

NOTICE DURING INSTALLATION



Warning

Warning that causes injury or accident and develops into harm to the operator.
Do not do these things described here.

In the case of carriage

- When you carry the instrument, check that there is no looseness at the fixed bolt on the guide plate. There may be fears of disassembly of the instrument or falling down of accessories.
- It's strictly prohibited from lifting up the load cell cable, when you carry the instrument. There may be fears of cutting off the cable or falling down of the instrument.

Location to install

- When you install the instrument, be sure to work with full considerations on safety.
- Use the instrument where the temperature/humidity specifies within the range as follows:

Environmental temperature: -10°C to 70°C

Environmental humidity: Less than 85%RH

- When you install, tighten the bolts securely with consideration on deflection stay. If you neglect, there may be fears of deterioration in the specifications for the instrument.
- Don't weld the plate section of the instrument on the structures (beam, bracket and so on) together directly. There may be the fear of deterioration in the specifications for the instrument.
- Protect the load cell cable with the piping materials. Due to external injury, chemicals and washing, there may be deterioration in insulation or cutting off the cable by the deterioration of cover.
- The clearance hole should be prepared for the bracket at the turnover preventing device of the instrument.
- Be sure to keep the instruction manual for the instrument, and also all of the removed parts at hand. They will become necessary when maintenance is required.

Record of revision

Data	Instruction No.	Contents
Oct,2012	DRW.EN293-1002	First version

Each name

Guide plate fixed bolts (4pcs)
Hexagon socket head cap screw
M6x12 [1][2]
M8x16 [3]

Guide plate (2pcs)
※ Remove them after installation is over.
Since the joint bar is installed with no load applied, there is a role as a guide.

Bearing plate

Load cell
(Sold separately)

Load cell pin

Support part
(Top plate)

Top plate

Rod end

Base plate

Rod end

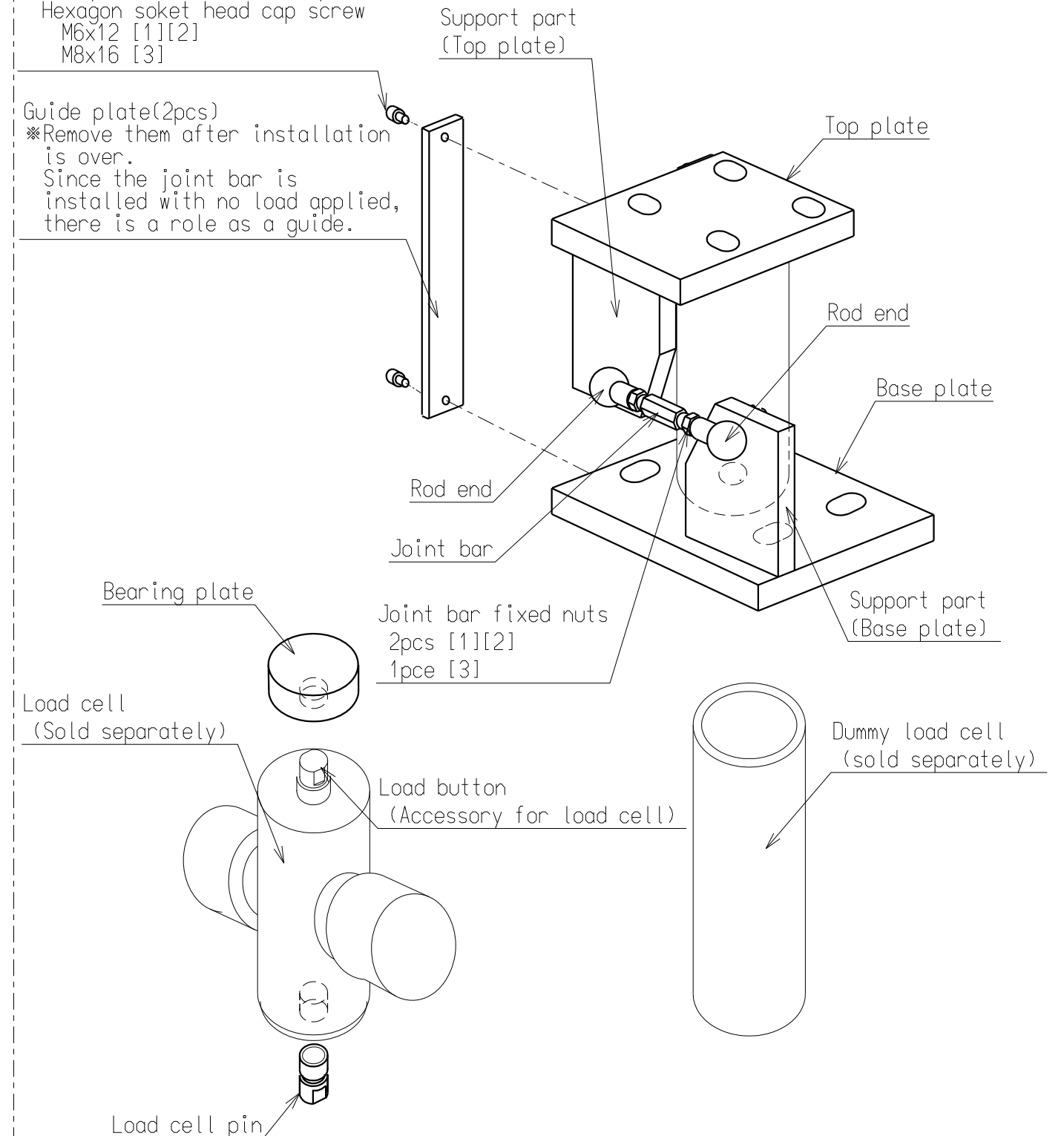
Joint bar

Joint bar fixed nuts
2pcs [1][2]
1pc [3]

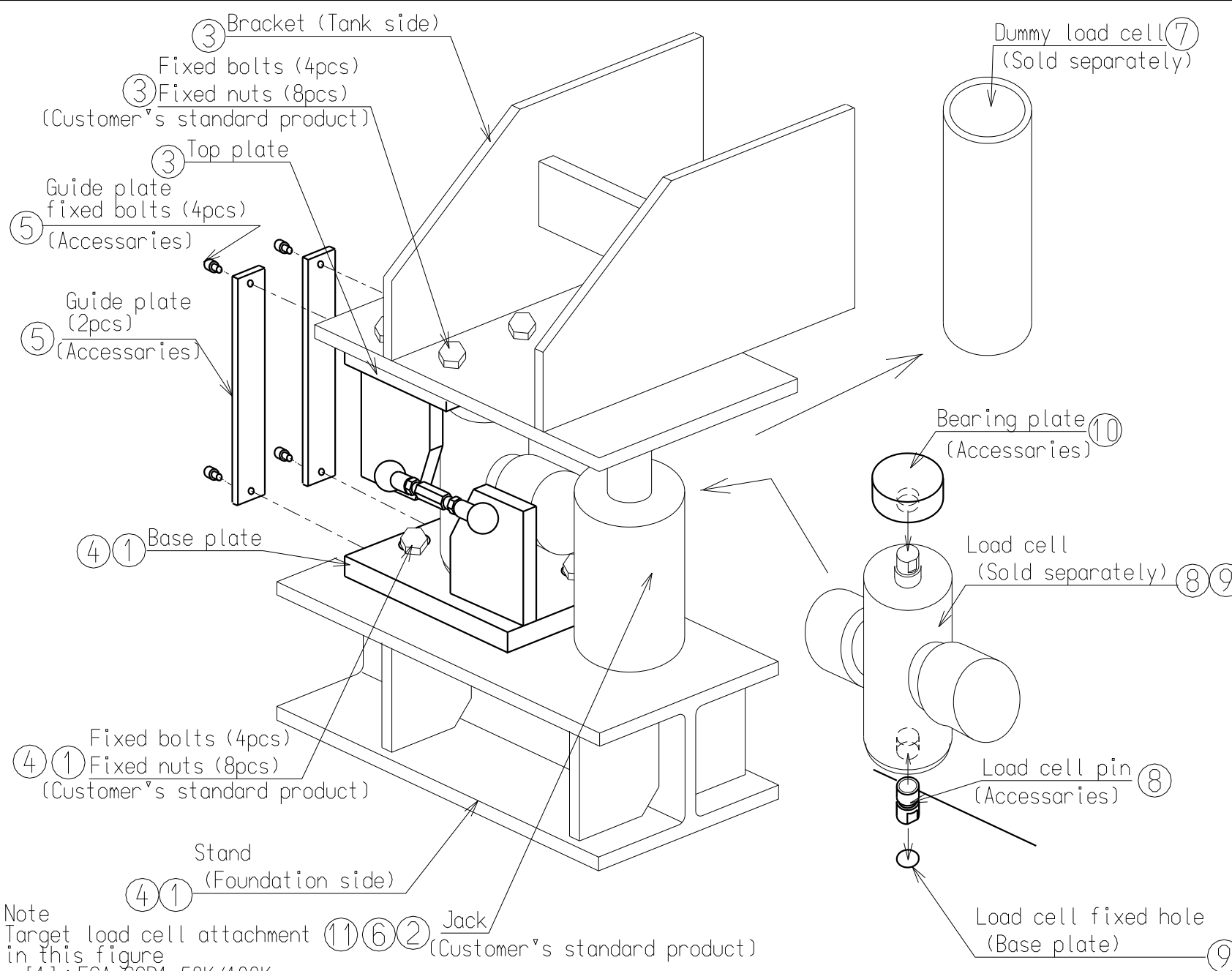
Support part
(Base plate)

Load button
(Accessory for load cell)

Dummy load cell
(sold separately)

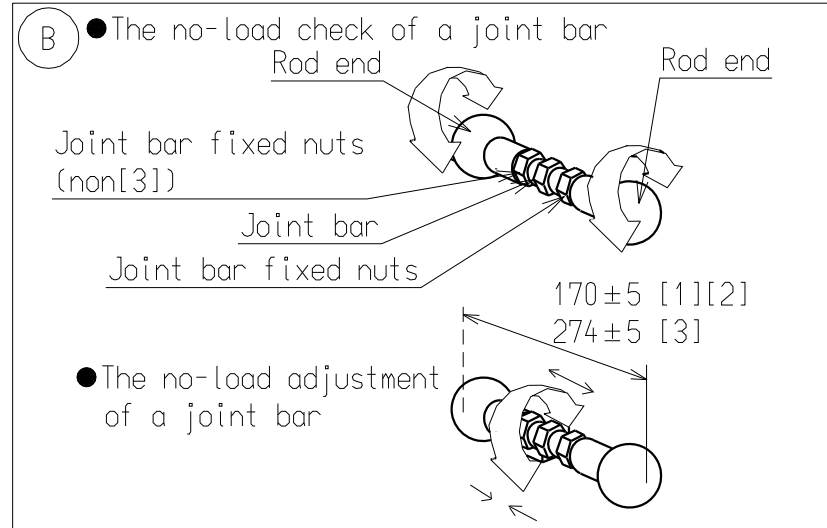
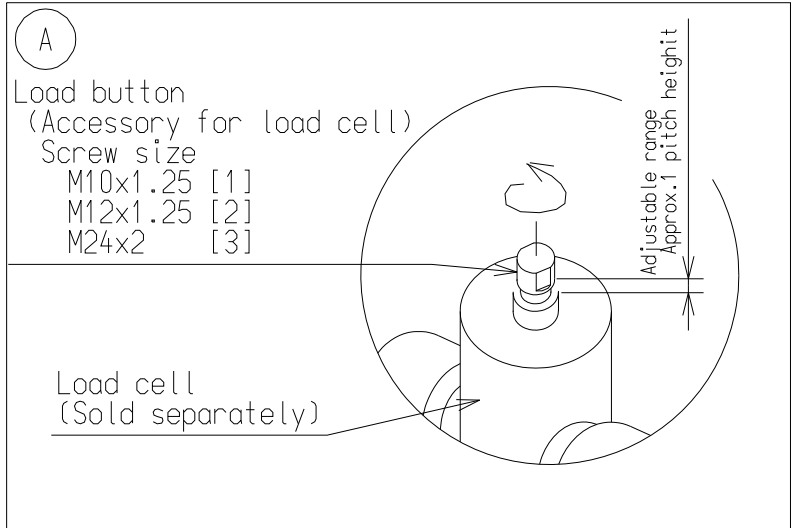


Note
Target load cell attachment
in this figure
[1]: FCA-CCP1-50K/100K
[2]: FCA-CCP1-200K/1T
[3]: FCA-CCP1-2T/5T



Note
Target load cell attachment ⑪⑥② Jack (Customer's standard product)
in this figure

- [1]: FCA-CCP1-50K/100K
- [2]: FCA-CCP1-200K/1T
- [3]: FCA-CCP1-2T/5T



■ Example of installation procedures

- ① Fix the base plate on the stand preliminarily.
•The level on the upper surface of the stand should be within ± 0.3 deg.
- ② Lower the tank.
- ③ Fix the top plate to the bracket.
- ④ Fix the base plate to the stand.
- ⑤ Remove the guide plate.

(When the dummy load cell is purchased, the following work is done succeeding.)

- ⑥ Lift up the tank approx. 3 mm with a jack.
- ⑦ Remove the dummy load cell.
- ⑧ The load cell pin is attached to the bottom of a load cell.
- ⑨ Place the load cell on the base plate.
- ⑩ Put the bearing plate on the load cell.
- ⑪ Lower the tank slowly.

■ Example of adjustment procedures

After installing the instrument, make adjustment on the installation as follows:

Ideal Condition

- At the time of tare weight load application, controls the output of each load cell less than 30% (standard) of deviation against the equal division.
- However, if the position of center of gravity is deviated from the center of supporting point extremely, it will be out of that limitation.
- Set the joint bar with the condition of no load applied.

Ⓐ Level adjustment procedures

- What is "Level adjustment"?
Each load cell part is adjusted so that the tare weight (weight of tank) is evenly adjusted.
- Level adjustment in a load button
Raise the load button of the load cell with the low allotment of the tare.
Procedures: Check the allotment of the tare.
Lift the tank up with a jack.
Go up and down by turning the load button.
(However, less than one rotation)
Then lower the tank.

• Liner adjustment

- Insert some liners at the section of load cell whose division of tare weight portion is low.
Prepare for some liner. (0.1, 0.2, 0.5 and 1 mm)
Procedures: Check the allotment of the tare.
Lift the tank up with a jack.
Loosen the fixed bolts located at the bracket side.
Insert the liners between the bracket and the top plate.
Then lower the tank.
Tighten the fixing bolts at the bracket side.

Ⓑ Adjustment on no load application on joint bar

- Reason: If some load is applied on the steel ball, there may have a fear of effect on accuracy.
- Check method: It checks that a joint bar moves by hand.
- Adjustment procedures: joint bar fixed nuts are loosened.
The joint bar is turned and rod end interval is made to expand and contract.
The joint bar fixed nut is bound tight after checking the non-load of the joint bar.