



VALX warranty and repair work, time allowances

Axles and Air suspensions



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Revision summary

Date	Revision number	Comment
May 2016	01	Initial version
April 2020	02	Document style update
May 2020	03	Add tail end, offset plate, axle clamping and hub complete without disc
December 2020	04	Summed values corrected in steps 2.6 and 4.20

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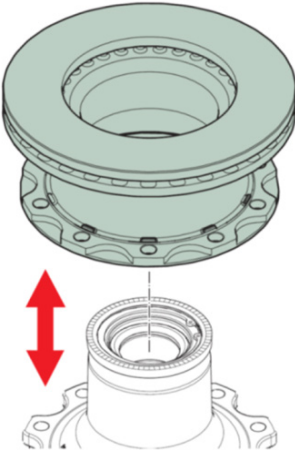
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1. General information

Instructions for the use of the table of repair times for warranty work.

Brake disc

1 + 2 + 3 + 4 + 5 + 6



Min.	
30	30
10	20
10	20
5	10
20	40
10	20
20	40
105	180

7

The steps that need to be completed first

Time in minutes

Per side Per axle

Times previous steps

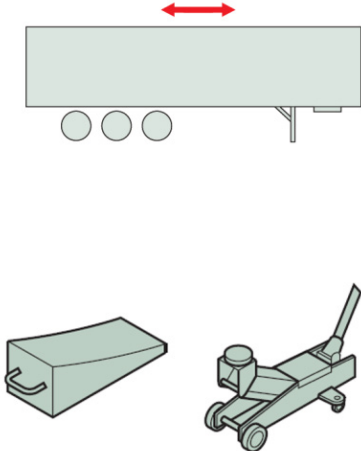
Times current step

All steps summed up together

Current step number

2. Trailer axles with disc brake

Preparation once per vehicle

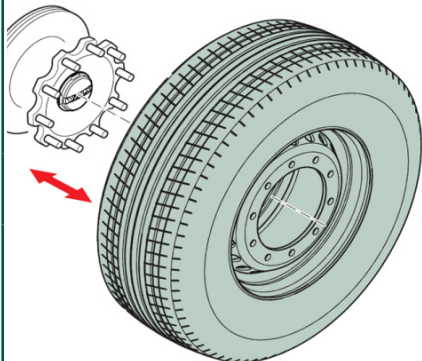


Min.	
30	

1

Wheel

1

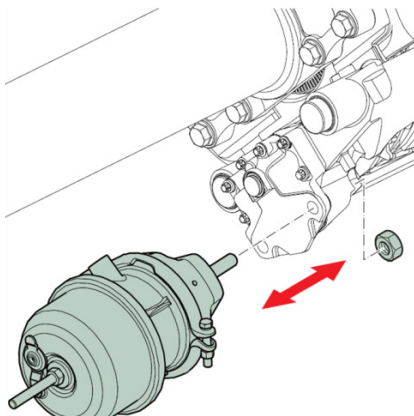


Min.	
30	30
10	20
40	50

2

Brake cylinder diaphragm

1 + 2

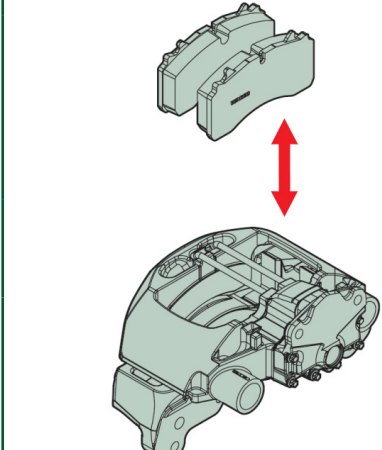


Min.	
30	30
10	20
10	20
50	70

3

Brake pads

1 + 2

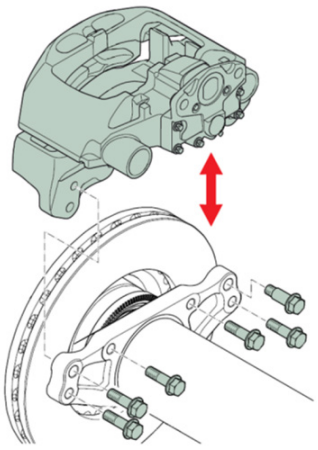


Min.	
30	30
10	20
5	10
45	60

4

Brake anchor plate and brake caliper

1 + 2 + 3 + 4

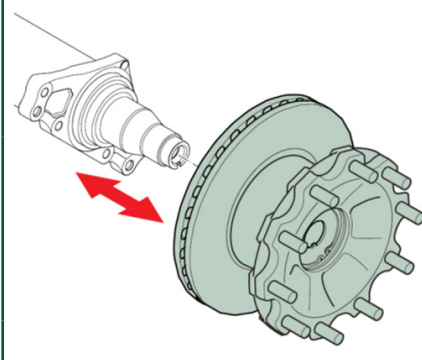


Min.	
30	30
10	20
10	20
5	10
20	40
75	120

5

Hub complete with disc

1 + 2 + 3 + 4 + 5

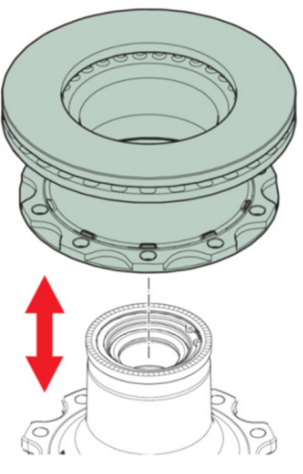


Min.	
30	30
10	20
10	20
5	10
20	40
10	20
85	140

6

Brake disc

1 + 2 + 3 + 4 + 5 + 6

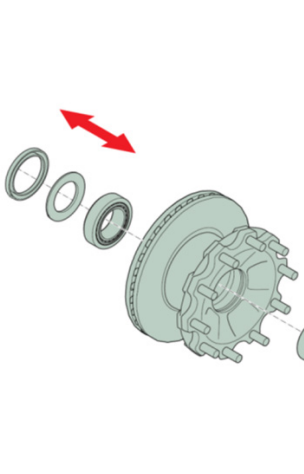


Min.	
30	30
10	20
10	20
5	10
20	40
10	20
20	40
+	
105	180

7

Outer bearing, inner bearing and seal

1 + 2 + 3 + 4 + 5 + 6

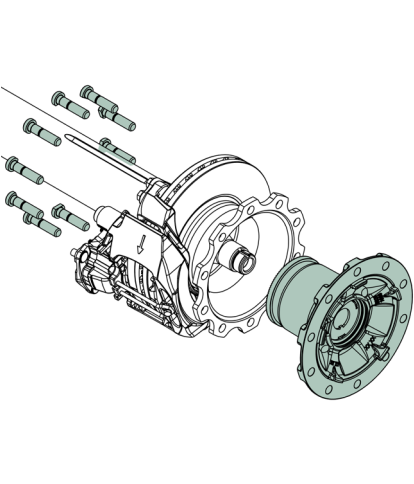


Min.	
30	30
10	20
10	20
5	10
20	40
10	20
20	40
+	
105	180

8

Hub complete without disc

1 + 2 + 7

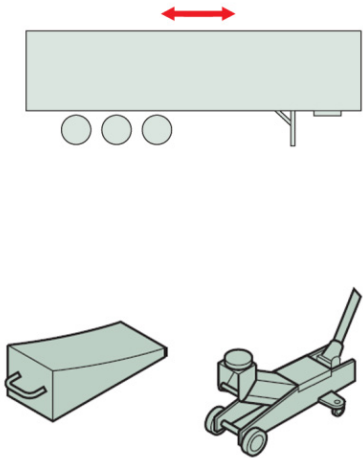



Min.	
30	30
10	20
20	40
10	20
+	
70	110

9

3. Trailer axles with drum brake

Preparation once per vehicle

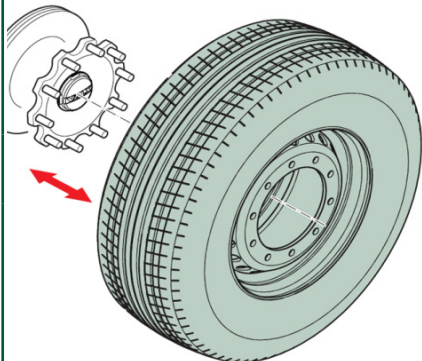




Min.
30

1

Wheel

1

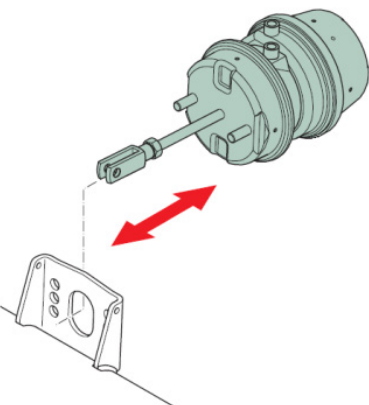




Min.
30 30
10 20 +
40 50

2

Brake cylinder diaphragm

1

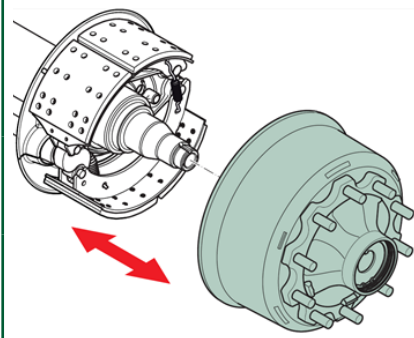




Min.
30 30
15 30 +
45 60

3

Hub complete with drum

1 + 2

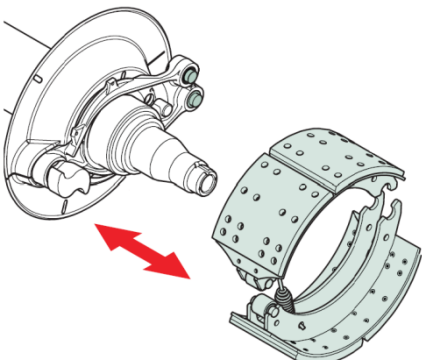




Min.
30 30
10 20
10 20 +
50 70

4

Brake shoes

1 + 4

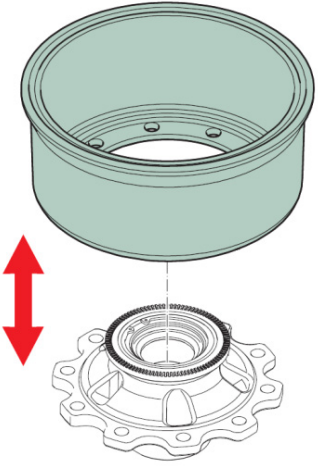




Min.
30 30
10 20
10 20 +
50 70

5

Brake drum

1 + 2 + 4

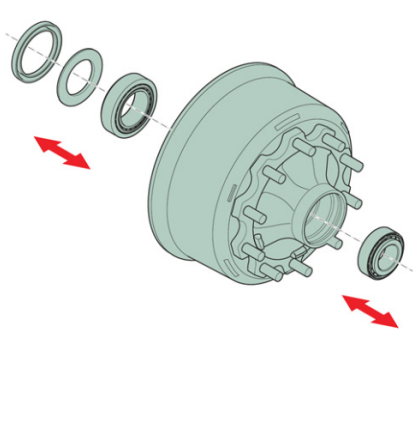



Min.
30 30
10 20
10 20
20 40 +
70 110

6

Outer bearing, inner bearing and seal

1 + 4

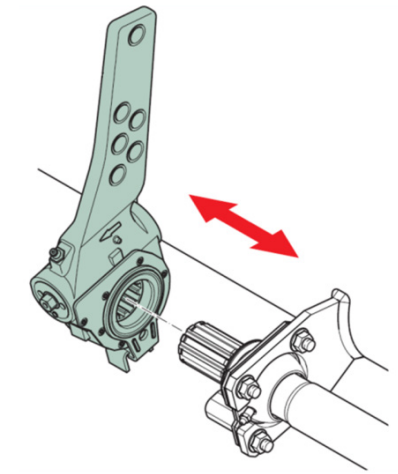


Min.	
30	30
10	20
20	40 +
60	90

7

Slack adjuster

1

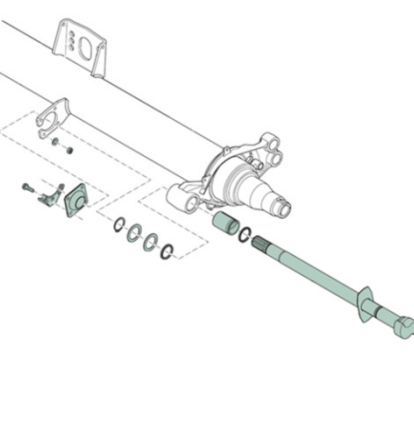


Min.	
30	30
10	20 +
40	50

8

S-cam shaft, S-cam bearing and S-cam bush

1 + 4 + 5 + 8

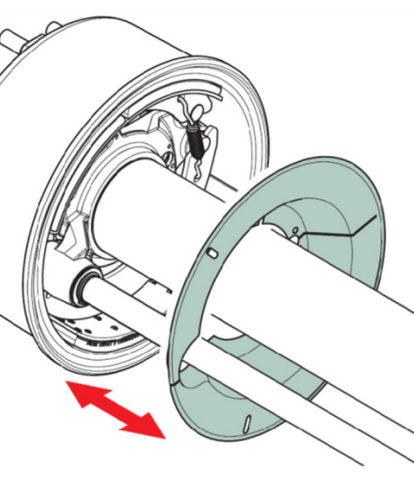


Min.	
30	30
10	20
10	20
10	20
15	30 +
75	120

9

Dust cover

1



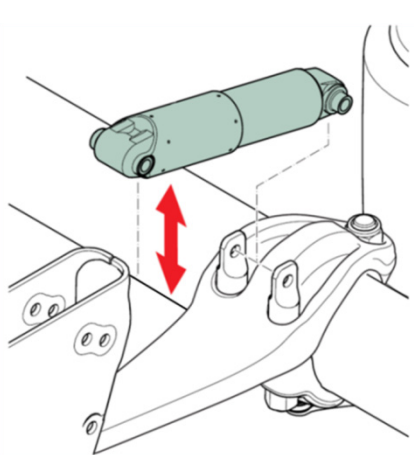
Min.	
30	30
10	20 +
40	50

10

4. Air suspension, complete axle and accessories

Shock absorber

1

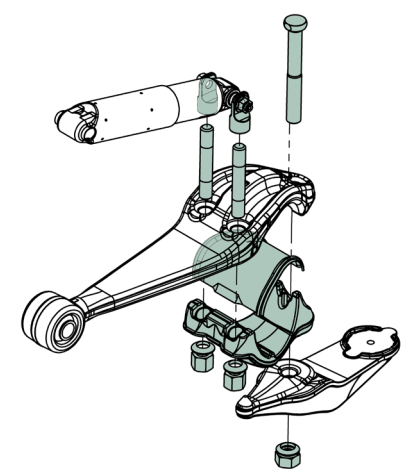


Min.	
30	30
15	30 +
45	60

11

Axle clamping (MBS)

1

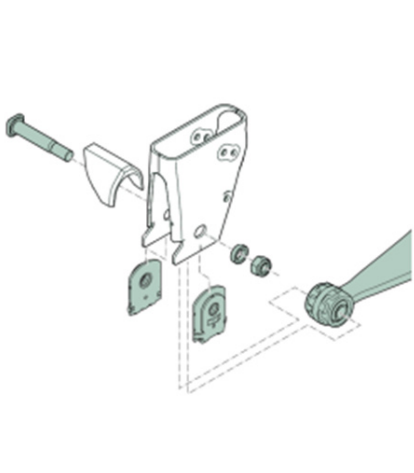


Min.	
30	30
30	60 +
60	90

12

Pivot bolt connection and wear plate

1

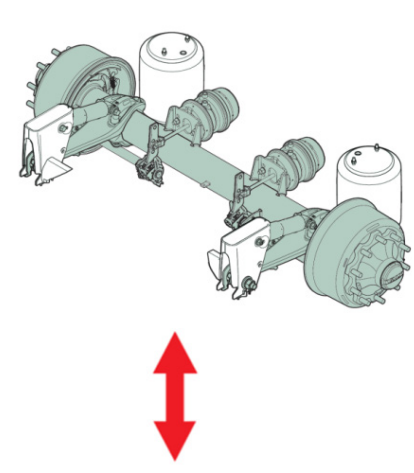


Min.	
30	30
10	20 +
40	50

13

Complete axle

1 + 2 + 3 + 13 + 15

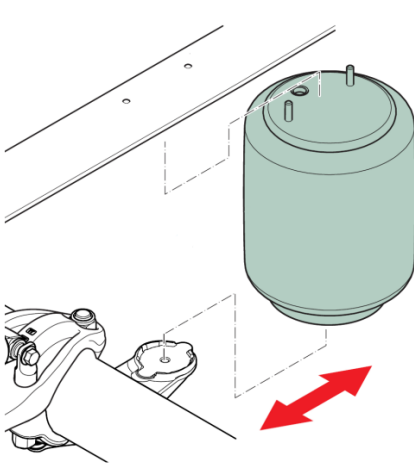


Min.	
30	
20	
20	
20	
40	
20	+
150	

14

Air spring

1

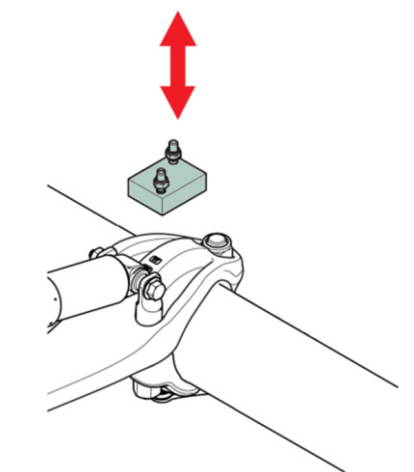


Min.	
30	30
20	40 +
50	70

15

Bump

1

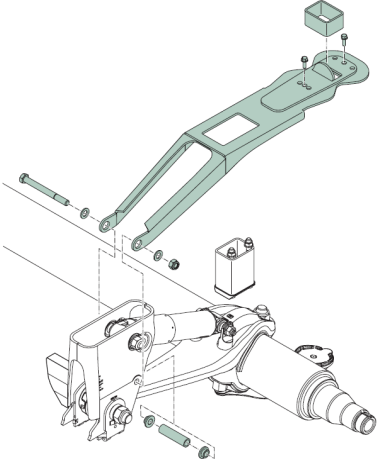


Min.	
30	30
5	10 +
35	40

16

Splitter

1

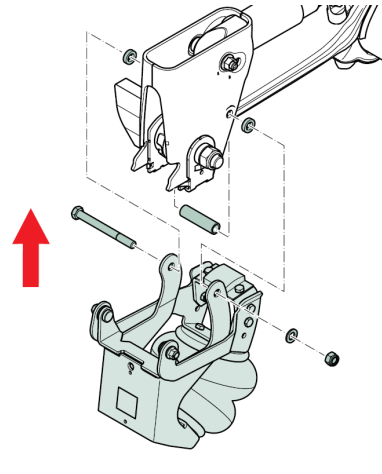


Min.	
30	30
10	20 +
40	50

17

Axle lift system

1

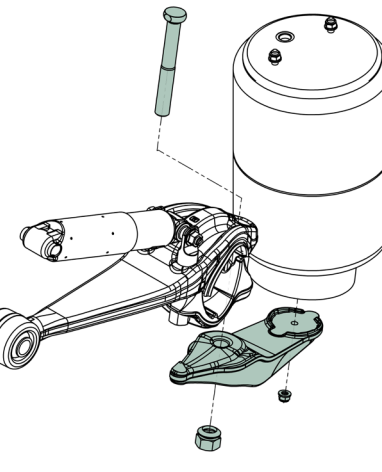


Min.	
30	30
10	20 +
40	50

18

Tail end (MBS)

1

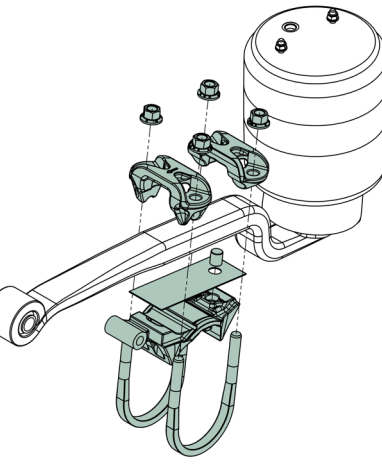


Min.	
30	30
15	30 +
45	60

19

Axle clamping (MBS V2)

1

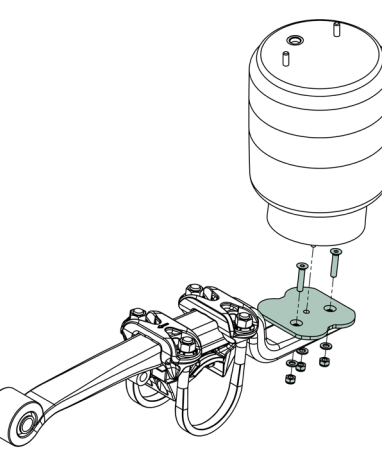


Min.	
30	30
30	60 +
60	90

20

Offset plate

1





Min.	
30	30
10	20 +
40	50

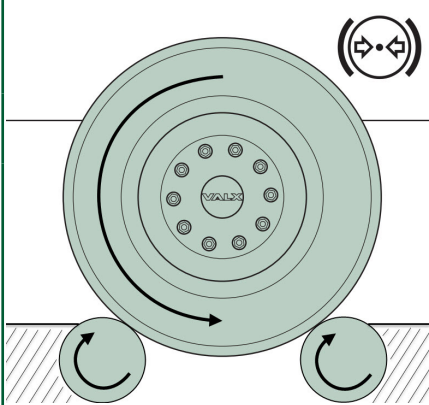

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5. Others

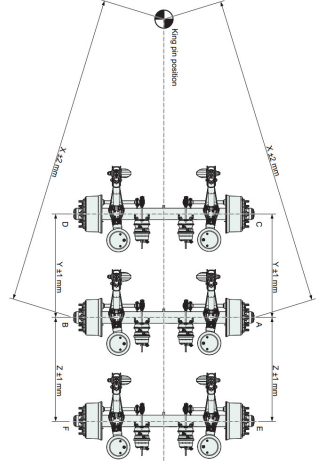

Read-out of the EBS system

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1	

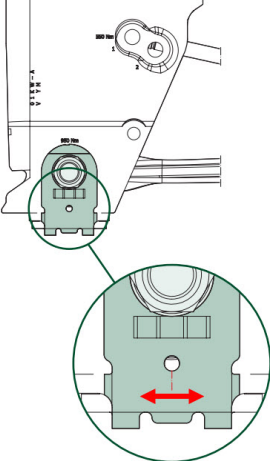

Check brake performance

	<div style="text-align: center;">  Min. 15 5 + 20 </div>
2	



Alignment axle check

	<div style="text-align: center;">  Min. 60 </div>
3	

Alignment axle correction per axle

	<div style="text-align: center;">  Min. 15 </div>
4	

Administration time

	<div style="text-align: center;">  Min. 15 </div>
5	



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