

10-10. FUNCTION OF SWITCHES, CONNECTORS AND JUMPERS

(1) Function of switches

The black square (■) indicates a switch position.

Type of switch	Switch	No.	Function	Action by the switch operation		Effective timing		
				ON	OFF			
DIP switch	SW1	1	Manual defrost *1	Start	Normal	When compressor is operating in heating operation. *1		
		2	Abnormal history clear	Clear	Normal	Off or operating		
		3	Refrigerant address setting					When power supply ON
		4						
		5						
		6						
	SW4	1	Test run	Operating	OFF	Under suspension		
		2	Test run mode setting	Heating	Cooling			
	SW8	1	No function	—	—	—		
		2	No function	—	—	—		
		3	Separate indoor/outdoor unit power supplies	Used	Not used	When power supply ON		
	Push switch	SWP		Pump down	Start	Normal	Under suspension	

*1 Manual defrost should be done as follows.

- ① Change the DIP SW1-1 on the outdoor controller board from OFF to ON.
- ② Manual defrost will start by the above operation 1 if all these conditions written below are satisfied.
 - Heat mode setting
 - 10 minutes have passed since compressor started operating or previous manual defrost is finished.
 - Pipe temperature is less than or equal to 46°F [8°C].

Manual defrost will finish if certain conditions are satisfied.

Manual defrost can be done if above conditions are satisfied when DIP SW1-1 is changed from OFF to ON.

After DIP SW1-1 is changed from OFF to ON, there is no problem if DIP SW1-1 is left ON or changed to OFF again. This depends on the service conditions.

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Type of Switch	Switch	No.	Function	Action by the switch operation		Effective timing																																																																																																																																																																																																	
				ON	OFF																																																																																																																																																																																																		
DIP switch	SW5	1	No function	—	—	—																																																																																																																																																																																																	
		2	Power failure automatic recovery *2	Auto recovery	No auto recovery	When power supply ON																																																																																																																																																																																																	
		3,4,5	No function	—	—	—																																																																																																																																																																																																	
		6	Model select	Following SW5-6 reference																																																																																																																																																																																																			
	SW7 *4	1	Setting of demand control *3	SW7-1	SW7-2	Max. compressor frequency (Demand switch ON)	Always																																																																																																																																																																																																
		2		OFF	OFF	0% (Operation stop)																																																																																																																																																																																																	
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		OFF		ON	75%																																																																																																																																																																																																		
		3	Max. Hz setting(cooling)	Max. Hz(cooling) × 0.8	Normal	Always																																																																																																																																																																																																	
		4	Max. Hz setting(heating)	Max. Hz(heating) × 0.8	Normal	Always																																																																																																																																																																																																	
	5	No function	—	—	—																																																																																																																																																																																																		
	6	Defrost setting	For high humidity	Normal	Always																																																																																																																																																																																																		
	SW9	1	No function	—	—	—																																																																																																																																																																																																	
		2	Function switch	Valid	Normal	Always																																																																																																																																																																																																	
		3,4	No function	—	—	—																																																																																																																																																																																																	
	SW6	1	Model select	<table><tr><th>MODEL</th><th>SW6</th><th>SW5-5, 6 *5</th><th>MODEL</th><th>SW6</th><th>SW5-5, 6 *5</th></tr><tr><td>PUZ-A18NHA6</td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table></td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr></table></td><td>PUZ-A30NHA6</td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table></td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr></table></td></tr><tr><td>PUY-A12NHA6</td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table></td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr></table></td><td>PUZ-A36NHA6</td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table></td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr></table></td></tr><tr><td>PUY-A18NHA6</td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table></td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr></table></td><td>PUY-A30NHA6</td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table></td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr></table></td></tr><tr><td>PUZ-A24NHA6</td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table></td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr></table></td><td>PUY-A36NHA6</td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table></td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr></table></td></tr><tr><td>PUY-A24NHA6</td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table></td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr></table></td><td>PUZ-A42NHA6</td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr></table></td><td>ON OFF <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr></table></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> The black square (■) indicates a switch position.				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*2 Power failure automatic recovery can be set by either remote controller or this DIP SW. If one of them is set to ON, Auto recovery activates. Please set Auto recovery basically by remote controller because not all units have DIP SW. Please refer to the indoor unit installation manual.

*3 SW7-1,2 are used for demand control. SW7-1,2 are effective only at the demand control. (Refer to the next page: Special function (b))

*4 Please do not use SW7-3 to 6 usually. Trouble might be caused by the usage condition.

*5 SW5-1 to 4: Function switch

(2) Function of connector

Types	Connector	Function	Action by open/ short operation		Effective timing
			Short	Open	
Connector	CN31	Emergency operation	Start	Normal	When power supply ON

Special function

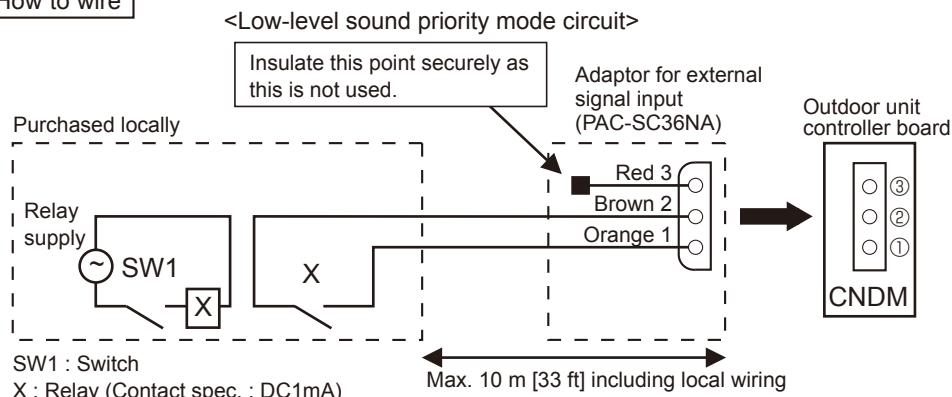
(a) Low-level sound priority mode (Local wiring)

Unit enters into Low-level sound priority mode by external signal input setting.

Inputting external signals to the outdoor unit decreases the outdoor unit operation sound 3 to 4 dB lower than that of usual. Adding a commercial timer or on-off switch contactor setting to the CNDM connector which is optional connector for demand input located on the outdoor controller board enables to control compressor operation frequency.

Note: The performance depends on the load of conditioned outdoor temperature.

How to wire



1) Make the circuit as shown above with Adaptor for external signal input (PAC-SC36NA).

2) Turn SW1 to on for Low-level sound priority mode.

Turn SW1 to off to release Low-level sound priority mode and normal operation.

(b) Demand control (Local wiring)

Demand control is available by external input. In this mode, power consumption is decreased within the range of usual 0 to 100%.

How to wire

Basically, the wiring is the same as (a).

Connect an SW1 which is procured at field to the between Orange and Red (1 and 3) of the Adaptor for external signal input (PAC-SC36NA), and insulate the tip of the brown lead wire.

It is possible to set it to the following power consumption (compared with ratings) by setting the SW7-1, 2.

SW7-1	SW7-2	Max. compressor frequency (SW1 on)
OFF	OFF	0% (Operation stop)
ON	OFF	50%
OFF	ON	75%