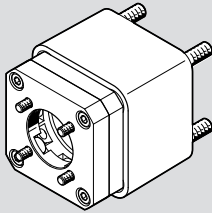


EAMM-A-D...-...G/H-9

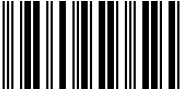
Axial kit



FESTO

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8236802

Assembly instructions

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Original instructions

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1 Applicable documents

All available documents for the product → www.festo.com/sp.

Document	Product	Table of contents
Operating instructions	Gear unit	–
Operating instructions	Axis	–

Tab. 1: Applicable documents

2 Safety

2.1 Safety instructions

- Only mount the product on components that are in a condition to be safely operated.
- Clean the shafts. The coupling hubs [1] grip without slipping only on dry and grease-free drive shaft adapters.
- Maintain the proper alignment of the coupling hubs [1].
- Support the combination in the following cases:
 - If there are protruding or heavy motor attachments.
 - In the event of severe vibrations, vibration loads or shock loads.
- If the motor is loosened or turned, homing must be carried out on the axis.
- Select required mounting components. The kit contains all the mounting components that may be required.
- Select the correct screw length for the screws [7] depending on the axis. The screws [7] are labelled correspondingly.
- Observe the tightening torques. Unless otherwise specified, the tolerance is ± 20%.
If the tightening torques are exceeded, the cover screws of the axis will loosen during disassembly.

2.2 Intended use

2.2.1 Use

The axial kit connects an axis with a gear unit configured axially to the driven shaft.

2.2.2 Permissible axes and gear units

NOTICE

Overloading can cause malfunction and material damage.
The motor’s output variables must not exceed the permissible values of the components used.
Permissible values → www.festo.com/catalogue.

- Limit the motor’s output variables accordingly.

- Take the axis and the gear unit from the interface codes.
Example: EAMM-A-D40-60G
D40: axis interface
60G: gear unit interface

Axis interface	Axis
D32	ESBF-32, EGSL-45, EHMB-20, ERMB-20
D40	ESBF-40, EGSL-55, EHMB-25, ERMB-25
D50	ESBF-50
D60	ESBF-63, EGSL-75, EHMB-32, ERMB-32
D80	ESBF-80

Tab. 2: Permissible axes

Gear unit interface	Gear unit
40G	EMGA-40, third-party gear unit
60G	EMGA-60-...-SAS/-SST, third-party gear unit
60H	EMGA-60-...-EAS, EMGC-60, third-party gear unit
80G	EMGA-80, third-party gear unit
90GA	Third-party gear unit

Tab. 3: Permissible gear units

It is the responsibility of users to qualify third-party gear units with the matching mechanical interface for the combination.
To find out which third-party gear units are suitable, contact your regional Festo contact or call → www.festo.com/sp.

2.3 Training of qualified personnel

Work on the product may only be carried out by qualified personnel who can evaluate the work and detect dangers. Personnel must have the relevant mechanical training.

3 Additional information

- Contact the regional Festo contact if you have technical problems.
- Accessories → www.festo.com/catalogue.

4 Scope of delivery

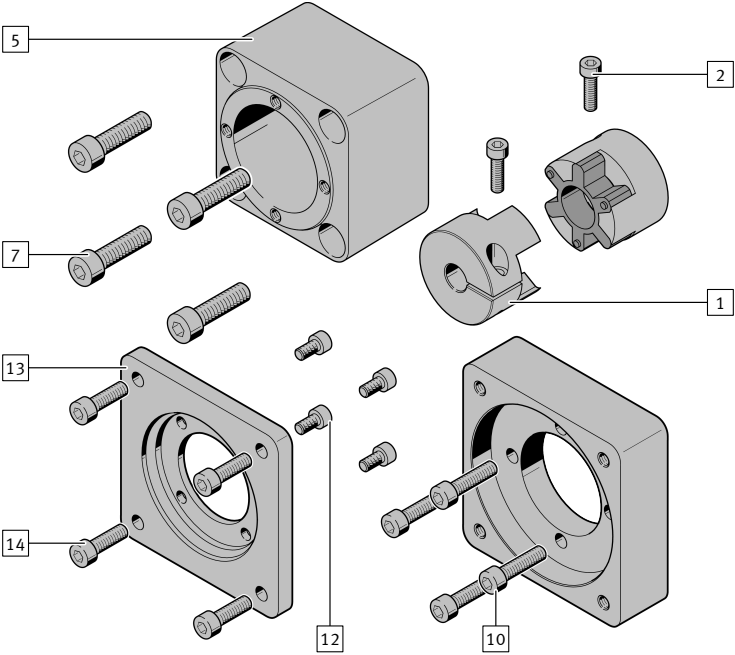


Fig. 1: Basic scope of delivery

- | | | | |
|---|-----------------------|----|-------------------|
| 1 | Coupling hub (2x) | 10 | Screw (4x) |
| 2 | Clamping screw (2x) | 12 | Screw (4x) |
| 5 | Coupling housing (1x) | 13 | Motor flange (1x) |
| 7 | Screw (4x) | 14 | Screw (4x) |

5 Mounting

5.1 Assembling

5.1.1 Preassembly of coupling

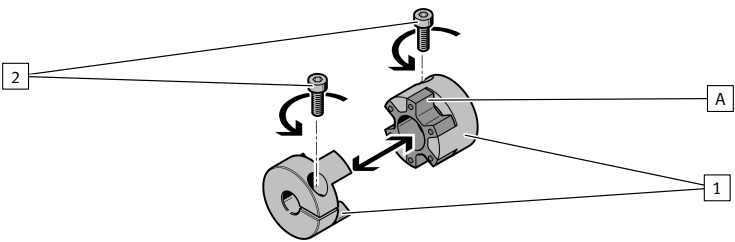


Fig. 2: Disconnecting coupling

1. Pull the coupling apart.
2. Place the elastomer spider [A] on one of the two coupling hubs [1].
3. Unscrew the clamping screws [2].

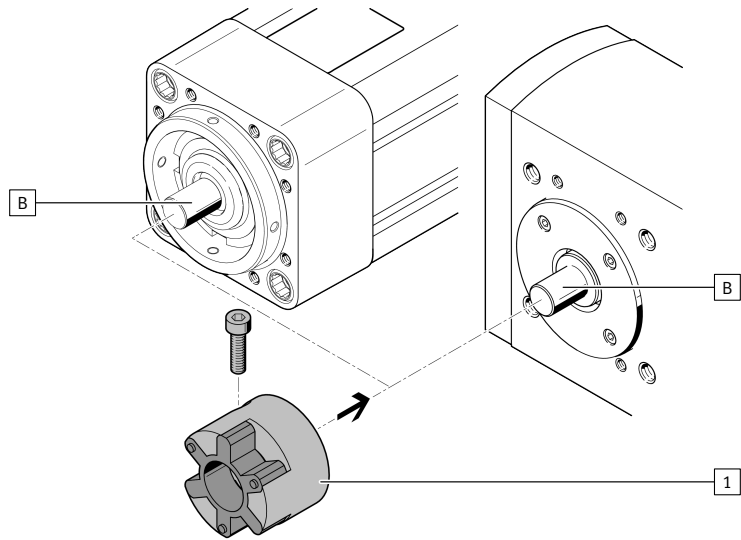


Fig. 3: Pushing on coupling hub, axis side

- Slide the coupling hub [1] with the appropriate hole onto the drive shaft adapter [B].

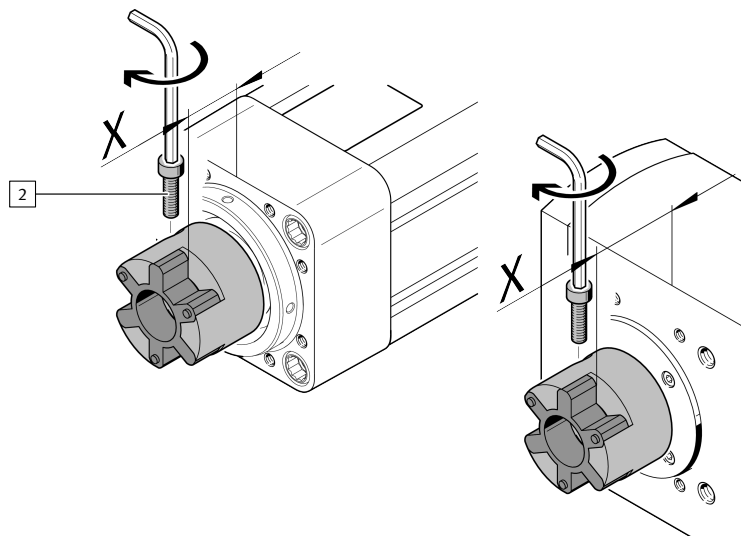


Fig. 4: Aligning coupling hub, axis side

1. Maintain the distance (X) → 5.1.2 Alignment of coupling.
2. Tighten the axis-side clamping screw [2].

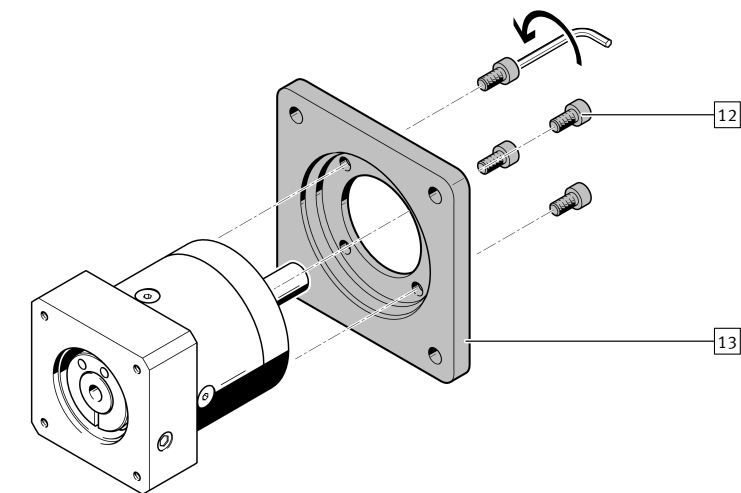


Fig. 5: Mounting motor flange, gear unit side

- Mount the motor flange [13] on the gear unit with the screws [12].

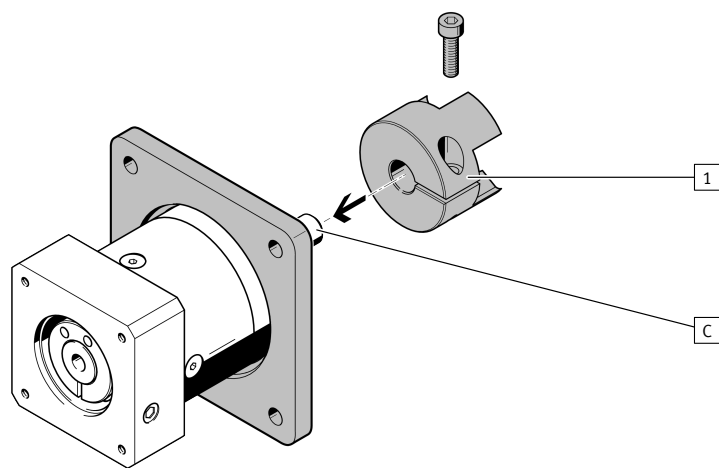


Fig. 6: Pushing on coupling hub, axis side

- Slide the coupling hub [1] with the appropriate hole onto the drive shaft adapter [C].

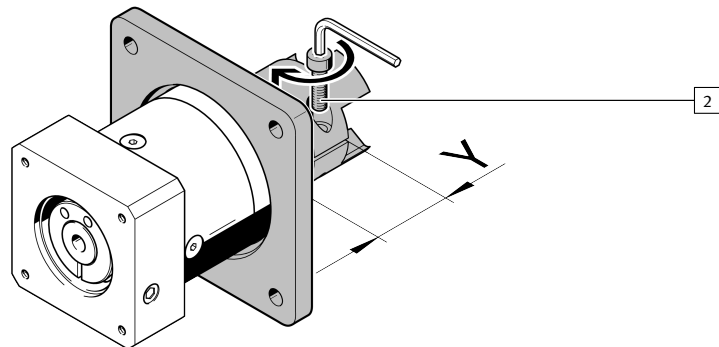


Fig. 7: Aligning coupling hub, gear unit side

1. Maintain distance (Y) → 5.1.2 Alignment of coupling.
2. Tighten the clamping screw [2] on the gear unit side.

5.1.2 Alignment of coupling

NOTICE

Axial forces on the shafts of gear unit and axis.

Increased wear.

- Maintain distances.

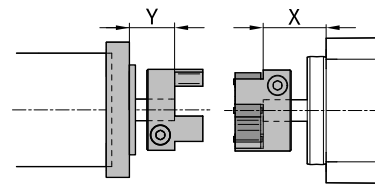


Fig. 8: Aligning coupling hubs

EAMM-A-	gear unit side	axis side
	$Y \pm 0,5$ [mm]	$X \pm 0,5$ [mm]
D32-40G	24.9	18.2
D32-60G	28.9	18.2
D32-60H	28.9	18.2
D40-40G-G2	24.4	18.7
D40-60G	28.4	18.7
D40-60H	28.4	18.7
D50-60G	35.7	27.7
D50-60H	35.7	27.7
D60-60G-G2	34.9	23.5
D60-60G-G3	35.5	23.5
D60-60H	34.9	23.5
D60-60H-G3	35.5	23.5
D60-80G	37.9	23.5
D80-80G	40.3	33.5
D80-90GA	47.8	33.5

Tab. 4: Coupling distances X and Y

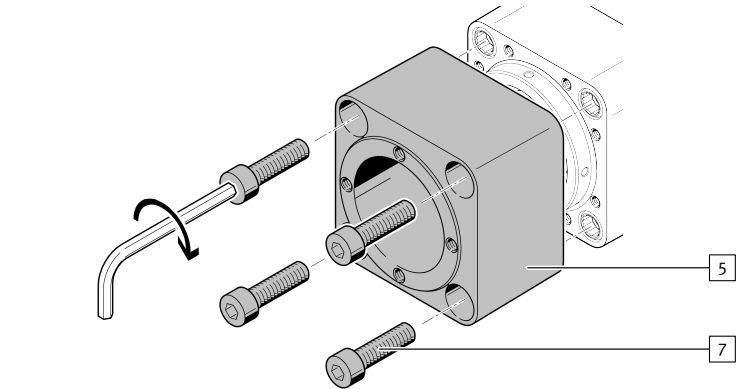


Fig. 9: Mounting coupling housing

- Mount the coupling housing [5] on the axis with the screws [7].

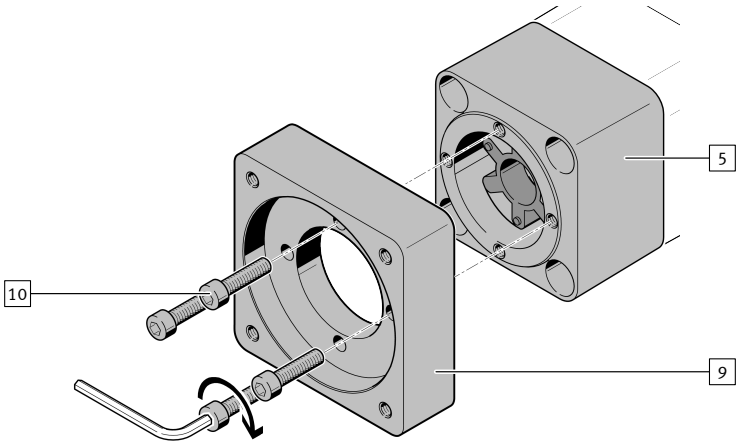


Fig. 10: Mounting motor flange

- Mount the motor flange [9] on the coupling housing [5] with the screws [10].

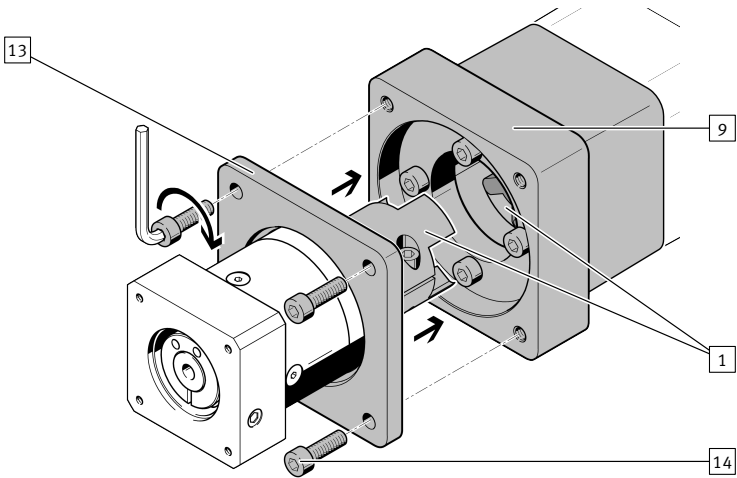


Fig. 11: Mounting gear unit

1. Push the gear unit and the axis completely together. Ensure that the coupling hubs [1] are in the correct relative position.
 - ⚠ There is no gap between the motor flange [13] and motor flange [9].
2. Mount the gear unit on the motor flange [9] via the motor flange [13] with the screws [14].

5.2 Integration

5.2.1 Support of the axis/gear unit combination

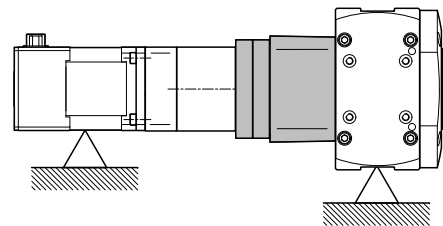


Fig. 12: Support of the axis/gear unit combination

- Support the combination so it is free from tension to avoid damage.

⚠ CAUTION

Risk of injury from touching hot surfaces.

The motor connecting kit becomes hot due to the heat dissipation of the motor.

- Do not touch the motor connecting kit during operation or immediately afterward.

7 Technical data

7.1 Screw sizes and tightening torques

EAMM-A-	[2]	[Nm]	[7]	[Nm]	[10]	[Nm]	[12]	[Nm]
D32-40G	M4x12	4	M6x30	5/6 ¹⁾	M4x12	3	M5x16	6
D32-60G	M4x12	4	M6x30	5/6 ¹⁾	M4x18	3	M5x10	6
D32-60H	M4x12	4	M6x30	5/6 ¹⁾	M4x18	3	M5x10	6
D40-40G-G2	M4x12	4	M6x30	5/6 ¹⁾	M4x12	3	M4x10	3
D40-60G	M4x12	4	M6x30	5/6 ¹⁾	M4x18	3	M5x10	6
D40-60H	M4x12	4	M6x30	5/6 ¹⁾	M4x18	3	M5x10	6
D50-60G	M5x18	8	M8x50	12	M6x25	10	M5x10	6
D50-60H	M5x18	8	M8x50	12	M6x25	10	M5x10	6
D60-60G-G2	M5x18	8	M8x22/ M8x33	9/12 ²⁾	M6x25	10	M5x10	6
D60-60G-G3	M5x18	8	M8x45/ M8x50	9/12 ²⁾	M6x16	10	M5x10	6
D60-60H	M5x18	8	M8x22/ M8x33	9/12 ²⁾	M6x25	10	M5x10	6
D60-60H-G3	M5x18	8	M8x45/ M8x50	9/12 ²⁾	M6x16	10	M5x10	6
D60-80G	M5x18	8	M8x33/ M8x40	9/12 ¹⁾	M6x16	10	M6x12	10
D80-80G	M6x20	12	M10x70	25	M6x20	10	M6x12	10
D80-90GA	M6x20	12	M10x70	25	M6x20	10	M6x16	10

1) For axis EGSL-55: 5 Nm; EHMB-25, ERMB-25, ESBF-32: 6 Nm

2) For axis EGSL-75: 9 Nm; EHMB-32, ERMB-32, ESBF-60: 12 Nm

Tab. 5: Screws [2] ... [12]

EAMM-A-	[14]	[Nm]
D32-40G	M5x16	6
D32-60G	M5x16	6
D32-60H	M5x16	6
D40-40G-G2	M5x16	6
D40-60G	M5x16	6
D40-60H	M5x16	6
D50-60G	M6x20	10
D50-60H	M6x20	10
D60-60G-G2	M6x20	10
D60-60G-G3	M5x20	6
D60-60H	M6x20	10
D60-60H-G3	M5x20	6
D60-80G	M8x20	18
D80-80G	M8x25	18
D80-90GA	M8x22	18

Tab. 6: Screw [14][14]