



# INSTALLATION MANUAL

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## ZONE CONTROLLER

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### MODELS

BRC230Z4  
BRC230Z8  
BRC24Z4  
BRC24Z8  
BRCSZC

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PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION.  
KEEP THIS MANUAL IN A HANDY PLACE FOR FUTURE REFERENCE.

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# SAFETY CONSIDERATIONS

Please read these "SAFETY CONSIDERATIONS" carefully before installing the zone controller and be sure to install it correctly. After completing the installation, make sure that the zone controller operates properly. Please instruct the customer on how to operate the zone controller.

Please inform the customer that they should store this installation manual along with the operation manual for future reference. This controller comes under the term "appliances not accessible to the general public".

Meaning of warning and caution symbols

 **WARNING** . . . . . Failure to observe a warning may result in death, injury or damage to the equipment.

 **CAUTION** . . . . . Failure to observe a caution may result in injury or damage to the equipment.

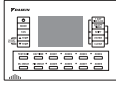
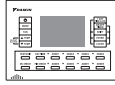
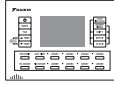
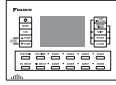








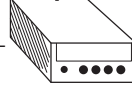
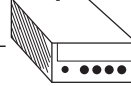
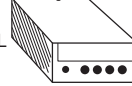
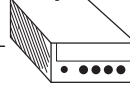

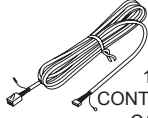
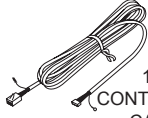
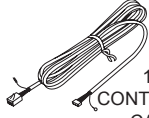
## **WARNING**

- Ask your Dealer or qualified personnel to carry out installation work. Do not try to install the zone controller yourself.
- Perform installation work in accordance with this installation manual. Improper installation may result in electric shock or fire.
- Be sure to use only the specified accessories and parts for installation work. Failure to use the specified parts may result in electric shock, fire or the zone controller failing.
- Make sure that all electrical work is carried out by qualified personnel according to local laws, regulations and this installation manual. An insufficient power supply capacity or improper electrical construction may lead to electric shock or fire.
- Make sure that all wiring is secured, the specified wires are used, and no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.
- When wiring the power supply and connecting the wiring between the unit electrical box, zone controller box and zone motors, position the wires so that the zone controller box cover can be securely fastened. Improper positioning of the zone controller box cover may result in electric shock, fire or the terminals overheating.
- Before obtaining access to the terminals and electrical parts, all supply circuits must be disconnected.
- Do not install the remote controller where it may be exposed to rain or moisture. Water or other fluids on the electrical components may result in fire or electric shock.
- Earth the zone controller box. Do not connect the earth wire to gas or water pipes, a lightning conductor or a telephone ground wire. Incomplete earthing may result in electric shock.
- Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shock.
- Do not install the remote controller where flammable gases may leak, where there are carbon fibre or ignitable dust suspended in the air, or where volatile flammables such as thinner or gasoline are handled.
- Do not install the remote controller where the area is filled with steam or the ground is always wet. Insulation of the electric components may be damaged in such conditions and may result in electric shock.

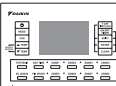
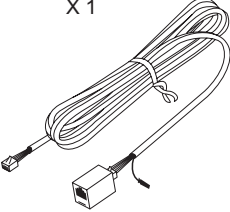




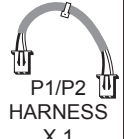




## **CAUTION**

- Install the zone controller, power cords and connecting wires at least 1 metre away from televisions or radios in order to prevent image interference or noise.  
(Depending on the radio waves, a distance of 1 metre may not be sufficient enough to eliminate noise.)
- Do not install the zone controller in the following locations:
  - (a) Where a mineral oil mist, oil spray or vapour is produced, for example in a kitchen.  
Plastic parts may deteriorate.
  - (b) Near machinery emitting electromagnetic waves.  
Electromagnetic waves may disturb the operation of the control system and result in a malfunction of the equipment.
  - (d) Where salinity in the air is relatively high.

# ACCESSORIES

MODEL	(4 zone 230-240V) BRC230Z4	(8 zone 230-240V) BRC230Z8	(4 zone 24VAC) BRC24Z4	(8 zone 24VAC) BRC24Z8
SHAPE & QUANTITY	 ZONE KEYPAD X 1	 ZONE KEYPAD X 1	 ZONE KEYPAD X 1	 ZONE KEYPAD X 1
	SCREW X 2 	SCREW X 2 	SCREW X 2 	SCREW X 2 
	MOUNTING BRACKET X 1 	MOUNTING BRACKET X 1 	MOUNTING BRACKET X 1 	MOUNTING BRACKET X 1 
	230-240V 4 ZONE CONTROL BOX X 1 	230-240V 8 ZONE CONTROL BOX X 1 	24V 4 ZONE CONTROL BOX X 1 	24V 8 ZONE CONTROL BOX X 1 
	15M CONTROLLER CABLE X 1 	15M CONTROLLER CABLE X 1 	15M CONTROLLER CABLE X 1 	15M CONTROLLER CABLE X 1 

# OPTIONAL ACCESSORIES

MODEL	(SUB CONTROLLER) BRCSZC	15M EXTENSION LEAD BRCW902A15
SHAPE & QUANTITY	 SUB ZONE KEYPAD X 1	X 1 
	15M CONTROLLER CABLE X 1 	
	SCREW X 2 	POWER HARNESS X 1 
	MOUNTING BRACKET 	P1/P2 HARNESS X 1 
	INTERFACE PCB X 1 	CABLE TIE X 5 
	INSTALLATION INSTRUCTION X 1 	PCB POST X 4 

# HOW TO WIRE & INSTALL BRC230Z4 / BRC230Z8

**Note 1:**

You may find it easier to wire the control box before mounting the box to the indoor unit, for example when the ceiling space is tight. If you choose to wire the control box before mounting it to the indoor unit ensure to allow adequate cable length.

**Note 2:**

Please refer to *Electric Wiring Work Pg. 14* of this manual to determine cable connection style and to ensure the wiring connections are appropriate.

**Note 3:**

Ensure all field wiring passes through the black plastic wiring bushes located at the bottom of the controller box.

**Step 1.**

Attach the Zone control box to the body of the indoor unit using the (4) M6 screws supplied. (Fig.1)

Be careful not to cause damage to the internal components of the Zone control box when attaching the box to the indoor unit.

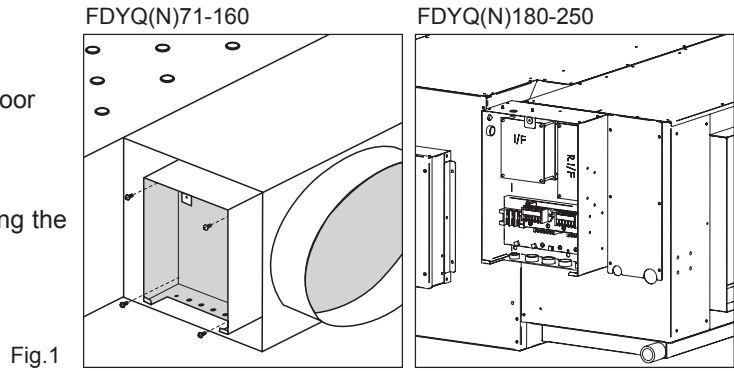
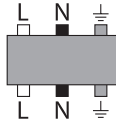


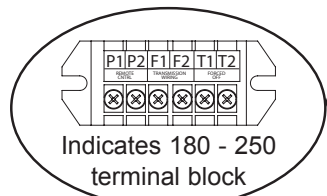
Fig.1

**Step 2.**

Pass both ends of the field supplied cable through the plastic bushes of the indoor unit electrical box and zone controller box. Strip both ends of the cable. Connect the stripped wires to the LN terminals of the unit electrical box and the zone controller box.



By using a cable tie (field supplied), secure both ends of the LN cable to the anchor as shown in (Fig.2) ensuring the cable tie is secured to the outer insulation of the cable.



**Step 3.**

Connect the loose end of P1 P2 communication cable to the P1 P2 terminal block of the indoor unit electrical box. (No polarity)

By using a cable tie (field supplied) secure P1 P2 communication cable to the anchor as shown in (Fig.3).

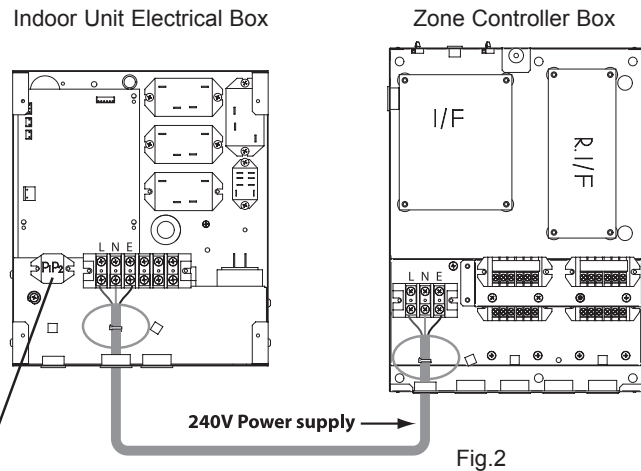


Fig.2

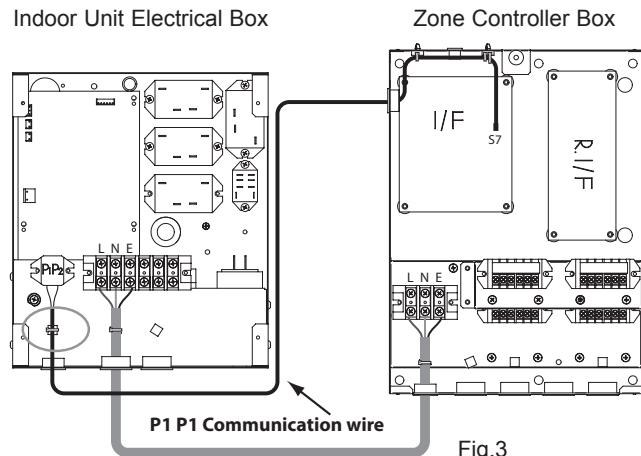


Fig.3

Fig.4a

**Step 4.**

Pass the remote controller cable through the two open cable ties (factory supplied).

Connect the remote controller cable to the Interface PCB ( A1P) by inserting the remote controller cable plug into socket S8. (Fig.4)

Wire the  $\oplus$  shield wire of the remote controller cable to the shield fastening point. (Fig.4a)

**Note 4:**

*When installing KRCSO1-1 (option) or BRCSZC (option), do not tighten the cable ties until you have passed all cables through the 2 open cable ties.*

Tighten the 2 cable ties to anchor. (Fig.4a)

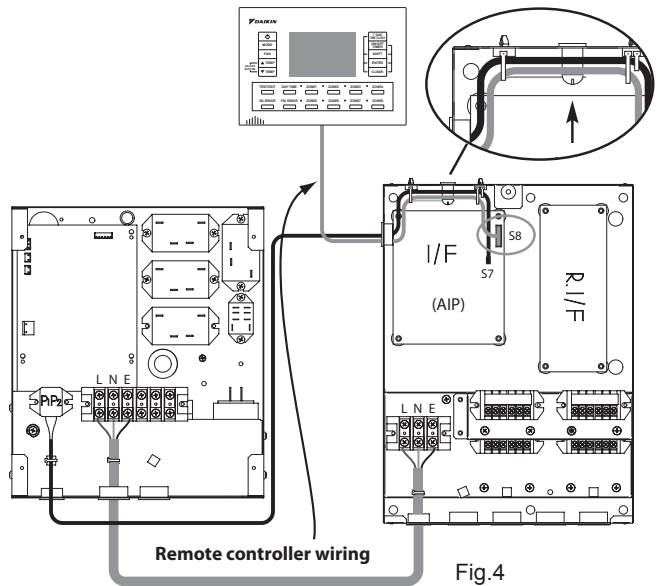


Fig.4

**Step 5.**

Wire the zone motors to the zone motor terminal blocks X4M (Fig.5) (zone motor field supplied)

Pay close attention to the terminal labelling.

When wiring “motor open motor closed” zone motors ensure open, close & neutral wires are wired to respective terminals.

**Note 5:**

*For zone motors that require earthing. (Ensure zone motors are earthed to the individual earth connections provided.)*

- Open = Active
- Closed = Active
- Common = Neutral

When using a spring return zone motor only use the Open & Common terminal connections.

By using a cable tie (field supplied), secure the zone motor leads to the anchor as shown in (Fig.5) ensuring the cable tie is secured to the outer insulation of the cable.

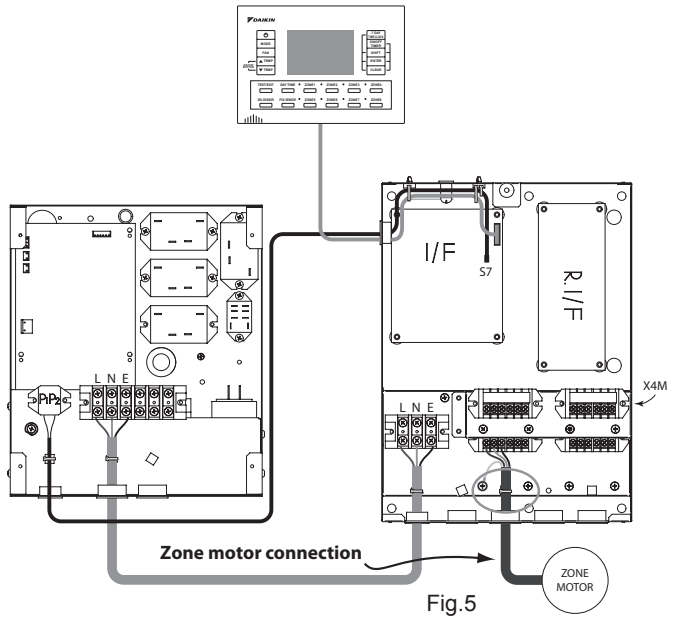


Fig.5

**Note 6:**

*Refer to DSI settings on page 12 before installing the zone controller box cover.*

**Step 6.**

Install the indoor unit electrical box cover and the zone control box cover. (Fig.6)

Ensure the cover fits tightly and cables are not in contact with the underside of cover or cover edges.

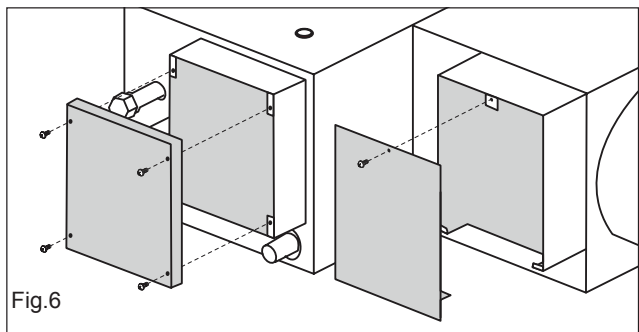


Fig.6

# HOW TO WIRE & INSTALL BRC24Z4 / BRC24Z8

**Note 1:**

You may find it easier to wire the control box before mounting the box to the indoor unit, for example when the ceiling space is tight. If you choose to wire the control box before mounting it to the indoor unit ensure to allow adequate cable length.

**Note 2:**

Please refer to *Electric Wiring Work Pg. 14* of this manual to determine cable connection style and to ensure the wiring connections are appropriate.

**Note 3:**

Ensure all field wiring passes through the black plastic wiring bushes located at the bottom of the controller box.

**Step 1.**

Attach the Zone control box to the body of the indoor unit using the (4) M6 screws supplied. (Fig.1)

Be careful not to cause damage to the internal components of the Zone control box when attaching the box to the indoor unit.

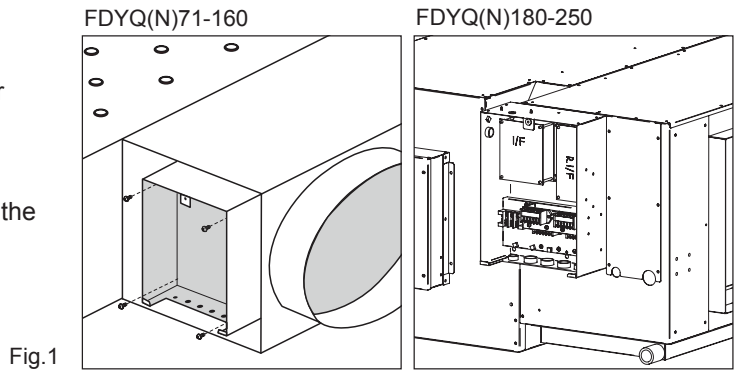
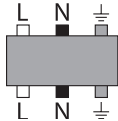


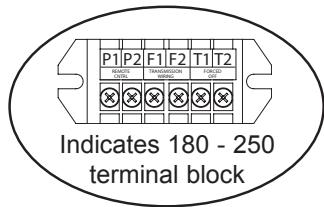
Fig.1

**Step 2.**

Pass both ends of the field supplied cable through the plastic bushes of the indoor unit electrical box and zone controller box. Strip both ends of the cable. Connect the stripped wires to the LN terminals of the unit electrical box and the zone controller box.

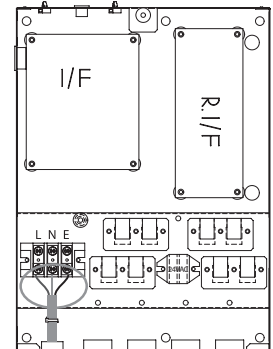
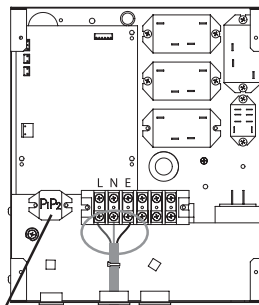


By using a cable tie (field supplied), secure both ends of the LN cable to the anchor as shown in (Fig.2) ensuring the cable tie is secured to the outer insulation of the cable.



Indoor Unit Electrical Box

Zone Controller Box



240V Power supply

Fig.2

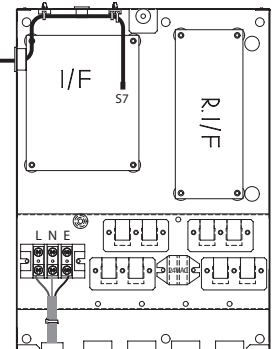
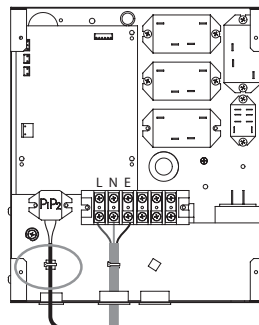
**Step 3.**

Connect the loose end of P1 P2 communication cable to the P1 P2 terminal block of the indoor unit electrical box. (No polarity)

By using a cable tie (field supplied) secure P1 P2 communication cable to the anchor as shown in (Fig.3).

Indoor Unit Electrical Box

Zone Controller Box



P1 P2 Communication wire

Fig.3



**Step 4.**

Pass the remote controller cable through the two open cable ties (factory supplied).

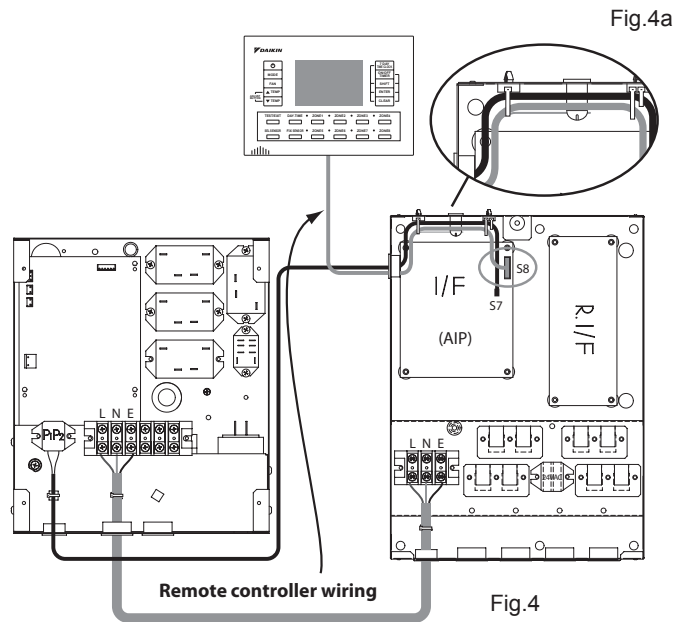
Connect the remote controller cable to the Interface PCB ( A1P) by inserting the remote controller cable plug into socket S8. (Fig.4)

Wire the  $\oplus$  shield wire of the remote controller cable to the shield fastening point. (Fig.4a)

**Note 4:**

*When installing KRCSO1-1 (option) or BRCSZC (option), do not tighten the cable ties until you have passed all cables through the 2 open cable ties.*

Tighten the 2 cable ties to anchor. (Fig.4a)



**Step 5.**

Connect the zone motor RJ12 plugs into the respective zone sockets. (zone motors and leads field supplied)

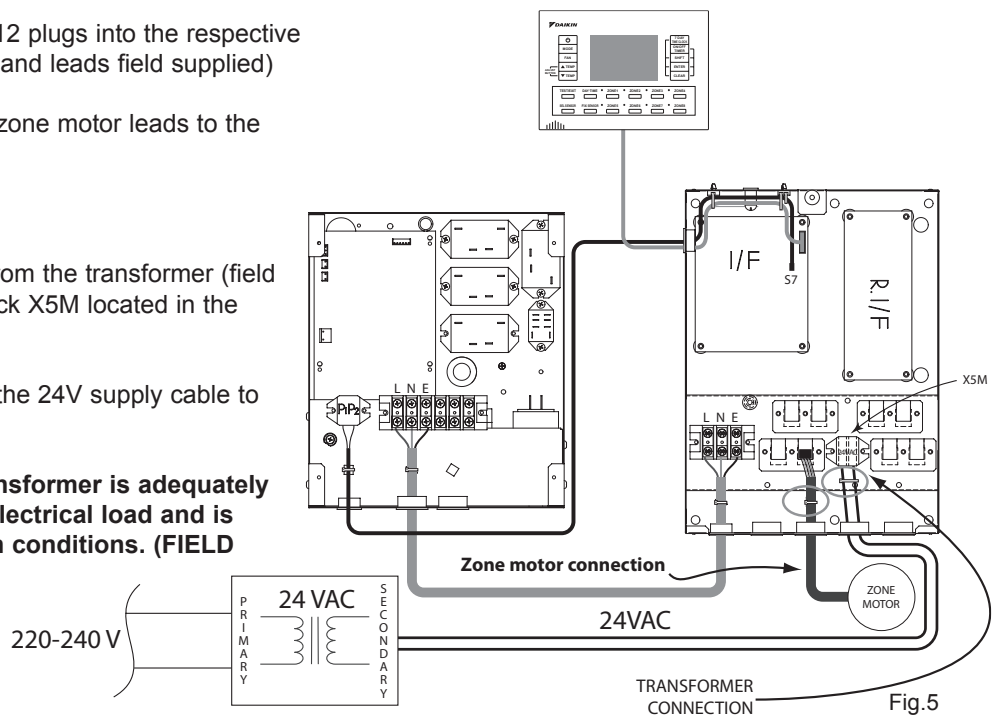
By using a cable tie secure zone motor leads to the anchor as shown in (Fig.5)

**Step 6.**

Wire 24V AC supply leads from the transformer (field supplied) to the terminal block X5M located in the zone controller box. (Fig.5)

By using a cable tie secure the 24V supply cable to the anchor. (Fig.5)

**Important: Ensure the transformer is adequately sized for the zone motor electrical load and is suitable for the installation conditions. (FIELD SUPPLIED)**



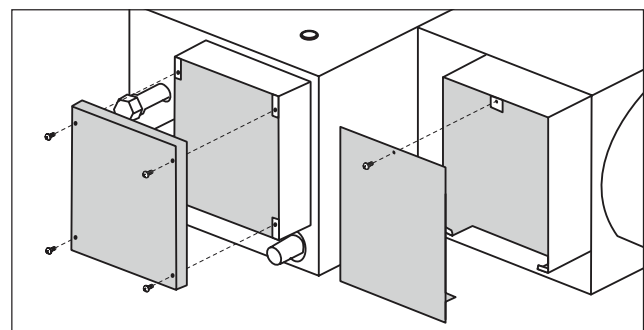
**Note5:**

*Refer to DSI settings on page12 before installing the zone controller box cover.*

**Step 7.**

Install the indoor unit electrical box cover and the Zone control box cover. (Fig.6)

Ensure the cover fits tightly and cables are not in contact with the underside of cover or cover edges.



# INSTALLING REMOTE SENSOR 1 & 2

Step 1.

Using Daikin option KRCSO1-1 cut plug off lead. (Fig.7)

Step 2.

Carefully strip the insulation of the leads exposing the core wire. Insert the 2 stripped wires into the two terminal holes of terminal block TN1. Repeat the process using terminal block TN2 if a second sensor is required.

Step 3.

Carefully tighten the terminal screws, be careful not to over tighten the screws. (When connecting 1 sensor use terminal block TN1) Please refer to note 4. (Page 7 or 9) Ensure cables are secured by the 2 cable ties provided. **Do not allow KRCSO1-1 cables to come in contact with live power or PCB's.**

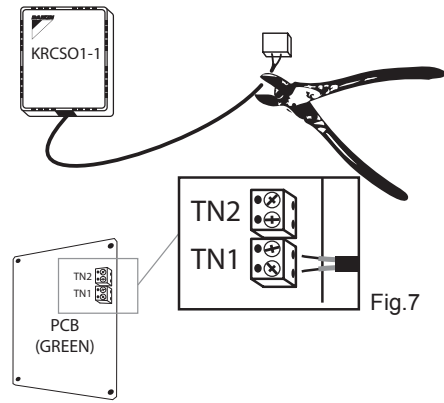
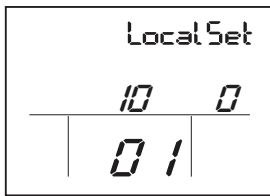


Fig.7

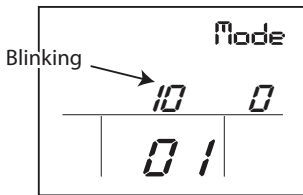
## FIELD SETTINGS

**\*Required for system set up. If field settings are not entered the system will operate in the default condition. (Pg.11)**

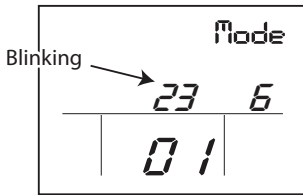
Example. How to set Field Setting 23-6-02 (High Static Fan)



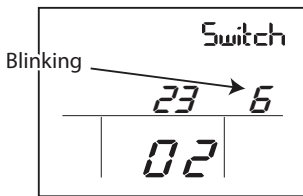
Step 1



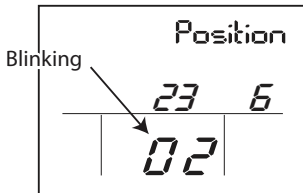
Step 2



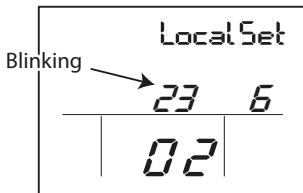
Step 3



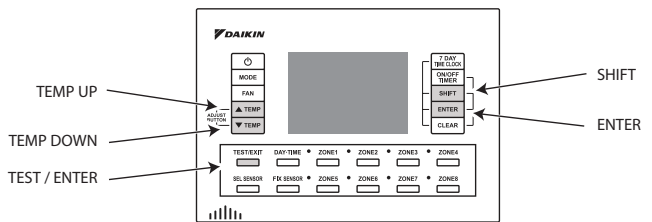
Step 4



Step 5



Step 6



Step 1.

Press and hold the test button for approximately 4 seconds or until the “Local Set” screen is displayed. (Note 1: If you do not continue to hold the test button the inspection screen will be displayed, if the inspection screen appears press the test button twice and the screen will resume normal display.)

Step 2.

Press the “Shift” button once, “Mode” and the first digit will be displayed. The first digit of the Field code number will start to flash.

Step 3.

Choose the Field setting number you wish to set by using the “Temperature up or down” buttons. Eg. 23  
Step 4.

Press the “Shift” button once, “Switch” will be displayed and the second digit will start to flash. By using the “Temperature up” button change the second digit if required. Eg. 6 (Note 2: Wait for the second digit to appear before adjusting.)

Step 5.

Press the “Shift” button once, “Position” will be displayed and the third digit will start to flash. By using the “Temperature up” button change the third digit if required. Eg. 02

Step 6.

Press the “Enter” button once, “Local Set” will be displayed.

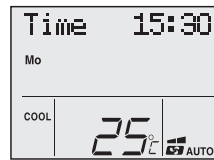
Step 7.

Press the “Test” button once. 88 may display for a few seconds, normal display will resume once 88 disappears.

## Auto fan function with air sampling mode

- Auto fan function will activate once the set point temperature is achieved (thermo off) and will deactivate when the room temperature is outside the set point range (thermo on).
- During Auto fan function the indoor fan will stop for a period of 6 minutes and then start for a period of 30 seconds or more (depending on model) in order to sample the room temperature.
- Auto fan function will only activate when the “Indoor

- Sens” (Indoor unit air temperature sensor) is selected.
- Auto fan function will operate the same as Std. fan function when other sensors are selected.



The table below indicates the possible Std. & Auto fan functions available during thermo off for heating & cooling, please select the most appropriate fan function to suit the clients requirements.

## Indoor fan settings

Fan operation during thermo. Off			Applies to models FDYQ(N)71FV1 & FDYQ(N)100-160KV1		Applies to models FDYQN200-250KV1 & FDYQ180-250MV1	
Mode	Switch	Position	Std. Fan function	Auto fan function with air sampling mode	Std. fan function	Auto fan function with air sampling mode
1b	2	01	LL	OFF (Air sampling LL)	LL	OFF (Air sampling LL)
		02	Set speed	OFF (Air sampling Set speed)	Set speed	OFF (Air sampling Set speed)
		03	OFF	OFF (Air sampling OFF)	OFF	OFF (Air sampling OFF)
1b	7	1	LL	OFF (Air sampling LL)	Set speed	Set speed
		2	Set speed	OFF (Air sampling Set speed)	Set speed	Set speed
		3	OFF	OFF (Air Sampling OFF)	Set speed	Set speed

## Other field settings

Field Settings			Set item
Mode	Switch	Position	
1b	0	01	Sensor 1 OFF
	1	01	Sensor 2 OFF
	0	02	Sensor 1 ON (Remote sensor KRCSO1-1 required)
	1	02	Sensor 2 ON (Remote sensor KRCSO1-1 required)
	3	01	Zone 1 only
	3	02	Zones 1-2
	3	03	Zones 1-3
	3	04	Zones 1-4
	3	05	Zones 1-5
	3	06	Zones 1-6
	3	07	Zones 1-7
	3	08	Zones 1-8
	4	01	Keep 1 Zone ON
	4	02	All Zones OFF
	5	01	Master RC OFF
	5	02	Master RC ON
23	6	01	Sub RC OFF
	6	02	Sub RC ON (Sub controller BRCSZC required)
20	3	01	Standard static pressure (FDYQ(N)71-160 only)
	3	02	High static pressure (FDYQ(N)71-160 only)
20	3	01	Filter sign indication ON
	3	02	Filter sign indication OFF

Default Settings			Set item	
Mode	Switch	Position		
1b	0	01	Sensor 1 OFF	
	1	01	Sensor 2 OFF	
	3	08	8 Zones available	
	4	02	All zones OFF	
	5	01	Master RC OFF	
	6	01	Sub RC OFF	
	2	01	Fan operation heating (Thermo off.)	
	7	01	Fan operation cooling (Thermo off.)	
	23	6	01	Standard static pressure (FDYQ(N)71-160 only)
	20	3	01	Filter sign indication ON

## Temperature sensor activation

Note 3.

You have a choice of 5 temperature sensors.

- 1.) Indoor Sens – Temperature sensor located in the indoor unit.
- 2.) Master RC - Master controller sensor
- 3.) Sub RC - When using option BRCSZC Sub controller.
- 4.) Sens 1 - When using option KRCSO1-1
- 5.) Sens 2 - When using option KRCSO1-1

- Only the indoor sensor will be activated (factory set) all other sensors must be activated by the field set codes, once activated sensor selection can be achieved by pressing the SEL SENSOR button on the remote controller.

## Zone restriction

Note 4.

Example: You may only require the use of 4 zones out of the 8 available zones. By applying the Field setting 1b - 3 - 0\_ you can restrict the number of zones you want to operate, for example 4 zones. The remaining unused zones will not function when the zone buttons are pressed. ( 1b - 3 - 04 )

Before setting zone restriction make sure all zones are switched off.

## Fan static Pressure

Note 5.

When a higher airflow is required for example when the pressure inside the ducting is high, use field setting 23-6-02 to increase the airflow.

For models with a capacity index of 180-250 please refer to the installation instructions supplied with the air conditioner.

## Duct Configuration

Note 6.

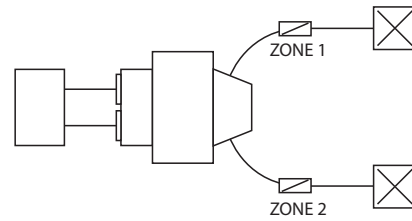
Layout 1 (No Common Zone)

It is recommended to set the field set code to "Keep 1 Zone ON" One zone will remain on at all times when the air conditioning unit is in operation to ensure damage to the ducting system will not occur by over pressurising. (1b - 4 - 01)

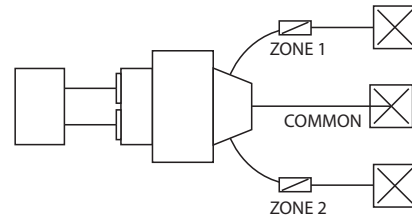
Layout 2 (Common Zone)

You can set "All Zones OFF" You will be able to manually switch all the zones off if required. (1b - 4 - 02)

Layout 1



Layout 2



## DS1 Switch Settings



### DS1 SWITCH

SW1 - ON = Master controller

SW1 - OFF = Sub controller

SW2 - No Function

SW3 - No Function

SW4 - ON = Start Up Delay Timer OFF

SW4 - OFF = Start Up Delay Timer ON

### DS1 SWITCH

SW1 ON (Master controller) – When connecting one remote controller only or when connecting two remote controllers one controller must be selected to Master. (Second controller is optional BRCSZC)

SW1 OFF (Sub controller) - When connecting two remote controllers one controller must be selected to Sub controller. (Second controller is optional BRCSZC) SW2 Must remain in the ON position.

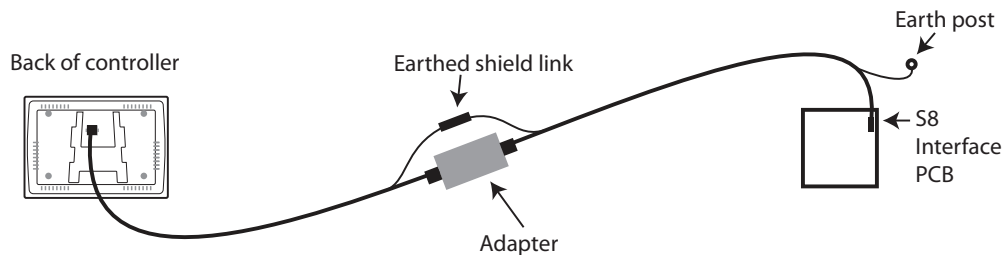
SW3 Must remain in the ON position.

SW4 ON (Start Up Delay Timer OFF)-The indoor fan will start once the unit initialisation time is completed.

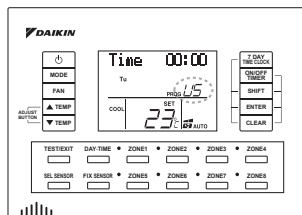
SW4 OFF (Start Up Delay Timer ON)-The indoor fan will not start until at least 60 seconds has passed.

It is advisable when using spring return zone motors to set SW4 OFF this will allow at least 60 second for the zone motor to open before the indoor fan starts.

## How To Connect BRCW902A15 Extension Cable (Optional Accessories)

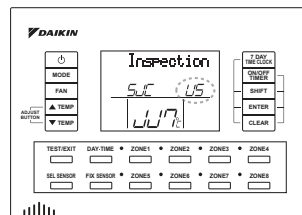


## Fault Mode



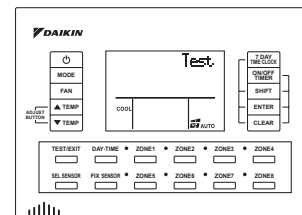
A two-digit code will flash on the LCD screen when a fault occurs. (Brief description of fault codes can be found on Pg. 13.)

## Inspection Mode



The inspection display will appear once the TEST/EXIT button is pressed. The inspection screen will store the last fault code. To clear the fault code press the clear button for 4 seconds or until 00 appears. There are some fault codes that will clear if the power is switched OFF and then back ON again.

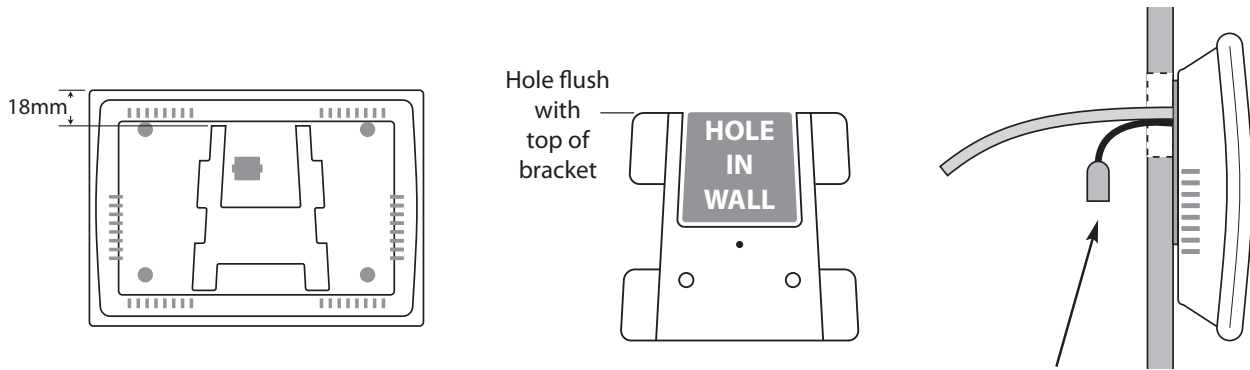
## Test Mode



To enter the test mode press the TEST/EXIT button twice. During the test mode the system will be forced to function according to the mode set. The compressor will be forced to operate for 30 minutes.

Section Code	Comments Code	0	1	2	3	4	5	6	7	8	9	A	H	C	J	E	F
INDOOR	A	Activation of safety device (general)	Faulty PCB Indoor	Fan interlock (manual)	Adnormal drain water level or plug missing	Adnormal heat exchanger (1) temp.	Adnormal heat exchanger (2) temp.	Fan motor overload current lock	Air direction adjust motor lock	AC input over-current	Faulty electronic expansion valve	Heater overheating	Faulty or dirty air cleaner	No load up	Faulty capacity setting	Insufficient water supply	Drain level above limit
	C	Faulty sensor system (general)	Faulty drain water level sensor system	Faulty heat exchanger temp. sensor system (R2T)	Faulty gas pipe temp. sensor system (R3T)	Fan motor overload current, faulty lock sensor system	Faulty heat exchanger temp. sensor system (R2T)	Faulty gas pipe temp. sensor system (R3T)	Fan motor overload over-current lock system	Air direction motor lock, faulty sensor system	Faulty AC input current sensor	Faulty air suction temp. sensor system (R1T)	Faulty air suction temp. sensor system	Faulty or dirty sensor	Faulty humidity sensor system	Faulty temp. sensor (remote controller)	Faulty radiation sensor system
OUTDOOR	E	Activation of safety device (general)	Faulty PCB outdoor		Abnormal high pressure (HPS)	Abnormal low pressure (LPS)	Compressor motor overload	Compressor motor overload current lock	Outdoor fan over-current lock	AC input over-current	Faulty electronic expansion valve		Pump over-current lock	Adnormal water temp.	Activation of field added safety device	Faulty drain water level system	Faulty heat storage unit
	H	Faulty sensor system (general)	Faulty air temp. sensor system	Faulty power supply sensor system	Faulty high pressure switch	Faulty low pressure switch	Compressor motor, faulty overload sensor system	Compressor motor over-current lock	Abnormal outdoor fan motor signal	Faulty AC input power sensor system	Faulty outdoor air temp. sensor system	Faulty discharge air temp. sensor system	Faulty over-current lock	Faulty hot water sensor system		Faulty drain water level sensor system	Heat storage unit alarm
	F	Activation of common safety device for system No. 1 & No. 2	Activation of safety device for system No. 1	Activation of safety device for system No. 2	Faulty discharge pipe temp.	Faulty discharge pipe pressure equivalent saturation temp. sensor system	Faulty low pressure equivalent saturation temp. sensor system	Refrigerant overcharge				Adnormal high oil temp.	Adnormal discharge pressure	Adnormal high oil temp.	Adnormal suction pressure	Adnormal oil pressure	Adnormal surface oil level
	J	Faulty refrigerant temp. sensor system	Faulty pressure sensor system (general)	Faulty current sensor system	Faulty discharge pipe temp. sensor system	Faulty low pressure equivalent saturation temp. sensor system	Faulty low pressure equivalent saturation temp. sensor system	Faulty suction pipe temp. sensor system	Faulty heat exchanger temp. sensor system (R4T)	Faulty receiver outlet liquid pipe sensor (R7T)	Faulty liquid pipe temp. sensor system	Faulty subcooler heat exchanger gas pipe sensor (R5T)	Faulty discharge pressure sensor system	Faulty oil temp. sensor system	Faulty suction pressure sensor system	Faulty oil pressure sensor system	Faulty surface oil level sensor system
SYSTEM	L	Faulty INV system	Faulty PCB		Adnormal temp. rise inside control box	Adnormal temp. rise of radiation fin (power transistor)	DC output over-current instantaneous	AC output over-current instantaneous	Air conditioner (multi) general input over-current	Inverter current abnormal	Inverter start up error	Faulty power transistor		Faulty transmission between INV and control PCB			
	P	Gas shortage (ice thermal storage equipment)	High voltage of capacitor in inverter circuit or power imbalance		Faulty temp. rise sensor inside control box	Faulty radiation fin (power transistor) temp. rise	Faulty DC current sensor system	Faulty AC or DC output current sensor system	Air conditioner (multi) general input over-current							Faulty capacity setting	
	U	Short of gas	Reversed phase connection	Faulty power supply voltage	Faulty transmission (general) or check operation is not complete	Failure of transmission between indoor and outdoor units	Faulty transmission between indoor unit and remote controller	Faulty transmission between indoor units (main & sub)	Faulty transmission between outdoor units	Faulty transmission to/from remote controllers (main & sub)	Faulty transmission between indoor & outdoor in the same system	Improper combination of indoor & outdoor, indoor & remote cont.	Indoor/outdoor unit address not entered	Faulty central control address setting (Address duplications)	Faulty transmission to/from peripheral equipment (air control)	Faulty transmission between indoor unit and central controller	Incorrect wiring/piping (wiring/piping connection error)

# CONTROLLER MOUNTING BRACKET



Installed controller height 18mm above top of mounting bracket.

Do not cut hole above height of bracket.

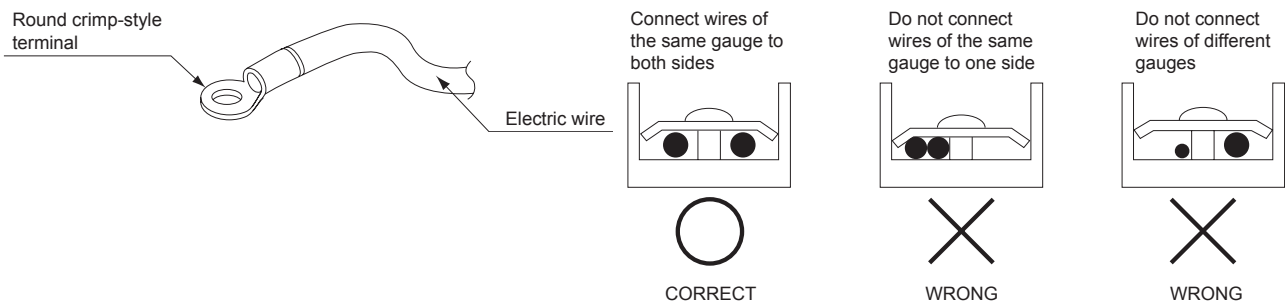
Earth shield spade receptacle is used only when extension cable (BRCW902A15) is installed. When BRCW902A15 is not used tuck insulated spade receptacle in wall cavity

# ELECTRIC WIRING WORK

## PRECAUTIONS

### Precaution for wiring on site

- Do not clamp remote controller cords together with wires connecting the units together. Doing so may cause malfunction.
- Remote controller cords and wires connecting the units should be located at least 50 mm from other electric wires. Failure to follow this guideline may result in malfunction due to electrical noise. Read the notes mentioned below when wiring to the power supply terminal block. Precautions to be taken for power supply wiring. (Use a round crimp-style terminal for connection to the power supply terminal block. In case it cannot be used due to unavoidable reasons, be sure to observe the following instructions.)
- Do not connect wires of different gauge to the same power supply terminal. (Looseness in the connection may cause overheating.)
- When connecting wires of the same gauge, connect them according to the figure.
- Make certain that prescribed wires are used, carry out complete connections, and secure the wires so that outside forces are not applied to the terminals.

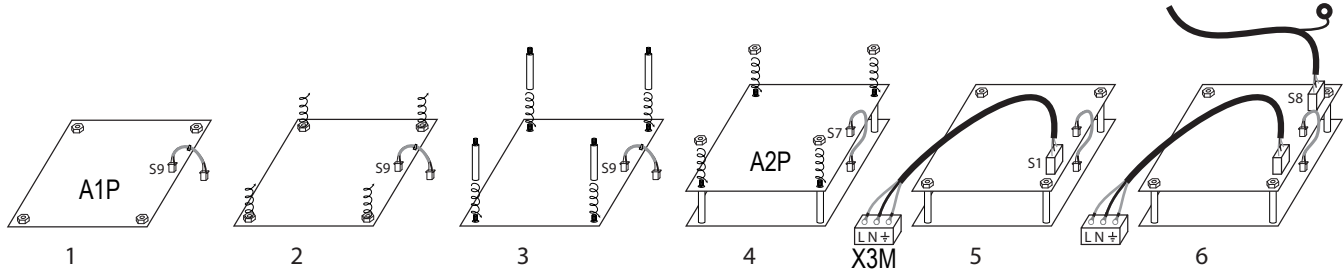
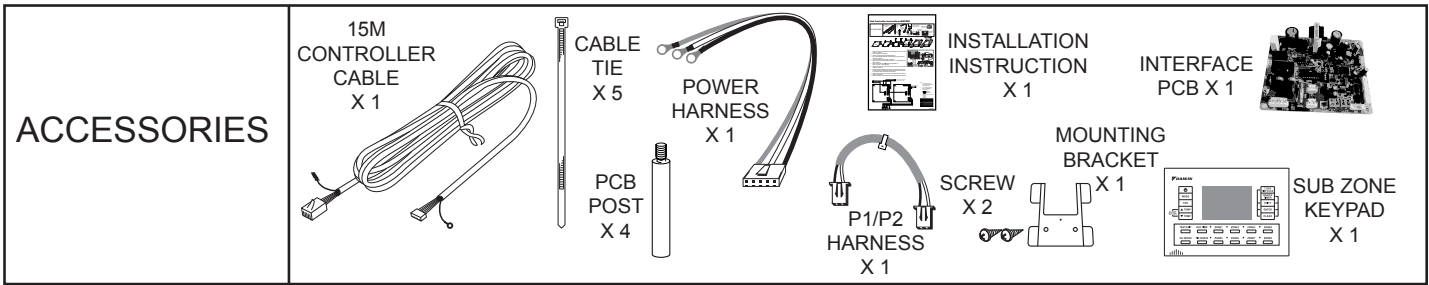


## ⚠ CAUTION

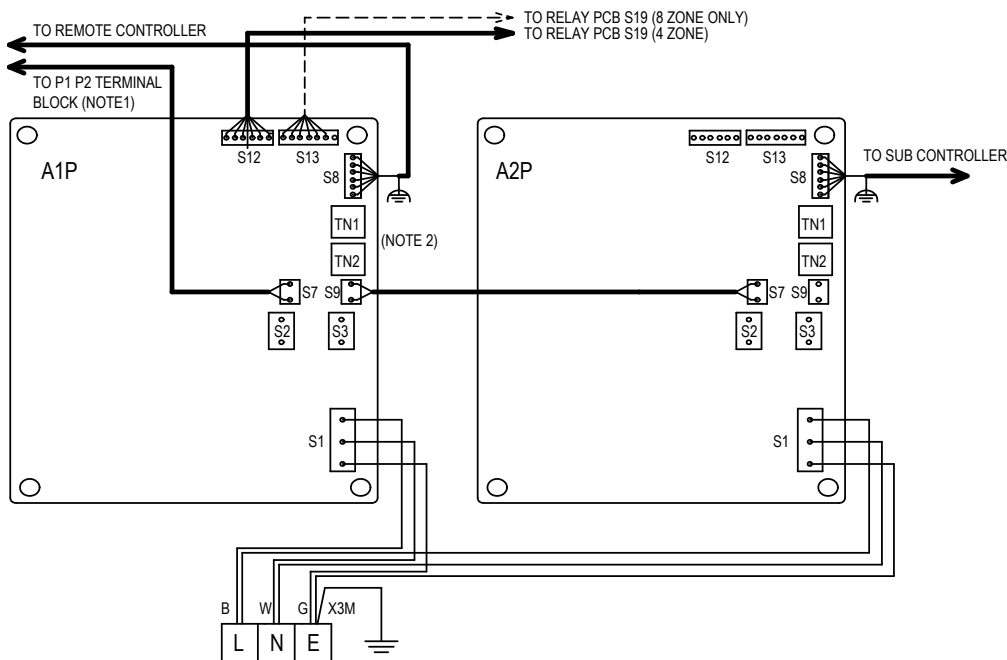
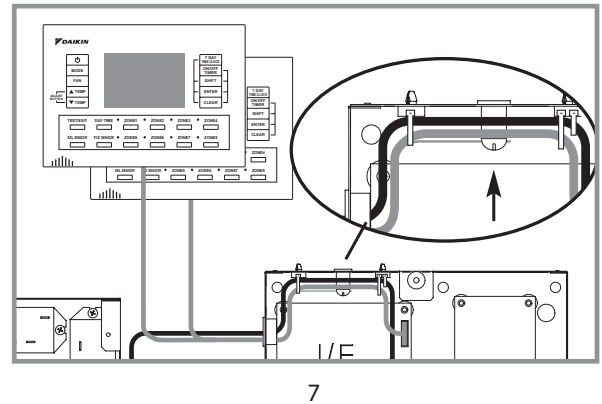
- After connecting the wires, be sure that no pressure is applied to the wire connections by using cable ties (field supplied) and securing them to the anchor points. Also, when wiring, make sure the cover of the terminal box fits snugly by arranging the wires neatly and attaching the terminal box cover firmly. When attaching the terminal box cover, make sure no wires get caught under the edges.
- Make sure the remote control cord, the wiring between the electrical boxes, and other electrical wiring do not pass through the same locations outside the unit, separating them by at least 50 mm, otherwise electrical noise (external static) could cause interference to the control system.
- All field supplied parts and materials and electric works must conform to local codes. (ie. AS / NZS 3000)
- Use copper wire only.
- For electric wiring work, refer also to the "WIRING DIAGRAM" label attached to the electrical box cover.
- For remote controller wiring details, refer to this installation manual.
- All wiring must be performed by an authorised electrician in accordance with local codes. (ie. AS / NZS 3000)
- A circuit breaker capable of shutting down power supply to the entire system must be installed.
- Ensure that the air conditioner and zone controller box are effectively earthed.



# Sub Controller Instructions BRCSZC



1. Insert one end of P1/P2 harness into socket S9 located on the lower interface PCB (A1P). Diagram 1.
2. Loosen (4) plastic nuts. Diagram 2.
3. Screw in (4) PCB post and gently tighten. Diagram 3
4. Install upper Interface PCB (A2P) in the same direction as lower Interface PCB (A1P). Diagram 4.
5. Add (4) plastic nuts and gently tighten. Diagram 4.
6. Plug the loose end of P1/P2 harness into socket S7 of upper Interface PCB (A2P). Diagram 4.
7. Wire Power harness into LN± terminal block X3M (Black- L) (White -N) (Green - Earth). Diagram 5.
8. Plug the other end of the power harness into S1 socket of the upper Interface PCB (A2P). Diagram 5.
9. Pass the Remote controller cable through the 2 open cable ties. If the cable ties have already been tightened cut the cable ties and use the spare cable ties supplied to secure the controller leads. Diagram 7.
10. Plug the remote controller cable connector into socket S8 of upper Interface PCB (A2P). Diagram 6.
11. Secure the earth shield to the earth shield post. Diagram 7.



- NOTE:
1. P1 P2 TERMINAL BLOCK LOCATED IN THE ELECTRICAL BOX OF INDOOR UNIT.
  2. TN1, TN2 ONLY USE DAIKIN REMOTE TEMPERATURE SENSOR KRCSO1-1
  3. : TERMINAL  
 : CONNECTOR
  4. SYMBOLS SHOW AS FOLLOWS  
B: BLACK  
W: WHITE  
G: GREEN

A1P	INTERFACE PRINTED CIRCUIT BOARD
A2P	INTERFACE PRINTED CIRCUIT BOARD
TN1	REMOTE SENSORS 1
TN2	REMOTE SENSORS 2
CONNECTOR	
S1	230-240V
S9-S7	A1P A2P COMMUNICATION
S7	A1P INDOOR COMMUNICATION
S8	REMOTE CONTROLLER

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