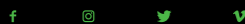


UNION

TC RC GC

hope



CLEAT TYPES

001_ There are two types of cleats included with your Union pedals. These give different characteristics to suit different riding styles and personal preference.

No. 4 Cleat: 4° Float, 12° Release Angle, low release effort
No. 5 Cleat: 5° Float, 13° Release Angle, increased release effort

CLEAT SHIMMING GAUGE

Correct cleat shimming is necessary for optimal contact between the shoe sole and pedal platform. Under shimming will make engagement and disengagement to the pedal difficult or impossible, over shimming will lift the shoe sole away from the pedal reducing stability.

002_ Use the shimming gauge to determine the drop from the cleat mounting face to the sole base at the position your cleats will be mounted.

NOTE: This measurement varies between shoe manufacturers and even between shoe models, if cleats are swapped between shoes the cleat shimming should be re-checked and adjusted for that specific shoe.

003_ Cut out the cleat shimming gauge along the dotted lines then, placing the gauge over the cleat mounting area, determine the closest match on the gauge. The ideal fit is where both parts of the gauge contact the shoe sole and cleat mounting face respectively.

Less than 6,75mm - No Shim required
 (Foot plates or pins can be used to provide additional stability if required, see section 5)
 6.75 - 7.25mm - No Shim
 7.25 - 7.75mm - 0.5mm Shim
 7.75 - 8.25mm - 1mm Shim

CLEAT INSTALLATION

004_ Install cleats to the shoe as shown in the diagram using the necessary shim plates determined in the previous step. Tighten the cleat bolts lightly at first to enable the position to be adjusted if required (see step 4). Once the correct cleat position is determined fully tighten the bolts to **6 N.m**

CLEAT ADJUSTMENT

005_ Cleat position can be adjusted fore/aft/left/right and angled for toe in/out to suit personal preference.

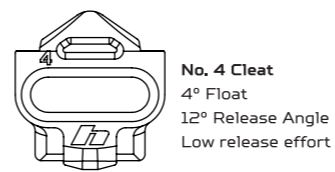
PEDALS

006_ Install Pedal Pins (*TC and GC Pedals)

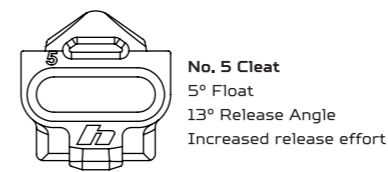
Using pins will increase foot stability while clipped in and provide traction if not clipped in. The TC pedal can be set-up with upto four pins per side, two at the front and two at the rear. The GC pedal can be set-up with upto seven pins per side, four at the rear and three at the front. Using a 2mm hex, screw pins into some or all of the locations shown as desired. Recommended tightening torque **4 N.m**

007_ Pin height can adjusted if necessary using the supplied washers under the pin.

001

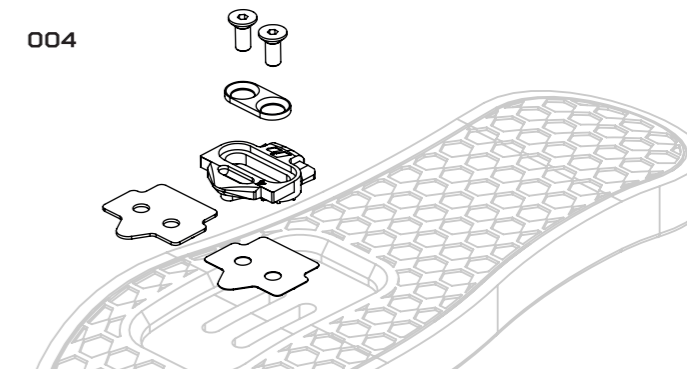


No. 4 Cleat
 4° Float
 12° Release Angle
 Low release effort

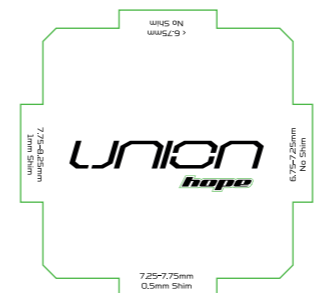


No. 5 Cleat
 5° Float
 13° Release Angle
 Increased release effort

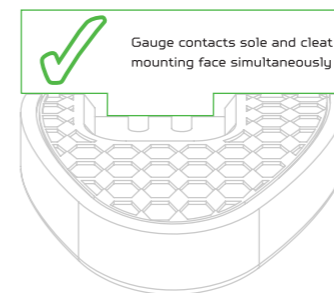
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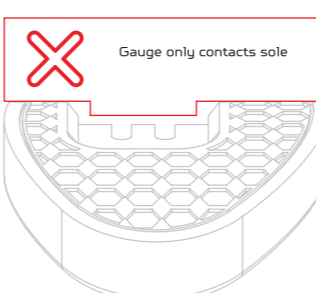
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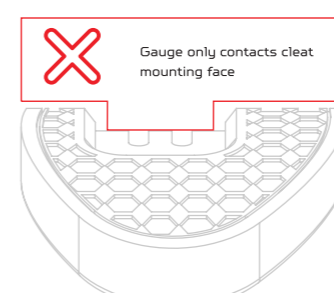
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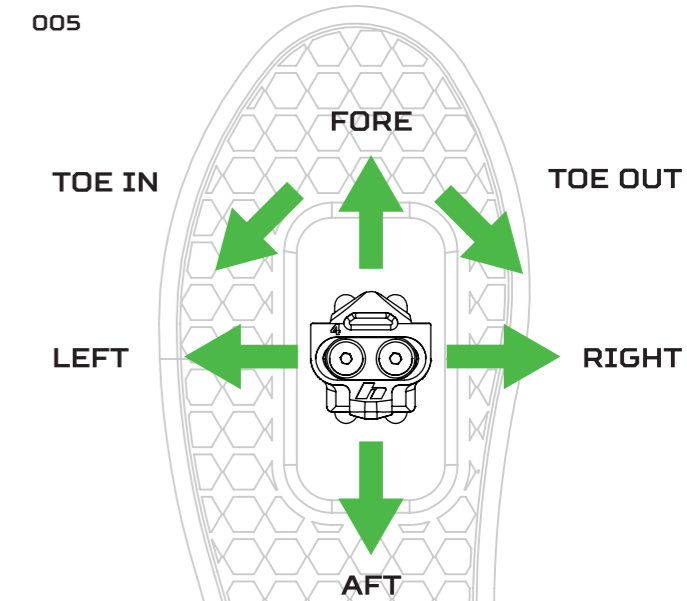
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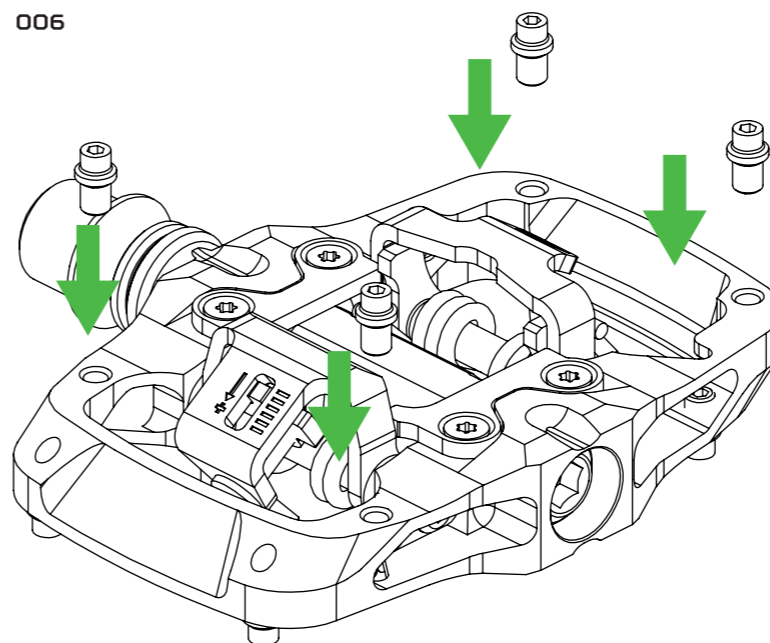
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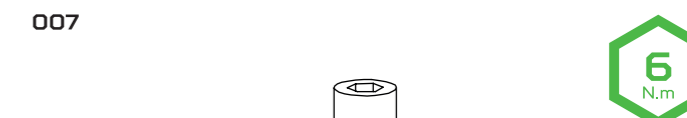
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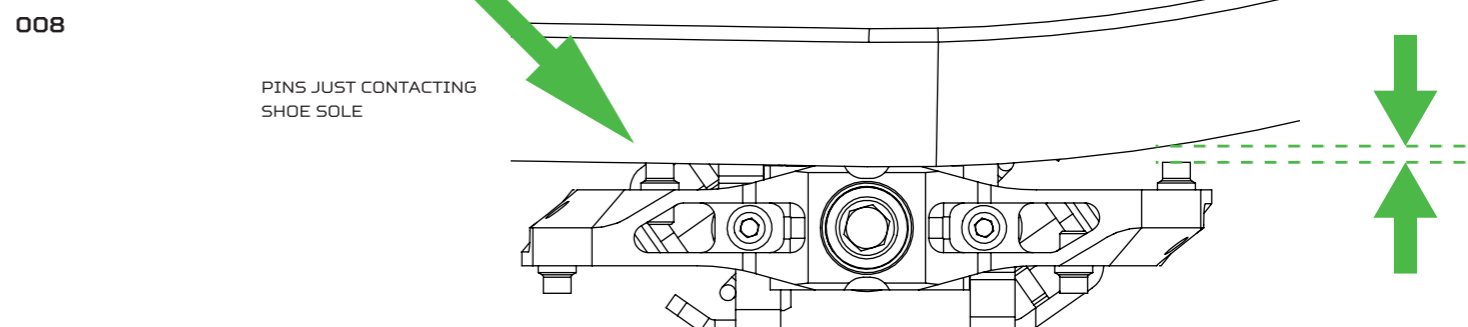
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007



008



CAUTION: READ THIS BEFORE INSTALLING YOUR PEDALS!

Riding bicycles can be dangerous. These instructions should be read thoroughly before installation. Failure to follow these instructions before installing and using Hope Technology Components can result in severe injury or death.

BOX CONTENTS

- 1 x RH Pedal Assembly • 1 x LH Pedal Assembly • 2 x No. 4 Cleats
- 2 x No. 5 Cleats • 2 x 0.5mm Cleat Shims • 2 x 1mm Cleat Shims
- 4 x Cleat Screws • 2 x Cleat Bolt Plates • 1 x Bag of Pedal Pins (No pins in RC Pedals)
- 1 x Bag of Pin Adjustment Spacers *TC and GC Pedals
- 8 x Foot Plates *GC Pedals Only • 8 x Foot Plates Adjustment Shims *GC Pedals Only • 28 x Foot Plate Securing Screws *GC Pedals Only

TOOLS REQUIRED

- 2mm Hex • 3mm Hex • 8mm Hex • T10 Torx • T25 Torx

HOPE WARRANTY

All Hope Technology Components are covered for two years from original date of purchase against manufacturer defects in material and workmanship. Proof of purchase is required. Product must be returned to the original retailer to process any warranty claim. This warranty does not cover any damage caused through mis-use or failing to comply by the recommendations given in this manual. This warranty does not affect your statutory rights.

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HOPETECH.COM

008_ Adjust rear pin height so the pins contact the shoe sole. Adjust front pin height so there is minimum of 2mm clearance to the shoe sole.

- If clearance is limited at the front of the pedal, (either due to flat profile shoes or pins adjusted up high), you may experience a double click sensation on engagement. This just means the mechanism is getting towards the minimum angle at which it can accept the cleat, it can be left like this or pins can be lowered or removed at the front of the pedal to increase clearance.
- If pin height is set too high at the rear of the pedal it will become very difficult to disengage from the pedal as the pins will dig into the sole of the shoe and prevent the heel being moved outwards. In this case lower the pin height.
- Effort required to engage into/disengage from the pedal is a combination of pin height and mechanism spring tension, see Adjust Cleat Holding Force section. Generally higher pins will mean less spring tension is required for a given release effort and vice versa. Any change to pin height may need a corresponding adjustment to the spring tension.

FOOT PLATES INSTALLATION (GC Pedal only)

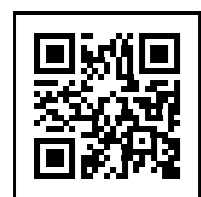
The GC pedal can be set-up with the supplied foot plates instead of pins. Foot plates increase the surface contact between the shoe and pedal, increasing stability. The horizontal grooves in the plates provide traction while also allowing the shoe to rotate sideways easily for easy disengagement.

009_ Using a T10 Torx driver fit the plates using the foot plate screws. Recommended tightening torque **4 N.m**.

PEDAL INSTALLATION

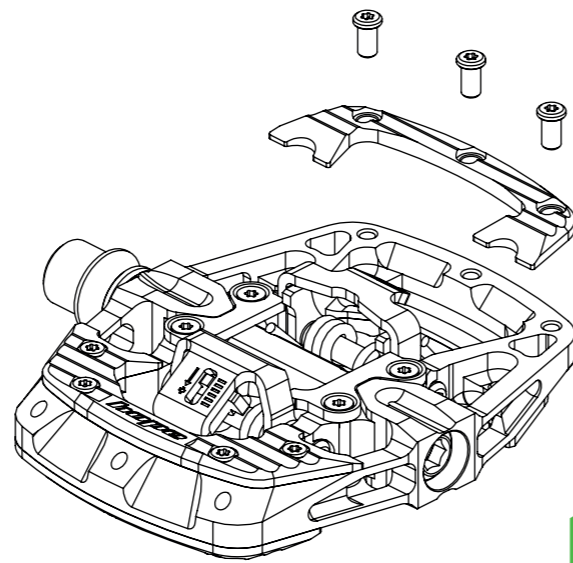
010_ Identify RH and LH pedals by looking for the mark on the inside face of the pedal body as shown. Check that the crank arm threads are clean and free of any burrs or damage. Lightly grease the pedal threads and screw them into the crank arms, initially by hand to prevent cross threading.

011_ The **LH pedal** tightens **anti-clockwise** and the **RH pedal** tightens **clockwise**. Fully tighten the pedal axles using an 8mm hex. Recommended tightening torque **35-40 N.m**



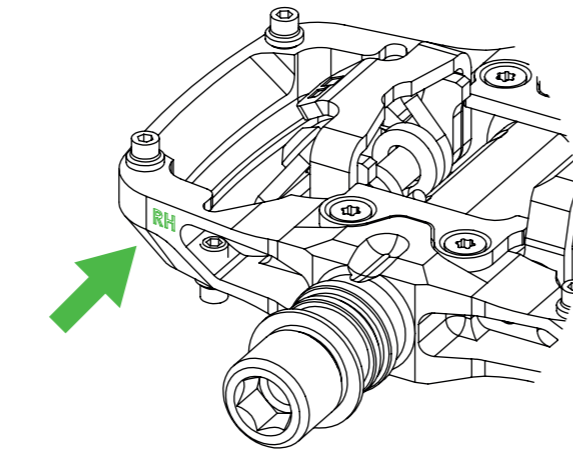
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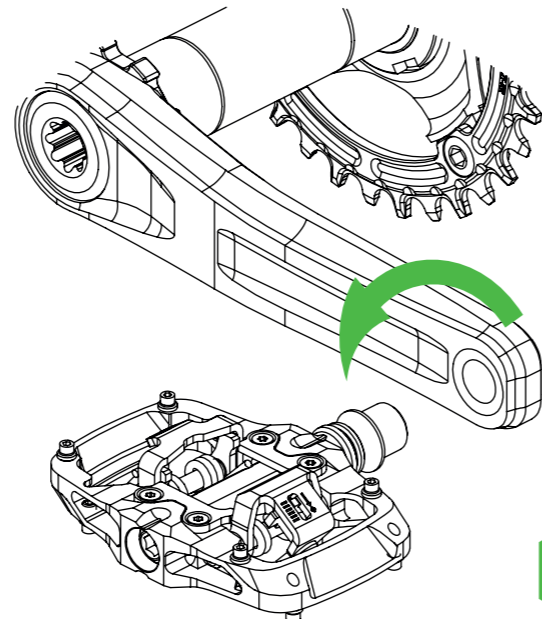
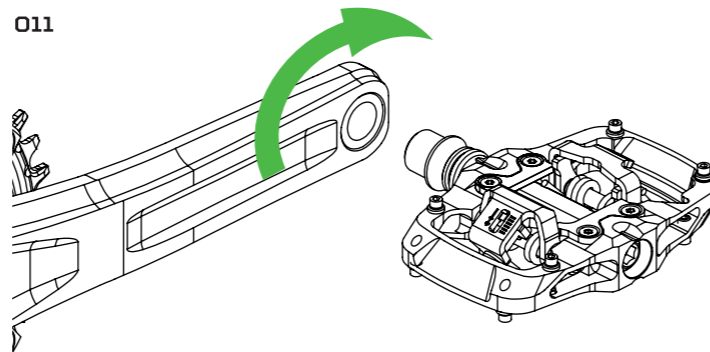


4
N.m

010



011



40
N.m

ADJUST CLEAT HOLDING FORCE

The spring tension of the pedal mechanism can be adjusted to increase or decrease the effort required to engage and disengage with the pedal.

012_ The adjustment is made by turning the adjusting screw on the rear clip of the mechanism using a 3mm hex, there is an adjustment screw for each side of the pedal so four screws need to be adjusted in total, all screws should be adjusted equally using the gauges on the pedal.

013_ Turning the screw clockwise will **increase** the holding force, turning anti-clockwise will reduce the holding force.

NOTE: It is good practice to start with the adjustment set to the minimum level and then add tension as required.

OPERATION

014_ENGAGEMENT

- Hope clipless pedals are designed to give a wide range of engagement angle. The front clip rotates out of the way enabling a very shallow engagement angle.
- The best way to engage the cleat into the pedal is with a combined forward and downward motion of the foot.

015_DISENGAGEMENT

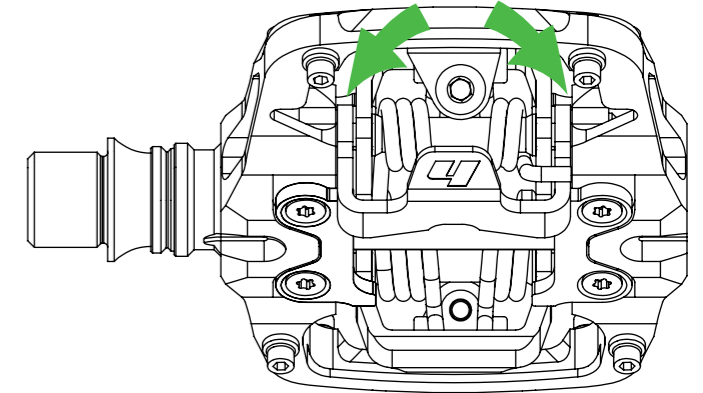
- Rotate your heel outwards, away from the bike to release the cleat from the mechanism. The cleat will also release if your heel is turned inwards towards the bike if there is sufficient clearance.

MAINTENANCE

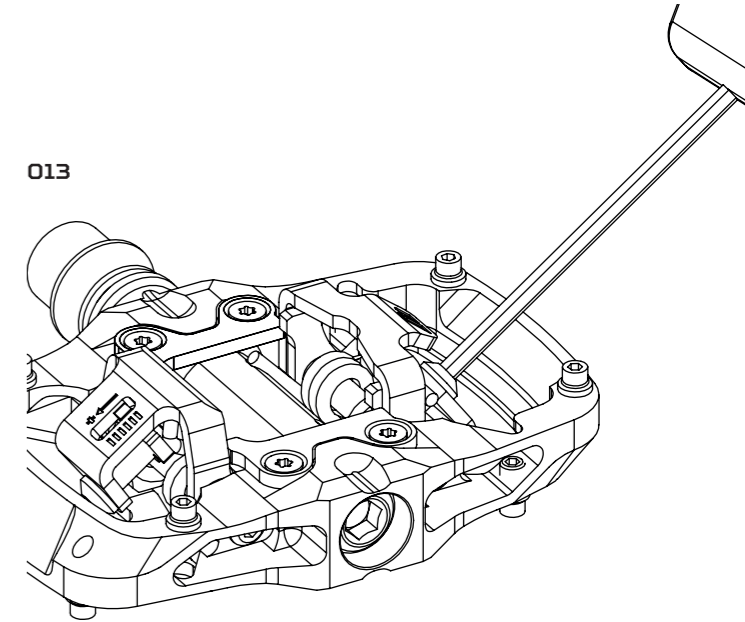
- Carefully inspect the pedal before each ride for any sign of damage. If any doubt do not ride the pedals and contact Hope Technology.
- Keeping your pedals clean and lubricated will help prolong the life of your pedals. Avoid direct pressure washing.
- Lubricate the mechanism around the pivots with light oil periodically.
- To lubricate the bush and bearings we recommend using lithium grease (with **no PTFE**). The Norglide bush is self lubricating but a very small amount of grease is added when assembled in the factory, they shouldn't need any further attention. The ball bearings can be lubricated by removing the pedal end screw using a 6mm hex. Fill up with grease and re install the end screw.
- Cleats are designed to wear quicker than the pedal clips. Life span will depend on the amount of use and conditions the pedals are used in, replace the cleats when they require much less effort to release from the pedal mechanism.
- If needed, all parts are available as spares through your Hope dealer. Look at the pedal exploded view on our website to identify the part numbers.

012

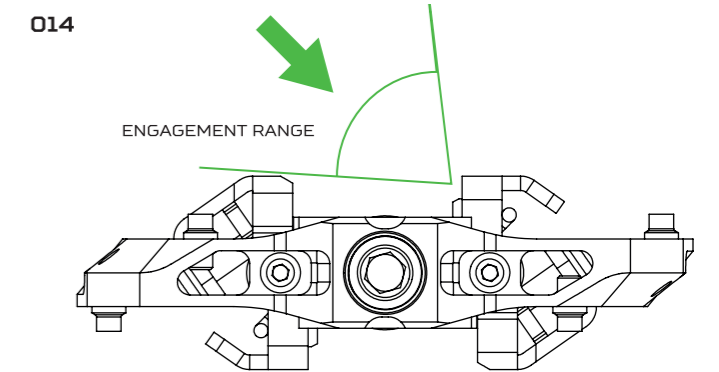
REDUCE INCREASE



013



014



015

