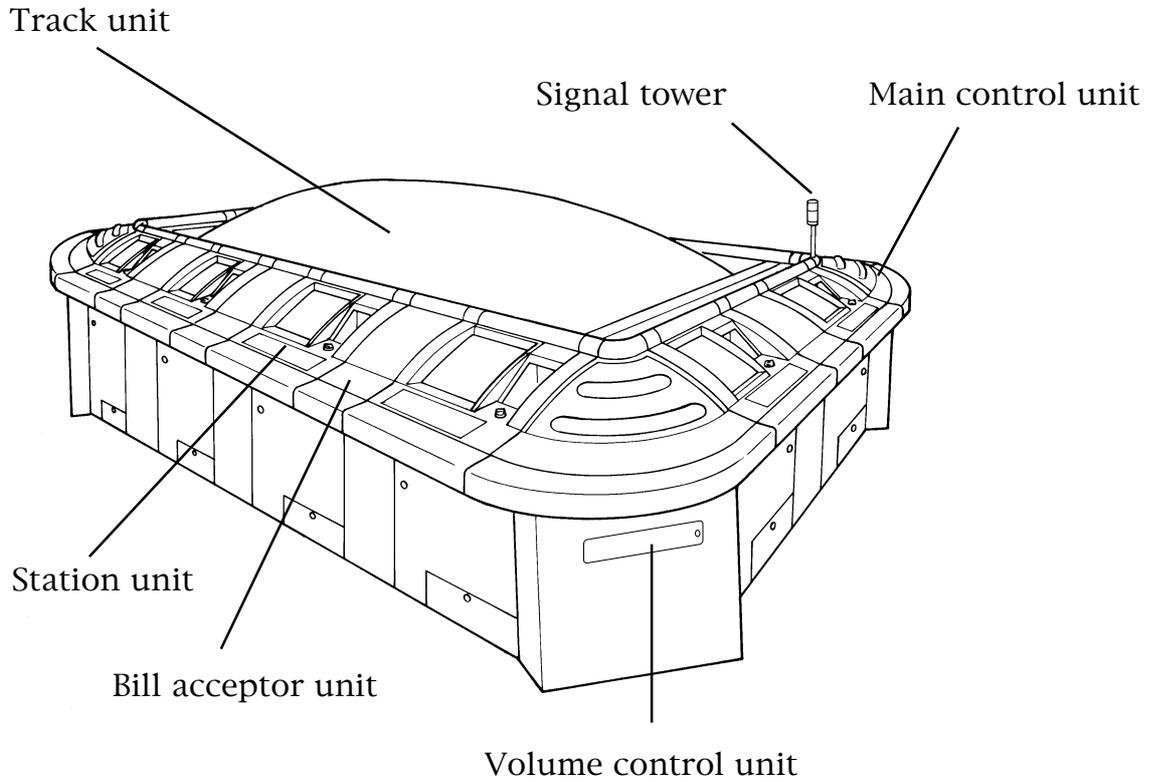
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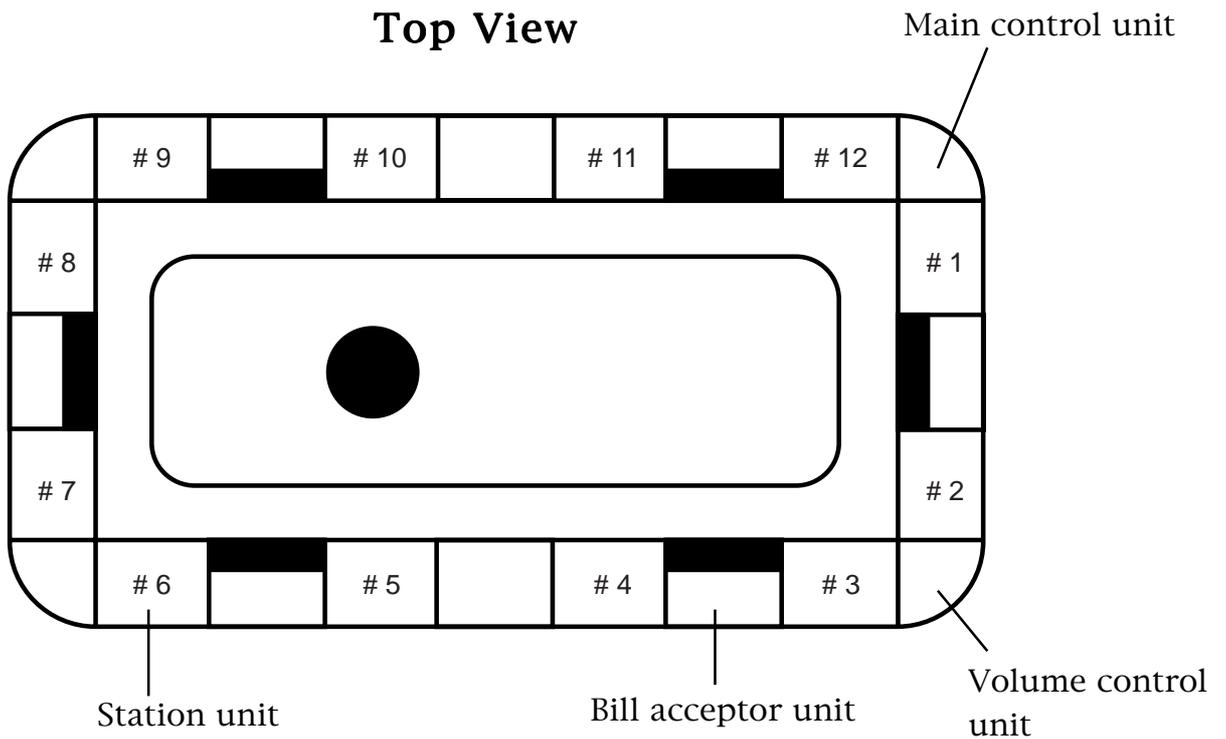
INSTALL CHECK LIST

1. MAJOR COMPONENTS

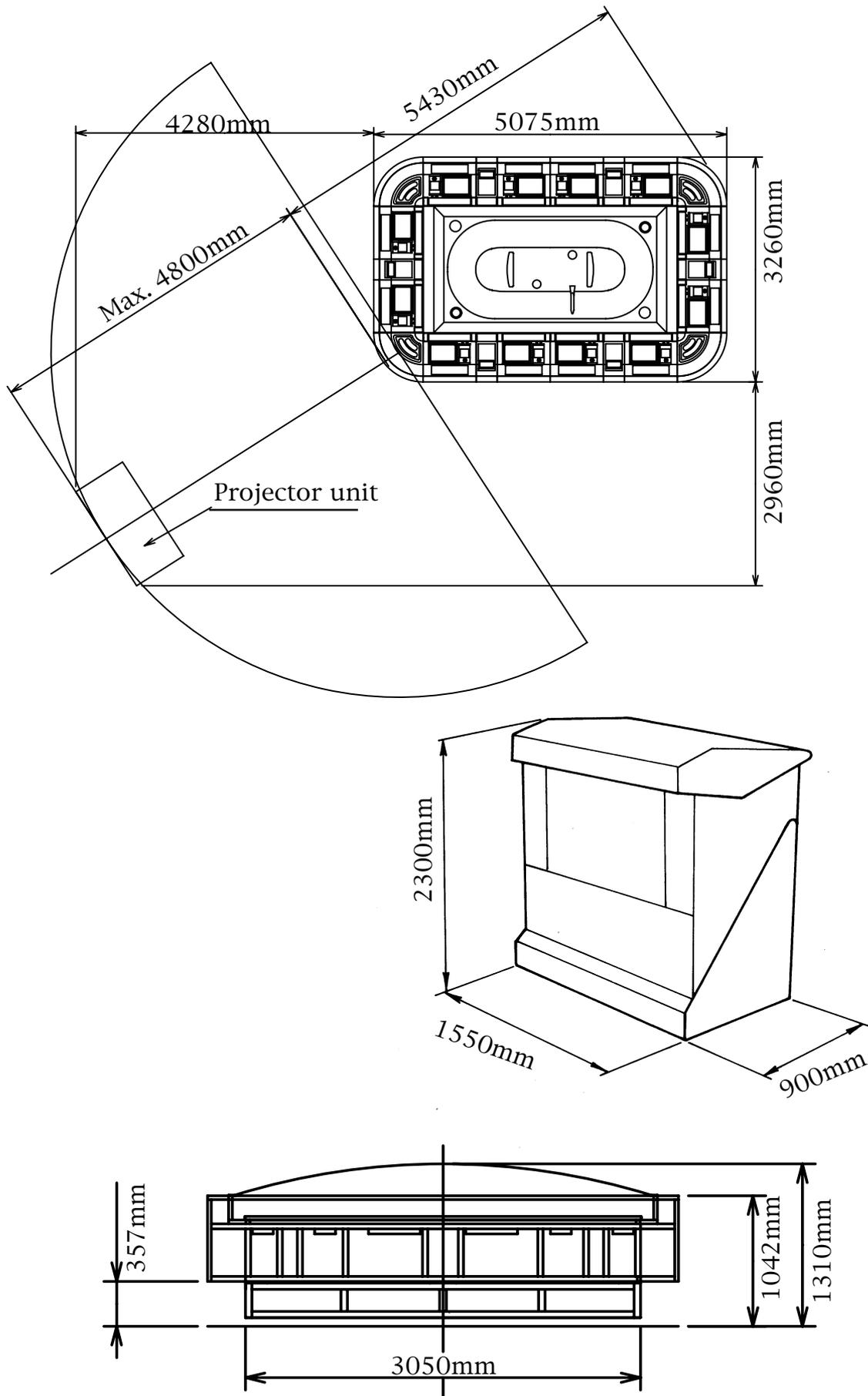
1.1 Configuration



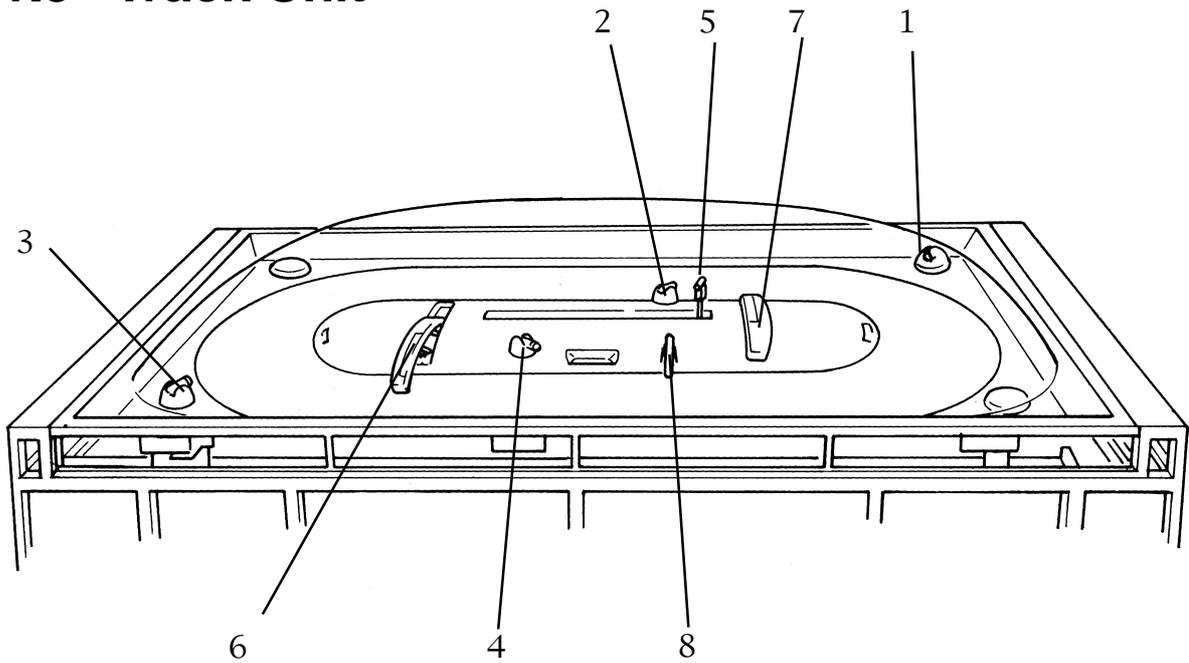
Top View



1.2 Overall Dimension

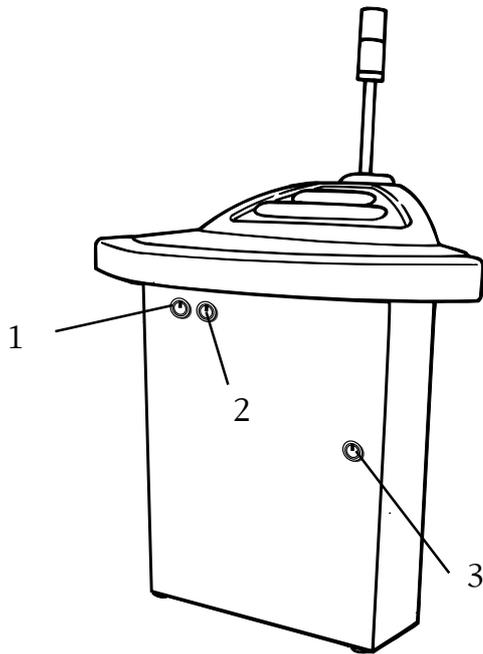


1.3 Track Unit

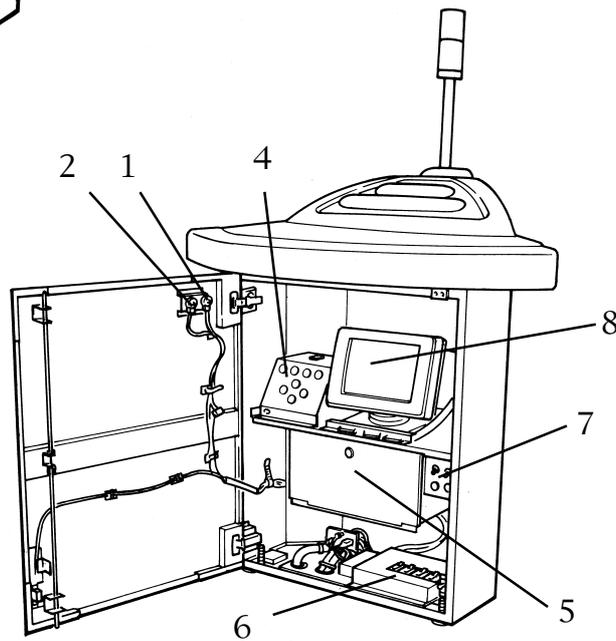


1. CCD Camera #1
2. CCD Camera #2
3. CCD Camera #3
4. CCD Camera #4
5. CCD Camera #5
6. Starting gate for long-distance race
7. Starting gate for short-distance race
8. Goal Gate

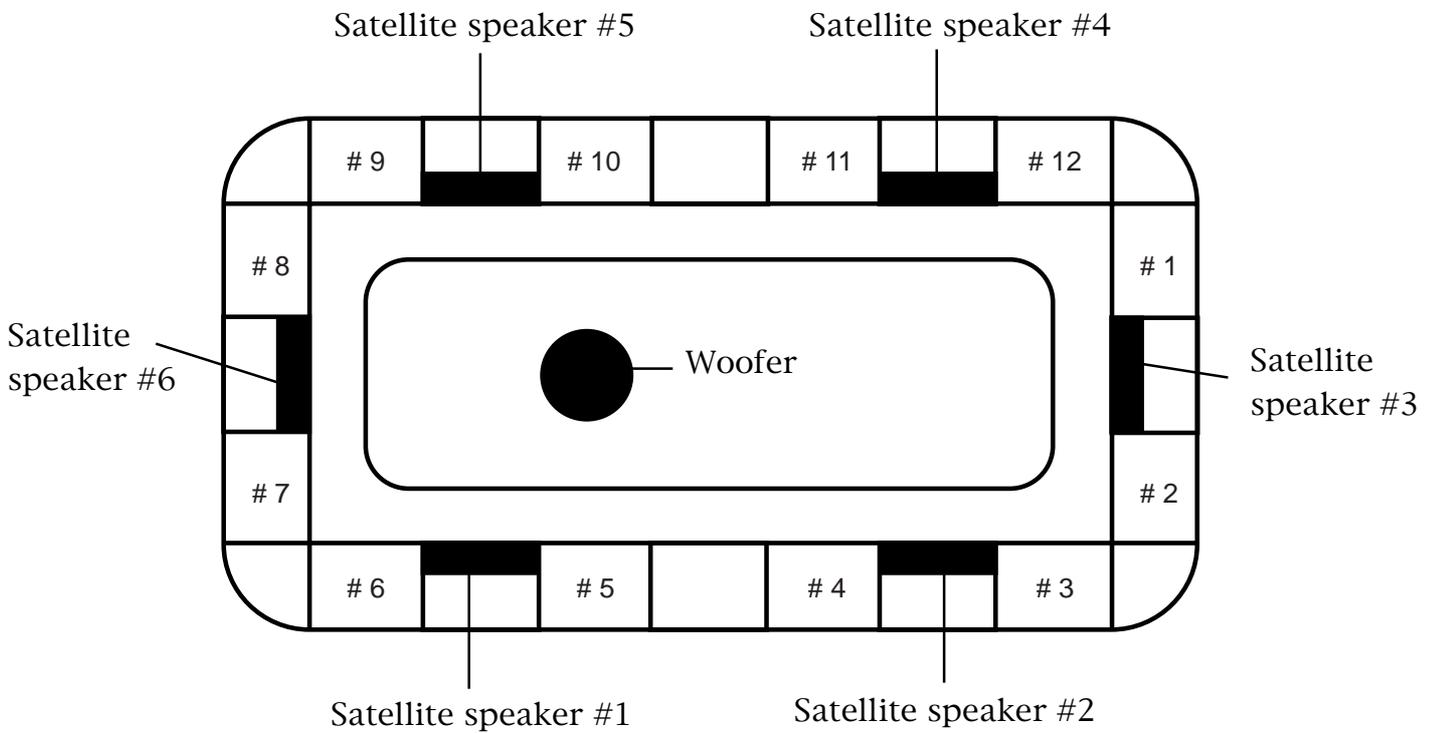
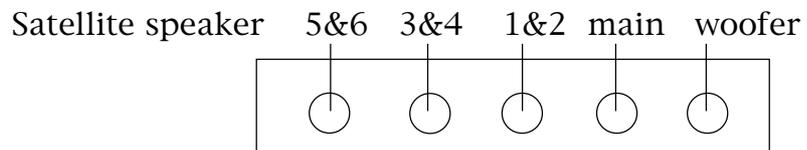
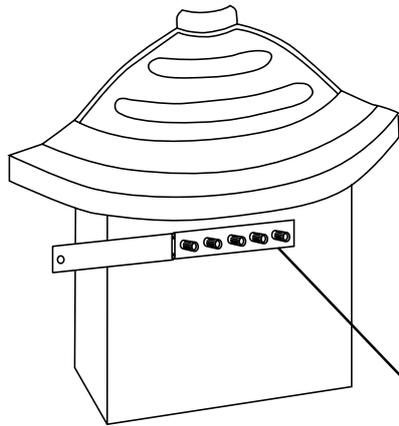
1.4 Main Control Unit



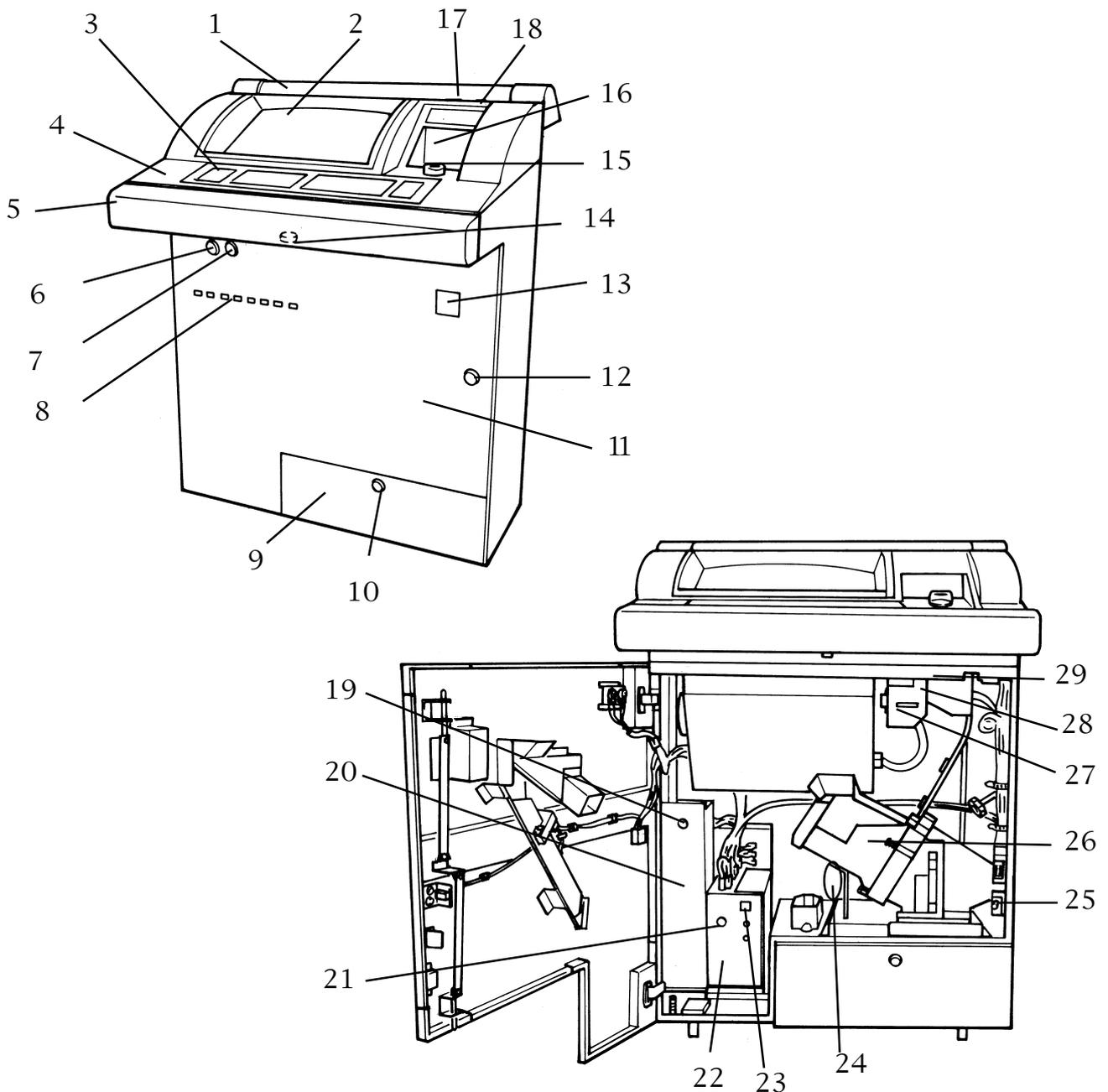
1. RESET key switch
2. METER key switch
3. Door lock
4. Setting buttons
5. Main PCB box
6. Power breakers
7. Dome/field elevating switches
8. Main monitor



1.5 Volume Control Unit

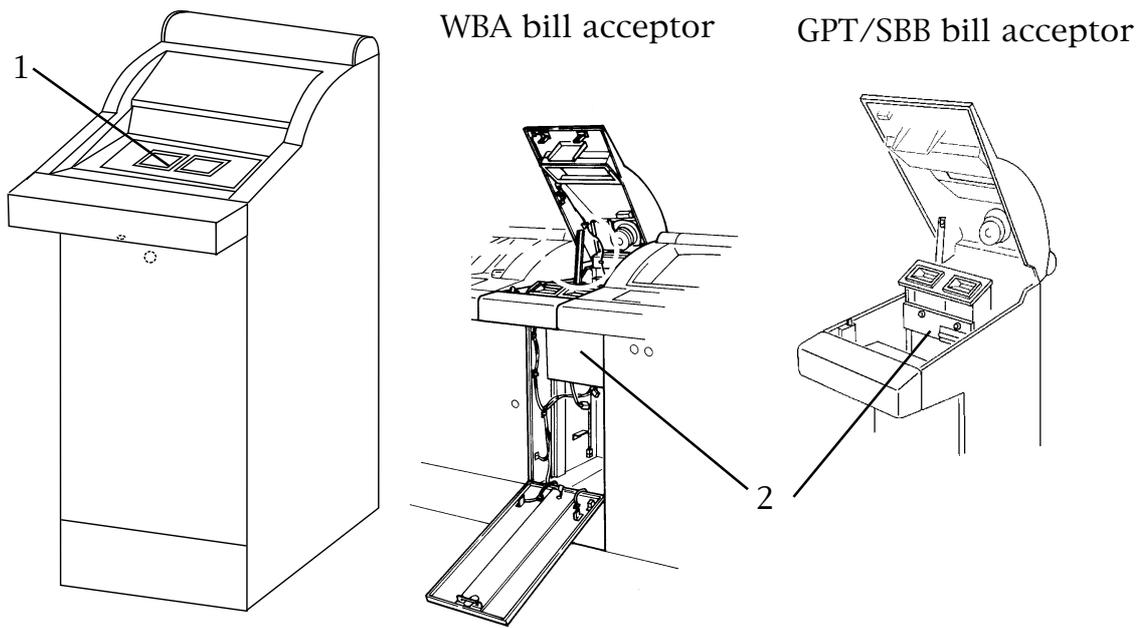


1.6 Station Unit



- | | | |
|--------------------------|----------------------------------|---------------------|
| 1. WIN lamp | 2. Monitor | 3. Betting buttons |
| 4. Upper door | 5. Arm rest | 6. RESET key switch |
| 7. METER key switch | 8. Mechanical meters | 9. Cash box |
| 10. Cash box door lock | 11. Front door | 12. Front door lock |
| 13. Coin return tray | 14. Upper door lock | 15. Coin entry |
| 16. Coin cup | 17. CALL ATTENDANT button | |
| 18. CREDIT-UP key switch | 19. PCB box door lock | 20. PCB box |
| 21. REFILL button | 22. Power box | 23. Power switch |
| 24. Spill bottle | 25. Front door interlock switch. | |
| 26. Hopper | 27. Coin diverter | 28. COIN-IN sensor |
| 29. Coin acceptor | | |

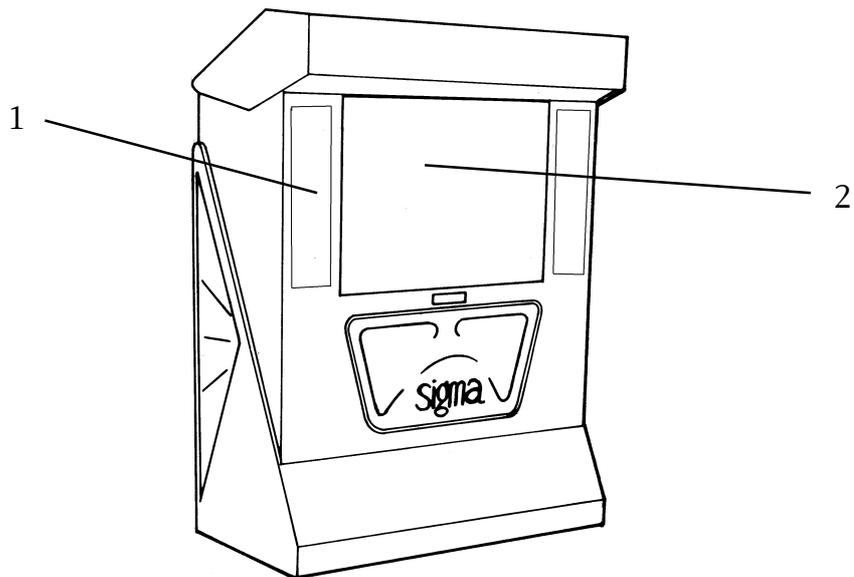
1.7 Bill Acceptor Unit



1. Bill validator

2. Bill stacker container

1.8 Projector Unit (Upright Unit)



1. Speaker

2. Projector screen

2. UNPACKING AND INSPECTION

2.1 Packing List

Check the following items for shipping damage. If any damage is found, immediately report it to Sigma Inc. or your nearest distributor.

Package No	Name	Dimension (W x D x H)	Weight (kg)
1/23	Station Unit No. 1	760 x 720 x 1120	117
2/23	Station Unit No. 2	760 x 720 x 1120	117
3/23	Station Unit No. 3	760 x 720 x 1120	117
4/23	Station Unit No. 4	760 x 720 x 1120	117
5/23	Station Unit No. 5	760 x 720 x 1120	117
6/23	Station Unit No. 6	760 x 720 x 1120	117
7/23	Station Unit No. 7	760 x 720 x 1120	117
8/23	Station Unit No. 8	760 x 720 x 1120	117
9/23	Station Unit No. 9	760 x 720 x 1120	117
10/23	Station Unit No. 10	760 x 720 x 1120	117
11/23	Station Unit No. 11	760 x 720 x 1120	117
12/23	Station Unit No. 12	760 x 720 x 1120	117
13/23	Main Control unit	1000 x 680 x 1040	64
14/23	Volume control unit	1000 x 680 x 1040	45
15/23	Corner unit	1000 x 680 x 1040	44
16/23	Corner unit	1000 x 680 x 1040	44
17/23	Speaker/bill vali unit (D)	940 x 720 x 1135	170
18/23	Speaker/bill vali unit (D)	940 x 720 x 1135	170
19/23	AT box	970 x 390 x 630	58
20/23	Projector main cabinet	1610 x 800 x 1990	225
21/23	Projector top cabinet	1700 x 850 x 430	50
22/23	Accessories	670 x 530 x 330	22
23/23	Track unit	1850 x 3650 x 1280	790

2.2 Preparation

Prepare the following before installing this machine.

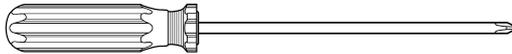
Procedure

1. Check the accessories in Package No. 22/23. (The packing list can be found in the package.) If any of these items is damaged or missing, immediately contact to Sigma Inc. or your nearest distributor for replacements.
2. There must be 3 or more service personnel.
3. The following tools are necessary

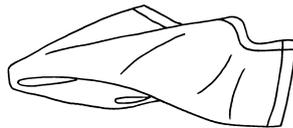
Ratchet box wrench or spanner for M6 (11mm)



Phillips screwdriver (#1, #2)



Waste



Wrenches attached

NOTE

Please prepare other tools if necessary.

3. HOW TO INSTALL

Install this machine in the following procedure.

3.1 Connecting Main Control Unit to Track Unit Unit (Main Control Unit in Package No. 13/23, Track Unit in Package No. 23/23)

Connect the main control unit to the track unit in the following procedure.

NOTE

The necessary parts are in Package No. 22/23.

3.1.1 When installing signal tower (Standard type)

Procedure

1. Attach the **CS dummy lamp (EX)** and the CS top cabinet cover to the main control unit. Refer to Fig. 1 and Fig. 2.
2. Insert the signal tower into the signal tower pipe. Refer to Fig. 2.
3. Insert the above assembly into the hole of the CS dummy lamp (EX), and tighten the bolts. Refer to Fig. 2.
4. Connect the connector B. Refer to Fig. 2.
5. Temporarily fix the CS corner mount bracket (main bracket) on the specified corner of the track unit frame. Refer to Fig. 3 and Fig. 4.

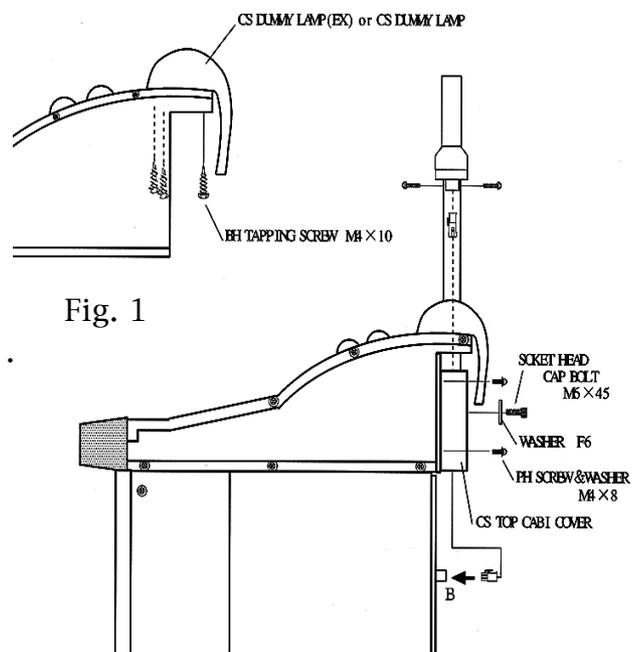


Fig. 1

Fig. 2

NOTE

This bracket will be securely fixed lastly.

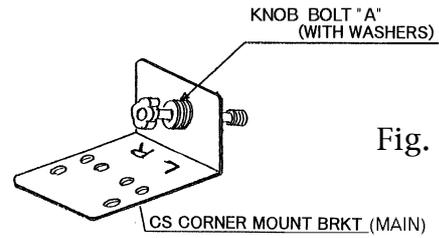


Fig. 3

6. Aligning the main control unit to the R-indicated holes of the main bracket, connect the main control unit to the track unit and tighten the knob bolt A.
Refer to Fig. 3 and Fig. 5.

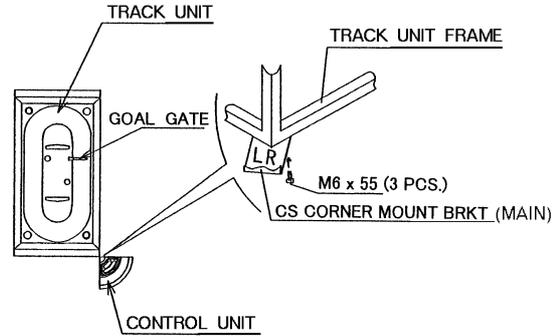


Fig. 4

7. Connect the connectors from the track unit to the main control unit.
Refer to Fig. 5.

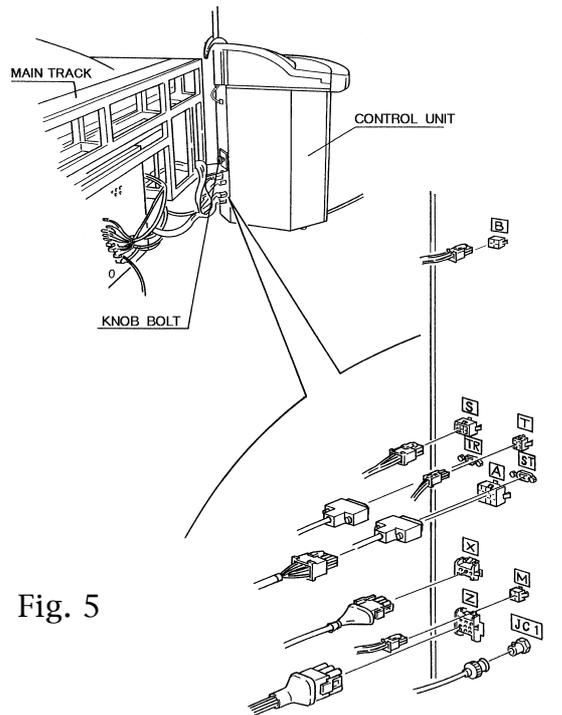


Fig. 5

3.1.2 When not installing signal tower (Optional type)

Procedure

1. Attach the **CS dummy lamp** and the CS top cabinet cover to the main control unit. Refer to Fig. 1 and Fig. 2.
2. Follow the above steps from No. 5.

3.2 Connecting Power Cable to Main Control Unit



WARNING !

Risk of Electric shock

Before connecting the power cable to the main control unit, be sure to turn OFF the breaker of the facility.

Connect the power cable to the control unit in the following procedure.

Procedure

1. Open the front door of the main control unit by using the key F8503.
2. Remove the breaker base cover.
3. Pass the power cable through the right hole on the bottom of the cabinet.
Refer to Fig. 6.
4. Connect the cable to the terminal block as indicated in Fig. 6.

NOTE

Fig. 6 is for single-phase two-wire system. In case of single-phase three-wire system, remove the secondary jumper plate from the terminal block.

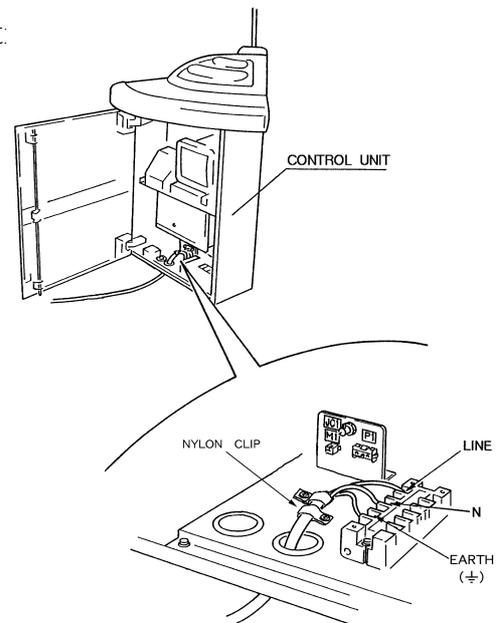


Fig. 6

5. Secure the cable by using the nylon clip.
6. Turn ON the breaker of the facility to check that the specified voltage can be detected on the terminal block.
7. Turn OFF the breaker of the facility to return the breaker base cover.
8. Close the front door and turn ON the breaker of the facility.

3.3 Removing Packing Materials from Track Unit

Remove the packing materials from the track unit in the following procedure.

Procedure

1. Turn ON the power breaker of the track unit at the lower right position in the main control unit.

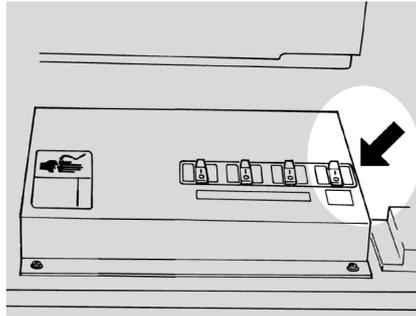


Fig. 7

2. Elevate the dome by using the specified switches in the main control unit.

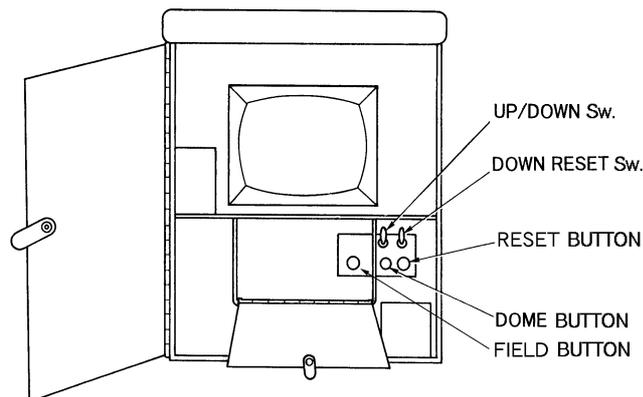


Fig. 8

- (1) Press the UP/DOWN toggle switch to UP.
- (2) Press the RESET and DOME buttons at the same time.
- (3) As soon as the dome begins to ascend, release the RESET button.
- (4) Keep down the DOME button until the dome reaches the upper limit.

NOTE

To resume the aborted ascending, press down the DOME button again.

3. Turn OFF the power of the track unit.

4. While paying attention so that the goal post and other plastic parts are not damaged, remove the packing materials. Refer to Fig. 9.

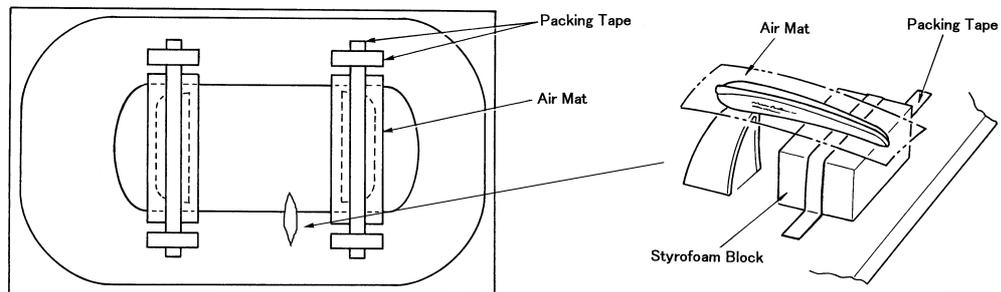


Fig. 9

5. Turn ON the power of the track unit again.
6. Open the PCB box cover by using the key B2300 to make the FIELD button visible.
7. Elevate the field as below.
 - (1) Press the UP/DOWN toggle switch to UP.
 - (2) Press the RESET and FIELD buttons at the same time.
 - (3) As soon as the field begins to ascend, release the RESET button.
 - (4) Keep down the FIELD button until the field reaches the upper limit.

NOTE

To resume the aborted ascending, press down the FIELD button again.

8. Turn OFF the power of the track unit.
9. While paying attention so that any part is not damaged, remove the packing material. Refer to Fig. 10
10. Check that the carriers are gearing with their corresponding rails.

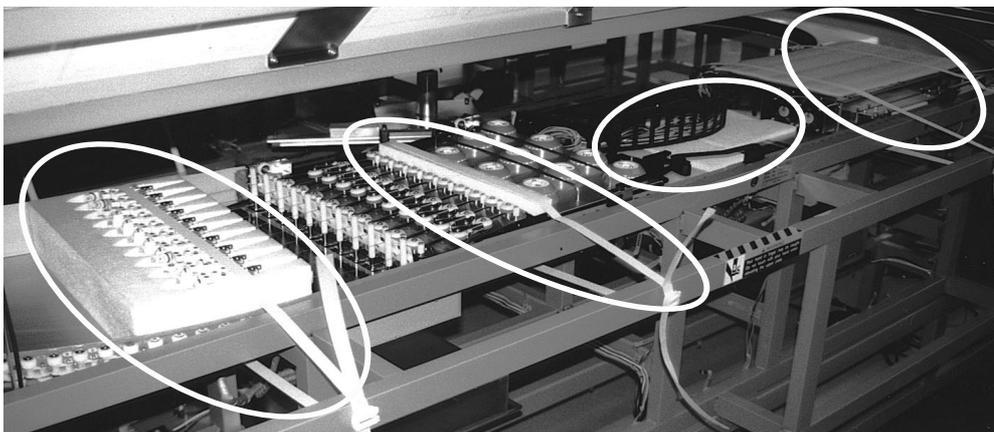


Fig. 10

- Carefully wind every loose wire until the END LIMIT switch turns ON. Refer to Fig. 11.

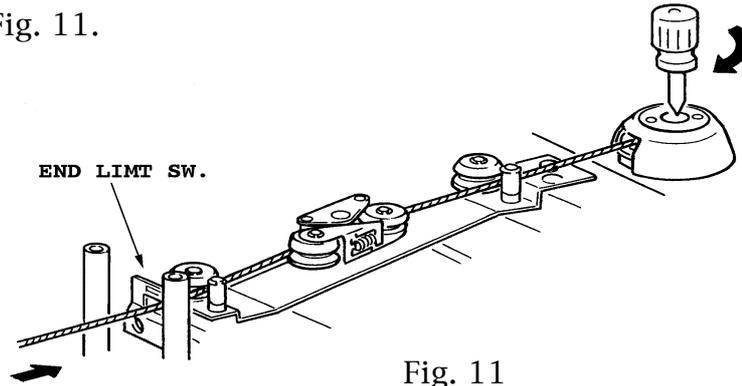


Fig. 11

- Remove the packing material from the main PCB box of the track unit. Refer to Fig. 12 and Fig. 13.

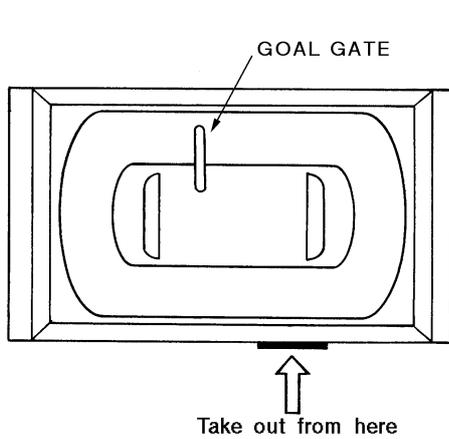


Fig. 12

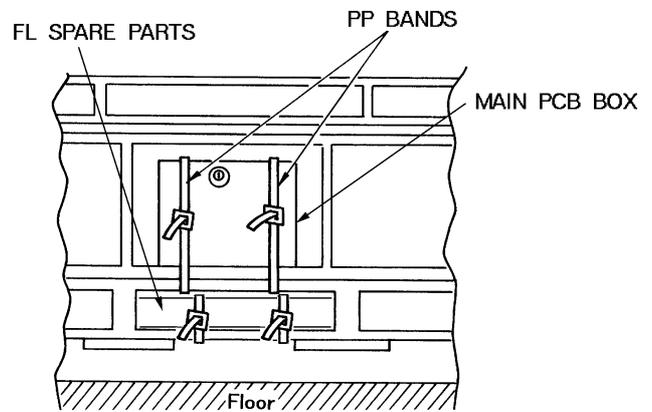


Fig. 13

- Take out the box from under the main PCB box. Refer to Fig. 13.

NOTE

*This box contains spare fluorescent lamps.
Please keep it in trust.*

- Check that there is no foreign object or tool left on the track field.
- Turn ON the power of the track unit.

16. Lower the field as below.



CHECK !

Remember the undercarrier positions because the horse assemblies are set next.

- (1) Press the UP/DOWN toggle switch to DOWN.
- (2) Press the RESET and FIELD buttons at the same time.
- (3) As soon as the field begins to descend, release the RESET button.
- (4) Keep down the FIELD button until the field reaches the lower limit.

NOTE

To resume the aborted descending, press down the FIELD button again.

3.4 Setting Horse Assemblies (Package No. 22/23)

Set the horse assemblies in their numerical order in the following procedure.

Procedure

1. Clean the track field.
2. Securely fit each horse assembly on the magnet of its corresponding undercarrier.

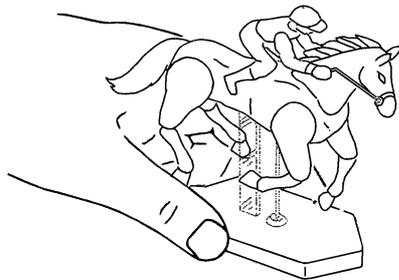


Fig. 15

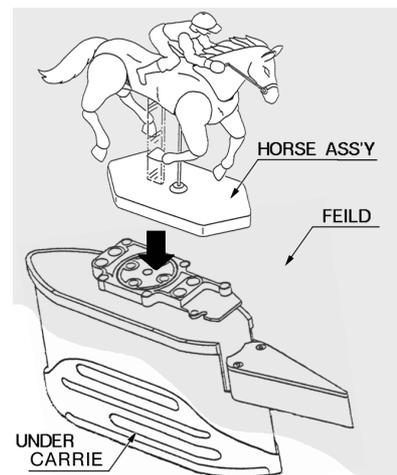


Fig. 16



CAUTION !

The horse assemblies are fragile. Hold the base as depicted above, and handle it carefully.

The horse assemblies must be set securely. Failure to do so results in Fall Racer error.

3. Lower the dome as below.

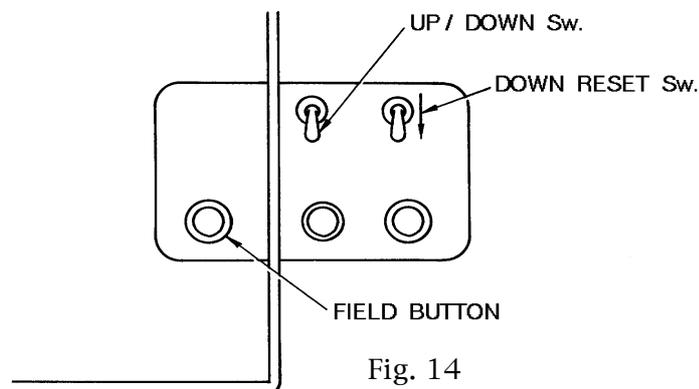


Fig. 14

- (1) Press the UP/DOWN toggle switch to DOWN.
- (2) Press the DOME RESET and DOME buttons at the same time.
- (3) As soon as the dome begins to descend, release the DOME RESET button.
- (4) Keep down the DOME button until the dome reaches the lower limit.

NOTE

To resume the aborted descending, press down the DOME button again.

4. Turn OFF the power.

3.5 Placing Track Unit

Place the track unit and fix it by setting the adjusters.

3.6 Connecting AT Box

(AT Box in Package No. 19/23, and AT Computer in Package No. 22/23)

Connect the AT box in the following procedure.

Procedure

1. Place the AT box on the left side of the main control unit.
2. Open the door of the AT box by using the key F8503.
3. Place the AT computer beside the AT box.
4. Connect the connectors from the AT box to the AT computer. Refer to Fig.17.
5. Place the AT computer in the AT box to screw it. Refer to Fig. 18.
6. Close the door of the AT box.

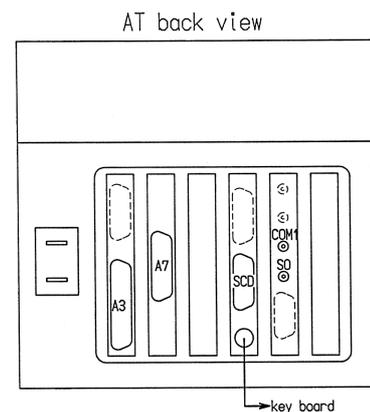


Fig. 17

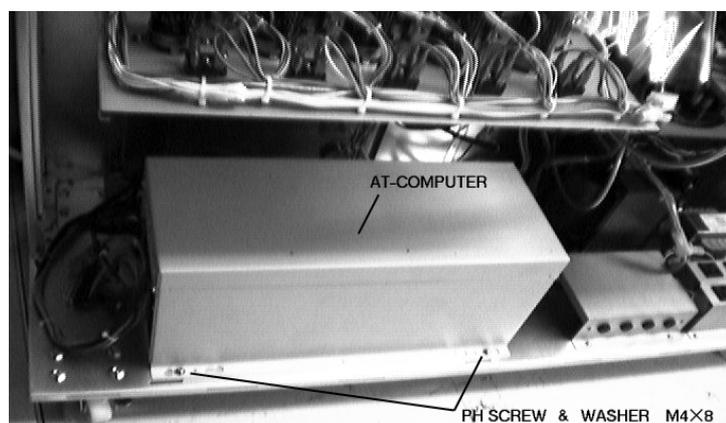


Fig. 18

7. Connect the connectors from the track unit to the AT box.
Refer to Fig. 19.

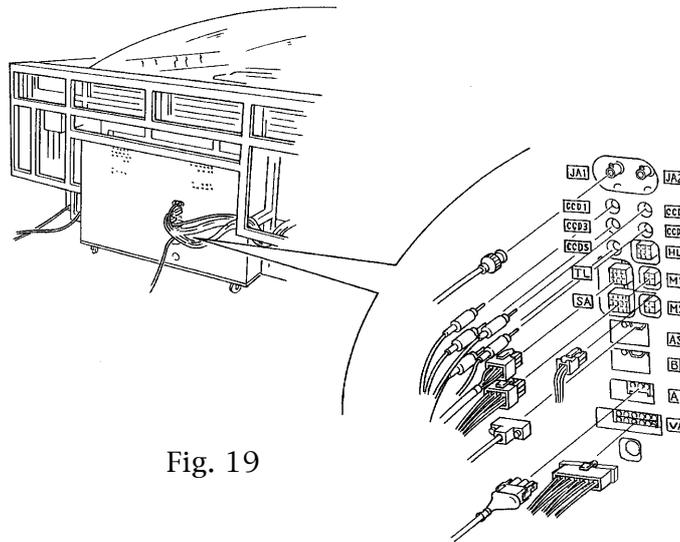


Fig. 19

8. Place the AT box under the track unit.

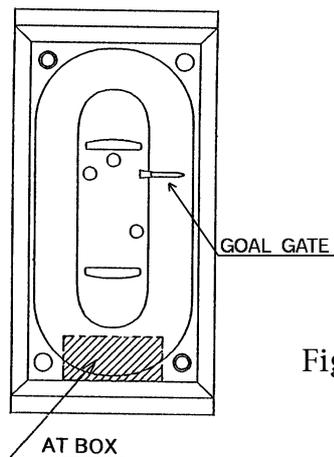


Fig. 20

3.7 Assembling Projector Cabinet

Assemble the projector cabinet in the following procedures.

Procedure

1. Remove the back door (B) from the projector top cabinet (Package No. 21/23). Refer to Fig. 21.
2. Remove the back door (A) from the projector main cabinet (Package No. 20/23) by loosening the screws A. Refer to Fig. 22.
3. Mount the top cabinet on the main cabinet, and fix them by using the knobbolts (8pcs) (Package No. 22/23). Refer to Fig. 23
4. Replace the back door (B).
5. Connect the connector P. Refer to Fig. 23.
6. Replace the back door (A).
7. Remove the back door (C) as indicated in Fig. 24.

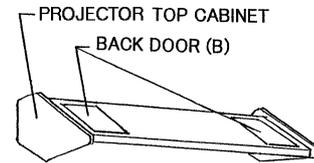


Fig. 21

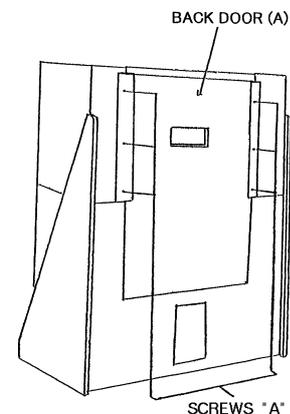


Fig. 22

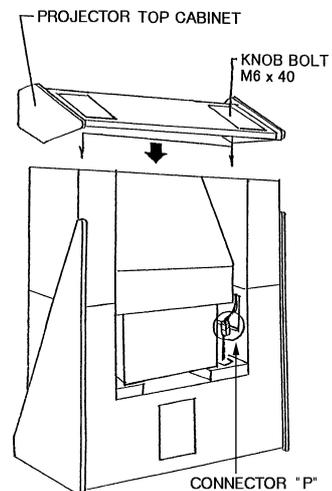


Fig. 23

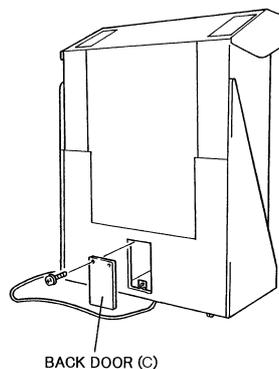


Fig. 24

8. Take out the cable from the main cabinet by passing it through the bottom hole.
9. Connect the above cable to the main control unit through the left hole on the bottom of the main control unit. Refer to Fig.25.

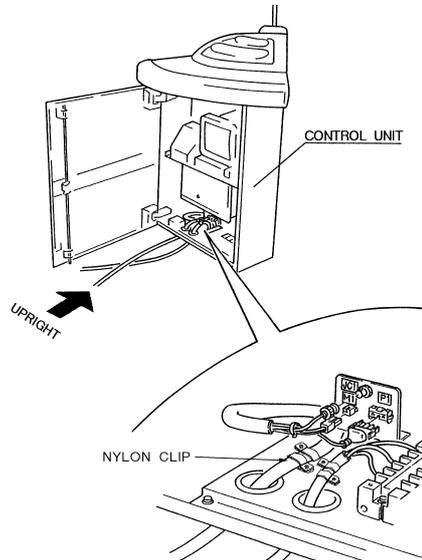


Fig. 25

10. Secure the cable by a nylon clip. Refer to Fig. 25.
11. Replace the back door (C).
12. Place the projector cabinet.
13. Bolt the anchor bracket (Package No. 22/23) on the projector cabinet. Refer to Fig. 26.

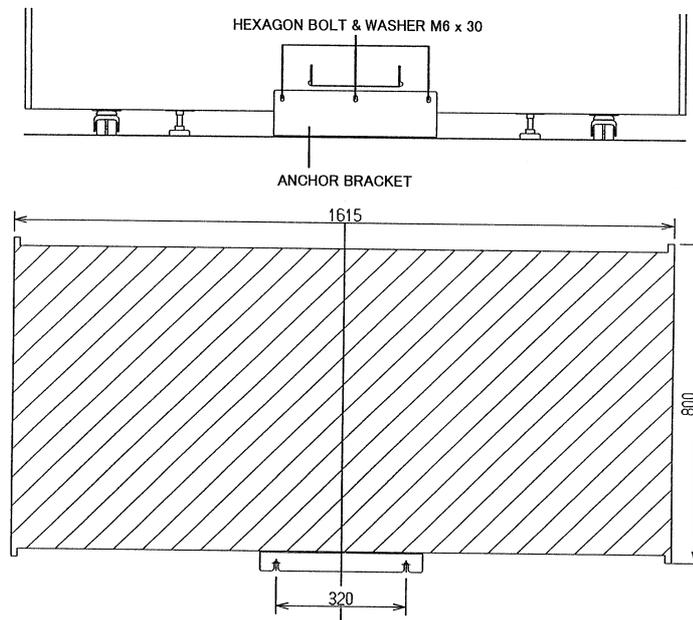


Fig. 26

14. Connect the anchor bracket to the floor anchor to secure the projector cabinet.

NOTE

The floor anchor must have been installed beforehand.

Use bolts less than M10.



WARNING !

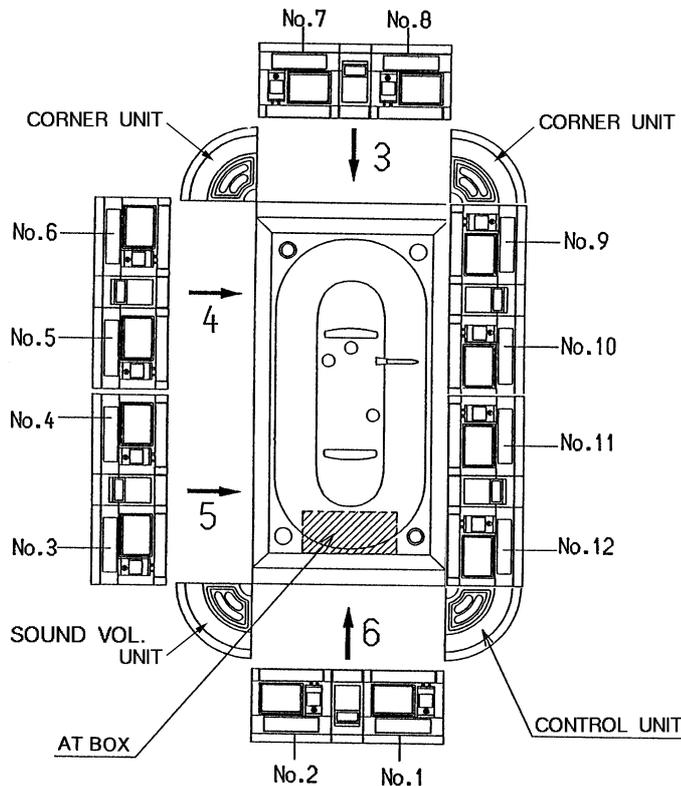
To prevent a fall, be sure to anchor the projector cabinet to the floor.
The cables must be laid under the floor or covered by protectors to prevent an accident.

3.8 Checking Operations of Track and Projector Units

Turn ON the power breakers of the track and projector units (at the lower right position in the control unit) to check the track and projector units work well.

3.9 Connecting All Units

Connect all the units in the following procedure.



Procedure

1. Place a speaker/bill validator unit (Package 17/23 through Package 18/23) in between two consecutive-numbered station units. Refer to Fig. 27.

NOTE

It must be placed with its left side on the cabinet support of the even-numbered station unit and its right side on that of the odd-numbered station unit.

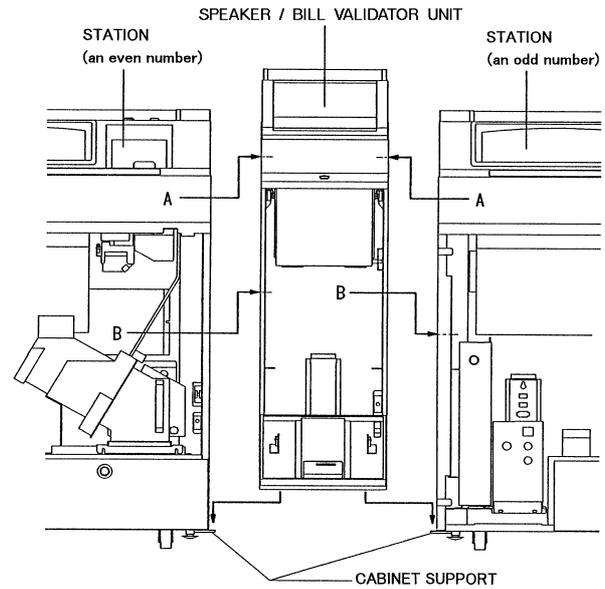


Fig. 27

2. Open the front doors of the even-numbered station unit and speaker/bill validator unit to tighten the knobbolts B .
3. Open the upper doors of the station units to tighten the bolts A (M6 x 15 with F6 washer) (Package No. 22/23) near the armrests. Refer to Fig. 27.
4. Connect the communication harnesses from each station unit to the adjacent speaker/bill validator unit through the hole beside the knobbolt B.
5. Make another 5 sets of the same assemblies (6 sets in total).

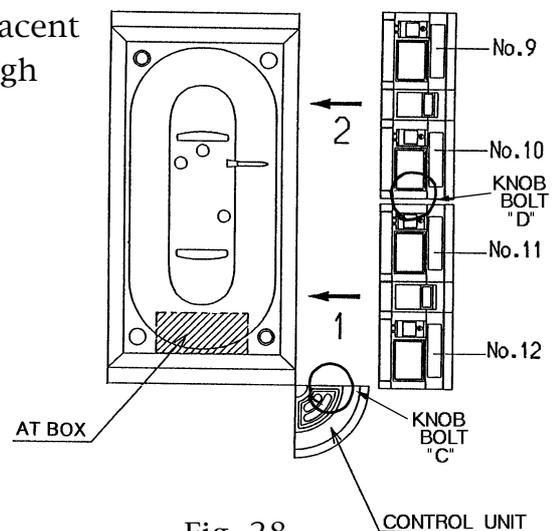


Fig. 28

6. Place the assemblies beside the track unit.
Refer to Fig. 28.
7. Connect the speaker harness and the track unit harness to each station unit. Refer to Fig. 29.
8. Connect the two station units of each assembly using the ST-ST harnesses (Package No. 22/23).
9. Same as in Step 8, connect the assemblies using the ST-ST harnesses. Refer to Fig. 29.

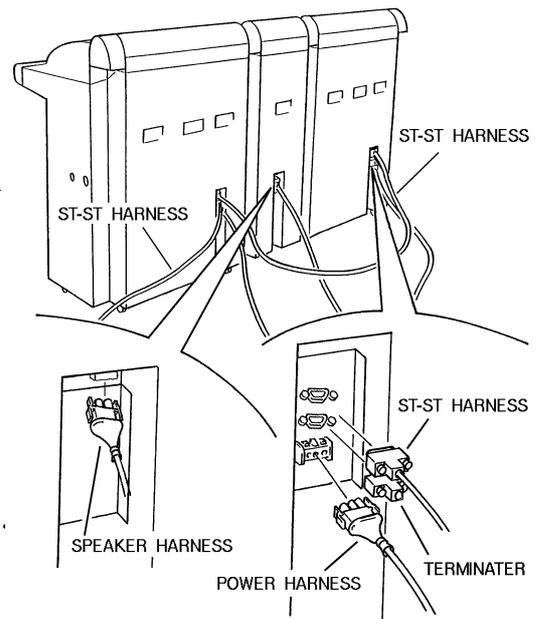


Fig. 29

NOTE

Attach the terminator to the last connector of the station unit No. 12 (Package No. 22/23).

10. Push the assemblies from the station unit No. 9 through No. 10 and from No. 11 through No. 12 to the track unit while paying attention so that the track unit will correctly meet the above assemblies. Refer to Fig. 28.

NOTE

Care must be paid not to nip the cables.

11. Tighten the knobolt C at the right side in the main control unit to secure the station unit No. 12 to the main control unit. Refer to Fig. 30.

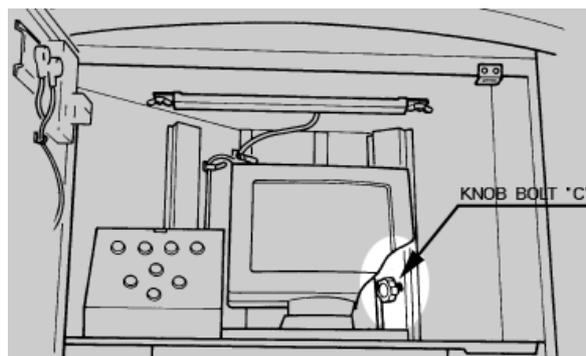
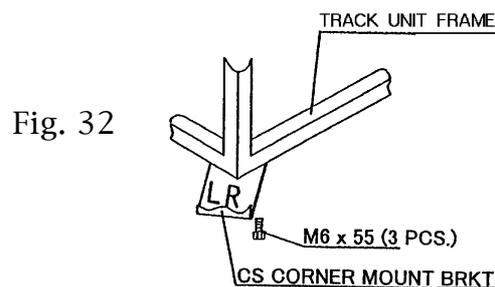
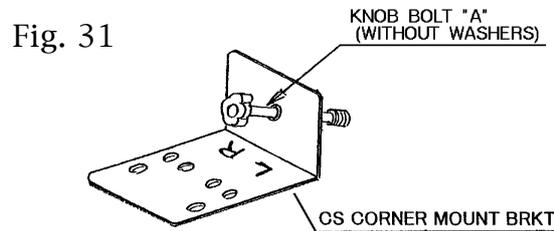


Fig. 30

12. Secure the CS corner mount bracket that has been temporarily fixed in Paragraph 3.1.1, Step 5.
13. Open the front door of the station unit No.11, and tighten the knobolt B to connect the station unit Nos. 11 and 10.
14. Same as in Paragraph 3.1.1, Step 1, attach the CS dummy lamps and the CS top cabinet covers to the volume control unit (Package No. 14/23) and the main corner units (Package Nos. 15/23 to 16/23).
15. Temporarily fix the CS corner mount bracket (sub bracket) on the specified corner of the track unit frame. Refer to Fig. 31 and Fig. 32.



16. Place a corner unit beside the station unit No. 9.
17. Secure the corner unit to the track unit by tightening the knobolt A in the following manner.
 - (1) When installing the corner unit on the right side, align the corner unit to the R-indicated holes of the bracket.
 - (2) When installing the corner on the left side, align the corner unit to the L-indicated holes of the bracket.
18. Open the front door of the station unit No. 9, and tighten the knobolt to connect the station unit No. 9 to the corner unit.
19. Secure the CS corner mount bracket (sub bracket) that has been temporarily fixed in Step 12.

20. Connect the harness from the track unit to the corner unit. Refer to Fig. 33.

21. Unscrew the front door of the corner unit.

22. Repeat the above steps to install the station units No. 8 through No. 3.

23. Install the volume control unit beside the station unit No. 3 same as the corner units.

24. Connect the power harness and volume harness (VB) from the track unit to the volume control unit. Refer to Fig. 33.

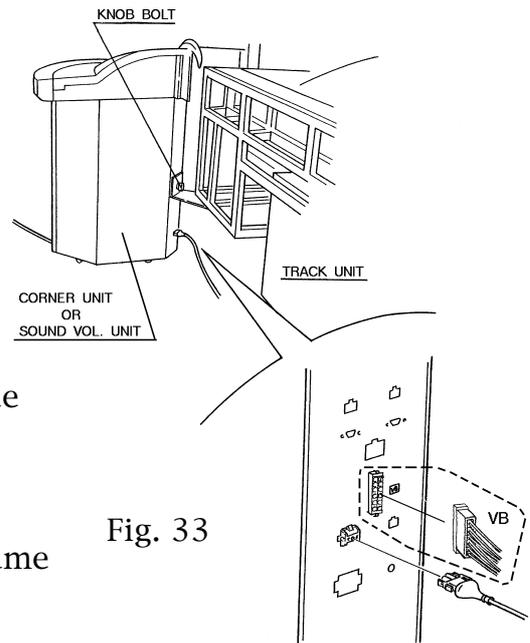


Fig. 33

25. Place the assembly from the station units No. 1 through No. 2 in between the volume control unit and the control unit.

26. Connect the station unit No. 1 to the AT box using the ST-ST harness.

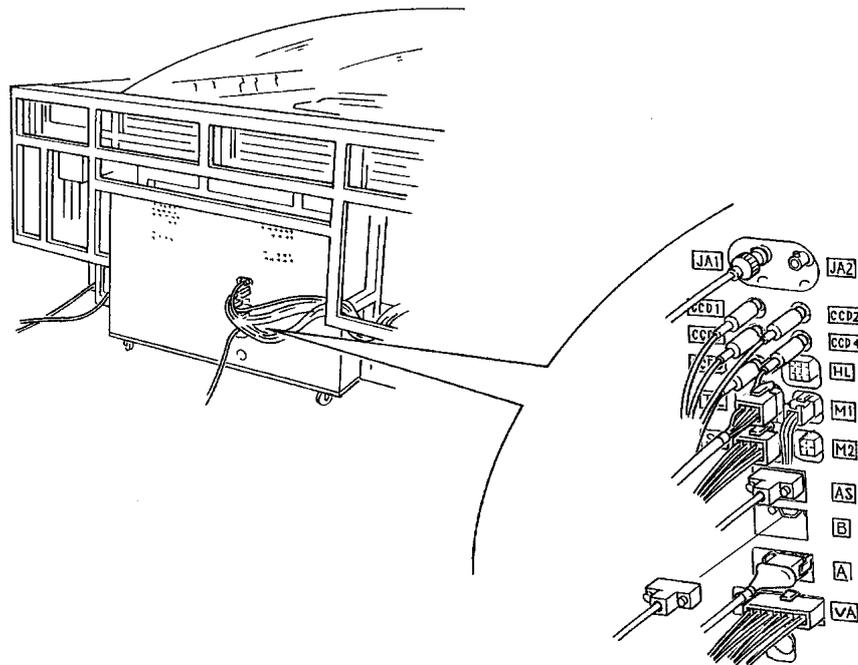


Fig. 34

27. Connect the station unit Nos. 2 and 1 by tightening the knobolt.
28. Push the assembly from the station unit No.2 through No.1 to the track unit.
29. Secure the station unit Nos. 2 and 1 to the volume control unit and the main control unit respectively by tightening the knobolts.
30. Turn ON every power to check the operation.
31. The installation is now completed.

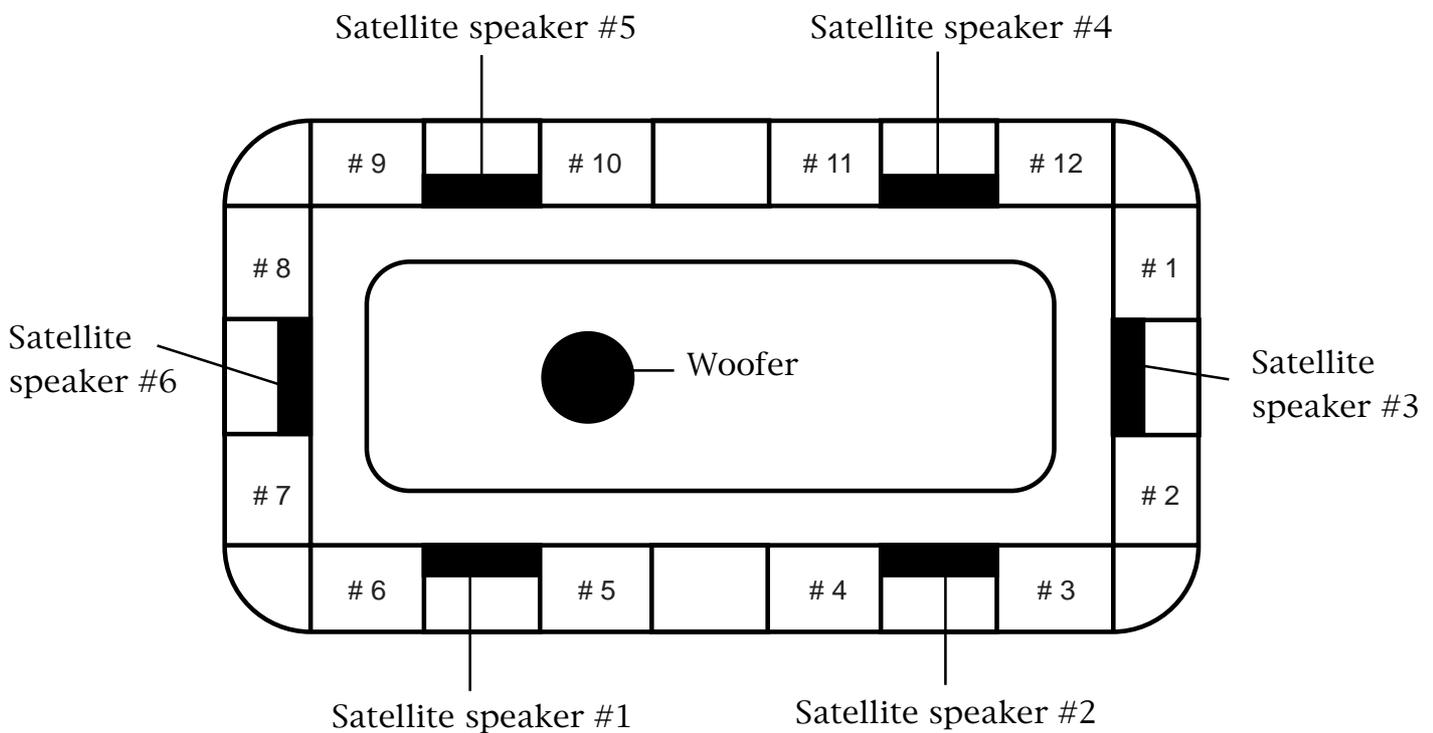
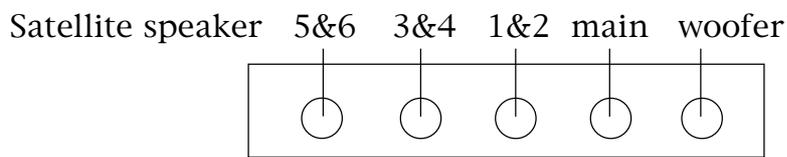
4. SETTING

4.1 Adjusting Sound Volume of Satellite Speakers

Adjust the sound volume of the satellite speakers in the following procedure.

Procedure

1. Open the small door of the volume control unit.
2. Adjust the sound volume by turning the controls depicted below.



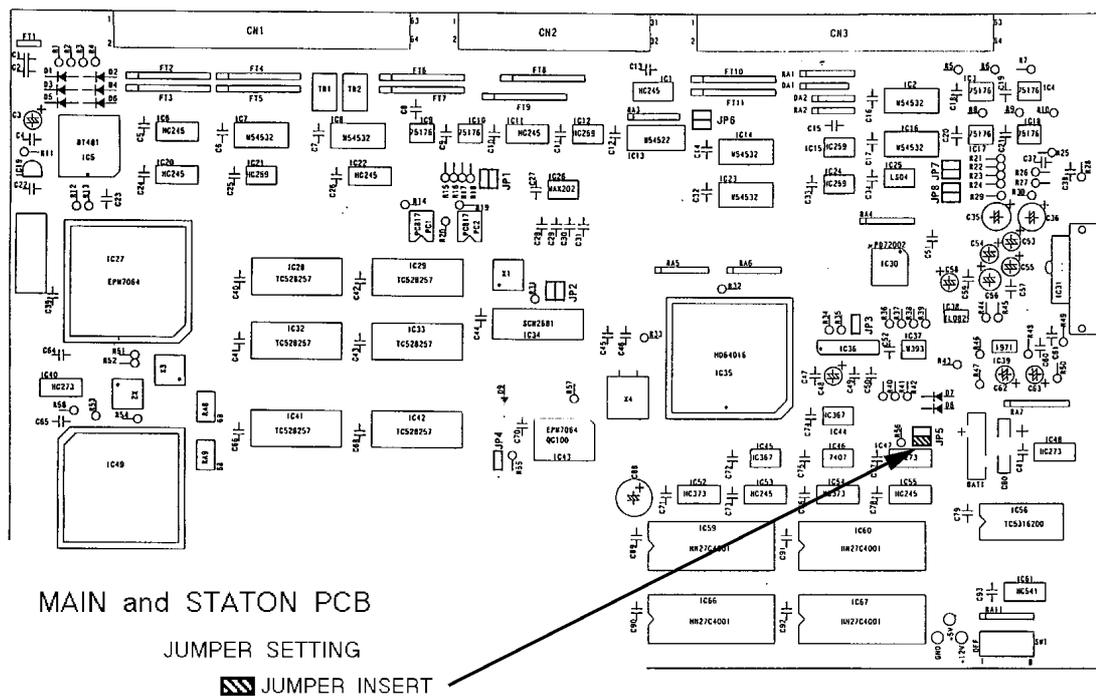
4.2 Setting Jumper Switches

The back-up batteries are mounted on the main PCB, the station PCB, and the logic seal PCB to retain the various data for long period.

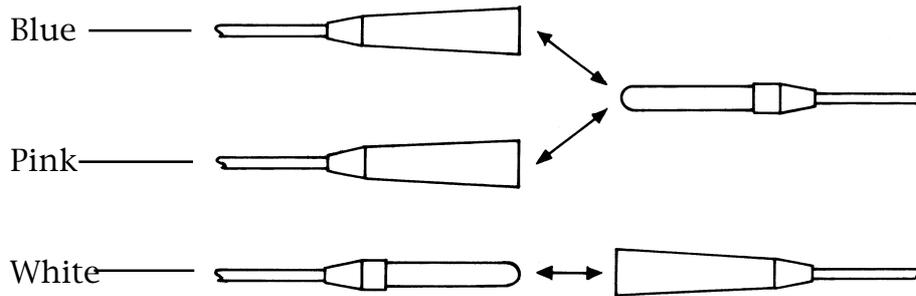
Because these batteries have been set to “Not Used” at the shipment, be sure to set the jumper switches.

4.2.1 Setting the jumper switches of the main and station PCBs

Insert the jumper JP5 into the lower position as shown below.



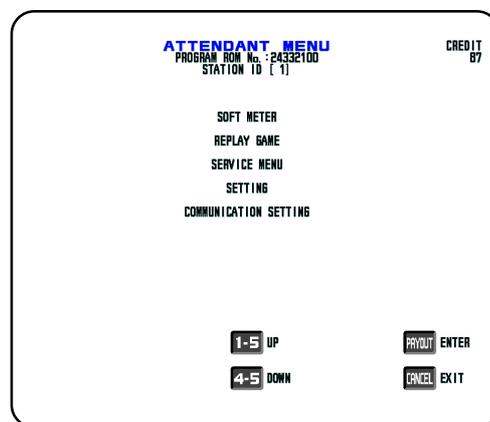
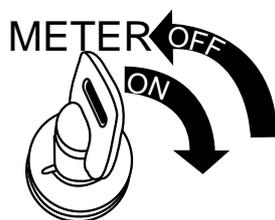
6. After setting, screw the cover on the hopper motor.
7. Return the hopper to the machine
8. Check the hopper is securely connected to the connector inside.
9. Close the doors.



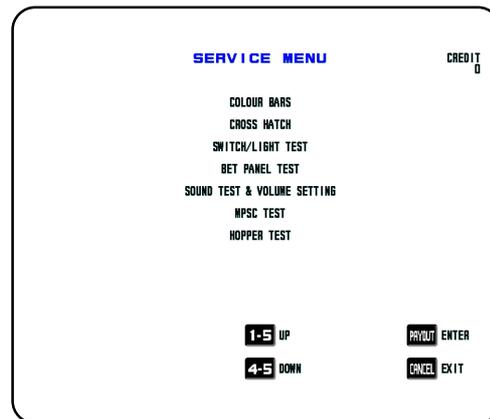
4.4 Setting Sound Volume on Station Units

Procedure

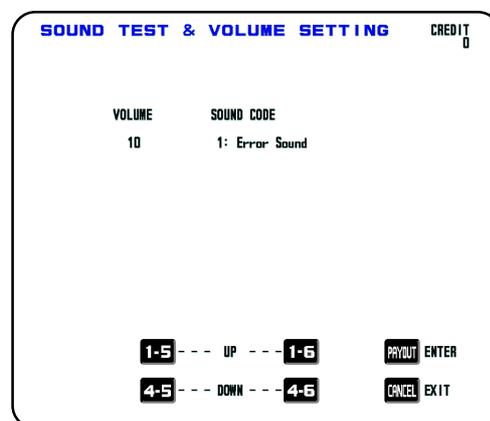
1. Call the ATTENDANT MENU by turning the METER keyswitch on the station unit.



2. Open the SERVICE MENU from the ATTENDANT MENU by using the bet buttons indicated on the screen.



3. Select the SOUND TEST & VOLUME SETTING to display the following setting screen.



4. Select the sound code by using the betting buttons of 1-5 and 4-5.
5. Press the PAYOUT button to hear the sound.
6. Adjust the volume by pressing the betting buttons of 1-6 and 4-6.
7. To exit this mode, press the CANCEL button.

INSTALL CHECK LIST

1. Review the environmental and power requirement
2. Unpack and inspect the shipping packages
3. Connect the main control unit to the track unit.
4. Connect the power cable to the main control unit.
5. Remove the packing material from the track unit.
6. Set the horse assemblies.
7. Place the track unit.
8. Connect the AT box.
9. Assemble the projector cabinet.
10. Check the operation of the track and projector units.
11. Connect all the units.
12. Adjust the sound volume.
13. Set the jumper switches.
14. Set the hopper frequency.

THE DERBY MARK-VI V8 INSTALLATION MANUAL

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