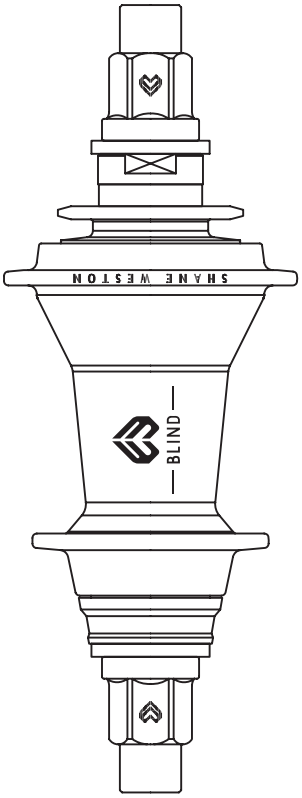
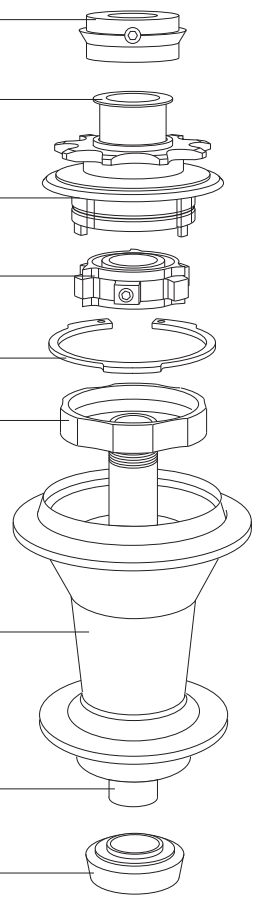
BLIND HUB INSTALLATION INSTRUCTIONS

17mm Spanner/ Socket
6mm Allen Key
2mm Allen Key
24mm Spanner/Cone wrench
Circlip Pliers



NOTE: For converting to cassette mode, a cassette driver is required, this is an optional part and not included as standard with the Blind hub

01 FREECOASTER ASSEMBLY (fig. 1)



CONE (DRIVE SIDE)
Removal: Loosen 2mm grub screw and unthread from axle with 24mm wrench

BUSHING SLEEVE
Removal: Pull the sleeve from driver. Must be assembled as shown

CASSETTE DRIVER
Removal: To remove pull the driver from the hub shell

CLUTCH DISK
Removal: Simply slides off axle.
(for adjusment notes see page 4)

CIRCLIP
Remove using circlip pliers

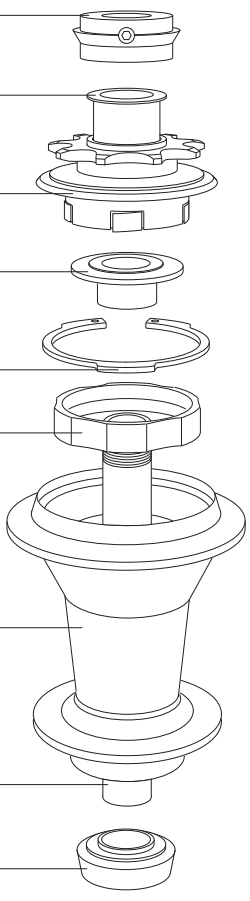
RATCHET RING
Removal: Circlip must be removed then knock the drive side axle on hard surface until the ratchet ring drops out

HUB BODY

AXLE
Removal: Disassemble hub and pull from hub shell

CONE
Removal: Pull from axle

02 CASSETTE ASSEMBLY (fig. 2)



CONE (DRIVE SIDE)
Removal: Loosen 2mm grub screw and unthread from axle with 24mm wrench

BUSHING SLEEVE
Removal: Pull the sleeve from driver. Must be assembled as shown

CASSETTE DRIVER
Removal: Pull the driver from the hub shell

SPACER
Removal: Slide from axle. Spacer must be orientated as shown

CIRCLIP
Remove using circlip pliers

RATCHET RING
Removal: Circlip must be removed then knock the drive side axle on hard surface until the ratchet ring drops out

HUB BODY

AXLE
Removal: Disassemble hub and pull from hub shell

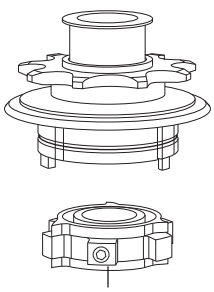
CONE
Removal: Pull from axle

03 FREECOASTER TO CASSETTE MODE

To switch the hub from freecoaster to cassette follow these simple steps.

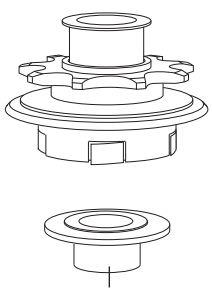
1. Remove the axle bolt from the drive side.
2. Remove the drive side cone nut. Remember to loosen the 2mm grub screw in the cone nut then loosen with 24mm spanner (make use of the 6mm allen bolt inside the axle to hold the axle still)
3. Remove the Driver.
4. Remove the clutch disk.
5. Replace the freecoaster ratchet ring for the cassette ratchet ring (see page 7 for guidance)
6. In place of the clutch disk insert the spacer provided
7. Remove the bushing sleeve from the freecoaster driver and place it in the cassette driver. This must be assembled as illustrated below.
8. Replace the freecoaster driver with the cassette driver. To switch the driver from RSD to LSD see page 4.
9. Fasten the cone back onto the axle and tighten the grub screw.
10. Reinstall the axle bolt.

Freecoaster Assembly



Clutch Disk

Cassette Assembly



Spacer

04 SWITCHING DRIVE SIDE

Freecoaster Driver
(note: the freecoaster driver will come pre-assembled as RSD)

To switch the freecoaster assembly from RSD to LSD you will have to alter the following parts:

Driver: Switch pawls (see page 6)
Clutch Disk: Flip 180 degrees (see page 5)
Ratchet Ring: Flip 180 degrees (see page 7)

Cassette Driver

To switch the casette assembly from RSD to LSD you will have to alter the following parts:

Driver: Switch pawls (see page 6)
Ratchet Ring: Flip 180 degrees (see page 7)

Step by step

1. Remove the axle bolt from the drive side.
2. Remove the Cone nut from the drive side. Firstly loosen the 2mm grub screw in the cone nut then loosen with 24mm spanner (make use of the 6mm allen bolt inside the axle to hold the axle still)
3. Gently pull the driver from the hub shell and remove. At this stage you can switch the pawls - see page 6.
4. Remove the clutch disk or spacer by sliding it off the axle.
5. Flip the ratcher ring 180 degrees - See page 7 for guidance on removing circlip and ratchet ring.
6. *Freecoaster* - Reinstall the clutch disk ensuring the ramps are in the correct orientation to raise the pawl (see page 5 for guidance)
   Cassette - Reinstall spacer normally.
7. Reinstall the driver.
8. Fasten the cone nut back onto the axle and tighten the grub screw.
9. Reinstall the axle bolt.

05 FREECOASTER CLUTCH DISK

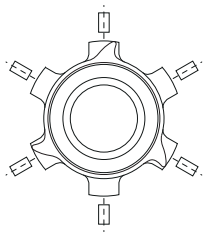
The function of the clutch disk it to raise the pawls of the driver. In order to do this it must have friction applied in two directions. The first is through the friction of the clutch disc and the inner steel sleeve. This is controlled by the 6 grub screws. The second direction is applied through the drive side cone nut.

If the hub is failing to engage properly, then the friction applied to the clutch disc should be checked.

Note: The majority of friction is applied to the clutch disk once the hub is fully assembled with the drive side cone fully tightened. If the cone is not tightened then the clutch disc will rotate freely and the hub will not engage.

If the hub is failing to engage properly, first check the cone nut is fully tightened if it is, then follow these steps:

1. Disassemble the hub to gain access to the clutch disk
2. With the clutch disk on the axle fasten / loosen the bolts in increments of only 1/8th of a turn.
3. Reassemble the hub and tightly fasten the drive side cone.
4. Check the results of the adjustment.



Repeat steps 1 to 4 until engagement is correct.

Never fully tighten the grub screws!

Clutch Disk Orientation

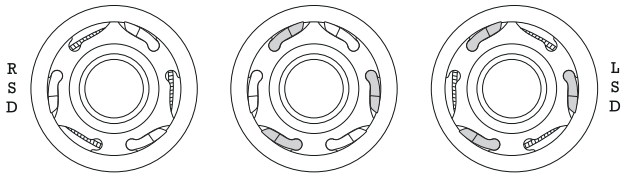
The small lips on the pawls have to be lifted by the ramps on the clutch disk. Simply ensure that the ramps on the clutch disk correspond with the pawls.

06 SWITCHING PAWLS

Freecoaster Driver
(note: the freecoaster driver will come pre-assembled as RSD)

To switch the freecoaster driver from RSD to LSD you will simply have to replace the pawls with the LSD pawls included.

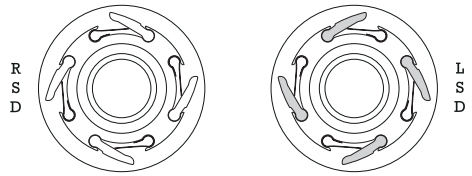
1. Carefully remove the spring from the driver.
2. Take the LSD pawls and install them into the driver.
3. Remove the RSD pawls from the driver then re-install the spring.



Cassette Driver
(note: the cassette driver will come pre-assembled as RSD)

To switch the casette driver from RSD to LSD you will simply have to flip the pawls and springs.

1. Carefully remove one pawl and spring from the driver.
2. Re-install the spring in place of the pawl.
3. Push the sping downwards then install the pawl.
4. Repeat this process for the remaining pawls/springs



07 RATCHET RING REMOVAL

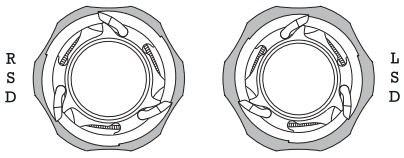
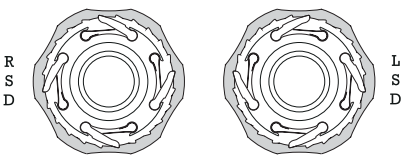
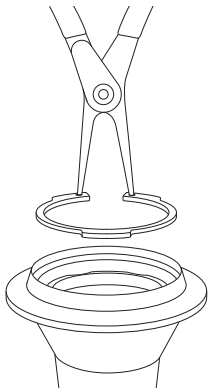
You will need to remove the ratchet ring when changing from freecoaster to cassette mode and swtiching your drive side.

To remove the ratchet ring follow these steps:

1. Remove the circlip using a set of circlip pliers (snap ring tool)
2. Knock the drive side axle against a hard surface until the ratchet ring falls out. At this stage you can either switch your drive side by rotating the ratchet ring 180 degree, or replace the ratchet ring for the cassette ratchet ring / freecoaster ratchet ring.
3. Re-install ratchet ring in the hub, be sure that the ratchet ring is fully pressed into the seat.
4. Re-install the C-clip.
5. Re-install the remaining components as illustrated in fig. 1 or 2.

Ensure that the direction is correct according to the illustation below.

Freecoaster (driver rear view)



Cassette (driver rear view)