SEGA

DERBY OWNERS CLUB
WORLD EDITION

Satellite Installation Manual

SEGA AMUSEMENTS USA INC.
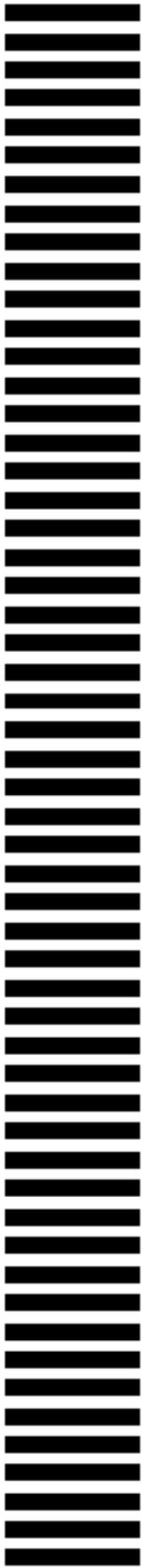
SECURING THE SATELLITE PLACEMENT POSITIONS

WARNING!

Be sure that all adjusters are placed against the floor. Failure to place the adjusters against the floor could lead to accidents caused by cabinet movement.

Each satellite is equipped with 4 adjusters and 4 casters. When the placement position has been determined, place the adjusters directly against the floor and perform adjustments to make the satellite horizontally level.

1 Move the satellite to the placement position.

2 Remove the 2 screws at each corner to remove the lower covers.

LEG COVER FRONT

SCREW(2 each)
M4×12

ADJUSTERS

CASTERS
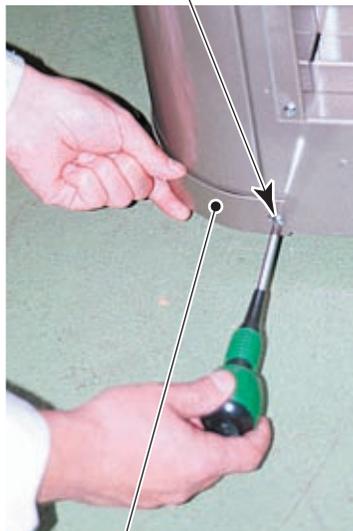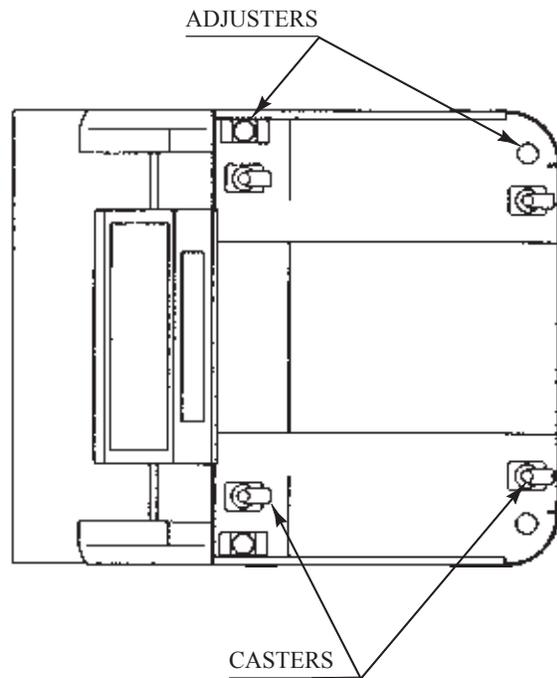
FIG. 6. 2 a BOTTOM VIEW OF THE SATELLITE

LEG COVER REAR

PHOTO 6. 2 a

③ Place all the adjusters against the floor. Use a wrench to adjust the height of the adjusters so that the satellite is horizontally level.

④ Following adjustment, tighten the nut on each adjuster to fix the height.

Fasten upward.
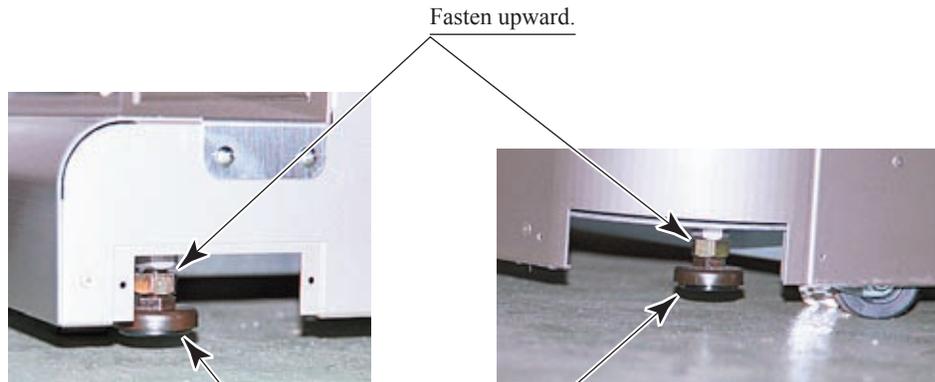
Be sure to make contact with the surface.

PHOTO 6. 2 b

⑤ Replace the 4 covers at the corners.

FIG 6. 2 b
Refer to this figure (scale: 1/100) for the layout of the place of installation.

⑥ Follow the procedure below to attach the instruction plate and the instruction holder to the service door.
Exercise caution, as the service door closes by its own weight, and can injure hands or fingers.
Do not over-tighten the flange nuts, as this could damage the instruction plate.

⑦ Release and open the service door.

⑧ Secure the instruction plate to the service door using 6 carriage bolts and flange/cap nuts. Push the carriage bolts all the way through the holes, and tighten the 4 flange nuts from the inner side of the service door and the 2 cap nuts in the upside.

CARRIAGE BOLT (6)
M4×10, chrome plated

INSTRUCTION PLATE

INSTRUCTION HOLDER

CAP NUT (2)
M4, flat washer used

SERVICE DOOR

FLANGE NUT (4)
M4

Release

FIG. 6. 2 c

WARNING!
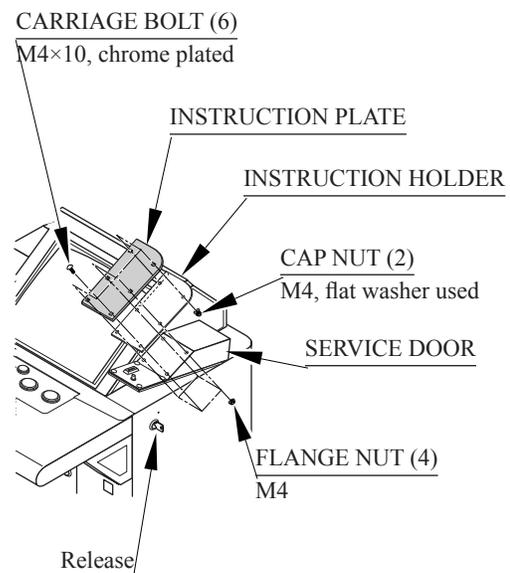
- Be sure to independently use the power supply socket outlet equipped with an Earth Leakage Breaker. Using a power supply without an Earth Leakage Breaker can cause a fire when electric leakage occurs.
- This product is designed for an electrical outlet with an earth element. The power cord incorporates an earth wire. Improper grounding could result in electrical shock to customers, damage to components, and/or malfunctioning.
- If an electrical outlet with an earth element is not available and a commercially distributed conversion adapter is used, make sure that the product's earth terminal is connected to a grounded terminal using an earth wire. Improper grounding could result in electrical shock to customers, damage to components, and/or malfunctioning.
- In order to ground securely, do not use the service outlet to supply the power of the other satellites. Improper grounding could result in electrical shock to customers, damage to components, and/or malfunctioning. (For TAIWAN)
- The electric current capacity of the service outlet for the satellites is 10A max. Never use the service outlet for the machinery exceeding 10A. Using the machinery exceeding 10A can cause generation of heat and fire hazard. (For TAIWAN)
- Ensure that the power cord and earth wire are not exposed on the surface (passage, etc.). If exposed, they can be caught and are susceptible to damage. If damaged, the cord and wire can cause electric shock and short circuit accidents. Ensure that the wiring position is not in the customer's passage way or the wiring has protective covering.

The AC unit for the main projection unit is located at the back of the cabinet. The AC unit features a main switch, a circuit protector, an earth terminal, and an inlet for connecting the power cord.

The AC unit for each satellite is also located at the back. These AC units feature a power switch, a circuit protector, an earth terminal, an inlet for connecting the power cord, and a service outlet.

When connecting the satellite power source and earth, place the latch located at the end of the chain extending from the AC cover onto the hook located on the back of the satellite. This will secure the AC cover in the open position. When the work is finished, replace the latch onto the hook located on the back of the AC cover and close the cover.

HOOK

LATCH

AC COVER
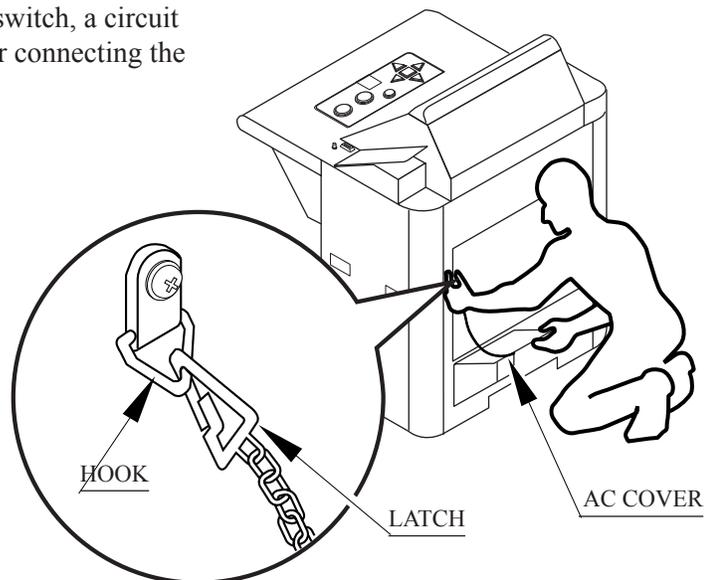
FIG. 6. 3 a

⑨ Ensure that the main switch is OFF.

Main SW off

CIRCUIT PROTECTOR

MAIN SW

AC Cable (Power Cord)

INLET

EARTH TERMINAL (for TAIWAN)
Connect with the
indoor earth terminal.
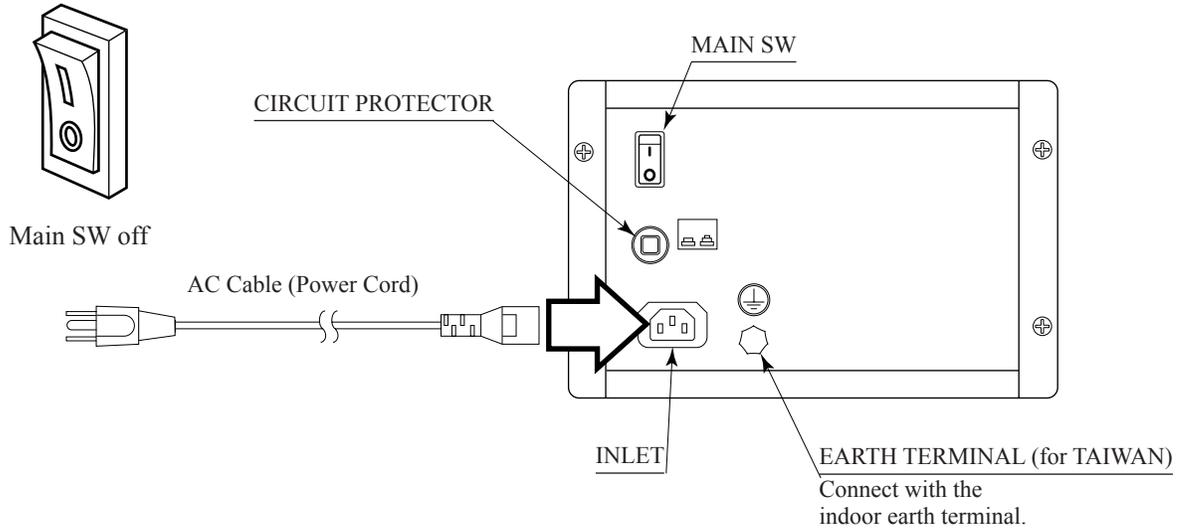
FIG. 6. 3 b AC UNIT OF THE MAIN PROJECTION UNIT

CIRCUIT PROTECTOR(10A)(For TAIWAN)
(For Service outlet)

SERVICE OUTLET (For TAIWAN)

EARTH TERMINAL (For TAIWAN)
Connect to the
indoor earth terminal.

AC COVER

INLET

POWER SW OFF.

CIRCUIT PROTECTOR(5A)

POWER SWITCH
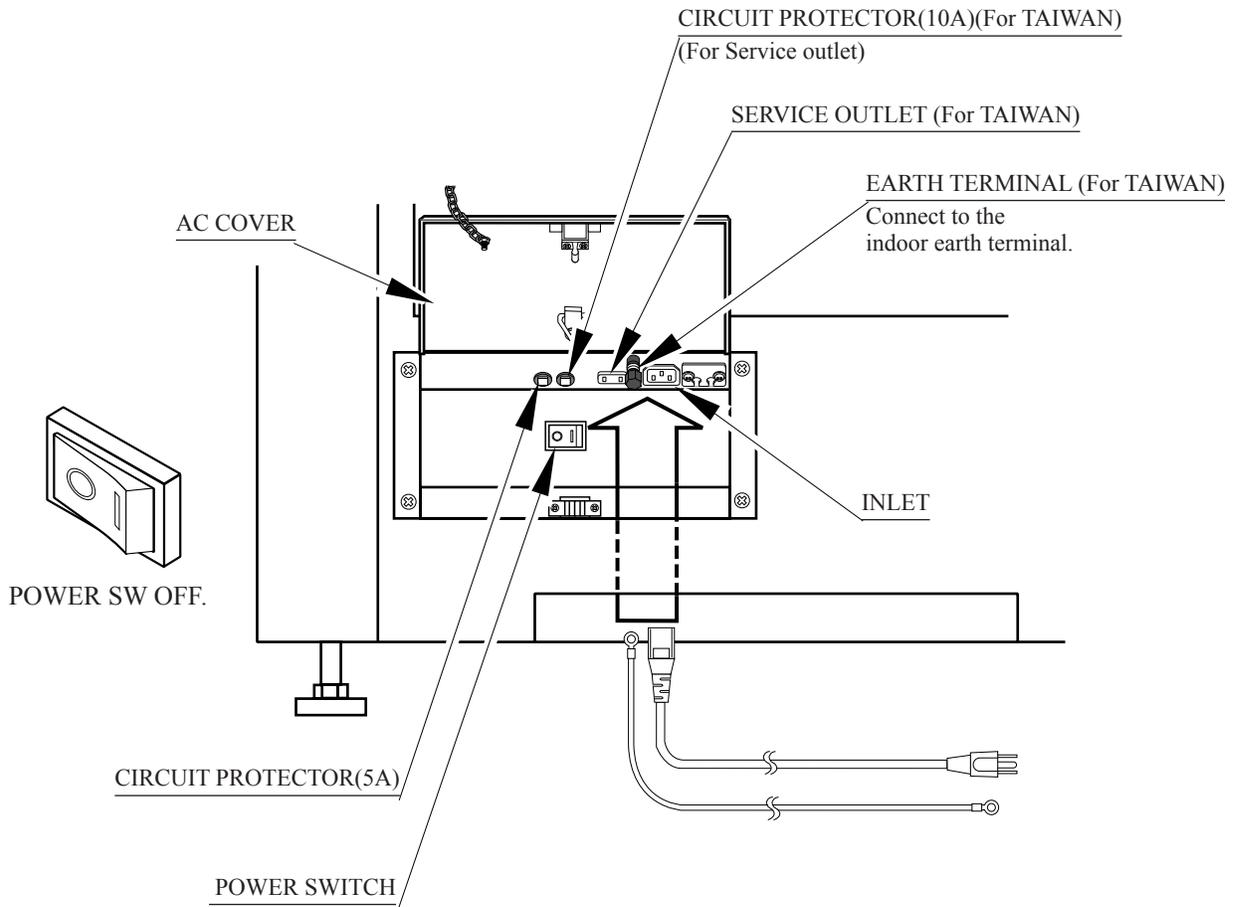
FIG. 6. 3 c AC UNIT OF THE SATELLITE

⑩ Firmly insert the power plug into the socket outlet. Insert the opposite side of the power cord
plug to the AC unit's connector (INLET).

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(11) One end of the earth wire should be connected to the product's earth terminal, and the other end to an indoor earth terminal. The earth terminal of the AC unit consists of a bolt and nut set. First remove the nut, then place the end of the earth wire so that the bolt passes through, and finally tighten the nut. (For TAIWAN)

*Note that the earth wire is incorporated in the power cord for the areas of AC 120V (USA) and AC 220V ~ 240V, and therefore, this procedure is not necessary.

(12) Arrange the power cord (and earth w Use a wiring cover to protect the po and earth wire.

Connect the earth wire to the earth terminal.
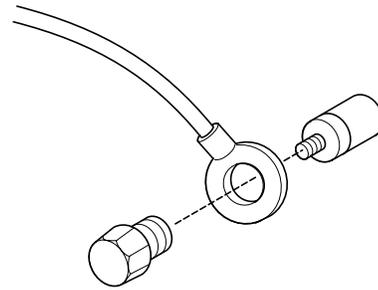
FIG. 6. 3 d *Earth Wire Connection

Wiring Cover
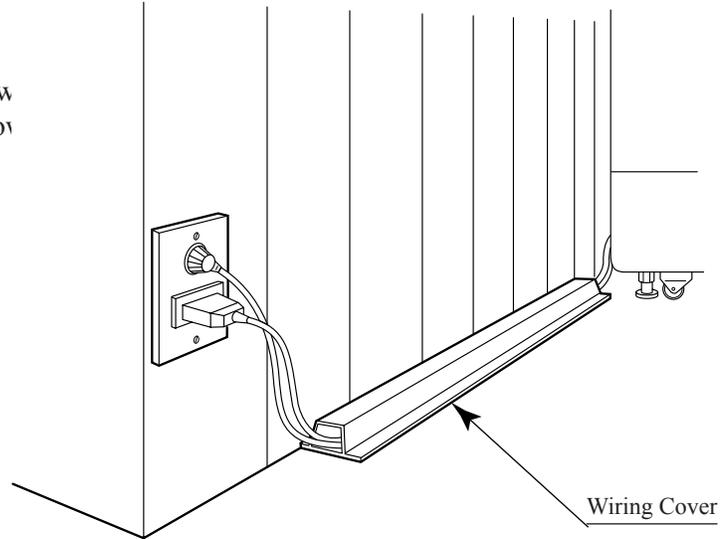
FIG. 6. 3 e\ Connecting Power Cord and Earth Wire
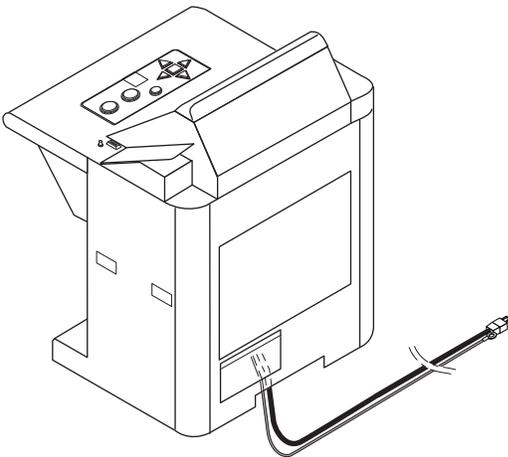
FIG. 6. 3 f

NOTE: Run the satellite power cable and earth wire past the depth-wise side of the sheet metal in front of the AC unit and connect them to the inlet and earth terminal.

HOW TO USE THE CORD CLAMP
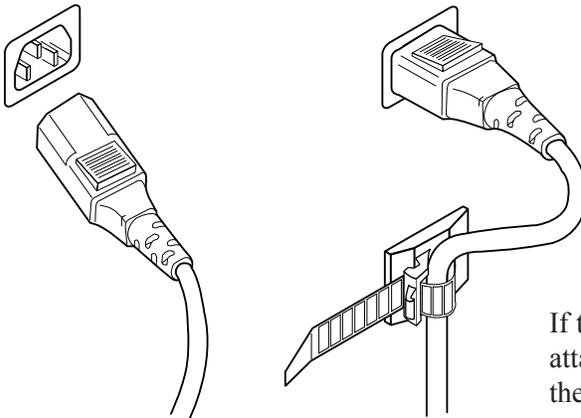
If the power cord is easily dislodged from the unit, attach the cord clamp (included with this product) near the AC unit, and secure the power cord.

4 COMMUNICATION CONNECTIONS

STOP

IMPORTANT!

> The communication cables are fiber optic type cables, and should be handled carefully. Improper handling may result in damage (such as from folding) that would render them unusable.
> - Do not place heavy objects on the cables or step on them.
> - When connecting or disconnecting the cables and connectors, always hold the connectors. Do not hold the cables.
> - Be careful not to allow the connection surfaces at the ends of the communication cables to become dirty.
> - Be careful not to bend the communication cables too much. The tightest permissible bend radius is 2.5 cm.
> - Always carefully confirm the direction when connecting the connectors.

The RX and TX connectors are used to connect the communication cables to the shield case in the main projection unit and the Naomi shield cases inside the satellites. All the shield cases must be linked, using fiber optic cable to connect the RX connector for the shield case in the main projection unit to the TX connector for each Naomi shield case in each satellite, and using other communication cables to connect the RX connector in each satellite with the TX connectors in the shield cases for each of the other satellites.

The connector at one end of each communication cable is red, and the connector at the other end is black. The connectors for the shield case communication cables are designated "RX" and "TX". Connect "RX" to the red connector and "TX" to the black connector.

The process for communication cable connections at the shield case in the main projection unit has been described previously, as well as that for routing the cables. (See ⬜1 Assembling and positioning the main projection unit)

① Release and open the front door of the satellite.

② Remove the back door of the satellite by removing the 4 screws.

FRONT DOOR

PHOTO 6. 4 a

BACK DOOR
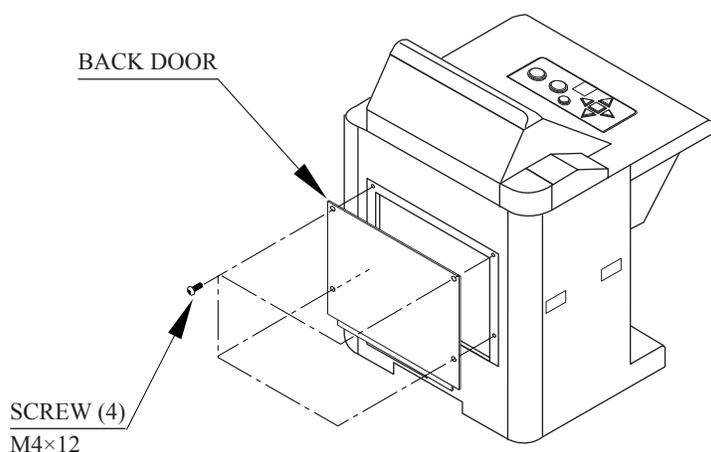
SCREW (4)
M4×12

FIG. 6. 4

③ Open the cover of the satellite AC unit.

④ Remove the fiber guide plate by removing the 2 screws.

AC UNIT COVER

FIBER GUIDE PLATE

PHOTO 6. 4 b

⑤ Run the 2 communication cables through the satellite. Run the cables from the bottom of the satellite, past the depth-wise side of the sheet metal in front of the AC unit, and pass them into the satellite through the square holes revealed by removing the fiber guide plate.
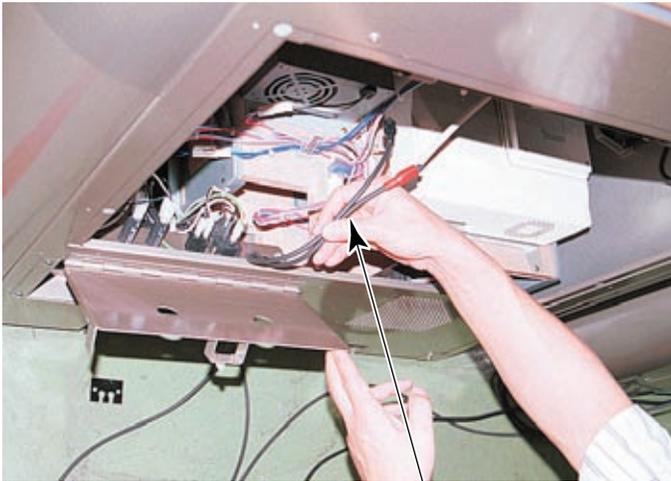
Run the two communication cables through the Satellite.

PHOTO 6. 4 c

⑥ Connect the communication cables to the RX and TX connectors at the Naomi shield case inside the satellite. Confirm the connector ends that are to be connected.

Connect the communication cables.
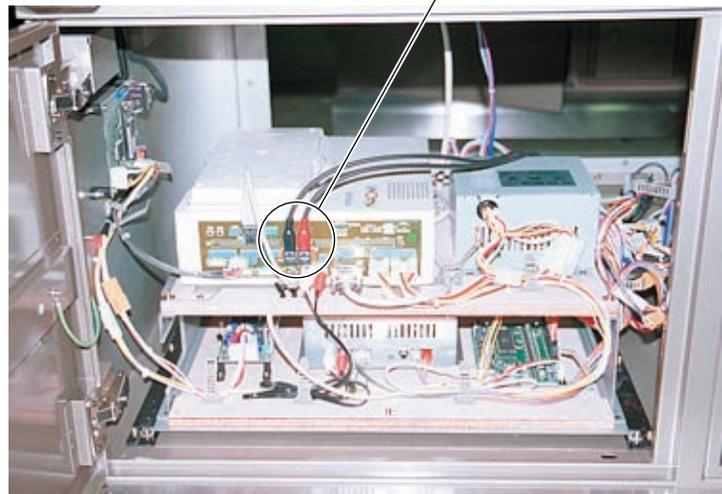
PHOTO 6. 4 d

⑦ Use the cord clamp inside the satellite to secure the communication cables (Photo 6. 4 e).

⑧ Near the cable exit, make loops in the communication cables with a diameter of at least 6 cm. Use the repeat tie belt to secure the looped communication cables (Figure 6. 1 l).

Secure the communication cable by using the cord clamp.
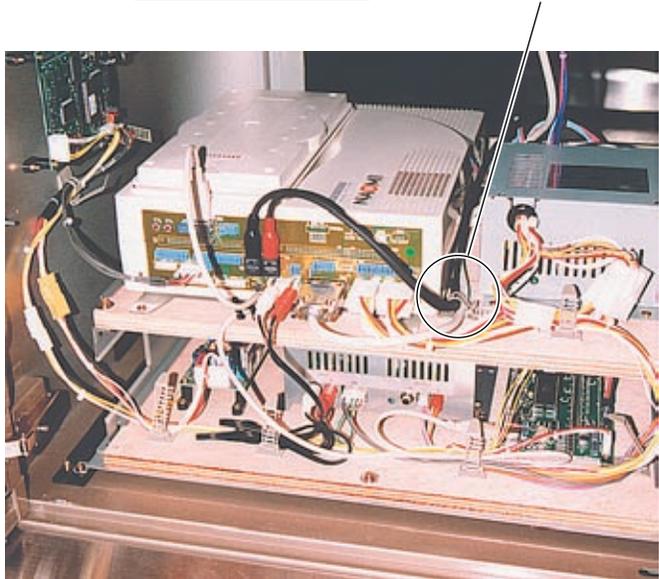
PHOTO 6. 4 e

FIBER GUIDE PLATE
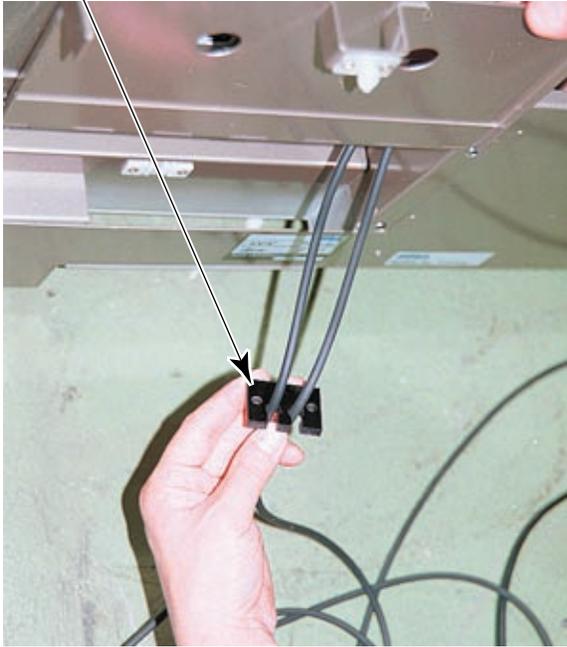
PHOTO 6. 4. f

⑨ Run the communication cables through the slit on the fiber guide plate (Photo 6. 4 f).

⑩ Secure the fiber guide plate using the 2 screws (Photo 6. 4 g)

⑪ Arrange the communication cables. Use a wiring cover to protect them.

SCREW (2)
M4×30
PHOTO 6. 4 g
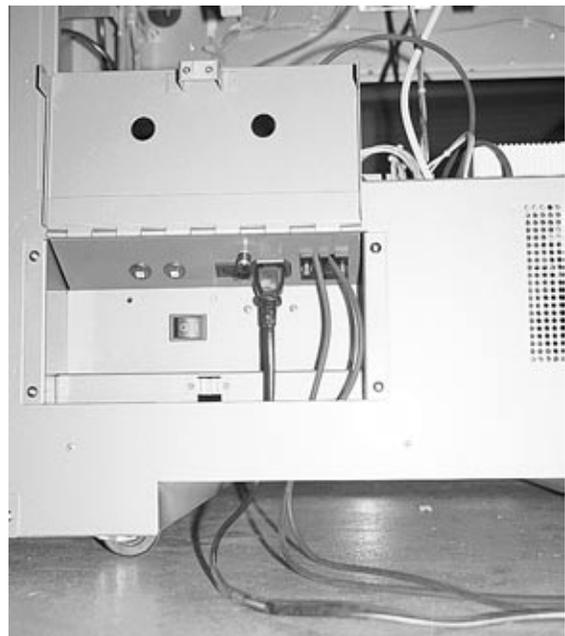
PHOTO 6. 4 h At the end of the work

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DIAGRAM EXPLAINING COMMUNICATION CABLE CONNECTIONS

The diagram below illustrates an example of communication cable usage. Communication cables of appropriate lengths should be used in accordance with satellite layout.

STOP

IMPORTANT!
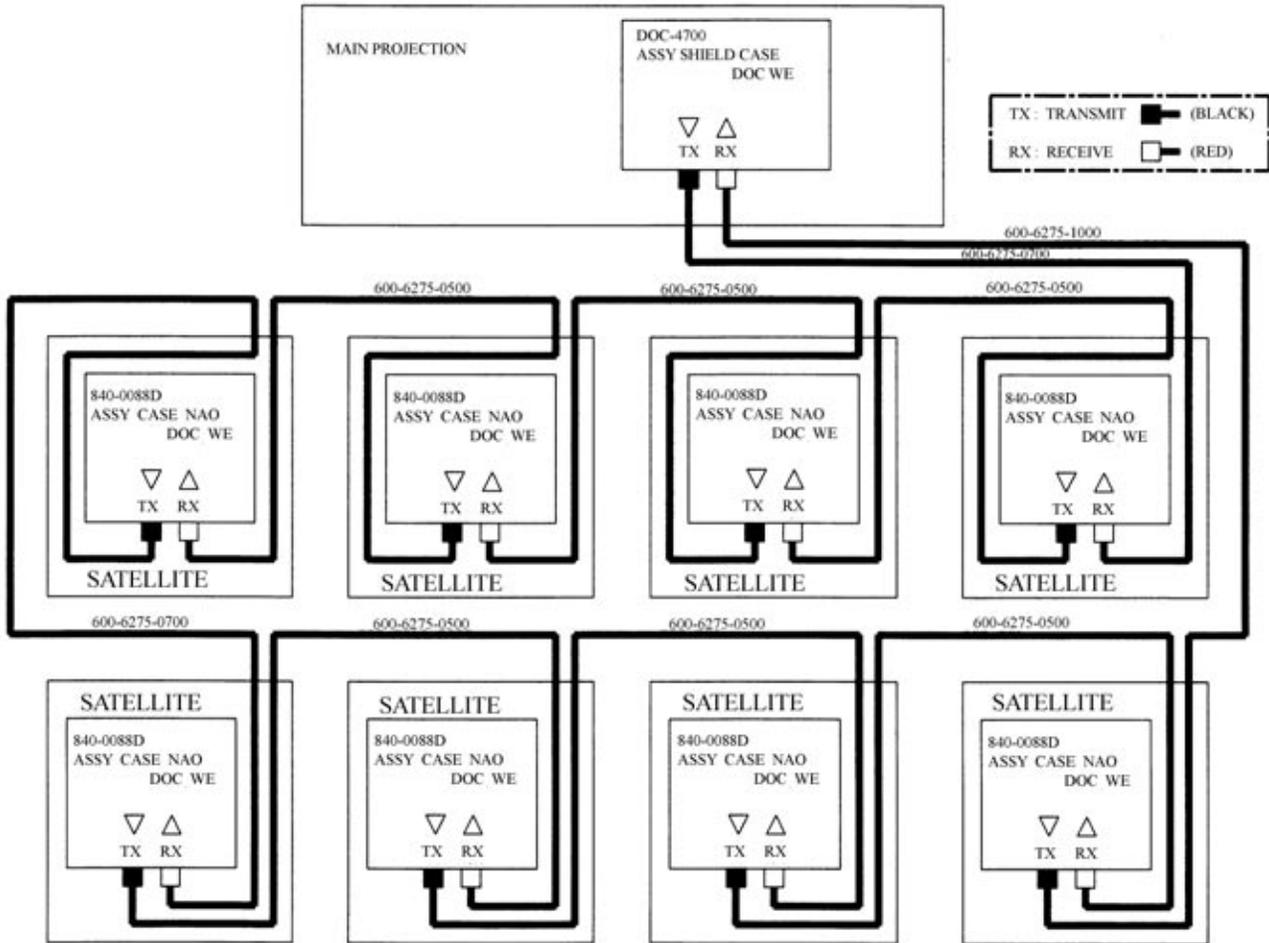
● Please be sure to use the proprietary cards for this product. Usage of other cards could cause malfunctioning or breakdown.
● Be sure to set the cards in accordance with the specified procedure, direction, and number. Incorrect setting could cause equipment breakdown or other problems.
● Up to 100 cards may be set at a time. Do not set more than 100 cards, as this could cause problems such as jamming.
● Use new, freshly opened cards. Use of deformed or degraded cards can cause problems.
● Do not mix with cards that have been creased, bent, or previously used.

The card reader/writer, in which the cards are to be set, is to the left of the monitor screen, as seen when facing the satellite. Cards can be set regardless of whether the power is switched to ON or OFF.
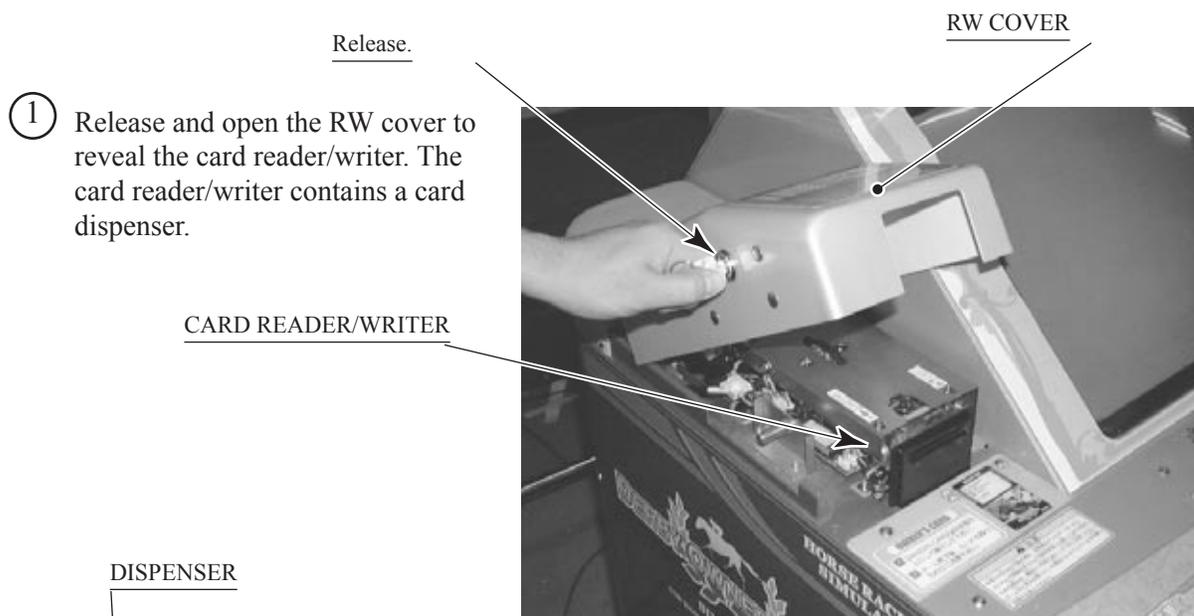
Release.

RW COVER

① Release and open the RW cover to reveal the card reader/writer. The card reader/writer contains a card dispenser.
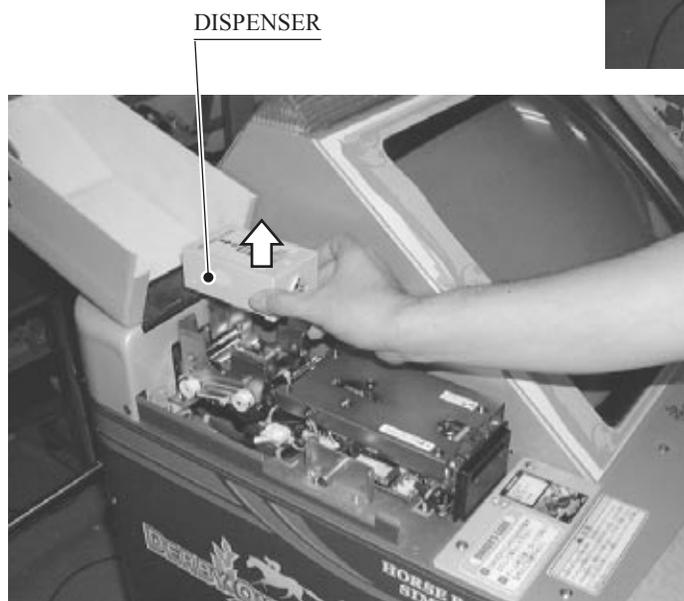
CARD READER/WRITER

PHOTO 6. 5 a

② Remove the dispenser by pulling straight up from the card reader/writer.

DISPENSER

PHOTO 6. 5 b

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③ Place the cards in the dispenser in accordance with the instructions on the sticker that appears on the dispenser. Be careful not to place the cards backwards or upside down. The number of cards that can be placed in the dispenser at any one time is 100. In order to avoid problems such as jamming, be sure not exceed this limit. Use new packages of 100 cards, or else carefully count the number of cards before placing them in the dispenser.

Use the sticker on top of the dispenser to determine correct direction of the cards.

Magnetic Card

Remove the dispenser, and open the cover.

Insert the cards, paying attention to their orientation.

Close the cover and replace the dispenser.
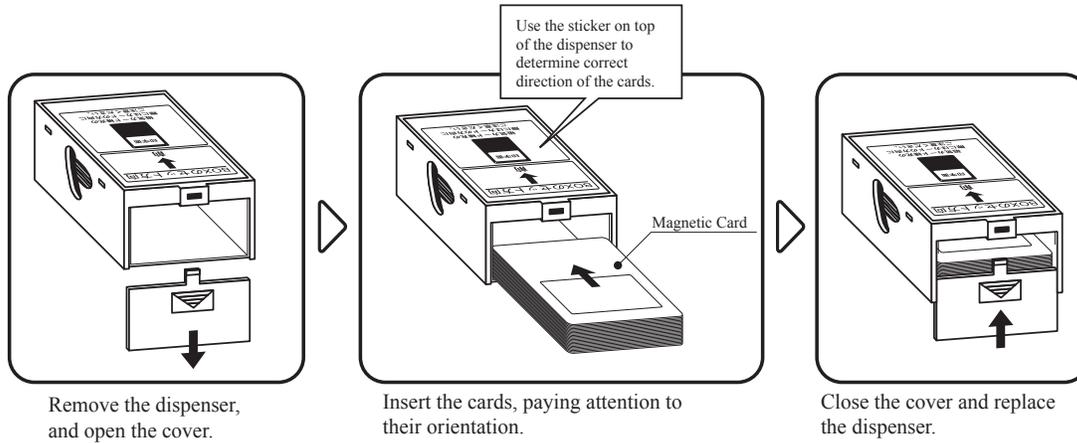
FIG. 6. 5

DISPENSER

④ Place the cover on the dispenser.

⑤ Place the dispenser back into the card reader/writer. The dispenser is designed to fit only in its correct orientation.

⑥ Close and lock the RW cover.
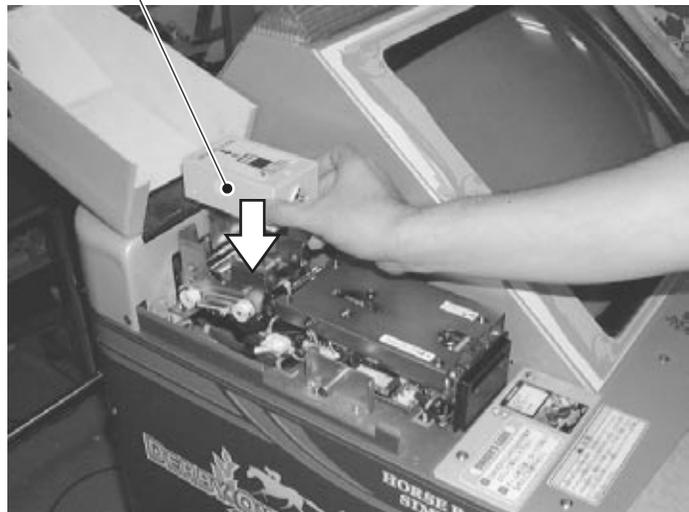
PHOTO 6. 5 c

Option Settings

Main Board Settings

1. Press the test button on the Satellite to enter the main test mode.

2. Move cursor to Game test Mode. Press the test button to enter the Game Test.

3. Move the cursor to Game Assignments. Press Test Button to enter.

4. Move cursor to "Number of Satellites". Press test to change to the proper number (4-8).
   Note: Do not change the "Race Mode" while setting the number of satellites.

5. Exit the menu.

6. Exit Game test menu, and then the Main System menu.

Satellite Board Settings

1. Press the test button on the Satellite to enter the main test mode.

2. Use the Service Button to move the cursor to Coin Settings. Make the settings on your new satellite match the settings on the existing satellites currently operating. Exit back to main test menu.

3. Move cursor to Game test Mode. Press the test button to enter the Game Test.

4. Move the cursor to Game Assignments. Press Test Button to enter.

5. Move cursor to "Number of Satellites". Press test to change to the proper number (4-8).
   Note: You must change ALL satellites to the same "Number of Satellites" setting.

6. Exit the menu.

7. Exit Game test menu, and then the Main System menu.

8. After all of the Satellites are set, the system MUST be reset by turning off the power to all satellites and the main unit.

9. Turn on power to the main unit first, then turn on the power to all satellites. Verify proper operation.

DOC Satellite Pedestal Assy
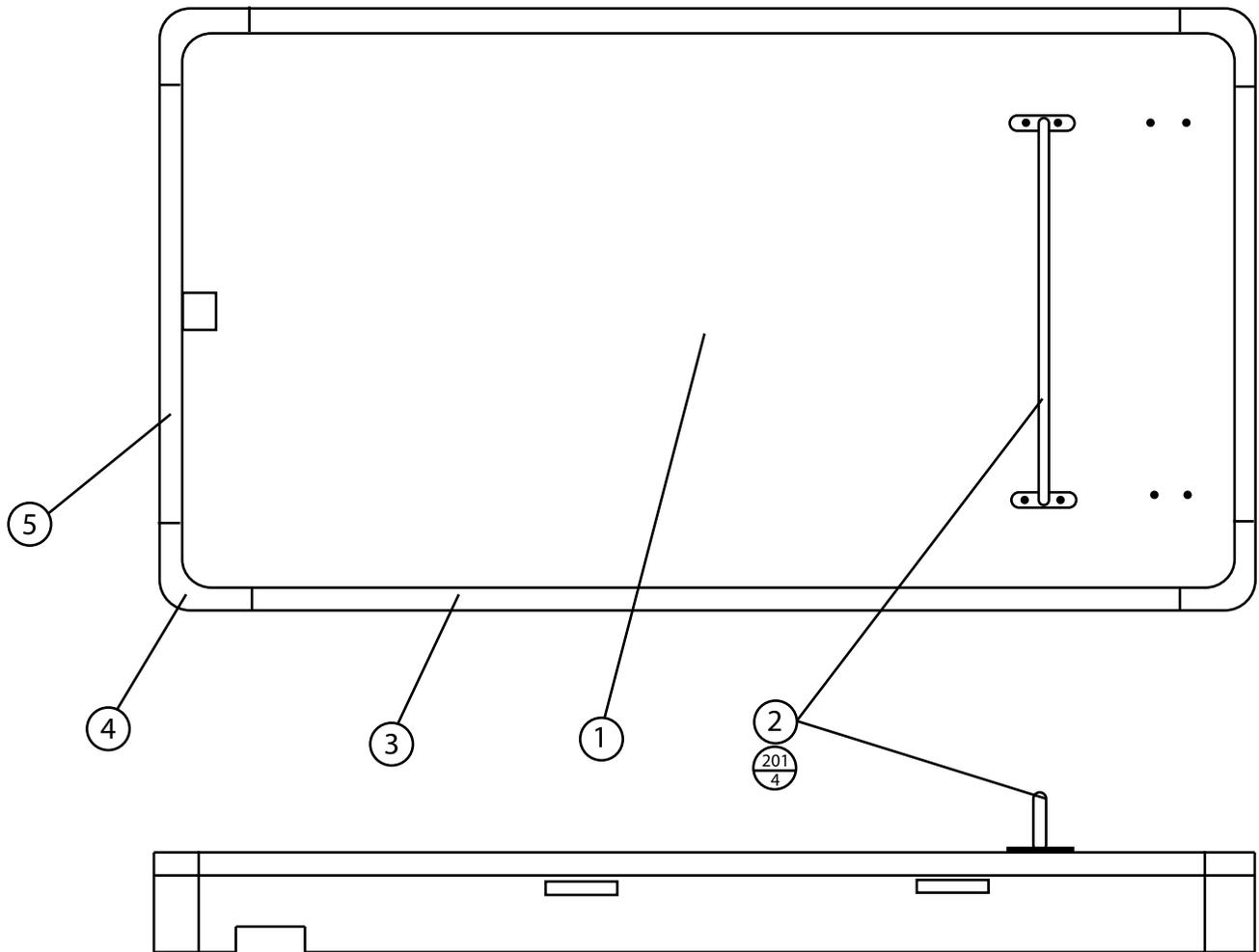
Item	Part Number	Description
1	601-11202	Carpet 1155x11545 Gray SHE-M003
2	601-11112	Seat Stopper DOC-M007 for SHE
3	105-5464	Corner Edge L1249 SCR Type DOC
4	105-5466	Corner Edge SCR Type DOC
5	105-5465	Corner Edge L859 SCR Type DOC
201	000-T00630-0C	M SCR TH CRM M6x30