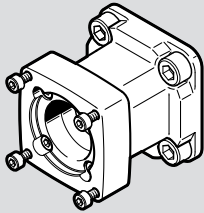


EAMM-A-D...-...A/P/R-3

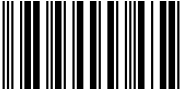
Axial kit



FESTO

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8245940

Assembly instructions

8245940
2025-11k
[8245942]

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.
- 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 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-D40-87A
D40: axis interface
87A: motor interface

Axis interface	Axis
D19	EGSL-35
D32	ESBF-32, EGSL-45, EHMB-20, ERMB-20 ¹⁾
D40	ESBF-40, EGSL-55, EHMB-25, ERMB-25
D50	ESBF-50
D60	ESBF-63, EGSL-75, EHMB-32, ERMB-32

Axis interface	Axis
D80	ESBF-80
D100	ESBF-100

1) EAMM-A-D32-40A/40P is not permissible for ERMB/EHMB-20.

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
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
67A	EMCA-EC-67
70A	EMMS-AS-70, third-party motor
70AA	Third-party motor
80P	EMMB-/EMME-/EMMT-AS-80, third-party motor
80PB	Third-party motor
82AA	Third-party motor
84AA	Third-party motor
87A	EMMB-/EMMS-/EMMT-ST-87
90R	Third-party motor
92RA	Third-party motor
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

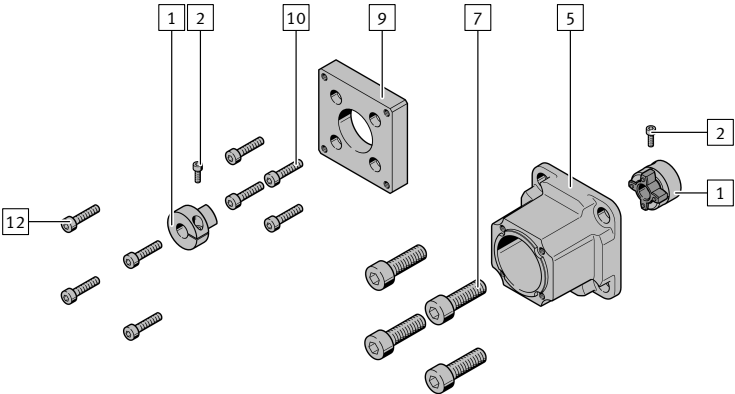


Fig. 1: Scope of delivery EAMM-A-D19/D32-28A/-40A/-40P

- | | | | |
|---|-----------------------|----|-------------------|
| 1 | Coupling hub (2x) | 9 | Motor flange (1x) |
| 2 | Clamping screw (2x) | 10 | Screw (4x) |
| 5 | Coupling housing (1x) | 12 | Screw (4x) |
| 7 | Screw (4x) | | |

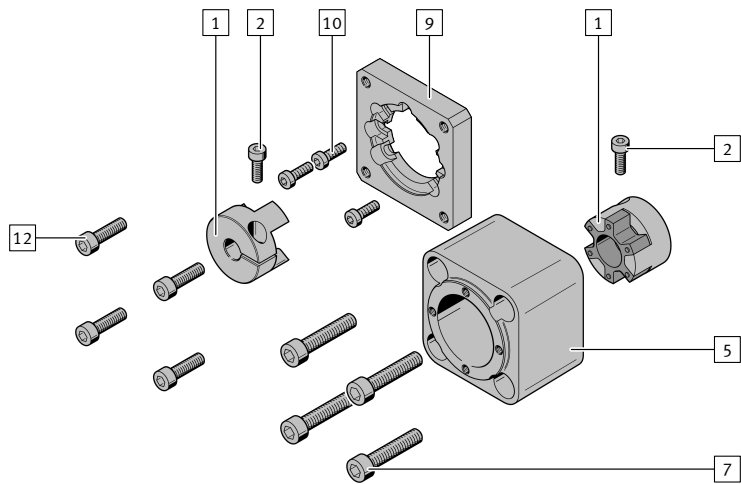


Fig. 2: Scope of delivery EAMM-A-D....A/P/R

- | | |
|-------------------------|---------------------|
| 1 Coupling hub (2x) | 9 Motor flange (1x) |
| 2 Clamping screw (2x) | 10 Screw (3x/4x) |
| 5 Coupling housing (1x) | 12 Screw (4x) |
| 7 Screw (4x) | |



Fig. 3: Supplement to reducing sleeve

- 30 Reducing sleeve (4x)

5 Mounting

5.1 Assembling

5.1.1 Preassembly of reducing sleeves

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.

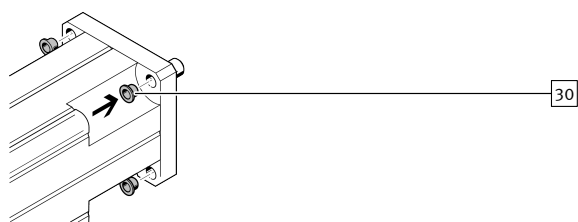


Fig. 4: Inserting reducing sleeves

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

5.1.2 Preassembly of coupling

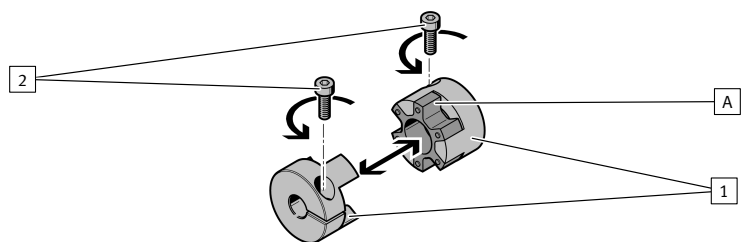


Fig. 5: Disconnecting coupling

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

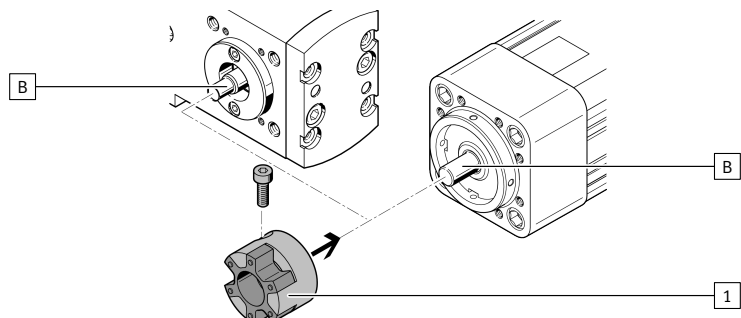


Fig. 6: Pushing on coupling hub, axis side

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

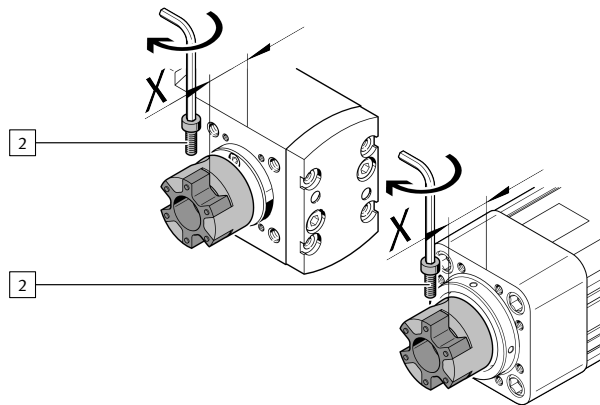


Fig. 7: Aligning coupling hub, axis side

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

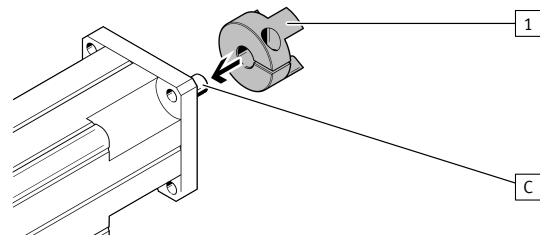


Fig. 8: Pushing on coupling hub, motor side

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

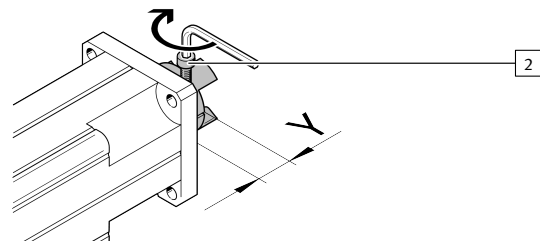


Fig. 9: Aligning coupling hub, motor side

- Maintain distance (Y) → 5.1.3 Alignment of coupling.
- Tighten all clamping screws [2] on the motor side.

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.

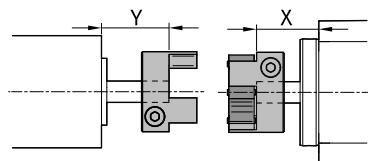


Fig. 10: Aligning coupling hubs

EAMM-A	motor side	axis side
	$Y \pm 0.5$ [mm]	$X \pm 0.5$ [mm]
D19-38AA	25.7	18.5
D19-40A	17.2	18.5
D19-40P	20.2	18.5
D19-40R	25.7	18.5
D32-40A	16.1	16.7
D32-40P	20.3	16.7
D32-40R	20.2	18.2
D32-40RA	20.2	18.2
D32-55A	19.6	18.2
D32-57A	20.9	18.2
D32-58AA	21.6	18.2
D32-60AA	21.1	18.2
D32-60P	30.1	18.2
D32-67A	25	18.2

EAMM-A	motor side	axis side
	Y ± 0.5 [mm]	X ± 0.5 [mm]
D40-55A	19.1	18.7
D40-57A	20.4	18.7
D40-58AA	21.1	18.7
D40-60AA	20.6	18.7
D40-60P	29.6	18.7
D40-67A	24.5	18.7
D40-70A	21.9	18.7
D40-70AA	23.4	18.7
D40-87A	23.9	18.7
D50-70A	23.8	27.7
D50-80P	36	27.7
D50-80PB	36	27.7
D50-82AA	26.3	27.7
D50-84AA	36.3	27.7
D60-70A	23	23.5
D60-80P	35.2	23.5
D60-80P-G2	35.5	23.5
D60-80PB	35.5	23.5
D60-82AA	25.5	23.5
D60-84AA	35.5	23.5
D60-87A	25.5	23.5
D60-90R	35.5	23.5
D60-92RA	35.5	23.5
D60-100A	38.7	23.5
D80-84AA	33.3	33.5
D80-100A	40.3	33.5
D100-100A	40.2	41.1

Tab. 4: Coupling distances X and Y

5.1.4 Connection of motor and axis EGSL, ESBF

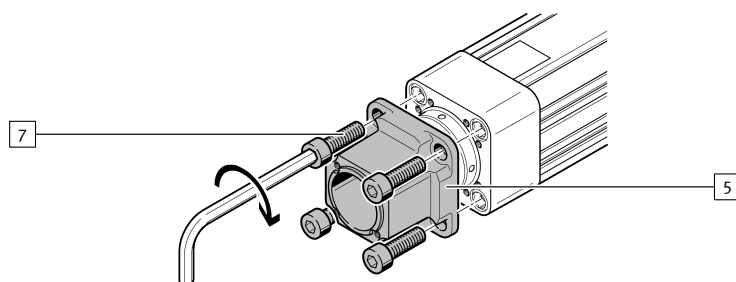


Fig. 11: Mounting coupling housing

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

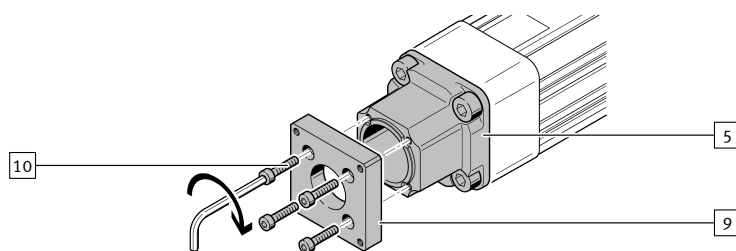


Fig. 12: Mounting motor flange

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

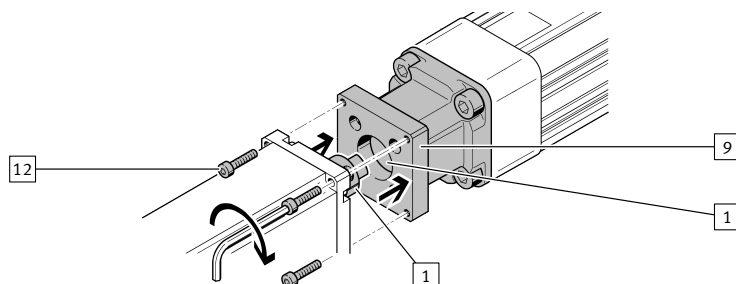


Fig. 13: Mounting motor

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

5.1.5 Connection of motor and axis EHMB, ERM B

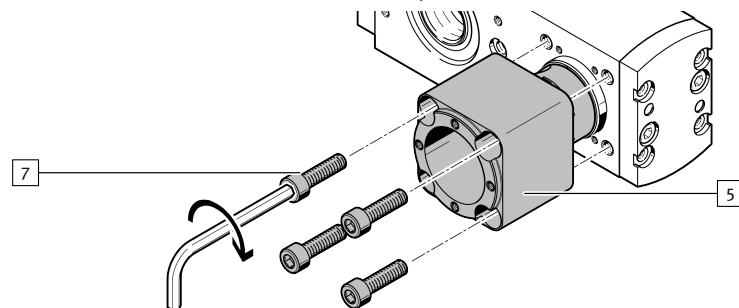


Fig. 14: Mounting coupling housing

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

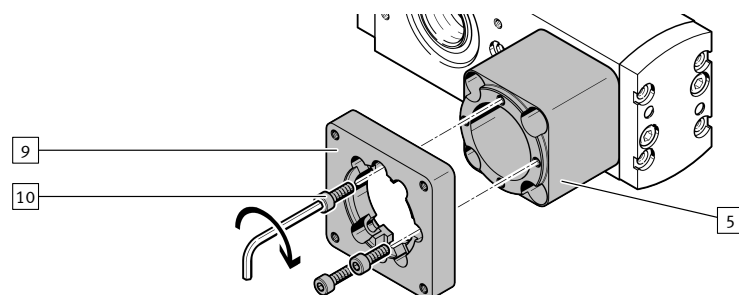


Fig. 15: Mounting motor flange

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

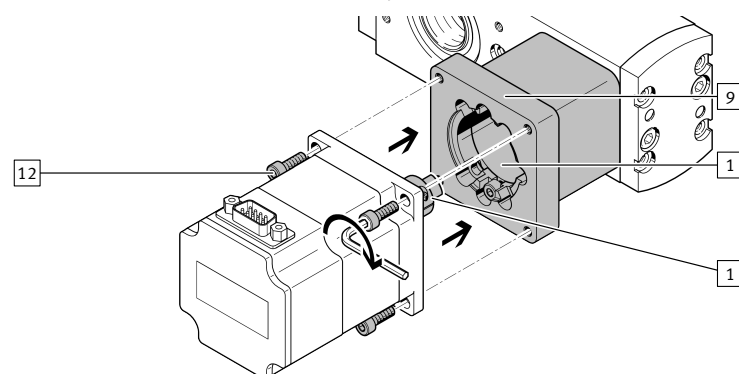


Fig. 16: Mounting motor

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

5.2 Integration

5.2.1 Supporting frame for the axis-motor combination

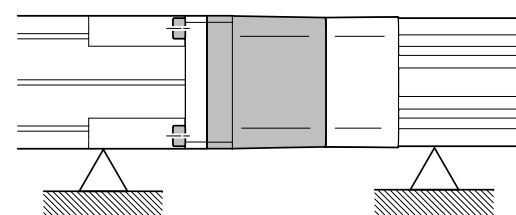


Fig. 17: Supporting frame for the axis-motor combination

- 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]	[12]	[Nm]
D19-38AA	M2x6	0.5	M4x16	2.5	M3x14	1.2	M3x14	1.2
D19-40A	M2x6	0.5	M4x16	2.5	M3x12	1.2	M3x16	1.2
D19-40P	M2x6	0.5	M4x16	2.5	M3x10	1.2	M3x12	1.2
D19-40R	M2x6	0.5	M4x16	2.5	M3x14	1.2	M4x12	3
D32-40A	M2x6	0.5	M6x20	5/6 ¹⁾	M3x14	1.2	M3x14	1.2
D32-40P	M2x6	0.5	M6x20	5/6 ¹⁾	M3x12	1.2	M3x12	1.2
D32-40R	M4x12	4	M6x22/ M6x30	5/6/10 ²⁾	M4x12	3	M4x14	3
D32-40RA	M4x12	4	M6x22/ M6x30	5/6/10 ²⁾	M4x12	3	M4x14	3
D32-55A	M4x12	4	M6x22/ M6x30	5/6 ¹⁾	M4x12	2.4	M5x18	6
D32-57A	M4x12	4	M6x22/ M6x30	5/6 ¹⁾	M4x12	3	M4x12	3
D32-58AA	M4x12	4	M6x22/ M6x30	5/6/10 ²⁾	M4x12	3	M4x16	3
D32-60AA	M4x12	4	M6x22/ M6x30	5/6/10 ²⁾	M4x12	3	M4x16	3
D32-60P	M4x12	4	M6x22/ M6x30	5/6 ¹⁾	M4x20	3	M4x16	3
D32-67A	M4x12	4	M6x22/ M6x30	5/6 ¹⁾	M4x12	3	M4x18	8
D40-55A	M4x12	4	M6x30	5/6 ¹⁾	M4x12	2.4	M5x18	6
D40-57A	M4x12	4	M6x30	5/6 ¹⁾	M4x12	3	M4x12	3
D40-58AA	M4x12	4	M6x30	5/6 ¹⁾	M4x12	3	M4x16	3
D40-60AA	M4x12	4	M6x30	5/6 ¹⁾	M4x12	3	M4x16	3
D40-60P	M4x12	4	M6x30	5/6 ¹⁾	M4x20	3	M4x16	3
D40-67A	M4x12	4	M6x30	5/6 ¹⁾	M4x12	3	M6x16	8
D40-70A	M4x12	4	M6x30	5/6 ¹⁾	M4x12	2.4	M5x18	6
D40-70AA	M4x12	4	M6x30	5/6 ¹⁾	M4x12	3	M5x18	6
D40-87A	M4x12	4	M6x30	5/6 ¹⁾	M4x16	3	M6x22	10
D50-70A	M5x18	8	M8x50	12	M6x16	8	M5x20	6
D50-80P	M5x18	8	M8x65	12	M6x16	10	M5x20	6
D50-80PB	M5x18	8	M8x65	12	M6x16	10	M5x20	6
D50-82AA	M5x18	8	M8x50	12	M6x16	10	M6x20	10
D50-84AA	M5x18	8	M8x65	12	M6x16	10	M6x25	10
D60-70A	M5x18	8	M8x25/ M8x30	9/12 ³⁾	M6x16	8	M5x20	6
D60-80P	M5x18	8	M8x33/ M8x40	9/12 ³⁾	M6x16	10	M5x20	6
D60-80P-G2	M5x18	8	M8x45/ M8x50	9/12 ³⁾	M6x16	10	M5x20	6
D60-80PB	M5x18	8	M8x45/ M8x50	9/12 ³⁾	M6x16	10	M5x20	6
D60-82AA	M5x18	8	M8x25/ M8x30	9/12 ³⁾	M6x16	10	M6x20	10
D60-84AA	M5x18	8	M8x45/ M8x50	9/12 ³⁾	M6x16	10	M6x25	10
D60-87A	M5x18	8	M8x25/ M8x30	9/ 12 ³⁾	M6x16	10	M6x20	10
D60-90R	M5x18	8	M8x25/ M8x30	9/ 12 ³⁾	M6x20	10	M6x20	10
D60-92RA	M5x18	8	M8x22/ M8x30	9/ 12 ³⁾	M6x20	10	M6x20	10
D60-100A	M5x18	8	M8x33/ M8x40	9/12 ³⁾	M6x20	10	M8x25	18
D80-84AA	M6x20	12	M10x70	25	M6x16	10	M6x20	10
D80-100A	M6x20	12	M10x70	25	M6x20	10	M8x20	18
D100-100A	M6x20	12	M10x80	25	M6x20	10	M8x20	18

1) With axis EGSL: 5 Nm; EHMB, ERMB, ESBF: 6 Nm
2) With axis EGSL: 5 Nm; ESBF: 6 Nm; EHMB/ERMB: 10 Nm
3) With axis EGSL: 9 Nm; EHMB, ERMB, ESBF: 12 Nm

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