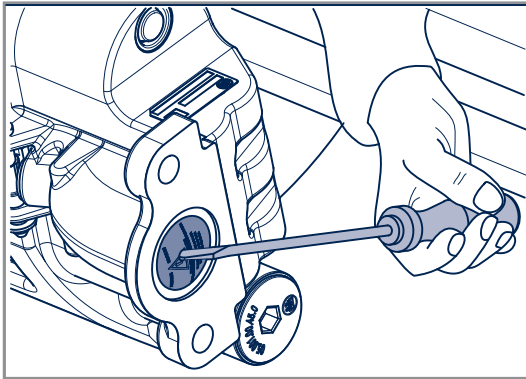




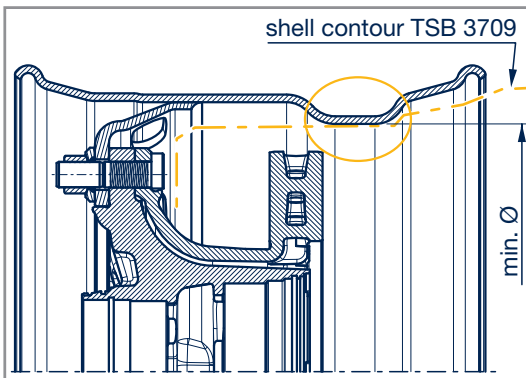
BPW Brake Components

Operating and Installation Instruction

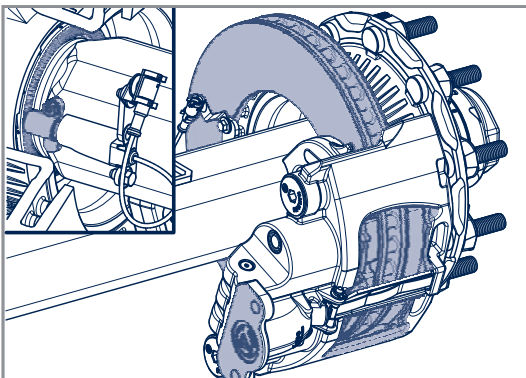
General installation instructions



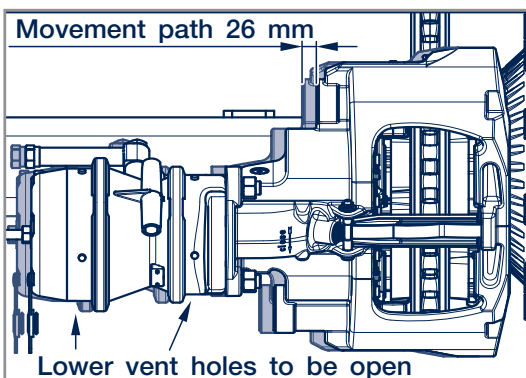
1. Before assembling the brake cylinder, remove the yellow sealing cap.
Using a thin screwdriver, pierce the plug in the middle and lift the sealing cap out of the brake caliper.
2. Specifications for assembling the brake cylinder according to the BPW Operator's Manual at bpwtranspec.com.au



3. Only use rims with valves outside the wheel face!
4. Use only rims which ensure the following minimum inner rim diameter:
 TSB 3709: min. Ø 418 mm
 TSB 4309: min. Ø 487 mm
 TSB 4312: min. Ø 490 mm

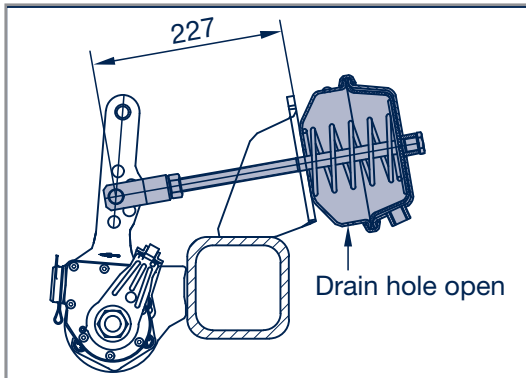


5. The following areas of the disc brake must be covered before any painting work:
 - ⊙ Brake disc,
 - ⊙ Contact surface of the exciter rings, ABS sensor,
 - ⊙ Brake pad retention clip,
 - ⊙ Contact surface of brake cylinder in the case of non-assembled brake cylinders.

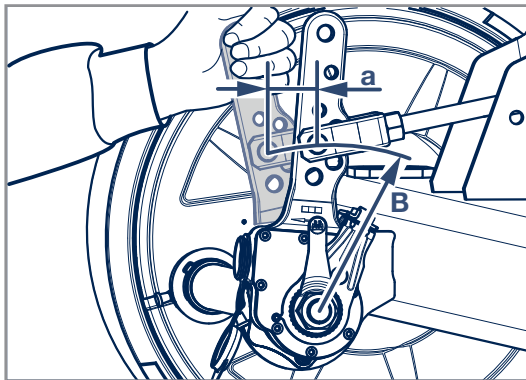


6. When disc brake axles are installed, ensure smooth movement of the floating calliper and all add-on pieces!
Depending on the wear level of the brake lining, the movement path is 26 mm to the centre of the axle.
Remove the lower vent plugs from the brake cylinder.

The tightening torques, safety instructions, care and maintenance specifications as well as information on component changing can be found in the BPW Operator's Manual at bpwtranspec.com.au



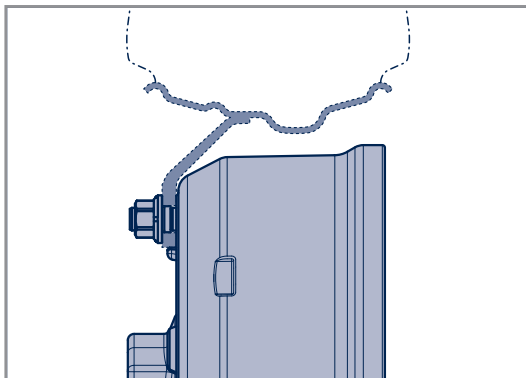
1. Assembly of BPW brake cylinder
 - ⦿ Adjust to the prescribed push rod length.
 - ⦿ Use the correct position on the base plate (comply with the details of the vehicle-specific brake calculation).
 - ⦿ Remove the drain hole plug.
 - ⦿ Tightening torques:
 - Base plate fastening nuts 180 Nm (180 - 210 Nm)
 - Lock nut of the yoke 80 Nm
2. Specifications for assembling the brake cylinder according to assembly instructions at bpwtranspec.com.au



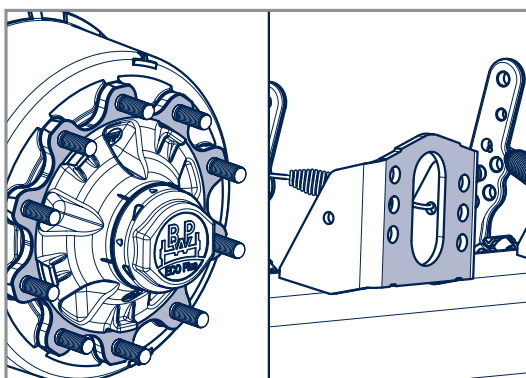
3. ECO-Master function check (Automatic Slack Adjuster)

Operate the slack adjuster by hand or with 0.8 bar. In the case, the idle stroke 'a' corresponds to 10 - 15% of the connected brake lever length 'B', e.g. brake lever length 150 mm = idle stroke 15 - 22 mm.

Check the adjustment if the idle stroke is not within tolerance.
4. Specification for assembly and adjustment of the ECO-Master according to the BPW Operator's Manual at bpwtranspec.com.au



5. Use only rims which ensure sufficient clearance to the brake drum and all installed brake components.



6. The following areas of the disc brake must be covered before any painting work:
 - ⦿ Contact surface of the brake cylinder and fastening nuts in the case of non-assembled brake cylinders.
 - ⦿ Wheel contact surfaces.

1. To maintain the performance of the brake system, we recommend regular use of the wheel brakes with an appropriate thermal input (approx. 400°C for disc brakes and 200°C for drum brakes).
2. Longer periods of vehicle non-use with the parking brake engaged may cause the linings on the brake disc or brake drum to rust.

Preventive measure:

- ⊙ Warm up the brakes before shut-down, in order to park the brakes dry,
- ⊙ Do not clean the vehicle with solvent cleaners before shut-down. This causes corrosion on shiny metal surfaces,
- ⊙ Avoid vehicle shut-down with the parking brake engaged, if necessary use wheel chocks.

Measures before recommissioning:

- ⊙ Test free running when the brake is released,
- ⊙ If the wheel is blocked, despite the brake being released, dismantle the brake linings and clean or exchange them.

3. Possible measures to prepare the brakes before use

1. Step: Greasing (with drum brakes)

2. Step: Start-up

Brake	Brake lining	Number of braking operations	Time	Starting speed	End speed	Cylinder pressure	End temperature
TSB 3709	BPW 8101	20x	1 min.	60 km/h	40 km/h	3 bar	approx. 500°C
TSB 4309	BPW 8200	20x	1 min.	60 km/h	40 km/h	3 bar	approx. 475°C
TSB 4312	BPW 8301	10x	1 min.	60 km/h	40 km/h	3 bar	approx. 400°C
SN 300	T 090	5x	1 min.	60 km/h	40 km/h	3 bar	approx. 200°C
SN 360	T 090	20x	1 min.	60 km/h	40 km/h	3 bar	approx. 300°C
SN 420	T 090	5x	1 min.	60 km/h	40 km/h	3 bar	approx. 200°C

3. Step: Clean the brake

Brake	Brake lining	Number of braking operations	Starting temperature	Starting speed	End speed	Cylinder pressure (alternating)
TSB 3709	BPW 8101	not required				
TSB 4309	BPW 8200	20x	approx. 100°C	60 km/h	40 km/h	3 bar
TSB 4312	BPW 8301	10x	approx. 100°C	60 km/h	40 km/h	2 / 4 bar
SN 300	T 090	not required				
SN 360	T 090	10x	approx. 100°C	60 km/h	40 km/h	2 / 4 bar
SN 420	T 090	10x	approx. 100°C	60 km/h	40 km/h	2 / 4 bar

4. In the case of early brake wear, carry out a trailer synchronisation.

The following are available for assembly at a later date:

- ⊙ Wear sensor (b/w) for connection to the BPW Brake Monitor or EBS:
 - Disc brake: 05.801.50.38.0 (comply with installation instructions 04.00.539017)
 - Drum brake: 05.801.50.05.0 (comply with assembly instructions 04.001.21.22.0)
- ⊙ Shaft cover for disc brakes for off-road use: 03.010.95.32.0

Victoria (Head office)

1-11 Cherry Lane,
Laverton North Vic 3026
Phone (03) 9267 2444
Fax (03) 9369 4826

New South Wales

10 Squill Place,
Arndell Park NSW 2148
Phone (02) 8811 7000
Fax (02) 8811 7050

Queensland

10 Bernoulli Street,
Darra Qld 4076
Phone (07) 3217 0877
Fax (07) 3217 0230

Western Australia

1021 Abernethy Road,
High Wycombe WA 6057
Phone (08) 9454 4000
Fax (08) 9454 4111

1300 651 652

info@bpwtranspec.com.au
bpwtranspec.com.au