

Mitsubishi Electric Programmable Controller

Renewal Tool Base Adapter

Model

ERNT-AQB38/-AQB35/-AQB32

ERNT-AQB68/-AQB65/-AQB62

ERNT-AQB58/-AQB55/-AQB52

User's Manual



ERNT-AQB38/AQB35/AQB32
ERNT-AQB68/AQB65/AQB62
ERNT-AQB58/AQB55/AQB52

Model	ERNT-AQB38/-AQB35/-AQB32 ERNT-AQB68/-AQB65/-AQB62 ERNT-AQB58/-AQB55/-AQB52
	50EM8557-G(1806)

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Installation Precautions

⚠ WARNING
● Be sure to shut off all phases of the external power supply before performing installation work. Failure to do so could result in electric shock or product damage.

CAUTION

- Use the base adapter in an environment of the general specifications defined in the MELSEC-Q series CPU module user's manual. Failure to do so could lead to electric shock, fire, malfunction or product failure or deterioration.
- Fully secure the base adapter, Q base unit and conversion adapter anchor base using the installation screws, and tighten the installation screws securely within the specified torque range. Failure to do so could cause the product to fall, resulting in damage.

Startup and Maintenance Precautions

⚠ WARNING
● Be sure to shut off all phases of the external power supply before cleaning and retightening the installation screws. Failure to do so could lead to electric shock. Excessively tightened screws could result in damage, causing the product to fall, a short circuit or product malfunction.

Disposal Precautions

⚠ CAUTION
● When disposing of the product, treat it as industrial waste.

【安装注意事项】

⚠ 警告
● 必须将外部供电电源全相断开后再进行安装作业等。如果未全相断开，可能会导致触电或产品损坏。

⚠ 注意

- 应在MELSEC-Q系列CPU模块用户手册中记载的一般规格环境下使用基板适配器。如果在一般规格范围以外的环境中使用，可能导致触电、火灾、误动作、产品的损坏或劣化。
- 基板适配器及Q系列基座单元、转换适配器固定台应通过安装螺栓切实地加以固定，安装螺栓应在规定的扭矩范围内切实地拧紧。可能因掉落而导致破损。

【启动和维护注意事项】

⚠ 警告
● 在清扫或重新紧固端子螺栓时，必须将外部供应全相断开后再进行。如果未全相断开，可能会导致触电。如果螺栓拧得过紧，可能会导致掉落、短路或误动作。

【废弃注意事项】

⚠ 注意
● 废弃时请将本产品作为工业废弃物处理。

3. Mounting and Installation

3.1 Handling Precautions

- (1) Do not drop or apply heavy impact to the base adapter. Doing so could result in damage.
- (2) Fully secure the Q base unit and conversion adapter anchor base using the installation screws, and securely tighten the screws within the specified torque range. Loose screws could cause a short circuit, fire or malfunction.

Screw Location	Tightening Torque Range
Q base unit installation screw (M4 screw)	139 to 189N·cm
Conversion adapter anchor base installation screw (M4 screw)	

3.2 Installation Environment

For details of the installation environment, refer to the user's manual of the MELSEC-Q series CPU module to be used.

● SAFETY PRECAUTIONS ●

(Always read these precautions prior to use.)

Before using this product, please read this manual carefully and pay full attention to safety to ensure that the product is used correctly. The precautions presented in this manual are concerned with this product only. For Programmable Controller system safety precautions, refer to the user's manual of the MELSEC-Q series CPU module to be used.

In this manual, the safety precautions are ranked as "WARNING" and "CAUTION".

⚠ WARNING	Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.
⚠ CAUTION	Indicates that incorrect handling may cause hazardous conditions, resulting in medium or minor injury and/or property damage.

Note that failure to observe the ⚠ CAUTION level instructions may lead to a serious consequence according to the circumstances. Always follow the precautions of both levels because they are important to personal safety.

Please keep this manual in an easy-to-access location for future reference, and be sure to provide the manual to the end user.

● 安全注意事项 ●

(使用前请务必阅读)

使用本产品时，请仔细阅读本手册，并充分注意安全，正确地使用产品。

本手册中标注的注意事项仅记载了与本产品相关的内容。关于可编程控制器系统的安全注意事项，请参阅所使用的MELSEC-Q系列CPU模块的用户手册。

在本●安全注意事项●中，安全注意事项的等级分为「警告」和「注意」。

⚠ 警告	表示错误操作可能造成危险后果，引起死亡或重伤事故。
⚠ 注意	表示错误操作可能造成危险后果，引起中度伤害、轻伤及财产损失。

另外，根据情况不同，即使是⚠注意中记载的事项，也可能引发严重后果。不管哪个记载的都是非常重要的内容，请务必遵守。

请妥善保管本手册，以便需要时取阅，并请本手册交给最终用户。

1. Overview

This manual describes the Mitsubishi Electric Programmable Controller renewal tool base adapter (ERNT-AQB38, ERNT-AQB35, ERNT-AQB32, ERNT-AQB68, ERNT-AQB65, ERNT-AQB62, ERNT-AQB58, ERNT-AQB55, ERNT-AQB52). The base adapter is a product that enables MELSEC-Q series installation using the MELSEC-A series installation holes. (Additional hole machining not required) Once you have opened the packaging, verify that it contains the following products.

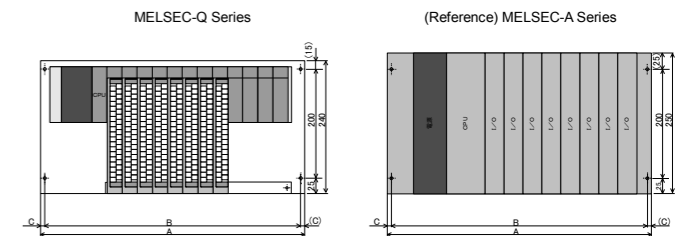
Product	Quantity
Base adapter	1
Q base unit installation screws (M4 x 8)	4

2. Product Specifications

Base Adapter Model	Specifications			Weight (g)
	MELSEC-A Series Compatible Module	MELSEC-Q Series Compatible Module	Installable Conversion Adapter Anchor Base	
ERNT-AQB38	A38B A38B-UL A38B-E A38HB A38HBEU	Q312B Q38B	ERNT-AQF12 ERNT-AQF8	970
ERNT-AQB68	A68B A68B-UL	Q612B Q68B	ERNT-AQF8	930
ERNT-AQB58	A58B A58B-UL	Q68B		870
ERNT-AQB35	A35B A35B-UL A35B-E	Q38B Q35B	ERNT-AQF8 ERNT-AQF5	795
ERNT-AQB65	A65B A65B-UL	Q68B Q65B Q55B	ERNT-AQF5	790
ERNT-AQB55	A55B A55B-UL	Q65B Q55B		655
ERNT-AQB32	A32B A32B-UL A32B-E	Q33B	ERNT-AQF3	675
ERNT-AQB62	A62B	Q63B Q52B		650
ERNT-AQB52	A52B	Q52B		505

4. Installation Dimensions

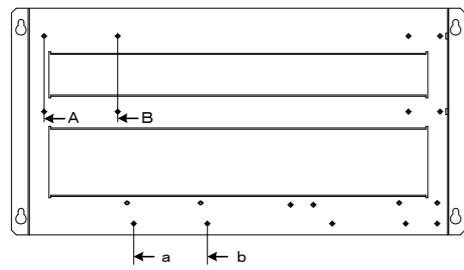
- (1) The width dimension is smaller than that of the MELSEC-A series.
- (2) The base adapter installation holes (4 locations) have the same installation dimensions as those of the MELSEC-A series base unit. There is no need for additional screw hole machining on the control panel.



Base Adapter Model	A	B	C	MELSEC-A Series Base Unit Model	A	B	C
ERNT-AQB38	480	460	10	A38B(-UL/-E) A38HB(EU)	480	460	10
ERNT-AQB68	466	446	10	A68B(-UL)	466	446	10
ERNT-AQB58	411	391	10	A58B(-UL)	411	391	10
ERNT-AQB35	382	362	10	A35B(-UL/-E)	382	362	10
ERNT-AQB65	352	332	10	A65B(-UL)	352	332	10
ERNT-AQB55	297	277	10	A55B(-UL)	297	277	10
ERNT-AQB32	247	227	10	A32B(-UL/-E)	247	227	10
ERNT-AQB62	238	218	10	A62B	238	218	10
ERNT-AQB52	183	163	10	A52B	183	163	10

5. Q Base Unit and Conversion Adapter Anchor Base Installation Locations

5.1 ERNT-AQB38

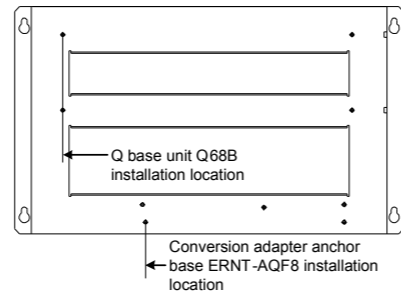


Conversion Adapter Anchor Base	ERNT-AQF12	ERNT-AQF8
Q312B	A	A
	a	a
Q38B	Combination not possible	B
		b

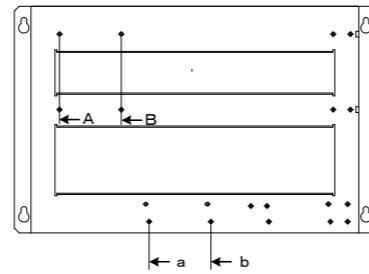
Upper half : Q base unit installation location

Lower half : Conversion adapter anchor base screw tightening location

5.3 ERNT-AQB58



5.4 ERNT-AQB35

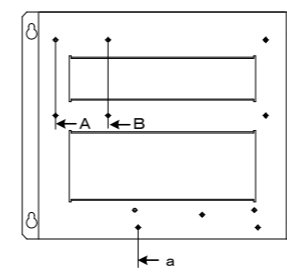


Conversion Adapter Anchor Base	ERNT-AQF8	ERNT-AQF5
Q38B	A	A
	a	a
Q35B	Combination not possible	B
		b

Upper half : Q base unit installation location

Lower half : Conversion adapter anchor base screw tightening location

5.6 ERNT-AQB55

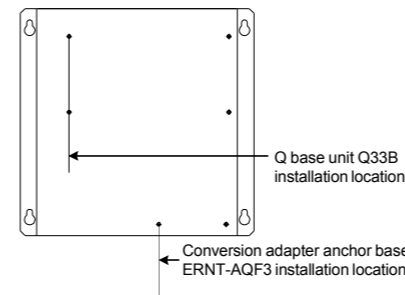


Conversion Adapter Anchor Base	ERNT-AQF5
Q65B	A
	a
Q55B	B
	a

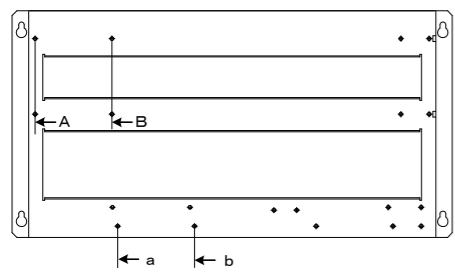
Upper half : Q base unit installation location

Lower half : Conversion adapter anchor base screw tightening location

5.7 ERNT-AQB32



5.2 ERNT-AQB68

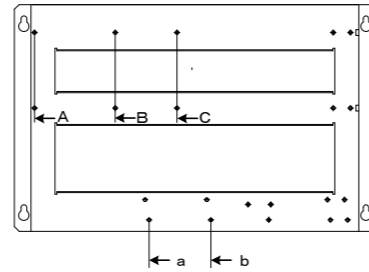


Conversion Adapter Anchor Base	ERNT-AQF12	ERNT-AQF8
Q612B	A	A
	a	a
Q68B	Combination not possible	B
		b

Upper half : Q base unit installation location

Lower half : Conversion adapter anchor base screw tightening location

5.5 ERNT-AQB65

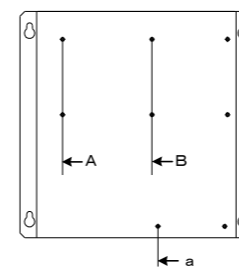


Conversion Adapter Anchor Base	ERNT-AQF8	ERNT-AQF5
Q68B	A	A
	a	a
Q65B	Combination not possible	B
		b
Q55B	Combination not possible	C
		b

Upper half : Q base unit installation location

Lower half : Conversion adapter anchor base screw tightening location

5.8 ERNT-AQB62

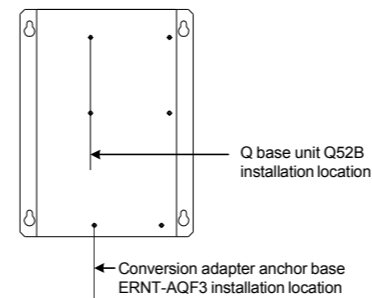


Conversion Adapter Anchor Base	ERNT-AQF3
Q63B	A
	a
Q52B	B
	a

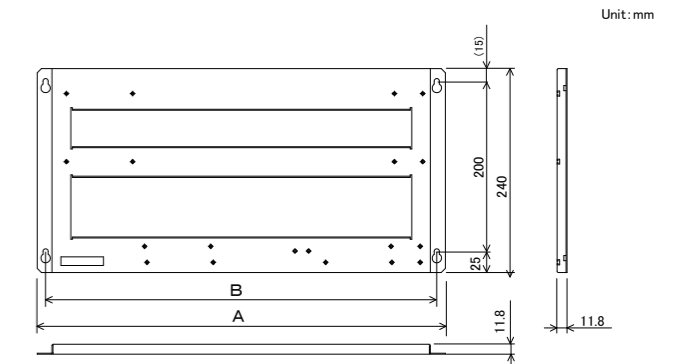
Upper half : Q base unit installation location

Lower half : Conversion adapter anchor base screw tightening location

5.9 ERNT-AQB52



6. External Dimensions



Base Adapter Model	A	B
ERNT-AQB38	480	460
ERNT-AQB68	466	446
ERNT-AQB58	411	391
ERNT-AQB35	382	362
ERNT-AQB65	352	332
ERNT-AQB55	297	277
ERNT-AQB32	247	227
ERNT-AQB62	238	218
ERNT-AQB52	183	163

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MELSEC is a registered trademark of Mitsubishi Electric Corporation in Japan.

Product Warranty Details

Please confirm the following product warranty details prior to product use.

Gratis Warranty Terms and Gratis Warranty Range

If any fault or defect (hereinafter referred to as "Failure") attributable to Mitsubishi Electric Engineering Company Limited (hereinafter referred to as "MEE") should occur within the gratis warranty period, MEE shall repair the product free of charge via the distributor from whom you made your purchase.

■ Gratis Warranty Period

The gratis warranty period of this product shall be one (1) year from the date of purchase or delivery to the designated place.
Note that after manufacture and shipment from MEE, the maximum distribution period shall be six (6) months, and the gratis warranty period after manufacturing shall be limited to eighteen (18) months.
In addition, the gratis warranty period for repaired products shall not exceed the gratis warranty period established prior to repair.

■ Gratis Warranty Range

The gratis warranty range shall be limited to normal use based on the usage conditions, methods and environment, etc., defined by the terms and precautions, etc., given in the instruction manual, user's manual and caution labels on the product.

Warranty Period after Discontinuation of Production

- MEE shall offer product repair services (fee applied) for seven (7) years after production of the product has been discontinued. Discontinuation of production shall be reported via distributors.
- Product supply (including spare parts) is not possible after production has been discontinued.

Exclusion of Opportunity Loss and Secondary Loss from Warranty Liability

Regardless of the gratis warranty period, MEE shall not be liable for compensation for damages arising from causes not attributable to MEE, opportunity losses or lost profits incurred by the user due to Failures of MEE products, damages or secondary damages arising from special circumstances, whether foreseen or unforeseen by MEE, compensation for accidents, compensation for damages to products other than MEE products, or compensation for other work carried out by the user.

Changes in Product Specifications

The specifications given in the catalogs, manuals and technical documents are subject to change without notice.

This document is a new publication, effective June 2018. Specifications are subject to change without notice.