

# **PARTS MANUAL**

**HL-140-160-190 E12**  
**N-120-140-165EL12**

*May 2015*

**HOLLAND LIFT**

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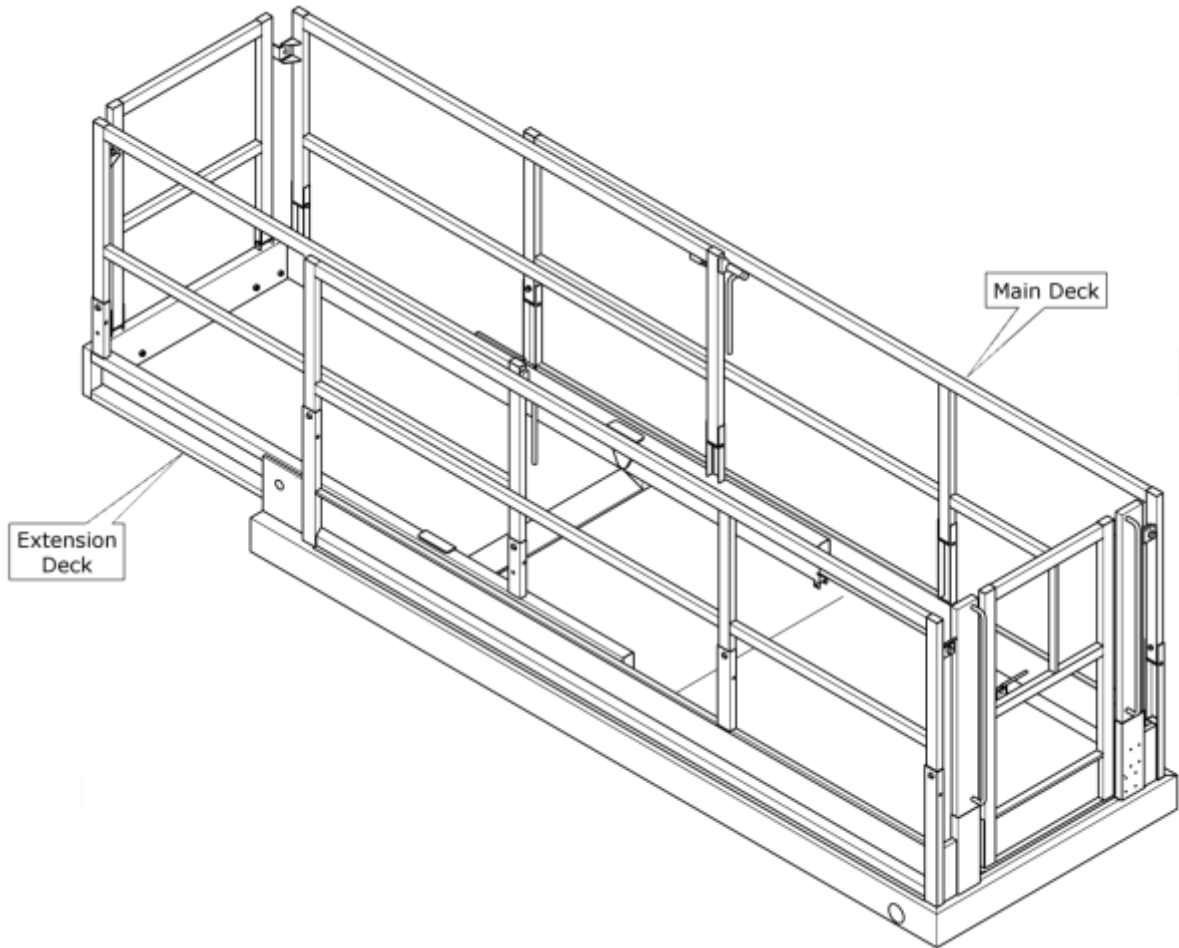
Designer and creator : **L. Sussenbach-Kortoeef**

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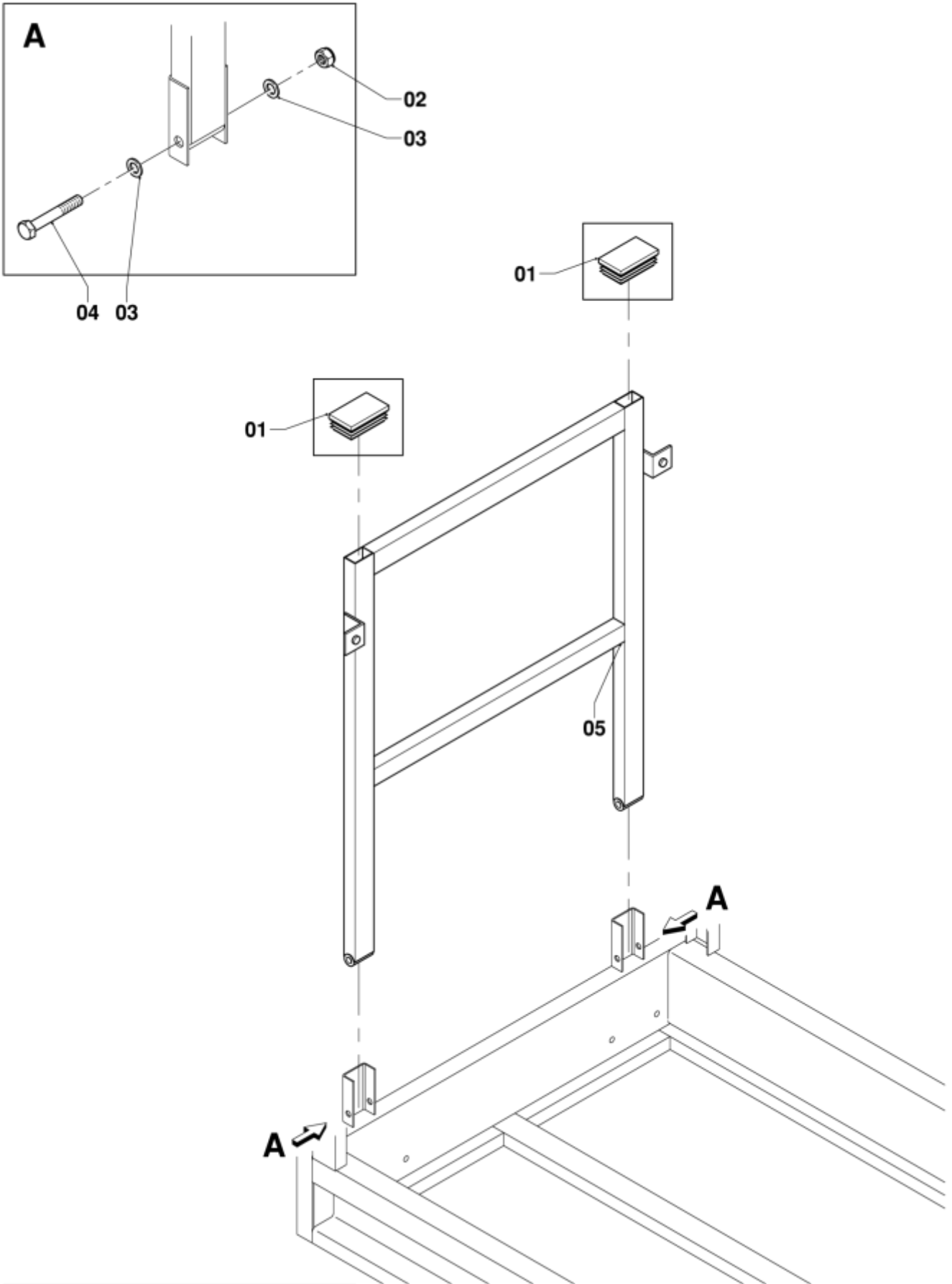
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# SECTION PLATFORM

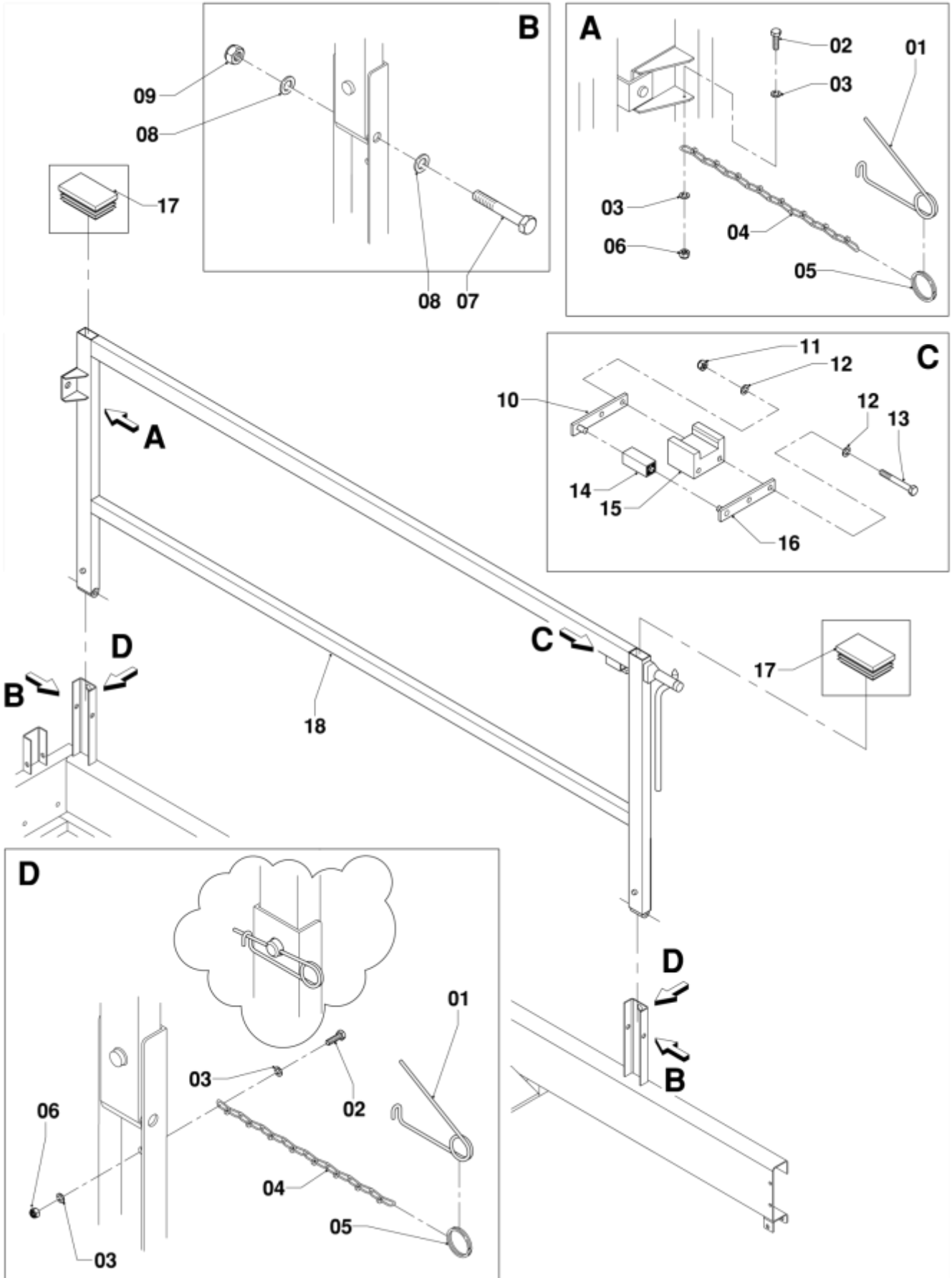


## Extension Deck 1



<b>Item</b>	<b>Qty</b>	<b>Part number</b>	<b>Description</b>
1	2	STOP050	Plug
2	2	12300.100.001	Nut, DIN 985
3	4	38130.100.001	Washer, DIN 125-A
4	2	01200.100.080	Bolt, DIN 931
5	1	V12-02-62-1	Railing

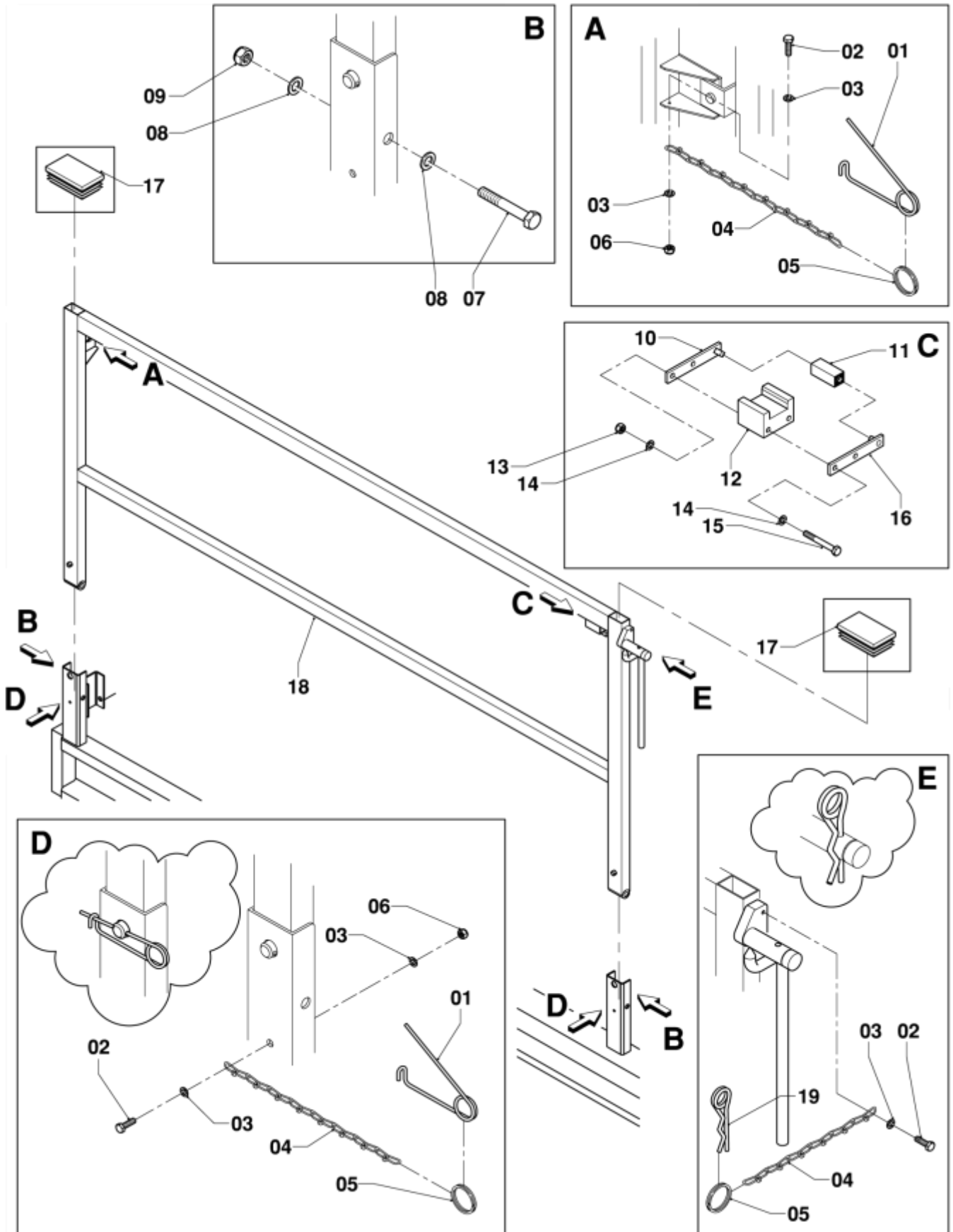
### Extension Deck 2





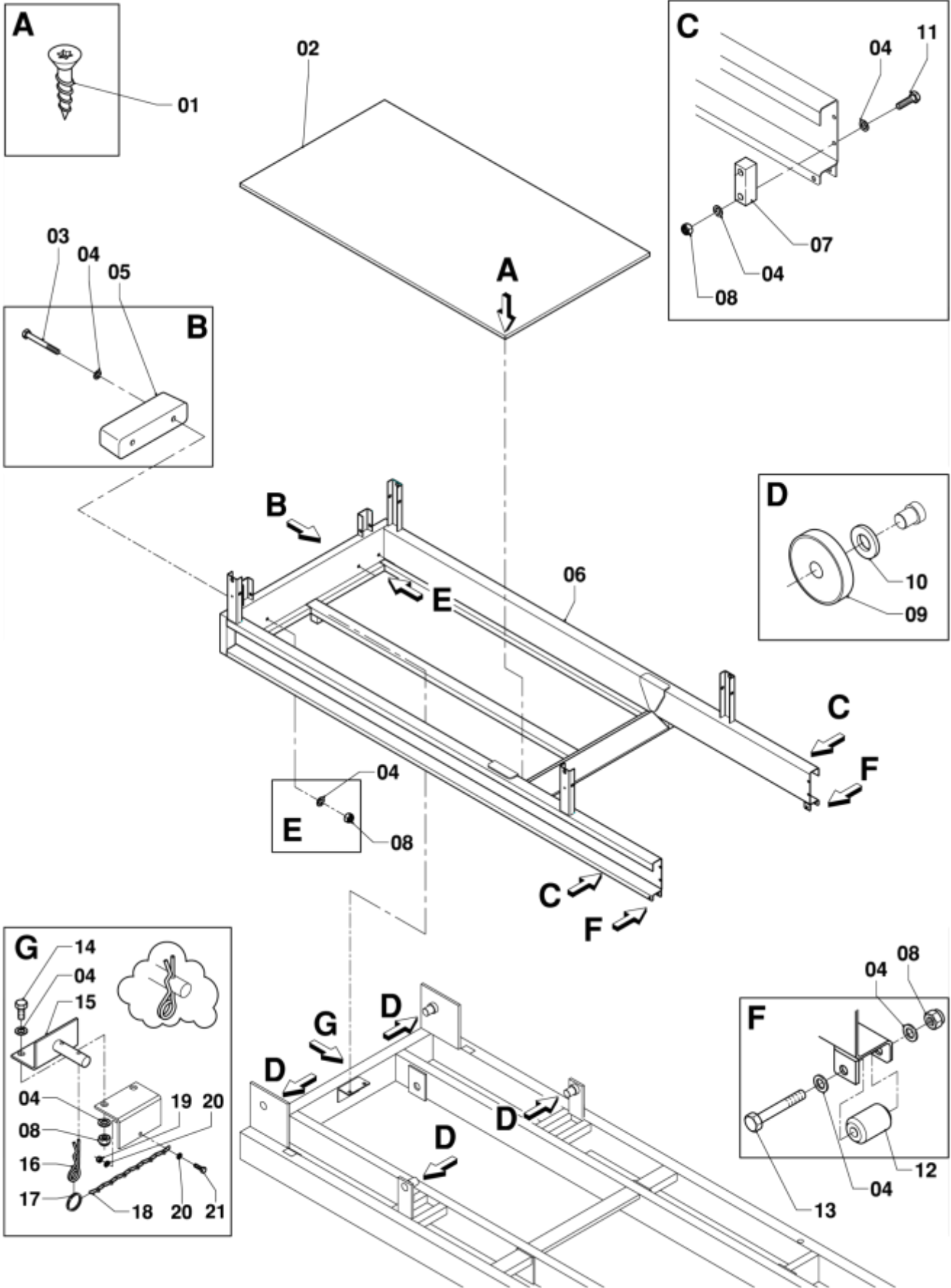
Item	Qty	Part number	Description
1	3	VEER001	Locking pin
2	4	01210.050.020	Bolt, DIN 933
3	7	38130.050.001	Washer, DIN 125-A
4	4	KETTING010	Chain
5	4	RING01	Key ring
6	3	12300.050.001	Nut, DIN 985
7	2	1200.100.080	Bolt, DIN 931
8	4	38130.100.001	Washer, DIN 125-A
9	2	12300.100.001	Nut, DIN 985
10	1	N-01-50-1	Lever, left
11	2	12300.060.001	Nut, DIN 985
12	4	38130.060.001	Washer, DIN 125-A
13	2	1200.060.080	Bolt, DIN 931
14	1	SPANELEM001	Torsion spring
15	1	N-01-50-2	Sliding block
16	1	N-01-50-3	Lever, right
17	2	STOP050	Plug
18	1	V12-02-62-2	Railing

### Extension Deck 3



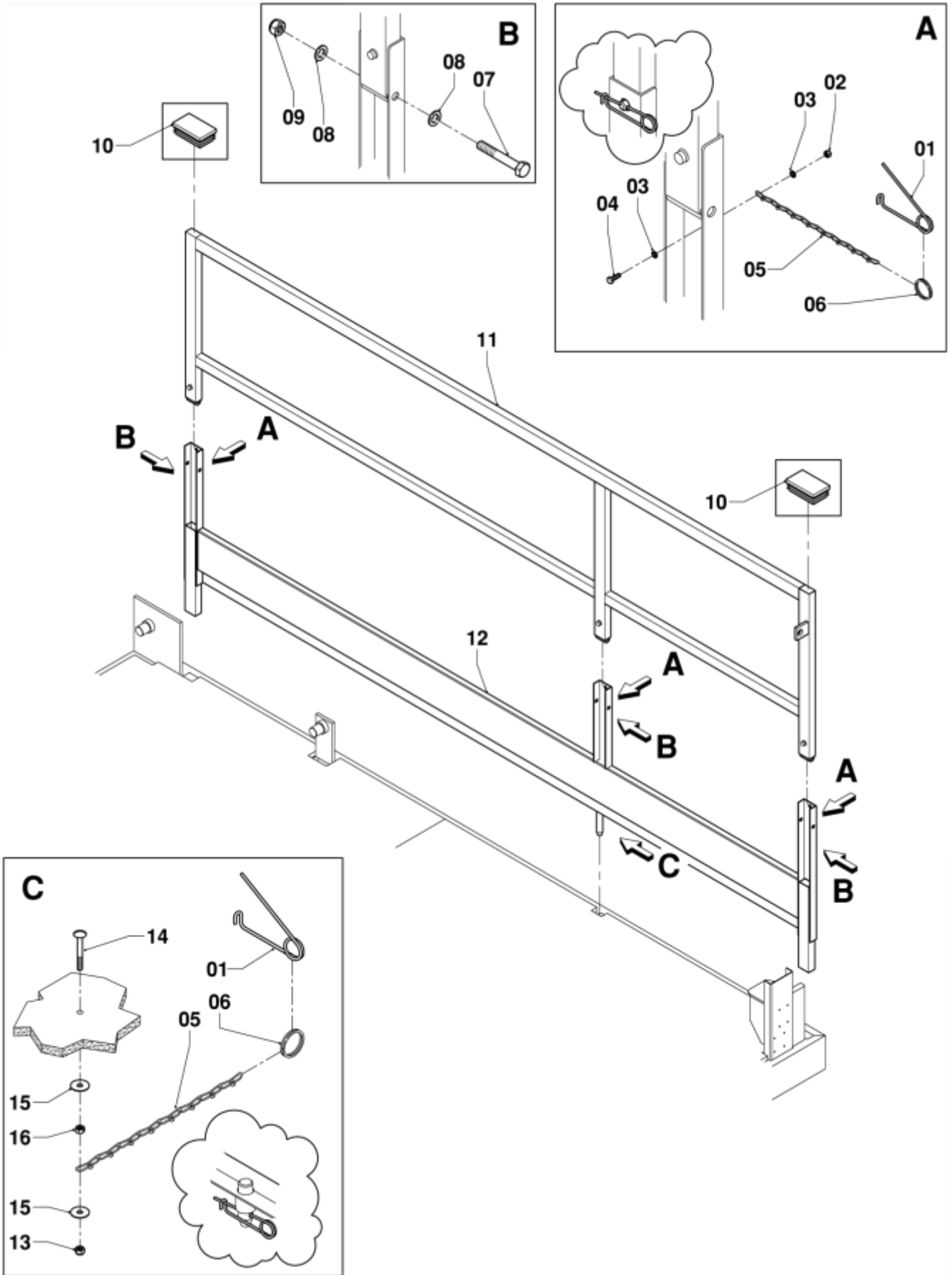
Item	Qty	Part number	Description
1	3	VEER001	Locking pin
2	3	01210.050.020	Bolt, DIN 933
3	6	38130.050.001	Washer, DIN 125-A
4	3	KETTING010	Chain
5	3	RING01	Key ring
6	3	12300.050.001	Nut, DIN 985
7	2	01200.100.080	Bolt, DIN 931
8	4	38130.100.001	Washer, DIN 125-A
9	2	12300.100.001	Nut, DIN 985
10	1	N-01-50-1	Lever, right (STRIP010)
11	1	SPANELEM001	Tensioning spring
12	1	N-01-50-2	Sliding block (GLIJBLOK015)
13	2	12300.060.001	Nut, DIN 985
14	4	38130.060.001	Washer, DIN 125-A
15	2	01200.060.080	Bolt, DIN 931
16	1	N-01-50-1	Lever, left (STRIP010)
17	2	STOP050	Plug
18	1	V12-02-62-3	Railing

### Extension Deck 4



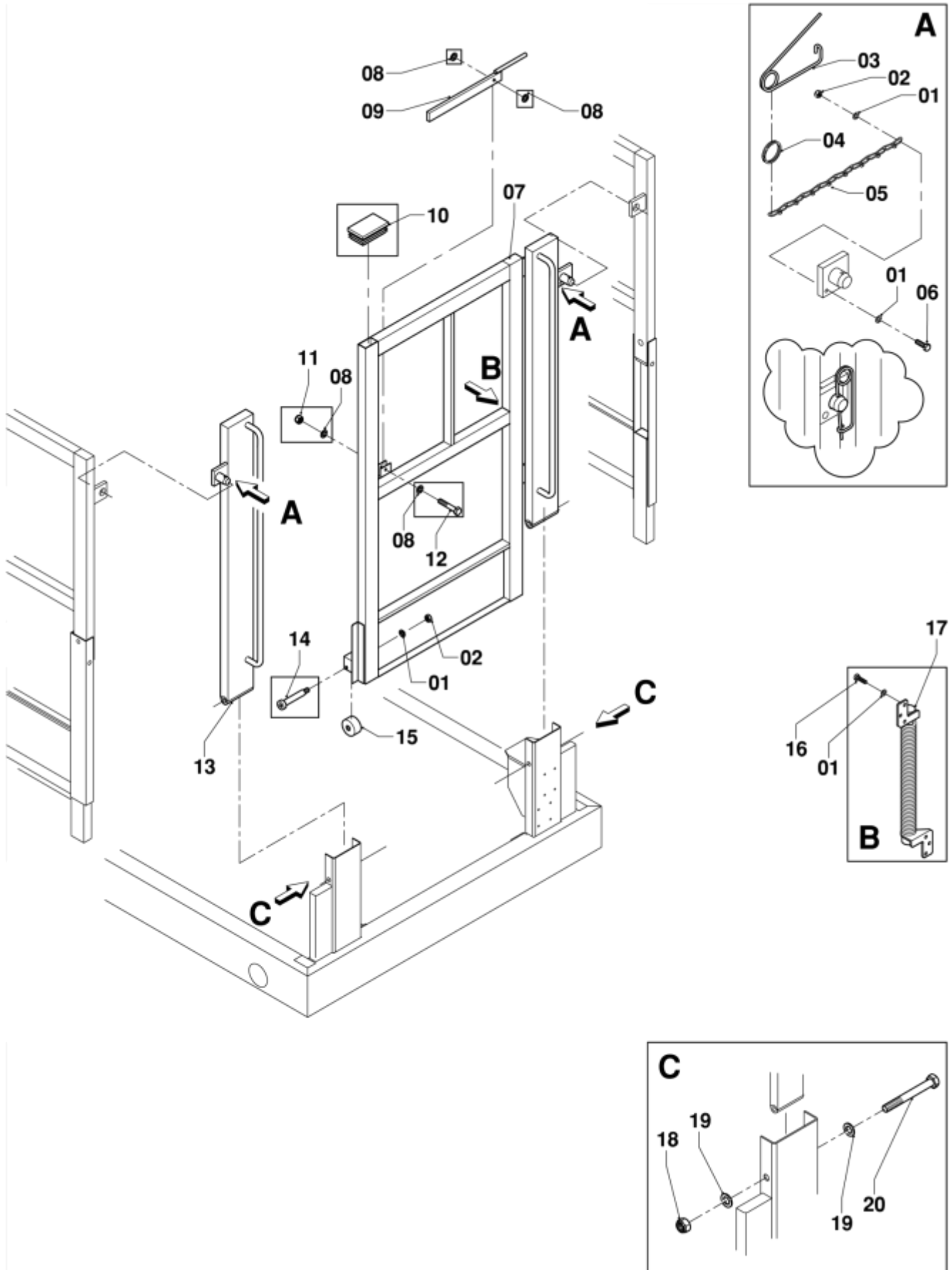
Item	Qty	Part number	Description
1	-	SPEDEC 50	Screw 6,3x38 (¼-1½) DIN 7982 C-T
2	1	V12-02-52-1	Floor plate (HOUT362)
3	4	01200.100.085	Bolt, DIN 931
4	24	38130.100.001	Washer, DIN 125-A
5	2	STOOTR20	Buffer
6	1	V12-02-51-1	Extension frame
7	2	V12-02-51-2	Stop block
8	12	12300.100.001	Nut, DIN 985
9	4	V-01-50	Plastic wheel (LOOPROL25)
10	4	38.130.360.001	Washer, DIN 125-A
11	4	01200.100.045	Bolt, DIN 931
12	2	V-01-53	Roller (ERTALON61)
13	2	01200.100.075	Bolt, DIN 931
14	2	01210.100.030	Bolt, DIN 933
15	1	X-01-46	Bracket (BORG.BORDES)
16	1	HAARSP030	Locking pin
17	1	RING01	Key ring
18	1	KETTING010	Chain
19	1	12300.050.001	Nut, DIN 985
20	2	38130.050.001	Washer, DIN 125-A
21	1	01210.050.020	Bolt, DIN 933

# Main Deck 1



Item	Qty	Part number	Description
1	4	VEER001	Locking pin
2	3	12300.050.001	Nut, DIN 985
3	6	38130.050.001	Washer, DIN 125-A
4	3	01210.050.020	Bolt, DIN 933
5	4	KETTING010	Chain
6	4	RING01	Key ring
7	3	01200.120.080	Bolt, DIN 931
8	6	38130.120.001	Washer, DIN 125-A
9	3	12300.120.001	Nut, DIN 985
10	2	STOP050	Plug
11	1	V12-02-61-1	Railing upper part, left
12	1	V12-02-61-2	Railing lower part, left
13	1	38130.060.001	Washer, DIN 125-A
14	1	08250.050.025	Bolt, DIN 603/555
15	2	38400.050.025	Washer
16	1	01300.050.001	Nut, DIN 934

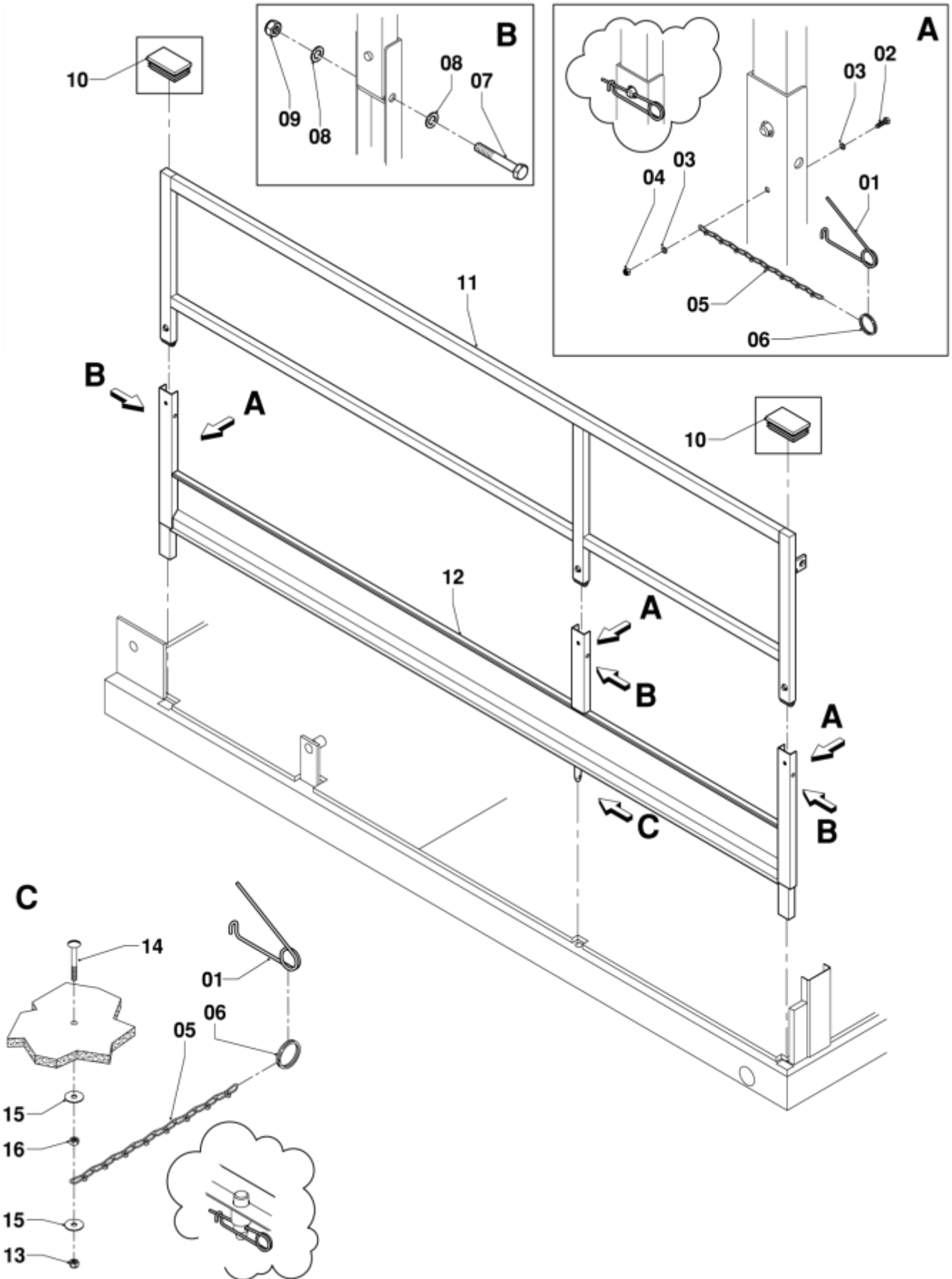
## Main Deck 2





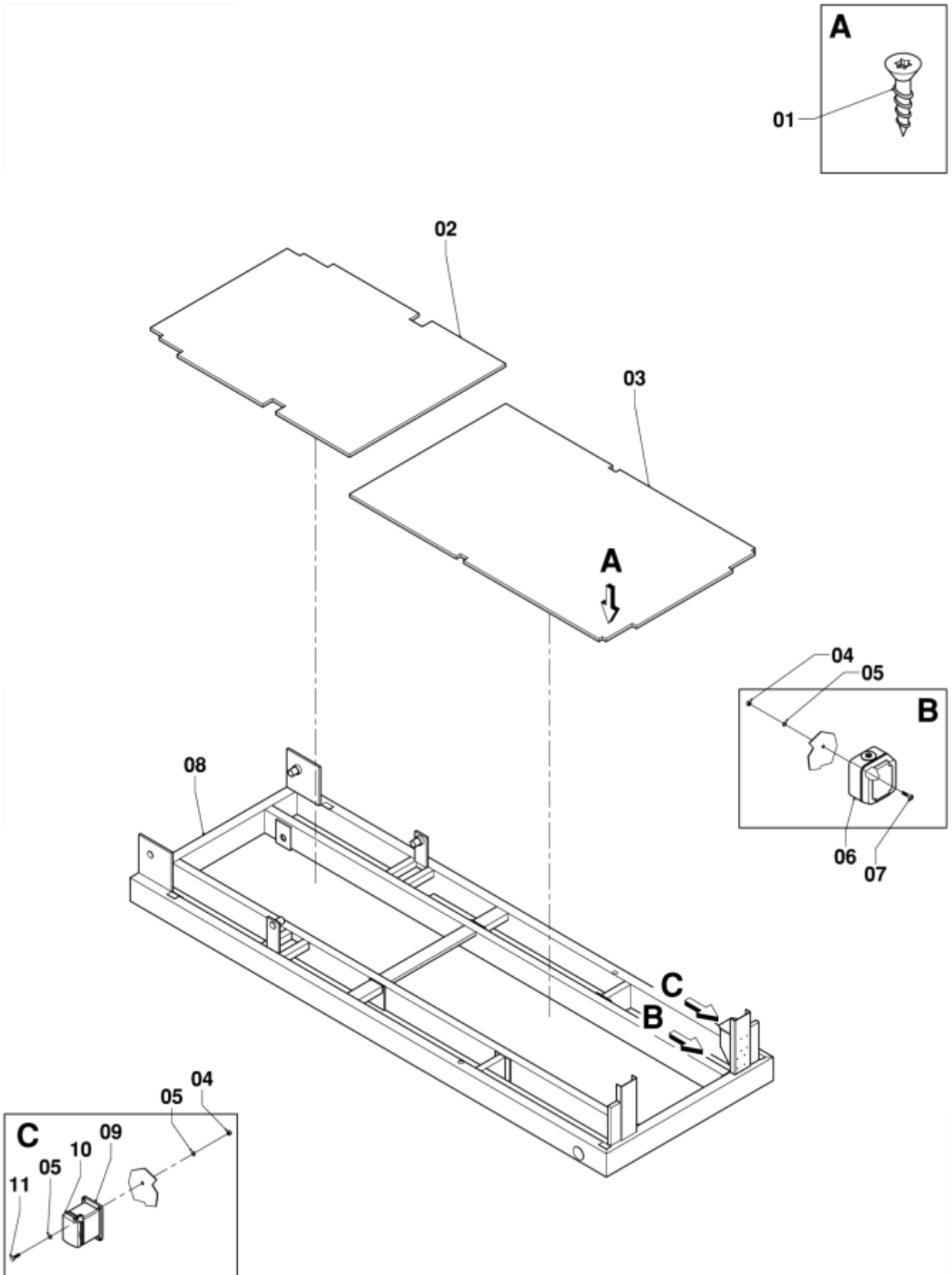
Item	Qty	Part number	Description
1	11	38130.050.001	Washer, DIN 125-A
2	3	12300.050.001	Nut, DIN 985
3	2	VEER001	Locking pin
4	2	RING01	Key ring
5	2	KETTING010	Chain
6	2	01210.050.025	Bolt, DIN 933
7	1	V12-02-61-3	Railing
8	4	38130.060.001	Washer, DIN 125-A
9	1	N-01-13	Latch
10	2	STOP050	Plug
11	1	12300.060.001	Nut, DIN 985
12	1	01210.060.030	Bolt, DIN 933
13	1	V12-02-61-4	Railing
14	1	PASSCHR.M5	M5 ISO 7379 f9 - 12.9
15	1	ERTALON 50	Roller
16	6	01210.050.010	Bolt, DIN 933
17	1	DEURSL.GUNCO	Door spring
18	2	12300.120.001	Nut, DIN 985
19	4	38130.120.001	Washer, DIN 125-A
20	2	07160.120.080	Bolt, DIN 912

### Main Deck 3



Item	Qty	Part number	Description
1	4	VEER001	Locking pin
2	3	12300.050.001	Nut, DIN 985
3	6	38130.050.001	Washer, DIN 125-A
4	3	01210.050.020	Bolt, DIN 933
5	4	KETTING010	Chain
6	4	RING01	Key ring
7	3	01200.120.080	Bolt, DIN 931
8	6	38130.120.001	Washer, DIN 125-A
9	3	12300.120.001	Nut, DIN 985
10	2	STOP050	Plug
11	1	V12-02-61-5	Railing upper part, right
12	1	V12-02-61-6	Railing lower part, right
13	1	38130.060.001	Washer, DIN 125-A
14	1	08250.050.025	Bolt, DIN 603/555
15	2	38400.050.025	Washer
16	1	01300.050.001	Nut, DIN 934

# Main Deck 4

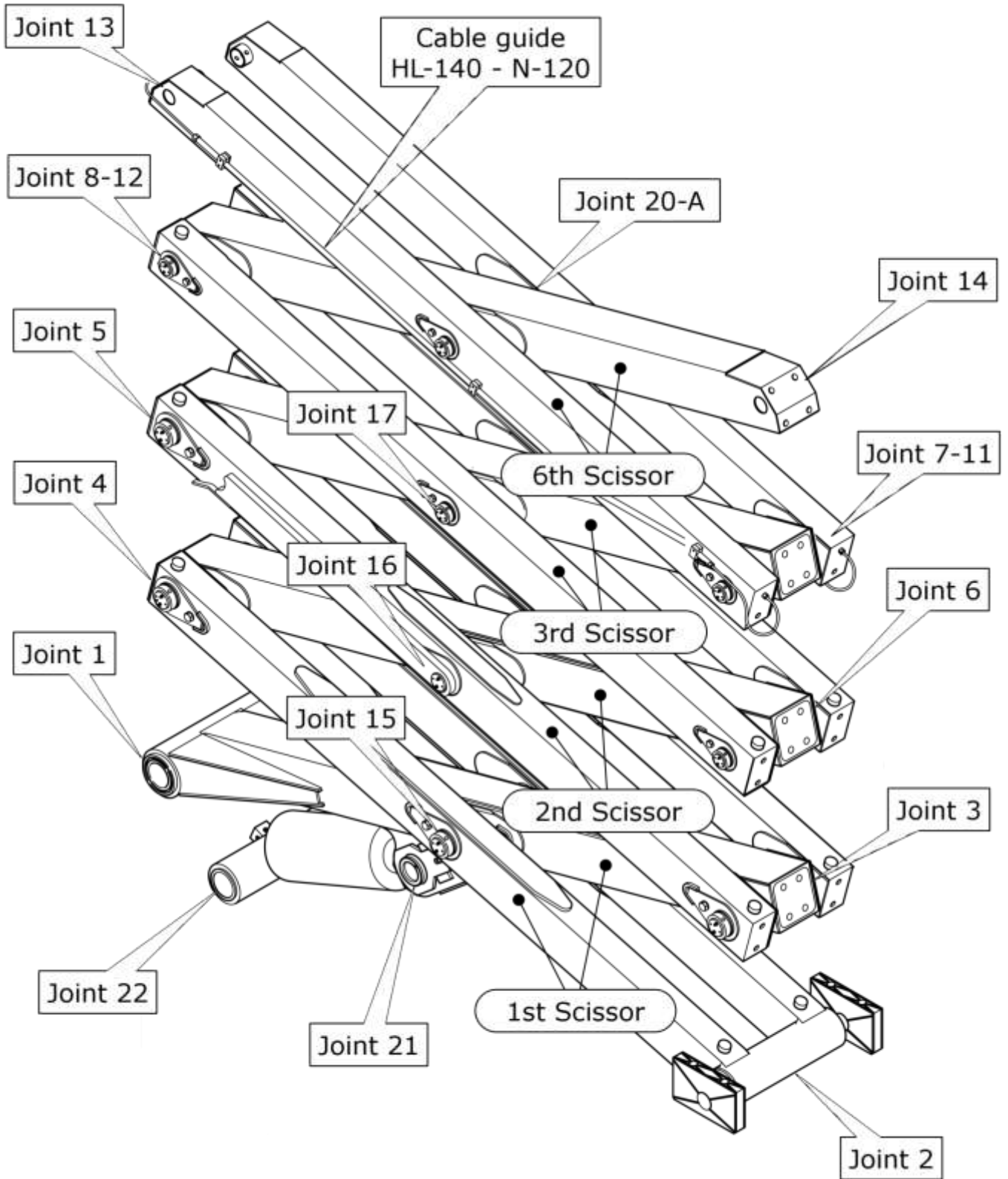


Item	Qty	Part number	Description
1	-	SPEDEC 50	Screw 6,3x38 (¼-1½) DIN 7982 C-T
2	1	V12-02-52-2	Floor plate (HOUT360)
3	1	V12-02-52-3	Floor plate (HOUT361)
4	8	12300.050.001	Nut, DIN 985
5	12	38130.050.001	Washer, DIN 125-A
6	1	CONT.DS220	Socket outlet (230 V)
7	4	24520.050.020	Screw, DIN 84
8	1	V12-02-48	Solid platform frame
9	1	STEKH 6P	Housing
10	1	STEK B 6B	Female insert
11	4	01210.050.020	Bolt, DIN 933



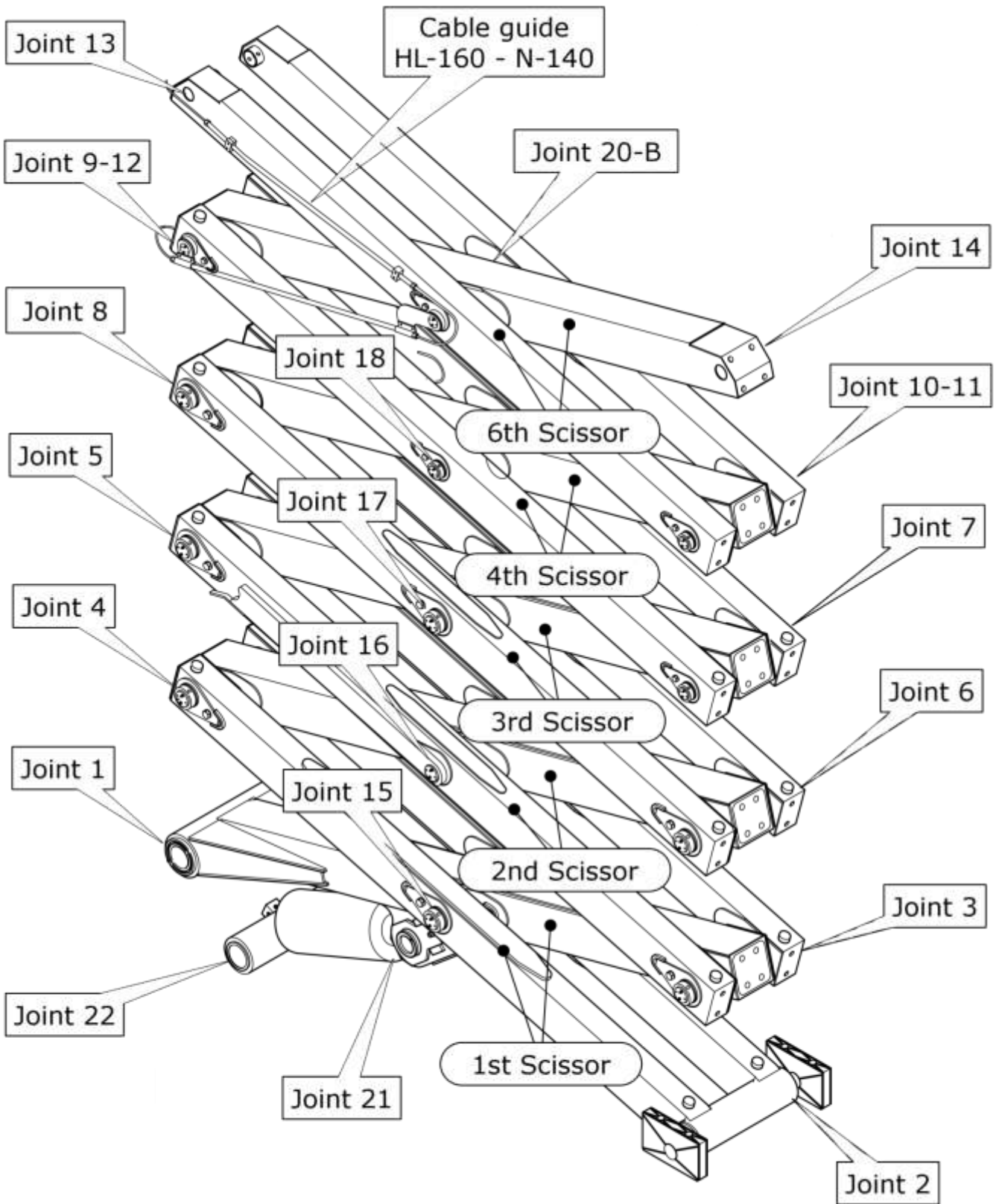
# **SECTION SCISSOR**

### Scissor Overview HL-140 - N-120

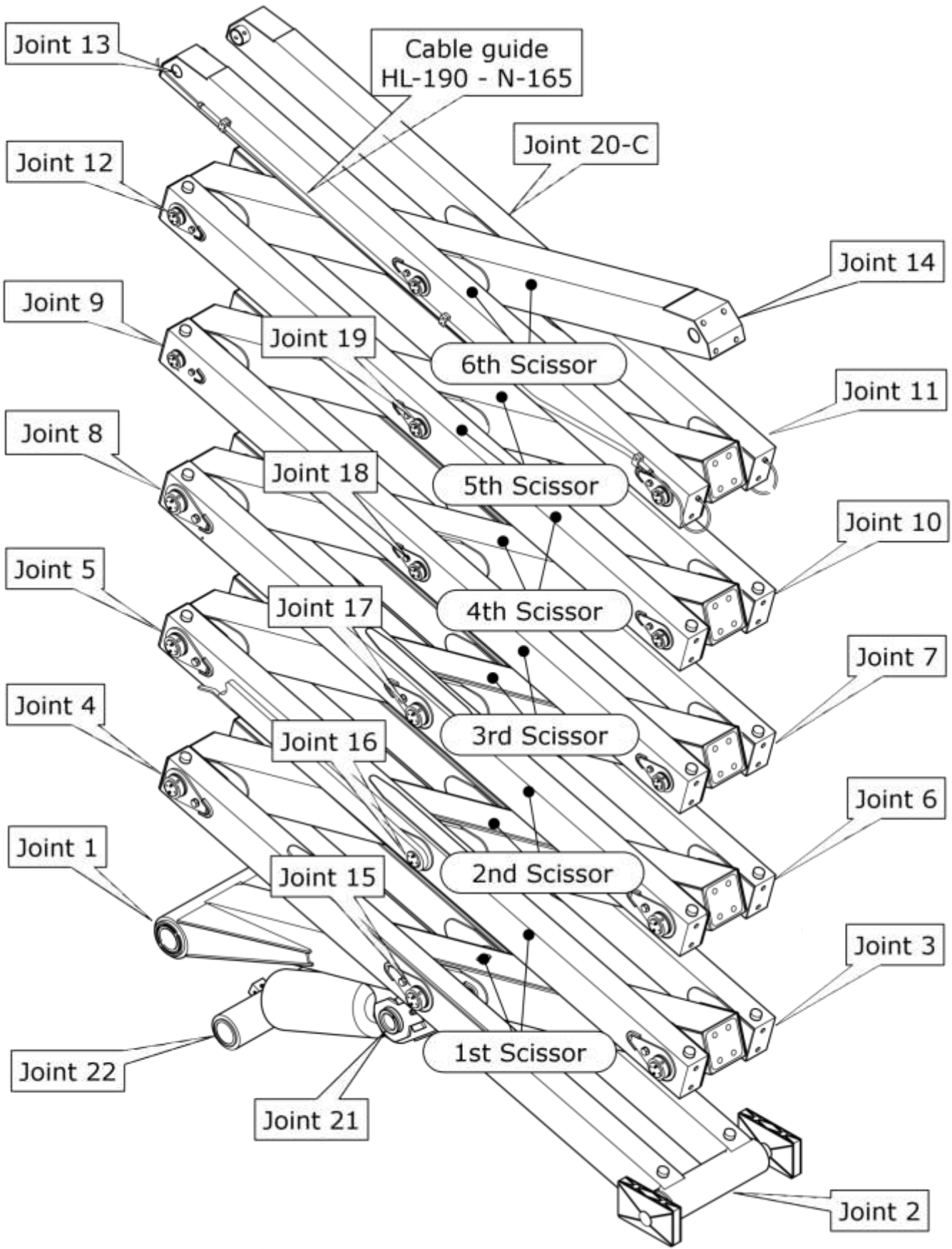




### Scissor Overview HL-160 - N-140

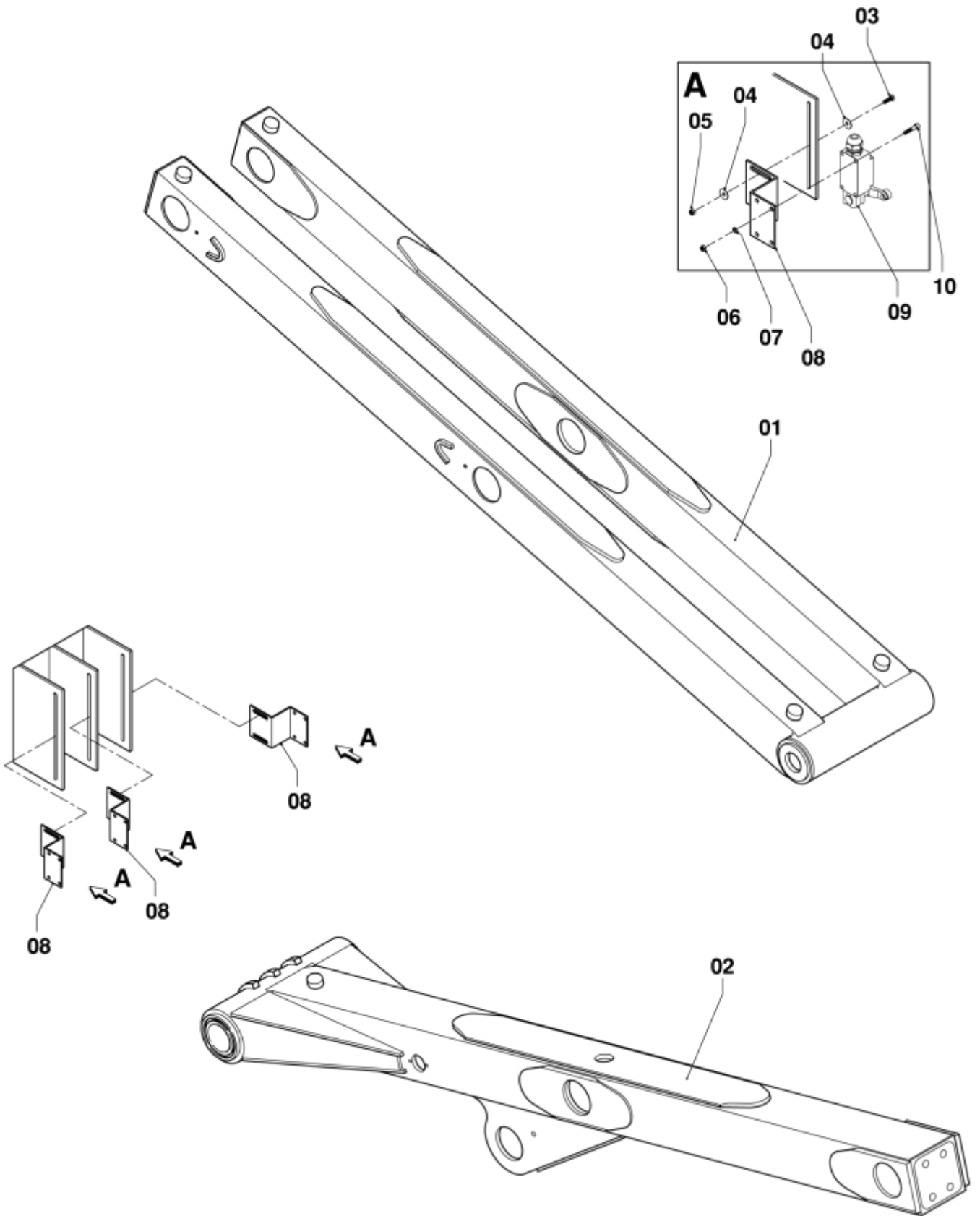


### Scissor Overview HL-190 - N-165



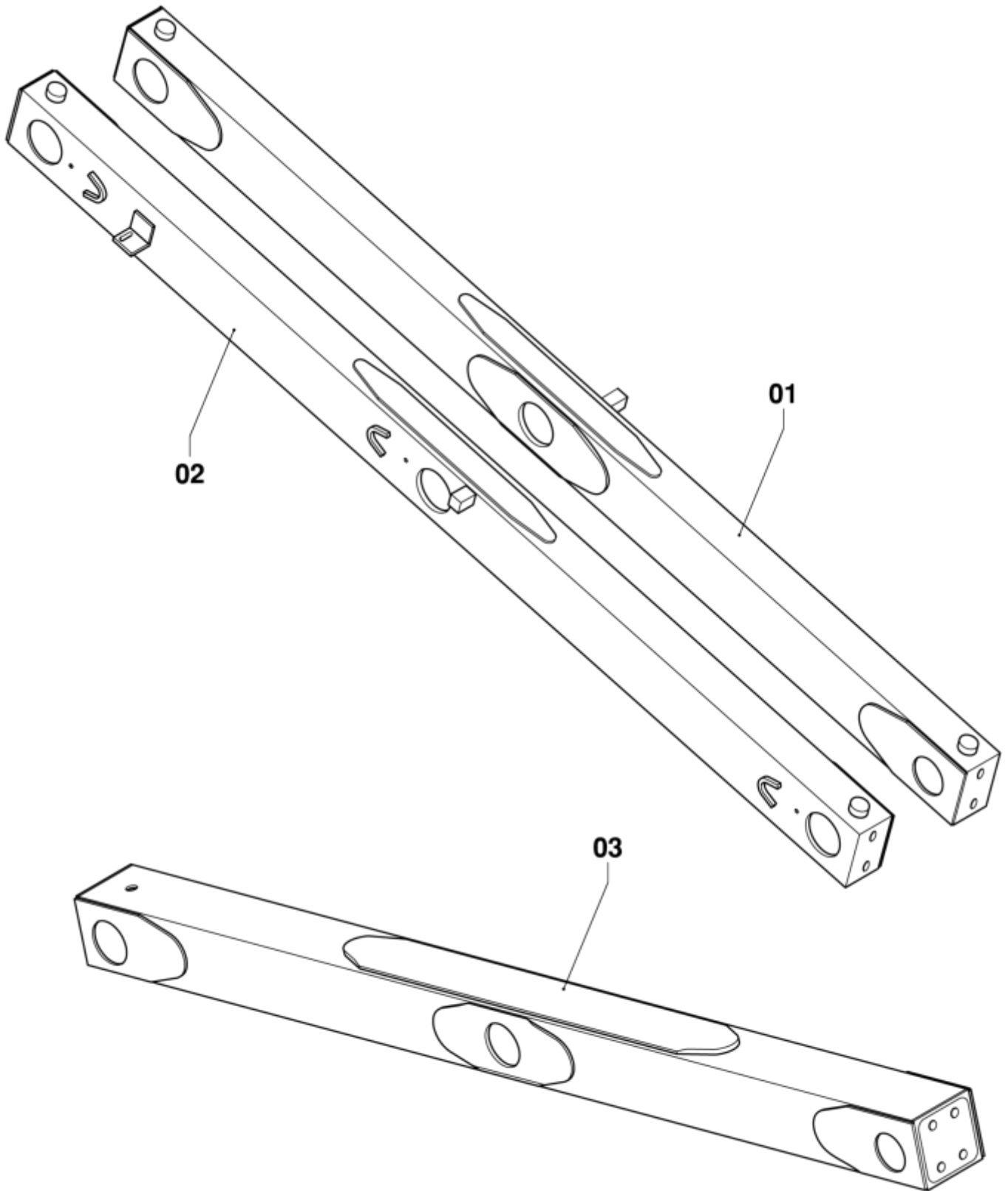


# 1st Scissor arms



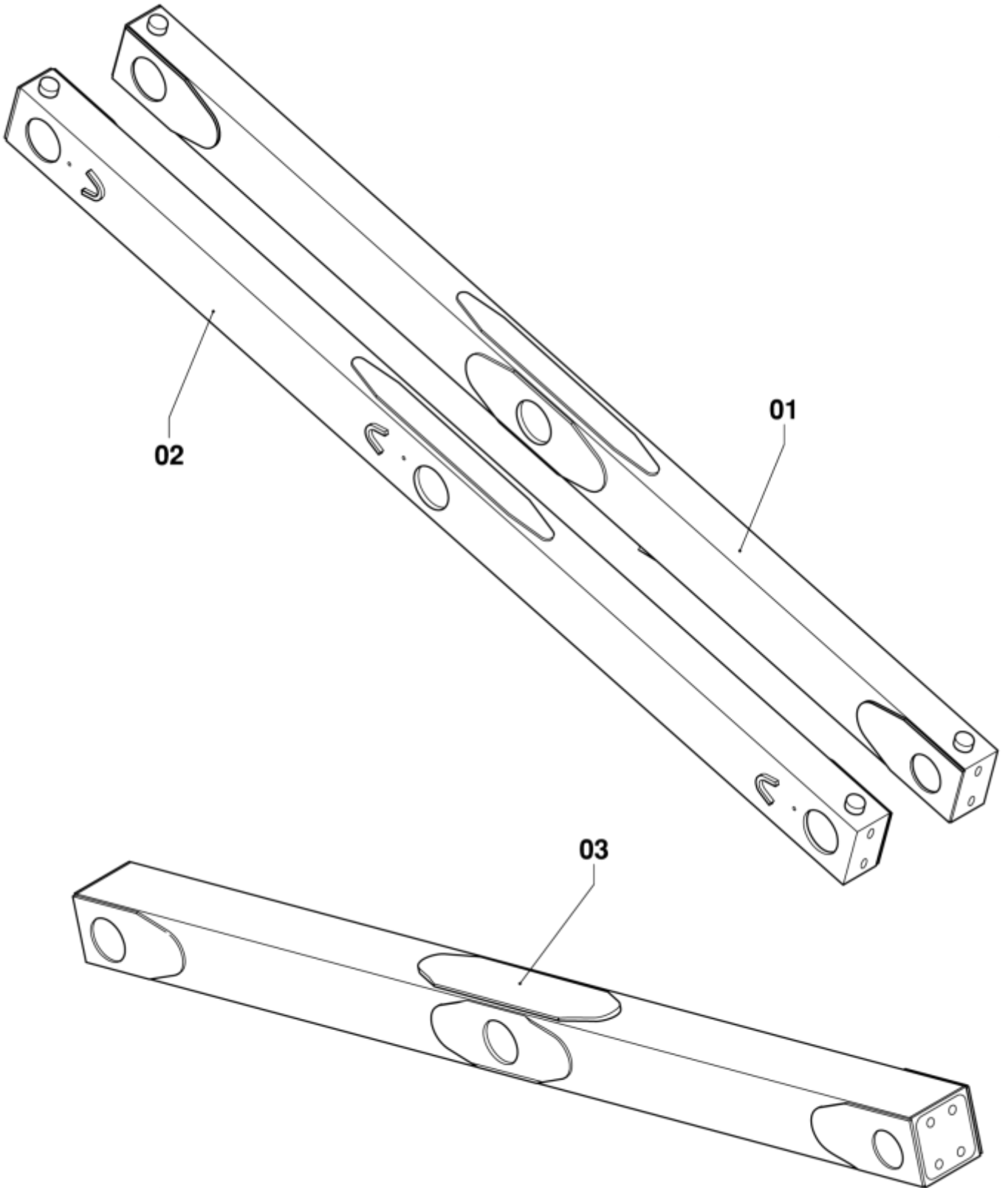
Item	Qty	Part number	Description
1	1	V-01-24	1 <sup>st</sup> Outer scissor arm
2	1	V-01-23	1 <sup>st</sup> Inner scissor arm
3	6	01210.060.020	Bolt, DIN 933
4	12	38400.060.020	Washer
5	6	12300.060.001	Nut, DIN 985
6	12	12300.050.001	Nut, DIN 985
7	12	38130.050.001	Washer, DIN 125-A
8	3	V-01-72	Switch plate
9	3	SCHAK1	Switch
10	12	07160.050.050	Bolt, DIN 912

## 2nd Scissor arms



<b>Item</b>	<b>Qty</b>	<b>Part number</b>	<b>Description</b>
1	1	V-02-26-1	2 <sup>nd</sup> Outer scissor arm, Left
2	1	V-02-26-2	2 <sup>nd</sup> Outer scissor arm, Right
3	1	V-01-25	2 <sup>nd</sup> Inner scissor arm

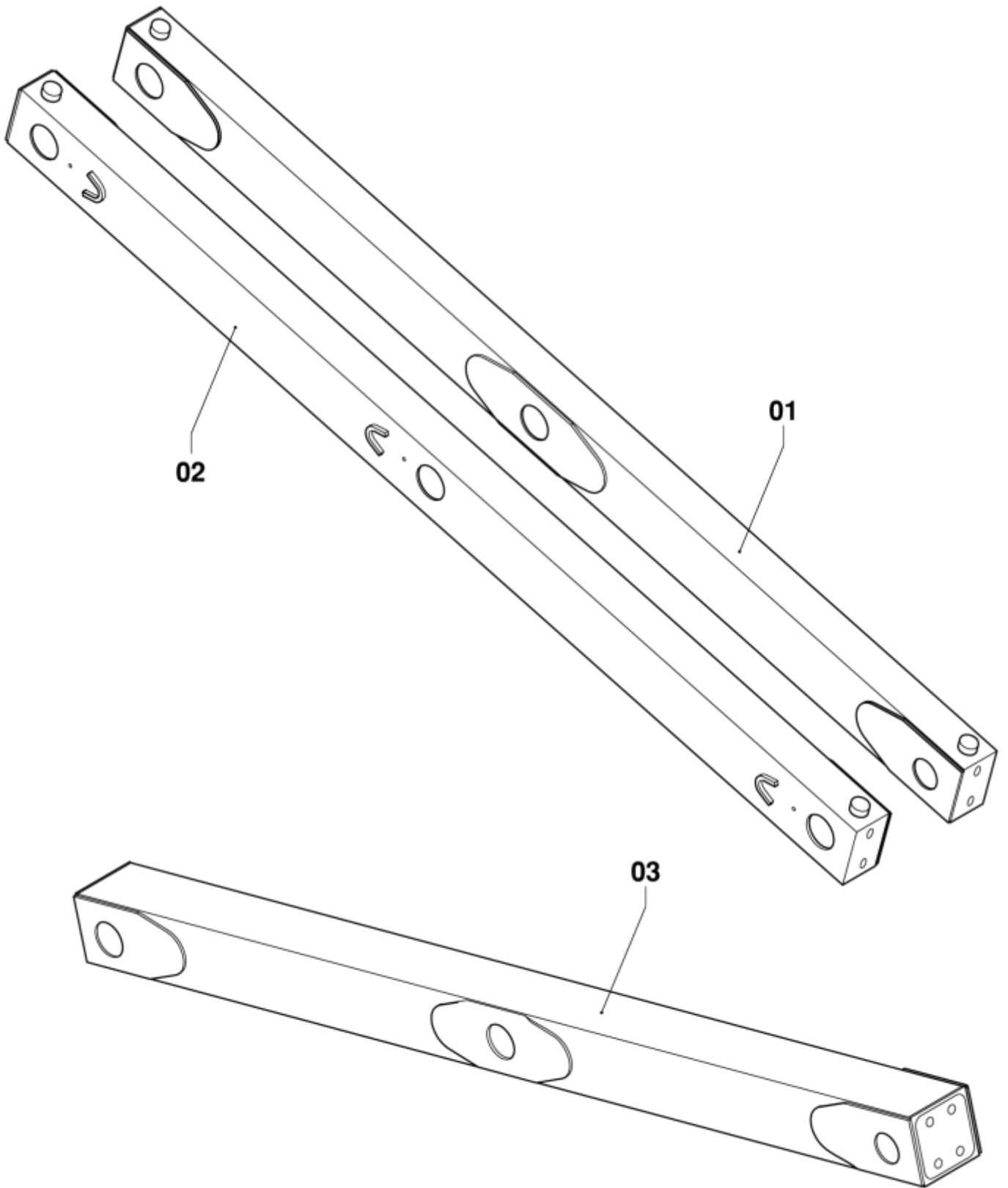
### 3rd Scissor arms





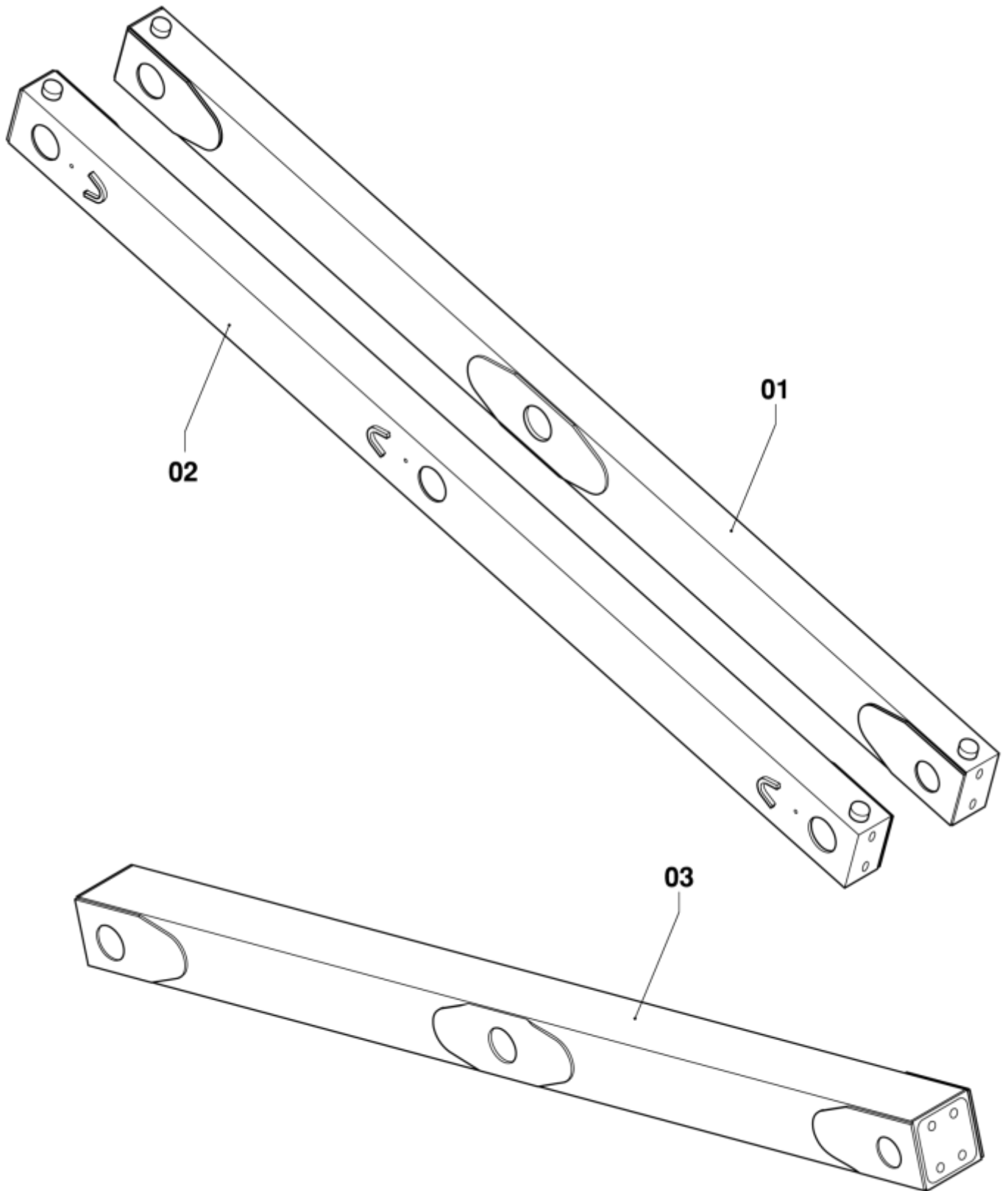
<b>Item</b>	<b>Qty</b>	<b>Part number</b>	<b>Description</b>
1	1	V-01-28-1	3 <sup>rd</sup> Outer scissor arm, Left
2	1	V-01-28-2	3 <sup>rd</sup> Outer scissor arm, Right
3	1	V-01-27	3 <sup>rd</sup> Inner scissor arm

### 4th Scissor arms



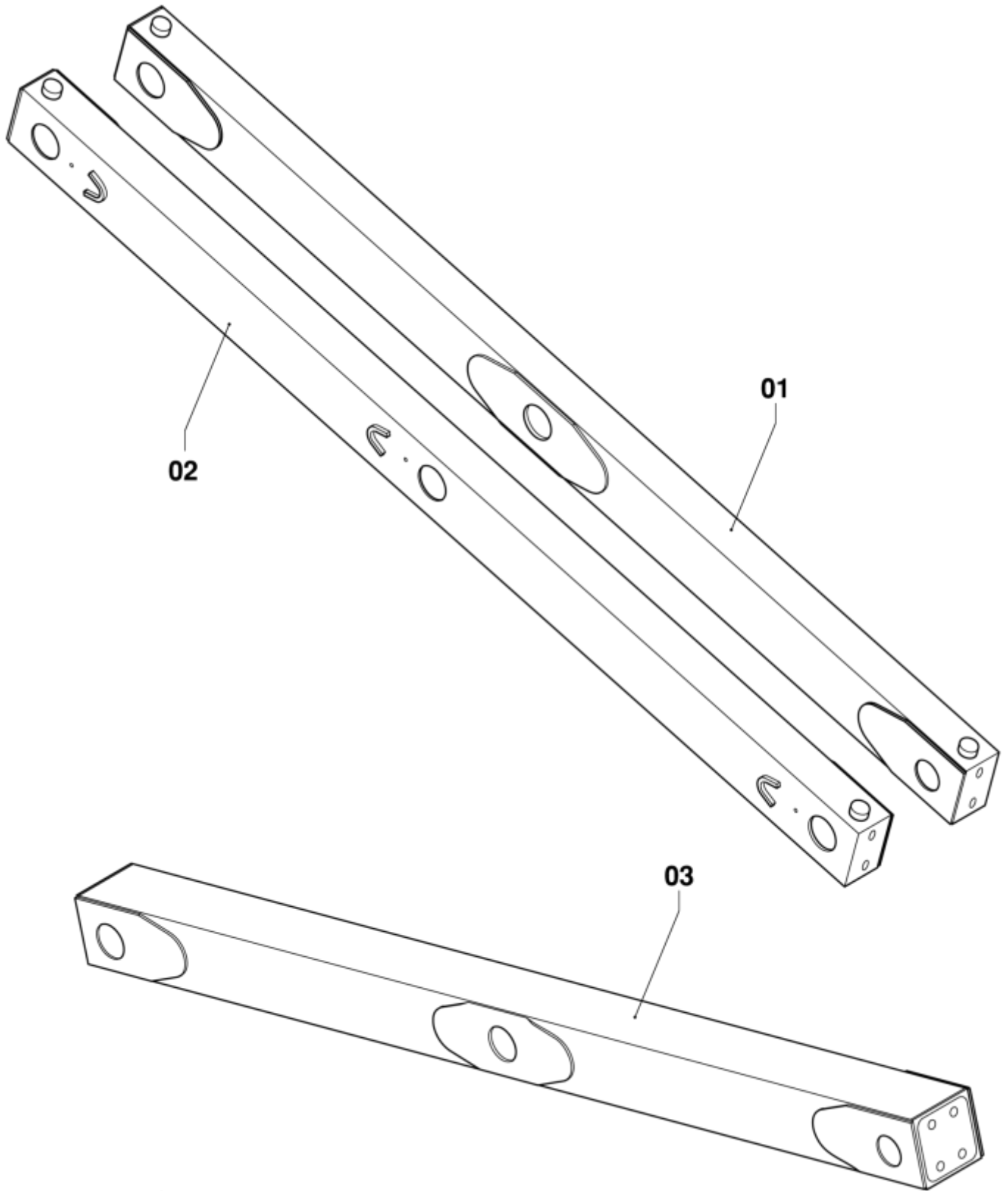
<b>Item</b>	<b>Qty</b>	<b>Part number</b>	<b>Description</b>
1	1	V-01-30-1	4 <sup>th</sup> Outer scissor arm, Left
2	1	V-01-30-2	4 <sup>th</sup> Outer scissor arm, Right
3	1	V-01-29	4 <sup>th</sup> Inner scissor arm

### 5th Scissor arms



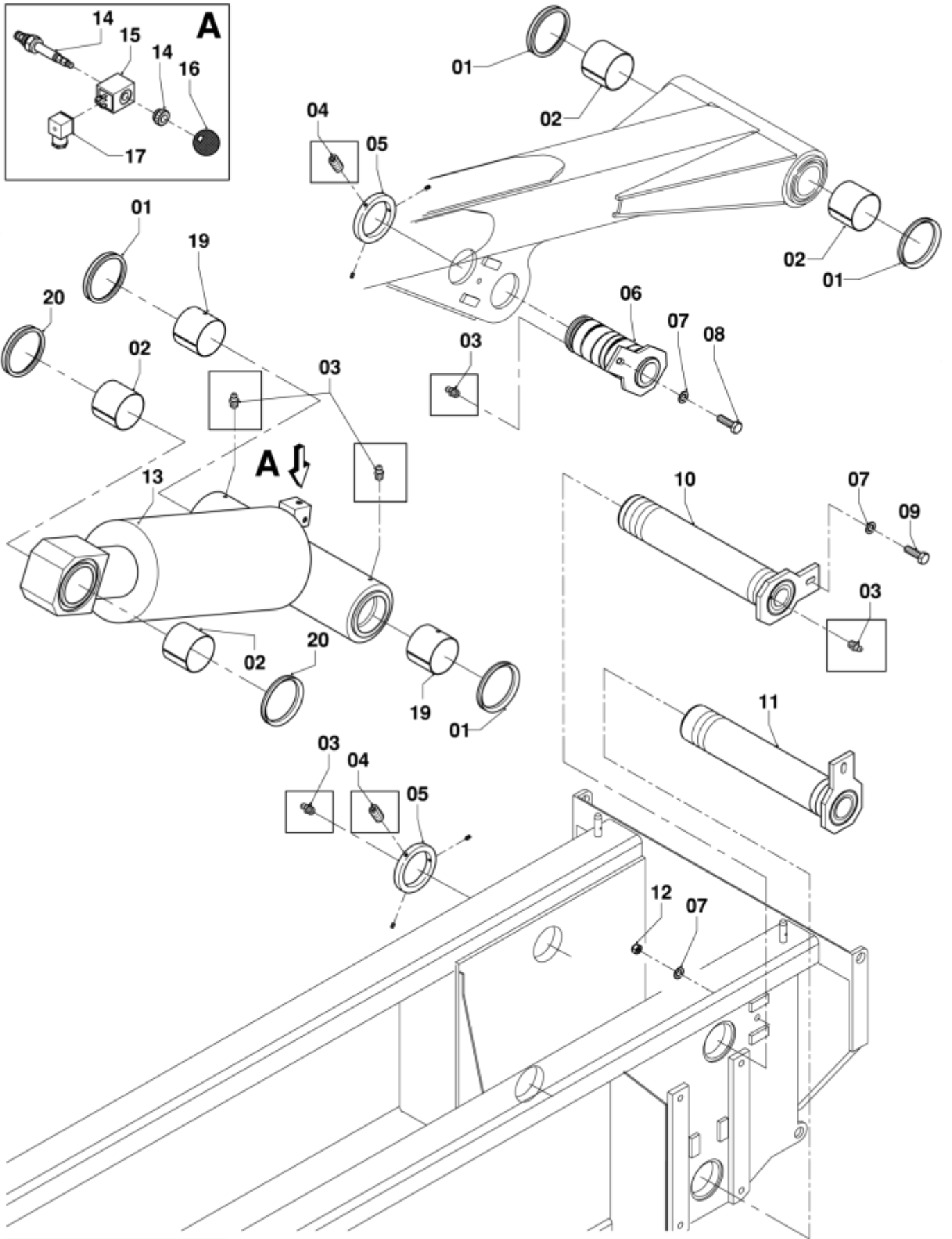
<b>Item</b>	<b>Qty</b>	<b>Part number</b>	<b>Description</b>
1	1	V165-01-32-1	5 <sup>th</sup> Outer scissor arm, Left
2	1	V165-01-32-2	5 <sup>th</sup> Outer scissor arm, Right
3	1	V165-01-31	5 <sup>th</sup> Inner scissor arm

### 6th Scissor arms



<b>Item</b>	<b>Qty</b>	<b>Part number</b>	<b>Description</b>
1	1	V-01-34-1	6 <sup>th</sup> Outer scissor arm, Left
2	1	V-01-34-2	6 <sup>th</sup> Outer scissor arm, Right
3	1	V-01-33	6 <sup>th</sup> Inner scissor arm

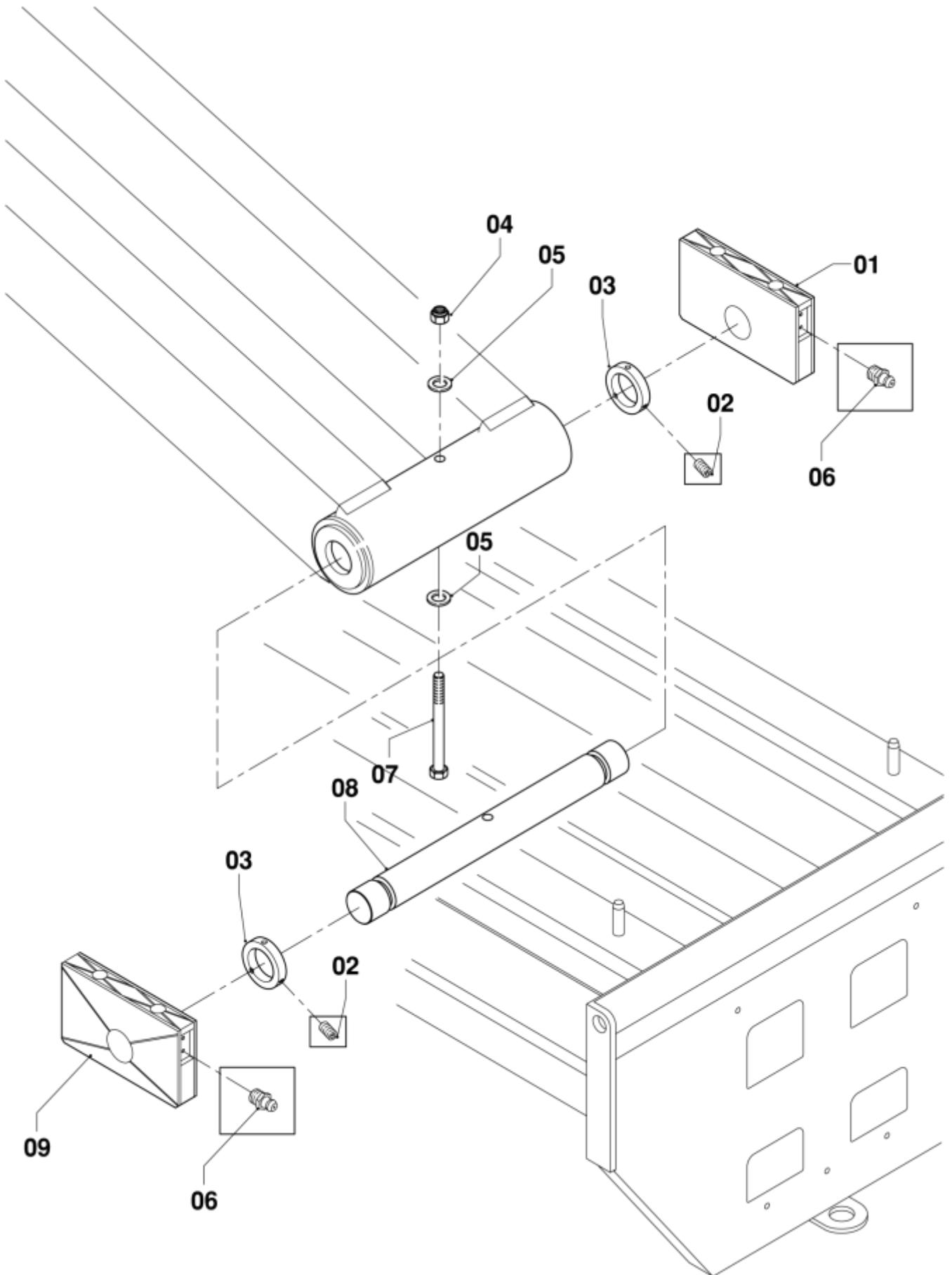
### Joint 1-21-22





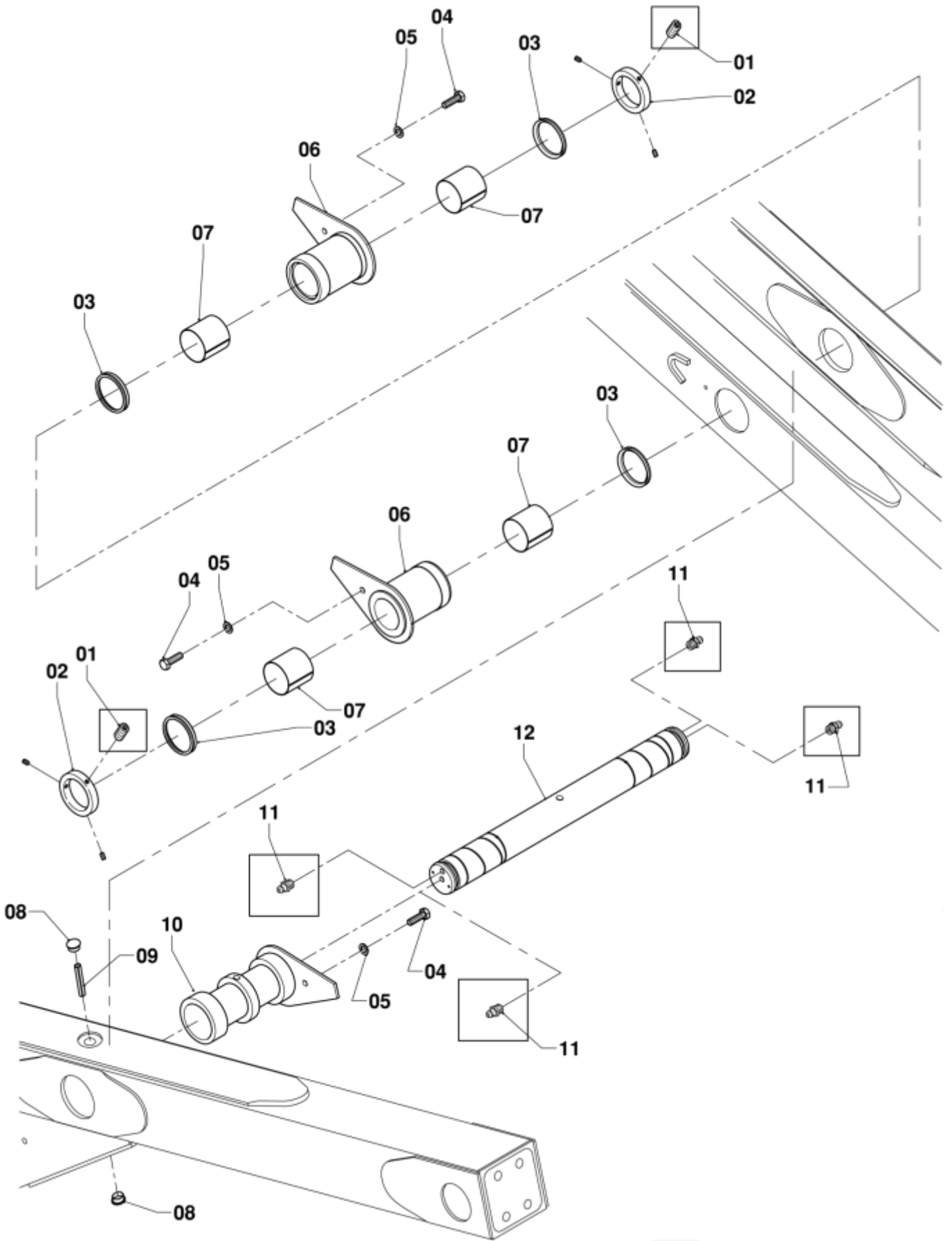
Item	Qty	Part number	Description
1	4	AFDICHT160A	Seal
2	4	FLAGER193	Bearing Ø 120 / L = 100
3	5	NIPPELM8x1,25	Grease nipple
4	6	07840.120.025	Screw, DIN 916
5	2	RING120	Retaining ring
6	1	V-01-40-1	Pin Ø 120 x 226
7	3	38130.160.001	Washer, DIN 125-A
8	1	01210.160.040	Bolt, DIN 933
9	1	01200.160.060	Bolt, DIN 931
10	1	V-01-40-2	Pin Ø 120 x 652
11	1	V-01-40-3	Pin Ø 120 x 642
12	1	12300.160.001	Nut, DIN 985
13	1	CIL475	Lift cylinder
14	1	VENT450A	Valve (emergency lowering)
15	1	SPOEL 24A	Coil
16	1	KNOP002	Emergency lowering button (red)
17	1	STEKKERKAP	Plug cap
18	2	AFDICHT180A	Seal
19	2	FLAGER193	Bearing Ø 120 / L = 100 (+ hole)
20	2	AFDICHT160S	Seal

## Joint 2



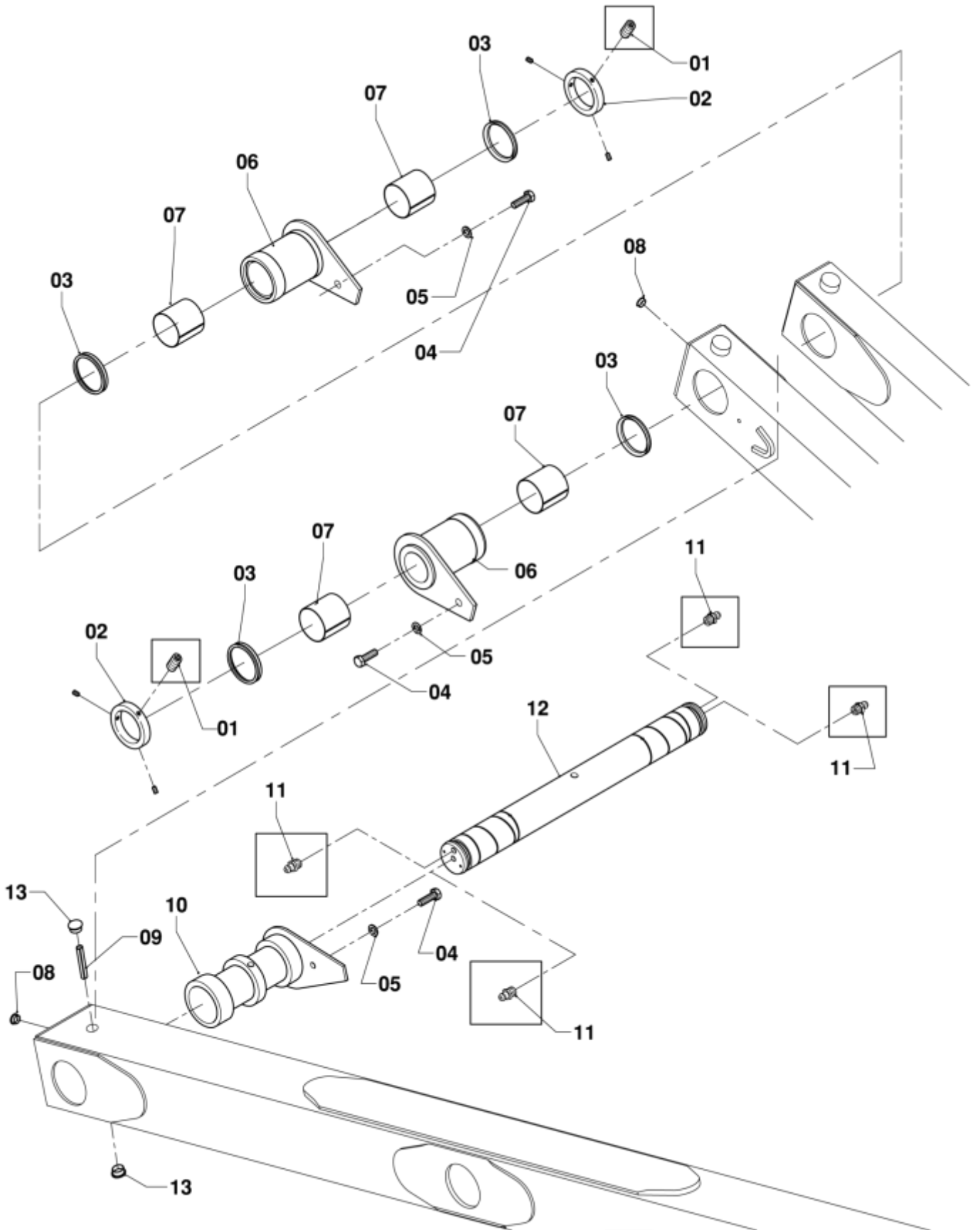
Item	Qty	Part number	Description
1	1	V-01-41-1	Sliding block L (GLYBLOK068)
2	6	07840.120.025	Screw, DIN 916
3	2	RING70	Retaining ring
4	1	12300.200.001	Nut, DIN 985
5	2	38130.200.001	Washer, DIN 125-A
6	4	NIPPELM12x1,25	Grease nipple
7	1	01200.200.220	Bolt, DIN 931
8	1	V-01-41-2	Pin Ø 70 x 708
9	1	V-01-41-3	Sliding block R (GLYBLOK069)

### Joint 15



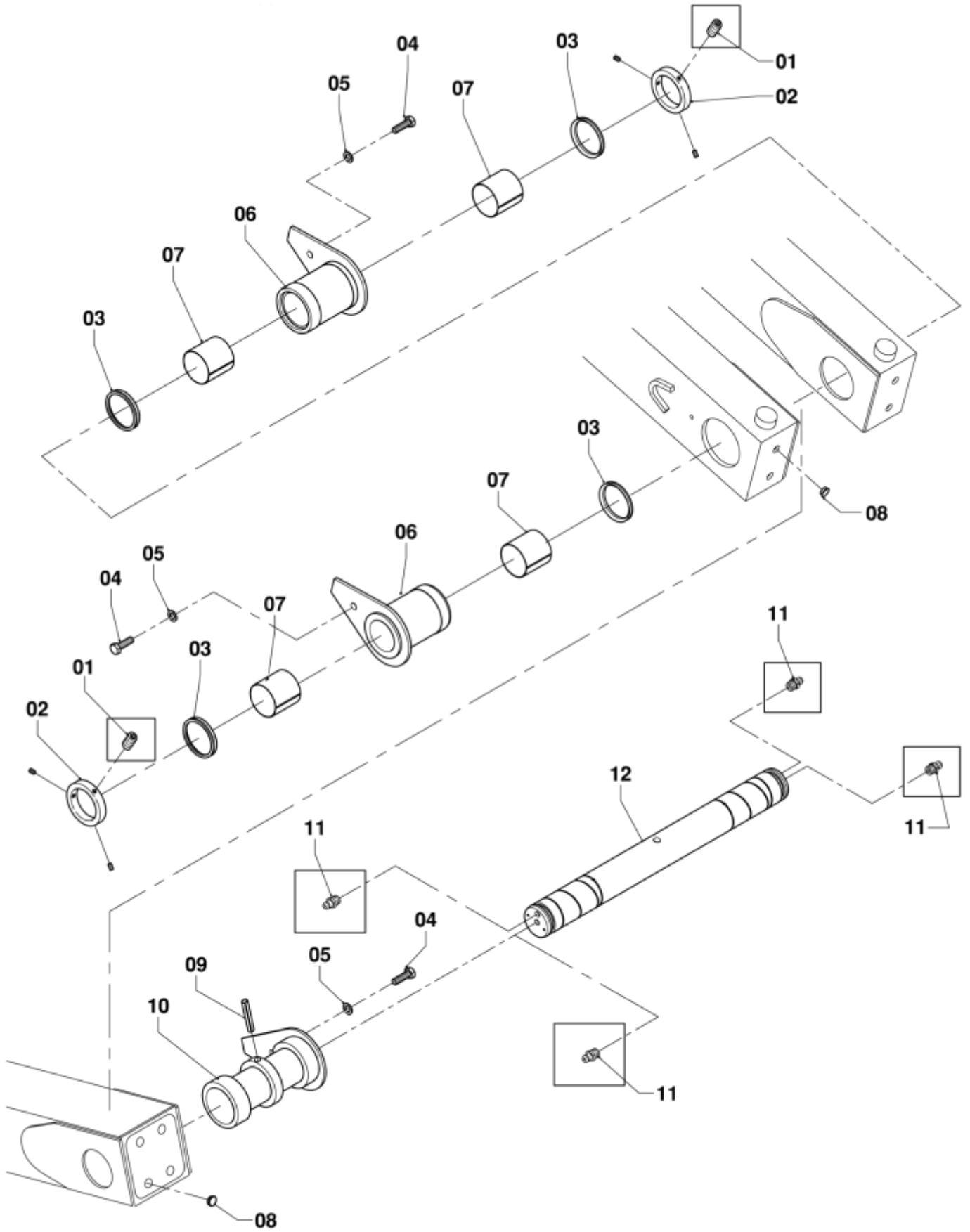
Item	Qty	Part number	Description
1	6	07840.100.020	Screw, DIN 916
2	2	RING90	Retaining ring
3	4	AFDICHT95A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V-01-38-1	Bush (outer / 15)
7	4	FLAGER190	Bearing Ø 90 / L = 60
8	1	STO028	Plug
9	1	STIFT18 x120	Spring type straight pin
10	1	V-01-38-2	Bush (inner / 15)
11	4	NIPPELM8x1,25	Grease nipple
12	1	V-01-38-3	Pin Ø 90 x 586

### Joint 4



Item	Qty	Part number	Description
1	6	07840.100.020	Screw, DIN 916
2	2	RING90	Retaining ring
3	4	AFDICHT95A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V-01-38-1	Bush (outer / 4)
7	4	FLAGER190	Bearing Ø 90 / L = 60
8	8	STO029	Plug
9	1	STIFT18 x120	Spring type straight pin
10	1	V-01-38-2	Bush (inner / 4)
11	4	NIPPELM8x1,25	Grease nipple
12	1	V-01-38-3	Pin Ø 90 x 586
13	2	STO028	Plug

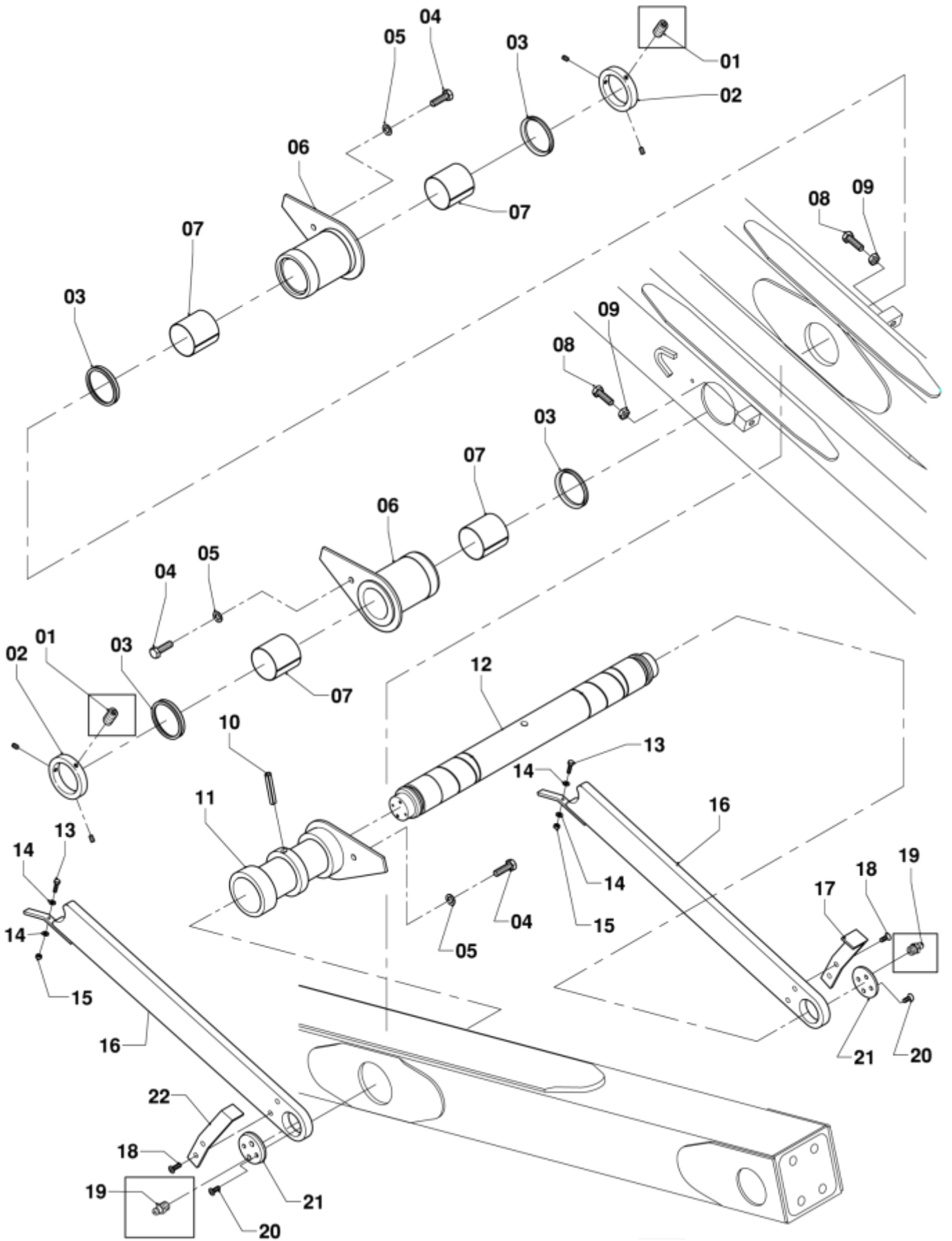
### Joint 3





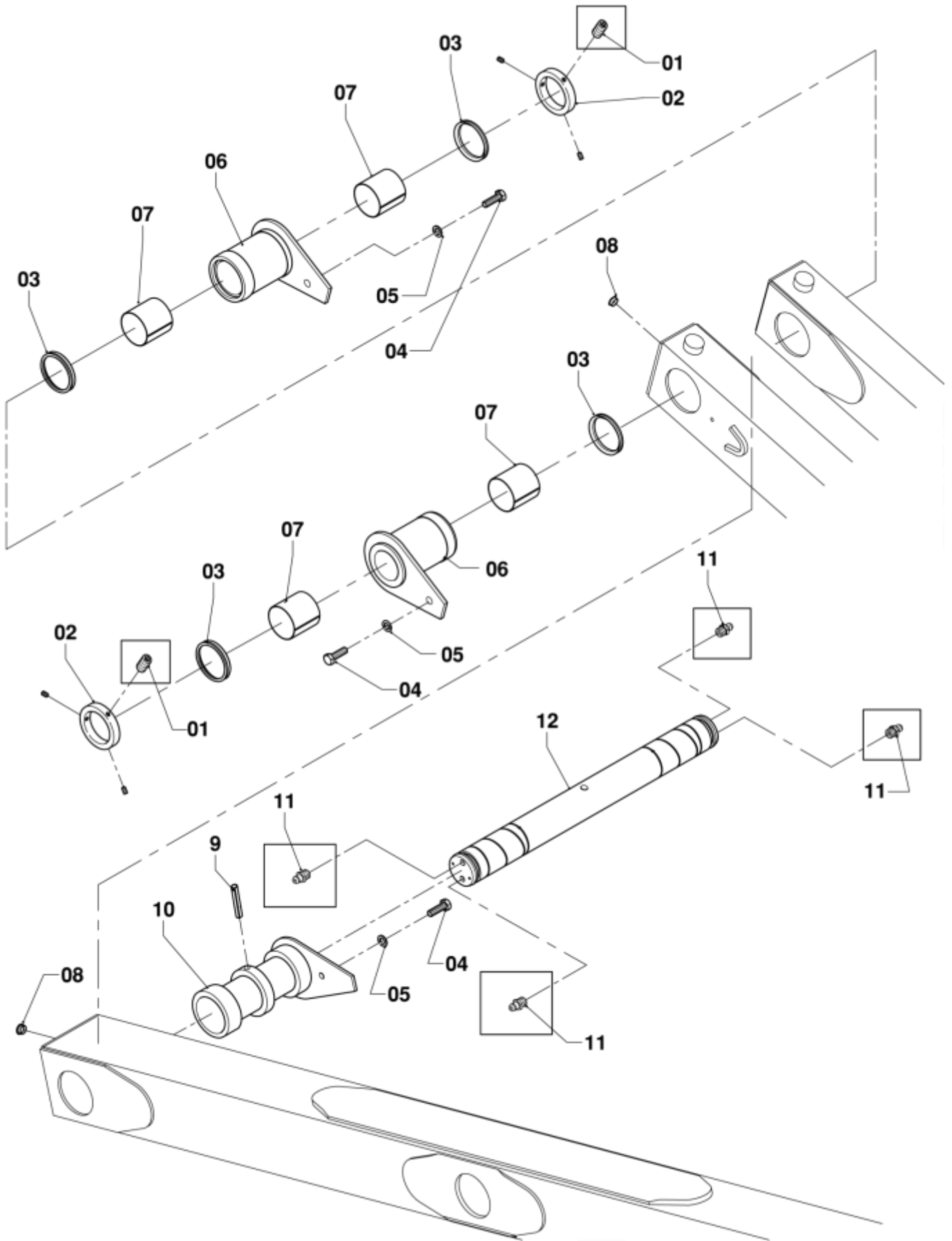
Item	Qty	Part number	Description
1	6	07840.100.020	Screw, DIN 916
2	2	RING90	Retaining ring
3	4	AFDICHT95A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V-01-38-1	Bush (outer / 3)
7	4	FLAGER190	Bearing Ø 90 / L = 60
8	1	STO029	Plug
9	1	STIFT18 x120	Spring type straight pin
10	1	V-01-38-2	Bush (inner / 3)
11	4	NIPPELM8x1,25	Grease nipple
12	1	V-01-38-3	Pin Ø 90 x 586

### Joint 16



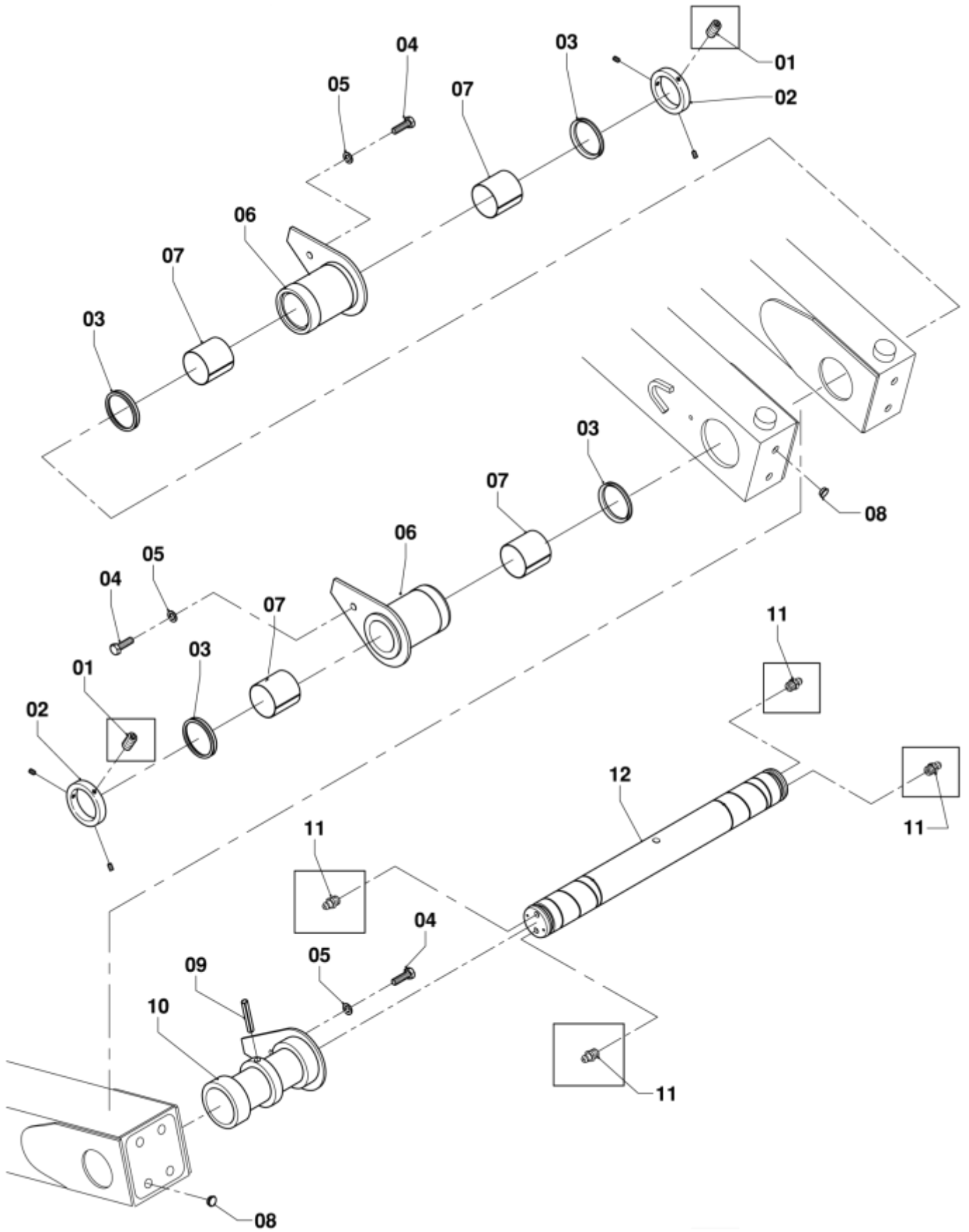
Item	Qty	Part number	Description
1	6	07840.120.025	Screw, DIN 916
2	2	RING100	Retaining ring
3	4	AFDICHT110A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V-01-39-1	Bush (outer / 16)
7	4	FLAGER210	Bearing Ø 100 / L = 60
8	2	01210.120.100	Bolt, DIN 933
9	2	01300.120.001	Bolt, DIN 934
10	1	STIFT18 x120	Spring type straight pin
11	1	V-01-39-2	Bush (inner / 16)
12	1	V-01-39-3	Pin Ø100 x 641
13	2	01210.080.030	Bolt, DIN 934
14	4	38130.080.001	Washer, DIN 125-A
15	2	12300.080.001	Nut, DIN 985
16	2	V-02-45-1	Safety support
17	1	V-02-45-2	Strip, Left
18	4	07470.120.020	Bolt, DIN 7991
19	4	NIPPELM8x1,25	Grease nipple
20	4	07470.100.015	Bolt, DIN 7991
21	2	V-01-39-4	Locking plate
22	1	V-02-45-3	Strip, Right

### Joint 5



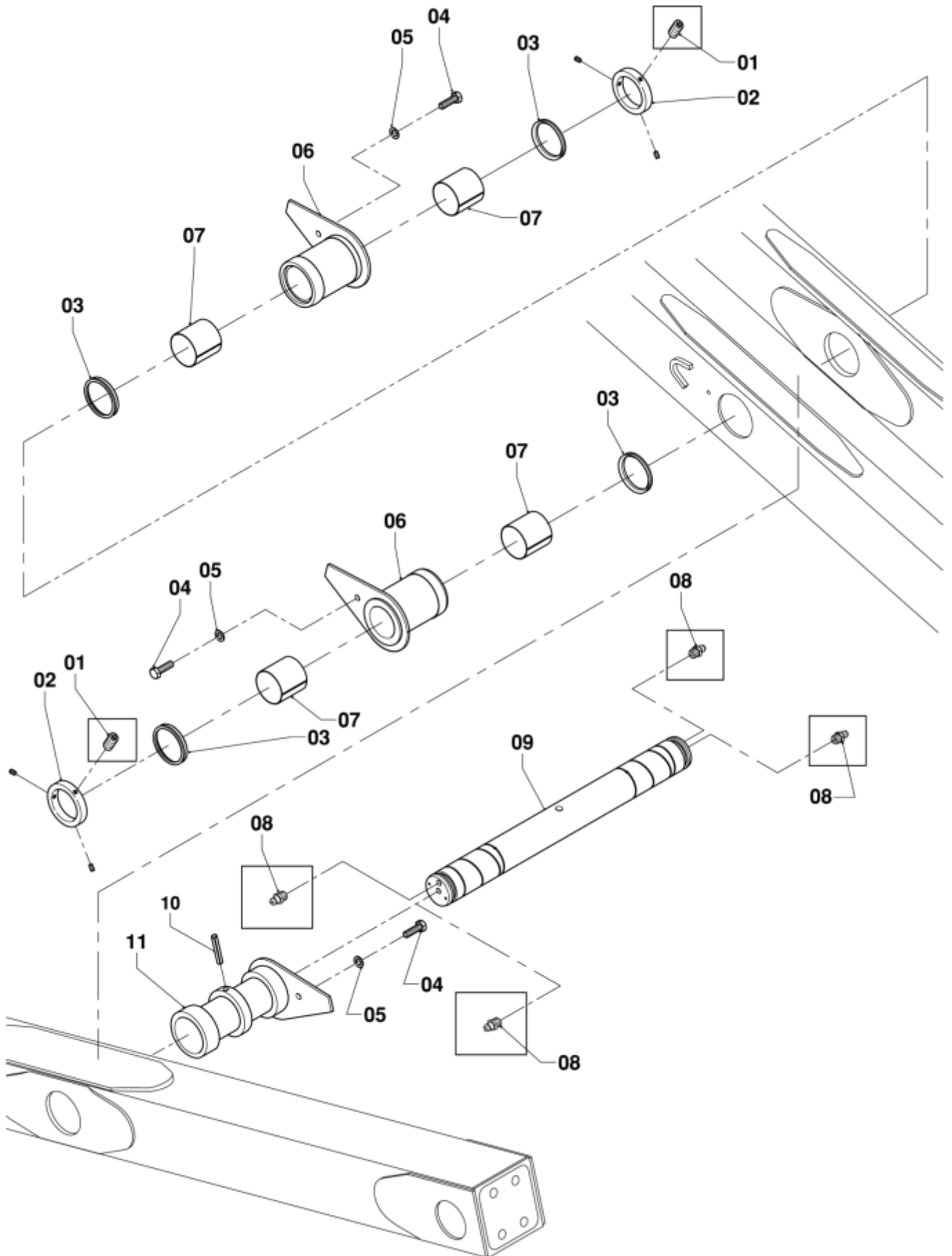
Item	Qty	Part number	Description
1	6	07840.120.020	Screw, DIN 916
2	2	RING75	Retaining ring
3	4	AFDICHT80A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V-01-37-1	Bush (outer / 5)
7	4	FLAGER177	Bearing Ø 75 / L = 60
8	8	STO029	Plug
9	1	STIFT18 x100	Spring type straight pin
10	1	V-01-37-2	Bush (inner / 5)
11	4	NIPPELM8x1,25	Grease nipple
12	1	V-01-37-3	Pin Ø 75 x 586

### Joint 6



Item	Qty	Part number	Description
1	6	07840.120.020	Screw, DIN 916
2	2	RING75	Retaining ring
3	4	AFDICHT80A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V-01-37-1	Bush (outer / 6)
7	4	FLAGER177	Bearing Ø 75 / L = 60
8	8	STO029	Plug
9	1	STIFT18 x100	Spring type straight pin
10	1	V-01-37-2	Bush (inner / 6)
11	4	NIPPELM8x1,25	Grease nipple
12	1	V-01-37-3	Pin Ø 75 x 586

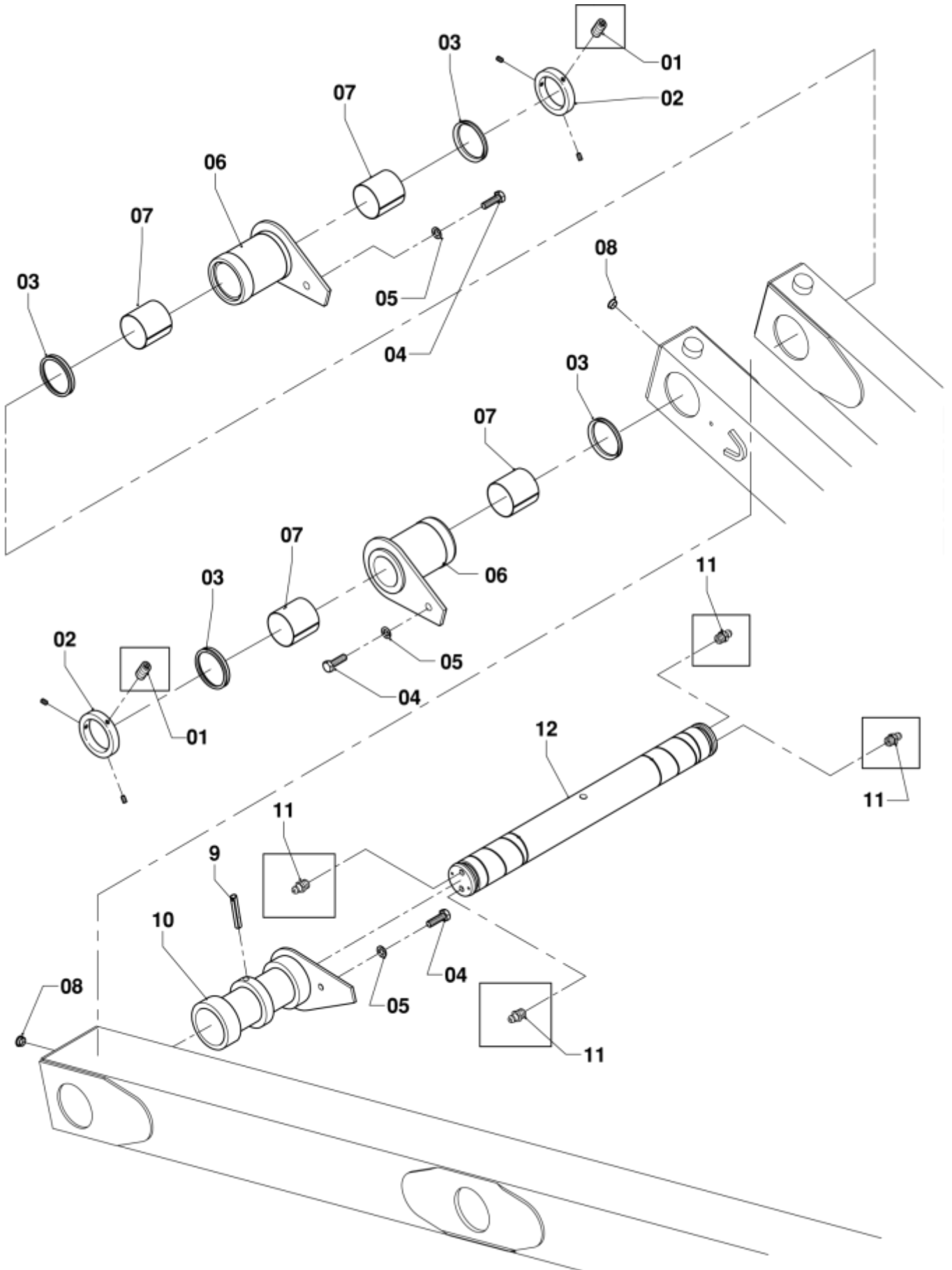
### Joint 17





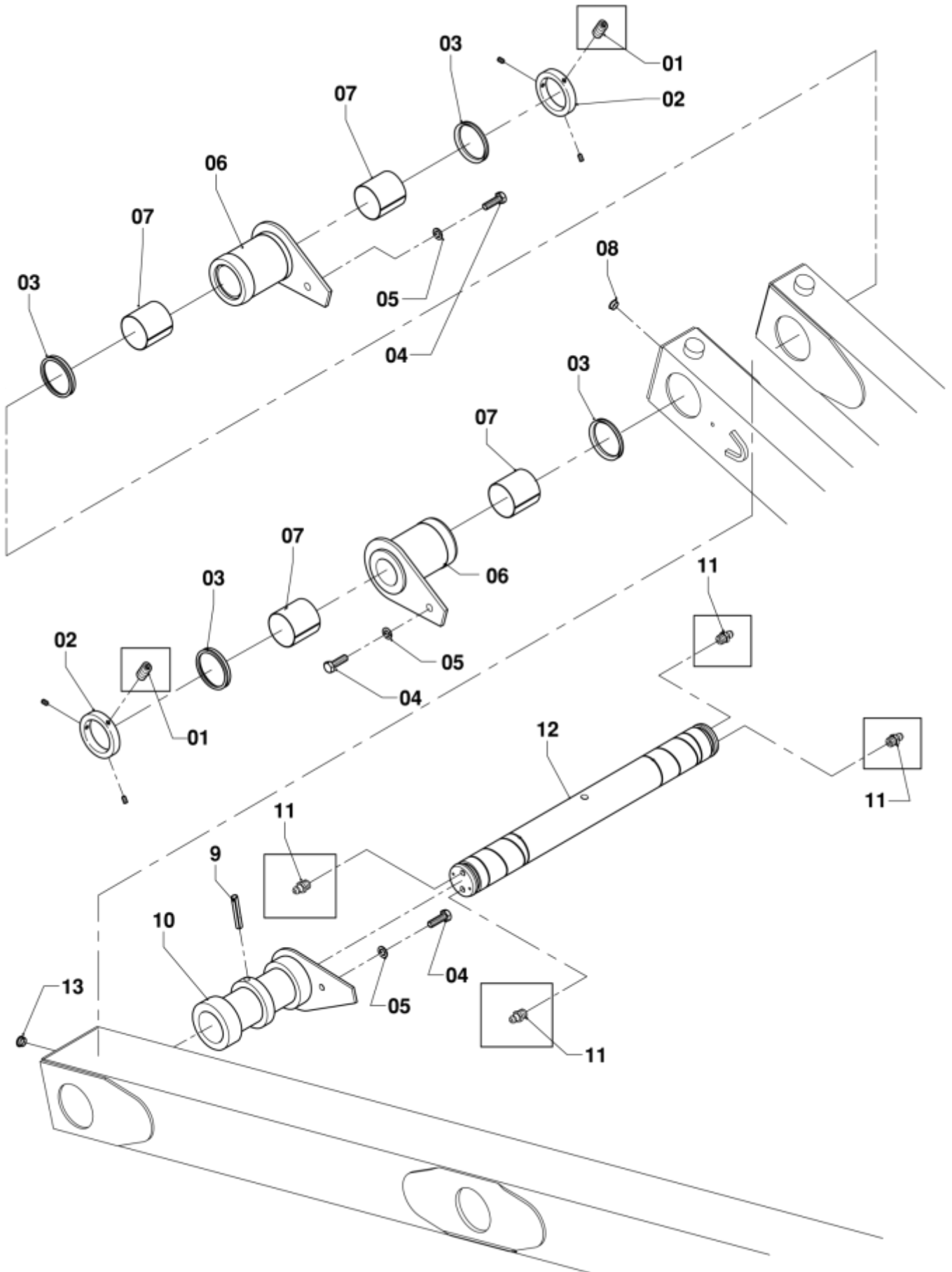
Item	Qty	Part number	Description
1	6	07840.120.020	Screw, DIN 916
2	2	RING90	Retaining ring
3	4	AFDICHT95A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V-01-38-1	Bush (outer / 17)
7	4	FLAGER190	Bearing Ø 90 / L = 60
8	4	NIPPELM8x1,25	Grease nipple
9	1	V-01-38-2	Pin Ø 90 x 586
10	1	STIFT18 x120	Spring type straight pin
11	1	V-01-38-3	Bush (inner / 17)

### Joint 8



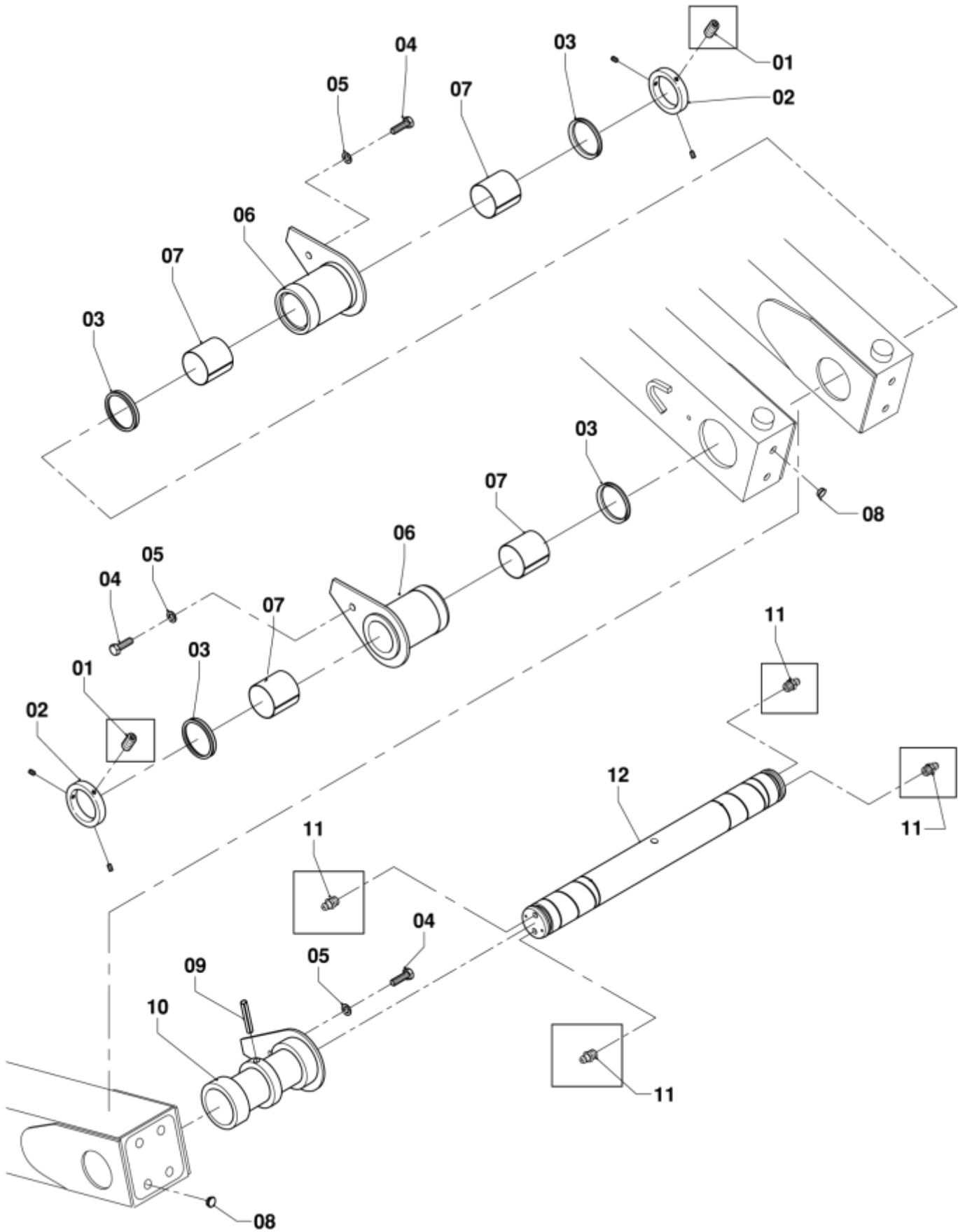
Item	Qty	Part number	Description
1	6	07840.120.020	Screw, DIN 916
2	2	RING75	Retaining ring
3	4	AFDICHT80A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V-01-37-1	Bush (outer / 8)
7	4	FLAGER177	Bearing Ø 75 / L = 60
8	8	STO029	Plug
9	1	STIFT18 x100	Spring type straight pin
10	1	V-01-37-2	Bush (inner / 8)
11	4	NIPPELM8x1,25	Grease nipple
12	1	V-01-37-3	Pin Ø 75 x 586

### Joint 8-12



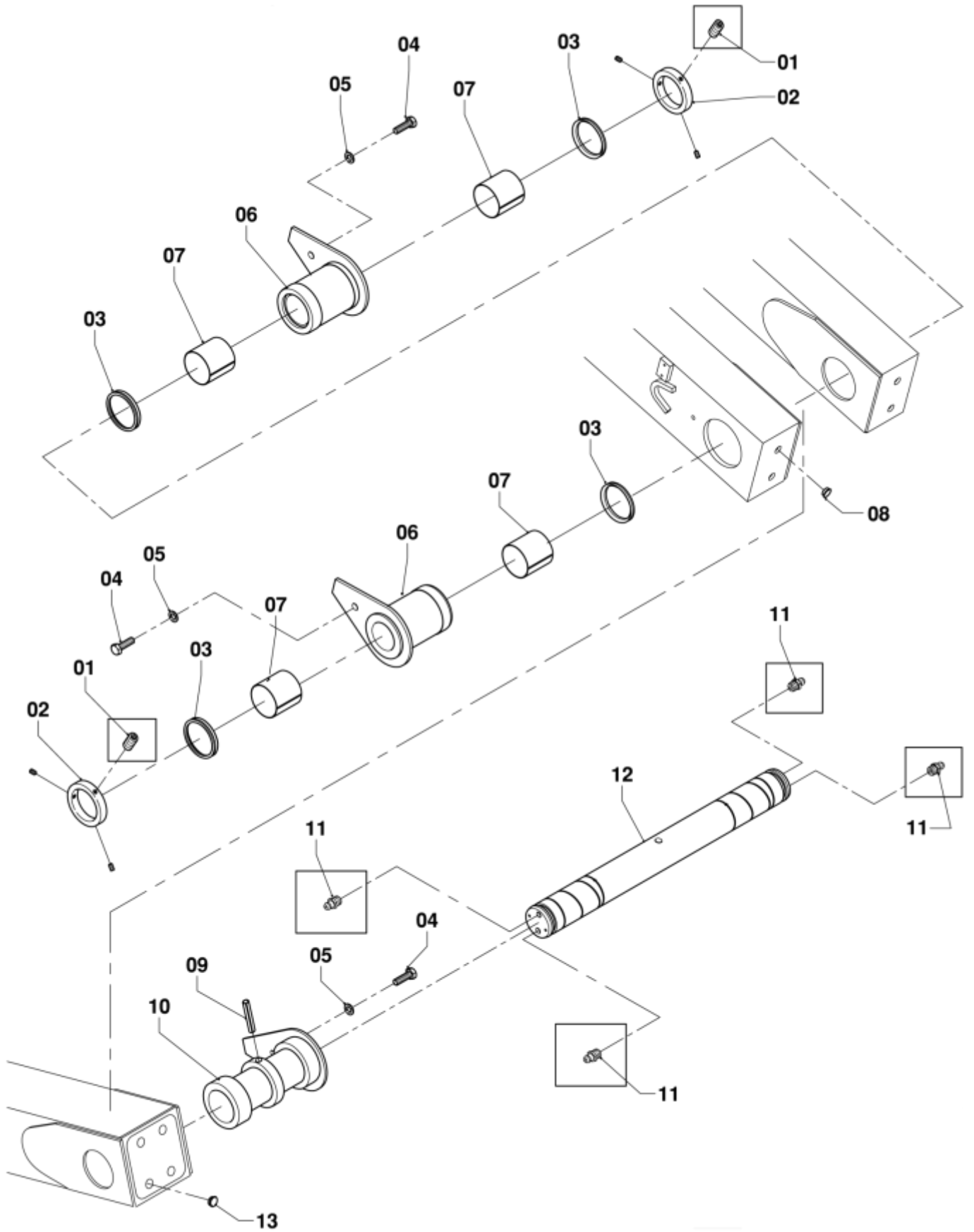
Item	Qty	Part number	Description
1	6	07840.100.020	Screw, DIN 916
2	2	RING60	Retaining ring
3	4	AFDICHT65A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V120-01-42-1	Bush (outer / 8-12)
7	4	FLAGER177	Bearing Ø 60 / L = 60
8	4	STO029	Plug
9	1	STIFT18 x100	Spring type straight pin
10	1	V120-01-42-2	Bush (inner / 8-12)
11	4	NIPPELM8x1,25	Grease nipple
12	1	V120-01-42-3	Pin Ø 60 x 582
13	4	STO022	Plug

### Joint 7



Item	Qty	Part number	Description
1	6	07840.120.020	Screw, DIN 916
2	2	RING75	Retaining ring
3	4	AFDICHT80A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V-01-37-4	Bush (outer / 7)
7	4	FLAGER177	Bearing Ø 75 / L = 60
8	8	STO029	Plug
9	1	STIFT18 x100	Spring type straight pin
10	1	V-01-37-5	Bush (inner / 7)
11	4	NIPPELM8x1,25	Grease nipple
12	1	V-01-37-3	Pin Ø 75 x 586

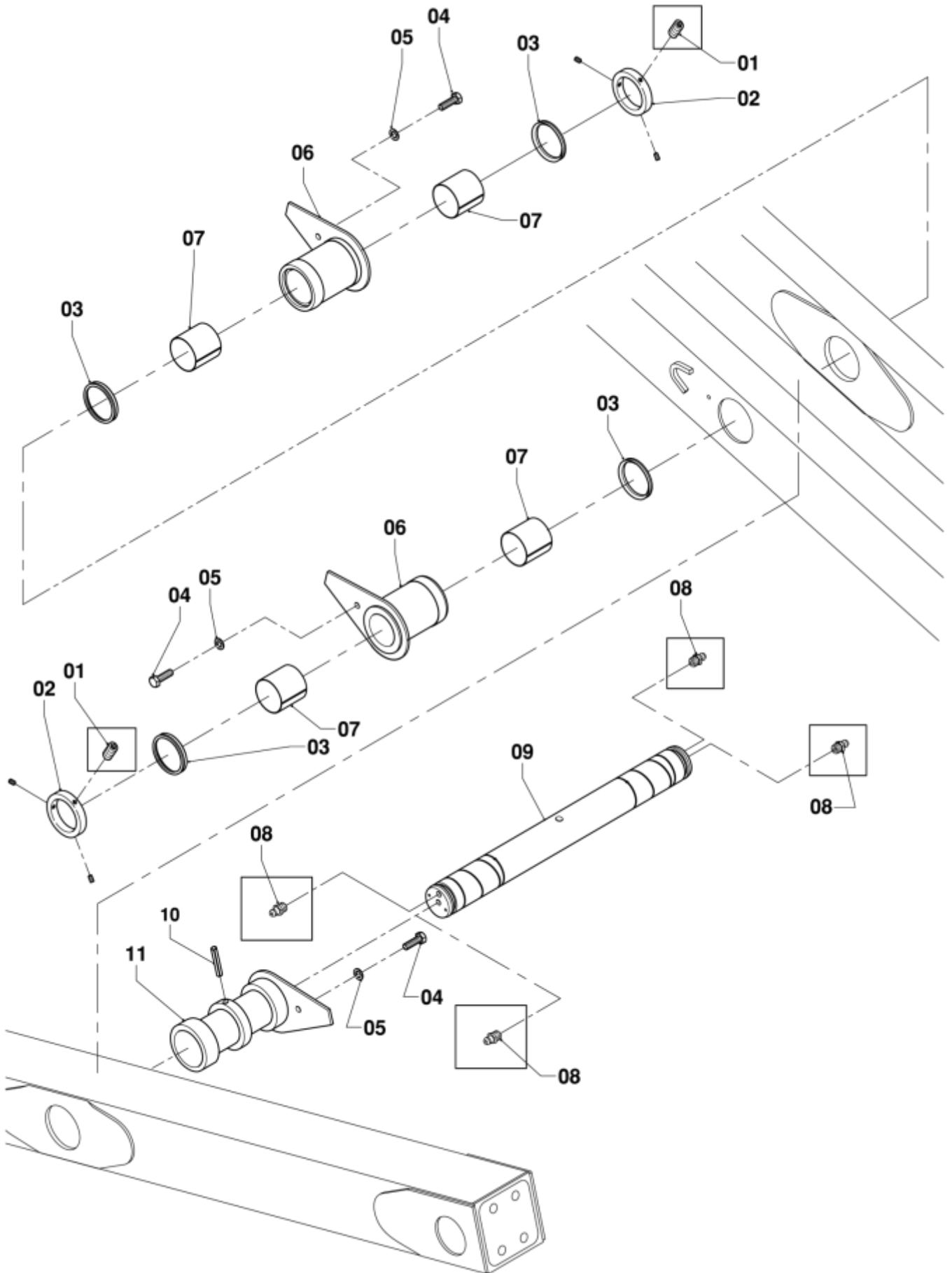
### Joint 7-11





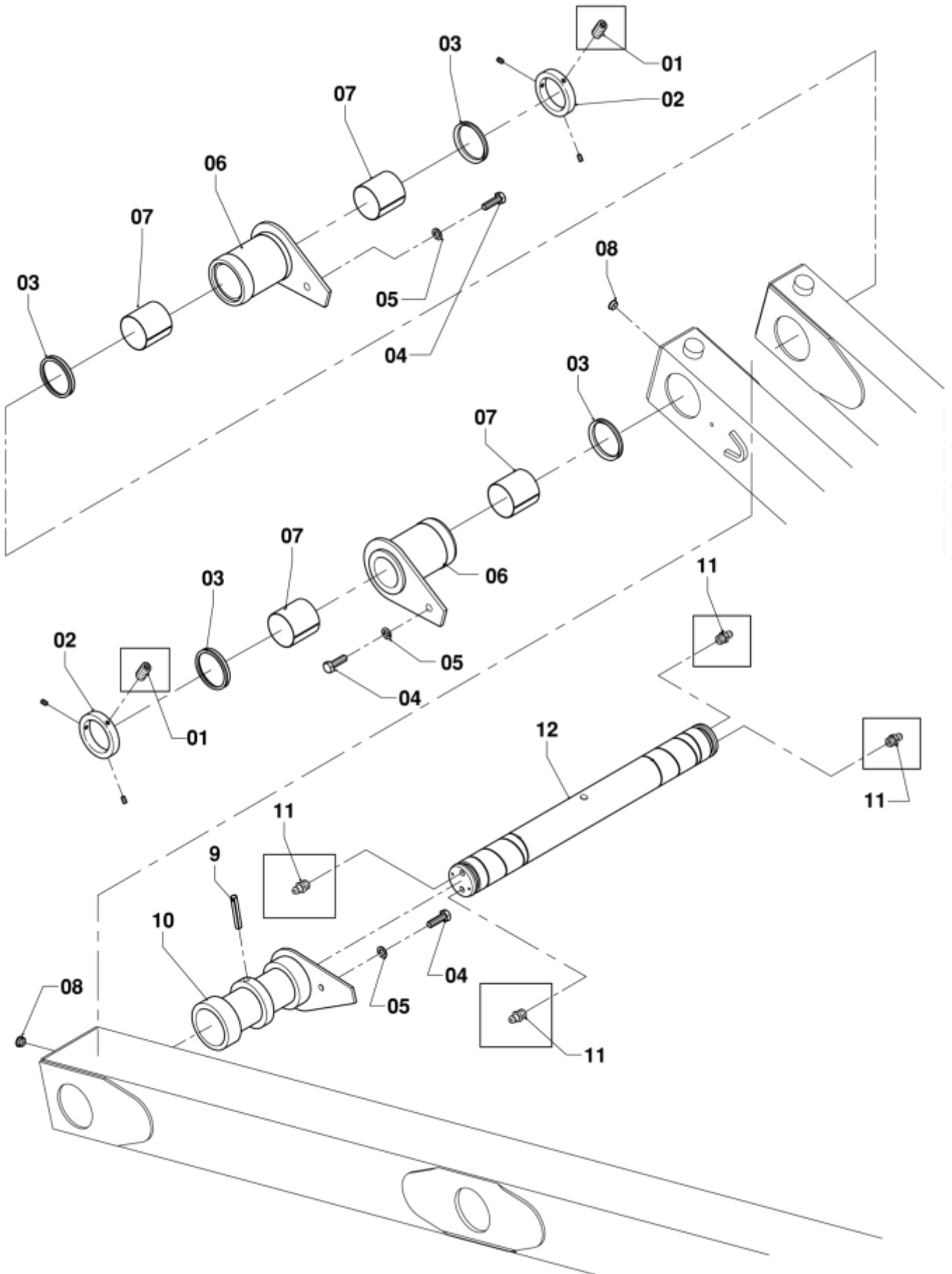
Item	Qty	Part number	Description
1	6	07840.100.020	Screw, DIN 916
2	2	RING60	Retaining ring
3	4	AFDICHT65A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V120-01-42-1	Bush (outer / 7-11)
7	4	FLAGER177	Bearing Ø 60 / L = 60
8	4	STO029	Plug
9	1	STIFT18 x100	Spring type straight pin
10	1	V120-01-42-2	Bush (inner / 7-11)
11	4	NIPPELM8x1,25	Grease nipple
12	1	V120-01-42-3	Pin Ø 60 x 582
13	4	STO022	Plug

### Joint 18



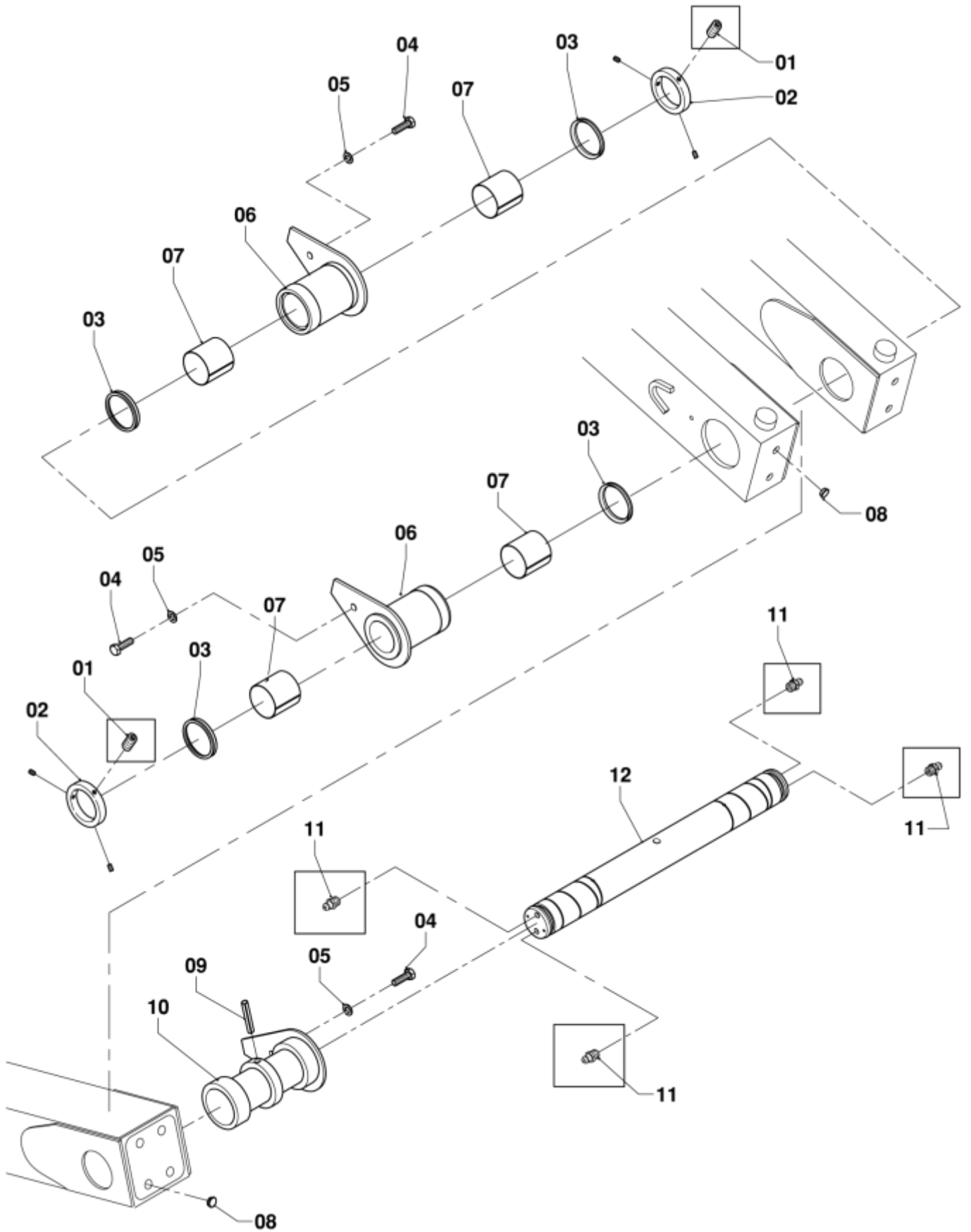
Item	Qty	Part number	Description
1	6	07840.120.020	Screw, DIN 916
2	2	RING75	Retaining ring
3	4	AFDICHT80A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V-01-37-1	Bush (outer / 18)
7	4	FLAGER177	Bearing Ø 75 / L = 60
8	4	NIPPELM8x1,25	Grease nipple
9	1	V-01-37-2	Pin Ø 75 x 586
10	1	STIFT18 x100	Spring type straight pin
11	1	V-01-37-3	Bush (inner / 18)

### Joint 9



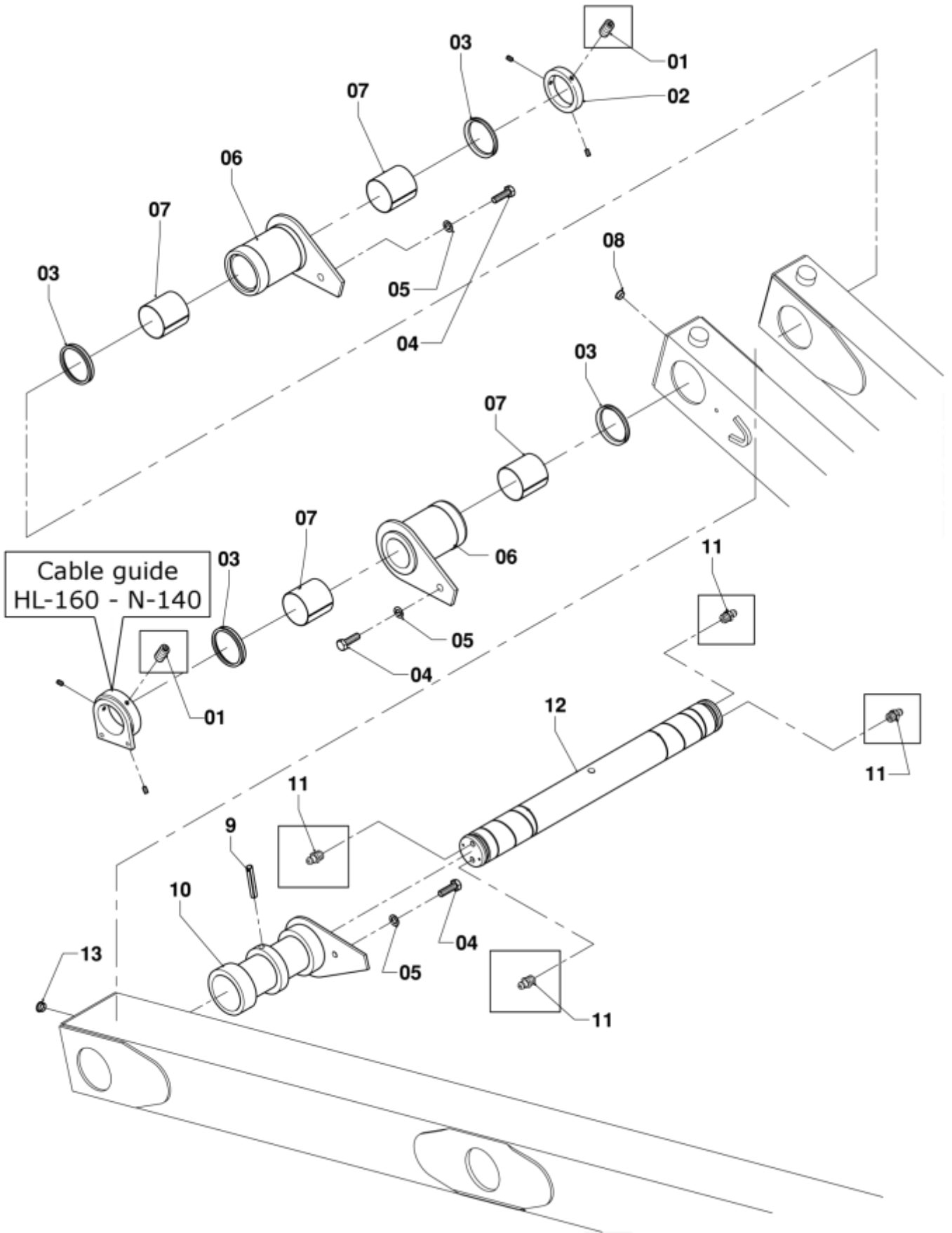
Item	Qty	Part number	Description
1	6	07840.100.020	Screw, DIN 916
2	2	RING60	Retaining ring
3	4	AFDICHT65A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V165-01-42-1	Bush (outer / 9)
7	4	FLAGER156	Bearing Ø 60 / L = 60
8	8	STO029	Plug
9	1	STIFT18 x80	Spring type straight pin
10	1	V165-01-42-2	Bush (inner / 9)
11	4	NIPPELM8x1,25	Grease nipple
12	1	V165-01-42-3	Pin Ø 60 x 582

### Joint 10



Item	Qty	Part number	Description
1	6	07840.100.020	Screw, DIN 916
2	2	RING60	Retaining ring
3	4	AFDICHT65A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V165-01-42-1	Bush (outer / 10)
7	4	FLAGER156	Bearing Ø 60 / L = 60
8	8	STO029	Plug
9	1	STIFT18 x80	Spring type straight pin
10	1	V165-01-42-2	Bush (inner / 10)
11	4	NIPPELM8x1,25	Grease nipple
12	1	V165-01-42-3	Pin Ø 60 x 582

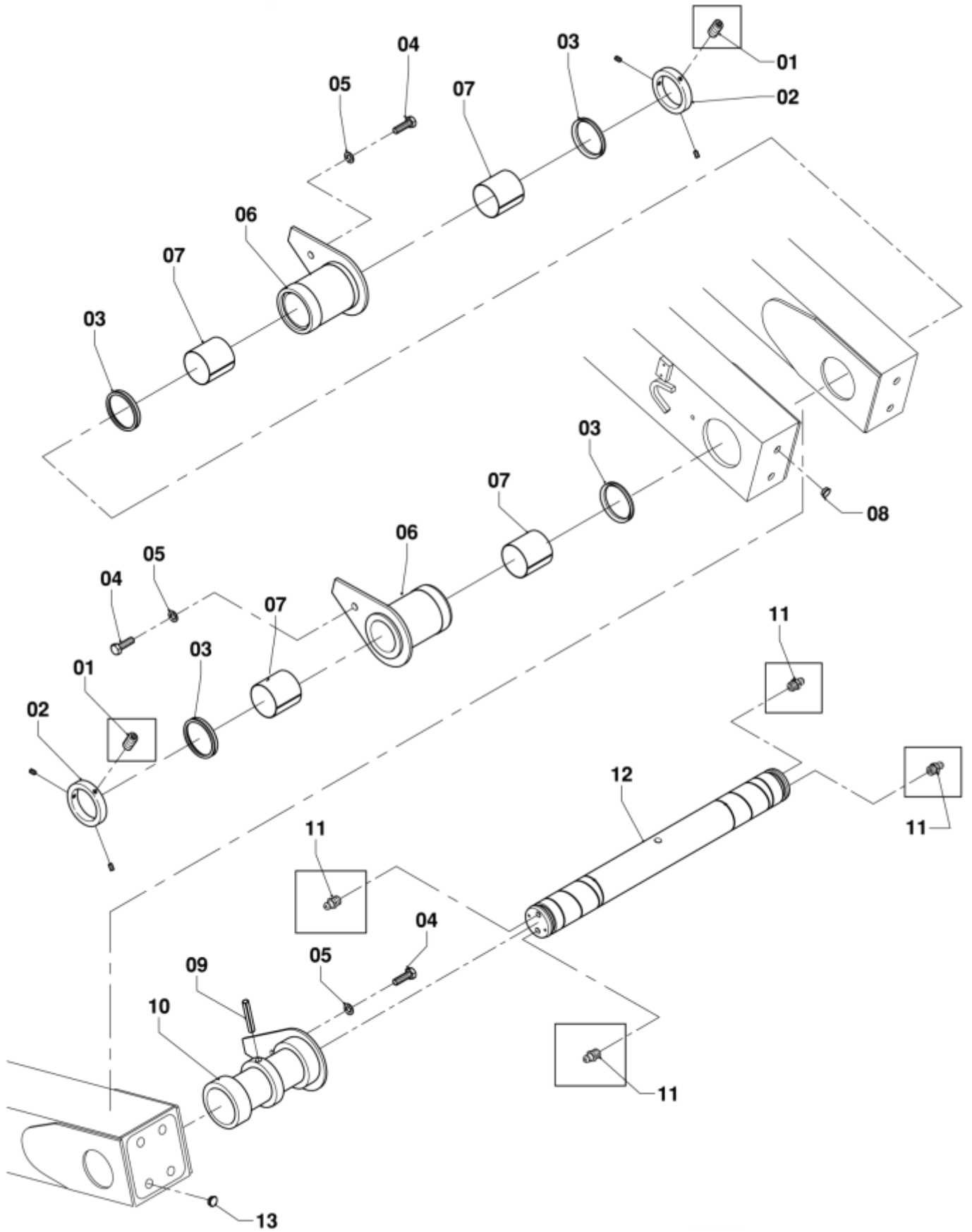
### Joint 9-12





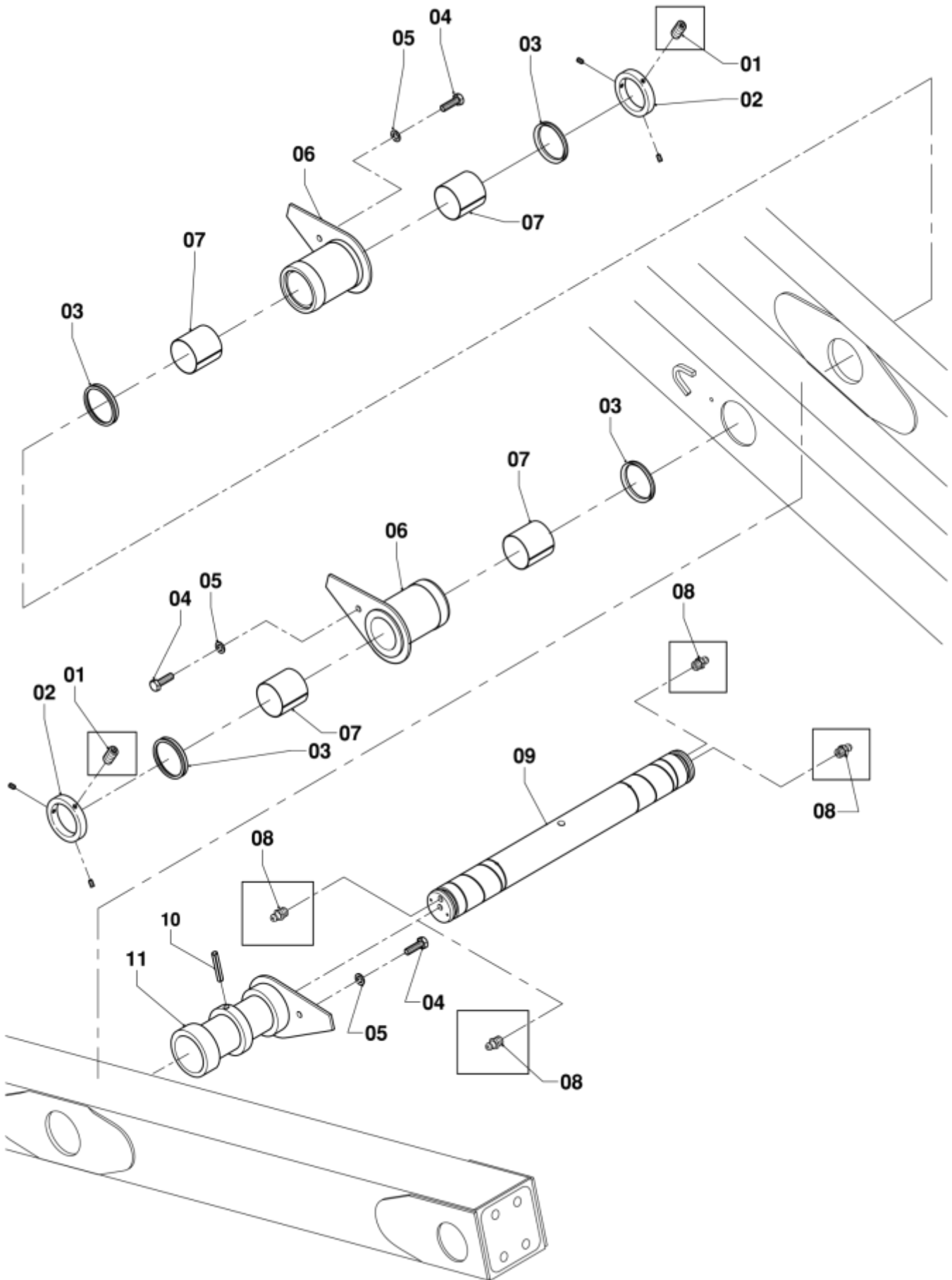
Item	Qty	Part number	Description
1	6	07840.100.020	Screw, DIN 916
2	1	RING60	Retaining ring
3	4	AFDICHT65A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V140-01-42-1	Bush (outer / 9-12)
7	4	FLAGER156	Bearing Ø 60 / L = 60
8	4	STO029	Plug
9	1	STIFT18 x80	Spring type straight pin
10	1	V140-01-42-2	Bush (inner / 9-12)
11	4	NIPPELM8x1,25	Grease nipple
12	1	V140-01-42-3	Pin Ø 60 x 582
13	4	STO022	Plug

### Joint 10-11



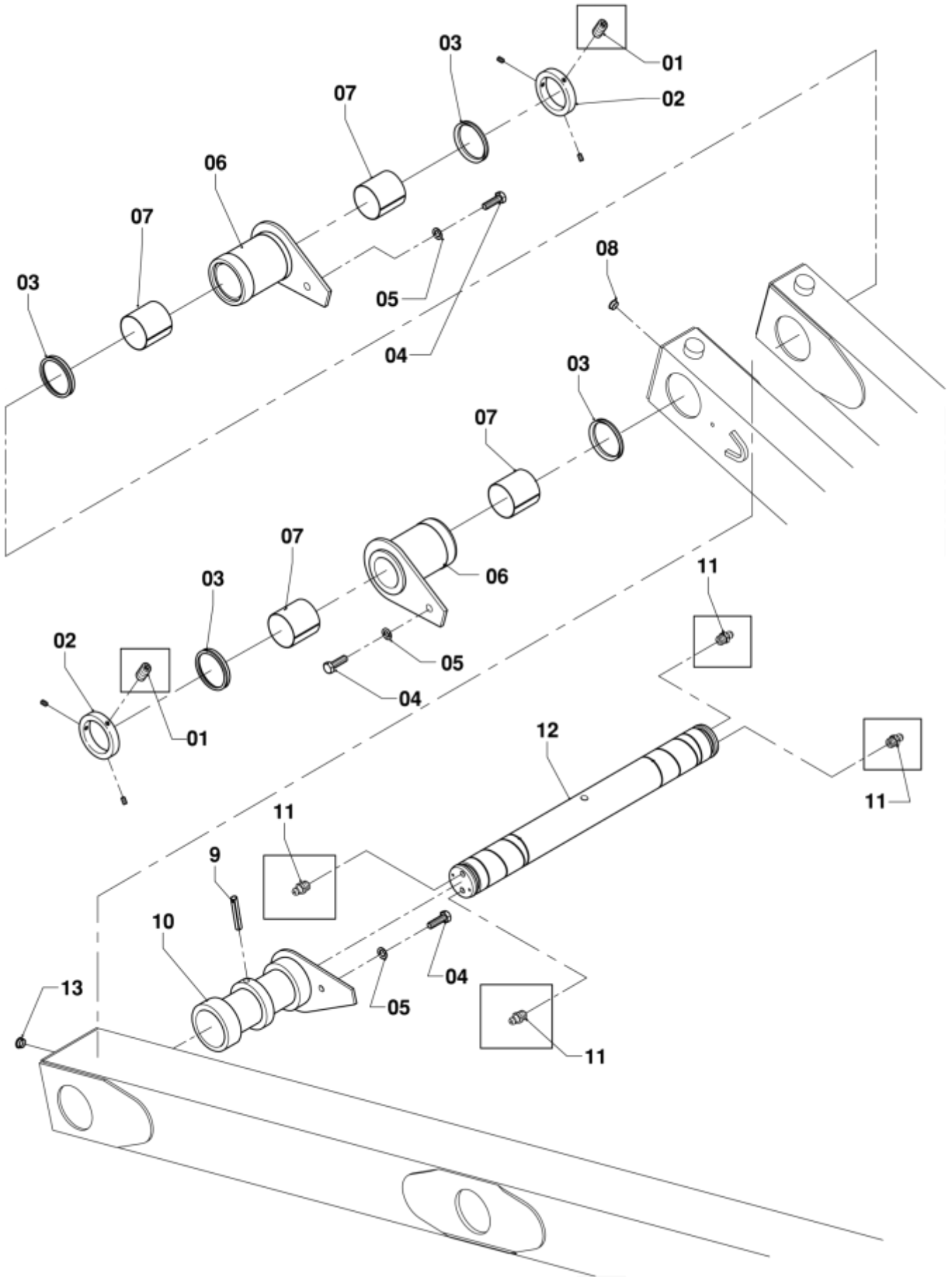
Item	Qty	Part number	Description
1	6	07840.100.020	Screw, DIN 916
2	1	RING60	Retaining ring
3	4	AFDICHT65A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V140-01-42-1	Bush (outer / 10-11)
7	4	FLAGER156	Bearing Ø 60 / L = 60
8	4	STO029	Plug
9	1	STIFT18 x80	Spring type straight pin
10	1	V140-01-42-2	Bush (inner / 10-11)
11	4	NIPPELM8x1,25	Grease nipple
12	1	V140-01-42-3	Pin Ø 60 x 582
13	4	STO022	Plug

### Joint 19



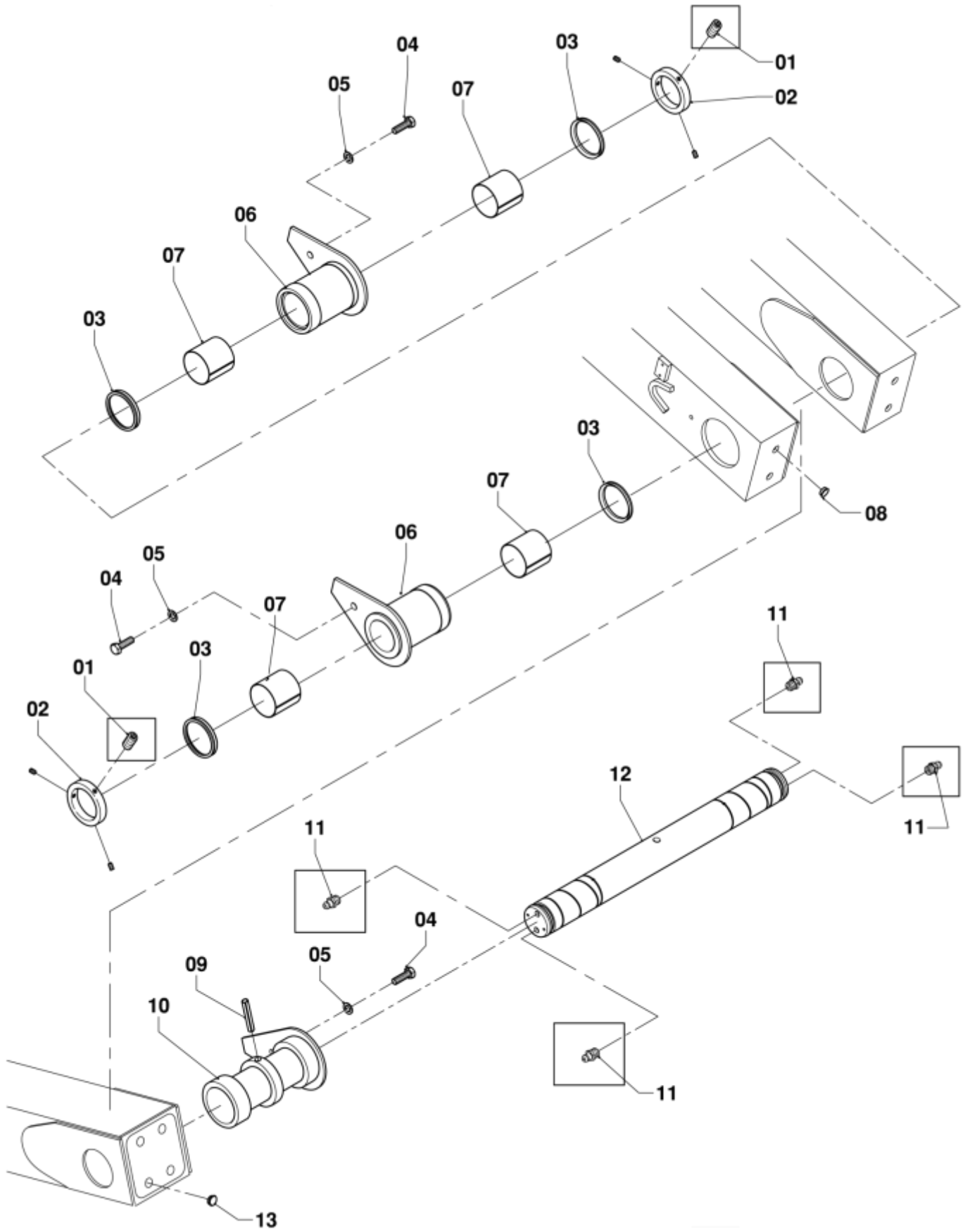
Item	Qty	Part number	Description
1	6	07840.100.020	Screw, DIN 916
2	2	RING60	Retaining ring
3	4	AFDICHT65A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V165-01-42-1	Bush (outer / 19)
7	4	FLAGER156	Bearing Ø 60 / L = 60
8	4	NIPPELM8x1,25	Grease nipple
9	1	V165-01-42-2	Pin Ø 60 x 582
10	1	STIFT18 x80	Spring type straight pin
11	1	V165-01-42-3	Bush (inner / 19)

### Joint 12



Item	Qty	Part number	Description
1	6	07840.100.020	Screw, DIN 916
2	1	RING60	Retaining ring
3	4	AFDICHT65A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V165-01-42-1	Bush (outer / 12)
7	4	FLAGER156	Bearing Ø 60 / L = 60
8	4	STO029	Plug
9	1	STIFT18 x80	Spring type straight pin
10	1	V165-01-42-2	Bush (inner / 12)
11	4	NIPPELM8x1,25	Grease nipple
12	1	V165-01-42-3	Pin Ø 60 x 582
13	4	STO022	Plug

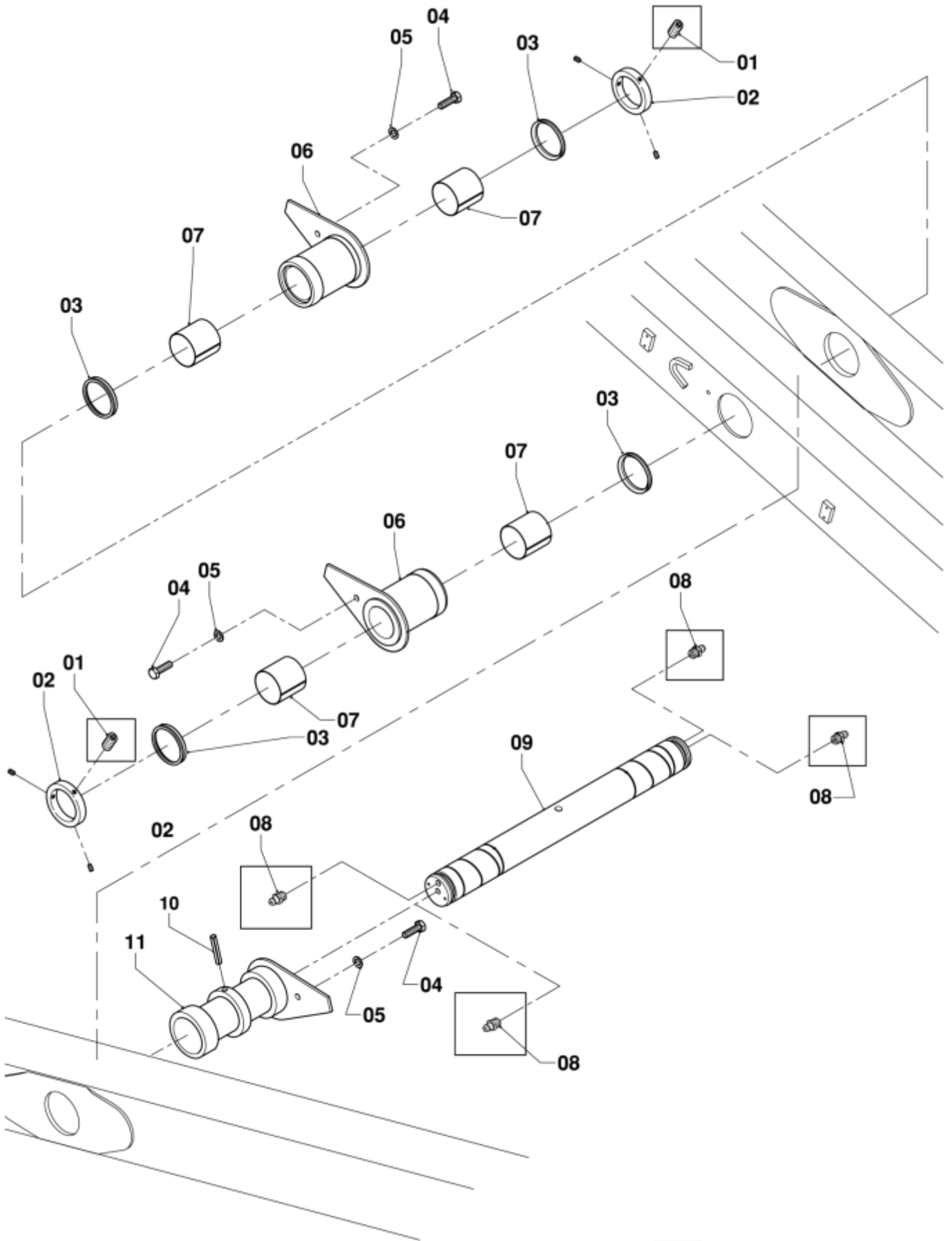
### Joint 11





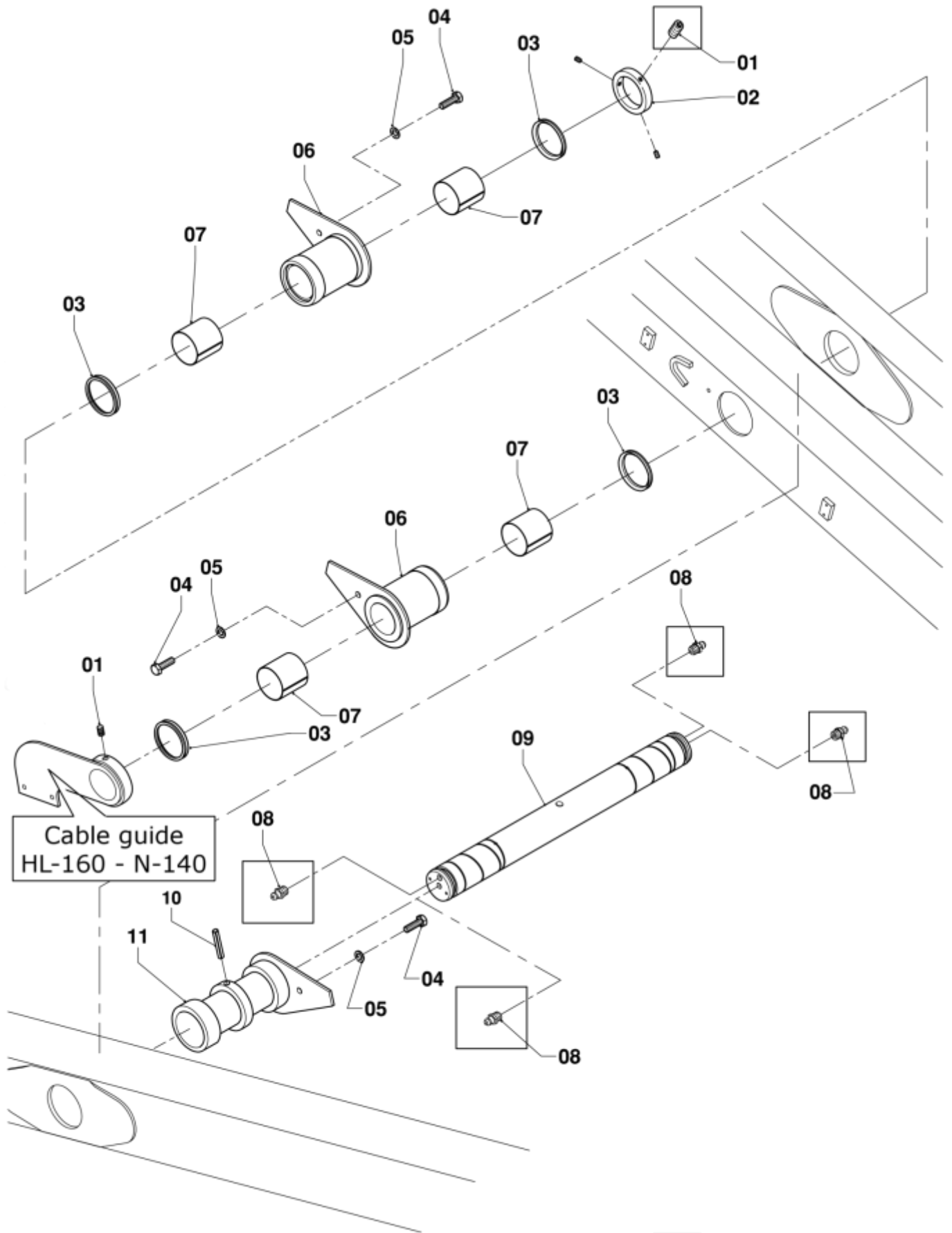
Item	Qty	Part number	Description
1	6	07840.100.020	Screw, DIN 916
2	2	RING60	Retaining ring
3	4	AFDICHT65A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V165-01-42-1	Bush (outer / 11)
7	4	FLAGER156	Bearing Ø 60 / L = 60
8	4	STO029	Plug
9	1	STIFT18 x80	Spring type straight pin
10	1	V165-01-42-2	Bush (inner / 11)
11	4	NIPPELM8x1,25	Grease nipple
12	1	V165-01-42-3	Pin Ø 60 x 582
13	4	STO022	Plug

### Joint 20-A



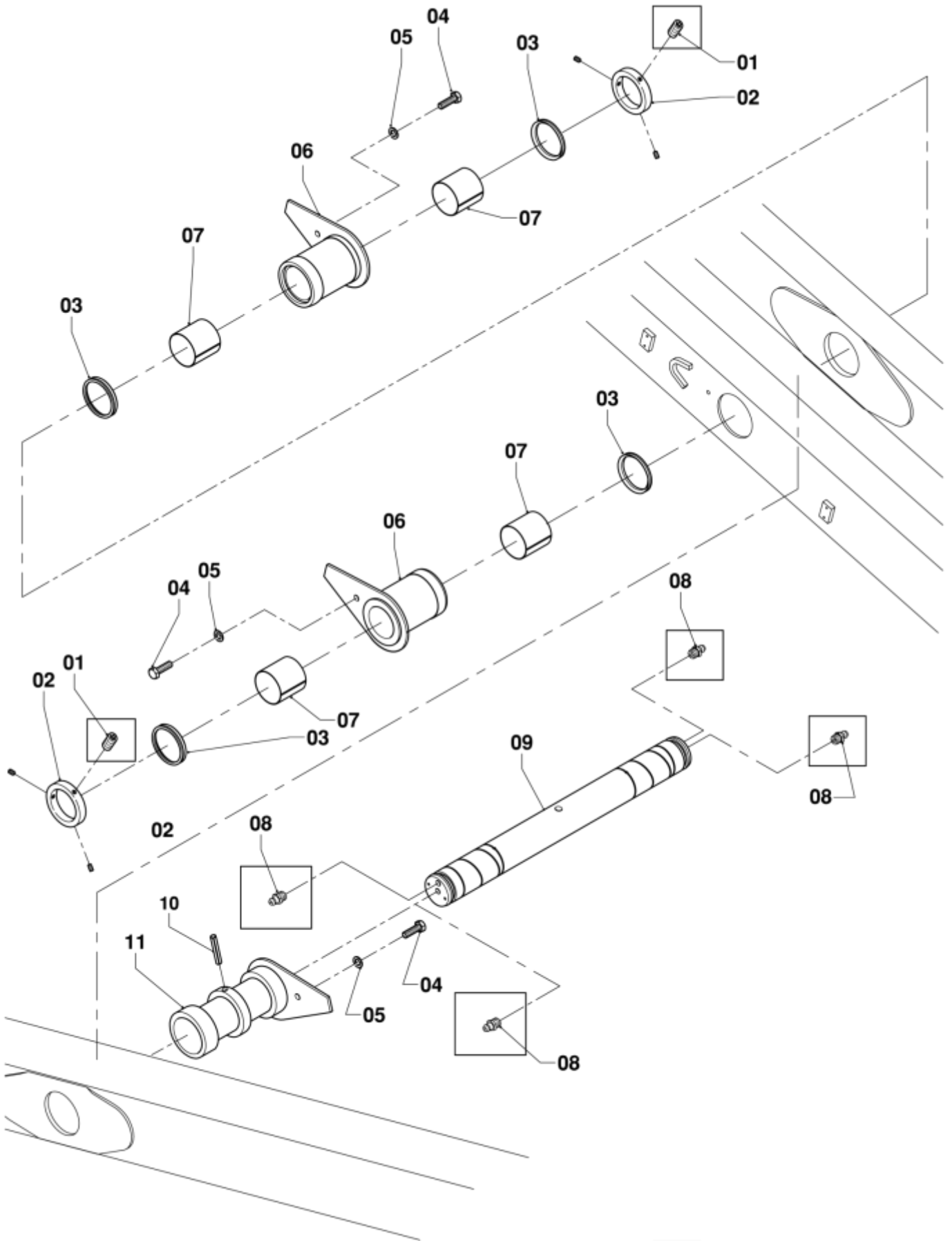
Item	Qty	Part number	Description
1	6	07840.100.020	Screw, DIN 916
2	1	RING60	Retaining ring
3	4	AFDICHT65A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V120-01-42-4	Bush (outer / 20)
7	4	FLAGER156	Bearing Ø 60 / L = 60
8	4	NIPPELM8x1,25	Grease nipple
9	1	V120-01-42-3	Pin Ø 60 x 582
10	1	STIFT18 x80	Spring type straight pin
11	1	V120-01-42-2	Bush (inner / 20)

### Joint 20-B



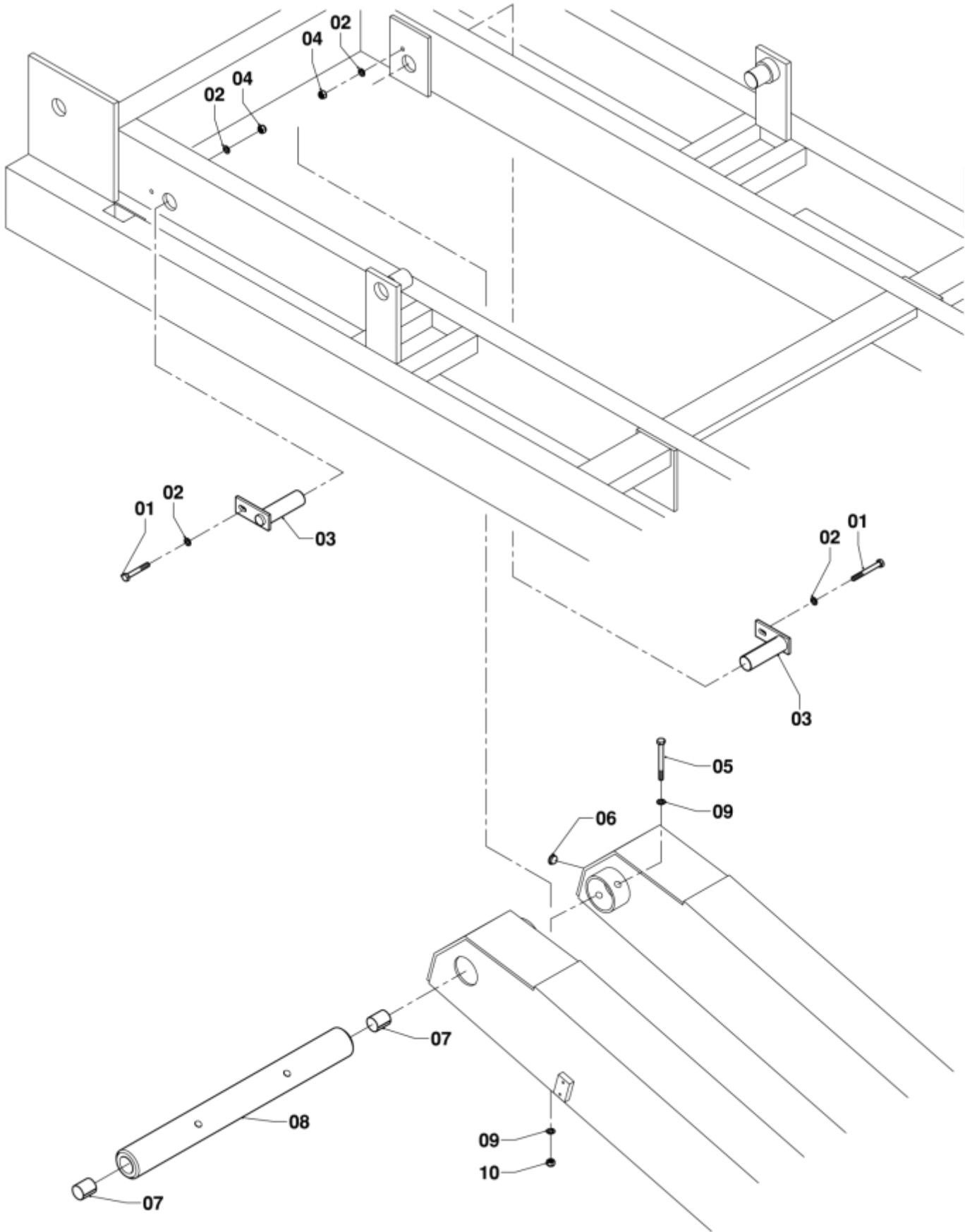
Item	Qty	Part number	Description
1	6	07840.100.020	Screw, DIN 916
2	1	RING60	Retaining ring
3	4	AFDICHT65A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V140-01-42-1	Bush (outer / 20)
7	4	FLAGER156	BearingØ 60 / L = 60
8	4	NIPPELM8x1,25	Grease nipple
9	1	V140-01-42-3	Pin Ø 60 x 582
10	1	STIFT18 x80	Spring type straight pin
11	1	V140-01-42-2	Bush (inner / 20)

### Joint 20-C



Item	Qty	Part number	Description
1	6	07840.100.020	Screw, DIN 916
2	1	RING60	Retaining ring
3	4	AFDICHT65A	Seal
4	3	01210.120.020	Bolt, DIN 933
5	3	38130.120.001	Washer, DIN 125-A
6	2	V165-01-42-1	Bush (outer / 20)
7	4	FLAGER156	Bearing Ø 60 / L = 60
8	4	NIPPELM8x1,25	Grease nipple
9	1	V165-01-42-3	Pin Ø 60 x 582
10	1	STIFT18 x80	Spring type straight pin
11	1	V165-01-42-2	Bush (inner / 20)

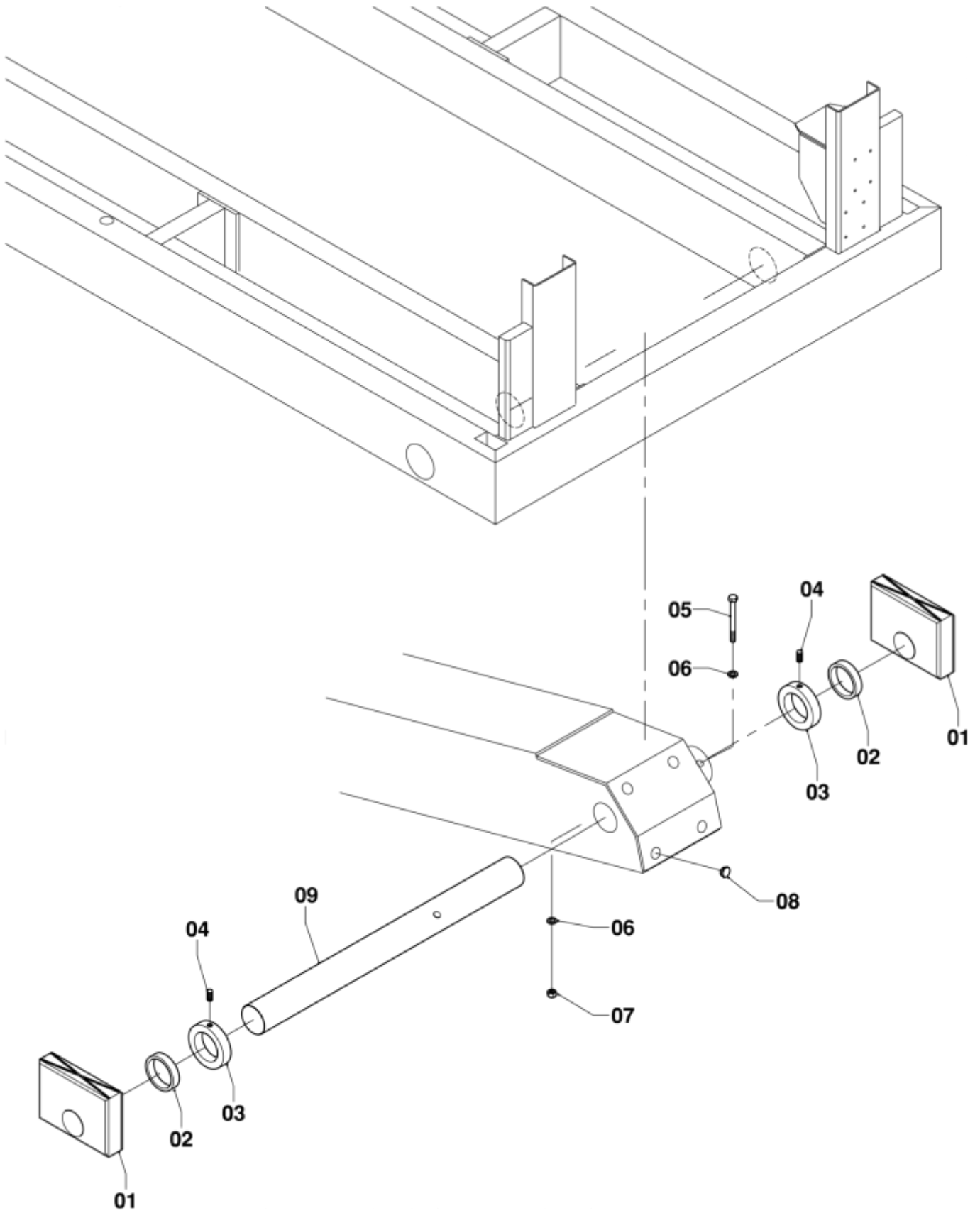
### Joint 13





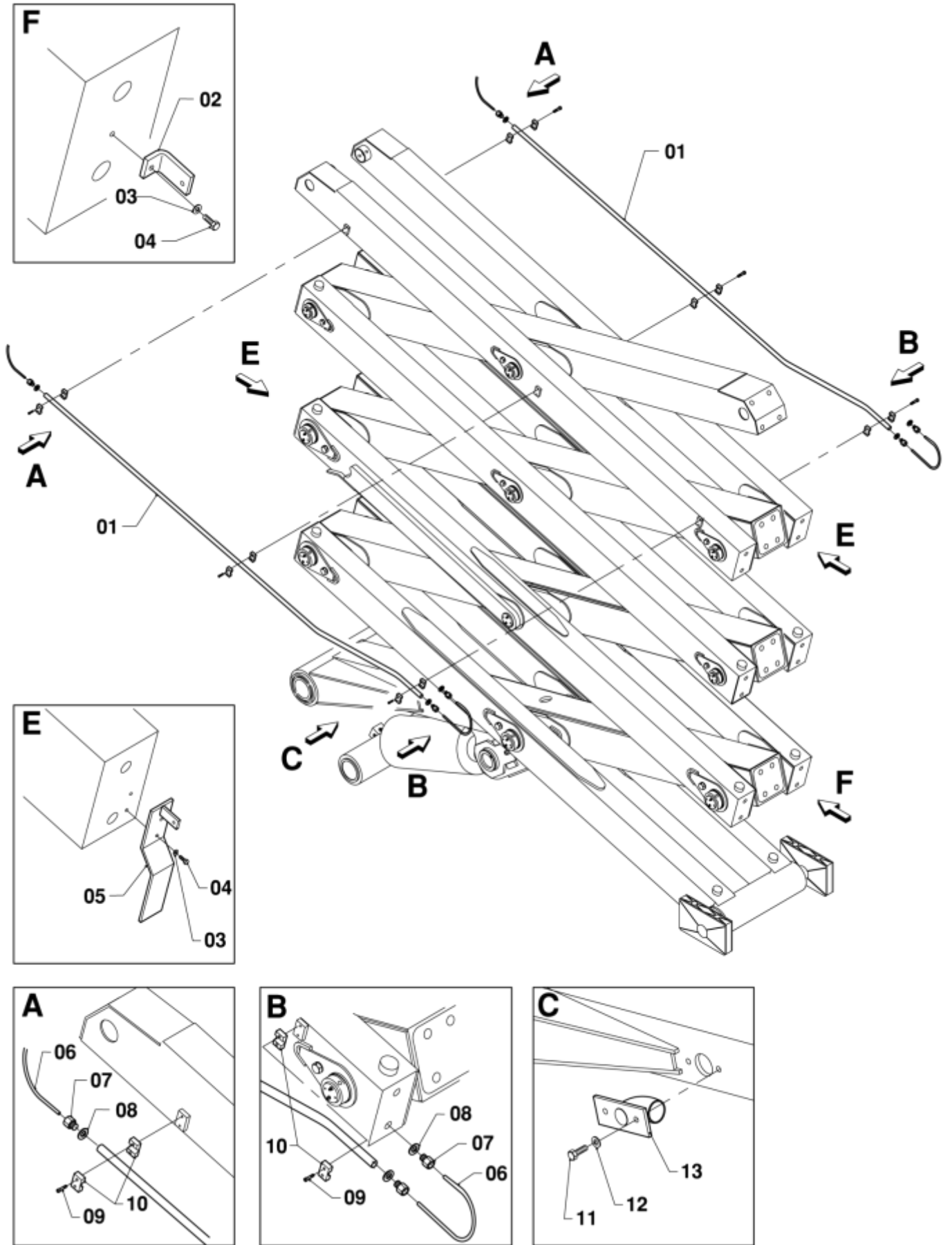
Item	Qty	Part number	Description
1	2	01200.080.020	Bolt, DIN 931
2	4	38130.080.001	Washer, DIN 125-A
3	2	V-01-36-1	Pin Ø 30 x 107
4	2	12300.080.001	Nut, DIN 985
5	2	01200.100.090	Bolt, DIN 931
6	4	STOP022	Plug
7	2	FLAGER066	Bearing Ø 30 / L = 40
8	1	V-01-36-2	Pin Ø 60 x 572
9	4	38130.100.001	Washer, DIN 125-A
10	2	12300.100.001	Nut, DIN 985

### Joint 14



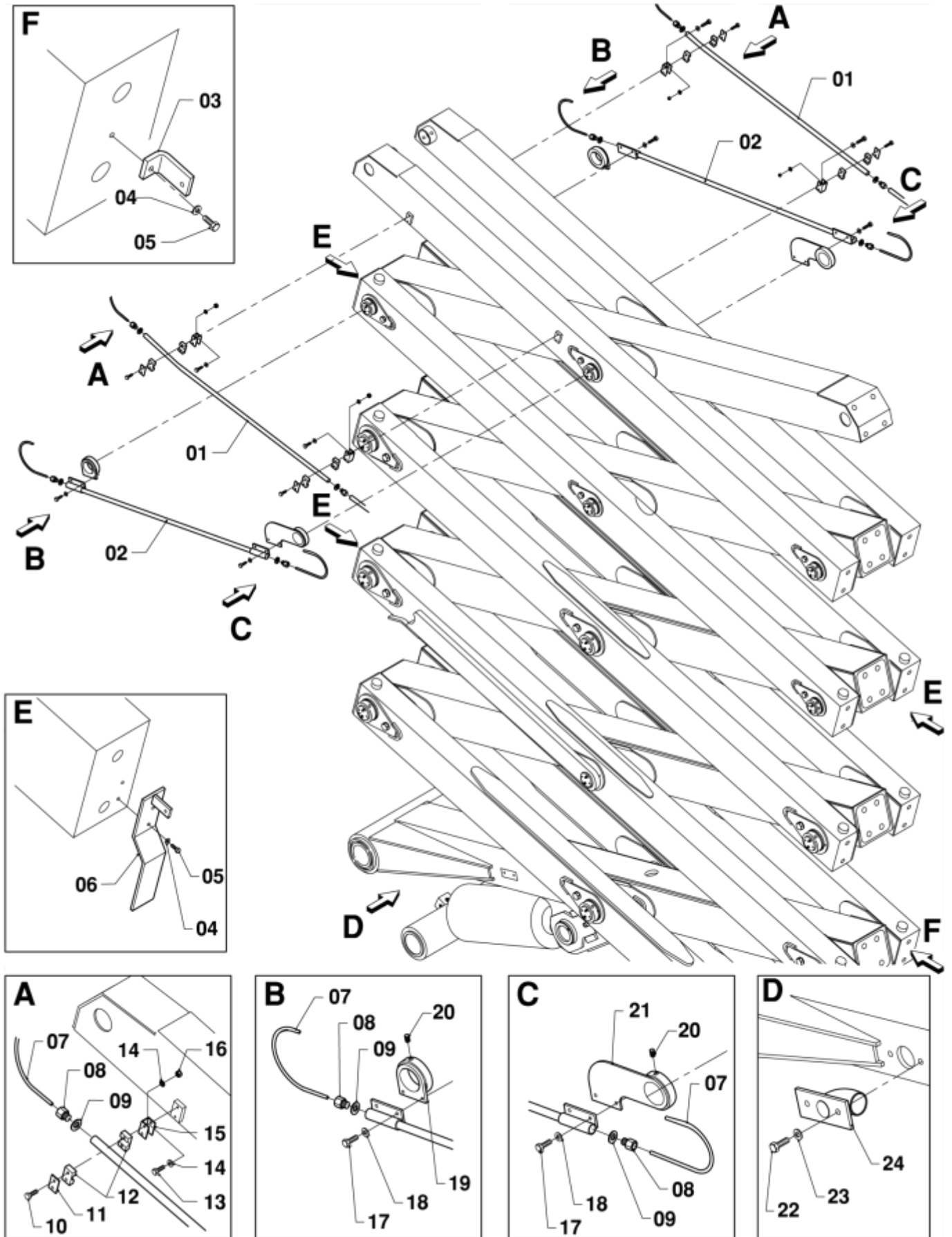
Item	Qty	Part number	Description
1	2	V-01-36-3	Sliding block (GLYBLOK067)
2	2	V-01-36-4	Spacer
3	2	RING60	Retaining ring
4	2	07840.100.025	Screw, DIN 916
5	1	01200.100.090	Bolt, DIN 931
6	2	38130.100.001	Washer, DIN 125-A
7	1	12300.100.001	Nut, DIN 985
8	4	STOP022	Plug
9	1	V-01-36-5	As Ø 60 x 676

### Cable guide HL-140 - N-120



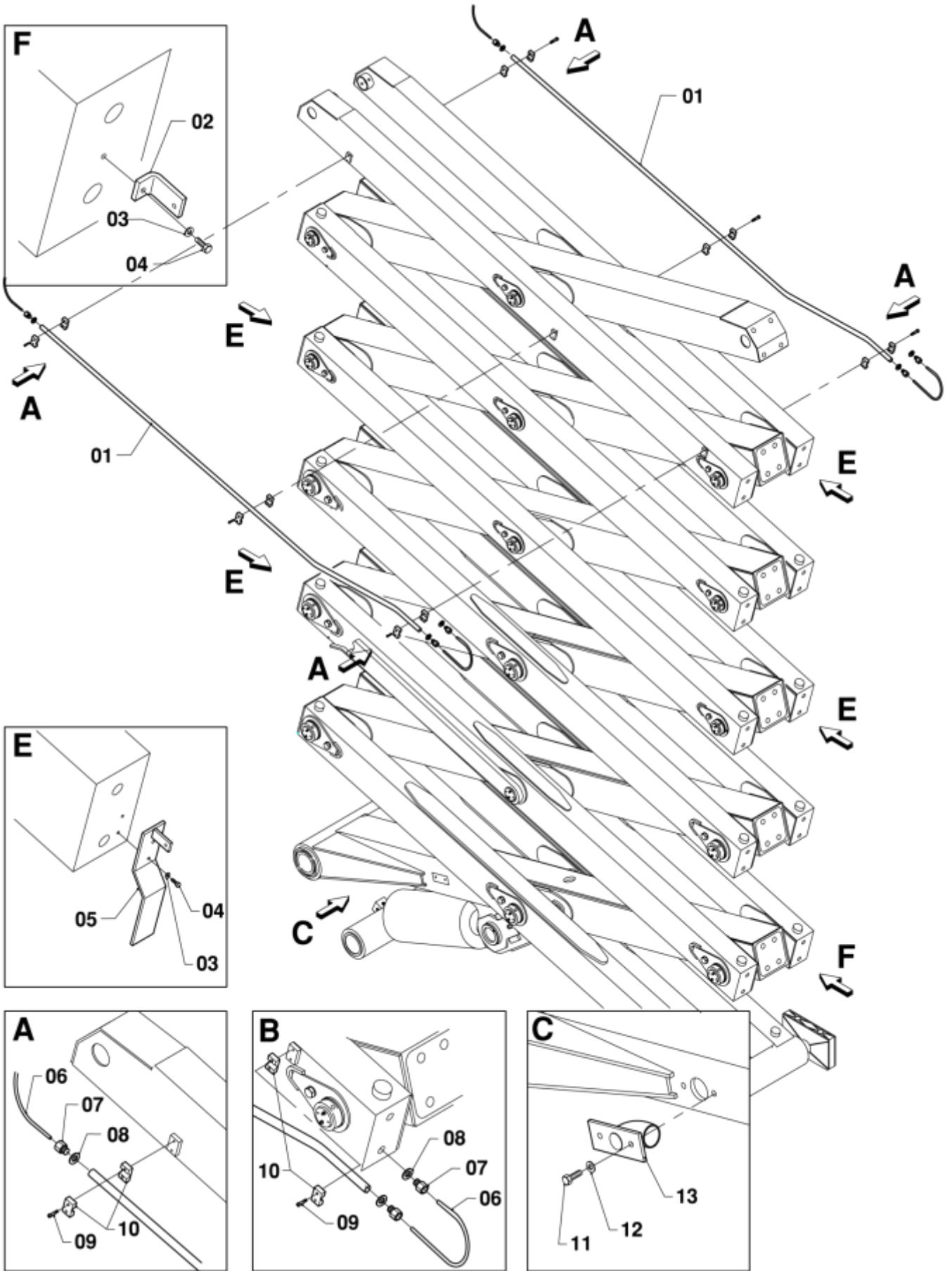
Item	Qty	Part number	Description
1	2	V120-01-69-1	Cable guide
2	2	V120-01-69-2	Cable bracket
3	10	38130.050.001	Washer, DIN 125-A
4	10	07840.050.020	Bolt, DIN 916
5	4	V120-01-69-3	Cable bracket
6	-	- - - -	Cable
7	-	WARTEL 13.5 K	Cable gland
8	-	ADAPTOR 02	Adapter
9	8	01210.060.050	Bolt, DIN 933
10	12	LEIDB025	Pipe bracket
11	4	01210.100.025	Bolt, DIN 933
12	4	38130.100.001	Washer, DIN 125-A
13	2	V120-01-69-4	Cable entrance

### Cable guide HL-160 - N-140



Item	Qty	Part number	Description
1	2	V140-01-69-1	Cable guide
2	2	V140-01-69-2	Cable guide
3	2	V140-01-69-3	Cable bracket
4	14	38130.050.001	Washer, DIN 125-A
5	14	07840.050.020	Bolt, DIN 916
6	6	V140-01-69-4	Cable bracket
7	-	- - - -	Cable
8	-	WARTEL 13.5 K	Cable gland
9	-	ADAPTOR 02	Adapter
10	8	01210.060.050	Bolt, DIN 933
11	4	LEIDB.PL	Cover plate
12	8	LEIDB025	Pipe bracket
13	8	01210.060.012	Bolt, DIN 933
14	16	38130.050.001	Washer, DIN 125-A
15	4	V140-01-69-5	U-Profile
16	8	01210.060.001	Nut, DIN 985
17	8	01210.080.016	Bolt, DIN 933
18	8	38130.080.001	Washer, DIN 125-A
19	2	V140-01-69-6	Retaining ring + plate
20	6	07840.100.020	Screw, DIN 916
21	2	V140-01-69-7	Retaining ring + plate
22	4	01210.100.025	Bolt, DIN 933
23	4	38130.100.001	Washer, DIN 125-A
24	2	V140-01-69-8	Cable entrance

### Cable guide HL-190 - N-165

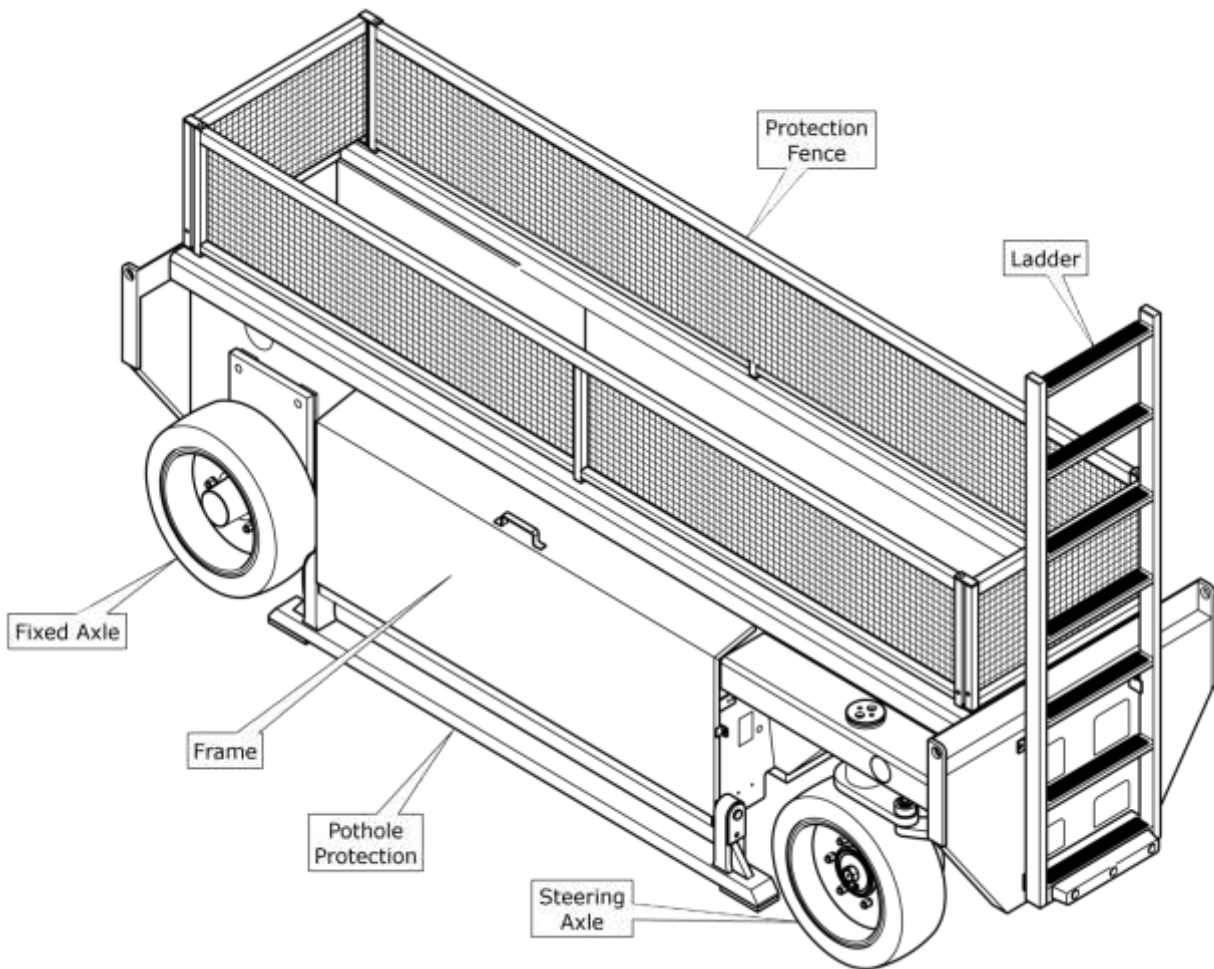




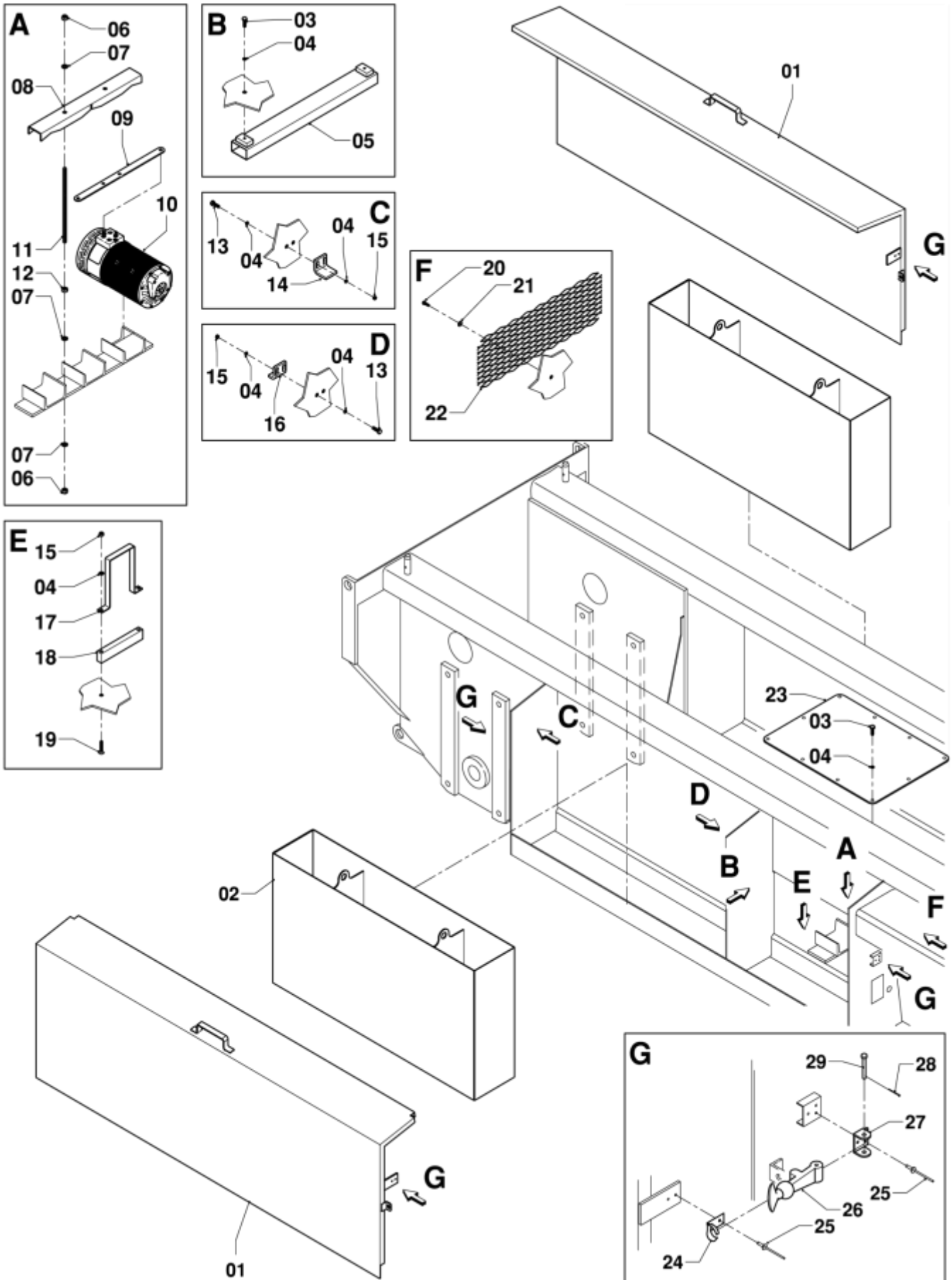
Item	Qty	Part number	Description
1	2	V165-01-69-1	Cable guide
2	2	V165-01-69-2	Cable bracket
3	18	38130.050.001	Washer, DIN 125-A
4	18	07840.050.020	Bolt, DIN 916
5	8	V165-01-69-3	Cable bracket
6	-	- - - -	Cable
7	-	WARTEL 13.5 K	Cable gland
8	-	ADAPTOR 02	Adapter
9	8	01210.060.050	Bolt, DIN 933
10	8	LEIDB025	Stauff bracket 25 mm
11	4	01210.100.025	Bolt, DIN 933
12	4	38130.100.001	Washer, DIN 125-A
13	2	V165-01-69-4	Cable entrance



# SECTION FRAME

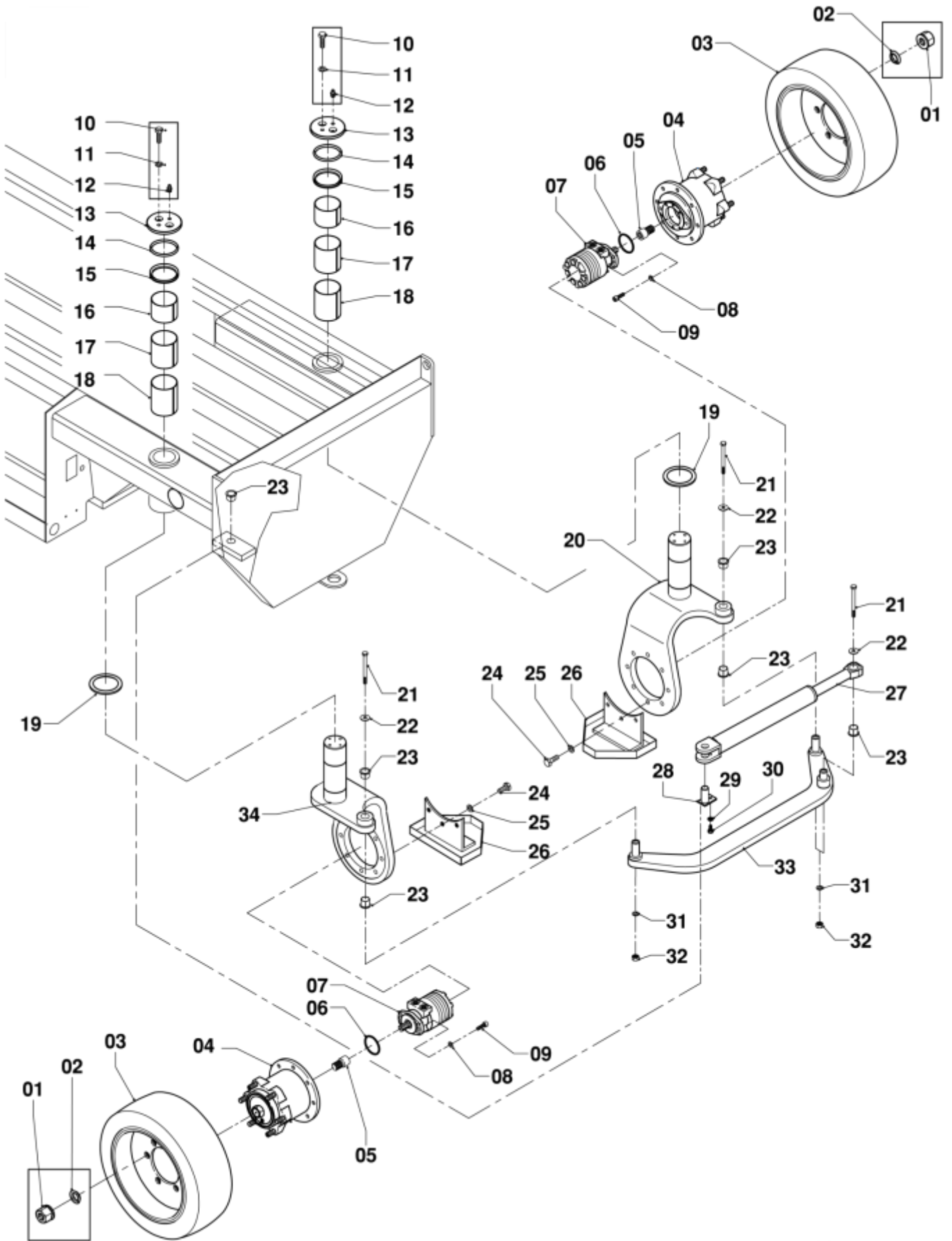


# Frame



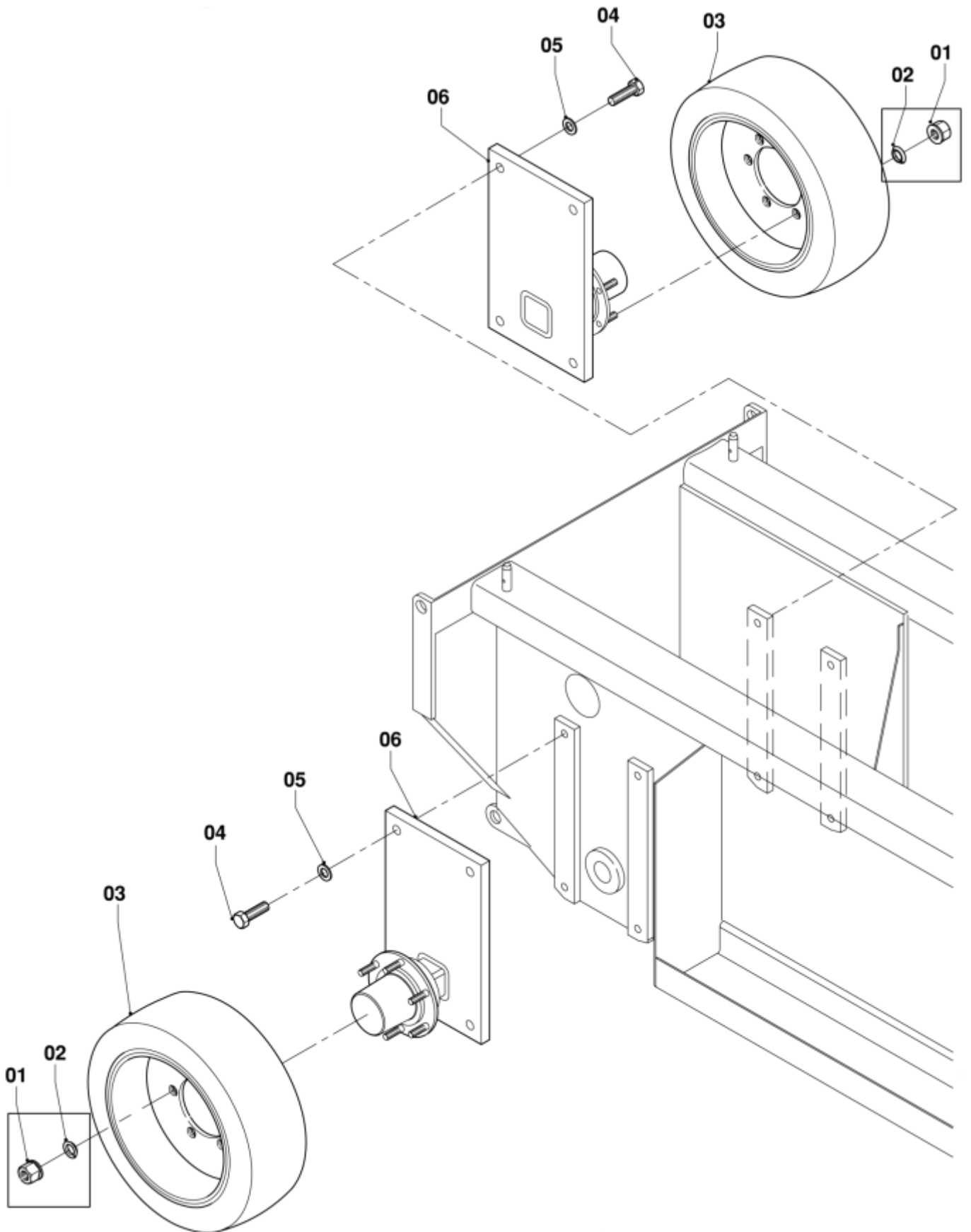
Item	Qty	Part number	Description
1	2	K-01-128	Cover
2	2	K-01-130	Battery container
3	12	01210.080.020	Bolt, DIN 933
4	28	38130.080.001	Washer, DIN 125-A
5	1	V-01-12-1	Cable guide
6	4	12300.100.001	Nut, DIN 985
7	6	38130.100.001	Washer, DIN 125-A
8	1	V-01-16-1	Motor bracket
9	1	- - - -	Copper strip
10	-	(See hydraulic plan)	Elektro-hydro pump
11	2	V-01-16-2	M10 / L= 250 / 8.8
12	2	01300.050.001	NUT, DIN 934
13	4	01210.080.030	Bolt, DIN 933
14	2	V-01-16-3	Locking strip
15	12	12300.080.001	Nut, DIN 985
16	2	V-01-16-4	Locking strip
17	2	V-01-16-5	Bracket
18	2	V-01-16-6	Block
19	4	07470.080.055	Bolt, DIN 7991
20	4	01210.060.020	Bolt, DIN 933
21	4	38130.060.001	Washer, DIN 125-A
22	1	V-01-18	Gauze
23	1	V-01-12-2	Plate
24	20	32200.040.010	4 x 10,5
25	4	SLUIT010	Fastening

# Steering axle



Item	Qty	Part number	Description
1	12	MOER190	Nut
2	2	R74361/M18	Washer, DIN 74361
3	2	W-01-50	Wheel (WIEL071NM)
4	2	WIELK050A	Drive hub
5	2	- - - -	Adapter
6	2	- - - -	O-ring 9,25 x 1,78
7	2	HMOTOR500	Hydromotor
8	4	38130.120.001	Washer, DIN 125-A
9	4	38734.120.030	Bolt, DIN 912 12.9
10	4	01210.100.025	Bolt, DIN 933
11	4	38130.100.001	Washer, DIN 125-A
12	4	NIPPELM8x1,25	Grease nipple
13	2	V12-01-37-1	Locking plate
14	2	- - - -	O-ring 75,8 x 2,62
15	2	AFDICHT110A	Seal
16	2	FLAGER200	Bearing Ø 90 / L = 40
17	2	FLAGER201	Bearing Ø 90 / L = 90
18	2	FLAGER211	Bearing Ø 90 / L = 100
19	2	V12-01-37-2	Bearing
20	1	V12-01-37-3	Wheel support, Left
21	3	01200.160.140	Bolt, DIN 931
22	3	38210.160.001	Washer, DIN 9021
23	5	FLAGER572	Bearing
24	16	01210.160.060	Bolt, DIN 933
25	16	04030.160.001	Washer
26	2	K-01-129	Drip tray
27	1	CIL150W	Steer cylinder
28	1	V12-01-35-1	Pin
29	1	38130.010.001	Washer, DIN 125-A
30	1	01210.010.020	Bolt, DIN 933
31	3	38130.160.001	Washer, DIN 125-A
32	3	12300.160.001	Nut, DIN 985
33	1	V12-01-35-2	Track rod
34	1	V12-01-37-4	Wheel support, Right

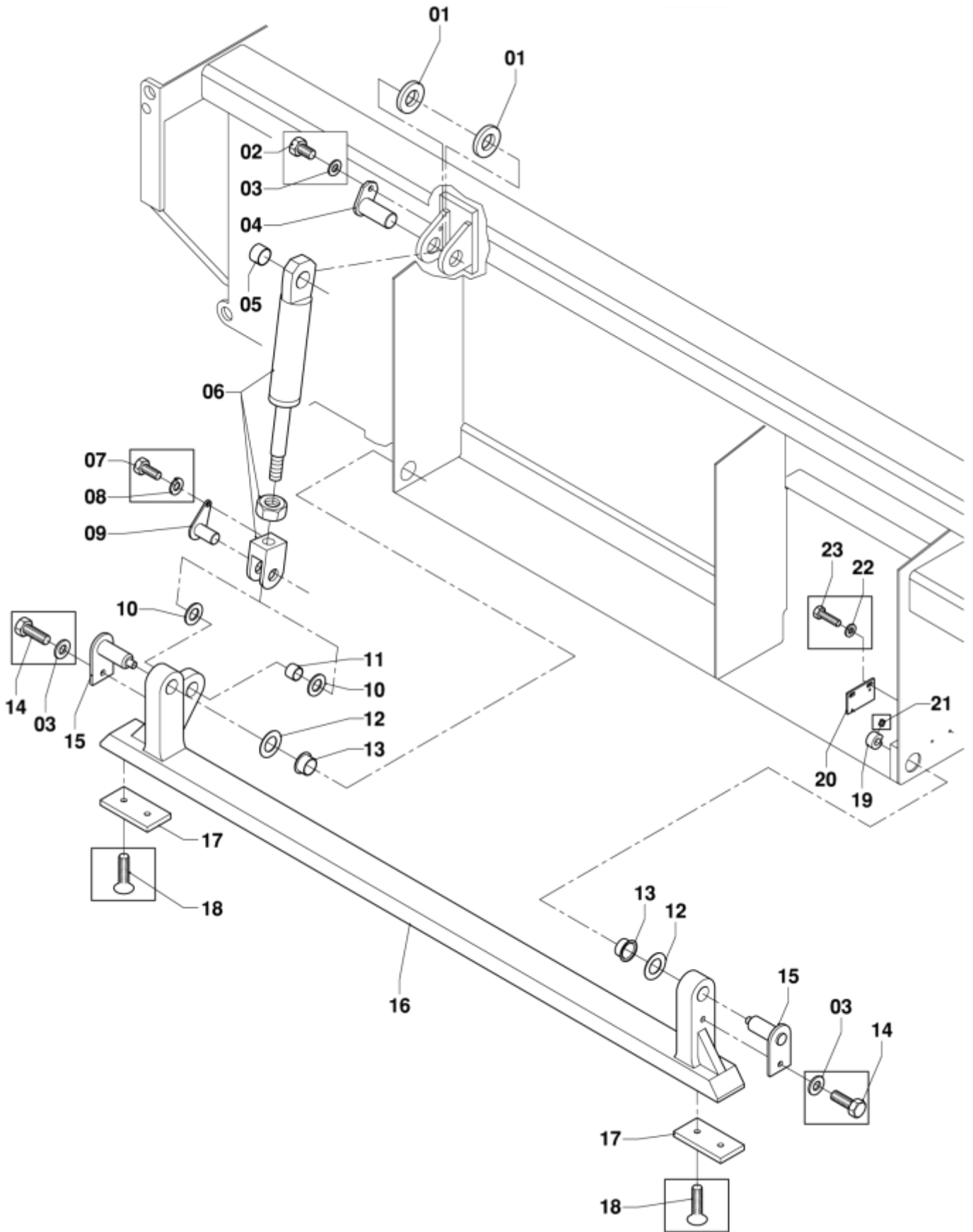
## Fixed Axle





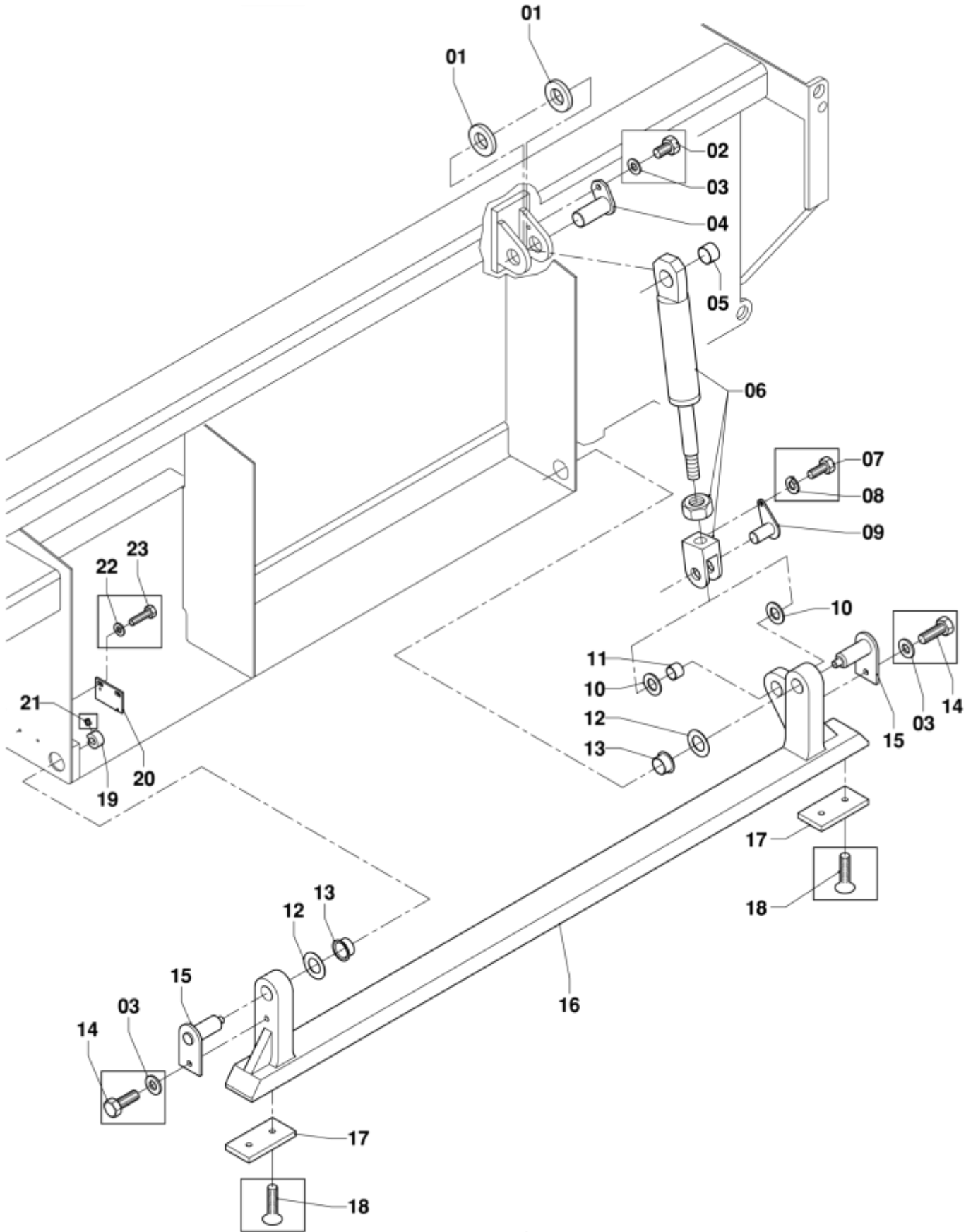
<b>Item</b>	<b>Qty</b>	<b>Part number</b>	<b>Description</b>
1	12	MOER190	Nut
2	12	R74361/M18	Washer, DIN 74361
3	2	W-01-50	Wheel (WIEL071NM)
4	8	01210.240.80	Bolt, DIN 933
5	8	04030.240.001	Washer
6	2	V12-01-40	Rear axle

### Pothole Protection 1-2



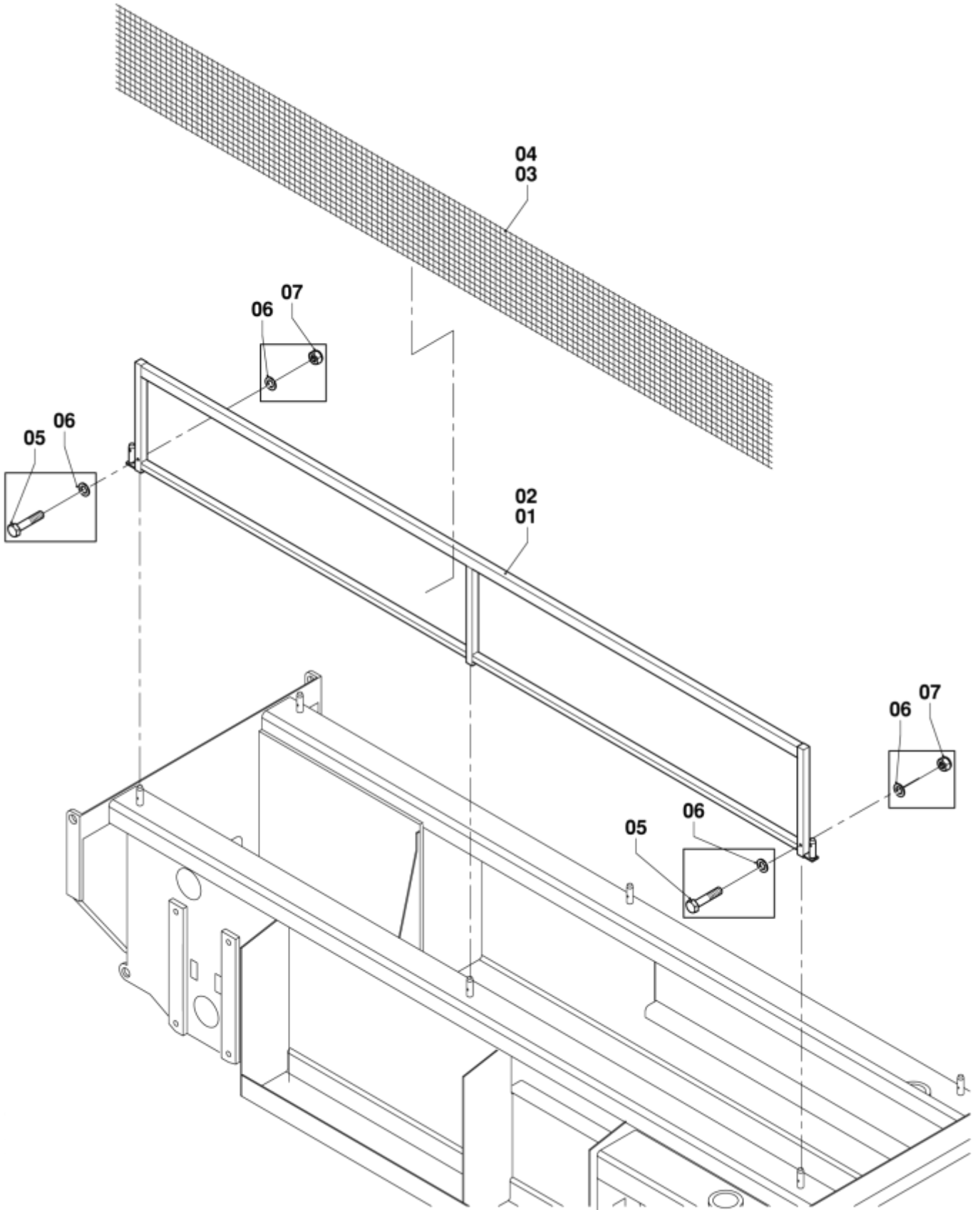
Item	Qty	Part number	Description
1	2	V-01-17-1	Washer
2	1	01210.120.020	Bolt, DIN 933
3	3	38130.120.001	Washer, DIN 125-A
4	1	V-01-17-2	Pin
5	1	FLAGER078	Bearing Ø 40 / L = 30
6	1	CIL040W	Pot hole cylinder
7	1	01210.100.025	Bolt, DIN 933
8	1	38130.100.001	Washer, DIN 125-A
9	1	V-01-17-3	Pin
10	4	V-01-17-4	Washer
11	1	FLAGER018	Bearing Ø 30 / L = 25
12	2	V-01-17-5	Washer
13	2	FLAGER578	Bearing Ø 45 / L = 30
14	2	01210.120.035	Bolt, DIN 933
15	2	V-01-17-6	Pin
16	1	V-01-17-7	Pot hole beam R
17	2	V-01-17-8	Plate
18	4	07470.120.025	Bolt, DIN 7991
19	1	V-01-17-9	Cam disc
20	1	V-01-17-10	Plate
21	1	07840.060.008	Bolt, DIN 916
22	2	38130.080.001	Washer, DIN 125-A
23	2	01210.080.030	Bolt, DIN 933

### Pothole Protection 2-2



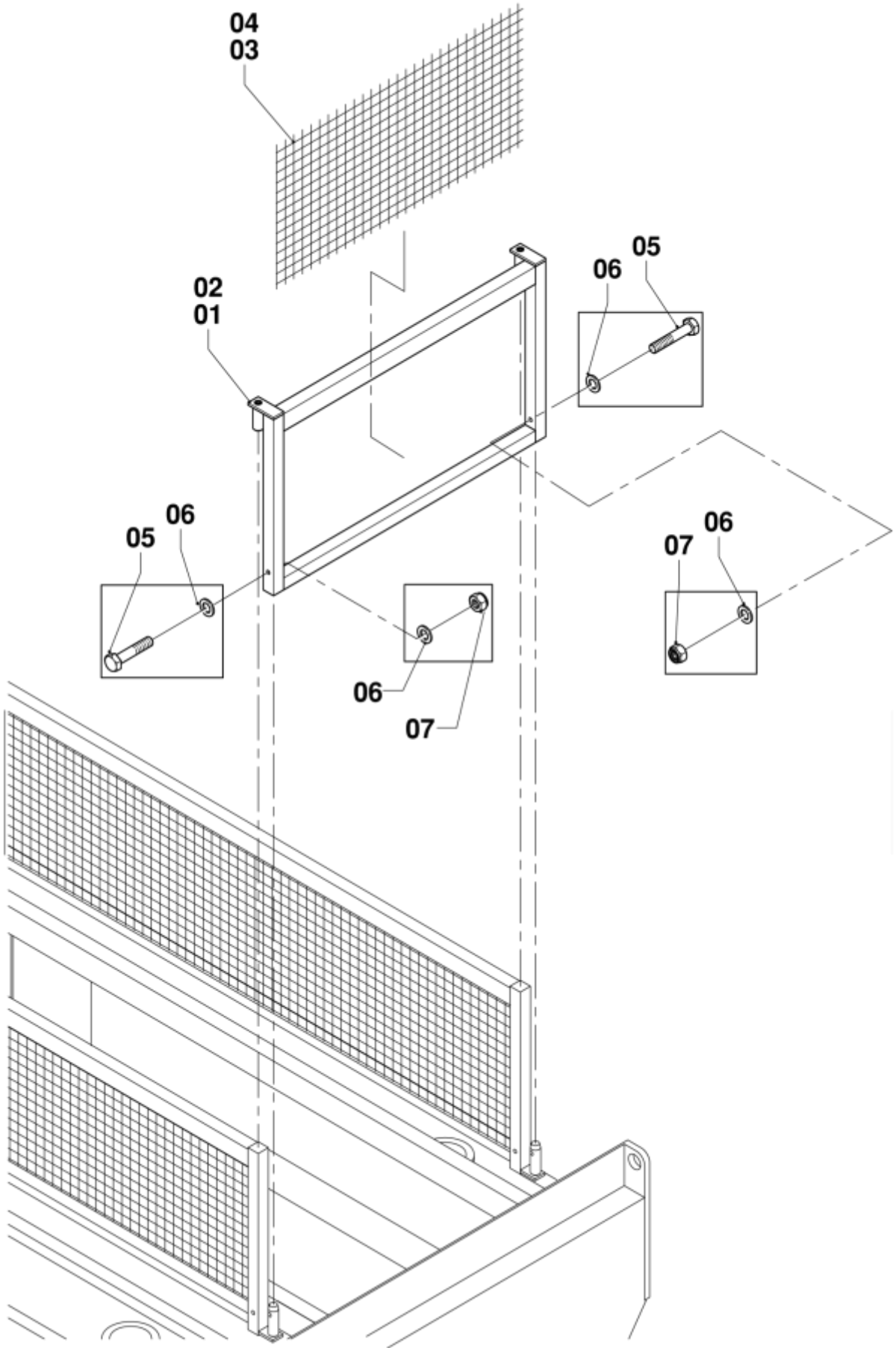
Item	Qty	Part number	Description
1	2	V-01-17-1	Washer
2	1	01210.120.020	Bolt, DIN 933
3	3	38130.120.001	Washer, DIN 125-A
4	1	V-01-17-2	Pin
5	1	FLAGER078	Bearing Ø 40 / L = 30
6	1	CIL040W	Pot hole cylinder
7	1	01210.100.025	Bolt, DIN 933
8	1	38130.100.001	Washer, DIN 125-A
9	1	V-01-17-3	Pin
10	4	V-01-17-4	Washer
11	1	FLAGER018	Bearing Ø 30 / L = 25
12	2	V-01-17-5	Washer
13	2	FLAGER578	Bearing Ø 45 / L = 30
14	2	01210.120.035	Bolt, DIN 933
15	2	V-01-17-6	Pin
16	1	V-01-17-11	Pot hole beam L
17	2	V-01-17-8	Plate
18	4	07470.120.025	Bolt, DIN 7991
19	1	V-01-17-9	Cam disc
20	1	V-01-17-10	Plate
21	1	07840.060.008	Bolt, DIN 916
22	2	38130.080.001	Washer, DIN 125-A
23	2	01210.080.030	Bolt, DIN 933

### Protection Fence 1-4



<b>Item</b>	<b>Qty</b>	<b>Part number</b>	<b>Description</b>
1	1	V-01-61-1	Protection fence (HL-160-190 E12 - N-140-165EL12)
2	1	V120-01-61-1	Protection fence (HL-140 E12 - N-120EL12)
3	-	GAAS 100	Gauze (HL-160-190 E12 - N-140-165EL12)
4	-	GAAS 100	Gauze (HL-140 E12 - N-120EL12)
5	2	01200.080.045	Bolt, DIN 931
6	4	38130.080.001	Washer, DIN 125-A
7	2	12300.080.001	Nut, DIN 985

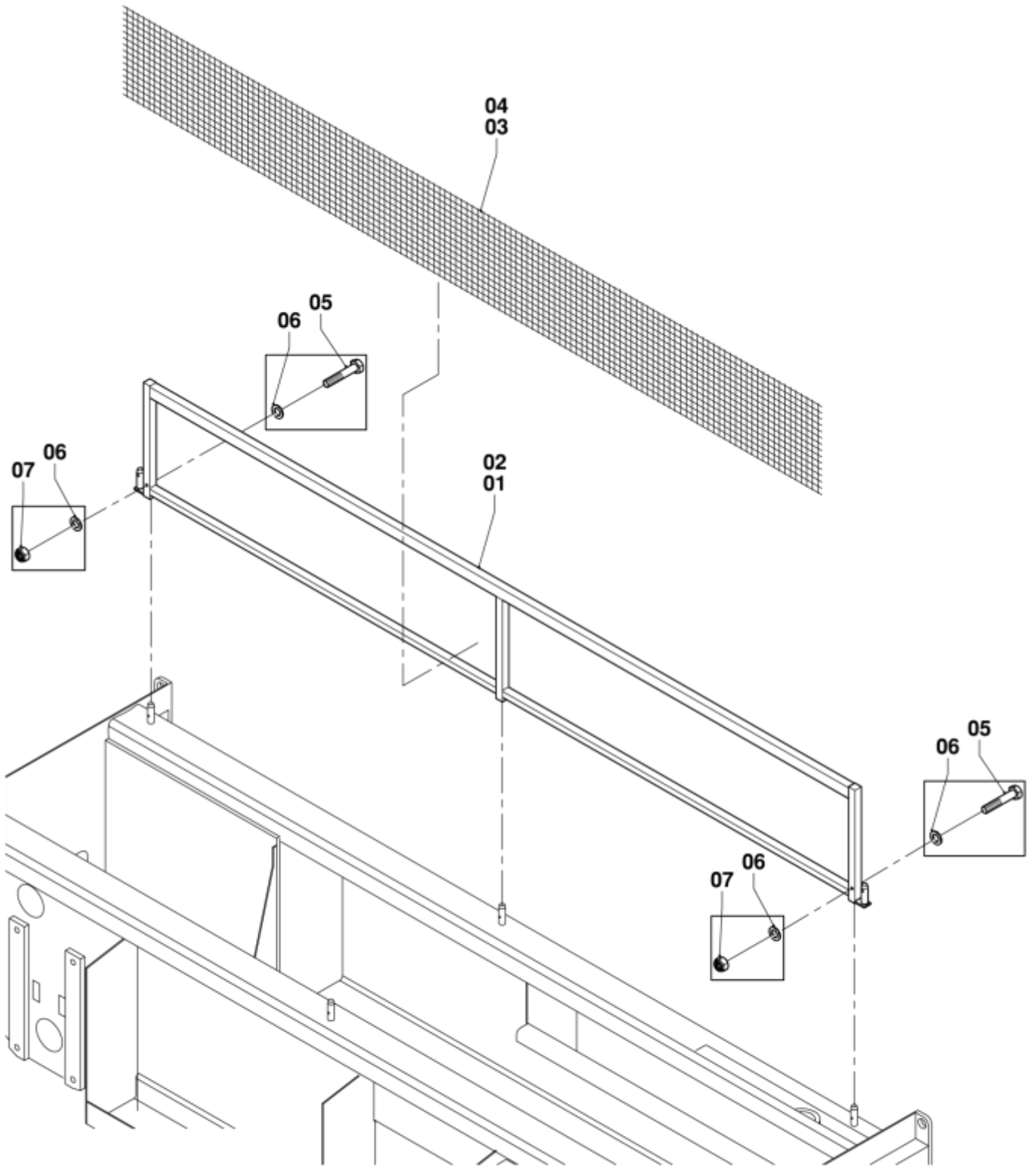
### Protection Fence 2-4





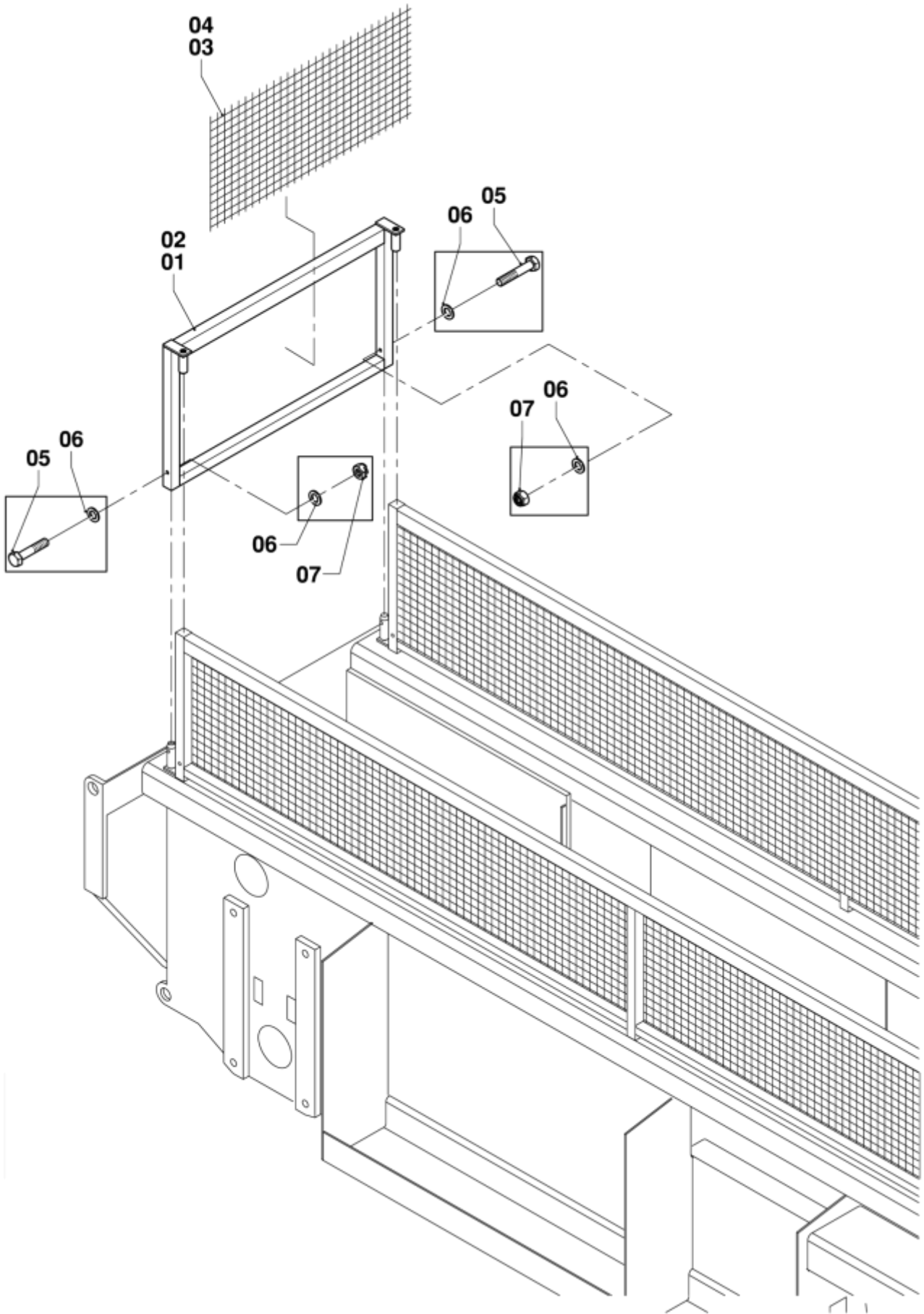
<b>Item</b>	<b>Qty</b>	<b>Part number</b>	<b>Description</b>
1	1	V-01-61-2	Protection fence (HL-160-190 E12 - N-140-165EL12)
2	1	V120-01-61-2	Protection fence (HL-140 E12 - N-120EL12)
3	-	GAAS 100	Gauze (HL-160-190 E12 - N-140-165EL12)
4	-	GAAS 100	Gauze (HL-140 E12 - N-120EL12)
5	2	01200.080.045	Bolt, DIN 931
6	4	38130.080.001	Washer, DIN 125-A
7	2	12300.080.001	Nut, DIN 985

### Protection Fence 3-4



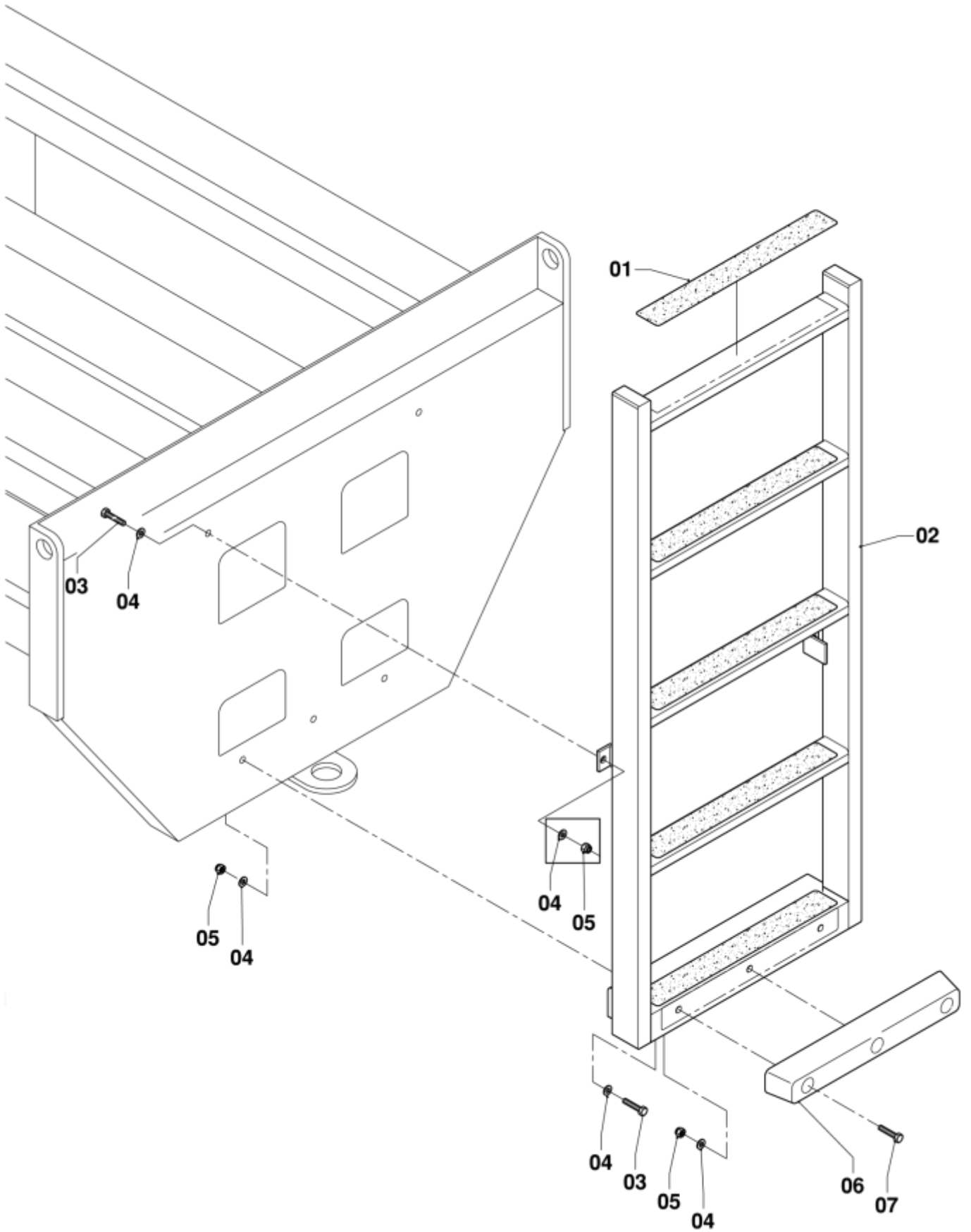
Item	Qty	Part number	Description
1	1	V-01-61-1	Protection fence (HL-160-190 E12 - N-140-165EL12)
2	1	V120-01-61-1	Protection fence (HL-140 E12 - N-120EL12)
3	-	GAAS 100	Gauze (HL-160-190 E12 - N-140-165EL12)
4	-	GAAS 100	Gauze (HL-140 E12 - N-120EL12)
5	2	01200.080.045	Bolt, DIN 931
6	4	38130.080.001	Washer, DIN 125-A
7	2	12300.080.001	Nut, DIN 985

Protection Fence 4-4



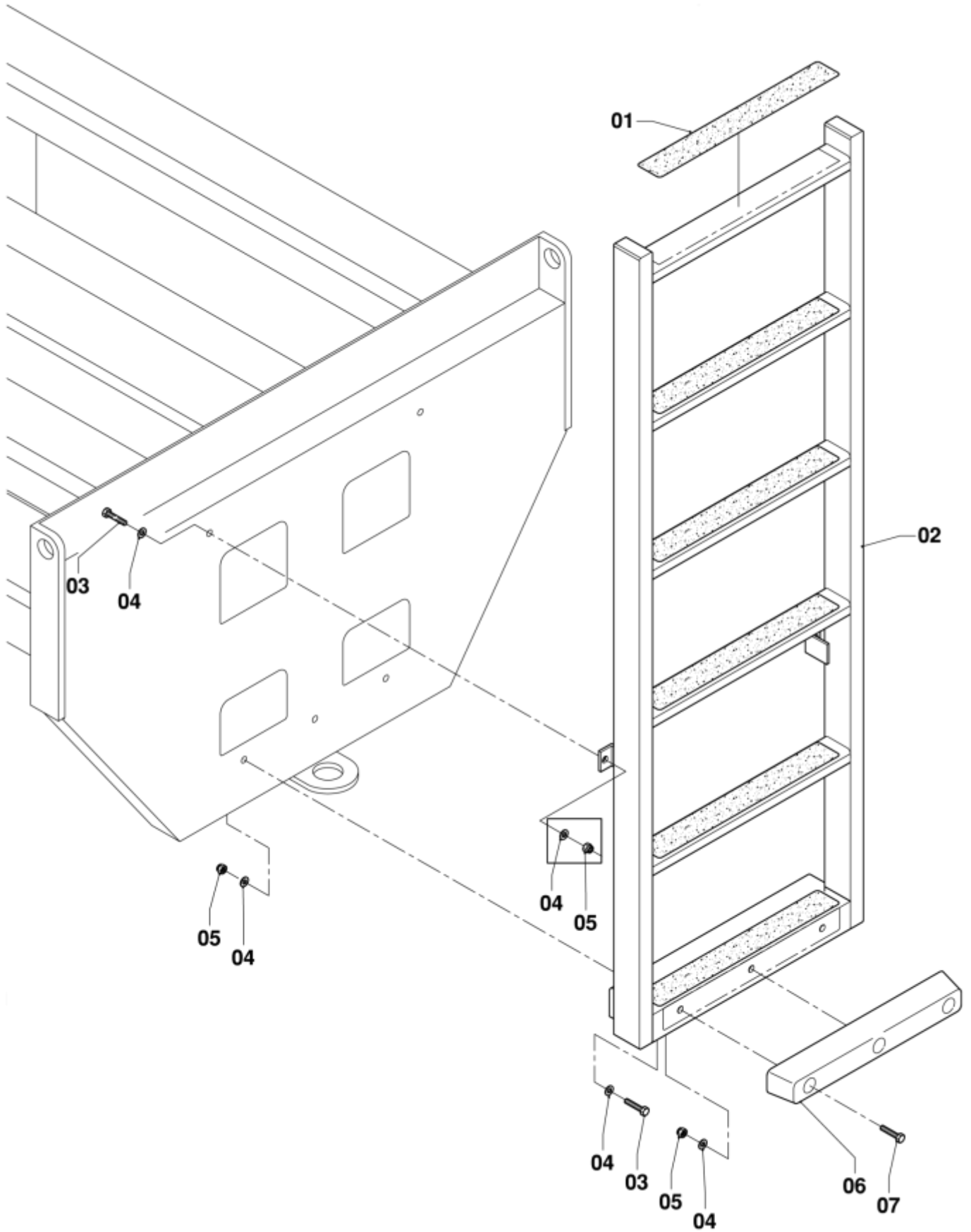
<b>Item</b>	<b>Qty</b>	<b>Part number</b>	<b>Description</b>
1	1	V-01-61-2	Protection fence (HL-160-190 E12 - N-140-165EL12)
2	1	V120-01-61-2	Protection fence (HL-140 E12 - N-120EL12)
3	-	GAAS 100	Gauze (HL-160-190 E12 - N-140-165EL12)
4	-	GAAS 100	Gauze (HL-140 E12 - N-120EL12)
5	2	01200.080.045	Bolt, DIN 931
6	4	38130.080.001	Washer, DIN 125-A
7	2	12300.080.001	Nut, DIN 985

# Ladder HL-140 - N-120



<b>Item</b>	<b>Qty</b>	<b>Part number</b>	<b>Description</b>
1	5	Band420X50	Slip-resistant strip
2	1	V120-01-65	Ladder
3	5	01210.100.30	Bolt, DIN 933
4	10	38130.100.001	Washer, DIN 125-A
5	11	12300.100.001	Nut, DIN 985
6	2	STOOTR10	Buffer
7	6	01200.100.45	Bolt, DIN 931

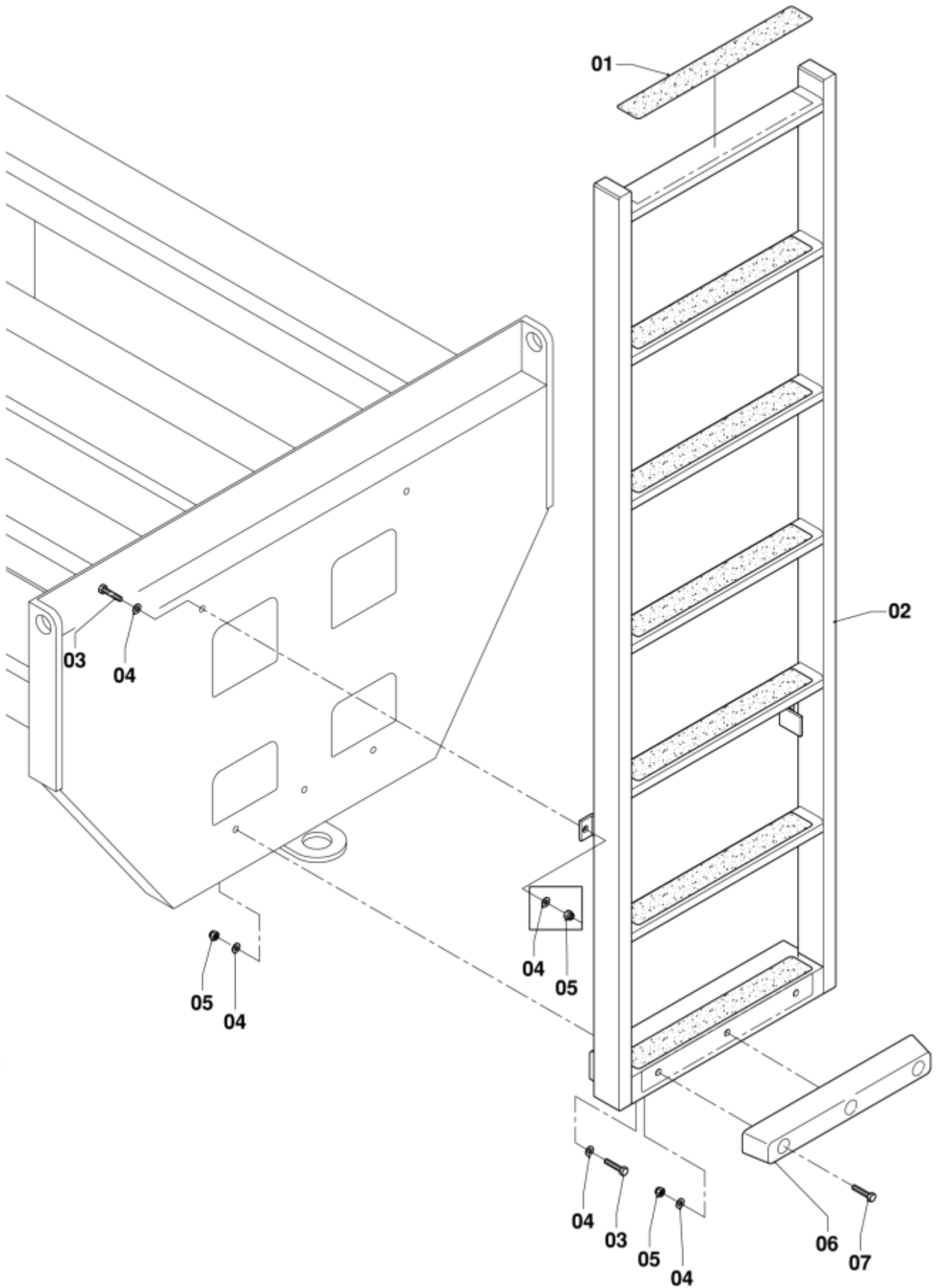
# Ladder HL-160 - N-140





<b>Item</b>	<b>Qty</b>	<b>Part number</b>	<b>Description</b>
1	6	Band420X50	Slip-resistant strip
2	1	V140-01-65	Ladder
3	5	01210.100.30	Bolt, DIN 933
4	10	38130.100.001	Washer, DIN 125-A
5	11	12300.100.001	Nut, DIN 985
6	2	STOOTR10	Buffer
7	6	01200.100.45	Bolt, DIN 931

### Ladder HL-190 - N-165

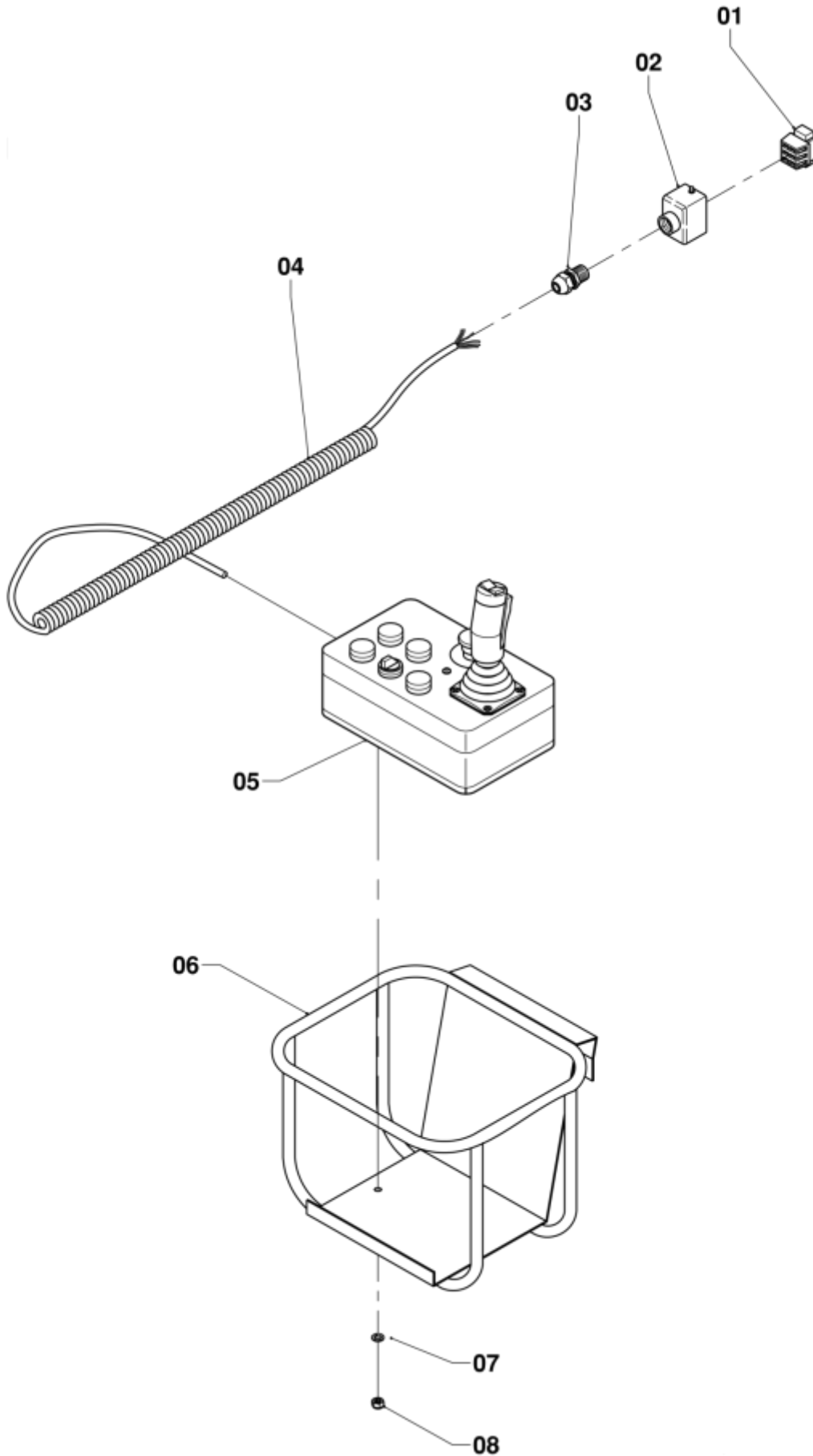


<b>Item</b>	<b>Qty</b>	<b>Part number</b>	<b>Description</b>
1	7	Band420X50	Slip-resistant strip
2	1	V165-01-65	Stair
3	5	01210.100.30	Bolt, DIN 933
4	10	38130.100.001	Washer, DIN 125-A
5	11	12300.100.001	Nut, DIN 985
6	2	STOOTR10	Buffer
7	6	01200.100.45	Bolt, DIN 931



# **SECTION CONTROL**

# Control Box



Item	Qty	Part number	Description
1	1	(See electric plan)	Plug, inner
2	1	(See electric plan)	Hood
3	2	- - - -	Cable gland
4	1	E/KAB TYPE2	Cable
5	1	(See electric plan)	Control box assembly
6	1	N-03-15	Protection bracket
7	2	38130.080.001	Washer, DIN 125-A
8	2	12300.080.001	Nut, DIN 985