



Mitsubishi Electric Building
Air Conditioning Control System

PROGRAM TIMER PAC-SC32PTA INSTALLATION MANUAL

CAUTION

<p>Do not install in any place exposed to flammable gas leakage. Flammable gases accumulated around the body of PAC-SC32PTA may cause an explosion.</p>	<p>Do not install in any place where acidic or alkaline solution or special spray are often be used. Doing so may cause an electric shock or malfunction.</p>
<p>Do not use in any special environment. Using in any place exposed to oil (including machine oil), steam and sulfuric gas may deteriorate the performance significantly or give damage to the component parts.</p>	<p>Use standard wires in compliance with the current capacity. A failure to this may result in an electric leakage, heating or fire.</p>
<p>Wire so that it does not receive any tension. Tension may cause wire breakage, heating or fire.</p>	<p>Do not touch any PCB (Printed Circuit Board) with your hands or with tools. Do not allow dust to collect on the PCB. Doing so may cause fire or an electric shock.</p>
<p>Completely seal the wire lead-in port with putty etc. Any dew, moisture, cockroaches, insects entering the unit may cause an electric shock or a malfunction.</p>	<p>Do not remove the insulation sheet on the PCB. Doing so may cause an electric shock.</p>
<p>Do not wash with water. Doing so may cause an electric shock or a malfunction.</p>	<p>Do not touch any control button with your wet hands. Doing so may cause an electric shock or a malfunction.</p>
<p>Do not install in any place at a temperature of more than 40°C or less than 0°C or exposed to direct sunlight.</p>	<p>Do not press any control button using a sharp object. Doing so may cause an electric shock or a malfunction.</p>
<p>Do not install in any steamy place such a bathroom or kitchen. Avoid any place where moisture is condensed into dew. Doing so may cause an electric shock or a malfunction.</p>	<p>Never contact the power supply with the control wiring terminals. Doing so will certainly cause the controller to catch fire.</p>

2. CHECK EACH ITEM BEFORE USE

This box contains the following parts in addition to this installation manual.

① PROGRAM TIMER	1
② 5-core cable (160 mm)	1
③ 5-core cable (500 mm)	1
④ WOOD SCREW	2
⑤ SCREW (M4 x 0.7 x 16)	2
⑥ INSTRUCTION BOOK	1
⑦ INSTRUCTION SEAL	11

3. INSTALLATION METHOD

- The program timer can be connected to the following remote controllers.
 - REMOTE CONTROLLER (PAR-JH050KA, PAR-JH240KA, PAR-JH250KA, PAR-JH150KA)
 - NETWORK REMOTE CONTROLLER (PAR-F25MA)
- INSTALLATION POSITION

Use the attached 5-core cable to connect the remote controller and the program timer. Carefully read the instructions below before determining the installation position.

 - When using a switch box

The remote controller and the program timer can either be mounted on the left or the right. The program timer can be installed on either the left or right side of the remote controller. However, since the length of the 5-core cable must conform to regulations, the space between the program timer and the remote controller should not exceed 10 mm.
 - Direct wall mounting

The program timer should be set to the left of the remote controller. The space between the remote controller and the program timer has to be less than 10 mm.
 - Exterior spaces

In both cases (using a switch box or direct wall mounting), a space of more than 30 mm should be left around the program timer.
 - The following parts need to be purchased locally:
 - Switch box (two hole type): boxes for rigid metal conduits
 - Rigid steel conduits (thin type)
 - Bushing
 - Locknuts
- WIRE INCOMING HOLE

Take notice: the hole through the 5-core cable is different when installing to the switch box or directly mounting it on a wall.

 - When using a switch box

Use the wire hole at the lower side of the bottom case. Press the plastic packing piece in the direction of the arrow to make space for the wire to go through (see the illustration at the right).
 - Direct wall mounting

Cut off the thin part of inside of the top case as show below. Cut off the left side of the thin part for the program timer and cut off the right part for the remote controller.

1. SAFETY PRECAUTIONS

This installation manual contains only the description of how to install the Network Remote Controller PAC-SC32PTA. For information about how to wire and how to install air conditioning units, see the installation manual for them.
For your safety, first be sure to read "1. SAFETY PRECAUTIONS" described below thoroughly and then install the Network Remote Controller PAC-SC32PTA correctly.

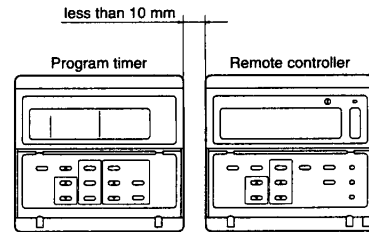
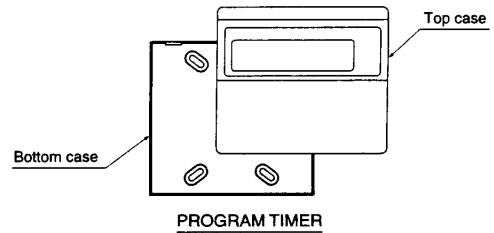
- The following two symbols are used to denote dangers that may be caused by incorrect use and their degree:

⚠ WARNING	This symbol denotes what could leads to serious injury or death if you mis-use the PAC-SC32PTA.
⚠ CAUTION	This symbol denotes what could lead to a personal injury or damage to your property if you mis-use the PAC-SC32PTA.

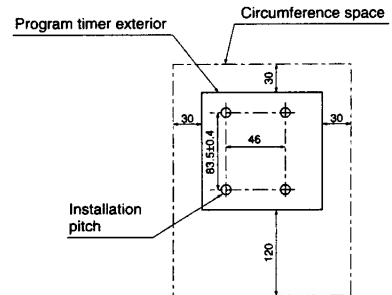
- After reading this installation manual, keep it in a place where the final user can see it anytime he or she wants to it.
When someone moves, repairs or uses the PAC-SC32PTA, make sure that this manual is forwarded to the final user.

WARNING

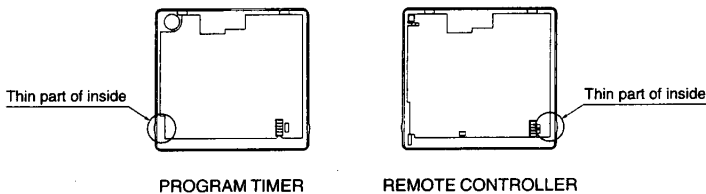
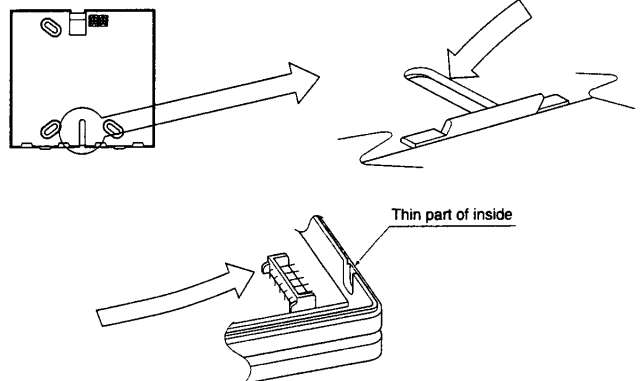
<p>Ask your dealer or technical representative to install the unit. Any deficiency caused by your own installation may result in an electric shock or fire.</p>	<p>Ensure that installation work is done correctly following this installation manual. Any deficiency caused by installation may result in an electric shock or fire.</p>
<p>Install in a place which is strong enough to withstand the weight of the PAC-SC32PTA. Any lack of strength may cause the PAC-SC32PTA to fall down, resulting in personal injury.</p>	<p>All electrical work must be performed by a licensed technician, according to local regulations and the instructions given in this manual. Any lack of electric circuit or any deficiency caused by installation may result in an electric shock or fire.</p>
<p>Firmly connect the wiring using the specified cables. Carefully check that the cables do not exert any force on the terminals. Improper wiring connections may produce heat and possibly a fire.</p>	<p>Do not move and re-install the PAC-SC32PTA yourself. Any deficiency caused by installation may result in an electric shock or fire. Ask your distributor or special vendor for moving and installation.</p>
<p>Never modify or repair the PAC-SC32PTA by yourself. Any deficiency caused by your modification or repair may result in an electric shock or fire. Consult with your dealer about repairs.</p>	



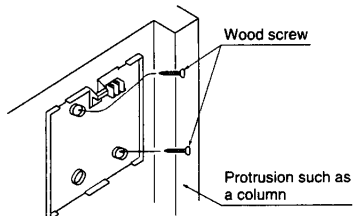
The space between PROGRAM TIMER and REMOTE CONTROLLER



Press the plastic lever all the way in the direction of the arrow.



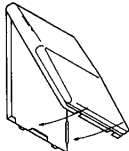
4) THE BOTTOM CASE SHOULD BE INSTALLED TO THE WALL OR SWITCH BOX



DIRECT WALL MOUNTING

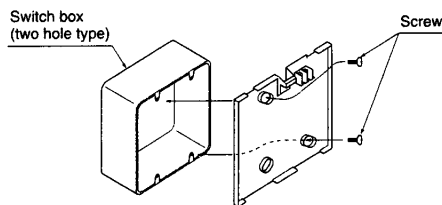
5) SET THE TOP CASE TO THE BOTTOM CASE USING THE CATCH
Connect the wire according to the CONNECTING METHOD. After connecting the wires, set the top case to the bottom case using catch.

Properly place the two catches of the top case to the bottom case as shown below.

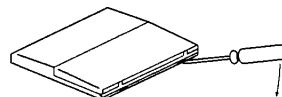


NOTE : Press it until you hear it snap.
Do not remove the protecting seat for the electrical board within the program timer.
Remove the protecting seat of the operating panel to set the program timer.

NOTE : Do not tighten the screw too hard as this could warp and crack the program timer.



When you want to remove the top case, use a screwdriver to pry the top case up.



NOTE : Do not turn the screwdriver when inserting it between the top case and the bottom case.
This may cause the catches to break.

WIRING METHOD

(1) CONNECTING TO THE REMOTE CONTROLLER

- Connect the 5-core cable from the remote controller.
- The 5-core cable should be connected to the CN2 CONNECTOR or CN1 CONNECTOR on the electrical board on the inside of the top case within the remote controller. (Refer to the figure at the right.)

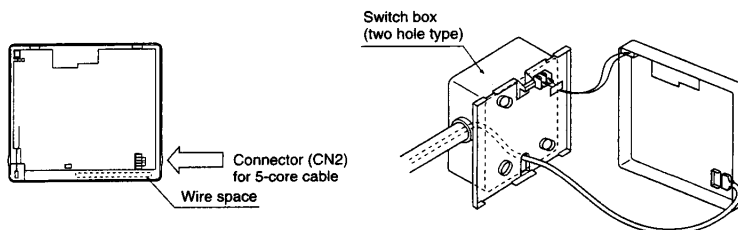
① When using a switch box

- Pass the 5-core cable that is in the electrical wiring tube through the hole of the bottom case, then attach the bottom case onto the switch box. (Refer to the figure at the right.)
- "■" in the top left illustration designates the space for the wire in the remote controller. Pass the 5-core cable through this area and connect it to the timer connector CN1 or CN2.
- After finishing the wiring, install the top case.

② Direct wall mounting

- After the 5-core cable is connected to the CN2 CONNECTOR or CN1 CONNECTOR, take out the 5-core cable through the cutaway in the remote controller. (Refer to the figure at the right.)
- After the wiring is completed, set the top case to the bottom case using the catches.

NOTE : The connector number, which is inside the remote controller, will differ depending on which model is used.
• REMOTE CONTROLLER : CN1
• NETWORK REMOTE CONTROLLER : CN2



REVERSE SIDE OF TOP CASE OF REMOTE CONTROLLER

WHEN USING A SWITCH BOX

(2) CONNECTING TO THE PROGRAM TIMER

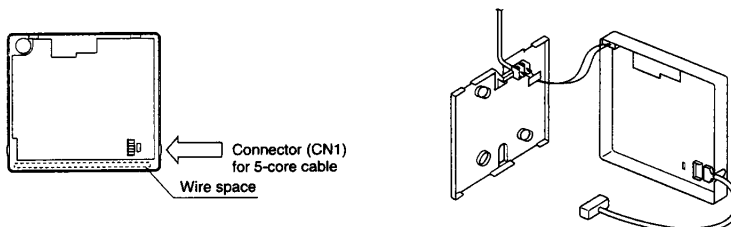
- The 5-core cable should be connected to the CN1 CONNECTOR on the electrical board inside the top case within the program timer. (Refer to the figure at the right.)

① When using a switch box

- The connecting method is the same as with the remote controller.
- "■" designates the space for the wire in the program timer. Connect the 5-core cable to the CN1 CONNECTOR through this marked area.
- After the wiring is completed, set the top case to the bottom case using the catches.

② Direct wall mounting

- The 5-core cable should be connected to the CN1 CONNECTOR on the electrical board inside the top case within the program timer. (Refer to the figure at the right.)
- The 5-core cable should go through the inside of the program timer and come out of the cutaway in the program timer.
- After the wiring is completed, set the top case to the bottom case using the catches.

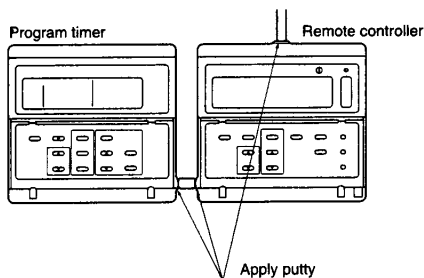


REVERSE SIDE OF TOP CASE OF PROGRAM TIMER

DIRECT WALL MOUNTING

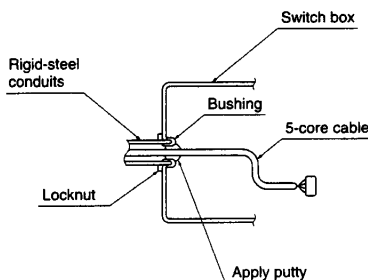
(3) APPLY PUTTY TO THE INCOMING WIRE HOLE TO PREVENT DROPS OF WATER, COCKROACHES, CATERPILLARS ETC. FROM ENTERING

- Apply putty to the cutaway in the top case when the remote controller and the program timer are directly mounted to the wall.
- Apply putty to the space between the switch box and the rigid steel conduits when the remote controller and the program timer are installed to the switch box.



DIRECT WALL MOUNTING

5-CORE CABLE SHOULD BE KEPT OUT OF ELECTRICAL BOARD AND THROUGH AS SHOWN FIGURE AT ABOVE



WHEN USING A SWITCH BOX

This product is designed and intended for use in a residential, commercial or light-industrial environment.
The product at hand is based on the following EU regulations:
Electromagnetic Compatibility Directive 89/336/EEC