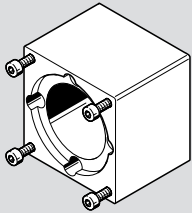


EAMM-A-T...-...A/P/R-15

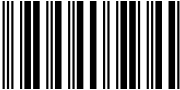
Axial kit



FESTO

Festo SE & Co. KG
Ruiter Straße 82
73734 Esslingen
Germany
+49 711 347-0

www.festo.com


8221512

Assembly instructions

8221512
2025-02g
[8221514]

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 instruction	Motor	–
Operating instruction	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.
- Observe the tightening torques. Unless otherwise specified, the tolerance is ± 20%.

2.2 Intended use

2.2.1 Use

The axial kit connects an axis to a motor configured axially to the driven shaft.

2.2.2 Permissible axes and motors

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 motor from the interface codes.
Example: EAMM-A-T42-60P
T42: axis interface
60P: motor interface

Axis interface	Axis
T42	EGSC-BS-60, ELGC-BS-60, ELGC-TB-60, ELGD-BS-60, ELGD-BS-WD-100, ELGD-BS-WD-120, EPCC-BS-60
T46	ELGC-BS-80, ELGC-TB-80, ELGD-BS-80, ELGD-BS-WD-160, ELGT-BS-90, ELGT-BS-120, ELGT-BS-160

Tab. 2: Permissible axes

Motor interface	Motor
40P	EMMB-/EMME-AS-40
40R	Third-party motor
55A	EMMS-AS-55, third-party motor

Motor interface	Motor
57A	EMCS-/EMMS-ST-57, third-party motor
58AA	Third-party motor
60AA	Third-party motor
60AB	Third-party motor
60P	EMMB-/EMME-/EMMT-AS-60, third-party motor
60PA	Third-party motor
60R	Third-party motor
60RA	Third-party motor
67A	EMCA-EC-67
70A	EMMS-AS-70, third-party motor
70AA	Third-party motor
80P	EMMB-/EMME-/EMMT-AS-80, third-party motor
80PA	Third-party motor
80PB	Third-party motor
82AA	Third-party motor
84AA	Third-party motor
85AA	Third-party motor
87A	EMMB-/EMMS-/EMMT-ST-87
100A	EMME-/EMMS-/EMMT-AS-100, third-party motor

Tab. 3: Permissible motors

1

It is the responsibility of users to qualify third-party motors with the matching mechanical interface for the combination.
To find out which third-party motors are suitable, consult your regional Festo contact or → 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

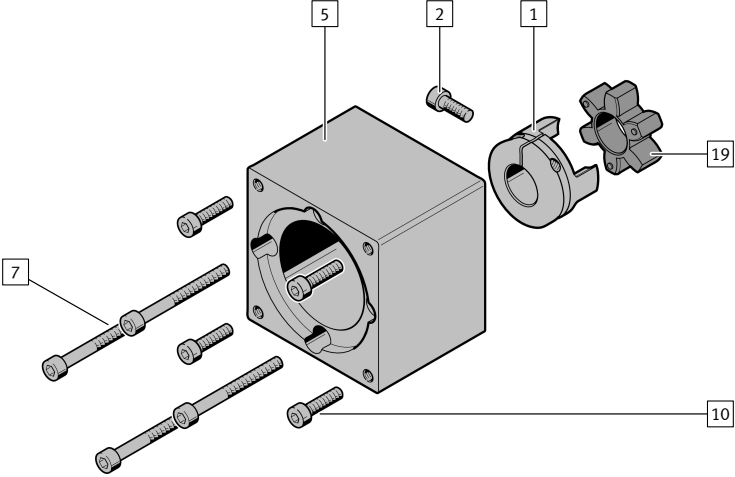


Fig. 1: Basic scope of delivery

- 1

Coupling hub (1x)

2

Clamping screw (1x)

5

Coupling housing (1x)
- 7

Screw (4x)

10

Screw (4x)

19

Elastomer spider (1x)
- 30

Reducing sleeve (4x)

Fig. 2: Supplement to reducing sleeve

- 30

Reducing sleeve (4x)

5 Mounting

5.1 Assembling

5.1.1 Preassembly of reducing sleeve

1

The reducing sleeves [30] are only required if the mounting holes on the output flange of the motor are too large for the supplied retaining screws.



Fig. 3: Inserting reducing sleeves

- Insert the reducing sleeves [30] into the mounting holes of the motor.

5.1.2 Preassembly of coupling

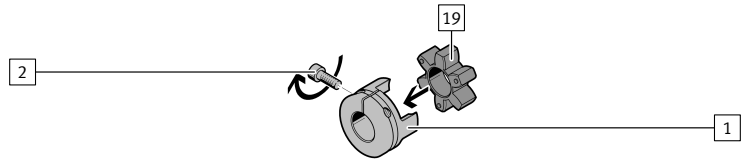


Fig. 4: Push on elastomer spider

1. Place the elastomer spider [19] on the coupling hub [1].
2. Screw on the clamping screw [2].

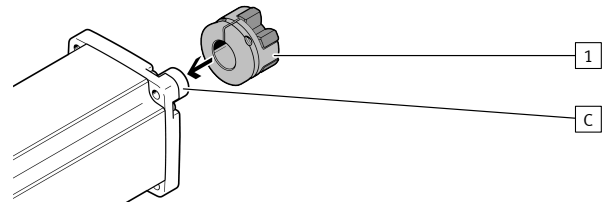


Fig. 5: Push on the coupling hub, motor side

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

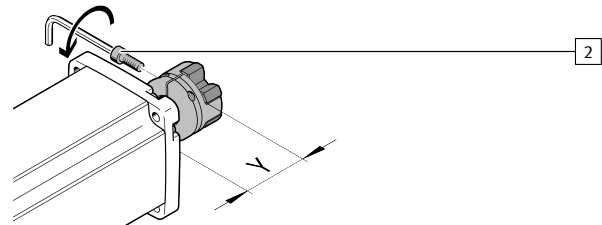


Fig. 6: Align coupling hub, motor side

1. Maintain distance (Y).
2. Tighten the motor-side clamping screw [2].

5.1.3 Alignment of coupling

NOTICE

Axial forces on the shafts of motor and axis.

Axial forces result in failure of the encoder/brake or increased wear.

- Maintain distances.

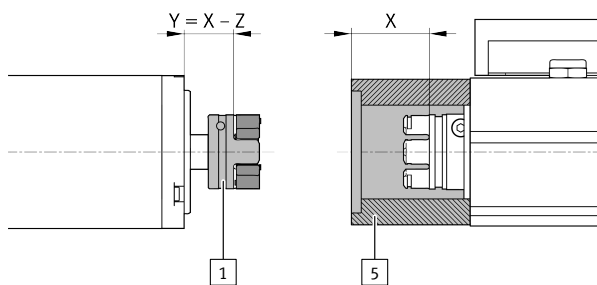


Fig. 7: Aligning coupling hub

1. Measure dimension X from the flat surface of the coupling housing [5] to the cam base of the axis-side coupling hub.
2. Calculate the motor-side dimension $Y = X - Z \rightarrow$ Tab. 4 Dimension Z.
3. Adjust the motor-side coupling hub [1] to dimension $Y \pm 0.3$ mm.

EAMM-A-	Z [mm]
T42/46	11.5

Tab. 4: Dimension Z

1

The theoretical nominal value Y may only be directly used if dimension X cannot be measured $\rightarrow$ Tab. 5 Dimension Y.

EAMM-A-	Y [mm]
T42-40P	15.0
T42-40R	18.0

EAMM-A-	Y [mm]
T42-55A	15.0
T42-57A	15.0
T42-58AA	15.0
T42-60AA	15.0
T42-60AB	15.0
T42-60P	21.0
T42-60R	21.0
T42-60RA	21.0
T42-67A	15.0
T42-80P	36.1
T42-80PA	41.1
T42-82AA	29
T42-84AA	41.1
T42-87A	17.0
T46-57A	15
T46-60P	20.0
T46-60R	20.0
T46-60RA	20.0
T46-67A	15.0
T46-70A	15.0
T46-70AA	20.0
T46-80P	36.1
T46-80PA	41.5
T46-80PB	41.5
T46-82AA	41.1
T46-84AA	29
T46-85AA	28.0
T46-87A	17.0
T46-100A	41.1

Tab. 5: Dimension Y

5.1.4 Motor and axis connection

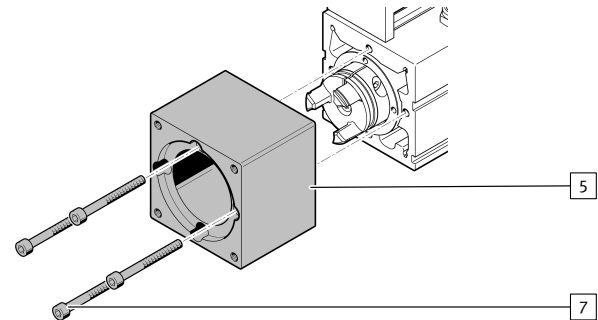


Fig. 8: Mounting coupling housing

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

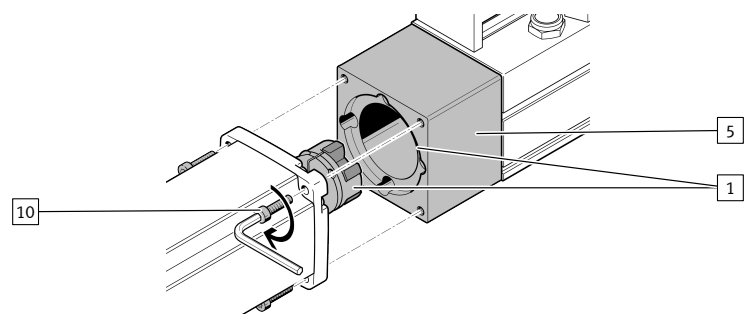


Fig. 9: Mounting motor

1. Push the motor and the axis together completely. Ensure that the coupling hubs [1] are in the correct relative position.
 - ↳ There is no gap between motor and coupling housing [5].
2. Mount the motor on the coupling housing [5] with the screws [10].

5.2 Supporting frame for the axis-motor combination

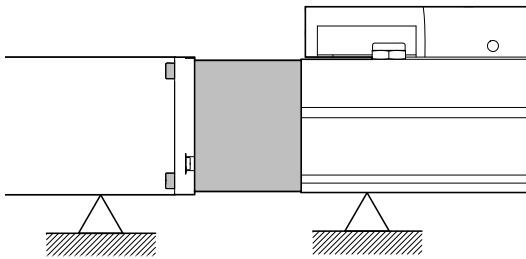


Fig. 10: Supporting frame for the axis-motor combination

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

6 In operation

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]
T42-40P	M4x12	4	M4x20	3	M3x10	1.2
T42-40R	M4x12	4	M4x20	3	M4x14	4
T42-55A	M4x12	4	M4x40	3	M5x20	6
T42-57A	M4x12	4	M4x40	3	M4x16	3
T42-58AA	M4x12	4	M4x40	3	M4x16	3
T42-60AA	M4x12	4	M4x40	3	M4x16	3
T42-60AB	M4x12	4	M4x40	3	M4x16	3
T42-60P	M4x12	4	M4x40	3	M4x16	3
T42-60R	M4x12	4	M4x40	3	M4x16	3
T42-60RA	M4x12	4	M4x40	3	M4x16	3
T42-67A	M4x12	4	M4x40	3	M6x16	10
T42-80P	M4x12	4	M4x60	3	M5x20	6
T42-80PA	M4x12	4	M4x60	3	M6x20	10
T42-82AA	M4x12	4	M4x50	3	M6x20	10
T42-84AA	M4x12	4	M4x60	3	M6x20	10
T42-87A	M4x12	4	M4x40	3	M6x20	10
T46-57A	M4x12	4	M6x20	10	M4x16	3
T46-60P	M4x12	4	M6x20	10	M4x16	3
T46-60R	M4x12	4	M6x20	10	M4x16	3
T46-60RA	M4x12	4	M6x20	10	M4x16	3
T46-67A	M4x12	4	M6x20	10	M6x16	10
T46-70A	M4x12	4	M6x40	10	M5x20	6
T46-70AA	M4x12	4	M6x40	10	M5x20	6
T46-80P	M4x12	4	M6x60	10	M5x20	6
T46-80PA	M4x12	4	M6x60	10	M6x20	10
T46-80PB	M4x12	4	M6x60	10	M6x20	10
T46-82AA	M4x12	4	M6x50	10	M6x20	10
T46-84AA	M4x12	4	M6x60	10	M6x20	10
T46-85AA	M4x12	4	M6x40	10	M6x20	10
T46-87A	M4x12	4	M6x40	10	M6x20	10
T46-100A	M4x12	4	M6x60	10	M8x25	18

Tab. 6: Screws [2] ... [10]