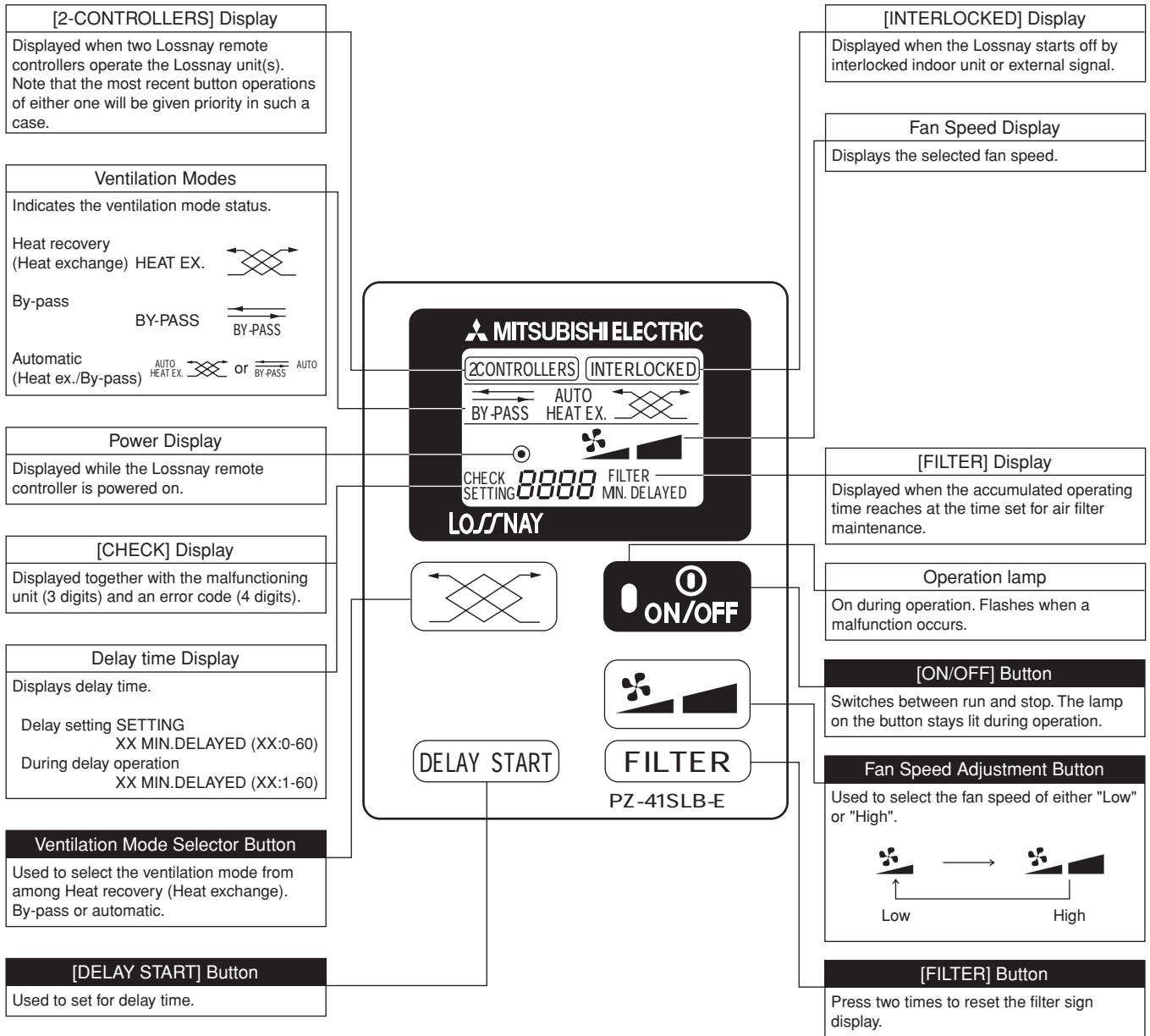


13. Lossnay Remote Controller (PZ-41SLB-E)

13.1 Operation




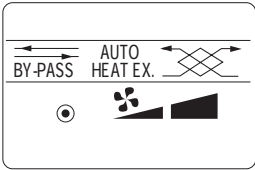
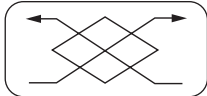
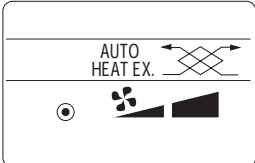


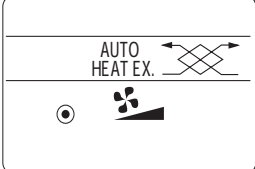

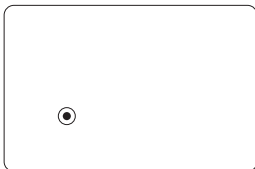
* Entire panel is displayed for explanation.

Note:

- When power is restored after an outage or when the corresponding breaker for the distribution box is reset, all modes will return to the condition before the supply of power was interrupted.

13.2 Mode of Use


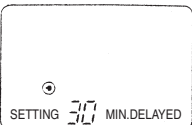
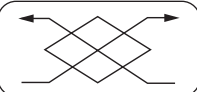
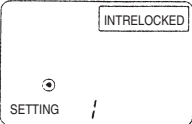
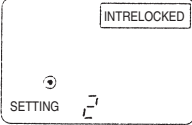
● Independent Operation of the Lossnay Unit:

Operation	Relevant button	Relevant display items	Sequence
1. Starting the Lossnay unit	 Operation lamp		Press the ON/OFF button and confirm that the Operation lamp turns on. The 2CONTROLLERS display item will be turned on if a double set of remote controllers is currently in use.
2. Setting the Ventilation mode		 The above display indicates that the unit is operating in non-automatic, bypass ventilation mode.	Press the Function selector button: Each time it is pressed, the corresponding display will change in accordance with the sequence [HEAT EX.] (non-automatic) → [BY-PASS] (non-automatic) → [AUTO]. If [AUTO] is selected, the display will change to indicate the current situation after two seconds have passed. 
3. Selecting the fan speed		 The above display indicates current operation with a gentle fan speed.	Press the Fan Speed selector button to select either Low or High fan speed.
4. Stopping the Lossnay unit	 Operation lamp		Press the ON/OFF button. (Press the ON/OFF button to turn off the Operation lamp.)

● Interlocked Operation with Indoor unit or external signal.

The Lossnay unit can be set up in such a way that it may be turned on and off by external device such as an air conditioners. In such a case, the remote controller's [INTERLOCKED] display will be turned on. Note that the selection of ventilation mode and of fan speed can be performed in the same way as for independent operation of the Lossnay unit.

Settings for Interlocking the Lossnay unit with an external device

Setting	Relevant button	Relevant display items	Sequence
Delay time This setting is used to determine how long will elapse after the start of operation of the external device until the Lossnay unit begins to operate.	 Delay Start button	 The above display indicates a delay time of 30 minutes.	Each time the Delay Start button is pressed, the delay time will change in accordance with the repeating sequence (minutes) 0 → 10 → 20 → 30 → 40 → 50 → 60 ↑ When the button is released before 5 seconds have elapsed, the display will turn off and the current delay time will be selected. Note that a delay time of 0 minutes is set before shipment from the manufacturing plant.
Interlocked mode This setting is used to determine the way in which the Lossnay will respond to starting and stopping of Interlocked to an external device such as an air conditioner, etc. *: Note that the delay time will be invalidated in situations where a setting of [3] has been selected for the Operation mode or when the Lossnay unit is interlocked with a building-management system.	 Function selector button	  The above indicates a setting of [2].	1. Press and hold the Function selector button for at least 5 seconds to display the interlock setting. Note that this is set to [1] before shipment from the manufacturing plant. 2. Press the Function selector button to change the setting in the repeating sequence → 2 → 3 → 4 → 1 When the button is released before 5 seconds have elapsed, the display will turn off and the current setting will be selected.

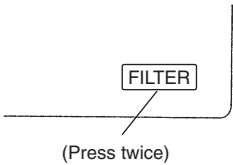
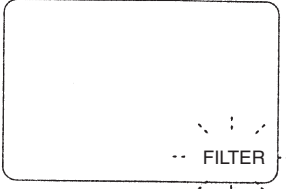
Mode of Use (cont.)

Interlocked Operation mode types and actions

Display number	Interlocked Operation mode	Action (of the external unit)	Action (of the building-management system)
1	ON/OFF Interlocking: Subsequent operation with the remote controller possible (factory setting)	When the external device begins to operate, the Lossnay unit will also begin to operate; when the external air conditioner stops operating, the Lossnay unit will also stop operating.	The Lossnay unit toggles between ON and OFF conditions in response to signals (or pulses) which are input from a building-management system or the like.
2	ON Interlocking	When the external device begins to operate, the Lossnay unit will also begin to operate; stopping of the Lossnay unit must be performed using the remote controller.	The Lossnay unit begins to operate in response to a signal (or pulse) which is input from a building-management system or the like; stopping of the Lossnay unit must be performed using the remote controller.
3	OFF Interlocking	When the external device stops operating, the Lossnay unit will also stop operating; starting of the Lossnay unit must be performed using the remote controller.	The Lossnay unit stops operating in response to a signal (or pulse) which is input from a building-management system or the like; starting of the Lossnay unit must be performed using the remote controller.
4	ON/OFF Interlocking: External inputs have priority	Same as for setting 1 above; however, it is not possible to stop the Lossnay unit using the remote controller while the external device is operating.	Same as for setting 1 above.

13.3 Care and Upkeep

Actions required when the Filter Cleaning display begins to flash:

	Relevant button	Relevant display items	Sequence
Filter reset (i.e., clearing the total Lossnay-unit operating time)			Press the [Filter] button twice in immediate succession and confirm that the Filter display turns off.
Cleaning of the Lossnay unit's filter	Perform cleaning of the air filter and the Lossnay core in accordance with the instructions in the user's manual which was provided with the Lossnay unit.		
Care of the remote controller	To remove dirt from the remote controller's display window, wipe with a cloth to which detergent has been applied, and then wipe with a dry cloth to remove any remaining detergent. ● Paint thinner, alcohol, benzene, gasoline, kerosene, spray cleaner, cleaning alkali, etc.		

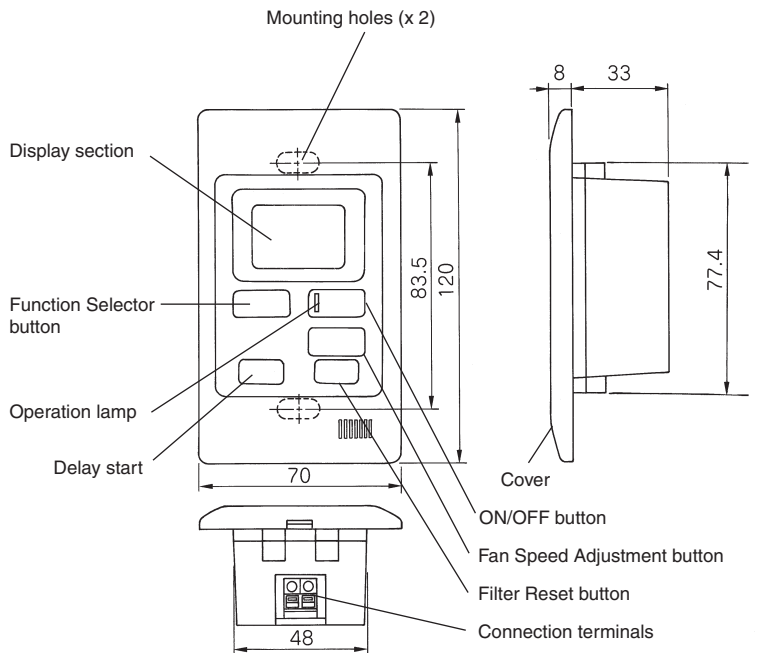
13.4 After-Sales Service

- If any of the following inspection numbers should be displayed on the remote controller, please contact the dealer from where this product was purchased for more information.

4000, 5 10 1, 5 10 2, 3602, 0900

- After-sales servicing of the remote controller unit should be ordered from the retail outlet from where this product was purchased.

13.5 Component Names and External Dimensions



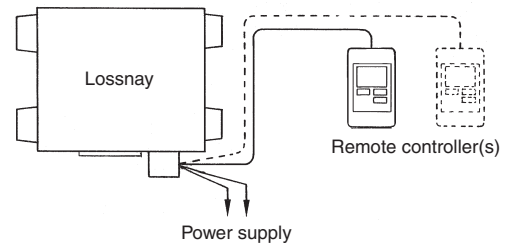
Accessory parts

Screws (x 2)

Units: mm

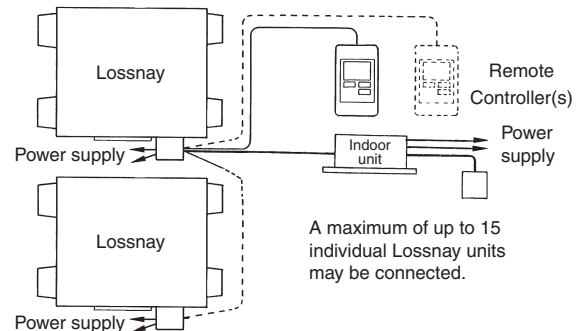
Typical System Setup

<Independent operation of the Lossnay unit:>

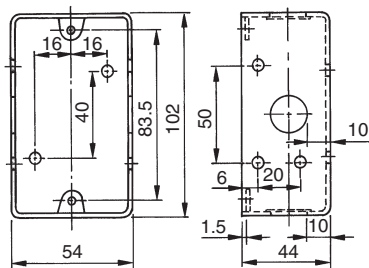


- When two individual remote controllers have been installed, the most recent control signals will be given priority.

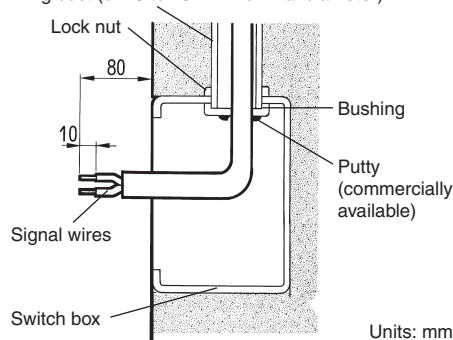
<Interlocked operation with an air conditioner, etc.:>



13.6 Installation Dimensions



Wiring duct (of 15 to 25-mm nominal diameter)



1. Wiring

- (1) Perform insertion of a single-unit switch box (without a cover).
- (2) Lay the wiring duct as far as the switch box.
- (3) Connect the signal wires from the Lossnay unit to the switch box. (Note that 2-core telephone cable should be used; furthermore, this cable should be of PVC insulated PVC jacketed and either between $\varnothing 0.65$ and $\varnothing 1.2$, or between 0.3 mm^2 and 1.25 mm^2 in cross section.)
- (4) Use standard putty to create a secure seal so as to prevent frosting due to the intake of atmospheric air.

Note:

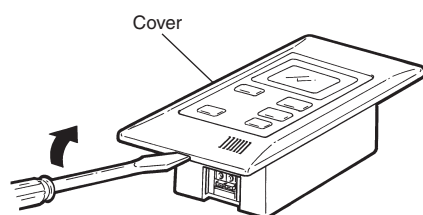
- Confirm that the Lossnay unit's power supply is not turned on before connecting its signal wire to the switch box.

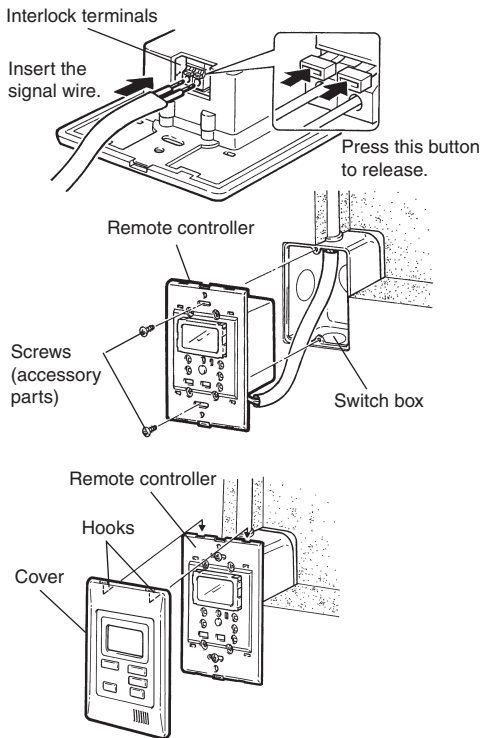
2. Cover removal

To remove the cover, insert the tip of a flat-head screwdriver into the notch and turn.

Note:

- Take care during removal of the cover to avoid any damage being caused.





3. Connection of wiring and remote-controller mounting:

- (1) Fully insert the (non-polar) signal wiring into the connection terminals.
- (2) Gently tug on the wiring to confirm that it is being securely gripped.
- (3) Mount the remote controller on the switch box using the two screws provided as accessory parts.

4. Mounting of the cover

To mount the cover, secure the two hooks at its upper edge and press on its lower section until it is heard to snap into place.

5. Switching of function selection

- (1) Setting for filter maintenance



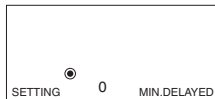
When Lossnay unit has operated for the time set as the cumulative-operation time, the Filter display will begin to flash indicating the cleaning of the filter is required. This setting time should be selected in accordance with the degree of contamination of the air in the unit's installation location. To perform an actual setting, press and hold the FILTER button for at least five seconds to display the setting value and to turn on the Filter display.

[FILTER] Then, press the Filter button to change the setting value in the repeating sequence (factory setting)

3000 → 4500 → OFF → 1500

When the button is released before 5 seconds have elapsed, the display will turn off and the current replacement time will be selected. Note that this value is set to [3000] before shipment from the manufacturing plant.

- (2) Setting for delayed interlocked operation



The delay-time setting is used to determine the length of the period that will elapse after the start of operation of the external devices until the Lossnay unit begins to operate. To perform an actual setting, press and hold the DELAY START button for at least five seconds while the Lossnay unit is currently stopped to display the setting value as shown in the diagram.

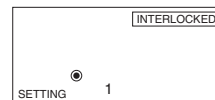
[DELAY START] Each time the DELAY START button is pressed, the delay time will change in accordance with the repeating sequence (factory setting)


0 → 10 → 20 → 30 → 40 → 50 → 60 minutes.


(0:original setting at factory shipment)

When the button is released before 5 seconds have elapsed, the display will turn off and the current delay time will be selected. Note that a delay time of 0 minutes is set before shipment from the manufacturing plant. Note also that when OFF Interlock mode has been selected, this setting value will be invalidated.

- (3) Setting for interlocked mode



The Interlocked-mode setting is used to determine the way in which the Lossnay unit will respond to starting and stopping of interlocked external device such as an air conditioner, etc. To perform an actual setting, press and hold the  button for at least five seconds while the Lossnay unit is currently stopped to display the setting value as shown in the diagram.

 Press the switch to change the setting in the repeating sequence

(factory setting)

1 → 2 → 3 → 4

(1:original setting at factory shipment)

When the button is released before 5 seconds have elapsed, the display will turn off and the current setting will be selected. Note that this value is set to [1] before shipment from the manufacturing plant.

Interlocked Operation mode	Action
1 ON/OFF Interlocking	Starting and stopping of the Lossnay unit will be performed from external device -- specifically, when the external device begins to operate, the Lossnay unit will also begin to operate; when the external device stops operating, the Lossnay unit will also stop operating. Note that subsequent operation using the remote controller will be possible.
2 ON Interlocking	Starting of the Lossnay unit will be performed from external device -- specifically, when the external device begins to operate, the Lossnay unit will also begin to operate. Stopping of the Lossnay unit must be performed using the remote controller.
3 OFF Interlocking	Stopping of the Lossnay unit will be performed from external device -- specifically, when the external device stops operating, the Lossnay unit will also begin to operate. Stopping of the Lossnay unit must be performed using the remote controller.
4 ON/OFF Interlocking (with external-signal priority)	Starting and stopping of the Lossnay unit will be performed from external device -- specifically, when the external device begins to operate, the Lossnay unit will also begin to operate; when the external device stops operating, the Lossnay unit will also stop operating. However, it is not possible to stop the Lossnay unit using the remote controller while the external device is operating.

13.7 Trial Operation

After installation has been completed, it is of the utmost importance that trial operation of the Lossnay unit and any external device such as an air conditioner is carried out.

When power supply is supplied to the remote controller the [HO] display will flash (for approximately 40 seconds); following this, the system will switch to operation-start mode.

	Relevant button	Relevant display items	Sequence
1			Initiate the supply of power to the Lossnay unit. (The [HO] display will flash for approximately 40 seconds)
2			Press the ON/OFF button. The Operation lamp will turn on and the Lossnay unit will begin to operate.
3			Press the Function selector button: Each time it is pressed, the corresponding display will change in accordance with the sequence [HEAT EX.] (non-automatic) → [BY-PASS] (non-automatic) → [AUTO].
4			Press the Fan Speed Adjustment button to toggle between Low and High.
5			Press the Operation switch. The Operation lamp will turn off and the Lossnay unit will stop operating.

- Note that when the Ventilation Mode selector button is pressed, it will take up to 40 seconds before the operation of the damper changes accordingly.

If an inspection number should be flashed, refer to the following table and take the required action.

Inspection number	Cause	Required action
0900	The SW2 trial-operation switch from the Lossnay unit's control box is On.	Turn off the trial-operation switch. (refer to page 62)
6608	If two or more Lossnay units are currently being used together, this number will indicate that the correct setting has not been performed using the units' Main/Sub switches.	Turn off the power supply and use the Main/Sub switches to specify one Lossnay unit as the Main and the others as Sub. Following this, turn the supply of power back on. Note that all Lossnay units are specified as Main before shipment from the manufacturing plant. (refer to page 57)
	If two remote controllers are currently being used together, this number may indicate that one of these controllers is not connected.	Turn off the power supply, connect the remote controller, and turn the power supply back on. (refer to page 67)
	If two remote controllers are used together, this number may indicate that both of these controllers are not set automatically when the power supply is turned on.	Turn off the power supply and turn the power supply back on.
	Multi-core cable has been used in place of a number of signal wires.	Switch back to the use of standard wiring and install each signal wire separately.
4000	A circuit abnormality has occurred in the Lossnay unit.	Turn off the supply of power and contact the retail outlet from where this product was purchased for further instructions.
5101	A breakdown has occurred in the Lossnay thermo (OA side).	
5102	A breakdown has occurred in the Lossnay thermo (RA side).	
3602	A breakdown has occurred in the damper motor.	