| Applicable Model | AE-C |
|---|---|

Air Conditioning Control System - Optional Parts

# Mounting Attachment for Wall Surface Installation

## Installation Manual

**For distribution to dealers and contractors only**

# PAC-YK92TB

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Before installing the product, please read this Installation Manual carefully to ensure proper operation.
Retain this manual for future reference.



WT10528X02

# Manual Download

**http://www.mitsubishielectric.com/ldg/ibim/**

**en** Go to the above website to download manuals, select model name, then choose language.

**de** Besuchen Sie die oben stehende Website, um Anleitungen herunterzuladen, wählen Sie den Modellnamen und dann die Sprache aus.

**fr** Rendez-vous sur le site Web ci-dessus pour télécharger les manuels, sélectionnez le nom de modèle puis choisissez la langue.

**es** Visite el sitio web anterior para descargar manuales, seleccione el nombre del modelo y luego elija el idioma.

**it** Andare sul sito web indicato sopra per scaricare i manuali, selezionare il nome del modello e scegliere la lingua.

**pt** Aceda ao site Web acima indicado para descarregar manuais, seleccione o nome do modelo e, em seguida, escolha o idioma.

**tr** Kılavuzları indirmek için yukarıdaki web sitesine gidin, model adını ve ardından dili seçin.

**ru** Чтобы загрузить руководства, перейдите на указанный выше веб-сайт; выберите название модели, а затем язык.

中<简> 前往上述网站下载手册，选择产品型号，然后选择语言。

# Note

**en** Controller model is abbreviated as "AE-C" in this manual.

**de** Das Steuerungsmodell wird in diesem Handbuch mit „AE-C“ abgekürzt.

**fr** Le modèle de contrôleur est désigné par l’abréviation « AE-C » dans le présent manuel.

**es** El modelo del controlador se abrevia como «AE-C» en este manual.

**it** In questo manuale il modello di unità di controllo è abbreviato in “AE-C”.

**pt** O modelo do controlador é abreviado como "AE-C" neste manual.

**tr** Kumanda birimi modeli bu kılavuzda "AE-C" şeklinde kısaltılmıştır.

**ru** В этом руководстве модель контроллера обозначается сокращенно — «AE-C».

中<简> 本手册中，控制器型号简写为“AE-C”。

# Safety precautions

► Thoroughly read the following safety precautions prior to installation.

► Observe these precautions carefully to ensure safety.

| | |
|---|---|
| ⚠ WARNING | : indicates a hazardous situation which, if not avoided, could result in death or serious injury. |
| ⚠ CAUTION | : indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. |

► After reading this manual, pass the manual on to the end user to retain for future reference.

► The user should keep this manual for future reference and refer to it as necessary. The manual should be made available to those who repair or relocate the product. Make sure that the manual is passed on to any future air conditioning system user.

## ■General precautions

### ⚠ WARNING

To reduce the risk of injury, electric shock, or fire, do not alter or modify the product.

To reduce the risk of injury, keep children away while installing, inspecting, or repairing the product.

### ⚠ CAUTION

To reduce the risk of injury from falling objects, do not place any objects on the product.

To reduce the risk of injury, electric shock, or malfunction, do not touch the edges of the product.

To reduce the risk of injury, do not hold the product by its edges.

To reduce the risk of injury, do not touch burrs of knockout holes.

To reduce the risk of injury, wear protective gear before working on the product.

## ■Precautions for installation

**⚠ WARNING**

**Properly dispose of the packing materials. Plastic bags pose a suffocation hazard to children.**

**Installation work must be performed by the dealer or qualified personnel according to the instructions in the Installation Manual. Improper installation work or installation work performed by the user may cause trouble.**

**Take appropriate safety measures against earthquakes to prevent the product from falling and causing injury.**

**Install the product where the weight of the product can be held. Installation in a place with insufficient strength or improper installation may cause the product to fall, causing injury.**

## ■Precautions for electrical wiring

**⚠ WARNING**

**To reduce the risk of electric shock, malfunction, or fire, seal the cable access holes with putty to prevent dew or water droplets from entering the product.**

## ■Precautions for relocating or repairing the product

**⚠ WARNING**

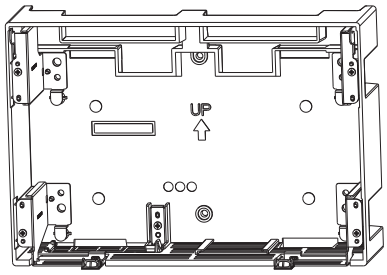
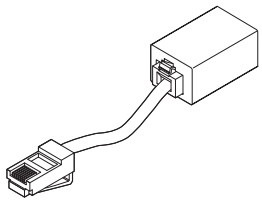
**The product must be relocated or repaired only by qualified personnel. The user must not disassemble or modify the product. Improper installation or repair may result in injury, electric shock, or fire.**

# 1. Parts

## 1-1. Supplied parts

The package contains the following items.

- Transport them to the installation site as packed.

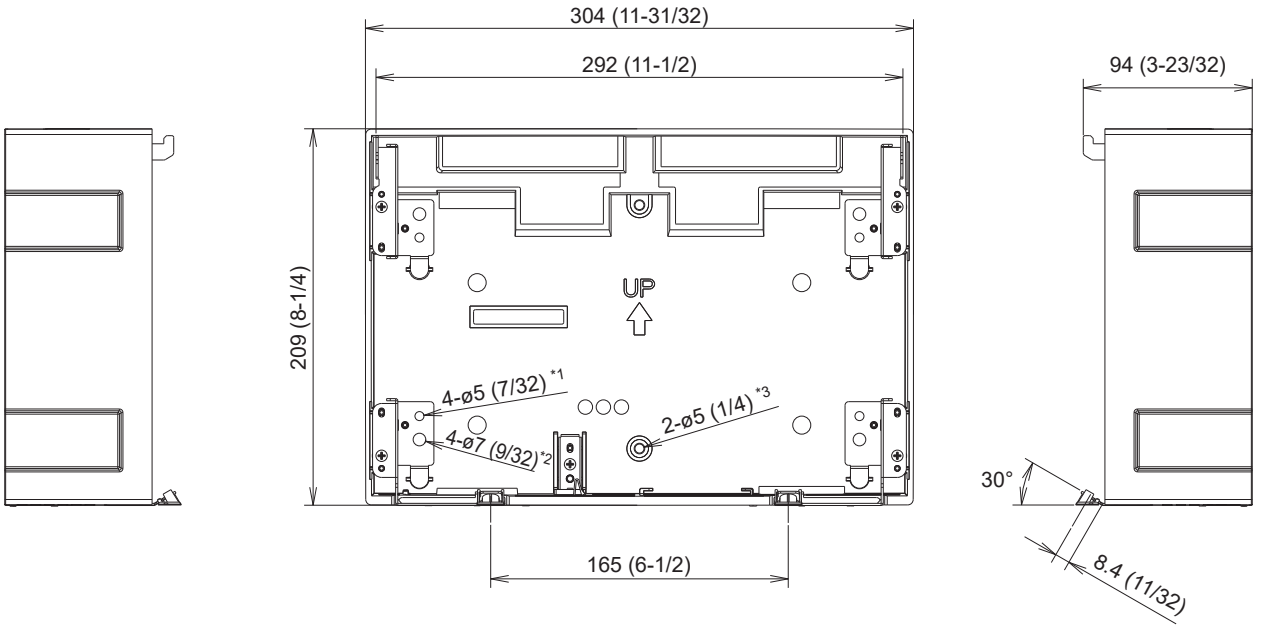
| No. | Item | Shape | Quantity | Remarks |
|---|---|---|---|---|
| D-1 | Mounting attachment for wall-surface installation |  | 1 | —— |
| D-2 | LAN extension cable |  | 1 | —— |
| D-3 | Installation Manual (this manual) | — | 1 | —— |

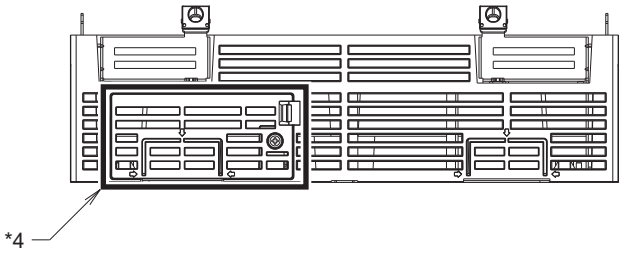
## 1-2. Commercial parts

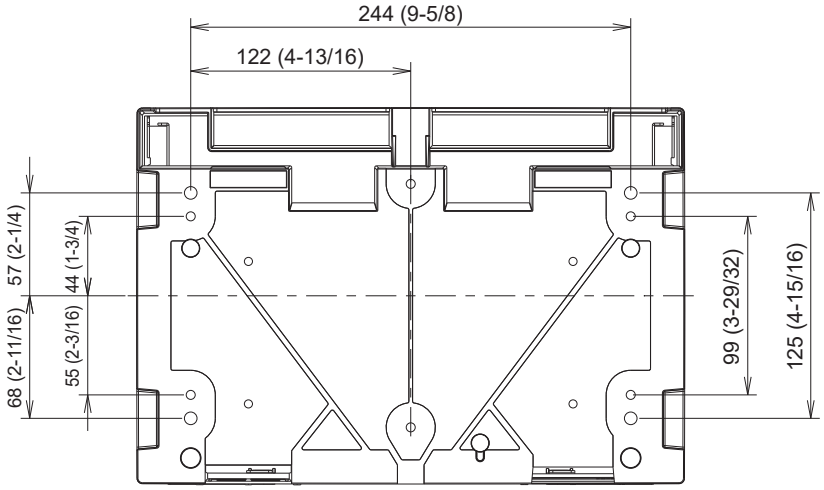
| No. | Item | Shape | Quantity | Remarks |
|---|---|---|---|---|
| S-1 | Screw (for installing the mounting attachment) | Arbitrary (M4) | 6 | Used to install the mounting attachment on a wall, using screws.<br>Choose screws suitable for the material of the wall. |
| S-2 | Screw (for installing the mounting attachment) | Arbitrary (M6) | 4 | Used to install the mounting attachment on a wall, using anchors. |

## 1-3. External dimensions

Unit: mm (in.)

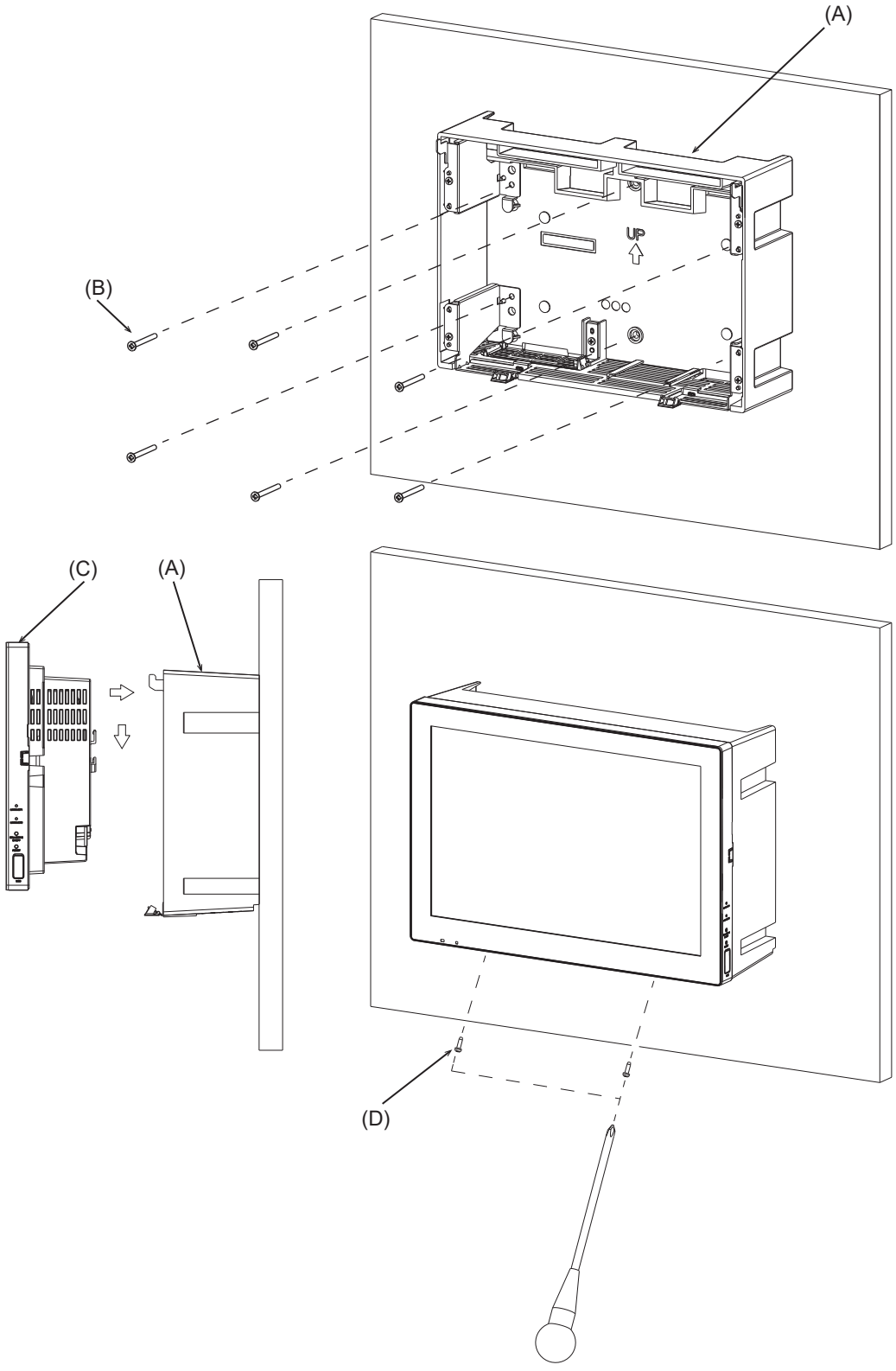



*1 For installation with screws
*2 For installation with anchors
*3 For installation with screws
*4 Service cover

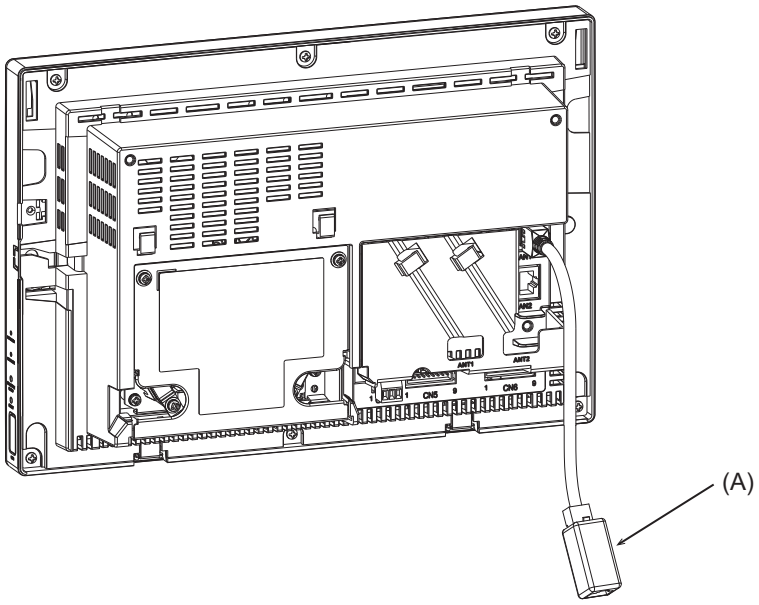
# 2. Overview of installation




(A) Mounting attachment (supplied part D-1)
(B) Screw (for installing the mounting attachment) (commercial part S-1)
(C) AE-C
(D) Roundhead screw (supplied with AE-C)

**Note**

- Leave the LAN extension cable (supplied part D-2) connected to the LAN1 port on the AE-C when no LAN cable is connected to the LAN1 port.




(A) LAN extension cable

# 3. Selecting the installation site

**WARNING**

**Install the product where the weight of the product can be held. Installation in a place with insufficient strength or improper installation may cause the product to fall, causing injury.**

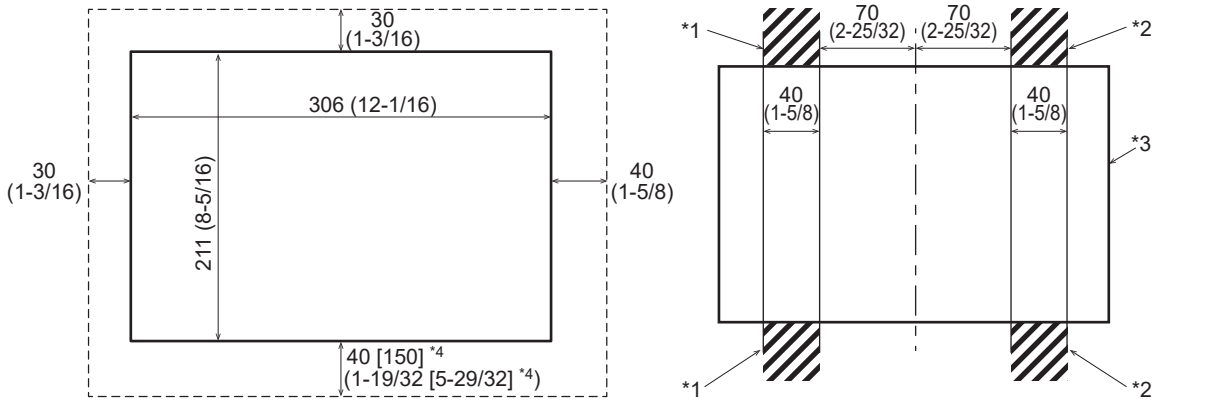
Install the mounting attachment on a wall that can hold the weight of the AE-C and the mounting attachment (total 3.8 kg (9 lbs)).
Do not install the mounting bracket where it is subjected to continuous vibrations, which can cause the connectors to become loose or disconnected.

## 3-1. Installation space

### 3-1-1. Peripheral space

Install the mounting attachment (supplied part D-1) where the space shown below is available.
The amount of space shown in the brackets are required when no LAN cable is connected to the LAN1 port.

Unit: mm (in.)




*1 Signal cable access hole
*2 AC power cable access hole
*3 Outline of a resin casing for wall surface installation
*4 Space required to use the LAN extension cable (supplied part D-2) for servicing

# 4. Installation

**⚠ CAUTION**

**To reduce the risk of injury, electric shock, or malfunction, do not touch the edges of the product.**

**To reduce the risk of injury, do not touch burrs of knockout holes.**

## 4-1. Progress of building construction and construction conditions

None.

## 4-2. Installation methods

Cables can be routed either from the top or bottom of the mounting attachment (supplied part D-1).

**Note**

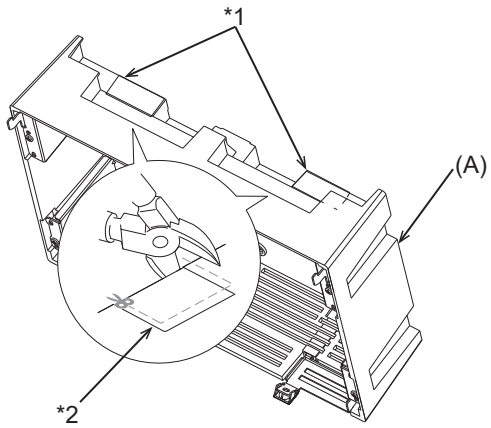
- When routing cables from above, let the cables hang loose behind the AE-C as shown in the figure below to prevent water from running down the cables into the connectors.

Good example Bad example

### 4-2-1. Routing cables from the top of the mounting attachment

**Steps**

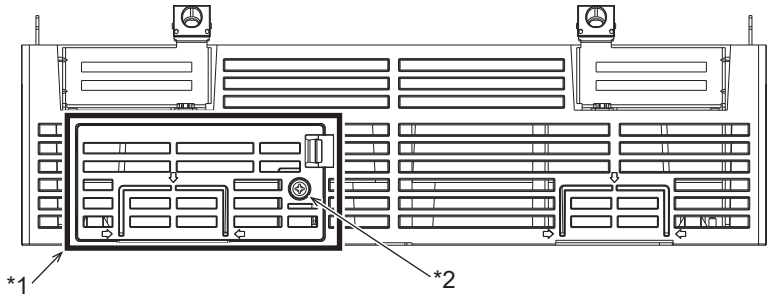
**1.** Cut out the thin-wall parts to make cable access holes.
   - After cutting out the cable access holes, sand the cut edges smooth.




(A) Mounting attachment (supplied part D-1)
*1 Cable access hole
*2 Thin-wall part

**Note**

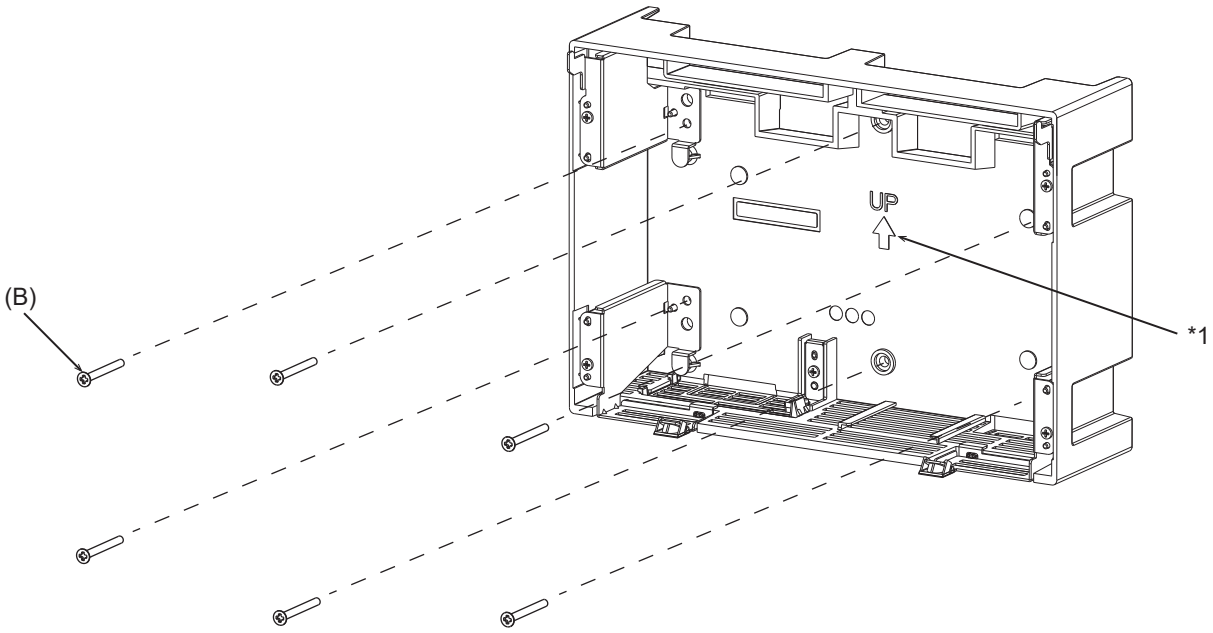
- When no LAN cable is connected to the AE-C, unscrew the screw on the bottom and remove the service cover.




*1 Service cover
*2 Screw

**2.** Install the mounting attachment (supplied part D-1) on a wall.

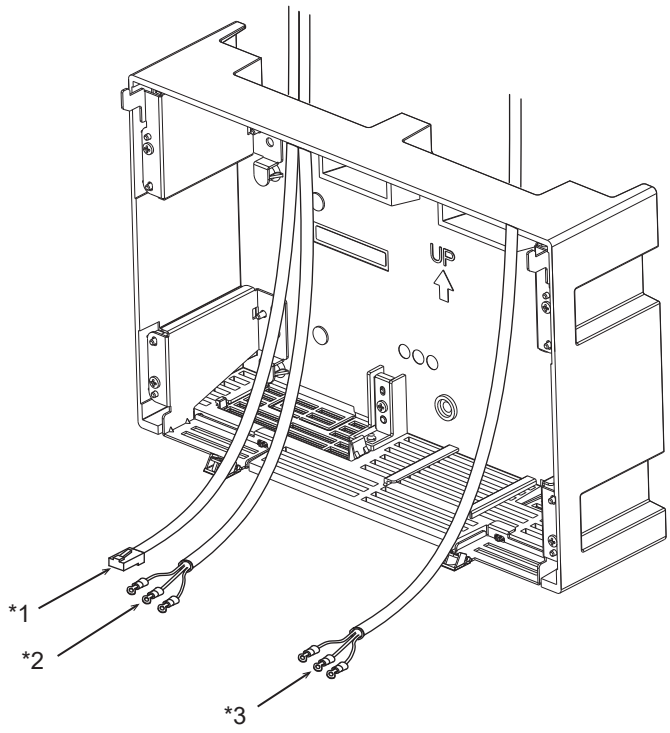
- When anchoring the mounting attachment, use M6 anchors.




(B) Screw (for installing the mounting attachment) (commercial part S-1/S-2)
*1 Orient the mounting attachment according to the UP mark shown inside the mounting attachment.

**3.** Route the cables through the cable access holes.

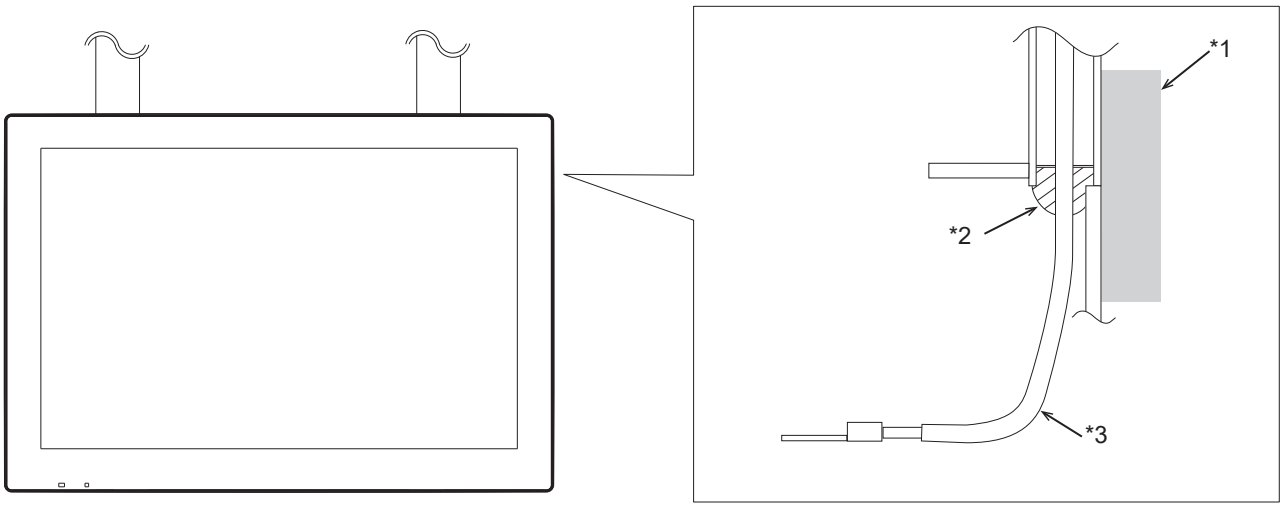
- To prevent malfunction caused by electrical interference noise, do not put the AC power cable together with the M-NET cable or the LAN cable in the same conduit tube.




*1 LAN cable
*2 M-NET transmission cable
*3 AC power cable

**Note**

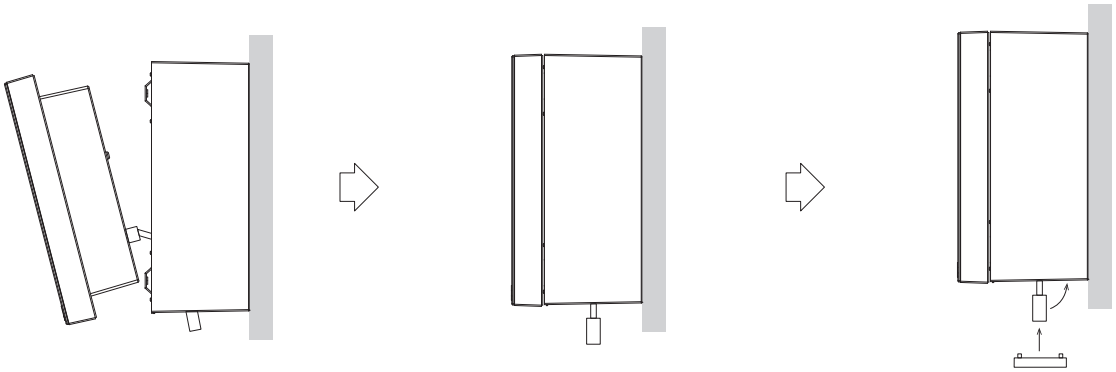
- Seal the gaps in the cable access holes with putty.




*1 Wall
*2 Putty
*3 M-NET transmission cable, AC power cable, etc.

- Adjust the length of the cables so that they fit in the mounting attachment.

- Leave the LAN extension cable (supplied part D-2), which is for maintenance, connected to the LAN1 port on the AE-C when no LAN cable is connected to the LAN1 port.
  Put the LAN extension cable in the mounting attachment as shown below.

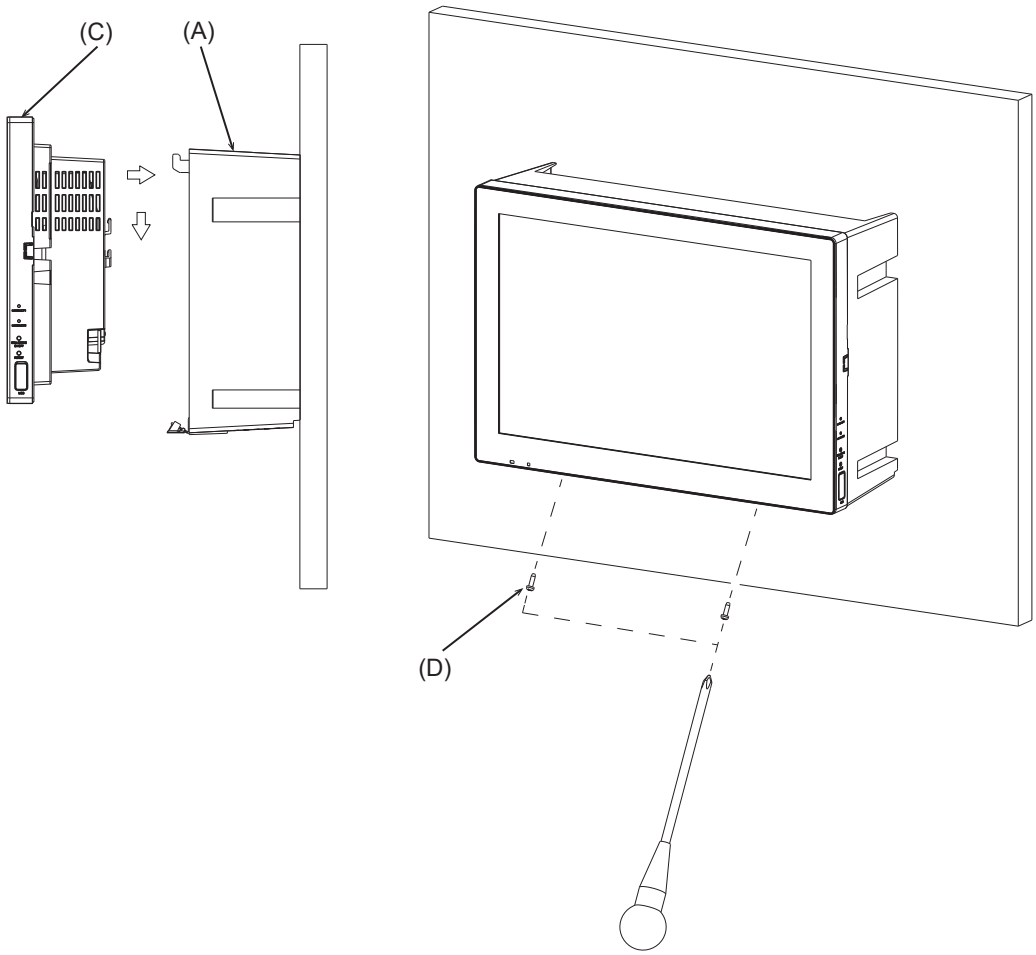


Route the LAN extension cable out of the mounting attachment through the hole of the service cover that has been removed.

Install the AE-C on the mounting attachment.

Put the LAN extension cable in the mounting attachment, and attach the service cover.

**4.** Connect the cables to the AE-C, and install the AE-C on the mounting attachment.
- Hook the top of the AE-C onto the two hooks of the mounting attachment, and slide the AE-C down to temporarily let it hang.
- Fasten the AE-C to the mounting attachment, using two roundhead screws (supplied with the AE-C).

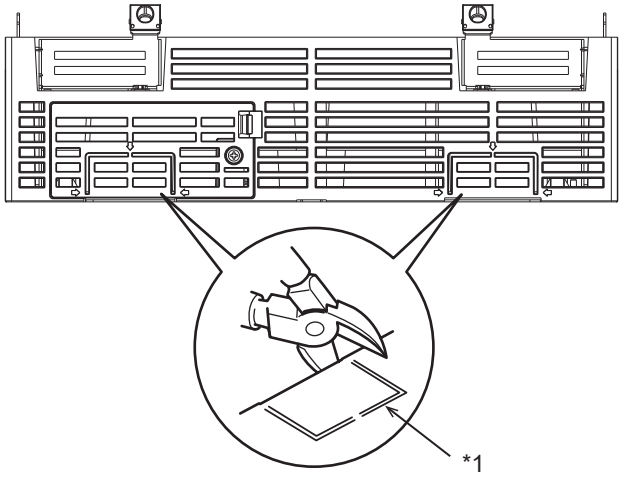



(A) Mounting attachment
(C) AE-C
(D) Roundhead screw

## 4-2-2. Routing cables from the bottom of the mounting attachment

**Steps**

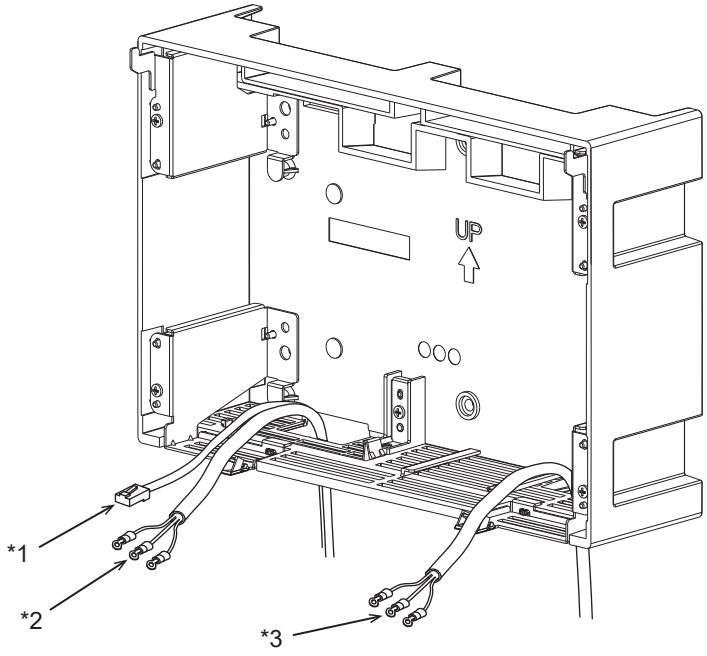
**1.** Cut out the knockout holes of the service cover on the bottom to make cable access holes.
- Unscrew the screw on the bottom, and remove the service cover.
- After cutting out the cable access holes, sand the cut edges smooth.




*1 Knockout hole

**2.** Install the mounting attachment (supplied part D-1) on a wall.
- Refer to step **2** of 4-2-1.

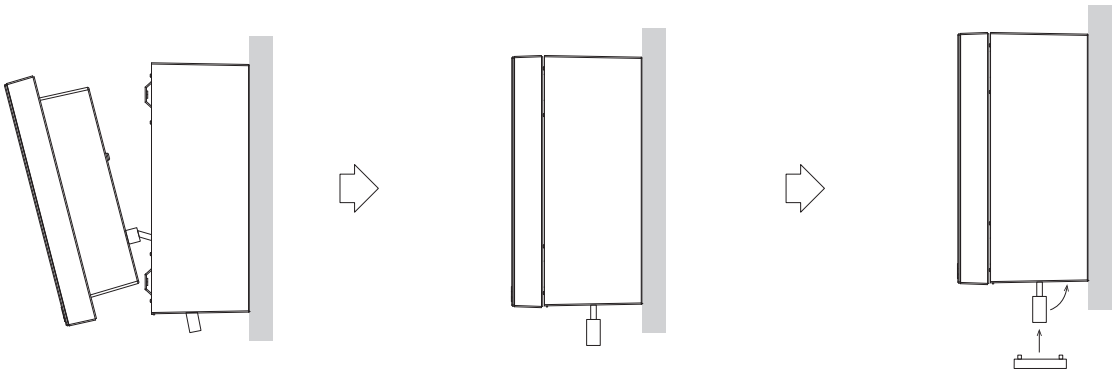
**3.** Route the cables through the cable access holes.
- To prevent malfunction caused by electrical interference noise, do not put the AC power cable together with the M-NET cable or the LAN cable in the same conduit tube.




*1 LAN cable
*2 M-NET transmission cable
*3 AC power cable

**Note**

- Leave the LAN extension cable (supplied part D-2), which is for maintenance, connected to the LAN1 port on the AE-C while no LAN cable is connected to the LAN1 port.
  Put the LAN extension cable in the mounting attachment as shown below.



Route the LAN extension cable out of the mounting attachment through the hole of the service cover that has been removed.

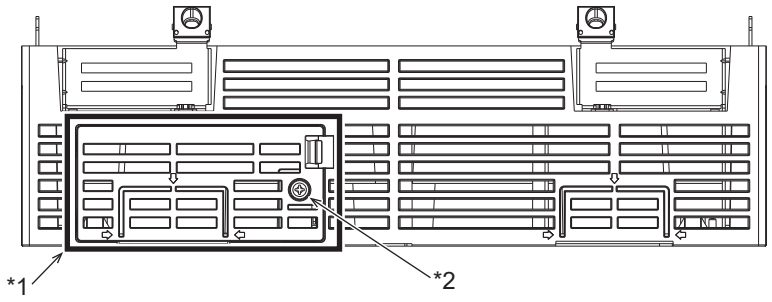
Install the AE-C on the mounting attachment.

Put the LAN extension cable in the mounting attachment, and attach the service cover.

**4.** Connect the cables to the AE-C, and install the AE-C on the mounting attachment.

- Refer to step **4** of 4-2-1.

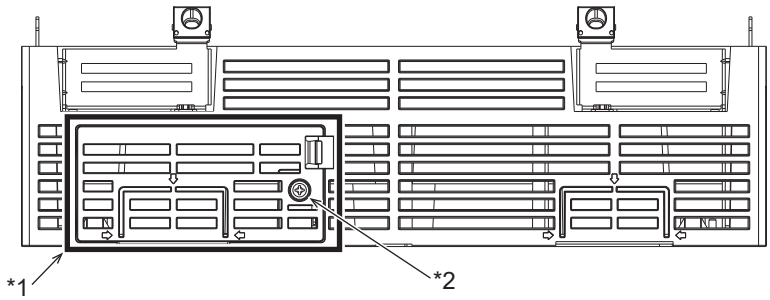
**5.** Attach the service cover.




*1 Service cover
*2 Screw

# 5. Maintenance

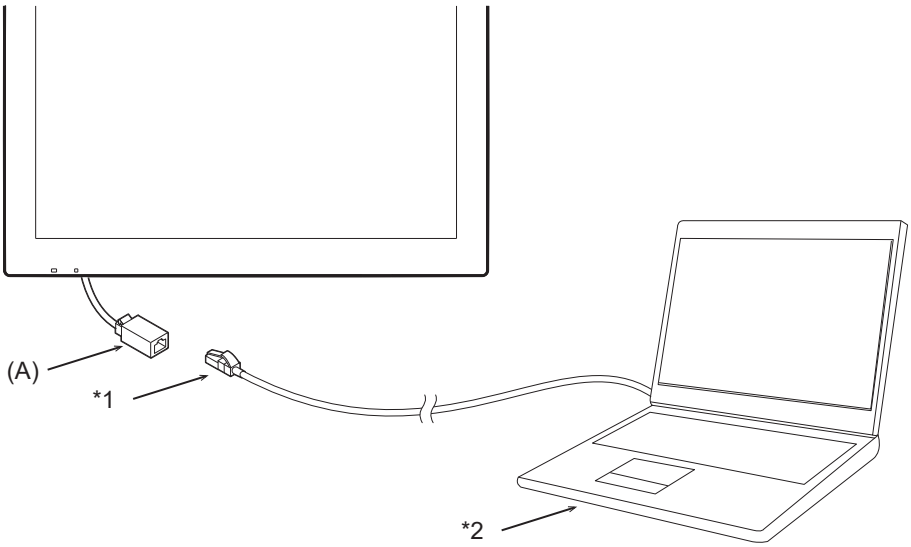
When performing maintenance while no LAN cable is connected to the AE-C, remove the service cover on the bottom, take out the LAN extension cable (supplied part D-2), and connect it to the computer for maintenance.




*1 Service cover
*2 Screw

**Note**

- Because the service cover is easily removed, be careful not to let it fall.




(A) LAN extension cable
*1 LAN cable
*2 Computer for maintenance

# 6. Electrical wiring

Refer to the Installation Manual for the AE-C for details of wiring.

Please be sure to put the contact address/telephone number
on this manual before handing it to the customer.

**MITSUBISHI ELECTRIC CORPORATION**

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