Lock 'n' Level®

Levelling System for twin axle touring caravans

Made in England
By
Delter Culson Ltd

www.delter-culson.co.uk



Registered Design
Patent Pending

INSTRUCTIONS FOR USE

Printed November 2014

Thank you for purchasing a Lock 'n' Level - the effortless levelling device for touring caravans. Use it once and you'll immediately see how Lock 'n' Level gives you a no-mess, no-fuss and absolutely stress-free start *every* time you pitch.

The Lock 'n' Level has been designed and manufactured by touring caravanners with over twenty years' experience, pitching on hundreds of sites in the U.K. and Europe. We knew the need for a system that was light and portable, yet was quick and easy to use, and we couldn't find one. So we produced Lock 'n' Level: the only system of its kind that turns a back-breaking and messy chore into a doddle.

In fact, we know the frustrations and effort of levelling *and* locking both wheels on the same side mean that many twin-axle caravanners simply don't bother to lock both - *and are potentially uninsured against caravan theft.*

Important

Your Lock 'n' Level is suitable for use on all caravan and camping site surfaces, including hard standings. It is also suitable for most other terrain; provided the surface is firm enough with no sharp objects.

- Ensure there are no sharp objects under the device which could puncture it. If necessary, place a protective mat underneath, such as a piece of rubber mat, etc.
- Always ensure the handbrake is on or the wheel lock fitted before inflating the Lock 'n' Level.
- When inflating the device, NEVER exceed 30 psi (2.0 bar) pressure.
- ALWAYS keep your face clear of the airflow when deflating your Lock 'n' Level.
- Avoid running over the valve assembly.
- Keep the valve assembly clean.
- Do not expose the Lock 'n' Level to oil, solvents, excessive heat or naked flame.
- The bolts on your Lock 'n' Level have been set to the correct tightness. Do not attempt to disassemble.

the silver cap on the left hand air bag. Retighten the cap after deflation is complete and finally tighten the wheel nuts.

NB Your Lock 'n' Level should lift the caravan high enough to remove a wheel at normal air pressure. Do not exceed 30 psi (2.0 bar).

Warranty terms and conditions.

Your Lock 'n' Level is warranted against manufacturing defects in material or workmanship for a period of 12 months from the date of sale. The warranty is limited to the repair or replacement of the supplied product only. These conditions are additional to and do not affect your statutory rights.

Should you be unfortunate enough to suffer a warrantable defect please contact us on www.delter-culson.co.uk ensuring that you have your sales invoice available to verify the purchase date. Return carriage charges within the UK mainland only, will be reimbursed upon confirmation of a warrantable defect.

Damages resulting from external influences are excluded from any warranty offered.

Examples of non warrantable damage include, but are not limited to:-

- Puncture, chemical or solvent damage, failure of the unit due to the deliberate loosening of bolts and fittings, Damage resulting from running over the valve, leaking 'Schrader' valve cores, loss of valve caps.

Once the wheel has been replaced and wheel nuts initially tightened, open the balance valve and loosen the silver cap on the left hand air bag. Retighten the cap after deflation is complete and finally tighten the wheel nuts.

To change offside front wheel

Roll the caravan onto the Lock 'n' Level so that the rear wheel sits on the front half of the device (nearest the front of the caravan), with the front wheel on the ground.
Loosen the wheel nuts on the front wheel.
Ensure the balance valve is in the closed position.
Inflate the Lock 'n' Level, which will lift the front wheel clear of the ground, allowing you to remove it.

Once the wheel has been replaced and wheel nuts initially tightened, open the balance valve and loosen the silver cap on the left hand air bag. Retighten the cap after deflation is complete and finally tighten the wheel nuts.

To change offside rear wheel

Roll the caravan onto the Lock 'n' Level in the normal way.
Loosen the rear wheel nuts. Inflate the Lock 'n' Level, which will lift the rear wheel clear and enable you to remove it.

Once the wheel has been replaced and wheel nuts initially tightened, open the balance valve and loosen

- Do not twist or turn the inflation valves against the body of the Lock 'n' Level.

- Always remove moisture, mud and grit from your Lock 'n' Level before storing it in its bag.

- Never fold too close to the valves when storing. See page 9 for the correct way to fold your Lock 'n' Level.

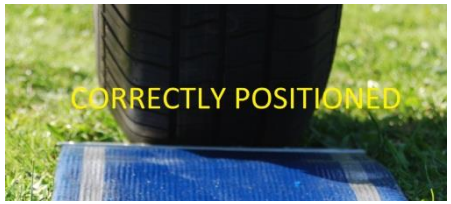
NEVER REACH UNDER ANY CARAVAN THAT IS SUPPORTED ONLY BY THE LOCK 'N' LEVEL.

Instructions for use.

Setting up

Move the caravan onto your chosen pitch and stop when the rear wheel is in the correct position to fit the rear 'through the wheel' lock.
You will not fit the lock yet, but this will ensure that you are in the correct position to do so.
Lay the Lock 'n' Level on the ground alongside the wheels with the central divider level with the centre of the gap between the two wheels with the valves toward you.

Roll the caravan forward until you can slide the Lock 'n' Level inwards to a position immediately behind the rear tyre. Make sure that:
The front edge is touching the tyre tread. The tyre tread is lined up with the centre of the Lock 'n' Level.



The Lock 'n' Level is straight, fore-and-aft
(see photo above).

Reverse the caravan over the Lock 'n' Level, stopping in its original position (with the central divider between the

To use as a jack

CAUTION.

Always ensure the caravan cannot move once lifted on the Lock 'n' Level. Use the handbrake, wheel lock or other means to prevent vehicle movement.

To change nearside front wheel

Roll the caravan onto the Lock 'n' Level in the normal way. Loosen the wheel nuts on the front wheel.

Ensure the balance valve is in the closed position.
Inflate the Lock 'n' Level, which will lift the front wheel clear and enable you to remove it.

Once the wheel has been replaced and wheel nuts initially tightened, open the balance valve and loosen the silver cap on the left hand side. Retighten the cap after deflation is complete and finally tighten the wheel nuts.

To change nearside rear wheel

Roll the caravan onto the Lock 'n' Level so that the front wheel sits on the back half of the device. Loosen the rear wheel nuts. Ensure the balance valve is in the closed position.

Inflate the Lock 'n' Level, which will lift the rear wheel clear of the ground, allowing you to remove it.

To fold your Lock 'n' Level, lay flat and fold the right hand side in an 'S' shape as per photo.

'Mirror' the same shape on the left hand side,
then fold in half. Make sure that the balance tube is not creased. (See the lower picture.)







wheels and one wheel on the centre of each section, making sure that the tyre tread is central along the length of the Lock 'n' Level) and again in the correct position for fitting the rear 'through the wheel' lock.
Fit the rear wheel lock.

If your caravan is still coupled to the tow-car, it should be un-hitched before proceeding further.
Ensure that the yellow automatic balance valve is in the closed position and attach your tyre pump to the inflation valve on the right (Black cap).



ALWAYS inflate your Lock 'n' Level from the right hand valve. (Black cap)
Start to inflate the Lock 'n' Level, noting that only the segment under the locked wheel will inflate at this stage. Continue inflation until the caravan has lifted high enough to allow you to rotate the unlocked front wheel. This will normally happen when approx 18-30 psi (1.5 – 2.0 bar) pressure is reached.
NEVER EXCEED 30 psi (2.0 bar).



You can now fit the second 'through-the-wheel' lock.

With both wheels locked, turn the yellow automatic balance valve to the open position. Air will then transfer from the rear section to the front, until the pressure is equal in both.



Place your spirit level across the caravan or trailer floor (or worktop) in the normal way.

You may need to pump more air in to raise the caravan to achieve a level (right hand side) or, you may need to let air out to lower it (silver cap, left hand side).

You have now achieved both locking and lateral levelling - a process that with practice should normally take about six minutes.

Close the balance valve, detach the pump and replace the dust caps on the valves.
Continue your set-up in the normal way, by using the spirit level and jockey wheel to level the vehicle fore & aft. Finally lower the corner steadies

To lower your caravan.

Before proceeding ensure that there are no obstacles under the caravan or trailer which might prevent the vehicle settling safely to the ground.

Ensure the balance valve is in the open position.

VERY IMPORTANT! Raise the steadies or other supports. Remove one of the two wheel locks before deflating the device.

Deflate the Lock 'n' Level from the left-hand side, by simply loosening the silver cap on the longer valve a couple of turns (no need to remove it) , *keeping your face clear.* The caravan will settle gently back to ground level.

Be sure to retighten the cap onto the valve, to a moderate 'finger tightness'. Remove the remaining through-the-wheel lock and drive the caravan off the Lock 'n' Level.

If necessary, clean and dry the Lock 'n' Level before placing it in its storage bag.