TABLE OF CONTENTS

INTRODUCTION ........................................... 1
HANDLING THE REMOTE CONTROLLER ............. 2
FUNCTION BUTTONS ...................................... 3
ACCESSING THE SERVICE FUNCTIONS ............... 4
REMOTE CONTROLLER SERVICE FUNCTIONS ....... 5
  Auto−Start Function (F1) ............................. 5
  Heating Temperature Compensation (F2) ............ 5
  Anti−Cold Air Function (F3) .......................... 5
  Indoor Fan Motor Speed Control after Set Temperature is Reached (F4) ......................... 6
  Louver Angle Memory Function (F5) .................. 6
  Heating Only or Cooling and Heating Setting (F6) .... 7
  Cooling Temperature Compensation (F7) ............ 7
  Refrigerant Leakage Detection (F8) ................... 7
  Cleaning Filter Reminder (F9) ........................ 7
  Filter Replacement Reminder (E1) ..................... 7
  Lowest Temperature Setting (E2) ..................... 8
  Highest Temperature Setting (E3) ..................... 8
  Special Anti−Cold Air Function Setting (E4) .......... 8
  Priority Setting of Heating or Cooling (only on Multi−Zone Systems) (E5) ...................... 8
  Network Address Setting (E6) ......................... 8
  Capacity Code Selection (E7) ........................ 8
  Twins Setting (E8) .................................... 8
  Static Pressure Setting (E9) ........................... 8
DEFAULT VALUES OF INDOOR UNITS ............... 9
POINT CHECK FUNCTION ............................ 9

INTRODUCTION
This service manual provides the necessary information to use the service functions on the RG57 wireless remote controller. Use the Table of Contents to locate a desired topic.
HANDLING THE REMOTE CONTROLLER

Remote Controller Location
Keep the remote controller within a distance where its signals can reach the indoor unit’s receiver (not to exceed a distance of 26 ft. (8m)).

Replacing Batteries
The remote controller uses two alkaline dry batteries (AAA).

1. Slide the battery compartment cover off, according to the arrow direction, then replace the old batteries with new batteries.
2. Insert the new batteries. Ensure the batteries are installed correctly, based on their (+) and (−) polarities.
3. Slide the battery compartment cover back into position.

NOTE:
- Do not mix old and new batteries or batteries of different types.
- Do not leave the batteries in the remote controller if the remote is not going to be used for 2 or 3 months.
- Dispose old batteries in the appropriate recycle bins.

Remote Controller Specification

<table>
<thead>
<tr>
<th>Table 1—Remote Controller Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
</tr>
<tr>
<td>Rated Voltage</td>
</tr>
<tr>
<td>Signal Receiving Range</td>
</tr>
<tr>
<td>Environment</td>
</tr>
</tbody>
</table>
FUNCTION BUTTONS

Before you use your new system, familiarize yourself with the remote controller. The following is a brief introduction of the remote controller.

**FP**
- Activate/Disable freeze protection function

**ON/OFF**
- Turns the unit on or off

**MODE**
- Scrolls through operation modes as follows:
  - AUTO → COOL → DRY → HEAT → FAN

**FAN/SLC**
- Selects fan speeds in the following order:
  - AUTO → LOW → MED → HIGH
  - Hold down this button for 2 seconds to activate the Silence function.

**SLEEP**
- Saves energy during sleeping hours

**TURBO**
- Enables unit to reach preset temperature in shortest possible time

**SELF CLEAN**
- Starts and stops self clean feature

---

If you are sensitive to light when you go to sleep, you can press the LED button to turn off the LED display on the indoor unit. Press the button again to turn it back on.

**NOTE:** Remote Controller also available through RCD P/N 17317000A34063. Remote Holder P/N 12117000000318.
ACCESSING THE SERVICE FUNCTIONS

Caution: Read and understand the function changes you wish to make in advance. The remote will not read the parameters in the unit.

1. Before using the service functions of the remote, turn OFF the indoor unit with the remote.
2. Turn off the power to the outdoor unit for 2 minutes. Turn the power back on.
3. Remove the batteries from the remote and wait for the remote screen to clear.
4. Within 30 seconds of replacing the batteries, simultaneously press MODE and TIMER ON for five (5) seconds.
5. You are now in the SERVICE FUNCTION mode – and the remote display reads F1.
6. Use TEMP UP/DOWN to find and display the parameter you want to change.
7. When the parameter you want to change is displayed, press MODE (parameters displayed after pressing MODE are default values only, NOT the values stored in the controller).
8. To change the parameter use the TEMP UP/DOWN until the value you want is displayed.
9. Press TIMER ON to confirm the new setting value and transmit it to the Indoor Unit. “LL” will briefly be displayed on the indoor unit.
10. Repeat steps 6 thru 9 for any other parameter you are changing
11. When finished with ALL changes, simultaneously press SLEEP and DIRECT for two (2) seconds until display beeps.
12. Remove batteries from the remote and wait for one (1) minute before replacing them. Wait another thirty (30) seconds after remote display returns to set point value.
13. The remote is now restored to normal function and you may operate the system – you do NOT have to cycle power again.

Fig. 5 – Remote Controller

IMPORTANT: The remote controller is enabled within 10 minutes after the indoor unit is powered on, and the indoor unit must be turned off.
REMOTE CONTROLLER SERVICE
FUNCTIONS
NOTE: The indoor unit beeps for 2 seconds indicating the function has been successfully set.

Auto–Start Function (F1)
In case of a sudden power failure, the module memorizes the setting conditions before the power failure. The unit resumes the previous operation setting automatically after 3 minutes when the power returns. In order to enable/disable this function:

1. Press ▲ and ▼ to select “F1”.

   Fig. 12 – Select F1

2. Press MODE. Next, press ▲ and ▼ to select “ON” or “OFF”.

   Fig. 13 – Select On or Off

3. Press TIMER ON and the Auto–start function setting is complete.

   Fig. 14 – TIMER ON

Heating Temperature Compensation (F2)
Defines the adjustment for the thermal stratification in the room and how the indoor unit is sensing the space. To adjust the temperature compensation, in Celsius only:

NOTE: The temperature compensation in Celsius regardless of the units used.

1. Press ▲ and ▼ to select “F2”.

   Fig. 15 – Select F2

2. Press MODE. Next, press ▲ and ▼ to select the parameter (range: −6°C ~ 6°C).

   Fig. 16 – Select the parameter

3. Press TIMER ON to confirm.

   Fig. 17 – Timer On

NOTE: The recommended setting is 0°C. The adjustment should not be more than 2°C.

Anti–Cold Air Function (F3)
A) Intelligent Anti–Cold Air Function
NOTE: The intelligent anti–cold air parameter changes with the room temperature. Once the room temperature rises, the anti–cold air temperature rises as well, which is designed to provide the user with increased comfort. After the room temperature decreases, the anti–cold temperature decreases as well, which is designed to improve fan speed and result in a faster heating operation.

NOTE: No setting adjustment recommended.

1. Press ▲ and ▼ to select “F3”.

   Fig. 18 – Select F3


   Fig. 19 – Select 1

3. Press TIMER OFF to adjust the parameter. The parameter continues to flash. Next, press ▲ and ▼ to adjust the parameter (range: 63°F (17°C) ~ 70°F(21°C)).

   Fig. 20 – TIMER OFF

4. Press TIMER ON to confirm.

   Fig. 21 – TIMER ON
B) General Anti−Cold Air Function Setting (Cold Blow Prevention Function)

The general anti−cold air parameter is set regardless of the room temperature.

NOTE: No setting adjustment recommended.

1. Press ▲ and ▼ to select “F3”.

Fig. 22 – Select F3

2. Press MODE. Press FAN to select the parameter. Next, press ▲ and ▼ to select “2”.

Fig. 23 – Select 2

3. Press TIMER OFF to adjust the parameter, which continues to flash. Next, press ▲ and ▼ to adjust the parameter (range: 46°F(8°C) ~ 82°F(28°C)).

Fig. 24 – Adjust the parameter

4. Press TIMER ON to confirm.

Fig. 25 – TIMER ON

Indoor Fan Motor Speed Control after Set Temperature is Reached (F4)

1. Press ▲ and ▼ to select “F4”.

Fig. 26 – Select F4

2. Press MODE. Next, press ▲ and ▼ to select “1”, “2”, “3”, or “4”.

Fig. 27 – Select a number

3. Press TIMER ON to confirm.

Fig. 28 – TIMER ON

Louver Angle Memory Function (F5)

1. Press ▲ and ▼ to select “F5”.

Fig. 29 – Select F5

2. Press MODE. Next, press ▲ and ▼ to select “1”, “2”, or “3”.

Fig. 30 – Select a number

3. Press TIMER ON to confirm.

Fig. 31 – TIMER ON
Heating Only or Cooling and Heating Setting (F6)

1. Press ▲ and ▼ to select “F6”.

Fig. 32 – Select F6

2. Press MODE. Next, press ▲ and ▼ to select “HH” or “CH” (HH: Heating only − CH: Cooling and Heating).

Fig. 33 – Select HH or CH

3. Press TIMER ON to confirm.

Fig. 34 – TIMER ON

Cooling Temperature Compensation (F7)

Defines the adjustment for the thermal stratification in the room and how the indoor unit is sensing the space. To adjust the temperature compensation, in Celsius only:

NOTE: Temperature compensation in Celsius regardless of the units used.

1. Press ▲ and ▼ to select “F7”.

Fig. 35 – Select F7

2. Press MODE. Next, press ▲ and ▼ to select the parameter (range: −2°C ~ +2°C).

3. Press TIMER ON to confirm.

Fig. 36 – TIMER ON

Refrigerant Leakage Detection (F8)

1. Press ▲ and ▼ to select “F8”.

Fig. 37 – Select F8

2. Press MODE. Next, press ▲ and ▼ to select “ON” or “OFF”.

3. Press TIMER ON to confirm.

Fig. 38 – TIMER ON

Cleaning Filter Reminder (F9)

1. Press ▲ and ▼ to select “F9”.

Fig. 39 – Select F9

2. Press MODE. Next, press ▲ and ▼ to select “ON” or “OFF”.

3. Press TIMER ON to confirm.

Fig. 40 – TIMER ON

Filter Replacement Reminder (E1)

1. Press ▲ and ▼ to select “E1”.

Fig. 41 – Select E1

2. Press MODE. Next, press ▲ and ▼ to select “ON” or “OFF”.

3. Press TIMER ON to confirm.

Fig. 42 – TIMER ON
Lowest Temperature Setting (E2)
1. Press ▲ and ▼ to select “E2”.

Fig. 43 – Select E2
2. Press MODE. Next, press ▲ and ▼ to set the temperature (range: 63°F(17°C) to 75°F(24°C)).
3. Press TIMER ON to confirm.

Fig. 44 – TIMER ON

Highest Temperature Setting (E3)
1. Press ▲ and ▼ to select “E3”.

Fig. 45 – Select E3
2. Press MODE. Next, press ▲ and ▼ to set the temperature (range: 77°F(25°C) to 86°F(30°C)).
3. Press TIMER ON to confirm.

Fig. 46 – TIMER ON

Special Function Setting (E4)
Not available, used on future applications.

Priority Setting of Heating or Cooling (only on Multi-Zone Systems (E5))

⚠️ CAUTION
All heads must be set to the same priority

1. Press ▲ and ▼ to select “E5”.

Fig. 47 – Select E5
2. Press MODE. Next, press ▲ and ▼ to select “H” or “C”.
3. Press TIMER ON to confirm.

Fig. 48 – TIMER ON

Network Address Setting (E6)
Not available, used on future applications.

Capacity Code Selection (E7)
Not available, used on future applications.

Twins Setting (E8)
Not available, used on future applications.

Static Pressure Setting (E9)
Available only on 40MBDQ Ducted Units.
1. Press ▲ and ▼ to select “E9”.

Fig. 49 – Select E9
2. Press MODE. Next, press ▲ and ▼ to select the values between 0 and 4.
3. Press TIMER ON to confirm.

Fig. 50 – TIMER ON

NOTE: Depending on the model, some of the remote controller’s functions may not function.
### DEFAULT VALUES OF INDOOR UNITS

#### Table 2—Default Values of Indoor Units

<table>
<thead>
<tr>
<th>Description</th>
<th>Remote Code</th>
<th>High Wall</th>
<th>Cassette</th>
<th>Ducted</th>
<th>Floor Console</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto—Start Function</td>
<td>F1</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>Heating Temperature Compensation</td>
<td>F2</td>
<td>2°C</td>
<td>6°C</td>
<td>6°C</td>
<td>0°C</td>
</tr>
<tr>
<td>Anti—Cold Air Function</td>
<td>F3</td>
<td>NORMAL</td>
<td>NORMAL</td>
<td>NORMAL</td>
<td></td>
</tr>
<tr>
<td>Indoor Fan Motor Speed Control after Set Temperature is Reached</td>
<td>F4</td>
<td>LOWEST SPEED</td>
<td>SET SPEED</td>
<td>SET SPEED</td>
<td>SET SPEED</td>
</tr>
<tr>
<td>Louver Angle Memory Function</td>
<td>F5</td>
<td>ON</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Heating Only or Cooling and Heating Setting</td>
<td>F6</td>
<td>CH</td>
<td>CH</td>
<td>CH</td>
<td></td>
</tr>
<tr>
<td>Cooling Temperature Compensation</td>
<td>F7</td>
<td>–2°C</td>
<td>–2°C</td>
<td>–2°C</td>
<td></td>
</tr>
<tr>
<td>Refrigerant Leakage Detection</td>
<td>F8</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td></td>
</tr>
<tr>
<td>Cleaning Filter Reminder</td>
<td>F9</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td></td>
</tr>
<tr>
<td>Filter Replacement Reminder</td>
<td>E1</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td></td>
</tr>
<tr>
<td>Lowest Temperature Setting</td>
<td>E2</td>
<td>17°C</td>
<td>17°C</td>
<td>17°C</td>
<td>17°C</td>
</tr>
<tr>
<td>Highest Temperature Setting</td>
<td>E3</td>
<td>30°C</td>
<td>30°C</td>
<td>30°C</td>
<td>30°C</td>
</tr>
<tr>
<td>Special Anti—Cold Air Function Setting</td>
<td>E4</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Priority Setting of Heating or Cooling (Multi—Zone Systems only)</td>
<td>E5</td>
<td>H</td>
<td>H</td>
<td>H</td>
<td></td>
</tr>
<tr>
<td>Network Address Setting</td>
<td>E6</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Capacity Code Selection</td>
<td>E7</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Twins Setting</td>
<td>E8</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Static Pressure Setting</td>
<td>E9</td>
<td>N/A</td>
<td>N/A</td>
<td>0</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**POINT CHECK FUNCTION**

Press LED on the remote controller three times and then press SWING three times within 10 seconds, the buzzer rings for 2 seconds and the air conditioner enters the information enquiry status.

Next, press LED to search the information. Press SWING to search the remaining information. When the air conditioner enters the enquiry information status, it displays the code name in 2 seconds (see Table 3).

#### Table 3—Point Check Function

<table>
<thead>
<tr>
<th>Enquiry Information</th>
<th>Displaying Code</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>T1</td>
<td>T1 temp.</td>
</tr>
<tr>
<td>T2</td>
<td>T2</td>
<td>T2 temp.</td>
</tr>
<tr>
<td>T3</td>
<td>T3</td>
<td>T3 temp.</td>
</tr>
<tr>
<td>T4</td>
<td>T4</td>
<td>T4 temp.</td>
</tr>
<tr>
<td>T2B</td>
<td>Tb</td>
<td>T2B temp.</td>
</tr>
<tr>
<td>TP</td>
<td>TP</td>
<td>TP temp.</td>
</tr>
<tr>
<td>TH</td>
<td>TH</td>
<td>TH temp.</td>
</tr>
<tr>
<td>Targeted Frequency</td>
<td>FT</td>
<td>Targeted Frequency</td>
</tr>
<tr>
<td>Actual Frequency</td>
<td>Fr</td>
<td>Actual Frequency</td>
</tr>
<tr>
<td>Indoor fan speed</td>
<td>IF</td>
<td>Indoor fan speed</td>
</tr>
<tr>
<td>Outdoor fan speed</td>
<td>OF</td>
<td>Outdoor fan speed</td>
</tr>
<tr>
<td>EXV opening angle</td>
<td>LA</td>
<td>EXV opening angle</td>
</tr>
<tr>
<td>Compressor continuous running time</td>
<td>CT</td>
<td>Compressor continuous running time</td>
</tr>
<tr>
<td>Causes of compressor stop</td>
<td>ST</td>
<td>Causes of compressor stop</td>
</tr>
<tr>
<td>Reserve</td>
<td>A0</td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>A1</td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>b0</td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>b1</td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>b2</td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>b3</td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>b4</td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>b5</td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>b6</td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>dL</td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>Ac</td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>Uo</td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>Td</td>
<td></td>
</tr>
</tbody>
</table>
When the air conditioner enters the enquiry information status, it displays the code value in the next 25 seconds after the display name appears (see Table 4).

### Table 4—Code Value

<table>
<thead>
<tr>
<th>Enquiry Information</th>
<th>Display Value</th>
<th>Meaning</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1,T2,T3, T4,T2B,TP, TH, Targeted Frequency, Actual Frequency</td>
<td><strong>−1F,−1E, −1d,−1c, −1b,−1A</strong></td>
<td><strong>−19~−99</strong></td>
<td>1. The displaying temperature is the actual value.</td>
</tr>
<tr>
<td></td>
<td><strong>−19~−99</strong></td>
<td><strong>−19~−99</strong></td>
<td>2. The temperature is Celsius no matter what kind of remote controller is used.</td>
</tr>
<tr>
<td></td>
<td>A0,A1...A9</td>
<td>100,101......109</td>
<td>3. T1,T2,T3,T4,T2B display range: 77°F(−25°C)~ 158°F (70°C), TP display range: −20~ 130.</td>
</tr>
<tr>
<td></td>
<td>b0,b1...b9</td>
<td>110,111....119</td>
<td>4. Frequency display range: 0~159HZ.</td>
</tr>
<tr>
<td></td>
<td>c0,c1....c9</td>
<td>120,121....129</td>
<td>5. If the actual value exceeds the range, it displays the maximum value or minimum value.</td>
</tr>
<tr>
<td></td>
<td>d0,d1...d9</td>
<td>130,131....139</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E0,E1...E9</td>
<td>140,141....149</td>
<td></td>
</tr>
<tr>
<td></td>
<td>F0,F1...F9</td>
<td>150,151....159</td>
<td></td>
</tr>
<tr>
<td>Indoor fan speed/Outdoor fan speed</td>
<td>0</td>
<td>OFF</td>
<td></td>
</tr>
<tr>
<td>Indoor fan speed/Outdoor fan speed</td>
<td>1,2,3,4</td>
<td>Low speed, Medium speed, High speed, Turbo</td>
<td>For some big capacity motors</td>
</tr>
<tr>
<td>Indoor fan speed/Outdoor fan speed</td>
<td>14—FF</td>
<td>Actual fan speed = Display value turns to decimal value and then multiply by 10. The unit is RPM.</td>
<td>For some small capacity motors, display value is from 14—FF (hexadecimal), the corresponding fan speed range is from 200~2550RPM.</td>
</tr>
<tr>
<td>EXV opening angle</td>
<td>0—FF</td>
<td>Actual EXV opening value = Display value turns to decimal value and then multiply by 2.</td>
<td></td>
</tr>
<tr>
<td>Compressor continuous running time</td>
<td>0—FF</td>
<td>0—255 minutes</td>
<td>If the actual value exceeds the range, it displays the maximum value or minimum value.</td>
</tr>
<tr>
<td>Compressor stop causes</td>
<td>0−99</td>
<td>For a detailed meaning, please consult with an engineer</td>
<td>Decimal display</td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reserve</td>
<td>0—FF</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>