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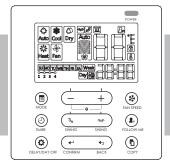
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Part Number: B063821 December 2016 EQPL38586755 Issue A



Wired Programmable Control Operation Manual Reverse Cycle Air Conditioner



To Suit Models

Ducted	Cassette	
DNLR Series	CIN Series	

This appliance shall be installed in accordance with:

- Manufacturer's Installation Instructions
- Current AS/NZS 3000
- Local Regulations and Municipal Building Codes including local OH&S requirements
 This appliance must be installed, maintained and removed by an Authorised Person.
 For continued safety of this appliance it must be installed and maintained
 accordance with the manufacturer's instructions.



N1037

- This manual provides detailed descriptions of precautions that should be brought to your attention during operation.
- In order to ensure correct service of this wired control, please read this manual carefully before using.
- For convenience and for future reference, please keep this manual in a safe place after reading it.
- Due to our policy of continuous improvement, product details and specifications are subject to change without notice.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

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1. SAFETY PRECAUTIONS

- Read the safety precautions carefully before installing the unit.
- Stated below are important safety issues that must be obeyed.

WARNIN	G Means improper handling may lead to personal death or severe injury
CAUTIC	Means improper handling may lead to personal injury or property loss



WARNING

Only suitably trained and qualified personnel should install this equipment. Installation by other non-qualified persons will result in a poor installation, and possibly electric malfunction, shock, fire or personal injury. Install this product in strict accordance with this manual. Maintenance, repair or service must be performed by suitably trained and qualified personnel, in accordance with the maintenance instructions improper service or repair may lead to electric shock or fire.

|--|--|

- ① Do not install this product adjacent to areas susceptible to flammable gas leaks. If flammable gases leak near the control, it may cause a fire.
- ② Do not operate with wet hands or let water enter the control. Otherwise, electric shock may occur.
- 3 The wiring should be suitably sized for the control current. Incorrectly sized wiring may overheat and cause a fire.
- The specified cables shall be applied in the wiring. Do not allow external forces to pull on the terminals. Damage to the control and overheating may cause a fire.

2. INSTALLATION ACCESSORIES

Select the appropriate installation location

Don't install in an area contaminated with heavy oils, vapors or gases that may cause the control to deform, this may lead to a system malfunction.

Preparation before installation

1. Please confirm that the following parts have been supplied.

No.	Name	Qty.	Remarks
1	Wired programmable control	1	
2	Lithium battery	1	
3	Cruciform slot screw M4x25	2	Accessories used when installing the
4	Plastic bolt	2	controller inside an electrical cabinet
5	Installation & owner's manual	1	
6	Wiring loom	1	Interconnecting wiring

2. Additional field supplied requirements.

No.	Name	Qty.	Remarks	
1	Electrical cabinet	1	Universal electrical cabinet's specification pre-emben into wall (if required)	
2	Wire configured tube (insulated sheath)	1	Pre-emben into wall, longest length should not exceed 15m	
3	Phillips screwdriver	1	To mount the control	
4	Slotted screwdriver	1	To dismantle the control assembly	

2. INSTALLATION ACCESSORIES

Wired programmable control installation precautions.

- 1. This manual describes the installation method of the control. Please refer to the wiring diagram in this installation manual to wire the control to the indoor unit.
- 2. The wired control works in a low voltage loop circuit. Do not connect the control directly to mains voltage (240V), or to three phase power (415V) as it will damage the control. Ensure that the control wiring (low voltage loop) and any mains cables are adequately separated.
- 3. A 6 metre wired control wiring loom is provided with plugs with the wired control.
- 4. The wired control wiring between the control and the indoor unit can be made longer than the 6 metres provided, but cannot be more than 20 metres in length.
- 5. The shielded communication wiring loom must be properly grounded.

3. INSTALLATION METHOD

Wired remote controller dimensions

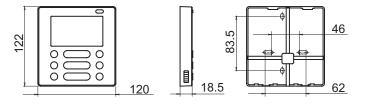


Fig 3-1

Wiring Layout

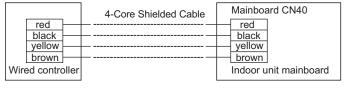
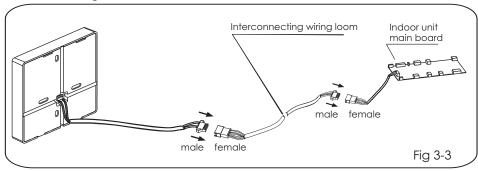


Fig 3-2

3. INSTALLATION METHOD

Installation diagram

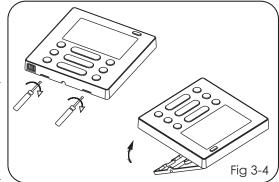


- 1. Connect the female wiring connector from the indoor unit main board with the male connector of the interconnecting wiring loom. (See Fig.3-3)
- 2. Connect the other end of the interconnecting wiring loom to the male wiring connector from the wired control. (See Fig.3-3)
- 3. Remove upper part of wire controller
- Insert a slot screwdriver into the slots in the lower part of the wire controller (2 places), and remove the upper part of the wire controller. (Fig.3-4)

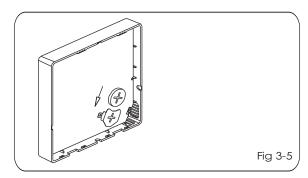


NOTICE

The PCB is mounted in the upper part of the wire controller. Be careful not to damage the board with the screwdriver



3. INSTALLATION METHOD



4. Install the battery in the rear of the control, make sure the positive side of the battery is correctly aligned on the positive side of the battery connection. (See Fig.3-5)



NOTE

KEEP BATTERIES OUT OF REACH OF CHILDREN

Swallowing button batteries may lead to serious injury in as little as 2 hours or death, due to chemical burns and potential perforation of the oesophagus.

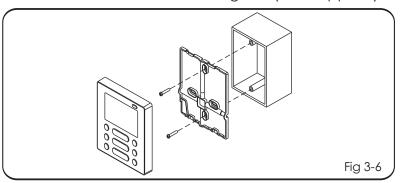
If you suspect your child has swallowed or inserted a button battery immediately call the 24hr Poisons Information Centre on 13 11 26 for fast, expert advice.

Regularly examine the remote controller and make sure the battery compartment is completely secured.

Dispose of used button batteries immediately and safely.

3. INSTALLATION METHOD

Optional Control extension mounting box (field supplied)



5. Fix the bottom cover to the electric cabinet with the slotted head screws.

Align the bottom cover so it is level on the wall surface, then reinstall the bottom cover of the wall control. (See fig 3-6)



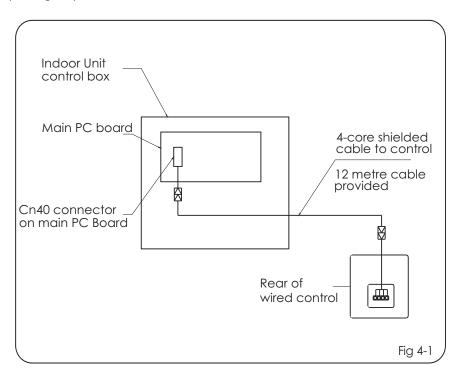
NOTE

Over tightening the mounting screws will damage the control and LCD screen. When installing, please ensure that the screws and wired control are at the same height without protruding and deforming the control LCD screen. When installing, please ensure that there is a small loop of excess cable available to facilitate removal of the control for maintenance service or repair.

Position onto a flat surface, ensuring not to distort the back plate of the wire controller by over tightening the mounting screws.

4. WIRED PROGRAMMABLE CONTROL WIRING DIAGRAM

1. Wiring diagram of wired control, showing connection with indoor unit (See fig 4-1)



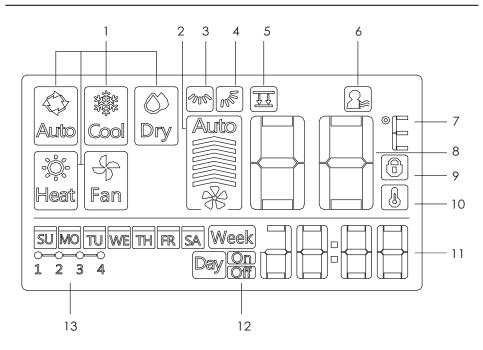
5. SPECIFICATION

Operational Limits

Input voltage	DC 12V
Temperature Range	-5 ~ 43°C
Humidity Range	RH 40% ~ RH 90%

The pictures in this manual are diagrammatic for explanation purposes only. The wired control may appear slightly different to that as shown.

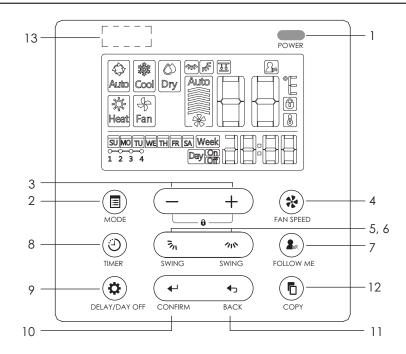
6. LCD DISPLAY LAYOUT



- 1 Operating mode indicator
- 2 Fan speed indicator
- 3 Left-right swing indicator
- 4 Vertical swing indicator
- 5 Cassette Fascia indicator
- 6 Follow me indicator
- 7 Temperature C°/F° indicator

- 8 Temperature display
- 9 Lock indicator
- 10 Room temperature indicator
- 11 Clock display
- 12 On/Off timer
- 13 Timer display

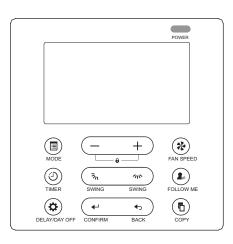
7. BUTTON DESCRIPTION



- 1 POWER BUTTON
- 2 MODE
- 3 Adjustment up and down
- 4 FAN SPEED
- 5 VERTICAL SWING (air direction)
- 6 HORIZONTAL SWING (air direction)
- 7 FOLLOW ME

- 8 TIMER
- 9 DELAY/DAY OFF
- 10 CONFIRM
- 11 BACK
- 12 COPY
- 13 IR REMOTE RECEIVER (where fitted)

8. FEATURES & FUNCTIONS



Features:

LCD display.

Error code display:

4-way wire layout design, no raised part at backside, more convenient to place the wires and install the device.

Room temperature display.

Weekly Timer.

Functions:

Mode: choose Auto-Cool-Dry-Heat] -Fan
Fan speed: Auto/Low/Med/High speed
UP-DOWN swing & LEFT-RIGHT swing (where
fitted)
Timer ON/OFF
Temp setting
Weekly timer
Follow Me
Child Lock
LCD display
Clock

9. PREPARATORY OPERATION

Set the current day and time

TIMER TIMER

Press the TIMER button for 3 seconds or more. The timer display will flash.

Press the "+" or "-" adjust buttons to set the date.

The selected date will flash.

The selected date will flash.

After setting the day and time, press the TIMER button to exit. The control will exit if no buttons are pressed within 10 seconds.

Press the "+" or "-" adjust buttons to set the current time.

Press repeatedly to adjust the time in 1 minute increments.

Press and hold to adjust the time rapidly.

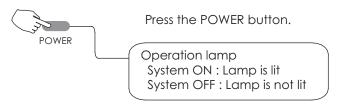


ex.Monday AM 11:20

The setting is complete after pressing TIMER button or if no buttons are pressed within 10 seconds.

10. OPERATION

To start/stop operation

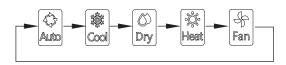


To set the operation mode

Operation mode setting



Press the MODE button to set the operation mode.



Room temperature setting



Press the " + "or " - " adjust buttons to set the room temperature :

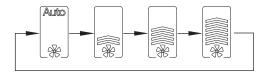
Indoor Setting Temperature Range: 17~30°C

10. OPERATION

Fan speed setting



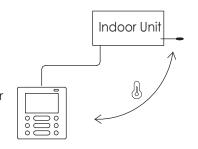
Press the FAN SPEED button to set the fan speed. (This function is unavailable in AUTO or DRY modes)



Room temperature sensor selection



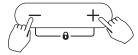
Press the FOLLOW ME button to select whether the room temperature is detected up at the indoor unit or at the wired control position.



When the Follow me function indication is lit, the room temperature is being detected at the wired control.

10. OPERATION

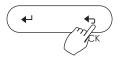
Child lock function



Press the "+" and "-" adjust buttons simultaneously for 3 seconds to activate the child lock function. This will lock all buttons on the wired control. Press the same buttons again for 3 seconds to deactivate the child lock.

When the child lock function is activated, the [indicator appears.

Keypad tone setting





Press the "BACK" and "COPY" button simultaneously for 3 seconds to turn off the keypad tone.

Press the same buttons again for 3 seconds to turn on the keypad tone.

°C & °F temperature scale selection



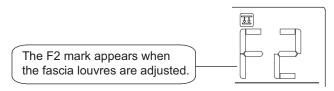
Press and hold \overline{a}_n and a_n buttons together for 3 seconds will alternate the temperature display between the °C and °F

10. OPERATION

Cassette Fascia function (where fitted)



When the unit is off, Press and hold the MODE button to activate the cassette fascia function. The $\overline{\square}$ mark will flash.



Press the "+" or "-" buttons to control the lift and drop of the louvres. Press the "+" or "-" buttons again to stop.

Left-Right swing (applicable products)



Press the no button to start Left-Right swing function. Press the no button again to stop.

When the Left-Right swing function is activated, the indicator appears.

10. OPERATION

Up-Down airflow direction and swing (applicable products)

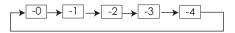


- 1. For every press of the SWING button, the louver changes in 6 degree increments.
- 2.Press and hold the button for 2 seconds to turn on the automatic SWING mode. Press the button again to stop the automatic SWING.

 When the automatic SWING function is activated, the indicator appears.
- Please refer to the following instructions for products where the louvers can be operated individually.
- 1.Press the $\[\overline{}_{n} \]$ button to activate the Up-Down louver function. The $\[\overline{}_{n} \]$ indicator will flash.



2.Pressing the "+" or "-" adjust buttons to select the adjustment of the four louvers. Each time you push the button, the wired control selects the louver in the following sequence. (The -0 icon denotes the four louvers move simultaneously.)



3. Use the \bar{z}_n button to adjust the Up-Down direction of the selected louver.

11. TIMER FUNCTIONS

Week

WEEKLY timer

Use this timer function to set operating times for each day of the week.

DayOr

On timer

Use this timer function to start the system. The timer operates and the system starts after the set time has expired.

Day Offi

Off timer

Use this timer function to stop the system. The timer operates and the system stops after the set time has expired.

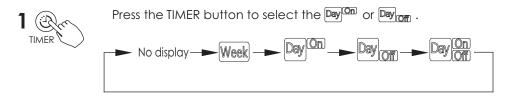
Day On Off

On and Off timer

Use this timer function to start and stop the system. The timer operates, and the system starts and stops after the set times have expired.

11. TIMER FUNCTIONS

To set the On or Off TIMER





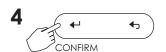
Press the CONFIRM button, the Clock display is flashing.





Example: Off timer set at PM 6:00

Press the " + " or " - " adjust buttons to set the time. After the required time is set and confirmed, the timer is enabled.



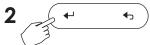
Press the CONFIRM button again to complete the setting.

11. TIMER FUNCTIONS

To set the On and Off TIMER

TIMER TIMER

Press the TIMER button to select the of



 $^{
m)}$ Press the CONFIRM button, the Clock display is flashing.





Press the " + " or " - " adjust buttons to set the timer On time. Press the CONFIRM button to complete the setting.

4



Press the " + " or " - " adjust buttons to set the timer Off time.





Press the CONFIRM button to complete the setting.

12. WEEKLY TIMER

1 Weekly timer setting





Press the TIMER button to select the $\boxed{\text{Week}}$, press the CONFIRM button to confirm.

2 Day of the week setting





Press the " + " or " - " adjust buttons to select the day of the week. Press the CONFIRM button to confirm the setting.



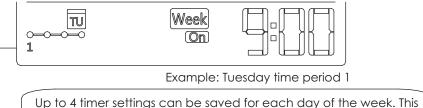
3 ON timer setting of timer setting 1





Press the " + " or " - " adjust buttons to set the timer On time. Press the CONFIRM button to confirm the setting.

12. WEEKLY TIMER



Up to 4 timer settings can be saved for each day of the week. This allows the user to configure the week timer to suit their lifestyle.

4 Off timer setting of timer period 1



Press the " + " or " - " adjust buttons to set the timer Off time. Press the Confirm button to confirm the setting.



Example: Tuesday time period 1

- 5 Different timer settings can be set by repeating step 3 to 4.
- 6 Other days in the week can be set by repeating step 2 to 5.

NOTE: The weekly timer setting can be returned to the previous step by pressing the BACK button.

The time of timer setting can be deleted by pressing the DAY OFF button. The current setting will be restored and the system will exit the weekly timer setting automatically if there is no operation for 30 seconds.

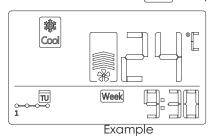
12. WEEKLY TIMER

WEEKLY timer operation

To activate the WEEKLY TIMER operation



Press the TIMER button while Week is displayed on the screen.



To deactivate the WEEKLY TIMER operation



Press the TIMER button, the Week indicator will disappear.

• To turn off the system during weekly timer operation



1. Press the POWER button once quickly, and the system will turn off temporarily. The system will turn on automatically at the next set timer On time.



For example, if the POWER button is pressed once quickly at 10:00, the system will turn on again at the next set time of 14:00.

2. Press the POWER button for 2 seconds to turn the system off completely, this overrides the weekly timer function.

12. WEEKLY TIMER

To set the DAY OFF (for a holiday)



In weekly timer mode, press the CONFIRM



Press the " + " or " - " adjust buttons to select the day of the week.



Press the DAY OFF button to set the DAY OFF.



Example: The DAY OFF is set for Wednesday

The DAY OFF can be selected for other days by repeating steps 2 and 3.



Press the BACK button to go back to the weekly timer function.

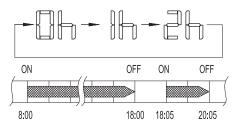
To cancel: Follow the same procedures as those for setup Note: The DAY OFF setting is cancelled automatically after the set day is passed.

12. WEEKLY TIMER

DELAY function



In the weekly timer function, press the DELAY button once, the display will read "[]—". Press this button twice, the display will read "[]—". Wait. 3 seconds to confirm. This means the unit will override the settings for 1 hour. Press the delay button 3 times, the display will read "[]—". Wait 3 seconds to confirm, the unit will now override for 2 hours.



Example: Press the DELAY button to select " at 18:05, and the unit will delay turning off for 2 hours, until 20:05.

Copy the setting from one day into another other day.

Settings made once can be copied into another day of the week. All of the settings of the selected day of the week will be copied. The copy function simplifies the programming functions and saves setting time.



In the weekly timer function, press the CONFIRM button.



Press the " + " or " - " adjust buttons to select the preset day to copy from.

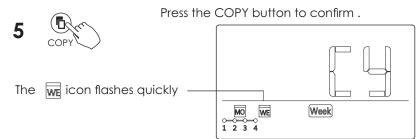
12. WEEKLY TIMER

3 COPY

Press the COPY button, the letter "CY" will be displayed on the screen.



Press the " + " or " - " adjust buttons to select the day to copy to.



Example: Copy the setting of Monday to Wednesday

- 6 Other days can be copied by repeating step 4 and 5.
- 7 CONFIRM

Press the Confirm button to confirm the settings.



Press the Back button to go back to the weekly timer function.

13. FAULT CODES

If the system does not operate correctly, the following faults may be evident. Investigate the system fault in accordance to the following fault codes.

NO.	FAULT CODE DESCRIPTION	FAULT CODE DISPLAYED
1	Communication error between wired control and indoor unit	FO
2	Power supply phase error	EO
3	Communication error between indoor unit and outdoor unit	E1
4	Sensor T1 fault	E2
5	Sensor T2A fault	E3
6	Sensor T2B fault	E4
7	Sensors T3/T4 fault, or compressor discharge sensor fault	E5
8	System anti-freeze protection	E6
9	EEPROM (electronic control) malfunction	E7

13. FAULT CODES

NO.	FAULT CODE DESCRIPTION	FAULT CODE DISPLAYED
10	Fan speed error	E8
11	Communication error between the main and sub board (display)	E9
12	Compressor current protection (four times)	EA
13	IPM malfunction	ЕВ
14	Fresh Air malfunction	EC
15	Outdoor unit protection fault	ED
16	Water-level alarm and/or other malfunction	EE
17	Other malfunction	EF
18	Master control lockout	СР
19	Cassette Fascia malfunction	F1