



prime
SR1D, SR2, SR2D FRONT HUBS

BEARING REPLACEMENT TECHNICAL MANUAL

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This manual contains the instructions for the correct methods required to replace the bearings used on the Prime SR1D, SR2 and SR2D hubs, as well as safety warnings and caution indicators to avoid any hazardous situation.

Please, read before attempting any form of repairs on your Prime hubs. Failure to follow the warnings and instructions may result in serious injury if not followed correctly.

It is always recommended that a trained bicycle mechanic perform any maintenance required on the Prime hubs to avoid incorrect installation and prevent injury.

The use of the correct tools is required to perform any tasks on the Prime hubs, the use of incorrect tools may damage the hubs if not correct which can lead to premature failure of the product which may void warranty.

	WARNING	
	When assembling or working on the any component from the Prime take care. Please, always wear protective, gloves and goggles, regardless of whether the component is connected to the battery.	

	WARNING	
	The Prime bearing replacement manual is intended for professional mechanics. Persons without professional training in the assembly of bicycles or components must not handle or install any components on their own.	

	WARNING	
	Next guides show in detail what is required with specifications and associated information to replace the bearings in Prime hubs. Assembly and replacement guides are also included along with the tools required for each procedure. Please note that the guide shows recommendations and procedures and is intended to avoid possible errors in the process that could damage the system.	

REQUIRED BEARINGS

The below chart shows the bearings required for each of the different models of Prime SR front hubs along with the dimensions for each bearing type.

		Bearings	
		Hub Shell	
Orientation	Model	Drive Side (Right)	Disc Side (Left)
Front	SR1 (Straight Pull - Rim Brake)	1 x 699 (9.0mm ID x 20.0mm OD x 6.0mm W)	1 x 699 (9.0mm ID x 20.0mm OD x 6.0mm W)
	SR1D (Straight Pull - Disc Brake)	1 x 6803 (17.0mm ID x 26.0mm OD x 5.0mm W)	1 x 6803 (17.0mm ID x 26.0mm OD x 5.0mm W)
	SR2 (J-Bend - Rim Brake)	1 x 6900 (10.0mm ID x 22.0mm OD x 6.0mm W)	1 x 6900 (10.0mm ID x 22.0mm OD x 6.0mm W)
	SR2D (J-Bend - Disc Brake)	1 x 15267 (15.0mm ID x 26.0mm OD x 7.0mm W)	1 x 15267 (15.0mm ID x 26.0mm OD x 7.0mm W)

	INFORMATION	
	ID = Internal Diameter OD = Outer Diameter W = Width Please note that all measurements are in millimetres (mm)	

TOOLS

The following section goes through the tools required to perform the correct procedure to disassemble and re-assemble the Prime hubs for bearing replacement.

TOOLS AND CONSUMABLES REQUIRED FOR ASSEMBLY

- Isopropyl Alcohol
- Cleaning Cloth
- Anti-Seize Grease (Teflon based)
- Dead Blow Mallet or Rubber Mallet
- Drift
- Bearing Press Fit Tool - Compatible with with all necessary bearing
- Workshop or Latex Gloves
- Protective Eye Wear
- Small Flat Head Screw Driver
- Hub Support Tool
- Bearing/Axle Drift

<i>Tool</i>	<i>Brand</i>	<i>Model</i>	<i>Link</i>
Star Ratchet Ring Removal Tool	Lifeline	Pro Inner Ratchet Nut Removal Tool	https://www.wiggle.com/p/lifeline-pro-inner-ratchet-hub-nut-removal-tool
	Bearing Pro	Ring Nut Lockring Tool (Star Ratchet)	https://www.bearingprotools.com/products/ring-nut-lockring-tool-star-ratchet-for-dt-swiss-180-240-240s-350-rear-hubs?variant=39677295067241
Bearing Press Fit Tool	Lifeline	Pro Bearing Press Set	https://www.wiggle.com/p/lifeline-pro-bearing-press-set
	Wheels Manufacturing	Bearing Press Pro Kit	https://wheelsmfg.com/presses-tools/presses-extractors/bearing-press-pro-kit.html
Bearing Removal Tool	Bearing Pro	Bearing Puller for Bikes (Expanding Type)	https://www.bearingprotools.com/products/bearing-puller?variant=6945738915898

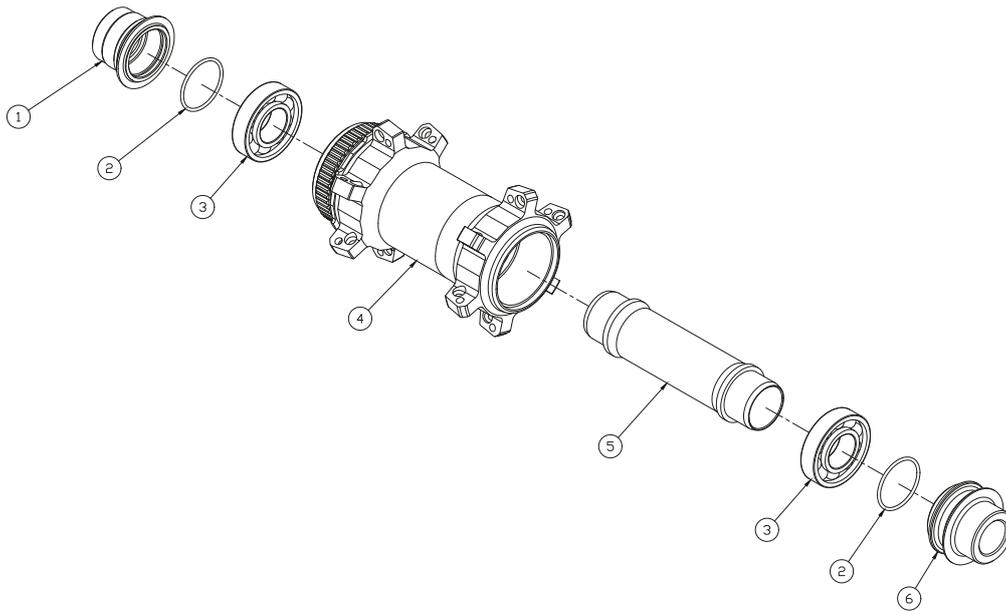
WARNING	
	Please note that the use of incorrect tools may cause damage to the hub and will void all warranty. The above tools are recommend by Prime and are proven the correct tools to carry out the bearing replacement.

EXPLODED DIAGRAM



WARNING

Please note that the below diagram is for illustration purposes only, The hubshell, endcaps design may differ between models or spec. Diagram is used purely for aiding with showing part names and descriptions that may be used throughout the guide.



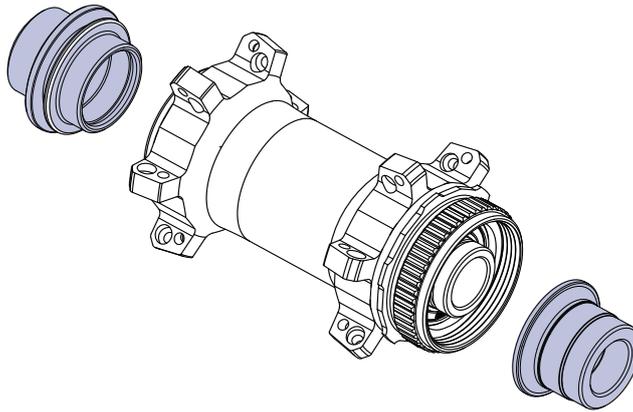
Part #	Description	Quantity
1	Left Side End Cap	1
2	O-Ring (Pre Fitted in End Caps)	2
3	Left Side Bearing	1
4	Hub Shell	1
5	Axle	1
6	Right Side Bearing	1
7	Right Side End Cap	1

DISASSEMBLY

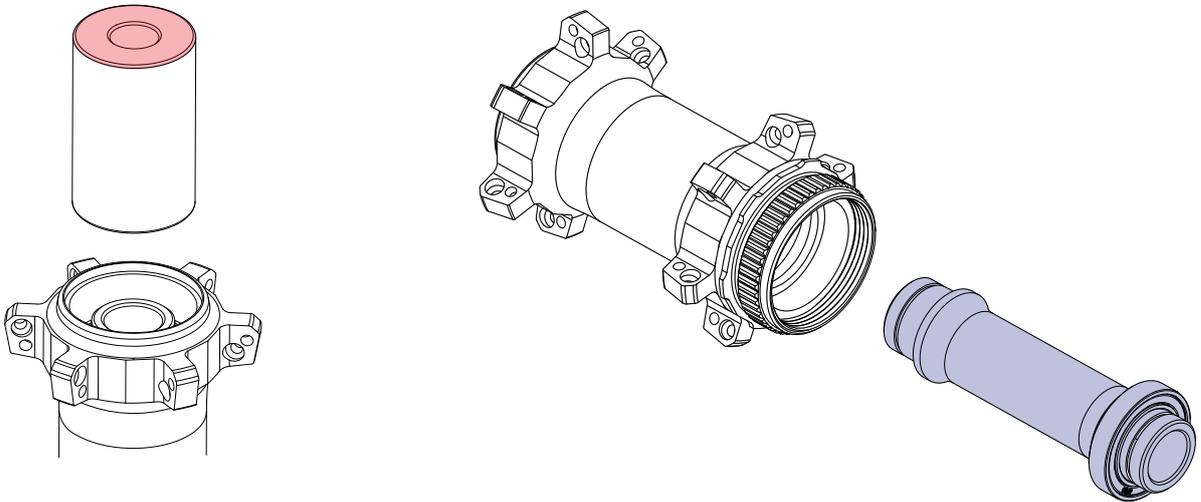
The following steps go through the disassembly of the Prime front hubs, each step should be followed precisely to avoid any error.

The disc rotor should be removed prior to any work being carried out.

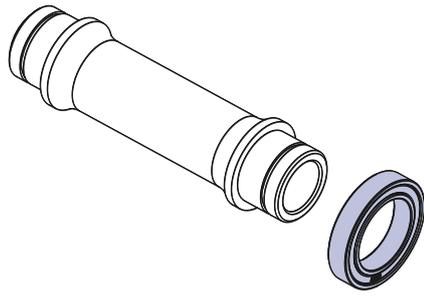
it is advised that through all the steps in the disassembly that parts should be cleaned and laid out in an orderly format to help with re-assembly and to prevent any lose of parts.



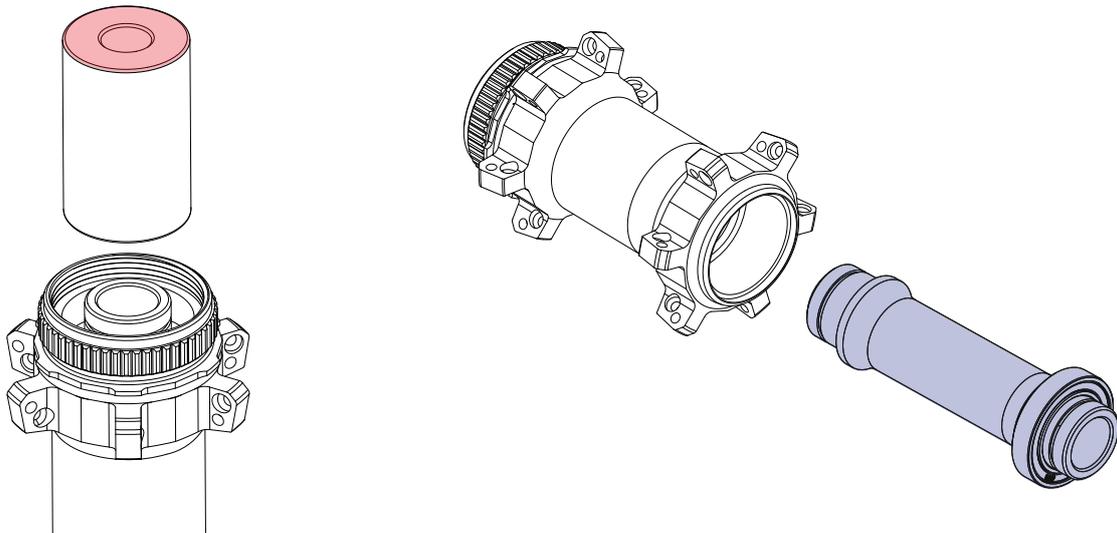
1. Remove both left and right side end caps.



2. Place the hub/wheel on the hub support tool. Taking the dead blow or rubber mallet and bearing/axle drift, knock out the axle and left side bearing . Do this by hitting the end of the axle on the right side highlighted in red.



3. Remove the bearing off the axle.

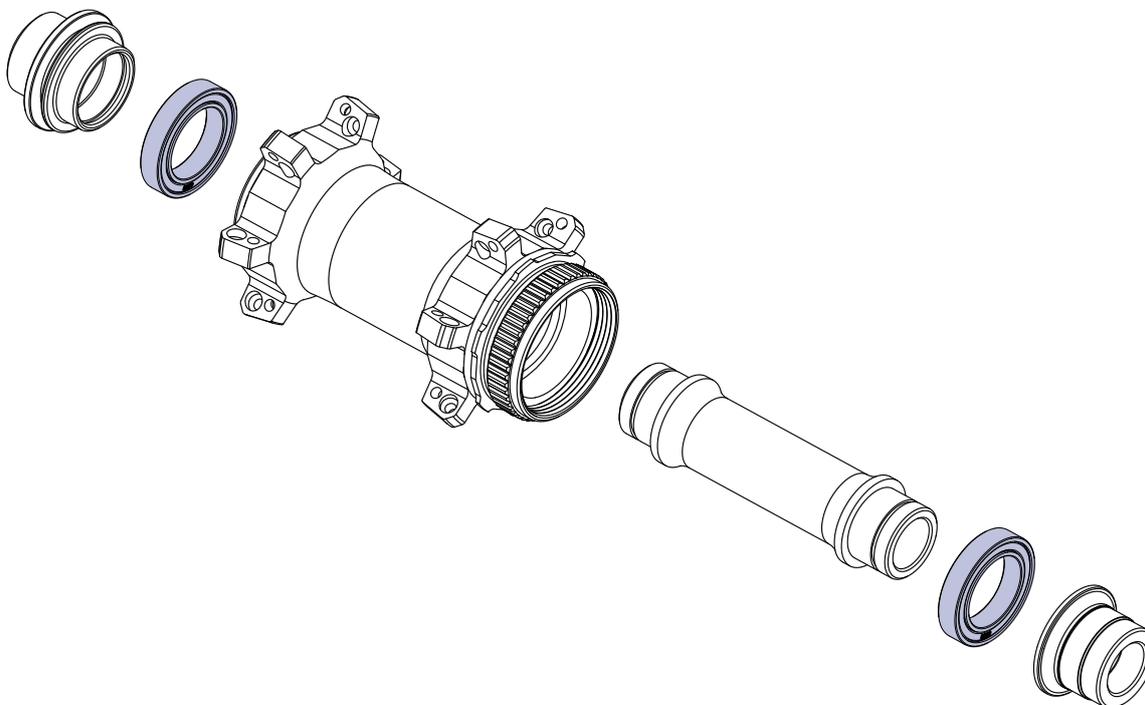


4. Re-insert the axle and lace the hub/wheel on the hub support tool again. Taking the dead blow or rubber mallet and bearing/axle drift, knock our the right side bearing using the axle as a drift. Do this by hitting the end of the axle on the left side highlighted in red.

This concludes the main dismantle of the front hub, ensure all parts are laid out in an orderly fashion ready for re-assembly later in the guide.

The hub should now be fully disassembled. The below illustration shows the break down of the hub.

The parts highlighted will be being replaced, using page 3 ensure that you have the correct replacement bearing ready before re-assembly.



ASSEMBLY

The following steps go through the assembly and bearing replacement of the Prime front hubs, each step should be followed precisely to avoid any error.

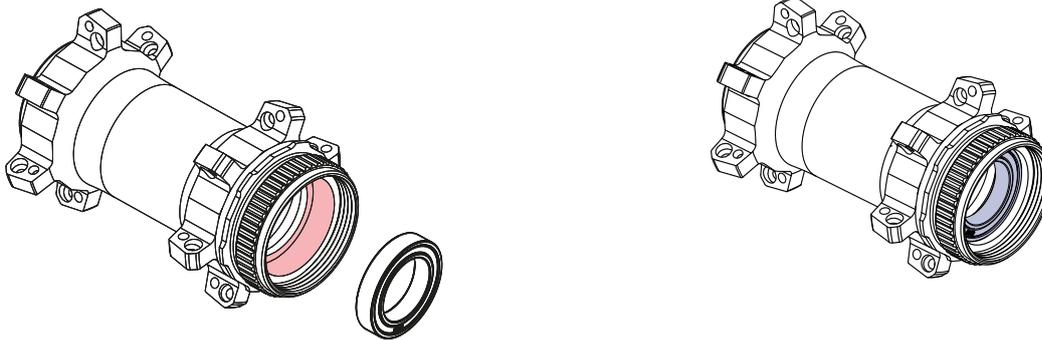
It is advised that through all the steps in the assembly that parts should be cleaned before re-fitment and that the correct grease should be applied where stated.



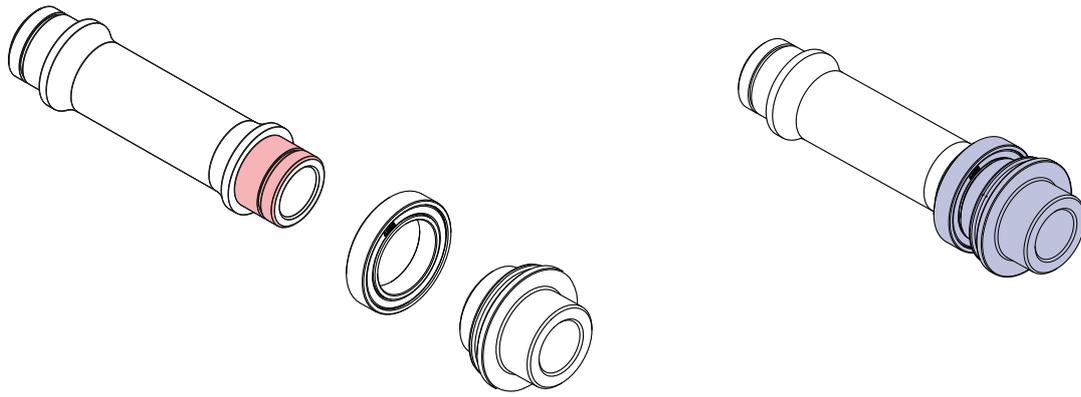
INFORMATION

The following steps illustrate the process to replace bearings on a Prime SR1 front hub. This is purely for illustration purposes and the steps required to complete the process are the same across Prime SR2D and SR2 hubs. Different bearing specifications will be required depending on the hub that is being worked on so please use below chart for guidance.

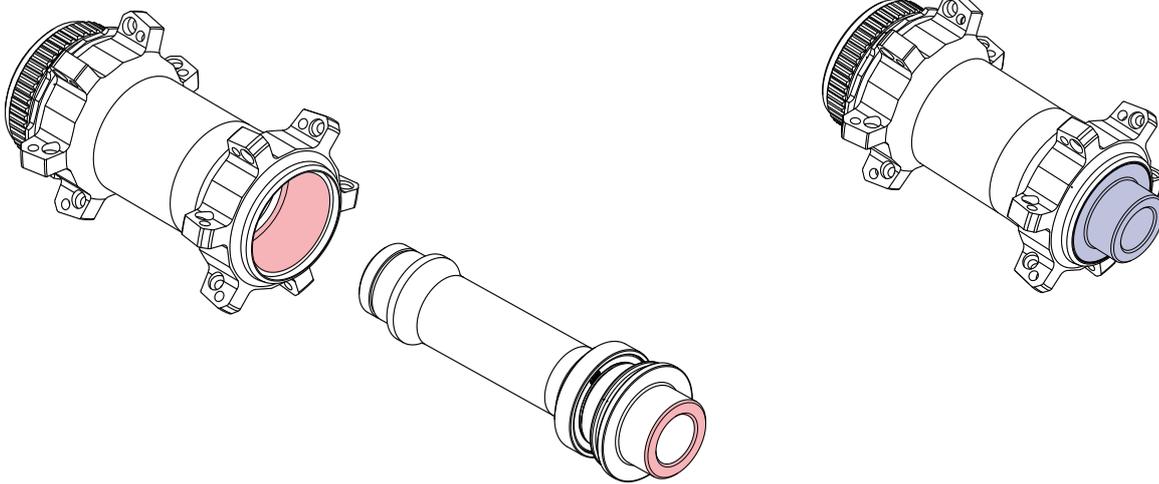
		Bearings	
		Hub Shell	
Orientation	Model	Drive Side (Right)	Disc Side (Left)
Front	SR1 (Straight Pull - Rim Brake)	1 x 699 (9.0mm ID x 20.0mm OD x 6.0mm W)	1 x 699 (9.0mm ID x 20.0mm OD x 6.0mm W)
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	SR2D (J-Bend - Disc Brake)	1 x 15267 (15.0mm ID x 26.0mm OD x 7.0mm W)	1 x 15267 (15.0mm ID x 26.0mm OD x 7.0mm W)



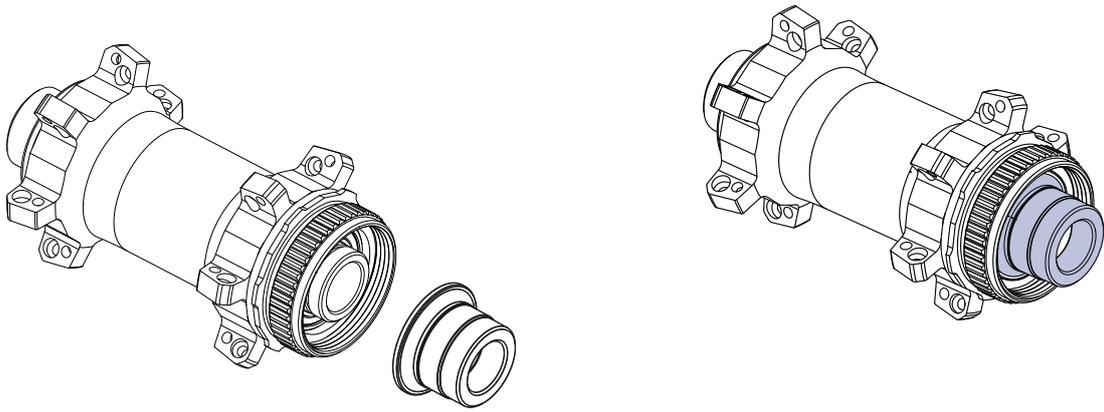
1. Apply Teflon anti-sieze grease to highlighted area in red. Then using the bearing press with the correct press for the left side hubshell bearing, press in the bearing into the hubshell.



2. Apply Teflon anti-sieze grease to the left side bearing surface on the axle highlighted in red. Fit the replacement left side bearing, left side end cap on to the axle.



3. Apply Teflon anti-sieze grease onto area highlighted in red on the hubshell. Place the hub/wheel on the hub support tool, then taking the dead blow or rubber mallet knock the axle and hardware on the axle into the hubshell . Do this by hitting the end of the axle end cap on the left side highlighted in red.



4. Re-fit the right side end cap.

This concludes the assembly and bearing replacement of the Prime front SR hubs. The disc rotor can now be re-attached and the wheel inserted into the bike.



WARNING

It is advised that a test ride is performed once the hub re-assembly is complete to ensure that everything has been fitted correctly.
If performing a test ride it is advised that all necessary safety gear is used to prevent any form of injury.

