8.8 KRP58M51 — Demand adaptor

**KRP58M51**

**Installation**

**DEMAND ADAPTOR MOUNTING INSTRUCTIONS**

**KRP58M51**

- **WARNING:**
  - Before installing this kit, turn off power switch.
  - Do not turn on it until all work is complete.
  - See the installation manual and the wiring diagram of the outdoor unit for installation work too.

**Accessories**
- Check if the following accessories are included in the kit.
- Demand adaptor printed circuit board ASSY
- Tie wrap × 4
- Fixing screw × 1
- Installation manual × 1 (Each language)

**1 SYSTEM OUTLINE**

The following setup for outdoor units can be done by this kit.
1. Demand control
2. Night quiet operation mode

**2 NAMES OF PARTS AND FUNCTION**

- **ADAPTS SETTING SWITCH (JS1):**
  - To set in demand 1 mode
- **POWER SUPPLY CONNECTOR (X801A):**
  - To connect to outdoor unit PCB board (X77A)
- **TRANSMISSION CONNECTOR (X8A):**
  - To connect to outdoor unit PCB board (X6A)
- **HIGH VOLTAGE HARNES(S) (ACK):**
- **TERMINAL SPECIFICATION:** 6 poles and M3 screw
- **DEMAND NIGHT QUIET INPUT TERMINAL BOARD (X801M):**
  - Connects control input from the remote controller/central control monitor/timer/etc.

**3 SETTING METHOD**

1. **SETTING OF DEMAND RUNNING**

   ![Diagram of Demand Running]

   **INPUT SIGNAL**
   - Always a contactor
   - Input current is 12mA per contactor
   - Please use small current contactor as input contactor
   - Please use the minimum load of DC 12V, 1mA or less

   **FIELD WIRING SPECIFICATION**
   - Recommended wiring: sheathed vinyl cord or 2 wire cable 0.75~1.25mm² (AWG 18~16)
   - Wiring length: 100m or less
   - Keep transmission wiring away from power supply wiring to avoid malfunction

   **DEMAND 1:** Short circuit COM-1
   - Guideline of power consumption between 60~100%
   - **SET POINT**
     - ON: 100%
     - OFF: 0%
   - **INPUT ON POWER CONSUMPTION**
     - OFF OFF
     - 100% of RATED POWER CONSUMPTION
   - **OFF ON**
     - 100% of RATED POWER CONSUMPTION
   - **ON ON**
     - 100% of RATED POWER CONSUMPTION

   **DEMAND 2:** Short circuit COM-2
   - Guideline of power consumption at 40%
   - **SET POINT**
     - OFF OFF
     - 40% of RATED POWER CONSUMPTION
   - **OFF ON**
     - 40% of RATED POWER CONSUMPTION
   - **ON ON**
     - 40% of RATED POWER CONSUMPTION

   **DEMAND 3:** Short circuit COM-3
   - Forced thermostat OFF
   - **SET POINT**
     - OFF OFF
     - OFF OFF
     - OFF OFF
   - **INPUT ON POWER CONSUMPTION**
     - OFF OFF
     - OFF OFF
     - OFF OFF

**NOTES:**
- Input signal and field wiring specification is the same as above
- Short circuit between COM-LNOP on terminals (X801M) of demand adaptor
- Low sound running to be done with limited outdoor fan speed, compressor running frequency (this model should be used with low load at night, etc.)
- Setting of auto mode and setting by remote controller (technical guide)
1. Open the front panel, and take the demand adaptor printed circuit board from the demand adaptor case.

2. Mount the demand adaptor printed circuit board.

3. Transmission connector (X60A (white)) connect to P.C.B., control connector (X6A (white)).
   Power supply connector (X81A (white)) connect to P.C.B., control connector (X77A (yellow)).
   Pass the high voltage harness (black) through the back of terminal bed.

4. Fix the remaining low voltage harness (white) with clamp (accessory).
   Bind the remaining high voltage harness (black) with clamp (accessory) without slack.

5. Pass the field wiring under the high voltage harness (black) and fix it with clamp (accessory).

Detail information of options

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1. Open the front panel.

2. Mount the demand adaptor printed circuit board ASSY.

3. Clamp the harness with tie wraps (accessory).

4. Transmission connector (X80A) connect to P.C.B. control connector (X76A).

5. Power supply connector (X81A) connect to P.C.B. control connector (X77A).
1. Open the front panel, and take the demand adaptor printed circuit board from the demand adaptor case.

2. Mount the demand adaptor printed circuit board.

3. Transmission connector (X80A(white)) connect to P.C.B. control connector (X6A(white))

   Power supply connector (X81A(white)) connect to P.C.B. control connector (X77A(Yellow))

4. Fix the remaining low voltage harness (white) with clamp (accessory).

   Fix the remaining high voltage harness (black) with clamp (accessory).

5. Fix the field wiring with clamp (accessory)