

ASSEMBLY

Assembly procedure

If a customer personally assembles the servo motor and reducer please use the following tip. The reducer flange to which the servo motor is attached has different dimensions based on the motor specified. Therefore, assembly may be impossible for some motor. Make sure the correct motor is specified before ordering the reducer.

1. Spec. in case of assembling a motor without key

- ① Take off the rubber cap, turn the input shaft, and match the head of the bolt hole of set screw. Make sure that the set bolt is loosened.
- ② Gradually put the motor shaft into the input shaft (Ensure that it is smoothly put in without jam). Be careful not to be inserted with the motor tilted.
- ③ Attach the motor to the reducer and fasten the bolt with designated fastening torque. See table 1.
- ④ Fasten the set bolt of the input shaft with designated fastening torque wrench, etc. See table 2.
- ⑤ Put on the rubber cap. It is the end of assembling.

● Table 1

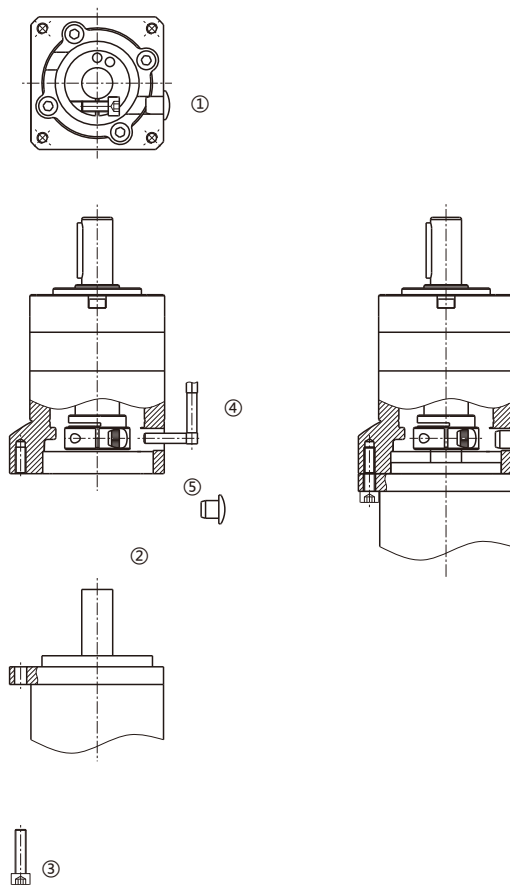
Motor combination bolt	Fastening torque	
	(N·m)	(kgf·cm)
M3	1.0	10
M4	3.0	30
M5	5.8	60
M6	9.8	100
M8	19.6	200
M10	39.2	400
M12	68.6	700
M16	168	1650

● Table 2

Combination bolt	Fastening torque	
	(N·m)	(kgf·cm)
M3	1.5	15
M4	3.5	35
M5	7.1	71
M6	12	120
M8	30	300
M10	60	612

You can assemble the motor with keyway like above when take off the key. There is no risk of dislocation.

● AE/AF series schematic diagram

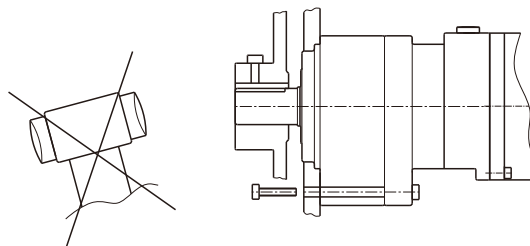


Reducer assembly

Jointing with reducer In case of jointing a reducer with the device, make sure that the combining side is plane without inconsistency, and when assemble reducer outo equipment, ensuring assembly surface smooth and without burr. See table 4.

● Table 4

Reducer combination bolt	Fastening torque	
	(N·m)	(kgf·cm)
M5	5.8	60
M6	9.8	100
M8	19.6	200
M10	39.2	400
M12	68.6	700
M16	16.8	1650



Connection to the output shaft

Cautions:

1. When assemble a coupling, pulley, etc. onto the output shaft, make sure that excessive axial load not be given to the output shaft.
2. In case of strongly hitting the shaft with a hammer, the shaft inlet or the inside of the reducer may be damaged, therefore it shall be prohibited.
3. If the shaft or key of a coupling assembled is loosed, it may cause carbonization, so be careful when assembling.
4. For assembling of a coupling, fix the key with a set bolt.
5. Please adjust shaft centre carefully in connecting.