

# **INSTALLATION GUIDE**

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MFR-9SDI12G  
MFR-9SDO12G  
MFR-8SDIEX  
MFR-8SDOEX

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1<sup>st</sup> Edition

# Upon Receipt

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## Unpacking

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MFR-9SDI12G/9SDO12G/8SDIEX/8SDOEX cards and their accessories are fully inspected and adjusted prior to shipment.

Check your received items against the packing lists below. Check to ensure no damage has occurred during shipment. If damage has occurred, or items are missing, inform your supplier immediately.

◆ **Packing List**

ITEM	QTY	REMARKS
MFR-9SDI12G MFR-9SDO12G MFR-8SDIEX MFR-8SDOEX	1	
Installation Guide	1	This guide book

# Before Starting

MFR-9SDI12G/8SDIEX are input cards for MFR-4000 units.

MFR-9SDO12G/8SDOEX are output cards for MFR-4000 units.

## ◆ Available Slots and Number for MFR-4000 Input / Output Cards

Slot	Slot number	Installable cards	Installable number of cards
Input slot	No.01-08 (INPUT1-8)	MFR-9SDI12G/8SDIEX	Up to 8 cards
Output slot	No.09-16 (OUTPUT1-8)	MFR-9SDO12G/8SDOEX	Up to 8 cards

## ◆ Standard SDI Signal Routing

Matrix size varies depending on the number of installed MFR-9SDI12G and MFR-9SDO12G cards as shown below. (72 x 72 to 9 x 9)

		Number of cards: MFR-9SDO12G							
		8	7	6	5	4	3	2	1
Number of cards: MFR-9SDI12G	8	72 x 72	72 x 63	72 x 54	72 x 45	72 x 36	72 x 27	72 x 18	72 x 9
	7	63 x 72	63 x 63	63 x 54	63 x 45	63 x 36	63 x 27	63 x 18	63 x 9
	6	54 x 72	54 x 63	54 x 54	54 x 45	54 x 36	54 x 27	54 x 18	54 x 9
	5	45 x 72	45 x 63	45 x 54	45 x 45	45 x 36	45 x 27	45 x 18	45 x 9
	4	36 x 72	36 x 63	36 x 54	36 x 45	36 x 36	36 x 27	36 x 18	36 x 9
	3	27 x 72	27 x 63	27 x 54	27 x 45	27 x 36	27 x 27	27 x 18	27 x 9
	2	18 x 72	18 x 63	18 x 54	18 x 45	18 x 36	18 x 27	18 x 18	18 x 9
	1	9 x 72	9 x 63	9 x 54	9 x 45	9 x 36	9 x 27	9 x 18	9 x 9

Matrix size varies depending on the number of installed MFR-8SDIEX and MFR-8SDOEX cards as shown below. (64 x 64 to 8 x 8)

		Number of cards: MFR-8SDOEX							
		8	7	6	5	4	3	2	1
Number of cards: MFR-8SDIEX	8	64 x 64	64 x 56	64 x 48	64 x 40	64 x 32	64 x 24	64 x 16	64 x 8
	7	56 x 64	56 x 56	56 x 48	56 x 40	56 x 32	56 x 24	56 x 16	56 x 8
	6	48 x 64	48 x 56	48 x 48	48 x 40	48 x 32	48 x 24	48 x 16	48 x 8
	5	40 x 64	40 x 56	40 x 48	40 x 40	40 x 32	40 x 24	40 x 16	40 x 8
	4	32 x 64	32 x 56	32 x 48	32 x 40	32 x 32	32 x 24	32 x 16	32 x 8
	3	24 x 64	24 x 56	24 x 48	24 x 40	24 x 32	24 x 24	24 x 16	24 x 8
	2	16 x 64	16 x 56	16 x 48	16 x 40	16 x 32	16 x 24	16 x 16	16 x 8
	1	8 x 64	8 x 56	8 x 48	8 x 40	8 x 32	8 x 24	8 x 16	8 x 8

# 1. I/O Card Installation / Replacement

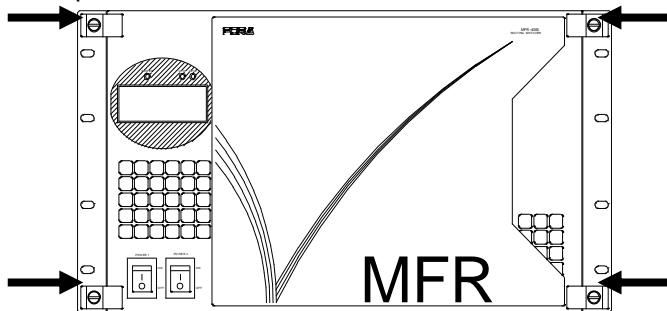
## IMPORTANT

Contact FOR-A agent or service center for I/O Card installation and replacement work since such work should only be conducted by qualified technical personnel.

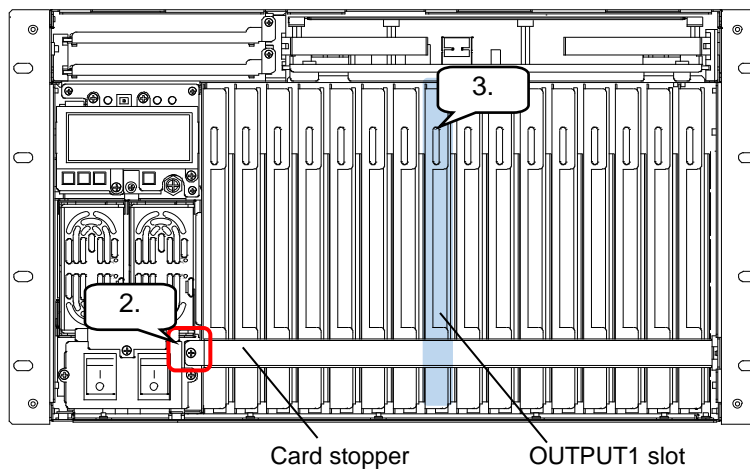
## 1-1. How to Install a New Card

The following procedure shows how to install an output card into OUTPUT1 slot.

1. Unfasten to remove four fixing screws along the front panel as shown and detach the front panel.



2. Remove the screw on the left side of the card stopper (circled in red) and detach the stopper.
3. Detach the OUTPUT1 slot blank panel.



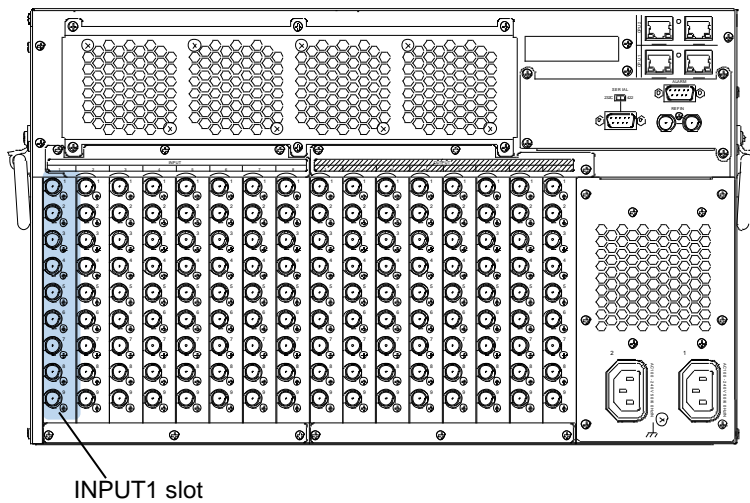
4. Insert a new card firmly into the OUTPUT1 slot.  
\* Confirm the slot number and direction before card insertion.
5. Re-install the card stopper removed in Step 2.
6. Turn the OUTPUT1 slot ON using [SETTING > SLOT SHUTDOWN] menu in Menu display. See MFR-4000 Operation Manual Sec. 4-2-2. "Turning ON/OFF an Input/ Output Card" for details.
7. Verify that LEDs on the card installed into OUTPUT1 light up.
8. Re-install the front panel.

A new card installation is now complete.

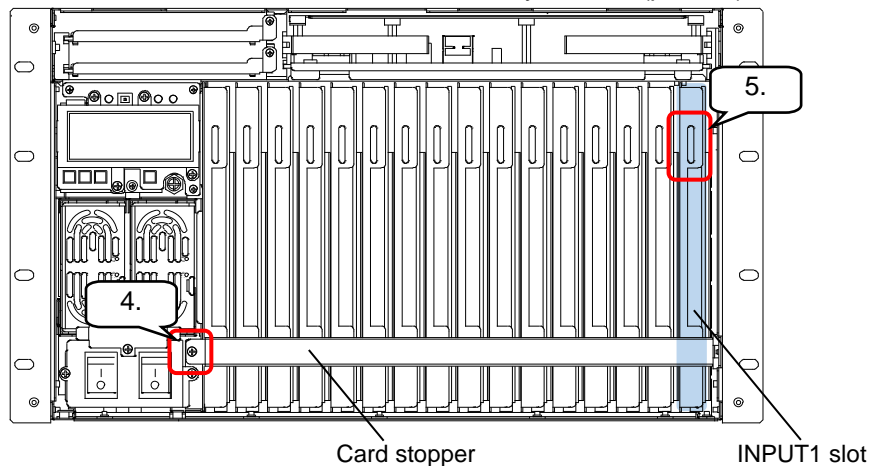
## 1-2. How to Replace a Card

The following procedure shows how to replace a card in INPUT1 to a new input card.

1. Detach all the BNC cables connected to the INPUT1 connector ports.



2. Unfasten to remove four fixing screws along the front panel and detach the front panel.
3. Shutdown the INPUT1 slot in [SETTING > SLOT SHUTDOWN] menu of Menu Display. See MFR-4000 Operation Manual Sec. 4-2-2. "Turning ON/OFF an Input/ Output Card" for details.
4. Remove the screw on the left side of the card stopper and detach the stopper.
5. Grab the INPUT1 slot card handle and slowly remove (pull out) the card.



6. Insert a new card firmly into the INPUT1 slot.  
\* Confirm the slot number and direction before card insertion.
7. Re-install the card stopper removed in Step 4.
8. Turn the INPUT1 slot ON using [SETTING > SLOT SHUTDOWN] menu in Menu display. See MFR-4000 Operation Manual Sec. 4-2-2. "Turning ON/OFF an Input/ Output Card" for details.
9. Verify that LEDs on the card installed into INPUT1 light up.
10. Re-install the front panel.

The card replacement is now complete.



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