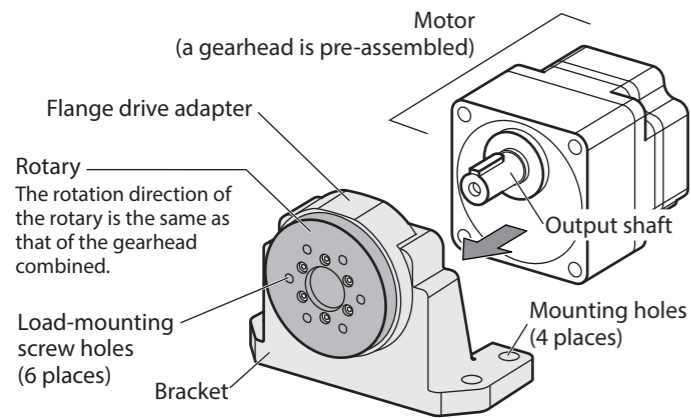


## Installation Manual

### Flange Drive Adapter



### Safety precautions

The precautions described below are intended to ensure the safe and correct use of the product, and to prevent the user and other personnel from exposure to the risk of injury. Use the product only after carefully reading and fully understanding these instructions.

**CAUTION** Handling the product without observing the instructions that accompany a "CAUTION" symbol may result in injury or property damage.

- Do not use in places subjected to splashing water. Doing so may result in damage to the product.
- Do not perform instantaneous bidirectional operation of the motor. Doing so may result in damage to the product.
- Do not lift the product by holding the rotary. Doing so may result in injury.
- Do not insert an object into the gaps between the rotary and the bracket. Doing so may result in injury.
- Do not touch the rotary during operation. Doing so may result in injury.
- Dispose the product correctly in accordance with laws and regulations, or instructions of local governments.

### Precautions for use

This section explains requirements the user should consider when using the product.

#### Grease measures

On rare occasions, grease may ooze out from the flange drive adapter. If there is a concern over possible environmental damage resulting from the leakage of grease, provide an oil tray or similar oil catching mechanism in order not to cause a secondary damage. Grease leakage may lead to problems in the user's equipment or products.

#### When using in low temperature environment

When an ambient temperature is low, a load torque may increase due to viscosity of the grease used in the flange drive adapter, and the output torque may decrease or the overload alarm may be generated. However, as time passes, the grease is warmed up, and the motor can be operated without generating the overload alarm.

#### To prevent seizure

Grease for preventing seizure is applied to the inserting section of output shaft of the flange drive adapter. When maintaining or assembling the motor to the flange drive adapter, apply molybdenum disulfide grease to the inserting section of output shaft.

Thank you for purchasing an Oriental Motor product.

This manual describes installation procedures for the product. Please read the installation manual (this document) and the operating manual of the motor combined thoroughly to ensure safe operation. Only qualified personnel of electrical and mechanical engineering should work with the product.

RoHS Directive: This product do not contain the substances exceeding the restriction values of RoHS Directive (2011/65/EU).

### Applicable gearhead

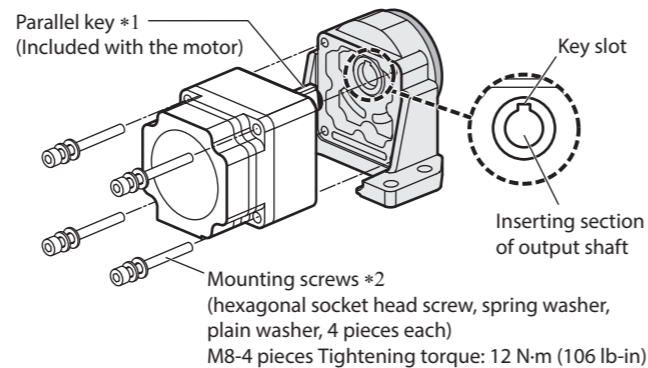
Use the flange drive adapter in combination with the applicable gearhead.

Model	Applicable gearhead
AGD580B	GFS5G ____, GFV5G ____, TS geared type frame size 90 mm (3.54 in.)

\* Excluding gearheads with inch-sized output shaft

## 1. Assembling the motor

- Check the parallel key is fitted to the output shaft before assembling the motor with the flange drive adapter.
- Check there is no gap between the flange drive adapter and the motor to secure with mounting screws.

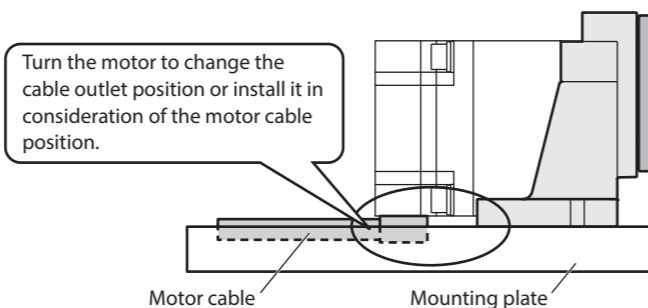


- \*1 The parallel key is fixed to the output shaft depending on the motor.
- \*2 Included with the motor. In the case of GFS5G \_\_\_\_, assemble without using the included plain washers.

- Note**
- Do not forcibly assemble the motor. Doing so may result in abnormal noise or shorter service life.
  - When assembling the motor, exercise caution not to pinch your fingers or other parts of your body. This may cause injury.

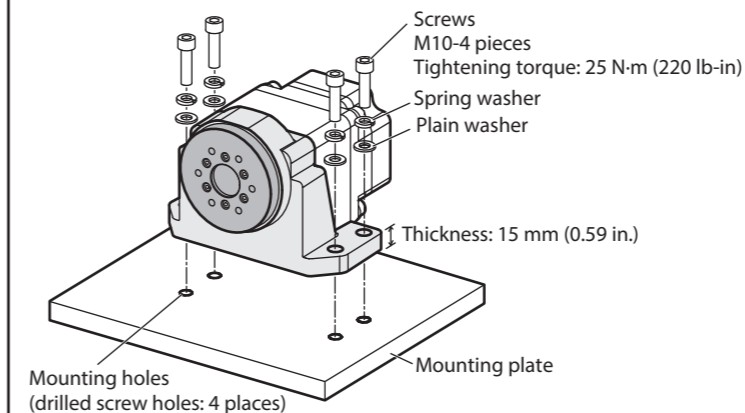
#### Cable outlet position

If the motor is assembled with the flange output head in a state of the motor cable outlet facing downward, the motor cable contacts the mounting plate.



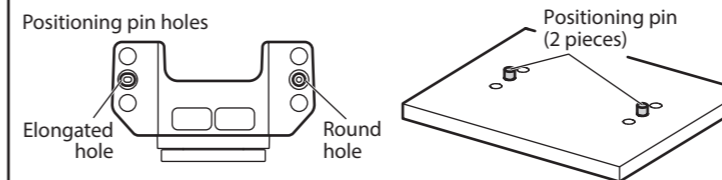
## 2. Installing on mounting plate

Ensure that there is no gap between the mounting plate having excellent vibration resistance and the flange drive adapter before installing. Screws for mounting are required separately. Check on the Oriental Motor Website for machining dimensions of mounting holes.



- Note**
- When installing the flange drive adapter on the mounting plate, exercise caution not to pinch your fingers or other parts of your body. This may cause injury.

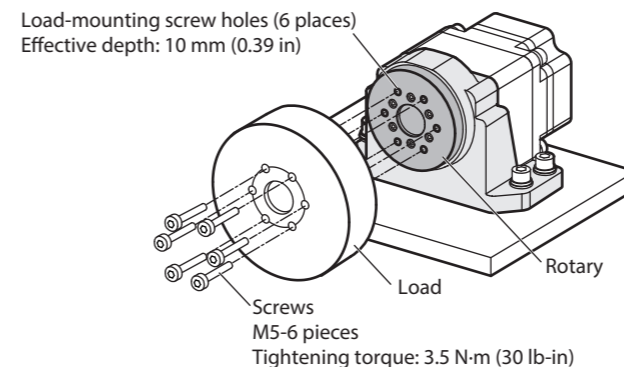
The positioning pin holes are provided for positioning.



- Note**
- Be sure the positioning pins are secured to the mounting plate side. Driving the pins into the flange drive adapter may cause damage to the product due to impact.

## 3. Installing a load

Install a load on the rotary of the flange drive adapter. Load-mounting screws are required separately. Check on the Oriental Motor Website for machining dimensions of the load-mounting screw hole.



- Note**
- When installing a load, do not use screws which length exceeds the effective depth. Doing so may result in damage to the product.
  - When installing a load, do not damage the rotary. Installing the load forcibly using a hammer or the like may break the bearing of the flange drive adapter.

## Permissible radial load and permissible axial load

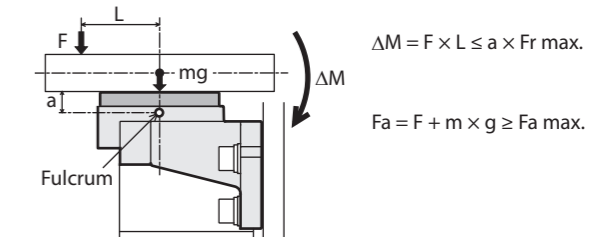
Use the product in a state where the permissible radial load and the permissible axial load are less than or equal to the values in the table.

Permissible radial load [N (lb.)] Fr max.	Permissible axial load [N (lb.)] Fa max.
1500 (1000) [330 (220)]	1000 (500) [220 (112)]
Value in ( ): When 300 r/min is exceeded.	Value in ( ): When 150 r/min is exceeded.

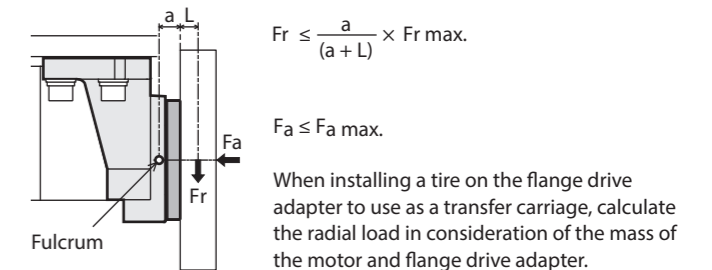
Fr: Radial load [N (lb.)]  
Fa: Axial load [N (lb.)]  
DM: Load moment [N·m (lb-in)]  
a: 0.017

F: External force [N (lb.)]  
L: Distance to load point [m (ft.)]  
m: Load mass [kg (lb.)]  
g: Gravitational acceleration

- When an external force F is applied on the position of distance L from the center of the rotary  
Calculate the load moment and use within the permissible values.



- When a radial load Fr is applied on the position of distance L from the mounting surface  
Use within the permissible values.



- Note**
- If the radial load or the axial load is exceeded the permissible value, the bearing or rotary of the flange drive adapter may be damaged.

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Please contact your nearest Oriental Motor office for further information.

ORIENTAL MOTOR U.S.A. CORP.  
Technical Support Tel:800-468-3982  
8:30am EST to 5:00pm PST (M-F)  
www.orientalmotor.com

ORIENTAL MOTOR (EUROPA) GmbH  
Schiebsstraße 44, 40549 Düsseldorf, Germany  
Technical Support Tel:00 800/22 55 66 22  
www.orientalmotor.de

ORIENTAL MOTOR (UK) LTD.  
Tel:+44-1256347090  
www.orientalmotor.co.uk

ORIENTAL MOTOR (FRANCE) SARL  
Tel:+33-1 47 86 97 50  
www.orientalmotor.fr

ORIENTAL MOTOR ITALIA s.r.l.  
Tel:+39-02-93906347  
www.orientalmotor.it

ORIENTAL MOTOR CO., LTD.  
4-8-1 Higashiueno, Taito-ku, Tokyo 110-8536  
Japan  
Tel:+81-3-6744-0361  
www.orientalmotor.co.jp

ORIENTAL MOTOR (INDIA) PVT. LTD.  
Tel:1800-842-0280  
www.orientalmotor.com.sg

ORIENTAL MOTOR (MALAYSIA) SDN. BHD.  
Tel:1800-806-161  
www.orientalmotor.com.my

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www.orientalmotor.co.th

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www.orientalmotor.co.in

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Tel:0800-060708  
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1800-121-4149 (For Hindi)  
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