

ZIPPER[®]

77/177 & 76/176 Hubs



service
manual



SRAM[®]

GEN.000000004927 Rev F
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SRAM® LLC WARRANTY

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AGAINST SRAM, LLC. YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE, COUNTRY, OR PROVINCE. THIS WARRANTY DOES NOT AFFECT YOUR STATUTORY RIGHTS. TO THE EXTENT THIS WARRANTY IS INCONSISTENT WITH THE LOCAL LAW, THIS WARRANTY SHALL BE DEEMED MODIFIED TO BE CONSISTENT WITH SUCH LAW. FOR A FULL UNDERSTANDING OF YOUR RIGHTS, CONSULT THE LAWS OF YOUR COUNTRY, PROVINCE, OR STATE.

EXTENT OF LIMITED WARRANTY

Except as otherwise set forth herein, SRAM warrants its bicycle components to be free from defects in materials or workmanship for a period of two (2) years after original purchase of the product.

SRAM warrants all Zipp MOTO Wheels and Rims to be free from defects in materials or workmanship for the lifetime of the product.

SRAM warrants all non-electronic Zipp branded bicycle components, Model Year 2021 or newer, to be free from defects in materials or workmanship for the lifetime of the product.

GENERAL PROVISIONS

This warranty only applies to the original owner and is not transferable. Claims under this warranty must be made through the retailer where the bicycle or the SRAM product was purchased or a SRAM authorized service location. Original proof of purchase is required. All SRAM warranty claims will be evaluated by a SRAM authorized service location whereupon acceptance of the claim the product will be repaired, replaced, or refunded at SRAM's discretion. To the extent allowed by local law claims under this warranty must be made during the warranty period and within one (1) year following the date on which any such claim arises.

NO OTHER WARRANTIES

EXCEPT AS DESCRIBED HEREIN, AND TO THE EXTENT ALLOWED BY LOCAL LAW, SRAM MAKES NO OTHER WARRANTIES, GUARANTIES, OR REPRESENTATIONS OF ANY TYPE (EXPRESS OR IMPLIED), AND ALL WARRANTIES (INCLUDING ANY IMPLIED WARRANTIES OF REASONABLE CARE, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE) ARE HEREBY DISCLAIMED.

LIMITATIONS OF LIABILITY

EXCEPT AS DESCRIBED HEREIN, AND TO THE EXTENT PERMITTED BY LAW, IN NO EVENT SHALL SRAM OR ITS THIRD PARTY SUPPLIERS BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. SOME STATES (COUNTRIES AND PROVINCES) DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

LIMITATIONS OF WARRANTY

This warranty does not apply to products that have been incorrectly installed, adjusted, and/or maintained according to the respective SRAM user manual. The SRAM user manuals can be found online at sram.com/service.

This warranty does not apply to damage to the product caused by a crash, impact, abuse of the product, non-compliance with manufacturer's specifications of intended usage, or any other circumstances in which the product has been subjected to forces or loads beyond its design.

This warranty does not apply when the product has been modified, including but not limited to, any attempt to open or repair any electronic and electronic related components, including the motor, controller, battery packs, wiring harnesses, switches, and chargers.

This warranty does not apply when the serial number or production code has been deliberately altered, defaced, or removed.

SRAM components are designed for use only on bicycles that are pedal powered or pedal assisted (e-Bike/Pedelec).

Notwithstanding anything else set forth herein, the battery pack and charger warranty does not include damage from power surges, use of improper charger, improper maintenance, or such other misuse.

This warranty shall not cover damages caused by the use of parts of different manufacturers or parts that are not compatible or suitable for use with SRAM components.

This warranty shall not cover damages resulting from commercial (rental) use.

WEAR AND TEAR

This warranty does not apply to normal wear and tear. Wear and tear parts are subject to damage as a result of normal use, failure to service according to SRAM recommendations, and/or riding or installation in conditions or applications other than recommended.

WEAR AND TEAR PARTS INCLUDE:

- | | | | |
|-----------------------|-----------------------------------|--|---|
| • Aero bar pads | • Chains | • Rear shock mounting | • Stripped threads/bolts (aluminum, titanium, magnesium or steel) |
| • Air sealing o-rings | • Corrosion | hardware and main seals | |
| • Batteries | • Disc brake rotors | • Rubber moving parts | • Tires |
| • Bearings | • Dust seals | • Shifter and Brake cables (inner and outer) | • Tools |
| • Bottomout pads | • Free hubs, Driver bodies, Pawls | • Shifter grips | • Transmission gears |
| • Brake pads | • Foam rings, Glide rings | • Spokes | • Upper tubes (stanchions) |
| • Bushings | • Handlebar grips | • Sprockets | • Wheel braking surfaces |
| • Cassettes | • Jockey wheels | | |

ZIPP IMPACT REPLACEMENT POLICY

Zipp branded products, Model Year 2021 or newer, are covered under a lifetime impact-damage replacement policy. This policy can be used to obtain a replacement of a product in the event of non-warranty impact damage occurring while riding your bicycle. See www.zipp.com/support for more information.

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SAFETY FIRST!

We care about YOU. Please, always wear your safety glasses and protective gloves when servicing Zipp® products.

Protect yourself! Wear your safety gear!

Rear Hub Service

The hub can be serviced while in the wheel. However, if your spokes or rim are damaged, you can remove the hub from the wheel which will make servicing your hub easier. To remove the hub, use a spoke wrench to de-tension the spokes, then use a pair of metal snips to cut the spokes, remove the hub from the wheel, and remove the spoke ends from the hub (not pictured).

For part numbers, please refer to the [Zipp Spare Parts Catalog](#) in the Support section of www.zipp.com.

Tools Needed for Service

Zipp® Parts

- Zipp 61903 176/177 hub bearings (x2)
- Zipp 176/177 driver body seal and shim kit
- Zipp 176/177 driver body kit (optional)

Common Tools

- Sealed bearing puller with 17 mm slotted attachment
- 17 mm (ID) over axle bearing spacer (min length of 50 mm)
- 17 mm (x2) (ID) over axle bearing spacers (min length of 9 mm)
- Wheels Manufacturing Press-1 Sealed Bearing Press Kit or similar
 - 6903/61903 bearing press adapters (x2)
 - T-handle threaded bearing press
- Aluminum vise blocks
- Bench vise

- Cable tie
- Clean, lint-free shop towels
- Grease brush
- Nitrile gloves
- Plastic mallet
- Safety glasses

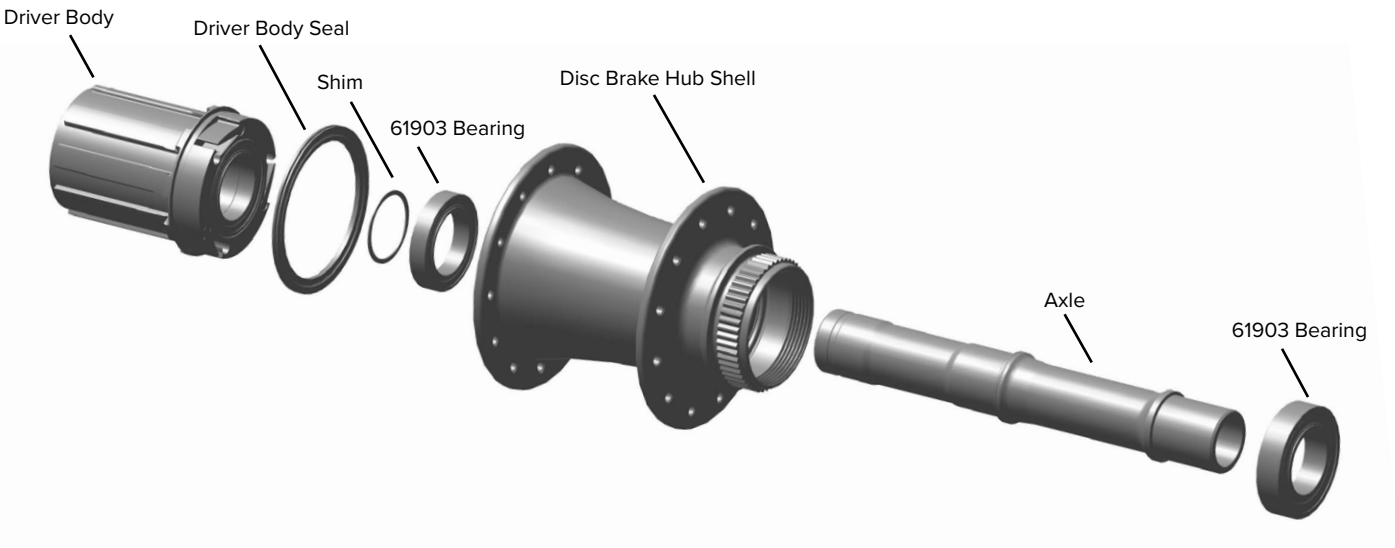
Lubricants and Fluids

- SRAM® Butter grease
- Isopropyl alcohol

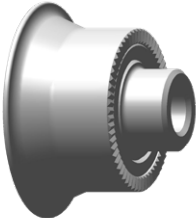
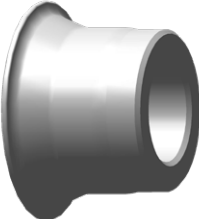
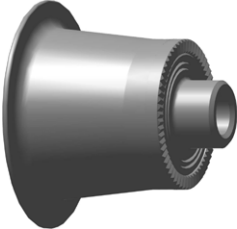

SAFETY INSTRUCTIONS

Always wear nitrile gloves when working with bicycle grease.

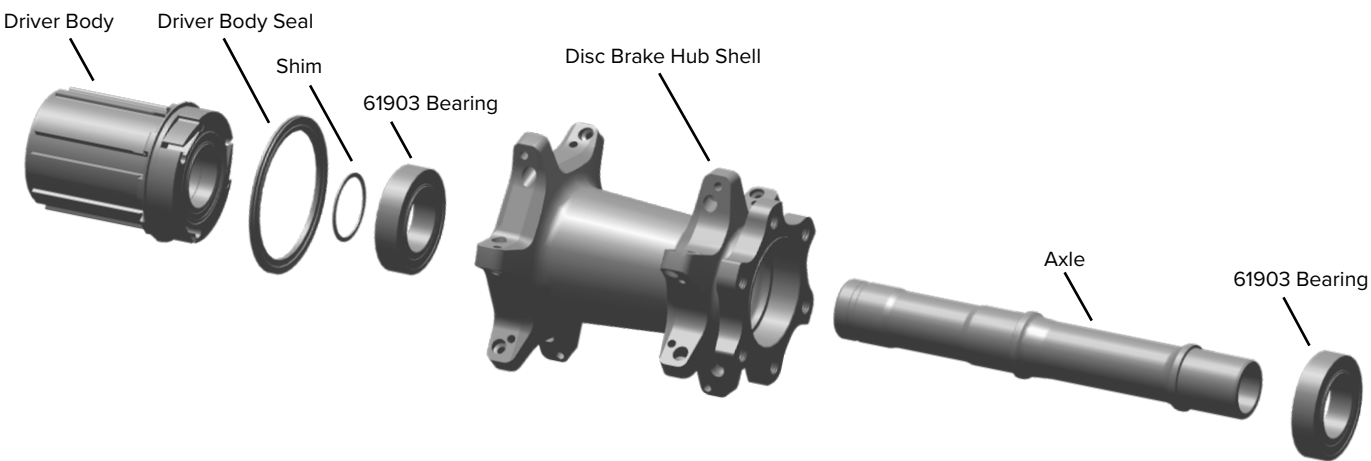
Rear Hub Exploded View - 176D



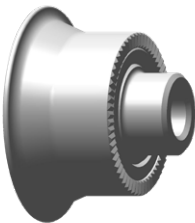

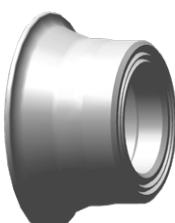
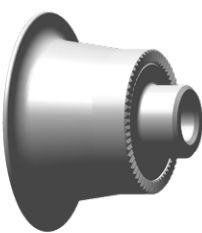

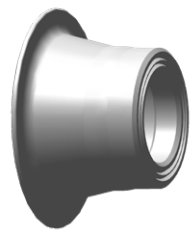
Rear Hub End Caps - 176D

	Quick Release	12 mm x 142 mm
Drive Side		
Non-Drive Side		

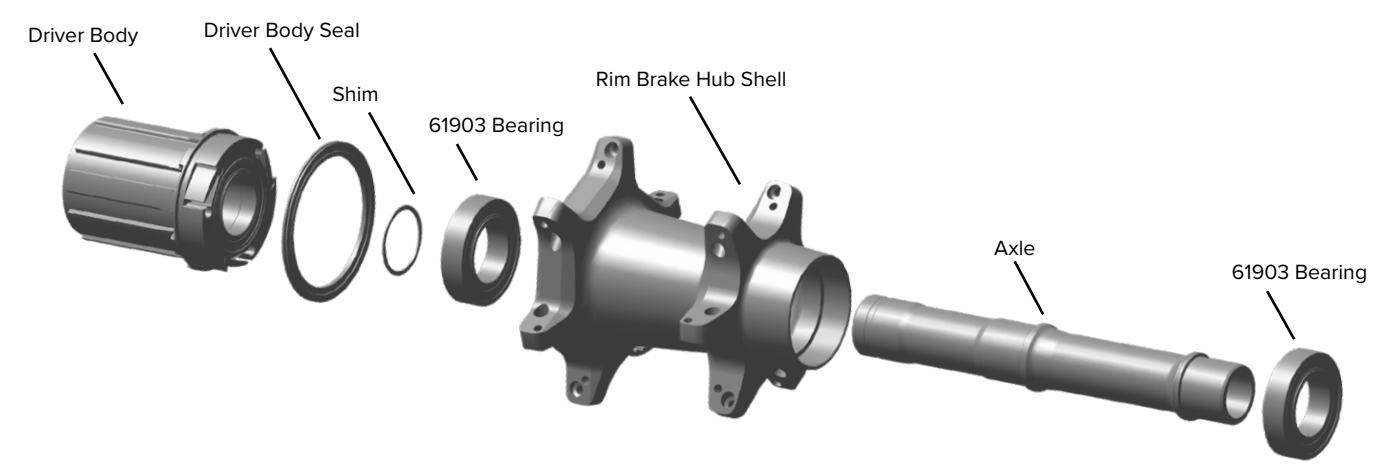
Rear Hub Exploded View - 177D



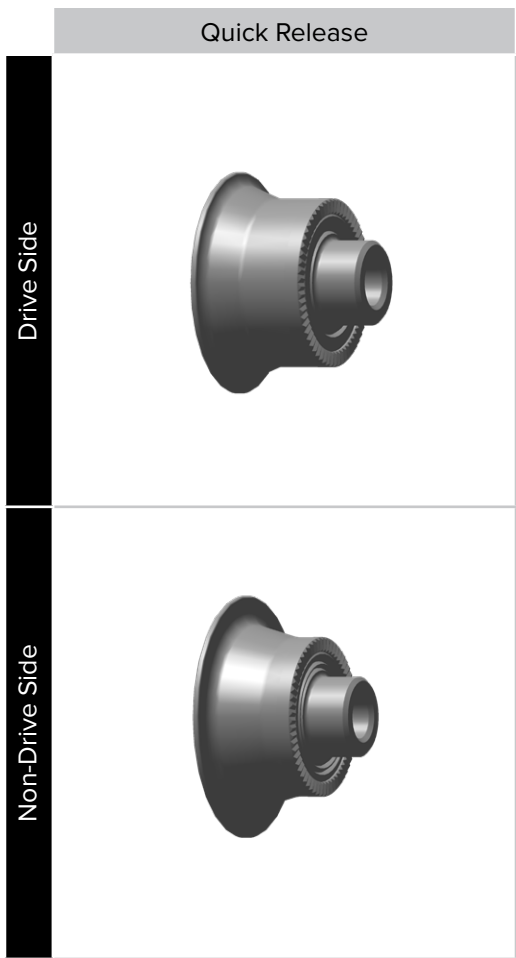
Rear Hub End Caps - 177D

	Quick Release	12 mm x 142 mm	12 mm x 135 mm
Drive Side			
Non-Drive Side			

Rear Hub Exploded View - 177/176 - 177 Pictured



Rear Hub End Caps - 177/176



Rear Hub Bearing Removal

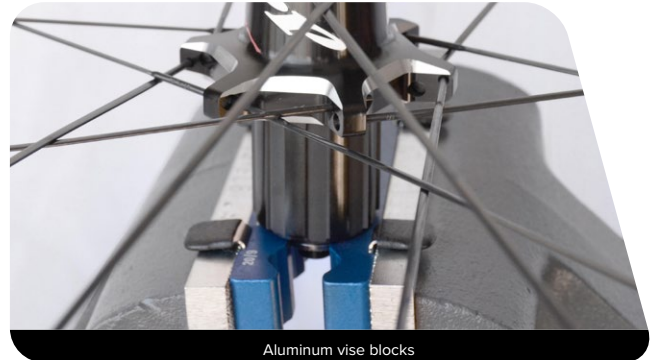
The procedure for rear hub bearing removal is the same for disc brake 176D, 177D, and rim brake 176, and 177 hubs. The 177D disc brake hub is pictured.

NOTICE

To prevent damage to the hub surfaces, do not use Acetone or similar products to clean parts.

- 1 Clamp the aluminum vise blocks into a vise. Clamp the small diameter of the end cap into the vise blocks and pull up on the hub to remove the end cap. Repeat on the other side to remove the other end cap.

Alternate method: To remove quick release end caps, insert a quick release skewer into one side of the hub and use the skewer to push the opposite end cap off the hub. Repeat to remove the other end cap.

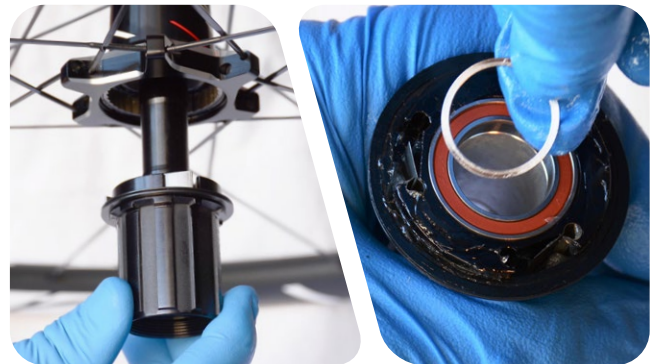


Aluminum vise blocks

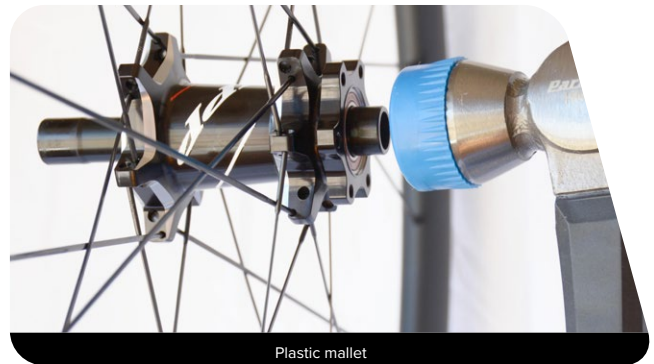
- 2 Position the wheel horizontally with the driver body facing downward. This will allow the pawls and leaf springs to remain in the driver body as it is being removed. Use your fingers to remove the driver body assembly from the hub shell.

NOTICE

A shim rests on the bearing located on the inboard side of the driver body. If this shim falls off when you remove the axle, set it aside until you are ready for assembly.



- 3 Use a plastic mallet to gently tap the exposed axle end on the non-drive side of the hub to dislodge the drive side bearing. Remove the axle and drive side bearing from the hub shell.



Plastic mallet

- 4** Install the 17 mm bearing puller slotted attachment through the non-drive side bearing. Align the slotted attachment with the bottom of the bearing, then tighten the slotted attachment to expand the puller inside the bearing.

NOTICE

Do not overtighten the slotted attachment. For more detailed assembly and usage information, consult your bearing puller manufacturer's instructions.



- 5** Thread the shaft of the bearing puller into the slotted attachment. Hold the wheel firmly in place and forcefully pull back on the slide hammer to remove the bearing from the non-drive side of the hub shell. Remove the bearing from the slotted attachment.



- 6** Spray isopropyl alcohol on the rear hub bearing bores and the axle, and clean them with a rag.

Rear Hub Bearing Installation

The procedure for rear hub bearing installation is the same for disc brake 176D, 177D, and rim brake 176, and 177 hubs. The 177D disc brake hub is pictured.

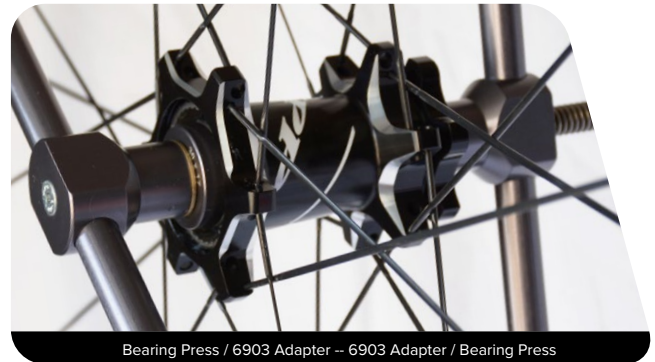
NOTICE

To prevent damage when pressing the bearings into the rear hub, make sure that the bearing press adapters contact both the inner and outer races of the bearing.

- 1 Install a new 61903 bearing into the drive side bearing bore of the hub.
Bearings with a **blue** seal should be installed with the **black** seal facing outward.
Bearings with an **orange** seal should be installed with the **orange** seal facing outward.



- 2 Slide the 6903 bearing adapter onto the threaded rod of the bearing press tool. Insert the threaded rod through the drive side of the hub shell and position the narrow end of the bearing adapter into the center of the bearing.
Slide the second 6903 bearing adapter onto the threaded rod, and position the adapter into the non-drive side hub shell bearing bore.
Thread the bearing press handle onto the threaded rod. Turn the threaded handle clockwise to press the bearing into the drive side bearing bore until it is hand tight.
Remove the bearing press tool.



NOTICE

Do not overtighten the bearing.

- 3 Install the longer, drive side of the axle through the non-drive side of the rear hub and through the drive side bearing.



- 4** Install a new 61903 bearing over the axle, into the non-drive side bearing bore of the rear hub.

Bearings with a **blue** seal should be installed with the **black** seal facing outward.

Bearings with an **orange** seal should be installed with the **orange** seal facing outward.



- 5** Slide a 6903 bearing adapter and a 17 mm (ID) over axle bearing spacer (>9 mm length) onto the threaded rod of the bearing press tool. Insert the threaded rod of the bearing press through the non-drive side of the hub shell.

Slide the second 6903 bearing adapter and 17 mm (ID) over axle bearing spacer (>50 mm length) onto the threaded rod, over the drive side axle.

Thread the bearing press handle onto the threaded rod. Turn the threaded handle clockwise to press the bearing into the non-drive side bearing bore until it is hand tight.

Check for side to side axle movement in the hub. If there is movement, repeat step 5 to press the bearings into the hub shell further.

Remove the bearing press tool.

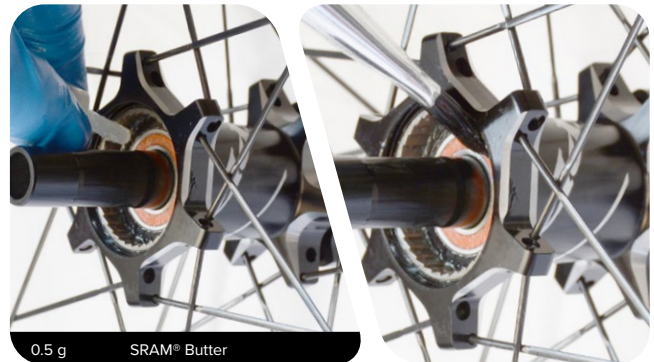


NOTICE

Do not overtighten the bearing.

The over axle bearing spacers must be long enough so there is no compression on the axle as the second bearing is being pressed into the hub shell. Bearing adapters must not contact the axle.

- 6** Use the SRAM® Butter grease syringe to apply 0.5 gram of grease onto the ratchet ring. Use your finger or a brush to spread the grease around the ratchet ring.



- 7** Install the shim removed during disassembly, over the axle on the drive side of the hub shell.



Driver Body Installation

The procedure for driver body installation is the same for disc brake 176D, 177D, and rim brake 176, and 177 hubs. The 177D disc brake hub is pictured. Zipp recommends replacing the entire driver body assembly if the bearings are worn or any part is damaged. For part numbers, please refer to the [Zipp Spare Parts Catalog](#) in the Support section of www.zipp.com.

- 1 Install the seal, with the groove on the seal facing away from the driver body, midway over the pawls, so that they stay compressed.



- 2 Slide the driver body assembly, ratchet side first, into the drive side of the hub shell.

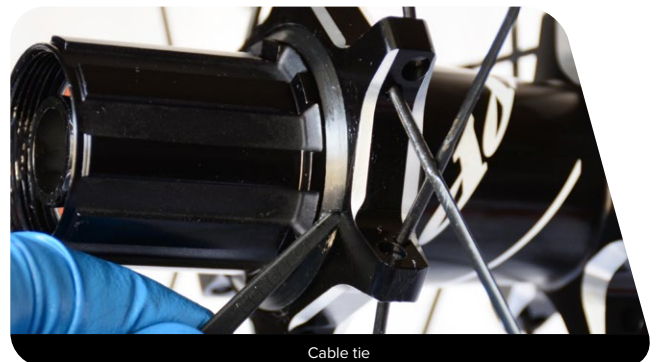


- 3 Use a cable tie to push the rubber driver body seal into the groove in the drive side of the hub shell.

NOTICE

Do not scratch the hub shell. Ensure the seal is seated in the groove. Improperly installed seals may result in contaminated hub internals and hub drag.

If the seal is not installed correctly the freehub body cannot spin freely.



End Cap Installation

The procedure for end cap installation is the same for disc brake 176D, 177D, and rim brake 176, and 177 hubs. The 177D disc brake hub is pictured.

- 1 Spray isopropyl alcohol on a rag and clean the axle and end caps. Install the quick release or thru axle end caps by pressing the end caps onto the axle of the hub by hand.

NOTICE

Ensure the o-ring is in the groove on the internal surface of the end cap. Ensure there is no grease on the o-ring or internal surface of the end cap or axle. Grease may cause the end caps to move.



This concludes the service for Zipp 177D/176D and 177/176 rear hubs.

Front Hub Service

The hub can be serviced while in the wheel. However, if your spokes or rim are damaged, you can remove the hub from the wheel which will make servicing your hub easier. To remove the hub, use a spoke wrench to de-tension the spokes, then use a pair of metal snips to cut the spokes, remove the hub from the wheel, and remove the spoke ends from the hub (not pictured).

For part numbers, please refer to the [Zipp Spare Parts Catalog](#) in the Support section of www.zipp.com.

Tools Needed for Service

Zipp® Parts

- Zipp 61803 76/77 hub bearings (x2)
- Zipp 61903 76D/77D hub bearings (x2)

Common Tools

- Aluminum vise blocks
- Bench vise
- Clean, lint-free shop towels
- Grease brush
- Nitrile gloves
- Plastic mallet
- Safety glasses

- 17 mm (x2) (ID) over axle bearing spacers (min length of 9 mm)
- Wheels Manufacturing Press-1 Sealed Bearing Press Kit or similar
 - (2) 6903 Bearing press adapters (76/77)
 - (2) 6903 Bearing press adapters (76D/77D)
 - T-handle threaded bearing press
- Sealed bearing bearing puller with 17 mm slotted attachment

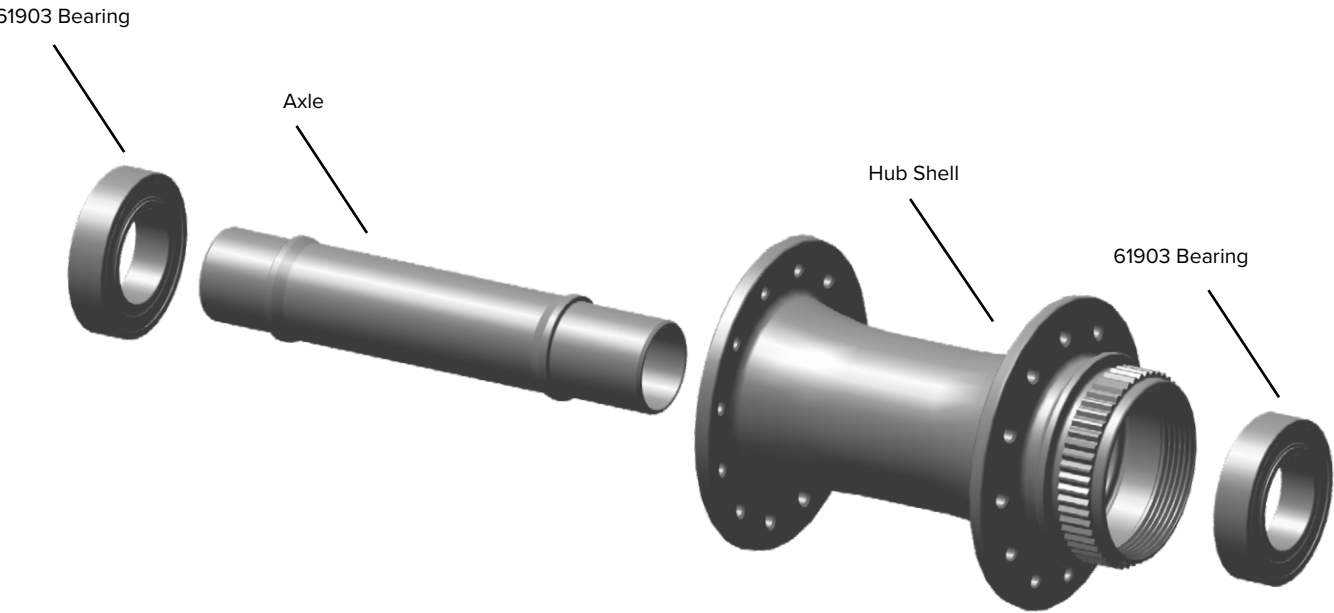
Lubricants and Fluids

- SRAM® Butter grease
- Isopropyl alcohol

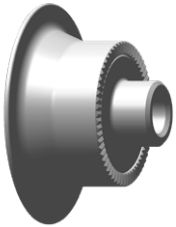


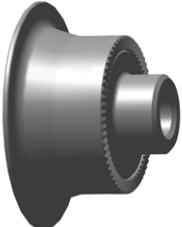


SAFETY INSTRUCTIONS

Always wear nitrile gloves when working with bicycle grease.

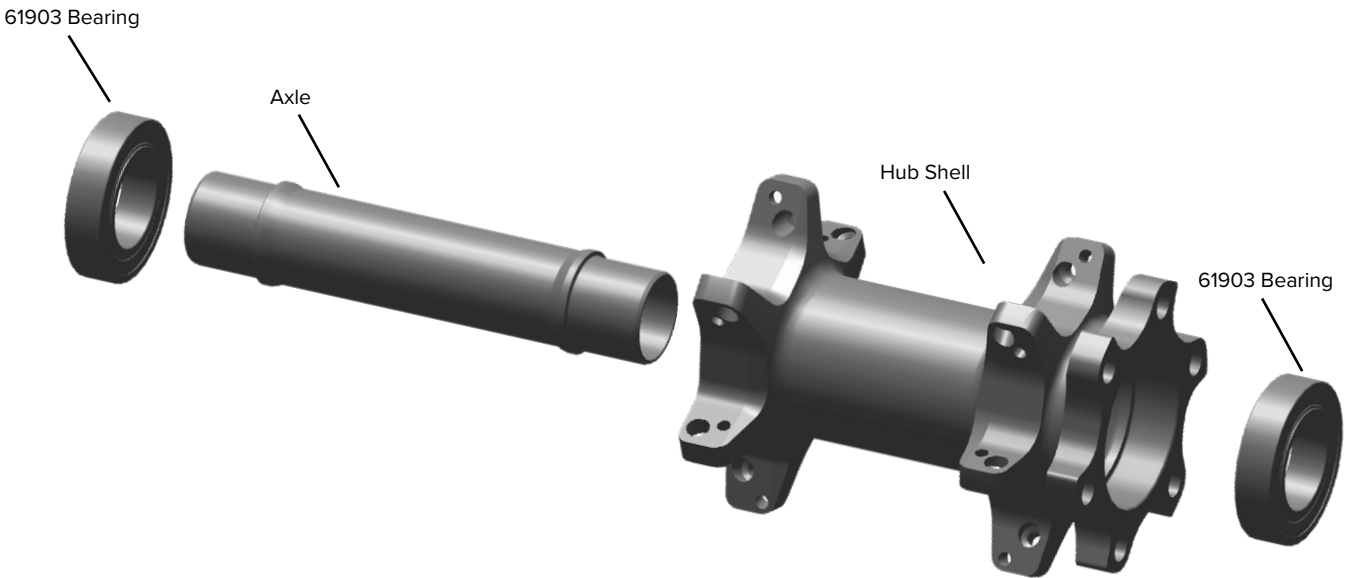
Front Hub Exploded View - 76D



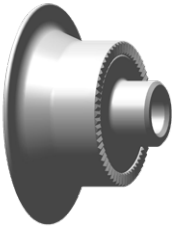


Front Hub End Caps - 76D

	Quick Release	15 mm x 100 mm	12 mm x 100 mm
Drive Side			
Non-Drive Side			

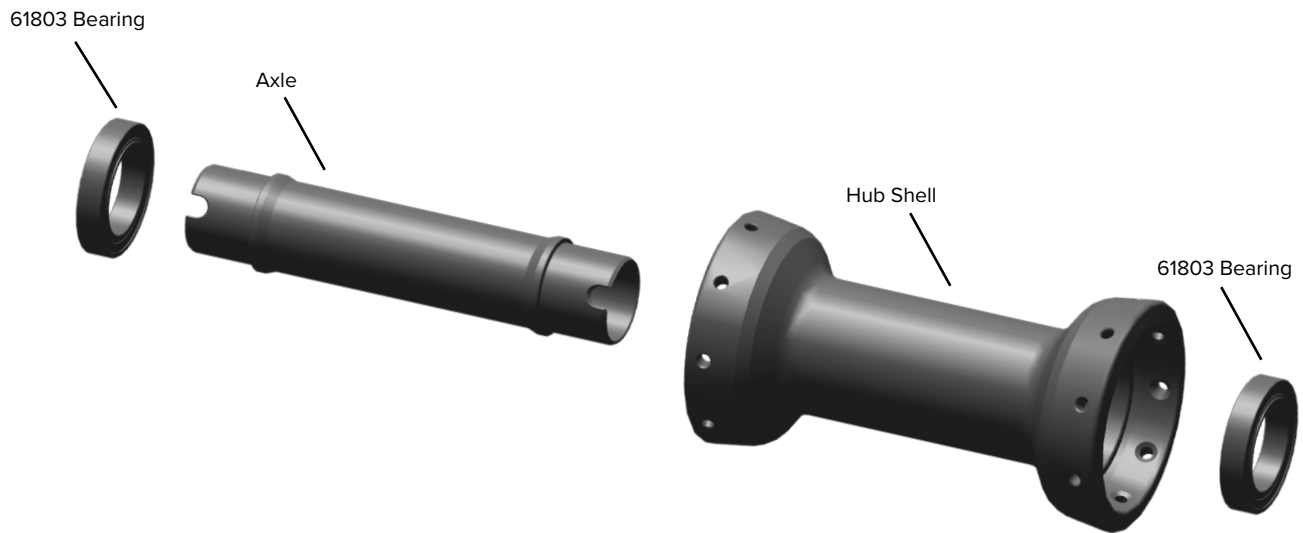
Front Hub Exploded View - 77D



Front Hub End Caps - 77D

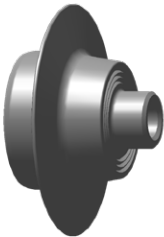
Quick Release	15 mm x 100 mm	12 mm x 100 mm
		

Front Hub Exploded View - 77/76 - 77 Pictured



Front Hub End Caps - 77/76

Quick Release



Front Hub Bearing Removal

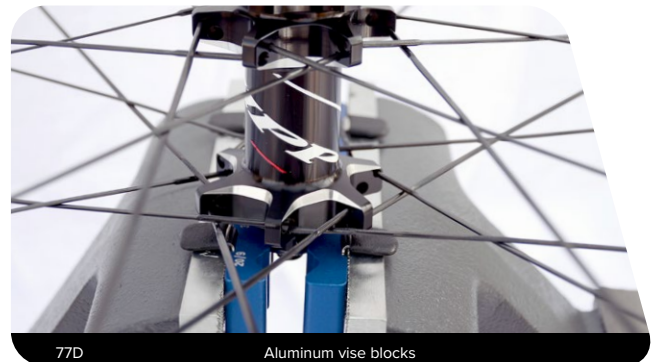
The procedure for front hub bearing removal is the same for disc brake 76D, 77D, and rim brake 76, and 77 hubs. The 77D disc brake and 77 rim brake hubs are pictured.

NOTICE

To prevent damage to the hub surfaces, do not use Acetone or similar products to clean parts.

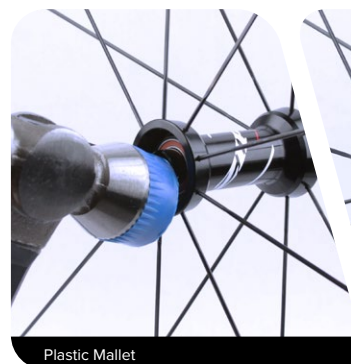
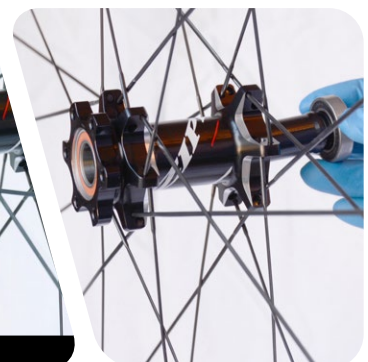
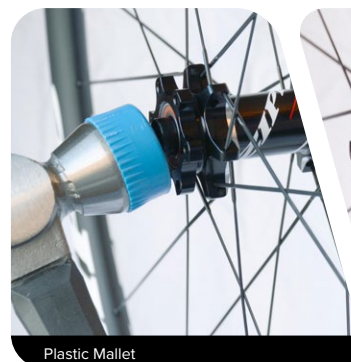
- 1 Clamp the aluminum vise blocks into a vise. Clamp the small diameter of the end cap into the vise blocks and pull up on the hub to remove the end cap. Repeat on the other side to remove the other end cap.

Alternate method: To remove quick release end caps, insert a quick release skewer into one side of the hub and use the skewer to push the opposite end cap off the hub. Repeat to remove the other end cap.



- 2 Use a plastic mallet to gently tap the exposed axle end on the non-drive side of the hub to dislodge the drive side bearing.

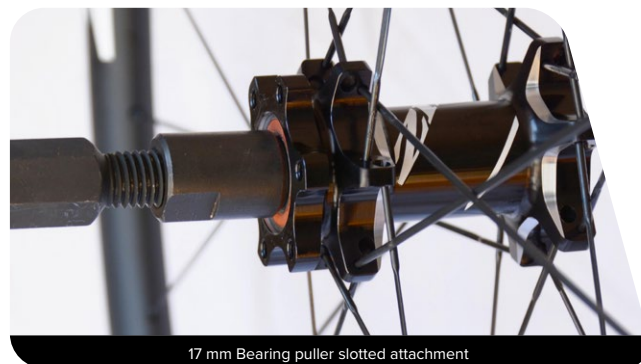
Remove the axle and drive side bearing from the hub shell.



- 3** Install the 17 mm bearing puller slotted attachment through the non-drive side bearing. Align the slotted attachment with the bottom of the bearing, then tighten the slotted attachment to expand the puller inside the bearing.

NOTICE

Do not overtighten the slotted attachment. For more detailed assembly and usage information, consult your bearing puller manufacturer's instructions.



- 4** Thread the shaft of the bearing puller into the slotted attachment. Hold the wheel firmly in place and forcefully pull back on the slide hammer to remove the bearing from the non-drive side of the hub shell.

Remove the bearing from the slotted attachment.



- 5** Spray isopropyl alcohol in the front hub bearing bores and axle, and clean them with a rag.

Front Hub Bearing Installation

The procedure for front hub bearing installation is the same for disc brake 76D, 77D, and rim brake 76, and 77 hubs. The 77D disc brake and 77 rim brake hubs are pictured.

NOTICE

To prevent damage when pressing the bearings into the front hub, make sure that the bearing press adaptors contact both the inner and outer races of the bearing.

- 1 Install a new bearing into the non-drive side bearing bore of the hub shell.
Bearings with a **blue** seal should be installed with the **black** seal facing outward.
Bearings with an **orange** seal should be installed with the **orange** seal facing outward.



- 2 Slide a bearing adapter onto the threaded rod of the bearing press tool. Insert the threaded rod through the non-drive side of the hub shell and position the narrow end of the bearing adapter into the center of the bearing.
Slide the second bearing adapter onto the threaded rod, and position the adapter into the drive side hub shell bearing bore.
Thread the bearing press handle onto the threaded rod. Turn the threaded handle clockwise to press the bearing into the non-drive side bearing bore until it is hand tight.
Remove the bearing press tool.

NOTICE

Do not overtighten the bearing.



- 3** Install the axle through the drive side of the front hub and through the non-drive side bearing.



- 4** Install a new bearing over the axle, into the drive side bearing bore of the front hub.

Bearings with a **blue** seal should be installed with the **black** seal facing outward.

Bearings with an **orange** seal should be installed with the **orange** seal facing outward.



Drive side 6903 Bearing



Drive side 6803 Bearing

5 Slide a bearing adapter and a 17 mm (ID) over axle bearing spacer (>9 mm length) onto the threaded rod of the bearing press tool. Insert the threaded rod through the drive side of the hub shell and position the spacer on the bearing race.

Slide the second 17 mm (ID) over axle bearing spacer (>9 mm length) and bearing adapter onto the threaded rod and position the bearing spacer on the bearing race. Thread the bearing press handle onto the threaded rod. Turn the threaded handle clockwise to press the bearing into the drive side bearing bore until it is hand tight.

Check for side to side axle movement in the hub. If there is movement, repeat step 5 to press the bearings into the hub shell further.

Remove the bearing press tool.

NOTICE

Do not overtighten the bearing.

The over axle bearing spacers must be long enough so there is no compression on the axle as the second bearing is being pressed into the hub shell. Bearing adapters must not contact the axle.



Press / 6903 Adapter / Spacer -- Spacer / 6903 Adapter / Press



Press / 6803 Adapter / Spacer -- Spacer / 6803 Adapter / Press

End Cap Installation

The procedure for end cap installation is the same for disc brake 76D, 77D, and rim brake 76, and 77 hubs. The 77D disc brake and 77 rim brake hubs are pictured.

- 1 Spray isopropyl alcohol on a rag and clean the axle and end caps. Install the quick release or thru axle end caps by pressing the end caps onto the axle of the hub by hand.

NOTICE

Ensure the o-ring is in the groove on the internal surface of the end cap. Ensure there is no grease on the o-ring or internal surface of the end cap or axle. Grease may cause the end caps to move.



This concludes service for Zipp 77D/76D and 77/76 front hubs.

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