Panasonic INSTRUCTION MANUAL

Universal Sensor Mounting Stand

Horizontal mouting type | Vertical mounting type

MS-AJ1□ **MS-AJ2□**

MJE-MSAJ1 No.0035-06V

Thank you very much for purchasing Panasonic products. Please read this Instruction Manual carefully and thoroughly for the correct and optimum use of this product. Kindly keep this manual in a convenient place for quick reference.

1 OUTLINE

- This product can fix **CX-400** series, **EQ-20** series, **EX-40** series, reflectors (**RF-210**, **RF-220**, and **RF-230**), and fibers (**FD-L51**, **FD-L52**, **FD-L53**, **FD-L54**, and M3/M4/M6 threaded head fiber) at any angle or position.
- Two types of the mounting stand, **MS-AJ1□** which can be mounted on a horizontal surface and **MS-AJ2□** which can be mounted on a vertical surface, are available.

2 PART COMPOSITION

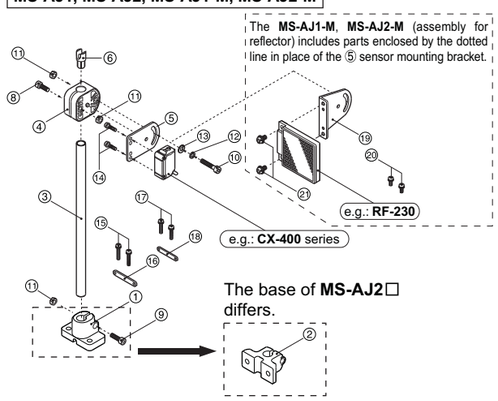
No.	Designation \ Type / Model No.	Assembly sets				Components								
		MS-AJ1 **MS-AJ2** Basic assembly	**MS-AJ1-A** **MS-AJ2-A** Lateral arm assembly	**MS-AJ1-M** **MS-AJ2-M** Assembly for reflector	**MS-AJ1-F** **MS-AJ2-F** Assembly for fiber	**MS-AJS** Sensor mounting unit	**MS-AJR** Reflector mounting unit	**MS-AJ-R1** Reflector mounting bracket	**MS-AJD** Fiber mounting unit	**MS-FD-1** Fiber mounting bracket	**MS-AJL** Arm joint unit	**MS-AJ1B** **MS-AJ2B** (Base unit)	**MS-AJG** (Cable guide)	**MS-AJP** [Arm (Pipe)]
①	Base for horizontal mounting (Accessory for **MS-AJ1□**)	1	1	1	1	–	–	–	–	–	–	1	–	–
②	Base for vertical mounting (Accessory for **MS-AJ2□**)	1	1	1	1	–	–	–	–	–	–	1	–	–
③	Arm (Pipe)	1	2	1	2	–	–	–	–	–	–	–	–	1
④	Attachment	1	1	1	1	1	1	–	1	–	–	–	–	–
⑤	Sensor mounting bracket	1	1	–	–	1	–	–	–	–	–	–	–	–
⑥	Cable guide	1	2	–	2	–	–	–	–	–	–	–	1	–
⑦	Arm joint	–	1	–	1	–	–	–	–	–	1	–	–	–
⑧	M4 (length 12mm) hexagon-socket-head bolt (Drilube applied product)	1	3	1	3	1	1	–	1	–	2	–	–	–
⑨	M4 (length 15mm) hexagon-socket-head bolt (Drilube applied product)	1	1	1	1	–	–	–	–	–	–	1	–	–
⑩	M4 (length 22mm) hexagon-socket-head bolt	1	1	1	1	1	1	–	1	–	–	–	–	–
⑪	M4 nut	3	5	3	5	2	2	–	2	–	2	1	–	–
⑫	M4 spring washer	1	1	1	1	1	1	–	1	–	–	–	–	–
⑬	M4 flat washer	1	1	1	1	1	1	–	1	–	–	–	–	–
⑭	M3 (length 14mm) screw with washers for **CX-400** series	2	2	–	–	2	–	–	–	–	–	–	–	–
⑮	M3 (length 18mm) screw with washers for **EQ-20** series	2	2	–	–	2	–	–	–	–	–	–	–	–
⑯	Auxiliary mounting plate for **EQ-20** series	1	1	–	–	1	–	–	–	–	–	–	–	–
⑰	M3 (length 16mm) screw with washers for **EX-40** series	2	2	–	–	2	–	–	–	–	–	–	–	–
⑱	Auxiliary mounting plate for **EX-40** series	1	1	–	–	1	–	–	–	–	–	–	–	–
⑲	Reflector mounting bracket	–	–	1	–	–	1	1	–	–	–	–	–	–
⑳	M3 (length 8mm) screw with washers for **RF-220**	–	–	2	–	–	2	2	–	–	–	–	–	–
㉑	M4 (length 8mm) screw with washers for **RF-230**	–	–	2	–	–	2	2	–	–	–	–	–	–
㉒	Fiber mounting bracket	–	–	–	1	–	–	–	1	1	–	–	–	–

Note: The numbers shown in the table adove indicate the quantities of the respective parts.

3 ASSEMBLY

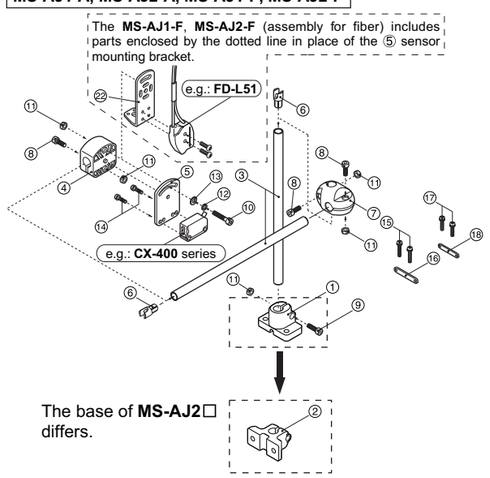
● Assembly diagram

MS-AJ1, MS-AJ2, MS-AJ1-M, MS-AJ2-M



Note: The assembly for reflector (**MS-AJ□-M**) does not contain the ⑥ cable guide.

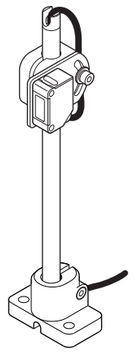
MS-AJ1-A, MS-AJ2-A, MS-AJ1-F, MS-AJ2-F



Note: To adjust the ⑦ arm joint, loosen both the ⑧ M4 (length 12mm) hexagon-socket-head bolts.

● Mounting example

・The below figure shows the **CX-400** series on **MS-AJ1**.

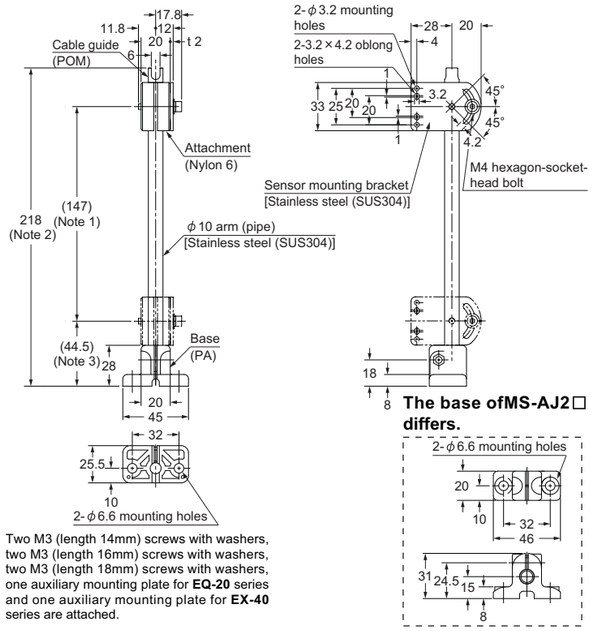


4 CAUTIONS

- The tightening torque of the attached M4 hexagon-socket-head bolts (⑧, ⑨, and ⑩ in **3 ASSEMBLY**) should be 1.2N·m or less.
- To mount the stand on your equipment, use M6 screws. The tightening torque should be 2N·m or less.
  (Please arrange the M6 screws separately.)
  Take care that if excessive torque is applied, the products may get damaged.
- When using the stand, take care that excess vibration is not applied to the sensor.
- Do not apply excess stress on any part of the stand.
- Do not thread the fiber cable into the pipe when the fiber head is mounted on **MS-AJ1-F**, **MS-AJ2-F**.
- Refer to the instruction manual attached to each product for details of **CX-400** series, **EQ-20** series, **EX-40** series or fibers.

5 DIMENSIONS (Unit: mm)

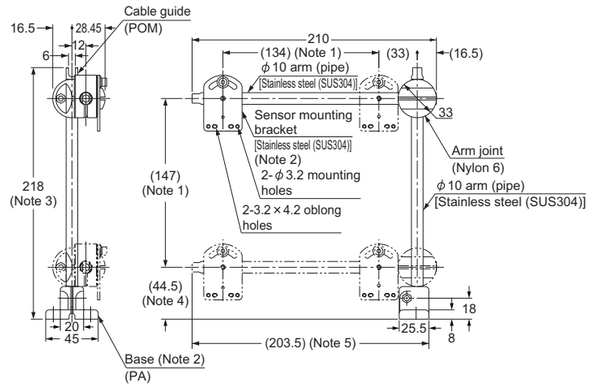
● MS-AJ1, MS-AJ2 (Basic assembly)



Two M3 (length 14mm) screws with washers, two M3 (length 16mm) screws with washers, two M3 (length 18mm) screws with washers, one auxiliary mounting plate for **EQ-20** series and one auxiliary mounting plate for **EX-40** series are attached.

Notes: 1) The dimensions in the brackets indicate the adjustable range of the movable part.
2) This value is 210mm for **MS-AJ2**.
3) This value is 36.5mm for **MS-AJ2**.

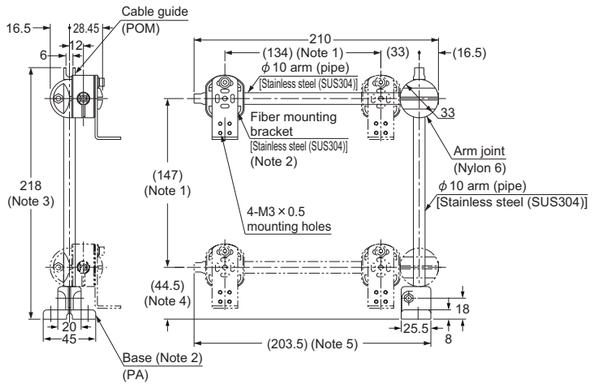
● MS-AJ1-A, MS-AJ2-A (Lateral arm assembly)



Two M3 (length 14mm) screws with washers, two M3 (length 16mm) screws with washers, two M3 (length 18mm) screws with washers, one auxiliary mounting plate for **EQ-20** series and one auxiliary mounting plate for **EX-40** series are attached.

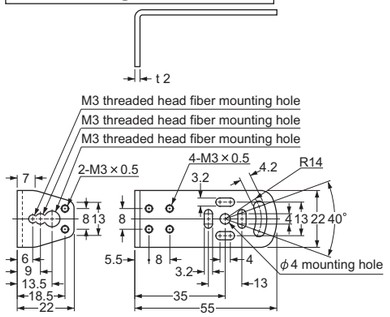
Notes: 1) The dimensions in the brackets indicate the adjustable range of the movable part.
2) Refer to **MS-AJ1**, **MS-AJ2** (basic assembly) for the assembly diagram with the base or sensor mounting bracket.
3) This value is 210mm for **MS-AJ2-A**.
4) This value is 36.5mm for **MS-AJ2-A**.
5) This value is 208.5mm for **MS-AJ2-A**.

● MS-AJ1-F, MS-AJ2-F (Assembly for fiber)



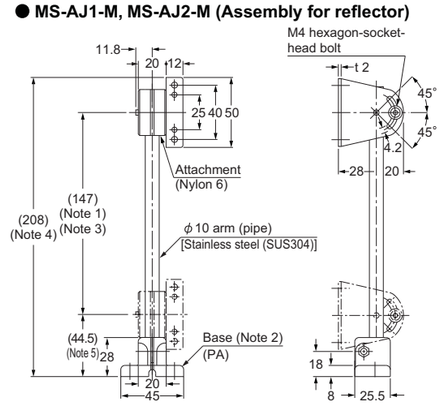
Notes: 1) The dimensions in the brackets indicate the adjustable range of the movable part.
2) Refer to **MS-AJ1**, **MS-AJ2** (basic assembly) for the assembly diagram with the base.
3) This value is 210mm for **MS-AJ2-F**.
4) This value is 36.5mm for **MS-AJ2-F**.
5) This value is 208.5mm for **MS-AJ2-F**.

Fiber mounting bracket / MS-FD-1



Material: Stainless steel (SUS304)

● MS-AJ1-M, MS-AJ2-M (Assembly for reflector)



Two M3 (length 8mm) screws with washers and two M4 (length 8mm) screws with washers are attached.

Notes: 1) The dimensions in the brackets indicate the adjustable range of the movable part.
2) Refer to **MS-AJ1**, **MS-AJ2** (basic assembly) for the assembly diagram with the base.
This value is 143.5mm for **MS-AJ2-M**.
This value is 200mm for **MS-AJ2-M**.
This value is 40mm for **MS-AJ2-M**.

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