

4.11. FIELD SETTING

⚠ CAUTION

Discharge the static electricity from your body before setting up the DIP switches.
Never touch the terminals or the patterns on the parts that are mounted on the board.

Fig. 4.11-1, Fig. 4.11-2 shows the positions of the switches on the board of the outdoor unit.

Fig. 4.11-1

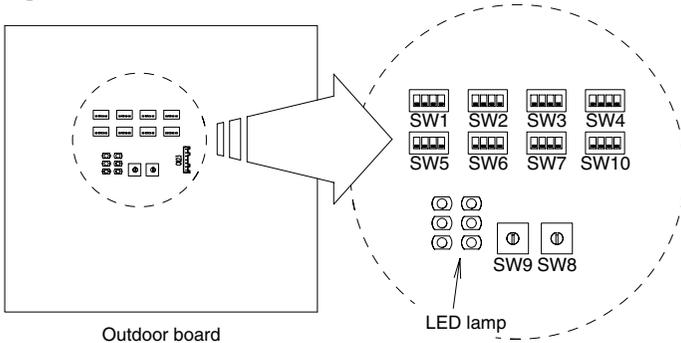
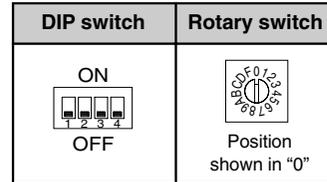


Fig. 4.11-2 Detail of switch



4.11.1. SWITCH SETTING

Table 4.11-1 DIP Switch Setup

DIP switch		Function
SW1	1	Test run (cooling)
	2	Test run (heating)
	3	Pump down operation
	4	Forbidden
SW2	1	Silent operation mode
	2	Falling protection fan mode
	3	Sequential start shift switch 1
	4	Sequential start shift switch 2
SW3	1	Outdoor unit capacity switch 1
	2	Outdoor unit capacity switch 2
	3	Outdoor unit address switch 1
	4	Outdoor unit address switch 2
SW4	1	Slave unit connection number switch 1
	2	Slave unit connection number switch 2
	3	Forbidden
	4	Error reset
SW5	1	Cooling ability shift switch 1
	2	Cooling ability shift switch 2
	3	Heating ability shift switch 1
	4	Heating ability shift switch 2
SW6	1	Piping length switch 1
	2	Piping length switch 2
	3	Forbidden
	4	Forbidden
SW7	1	Model information switch 1
	2	Forbidden
	3	Indoor unit small capacity switch
	4	Forbidden
SW10	1	Forbidden
	2	Forbidden
	3	Forbidden
	4	Forbidden

4.11.2. FIELD SETTING

The following describes the switch functions and setups that are required for installing an outdoor unit.

1. SW1 Setting

SW1-1, 1-2 (Test run)

The setting SW1 is only performed on the master unit.

There is no need to make this setting on the slave unit.

* For details on the master and slave units, refer to page 1.

SW1-3 (Pump down)

For the pump down method, refer to "8. PUMP DOWN".

2. SW2 Setting

SW2-1 (Silent operation mode)

The operating mode can be switched to this mode for reduced noise during operation of the outdoor unit, such as at night.

The setting of SW2-1 must be done on both master and slave units.

SW2-2 (Snow fall protection fan mode)

When this is set, the fan for the outdoor unit is operated periodically even when the compressor is stopped to prevent the unit from becoming covered with snow.

The setting of SW2-2 must be done on both master and slave units.

SW2-3, 2-4 (Sequential start shift timing)

The timing of the start-up of the outdoor unit can be delayed by several seconds with this setting.

The setting SW2-3, 2-4 is only performed on the master unit. There is no need to make this setting on the slave unit.

* This feature is useful for limiting the start-up current when multiple outdoor units are installed and started at the same time.

3. SW3 Setting

SW3-1, 3-2 (Outdoor model)

Never change the DIP SW3-1, 3-2 which are set up at factory.

SW3-3, 3-4 (Outdoor unit address)

The setting of SW3-3, 3-4 is to be done when installing Slave 2. There is no need to make this setting on the master unit.

* This setting is only enabled when the power is turned on.

Table 4.11-2 DIP SW1-1, 1-2 setting

SW1-1	SW1-2	Control mode	Remarks
OFF	OFF	Normal (Factory setting)	Refer to Chapter "6" for the test run methods.
ON	OFF	Test run (Cooling)	
OFF	ON	Test run (Heating)	
ON	ON	Normal	

Table 4.11-3 DIP SW1-3 setting

SW1-3	Pump Down Setting (reference)	Remarks
OFF (Factory setting)	Release	ON → OFF
ON	Operate	OFF → ON

Table 4.11-4 DIP SW2-1 setting

SW2-1	Silent operation mode
OFF (Factory setting)	Release
ON	Operate

Table 4.11-5 DIP SW2-2 setting

SW2-2	Snow fall protection fan mode
OFF	Release (Factory setting)
ON	Operate

Table 4.11-6 DIP SW2-3, 2-4 setting

SW2-3	SW2-4	Sequential start mode
OFF	OFF	Normal (Factory setting)
OFF	ON	21 second delay
ON	OFF	42 second delay
ON	ON	63 second delay

Table 4.11-7 DIP SW3-1, 3-2 setting

SW3-1	SW3-2	Outdoor Unit Model
OFF	OFF	AJ □ A72
OFF	ON	AJ □ A90
ON	OFF	AJ □ 126
ON	ON	Forbidden

Table 4.11-8 DIP SW3-3, 3-4 setting

SW3-3	SW3-4	Outdoor unit address	Remarks
OFF	OFF	0 (Factory setting)	Master unit
OFF	ON	1 (Factory setting)	Slave unit 1
ON	OFF	2	Slave unit 2
ON	ON	Forbidden	

4. SW4 Setting

SW4-1, 4-2 (Number of connectable outdoor units)

This DIP switch setting sets the number of outdoor units.

There is no need to make this setting on the slave unit.

SW4-4 Error reset (Setting for master and slave unit)

In the event of compressor failure etc., error information is stored in PCB.

After repairing the parts and turn ON the power, set the DIP-SW for reset the error.

(Note : without above setting, error information can't be released and continue to Error display.)

5. SW5 Setting

SW5-1, 5-2 (Cooling ability shift switch setting)

Set them as necessary.

There is no need to make this setting on the slave unit.

SW5-3, 5-4 (Heating ability shift switch setting)

Set them as necessary.

There is no need to make this setting on the slave unit.

6. SW6 Setting

SW6-1, 6-2 (Pipe Length)

This SW setting can be used to provide operation to supplement the loss created by the pipe length.

There is no need to make this setting on the slave unit.

7. SW7 Setting

SW7-1 (Model Type)

SW7-3 (Indoor unit small capacity setting)

If the total capacity of the connected indoor units is less than 90% of the outdoor unit capacity, set this switch to ON.

There is no need to make this setting on the slave unit.

Table 4.11-9 DIP SW4-1, 4-2 setting

SW4-1	SW4-2	Number of connectable outdoor units	Remarks
OFF	OFF	0 (Factory setting)	Master unit only
OFF	ON	1	1 slave unit connected
ON	OFF	2	2 slave units connected
ON	ON	Forbidden	

SW4-4	Error reset
OFF→ON ON→OFF	Error reset

Table 4.11-10 SW5-1, 5-2 setting

SW5-1	SW5-2	Ability Shift
OFF	OFF	Normal (Factory setting)
OFF	ON	Save energy mode
ON	OFF	High power mode 1
ON	ON	High power mode 2

Table 4.11-11 SW5-3, 5-4 setting

SW5-3	SW5-4	Ability Shift
OFF	OFF	Normal (Factory setting)
OFF	ON	Save energy mode
ON	OFF	High power mode 1
ON	ON	High power mode 2

Table 4.11-12 DIP SW6-1, 6-2 setting

SW6-1	SW6-2	Pipe Length (m)	Remarks
OFF	OFF	40 < Pipe Length ≤ 80	(Factory setting)
OFF	ON	Pipe Length ≤ 40	
ON	OFF	80 < Pipe Length < 120	
ON	ON	120 < Pipe Length ≤ 150	

Table 4.11-13 DIP SW7-1 setting

SW7-1	Model Type	Remarks
OFF	Heat Pump	Factory setting
ON	Cooling Only	

Table 4.11-14 DIP SW7-3 setting

SW7-3	Indoor unit installation capacity	Remarks
OFF	90% or more	Factory setting
ON	less than 90%	