

ECOPLUS 2

hub assembly

All standard 9000kg H series BPW axles and suspensions are now, and have been for some time, fitted with the ECOPlus 2 hub units. You will begin to see this new hub as the trailers attend workshops for general maintenance and MOT work. This hub is a development of its predecessor the ECOPlus hub. The bearings and seals are the same; the differences are the attachment in the hub retention device and the hub cap.



There is a new hub cap spanner available which is in the form of a flat-formed tool which is used with a mallet to remove and replace the hub cap. As well as our existing ECOPlus hub puller we have complemented this with a puller specifically designed for use with ECOPlus 2.

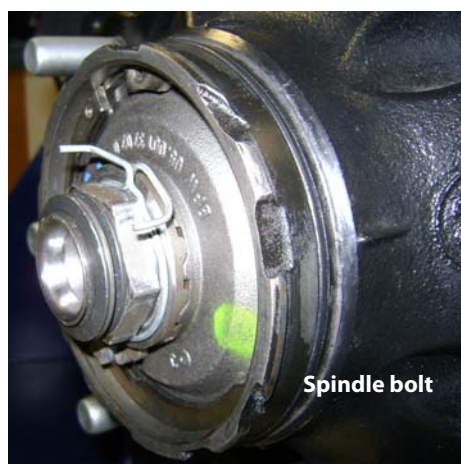


The hub cap on the ECOPlus 2 hub is secured with a bayonet type fixing which is a departure from all the preceding hub caps which were secured on large diameter threads.

There are markings on the periphery of the cap to show the engaged and disengaged position. The cap is sealed with an 'O' ring which must be replaced when damaged or flattened.

On no account must air tools be used on either the spindle nut bolt or the hub cap.

The spindle nut has been replaced with a bolt which engages with a 32mm diameter threaded hole down the centre of the spindle end. This development results in a shorter stub axle and weight saving. The hexagon socket required to remove and re-tighten this new spindle bolt is 46mm. The bolt acts in the same manner as the spindle nut on the ECOPlus axle, it slips when the bolt is tightened to the required torque setting. The bolt acts as a hub puller when removing the hub.



ECODrum Brake



THE BPW 95 DRUM BRAKE HAS HAD A FACE LIFT RECENTLY. THE MOST SIGNIFICANT CHANGES ARE TO THE PROFILE OF THE BRAKE DRUM.

With this comes a change to the profile of the dust covers. The dust covers are attached with 2 - off 8mm machined bolts at the anchor pin end and with a spring clip at the camshaft end.



There is also a change to the profiles of the web plates on the brake shoes...



...and a locating shear peg is now present between the two lining segments.

The new brake drums are suitable as replacements for the older style drums without having to replace the dust covers and the new shoes are interchangeable with the older Brake 95 ones.

NOTE:

The new lining segments can be used to re-line older style platforms, but the older style segments **WILL NOT** fit onto the new style platforms.

ECOTronic EBS



We are in the process of introducing our own EBS braking system called ECOTronic. You may begin to see

these systems fitted to new trailers over the coming months. We will



be introducing a training course for this product over the next few weeks and details will be posted on our web site. A diagnostic set, which includes

cables, interface and software will be available to companies whose delegates attend our training course.



ECODisc Brake



SOME OF YOU WILL HAVE HEARD THAT OUR NEW DISC BRAKE - ECODISC - IS NOW IN SERIAL PRODUCTION.

lighter than its competition, due mainly to direct mounting onto the axle.

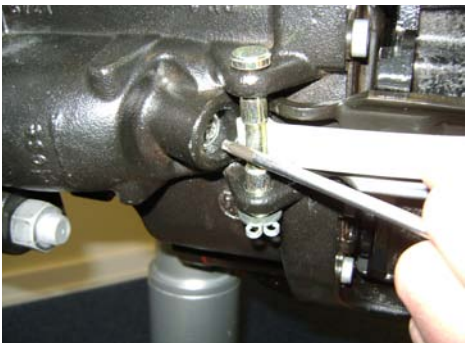
The hub assembly is ECOPlus 2, just the same as our drum braked axle, but the caliper is a completely new design and is made entirely by BPW.

As this new caliper has been designed specifically for trailer axles it offers some unique improvements in its internal design and is significantly

In due course a tool kit will be made available for servicing this new caliper, but for now all you should need is a No. T25 Torx driver to operate the adjusting mechanism.

The part number for this tool is : 02.0130.44.10

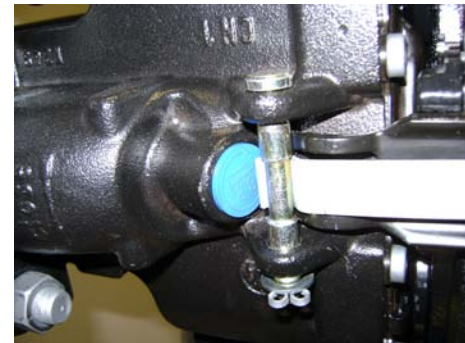
Brake Adjustment



Brake pad adjustment is easy. The brake adjuster, located at the back of the caliper beneath a cover seal, allows adjustment.

Anti-clockwise rotation closes the brake pads onto the brake disc.

Clockwise rotation** sets the initial brake clearance.



**Rotate clockwise 2 audible clicks from the closed brake position to achieve initial clearance.

Caliper Tool Kit

To repair all serviceable components on the BPW caliper a BPW ECODisc Tool Kit (Part No: 99.00.000.9.63) has been specifically designed for the job.

For further information please contact our Spare Parts Department - 0116 281 6123.





TRAINING

With the introduction of the new products many of our service providers will benefit now from re-training.

We currently offer several training courses which can be viewed on our website - www.bpw.co.uk.

Axle and Suspension Maintenance – 1 day course

This course teaches the basics of axle and suspension maintenance over 1 day with no testing or accreditation at the end. The four areas of tuition are Hub Systems, Drum Brake, Disc Brake and Air Suspension.
Course Fee - £95.00 per person

Axle and Suspension Maintenance – 2 day course

This course covers the development of axle and

suspension systems and deals with maintenance and servicing issues. The course is far more in-depth than the 1 day course. Module replacement techniques and diagnostics are covered in this course.
Course Fee - £190.00 per person

Axle and Suspension Maintenance – 2 day course with accommodation

This course is identical in content to the 2 day course outlined above but includes a 1 night stay, including evening meal and breakfast in a Travel Inn which is 400 metres from our training centre in Leicester.
Course Fee - £295 per person

An end of course test is offered on our 2-day course and a

certificate is given to successful candidates.

The test takes the form of both written and practical components. Courses can be booked by email - services@bpw.co.uk.

A pro-forma invoice will be issued which can be paid either by cheque or credit card. All places must be paid for in full before commencement of the course.

In certain circumstances training can also be carried out at customer's premises. Please contact our Customer Services Department for further information.

SPECIAL SERVICE TOOLS

On the subject of service tools we have reproduced the list of our most commonly used service tools below. These tools should be available in all BPW Service Stations and Mobile Service Vans.

ECOMAXX AXLE

Description	Part No.
Spindle Nut Socket	03.364.20.03.0
Spindle Nut Socket	03.364.24.03.0
Hub Cap Socket *	03.364.29.03.0
Hub Cap Spanner *	03.339.05.04.0
Circlip Pliers *	05.001.26.02.0

* Please note that these tools can be used for ECOMax and ECOPlus axles

ECOPLUS AXLE

Description	Part No.
Spindle Nut Socket	05.364.26.05.0
Hub Cap Socket *	03.364.29.03.0
Hub Cap Spanner *	03.339.05.04.0
Hub Puller	04.040.40.24.0
Circlip Pliers *	05.001.26.02.0

* Please note that these tools can be used for ECOMax and ECOPlus axles

ECOPLUS 2 AXLE

Description	Part No.
Spindle Nut Socket	03.364.18.02.0
Hub Cap Spanner	03.339.05.02.0
Hub Puller	09.021.403.75
Circlip Pliers *	05.001.26.02.0

* Please note that these tools can be used for ECOMax and ECOPlus axles