14 Wiring adaptor for other air-conditioner

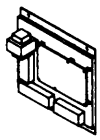
DTA103A51

Applicable models

Kit	Applicable model
DTA103A51	DCS301B61 DCS302B61 DPF201A1 DST301B61 DDS501A51 KRP2A61·62

ACCESSORIES

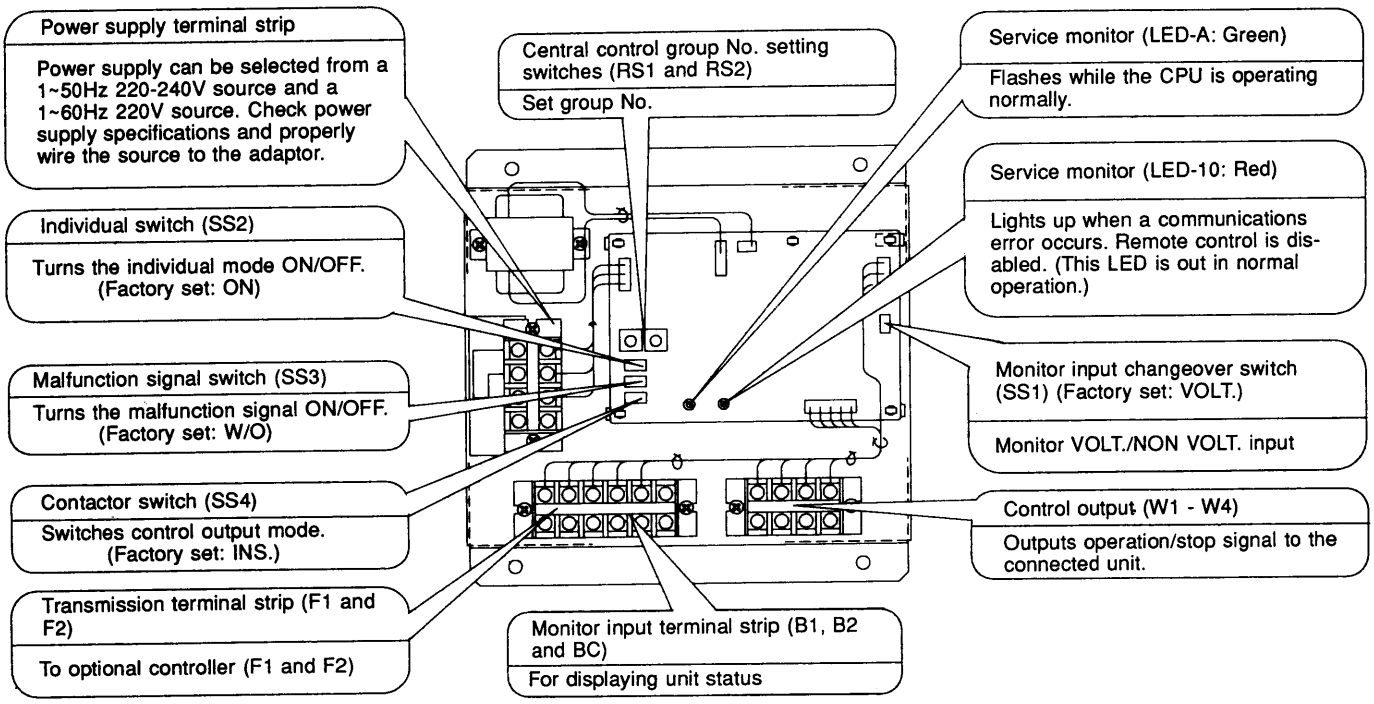
Check the following accessories are included in the kit.

Adapter 	Installation screws x 4
	Clamp x 3
	Installation manual x 2

1 FUNCTION

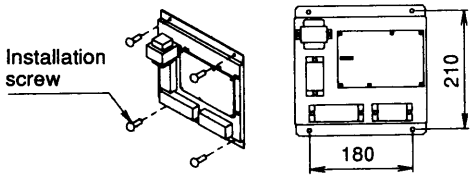
This kit contains an I/O interface adaptor for optional controller for centralized control, used when there is a non-connectable air conditioner. When connected to the central control line, this adaptor enables operation/stop and display of operation/error monitors from the optional controller.

2 NAMES OF PARTS AND FUNCTION



3 INSTALLATION

Securely install the adaptor with the attached installation screw.



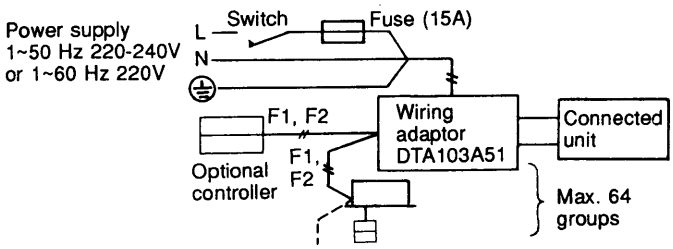
〈 **NOTE** 〉

Install the adaptor inside a control box of outer dimensions: 230W x 230D x 60H.
Supply a control box at site with outer dimensions equal to or larger than those shown below.
230W x 230D x 60H.

4 ELECTRIC WIRING WORK

WIRING REQUIREMENTS

① Wire between the adaptor and optional controller (F1,F2).
. . . For details, refer to the installation manual of the optional controller.
② Wire to the connected units and set all switches.
. . . For details, refer to WIRING TO CONNECTED UNITS.
③ Wire to the power supply.
. . . For details, refer to POWER SUPPLY WIRING.



GENERAL INSTRUCTIONS

- All wiring, components and materials to be procured on the site must comply with the applicable local and national codes.
- Use copper conductors only.
- All field wiring and components must be provided by licensed electrician.
- Unit shall be grounded in compliance with the applicable local and national codes.
- Fit the power supply wiring with a fuse and a switch.
- After wiring work, check power to the equipment shuts OFF when the switch is shut OFF.

WIRING SPECIFICATION

	Type	Size
Power supply wiring	H05VV-U3G	(Note 1)
Transmission wiring	(Note 2)	0.75 – 1.25 mm²

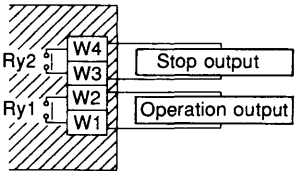
NOTE) 1. Select the size in electric wire in accordance with the local and national standards.
2. You can use the shielded wire, sheathed vinyl cord or cable (2 conductors). See the installation manual of the optional controllers for centralized control to be connected for further details.

WIRING TO CONNECTED UNITS

CONTROL OUTPUT

Terminals W1 - W4 are non voltage contacts used in normal operation to output operation display (W1 and W2) and error display (W3 and W4) signals.

Ry1 and Ry2 contact specifications		
Voltage	Max. current	Min. current
1~50Hz 220–240V 1~60Hz 220V	2A	1mA
⎓ 5–24V	3A	1mA

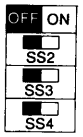


Output modes include instantaneous output and constant output. Mode is changed at the contactor switch (SS4). (Factory set: INS)

Setting by switch ON/OFF

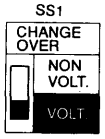
	SETTING	OFF	ON
SS2	INDIVIDUAL	ON	OFF
SS3	MAL. SIGNAL	W/O	W
SS4	CONTACTOR	INS.	CON.

The figure on the right shows the factory set switch positions.



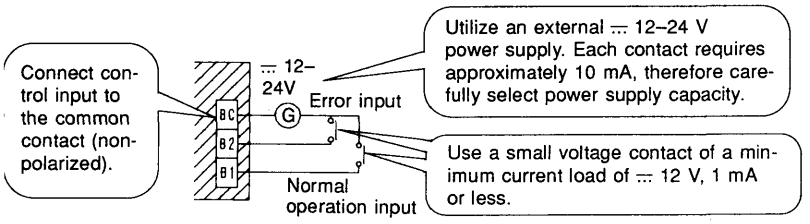
MONITOR INPUT

Wire as explained here following, depending on whether input carries a voltage (VOLT.) or not (NON VOLT.). Make the VOLT./NON VOLT. setting at the monitor input changeover switch (SS1).



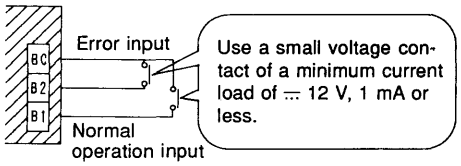
(For voltage charged input)

Set the monitor input changeover switch to VOLT. (Factory set: VOLT.)



(For non voltage input)

Set the monitor input changeover switch to NON VOLT. (Factory set: VOLT.)



① Switch the malfunction signal switch (SS3) according to needs (Factory set: W/O [OFF]). Set the switch to W (ON) to display errors even if no operation feedback from the indoor unit is available, for example, when power to the indoor unit is OFF. Together, set the individual switch (SS2) to OFF (ON).

NOTE
- This switch is ineffective when SS2 is set to ON (OFF).
- The optional controller display will change, as shown on the right, depending on the monitor input state and the malfunction signal switch (SS3) setting.
- After switching the optional controller from stop to operation, it will take from 10 to 30 seconds before the optional controller display will indicate an error.

(SS3) Malfunction signal	Optional controller display at command output		
	Monitor input state		
	Operation input ON	Operation input OFF	Error input ON
W	Operation display	Error (A1 display)	Error (A1 display)
W/O		Operation display	

② Set the group No. at the central control group No. setting switches (RS1 and RS2). Refer to the below table to set group No. Group No. increases in the order of 1-00, 1-01 ... 1-15, 2-00, ... 4.15. Refer to the installation manual of the optional controller.

RS1 switch setting and upper group No. position

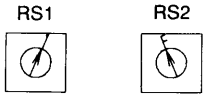
Position	0	1	2	3	4	5	6	7	8	9
Group No.		1	2	3	4					

RS2 switch setting and lower group No. position

Position	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Group No.	00	01	02	03	04	05	06	07	09	09	10	11	12	13	14	15

NOTE
- Group number need not be set on this adaptor during individual use with either a a wiring adaptor for electrical appendices or a schedule timer. Setting is automatic.

Ex. Setting group No. 1-15



First and second group Nos. are indicated as below.

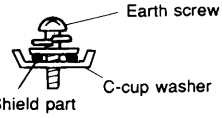
1 – 15

Upper No. Lower No.

Make settings before turning ON the power.

POWER SUPPLY WIRING

Power supply can be selected from a 1~50 Hz 220-240V source and a 1~60 Hz 220V source. Check power supply specifications and properly wire the source to the adaptor.



《 **NOTE** 》
- Ground wires as shown in the figure on the right.
- The adaptor may malfunction or be damaged if improperly wired.
- The fuse is designed for short-circuit protection (Overcurrent protection). Therefore, it may not offer sufficient protection against improper voltage.