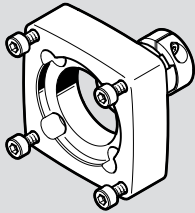


EAMM-A-P...-...A/P/R-1

Axial kit



FESTO

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8245931

Assembly instructions

8245931
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[8245933]

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	Motor	–
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.
- 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-P8-38A-55A

P8-38A: axis interface

55A: motor interface

Axis interface	Axis ¹⁾
P3-28D	EGSK-15
P4-28B	EGSK-20, EGSP-20
P5-28B	EGSK-26, EGSP-26
P6-38A	EGSK-33
P8-38A	EGSK-46, EGSP-33
P10-38A	EGSP-46

1) Electric slide EGSK/EGSP

Tab. 2: Permissible axes

Motor interface	Motor
28A	EMMS-ST-28
38AA	Third-party motor
40A	EMMS-AS-40
40P	EMMB-/EMME-/EMMT-AS-40, EMMT-EC-40
40R	Third-party motor
40RA	Third-party motor
42A	EMCS-/EMMB-/EMMS/EMMT-ST-42, third-party motor
55A	EMMS-AS-55, third-party motor
57A	EMCS-/EMMS-ST-57, third-party motor
58AA	Third-party motor
60AA	Third-party motor
60P	EMMB-/EMME-/EMMT-AS-60, 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
87A	EMMB-/EMMS-/EMMT-ST-87

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

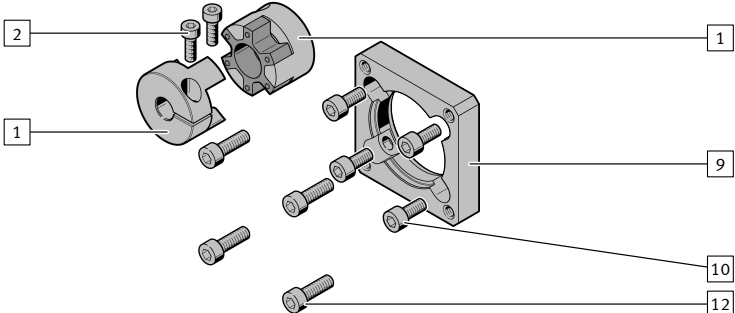


Fig. 1: Basic scope of delivery

1	Coupling hub (2x)	10	Screw (4x)
2	Clamping screw (2x)	12	Screw (4x)
9	Motor flange (1x)		

1

EAMM-A-P3-28D-... only requires screw [10] (2x).



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.

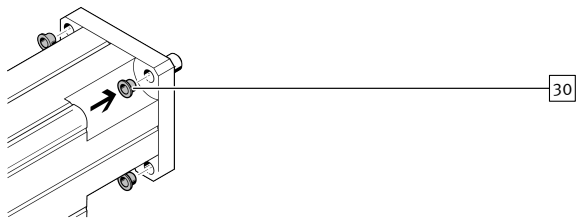


Fig. 3: Inserting reducing sleeves

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

5.1.2 Preassembly of coupling

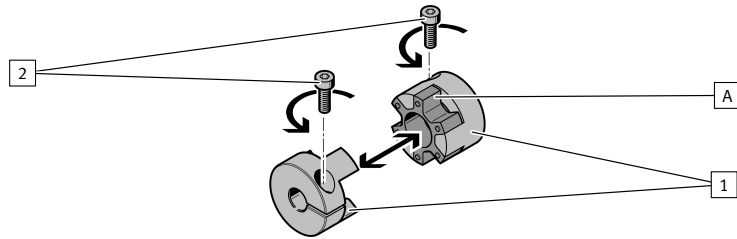


Fig. 4: Disconnecting coupling

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].

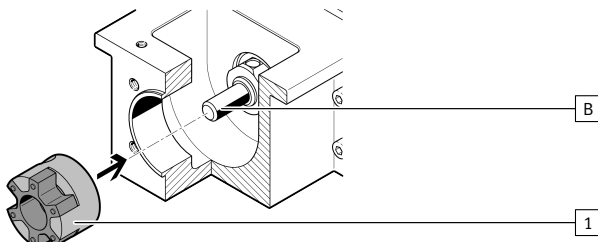


Fig. 5: Pushing on coupling hub, axis side

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

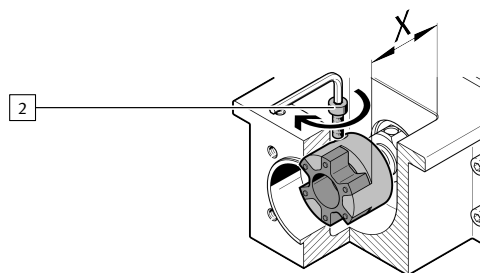


Fig. 6: Aligning coupling hub, axis side

1. Maintain distance (X) → 5.1.3 Alignment of coupling.
2. Tighten the axis-side clamping screw [2].

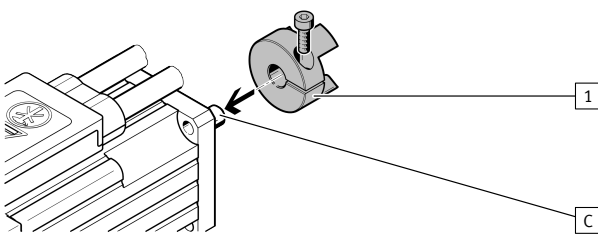


Fig. 7: Pushing on coupling hub, motor side

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

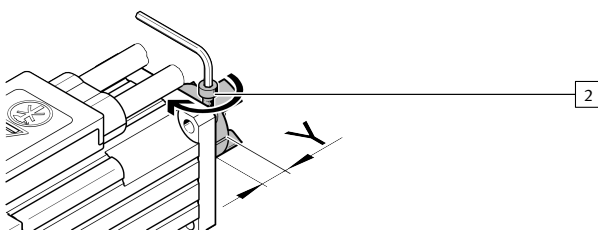


Fig. 8: Aligning coupling hub, motor side

1. Maintain distance (Y) → 5.1.3 Alignment of coupling.
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.

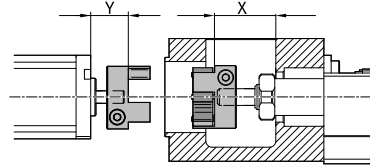


Fig. 9: Aligning coupling hubs

EAMM-A-	Axis	motor side	axis side
		Y ±0.3 [mm]	X ±0.3 [mm]
P3-28D-28A	EGSK-15	21.2	12.5
P3-28D-40P	EGSK-15	20.7	12.5
P4-28B-38AA	EGSK-/EGSP-20	26.0	14.5
P4-28B-40A	EGSK-/EGSP-20	16.5	15.0
P4-28B-40P	EGSK-/EGSP-20	21.0	14.5
P4-28B-40R	EGSK-/EGSP-20	26.0	14.5
P4-28B-40RA	EGSK-/EGSP-20	19.0	14.5
P4-28B-42A	EGSK-/EGSP-20	24.7	15.0
P5-28B-38AA	EGSK-/EGSP-26	26.5	17.0
P5-28B-40A	EGSK-/EGSP-26	17	17.5
P5-28B-40P	EGSK-/EGSP-26	21.5	17.0
P5-28B-40R	EGSK-/EGSP-26	26.5	17.0
P5-28B-40RA	EGSK-/EGSP-26	19.5	17.0
P5-28B-42A	EGSK-/EGSP-26	25.2	17.5
P6-38A-55A	EGSK-33	22.3	13.3
P6-38A-57A	EGSK-33	22.3	13.3
P6-38A-58AA	EGSK-33	21.9	13.3
P6-38A-60P	EGSK-33	31.8	13.8
P6-38A-60R	EGSK-33	23.1	13.3
P6-38A-60RA	EGSK-33	23.1	13.3
P6-38A-67A	EGSK-33	27.3	13.3
P8-38A-55A	EGSK-46	20.6	26.5
	EGSP-33	18.7	17.3
P8-38A-57A	EGSK-46	20.6	26.5
	EGSP-33	18.7	17.3
P8-38A-58AA	EGSK-46, EGSP-33	20.4	26.3
P8-38A-60AA	EGSK-46, EGSP-33	21.1	26.5
P8-38A-60P	EGSK-46	30.6	26.5
	EGSP-33	28.3	17.3
P8-38A-60R	EGSK-46, EGSP-33	22.1	25.8
	EGSK-46, EGSP-33	22.1	25.8
P8-38A-67A	EGSK-46	25.6	26.5
	EGSP-33	23.3	17.3
P8-38A-70A	EGSK-46	23.3	26.5
	EGSP-33	21.0	17.3
P8-38A-70AA	EGSK-46, EGSP-33	23.4	26.5
P8-38A-87A	EGSK-46	27.6	26.5
	EGSP-33	25.3	17.3
P10-38A-55A	EGSP-46	19.1	28.0
P10-38A-57A	EGSP-46	19.1	28.0
P10-38A-60P	EGSP-46	29.1	28.0
P10-38A-67A	EGSP-46	24.1	28.0
P10-38A-70A	EGSP-46	21.7	28.0
P10-38A-87A	EGSP-46	26.0	28.0

Tab. 4: Coupling distances X and Y

5.1.4 Connection of motor and axis

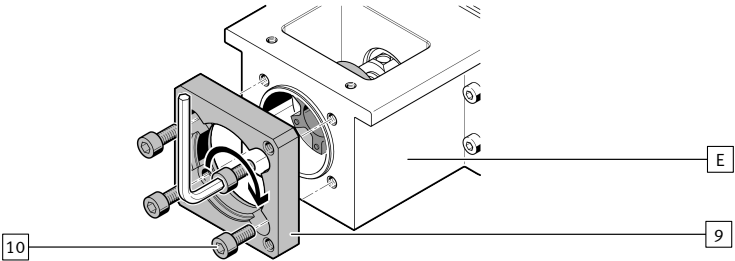


Fig. 10: Mounting coupling housing

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

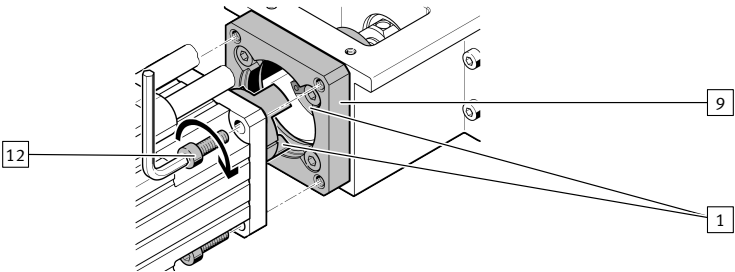


Fig. 11: Mounting motor

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 the motor and motor flange [9].
2. Mount the motor on the motor flange [9] with the screws [12].

①

- The mounting direction for EAMM-A-P4/P5-28B-42A is different.
- Mount the motor flange [9] with the screws [12] on the motor.

5.2 Integration

5.2.1 Supporting frame for the axis-motor combination

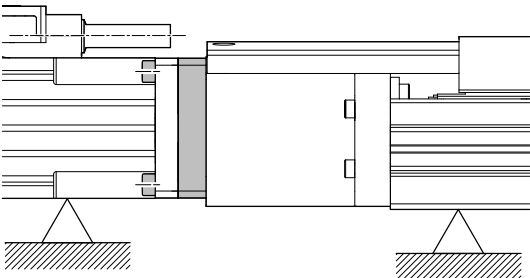


Fig. 12: Supporting frame for the axis-motor combination

- 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]	[10]	[Nm]	[12]	[Nm]
P3-28D-28A	M2x6	0.5	M3x12	1.2	M2.5x8	0.8
P3-28D-40P	M2x6	0.5	M3x10	1.2	M3x12	1.2
P4-28B-38AA	M2x6	0.5	M3x14	1.2	M3x14	1.2
P4-28B-40A	M2x6	0.5	M3x14	1.2	M3x14	1.2
P4-28B-40P	M2x6	0.5	M3x12	1.2	M3x12	1.2
P4-28B-40R	M2x6	0.5	M3x14	1.2	M4x12	3
P4-28B-40RA	M2x6	0.5	M3x10	1.2	M4x14	3
P4-28B-42A	M2x6	0.5	M3x20	1.2	M3x10	1.2
P5-28B-38AA	M2x6	0.5	M3x14	1.2	M3x14	1.2
P5-28B-40A	M2x6	0.5	M3x14	1.2	M3x14	1.2
P5-28B-40P	M2x6	0.5	M3x12	1.2	M3x12	1.2
P5-28B-40R	M2x6	0.5	M3x14	1.2	M4x12	3
P5-28B-40RA	M2x6	0.5	M3x10	1.2	M4x14	3
P5-28B-42A	M2x6	0.5	M3x20	1.2	M3x10	1.2
P6-38A-55A	M4x12	4	M5x12	6	M5x16	6
P6-38A-57A	M4x12	4	M5x12	6	M4x12	3
P6-38A-58AA	M4x12	4	M5x14	6	M4x16	3
P6-38A-60P	M4x12	4	M5x18	6	M4x16	3
P6-38A-60R	M4x12	4	M5x14	6	M4x16	3
P6-38A-60RA	M4x12	4	M5x14	6	M4x16	3
P6-38A-67A	M4x12	4	M5x16	6	M6x16	8
P8-38A-55A	M4x12	4	M5x12	6	M5x16	6
P8-38A-57A	M4x12	4	M5x12	6	M4x12	3
P8-38A-58AA	M4x12	4	M5x14	6	M4x16	3
P8-38A-60AA	M4x12	4	M5x14	6	M4x16	3
P8-38A-60P	M4x12	4	M5x18	6	M4x16	3
P8-38A-60R	M4x12	4	M5x14	6	M4x16	3
P8-38A-60RA	M4x12	4	M5x14	6	M4x16	3
P8-38A-67A	M4x12	4	M5x16	6	M6x16	8
P8-38A-70A	M4x12	4	M5x14	6	M5x20	6
P8-38A-70AA	M4x12	4	M5x14	6	M5x20	6
P8-38A-87A	M4x12	4	M5x18	6	M6x20	10
P10-38A-55A	M4x12	4	M5x12	6	M5x16	6
P10-38A-57A	M4x12	4	M5x12	6	M4x12	3
P10-38A-60P	M4x12	4	M5x18	6	M4x16	3
P10-38A-67A	M4x12	4	M5x16	6	M6x16	8
P10-38A-70A	M4x12	4	M5x14	6	M5x20	6
P10-38A-87A	M4x12	4	M5x18	6	M6x20	10

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