



LASE-ALIGN CALIBRATION

Securely fix a short piece of new rail to the floor or fixed bench parallel to and 1435mm away from a vertical face such as a wall.



Make a vertical permanent mark or cut on the side of the rail head which is facing the wall at its centre.



Place Lase-Align on rail, aligning the notch with the mark on the rail head and switch on the laser pointing towards the wall.

Fix the self-adhesive target supplied to the wall with the red dot positioned exactly on the centre cross of the target.

Before use, the gauge can be checked for accuracy on the calibration rail. Check fixed laser to ensure that it is within the required field of accuracy.

PART NUMBERS

Lase-Align Kit	039/127033
Lase-Align	039/127030
Small Target	039/127031
Large Target	039/127032

SAFETY

- NEVER** look directly at the laser beam
- NEVER** shine the laser at anything other than the rail faces and particularly not towards another person.
- NEVER** point the laser towards oncoming trains or vehicles as the light can obscure the drivers vision.
- ALWAYS** switch off the lasers when not in use
- ALWAYS** return the gauge to its protective case when not in use



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USER INSTRUCTIONS FOR LASE-ALIGN RAIL ALIGNMENT GAUGE

APPLICATIONS

Switch tip alignment

Place Lase-Align onto rail head aligning the relevant datum line (90mm or 255mm) with bearer one (toe) stock rail bolt. The integral magnets will hold the Lase-Align in place against the field stock rail face.

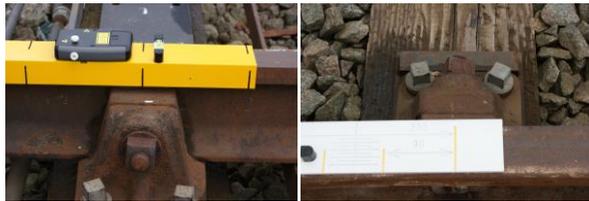
Switch on the laser.

Place Small Target on opposing rail with the relevant datum line with bearer one (toe) stock rail bolt.

Adjust Lase-Align on rail head until red laser dot shows on the opposing Small Target indicating the point exactly opposite.

Correct positioning of Drill holes

Fix Lase Align Unit over first hole centre line. Turn on laser and the red dot will indicate exactly where on the opposite rail hole should be drilled. Mark rail accordingly.



Adjustment of Switches

Place Lase-Align on track with the datum in line with adjustment switch tip.

Place Small Target over opposite switch tip.



APPLICATIONS

Crossing Nose Alignment

Measure nose to nose measurement from the switching in accordance with NR/L2/TRK/2049 and mark the rail head. Place Lase-Align on rail head with laser directly over the mark.

Place Small Target in flange way of adjacent crossing with the centre mark directly in line behind the nose.

The dot should be on the centreline of the Small Target.



Rail Dip Measurement

Select the two datum points and place the Lase Align on first high point, use Large Target on the next high point, adjust the dot using one of the adjusting screws to position it on lowest line of Large Target, on the vertical centre line. Ensure Lase-Align base and target are both horizontal using levels fitted.

Move the Large Target towards the Lase-Align and keep it level. The dot on target will show the low points relative to datum line.

The Small Target will perform the same function as the Large Target if preferred.

