

# SRAM®

Roam 60/50, Rail 50  
2014 - 2016



Service Manual



# SRAM®

GEN. 0000000004463 Rev C  
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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.**

**This warranty applies to SRAM products made under the SRAM®, RockShox®, Truvativ®, Zipp®, Quarq®, Avid® and TIME® brand names.**

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

### 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](http://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 SRAM products.

Protect yourself! Wear your safety gear!

## ROAM 60 & RAIL 50 Front Wheel Service

We recommend that you have your SRAM wheels serviced by a qualified bicycle mechanic. Servicing SRAM products requires knowledge of bicycle components as well as the special parts and tools for service.

For exploded diagram and part number information, please refer to the SRAM Wheels Spare Parts List in the Service section of [www.sram.com](http://www.sram.com).

For order information, please contact your local SRAM distributor or dealer.

Information contained in this publication is subject to change at any time without prior notice. For the latest technical information, please visit our website at [sram.com](http://sram.com).

Your product's appearance may differ from the pictures/diagrams contained in this publication.

### Parts and Tools

- Nitrile gloves
- Apron
- Clean, lint-free rags
- Isopropyl alcohol
- Multipurpose bicycle grease and brush
- Bench vise
- (2) 5 mm hex wrenches
- (2) 22 mm open end wrenches  
or  
(2) Adjustable wrenches
- Torque wrench
- Rubber mallet

#### DT Swiss Toolkit HWTXXX00NTK24S



- FR/440 Front Hub Tools
- Small Stepped Tool



- Fabric Strap tool

### SAFETY INSTRUCTIONS

Always wear nitrile gloves when working with bicycle grease.

## ROAM 60 & RAIL 50 End Cap Replacement

**1** **20 mm or 15 mm thru axle end caps:** use 2x 22 mm open end wrenches or adjustable wrenches.

**Quick release (QR) end caps:** use 2x 5 mm hex wrenches.

Hold one wrench stationary and turn the other wrench counterclockwise. One end cap will unthread from the hub and the other will remain on the axle.



**2** Insert the Small Stepped Tool into the open end of the axle.



**3** Use a soft face mallet to tap out the axle from the hub.

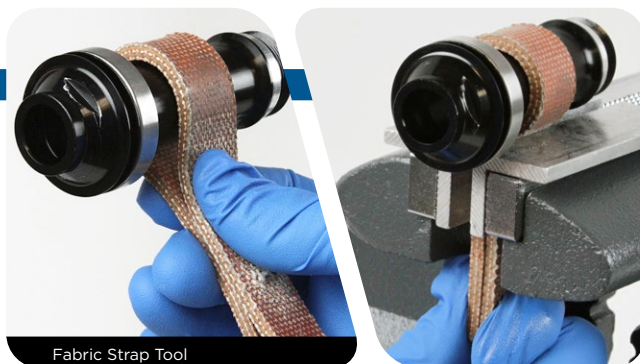




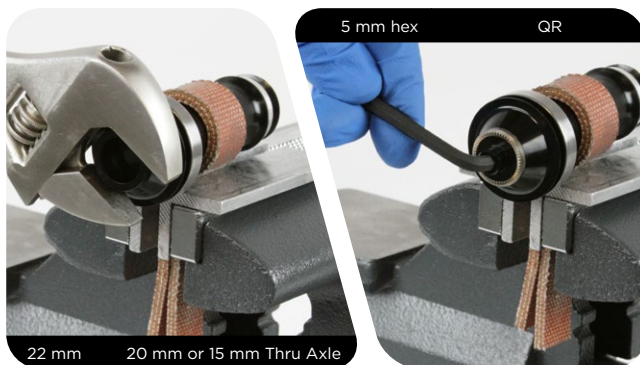
- 4 Wrap the Fabric Strap Tool tightly around the axle. Pull down firmly on the strap while clamping the strap in the vise.

### NOTICE

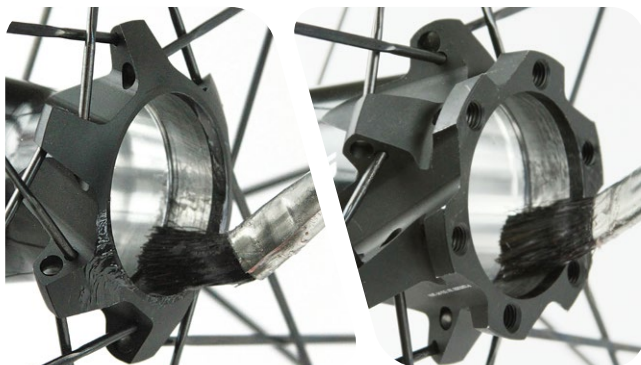
Only use the Fabric Strap Tool to secure the axle in the vise. Do not clamp the axle directly in the vise.



- 5 Remove the end cap. If the axle rotates in the strap tool, remove it from the vise and pull the strap tighter. Make sure the bearing does not come off of the axle.



- 6 Lightly grease the bearing bores.



- 7 Install the axle into the hub and bearing.



- 8** Insert one of the FR/440 Front Hub Tools into the hub against the face of the installed bearing.



- 9** Place the FR/440 Front Hub Tool and wheel onto a bench. Install the other bearing onto the axle with the red seal facing away from the hub.



- 10** Insert the Small Stepped Tool into the axle and bearing. Install the other FR/440 Front Hub Tool onto the Small Stepped Tool and against the bearing face.



- 11** Strike the FR/440 Front Hub Tool with a soft face mallet until the bearing is firmly seated into the bearing pocket.





- 12** Check the axle for play by pushing and pulling it in the hub. If any play is detected, repeat steps 8-11.



- 13** Lightly grease the face of each bearing.



- 14** Thread the new end caps onto the axle. Tighten the end caps to 15 N•m (133 in-lb).



## ROAM 60 & RAIL 50 Front Hub Bearing Replacement

**1** **20 mm or 15 mm thru axle end caps:** use 2x 22 mm open end wrenches or adjustable wrenches.

**Quick release (QR) end caps:** use 2x 5 mm hex wrenches.

Hold one wrench stationary and turn the other wrench counterclockwise. One end cap will unthread from the hub and the other will remain on the axle.



**2** Insert the Small Stepped Tool into the open end of the axle.



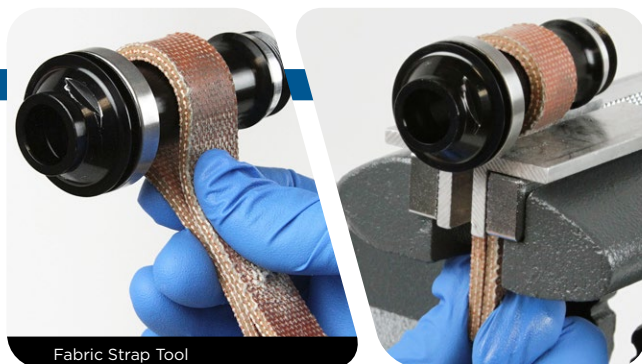
**3** Use a soft face mallet to tap the axle from the hub.



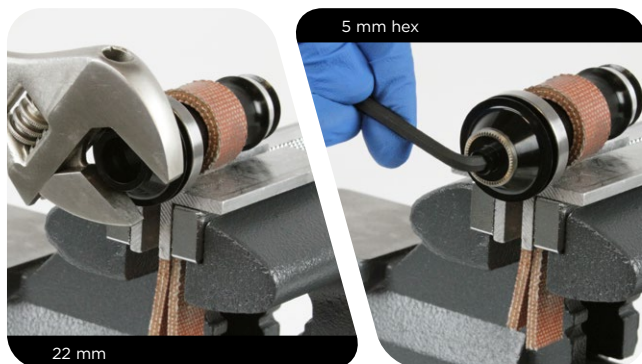
- 4** Wrap the Fabric Strap Tool tightly around the axle. Pull down firmly on the strap while clamping the strap in the vise.

### NOTICE

Only use the Fabric Strap Tool to secure the axle in the vise. Do not clamp the axle directly in the vise.



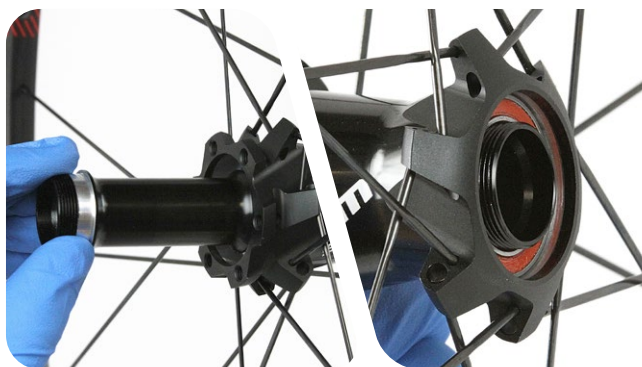
- 5** Remove the end cap. If the axle rotates in the strap tool, remove it from the vise and pull the strap tighter.



- 6** Remove the bearing from the axle.

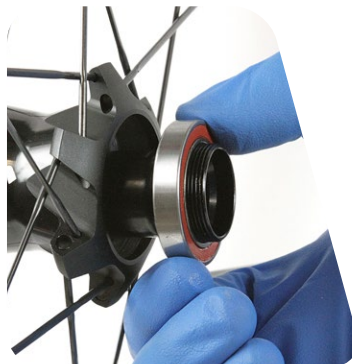
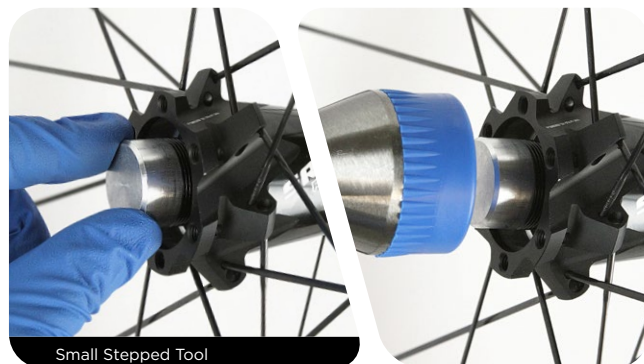


- 7** Insert one end of the axle into the hub and into the installed bearing. Press the axle in as far as possible until it comes out of the bearing.





- 8** Insert the Small Stepped Tool into the axle. Strike the axle with a soft face mallet to remove the bearing from the hub.



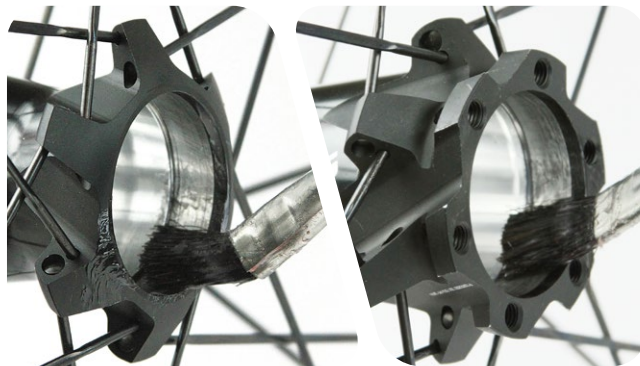
- 9** Remove the bearing from the axle and discard. Install a new bearing onto the axle with the red seal facing away from the axle.



- 10** Clean the hub using isopropyl alcohol and a rag.



**11** Lightly grease the bearing bores.



**12** Insert the axle and bearing into the disc brake side of the hub. Install one of the FR/440 Front Hub Tools over the axle end and against the bearing.



**13** Place the FR/440 Front Hub Tool and wheel onto a bench.



**14** Install the other FR/440 Front Hub Tool over the axle and into the hub. Strike the tool with a soft face mallet until the bearing is firmly seated into the bearing pocket





- 15** Remove the upper LFR/440 Front Hub Tool from the axle. Install a new bearing onto the axle with the red seal facing away from the hub.



- 16** Insert the Small Stepped Tool into the end of the axle. Install the other FR/440 Front Hub Tool on top of the Small Stepped Tool.



- 17** Strike the FR/440 Front Hub Tool with a soft face mallet until the bearing is firmly seated into the bearing pocket.



- 18** Check the axle for play by pushing and pulling it in the hub. If any play is detected, repeat steps 16 and 17.



**19** Lightly grease the face of each bearing.



**20** Thread the new end caps onto the axle. Tighten the end caps to 15 N•m (133 in-lb).



## ROAM 50 Front Wheel Service

We recommend that you have your SRAM wheels serviced by a qualified bicycle mechanic. Servicing SRAM products requires knowledge of bicycle components as well as the special parts and tools used for service.

For exploded diagram and part number information, please refer to the Spare Parts Catalog available on our web site at [www.sram.com](http://www.sram.com).

For order information, please contact your local SRAM distributor or dealer.

Information contained in this publication is subject to change at any time without prior notice. For the latest technical information, please visit our website at [sram.com](http://sram.com).

Your product's appearance may differ from the pictures/diagrams contained in this publication.

### Parts and Tools

- Nitrile gloves
- Apron
- Clean, lint-free rags
- Isopropyl alcohol
- Multipurpose bicycle grease and brush
- Bench vise
- Park Tool AV-4 axle vise
- Torque wrench
- Rubber mallet

#### DT Swiss Toolkit HWTXXX00NTK24S



- Large Diameter Hub Tools



- Long Stepped Tool

### SAFETY INSTRUCTIONS

Always wear nitrile gloves when working with bicycle grease.

## ROAM 50 End Cap Replacement

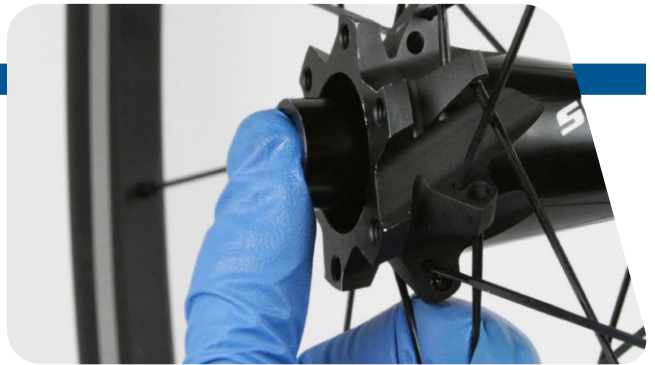
- 1** Pull the end caps from the hub by hand. A Park Tool AV-4 Axle Vise can be used if the end caps are difficult to remove.



- 2** Press the new end caps onto the hub by hand.

### NOTICE

The tall end cap is installed on the disc brake side of the hub.





## ROAM 50 Front Hub Bearing Replacement

- 1** Pull the end caps from the hub by hand. A Park Tool AV-4 Axle Vise can be used if the end caps are difficult to remove.



- 2** Install the Long Stepped Tool into one side of the axle.

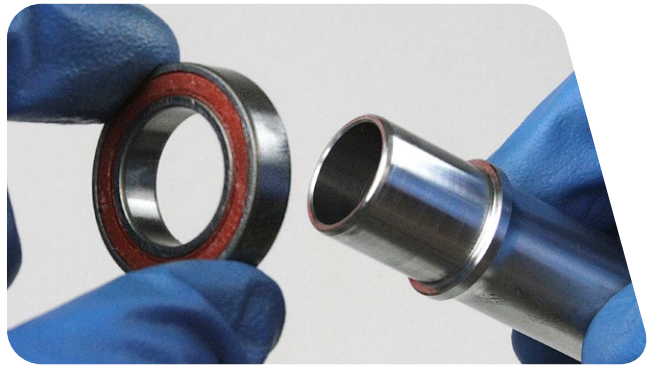


- 3** Use a soft face mallet to tap out the axle from the hub.





**4** Remove the bearing from the axle and discard.



**5** Insert one end of the axle through the hub and into the installed bearing.



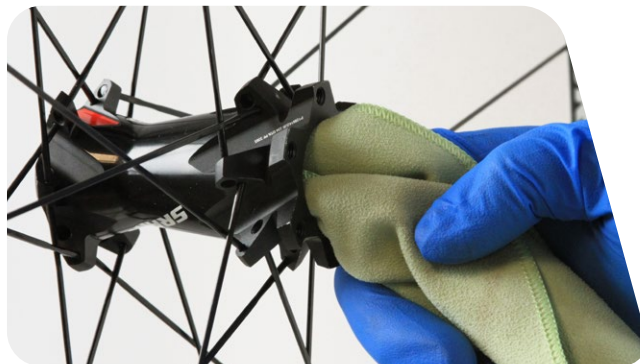
**6** Install the Long Stepped Tool into the axle. Strike the axle with a soft face mallet to remove the bearing from the hub.



**7** Remove the bearing from the axle and discard.



**8** Clean the inside of the hub using isopropyl alcohol and a rag.



**9** Lightly grease the bearing bores.



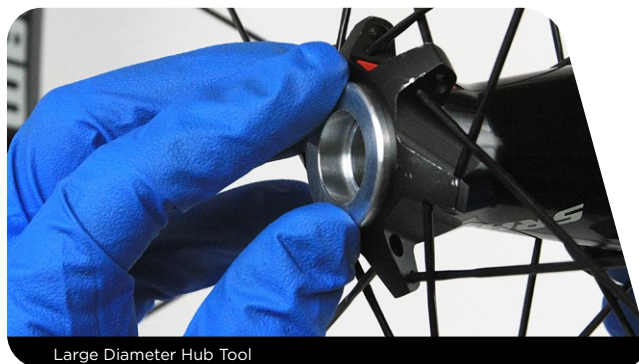
**10** Install a new bearing onto the long end of the axle with the red seal facing away from the axle.



**11** Install the axle into the hub through the disc brake side of the hub.



- 12** Install one of the Large Diameter Hub Tools into the non-brake side of the hub. This will help maintain the alignment of the axle.



- 13** Place the Large Diameter Hub Tool and wheel onto a bench with the disc brake side facing up.



- 14** Install the other Large Diameter Hub Tool over the axle end and into the hub. Strike the tool with a soft face mallet until the bearing is firmly seated into the bearing pocket.





- 15** Turn the wheel over so that the Large Diameter Hub Tool and installed bearing are on the work bench. Install a new bearing onto the axle.



- 16** Install the other Large Diameter Hub Tool over the axle and into the hub. Strike the tool with a soft face mallet until the bearing is firmly seated into the bearing pocket. Periodically check bearing alignment in the hub.



- 17** Check the axle for play by pushing and pulling it in the hub. If any play is detected, repeat steps **12-16**.



- 18** Apply a light layer of grease to each bearing face. Use a rag or paper towel to remove any grease from the ends of the axle.



**19** Press the end caps onto the hub by hand.

***NOTICE***

The tall end cap is installed on the disc brake side of the hub.





## ROAM 60/50 & RAIL 50 Rear Wheel Service

We recommend that you have your SRAM wheels serviced by a qualified bicycle mechanic. Servicing SRAM products requires knowledge of bicycle components as well as the special parts and tools used for service.

For exploded diagram and part number information, please refer to the Spare Parts Catalog available on our web site at [www.sram.com](http://www.sram.com).

For order information, please contact your local SRAM distributor or dealer.

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Your product's appearance may differ from the pictures/diagrams contained in this publication.

### Parts and Tools

- Nitrile gloves
- Apron
- Clean, lint-free rags
- Isopropyl alcohol
- Multipurpose bicycle grease and brush
- Bench vise
- Torque wrench
- Soft face mallet
- Metal Pick

#### DT Swiss Toolkit HWTXXX00NTK24S



- Short Installation Cylinders
- Long Stepped Tool



- Long Installation Tool



- DT Special Grease



- Ring Nut Installation Tool



- Seal Installation Tool

### SAFETY INSTRUCTIONS

Always wear nitrile gloves when working with bicycle grease.

## ROAM 60/50 & RAIL 50 Rear Hub Bearing Replacement

- 1** Pull the end caps from the hub by hand. A Park Tool AV-4 Axle Vise can be used if it the end caps are difficult to remove.

### NOTICE

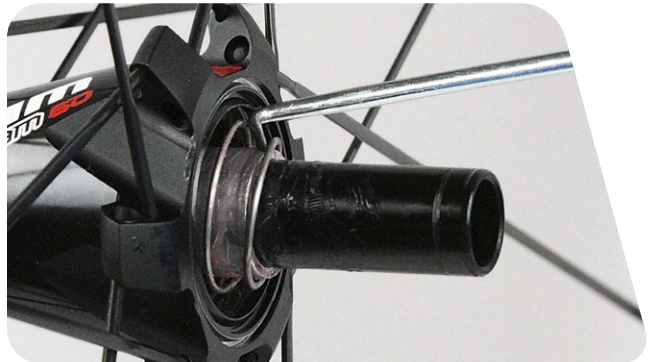
Removal of 9/10 speed driver body is the same as for XD driver body.



- 2** Pull the driver body and spring from the hub by hand. Remove the two star ratchets.



- 3** Use a pick to remove the internal spring from the hub.



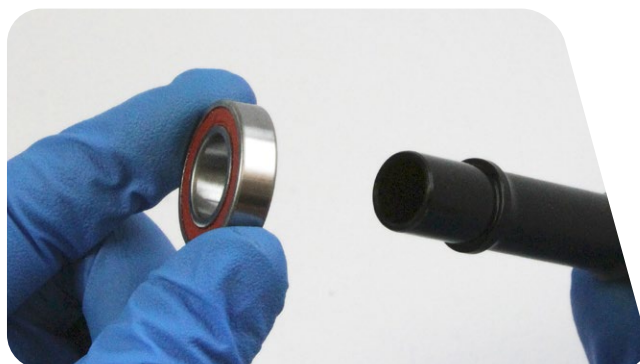
**4** Remove the aluminum spacer from the axle.



**5** Strike the axle with a soft face mallet to remove the disc brake side bearing from the hub.



**6** Remove the bearing from the axle and discard.



**7** To remove the ring nut, first install the Ring Nut Installation Tool into a vise.



- 8** Install the drive side of the hub onto the Ring Nut Installation Tool. Press down firmly and rotate the wheel to make sure that the teeth of the tool engage with the ring nut.



- 9** Press down firmly and rotate the wheel counter-clockwise to remove the ring nut from the hub. The rotor seal will also be removed, and may fall over the ring nut tool onto the vise. Remove the ring nut from the tool. Clean the ring nut and inspect for any damage. Replace the ring nut if it is damaged.



- 10** Use a pick to remove the shim ring from the hub.





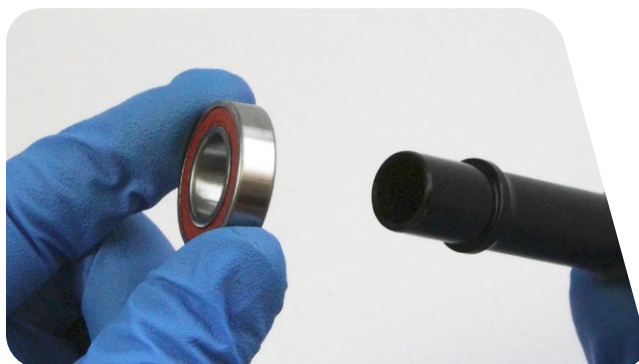
- 11** Insert the short end of the axle through the disc brake side of the hub and into the drive side bearing.



- 12** Strike the axle with a soft face mallet to remove the bearing from the hub.



- 13** Remove the bearing from the axle and discard.

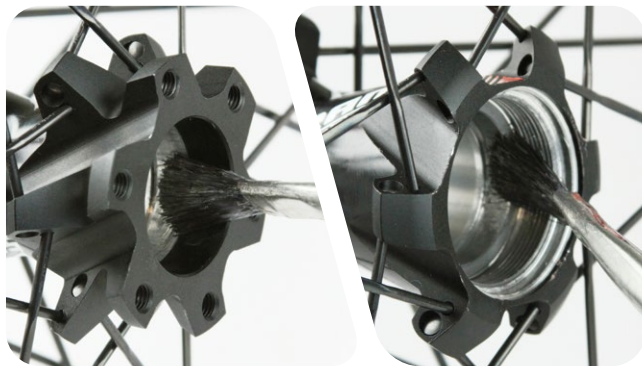


- 14** Clean the inside of the hub using isopropyl alcohol and a rag.

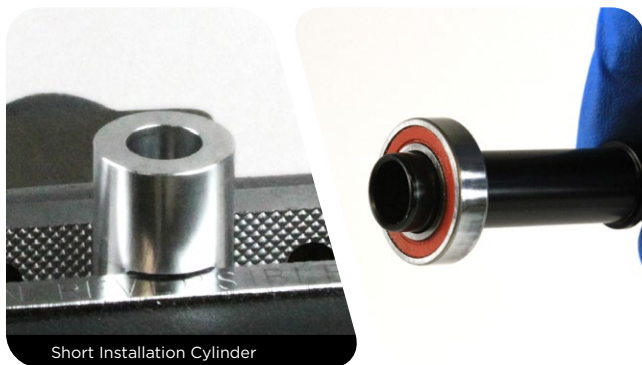




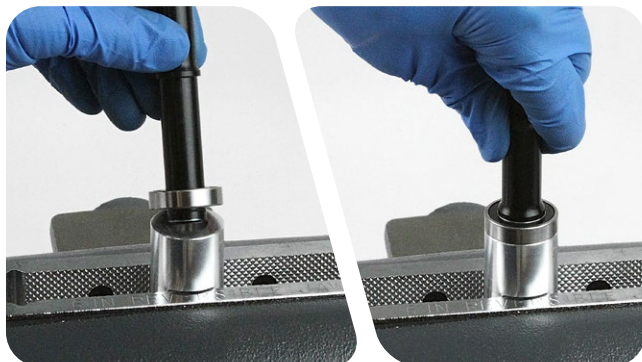
- 15** Lightly grease the bearing bores.



- 16** Install one of the Short Installation Cylinders into a vise. Install a new bearing onto the long end of the axle with the red seal facing away from the axle.



- 17** Install the long end of the axle into the Short Installation Cylinder. Firmly press down on the axle to seat the bearing onto the axle.



- 18** Install the drive side of the hub onto the axle and bearing.



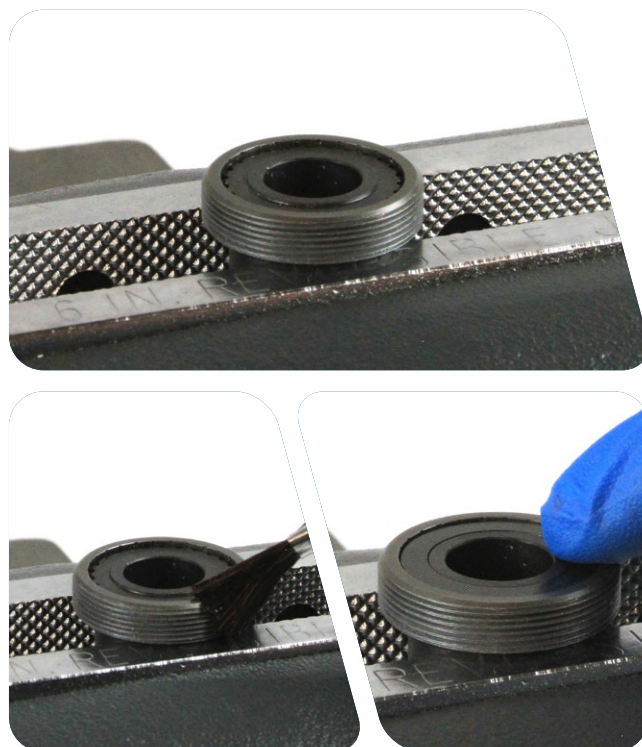
- 19** Install the other Short Installation Cylinder over the axle and into the hub. Strike the Short Installation Cylinder with a soft face mallet until the bearing is firmly seated into the bearing pocket.



- 20** To install the ring nut, first install the Ring Nut Installation Tool into a vise so that the teeth are level with the top of the vise.



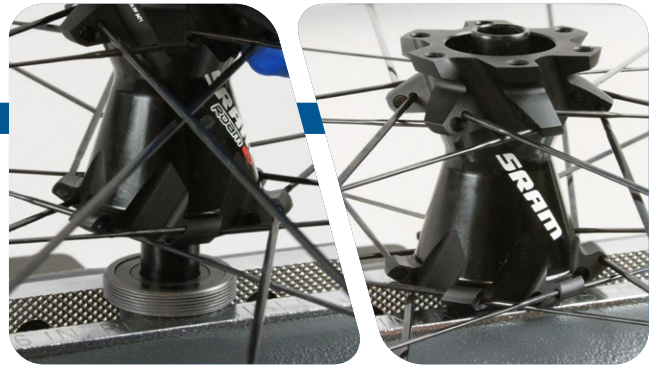
- 21** Place the ring nut onto the Ring Nut Installation Tool with the recessed edge facing up. Apply a light layer of grease to the threads of the ring nut. Place the the shim ring on top of the ring nut.



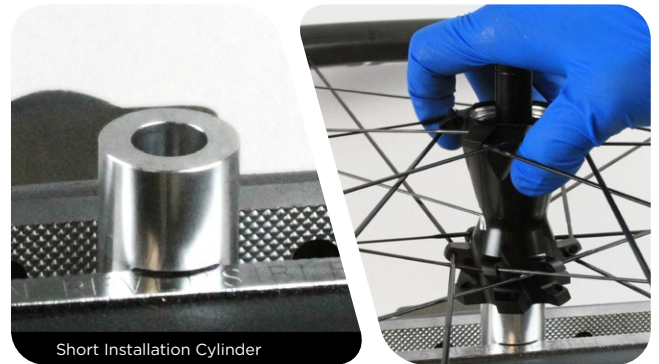
- 22** Insert the axle into the Ring Nut Installation Tool. Carefully turn the wheel clockwise to thread the ring nut into the drive side of the hub. Do not overtighten the ring nut.

### NOTICE

After the ring nut has engaged the threads inside the hub, you will need to raise the Ring Nut Installation Tool in the vise to prevent the vise from scratching the hub shell.



- 23** Install one of the Short Installation Cylinders into a vise. Install the disc brake end of the axle into the Short Installation Cylinder.



- 24** Place the rotor seal onto the Seal Installation Tool with the rubber seal facing the tool. Place the tool onto the axle with the rotor seal facing toward the hub.

### NOTICE

If the rotor seal shows any signs of damage, it must be replaced with a new rotor seal.



- 25** Place a Long Installation Tool onto the axle. Strike the Long Installation Tool with a soft face mallet until the rotor seal is seated in the hub shell.





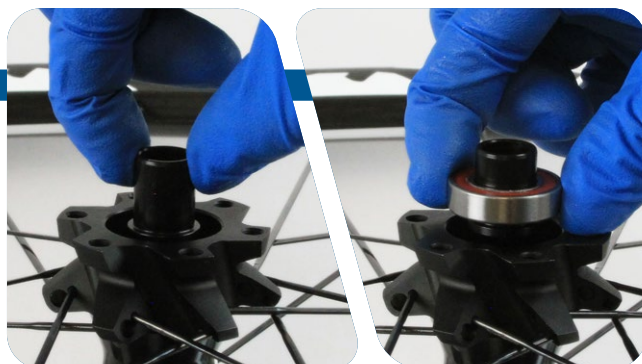
- 26** Install the Ring Nut Installation Tool in a vise. Install the drive side of the axle into the Ring Nut Installation tool and press down firmly to make sure that the teeth of the tool engage the teeth of the ring nut.



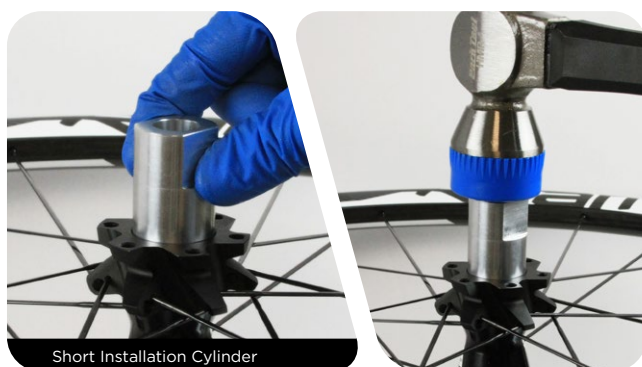
- 27** Pull the axle out of the hub about 2 cm. Install a new bearing onto the axle with the red seal facing away from the hub.

### NOTICE

You may need to remove the axle from the hub, install the bearing onto the axle, and then reinstall the axle into the hub and Short Installation Cylinder.



- 28** Install a Short Installation Cylinder onto the axle and bearing. Strike the Short Installation Cylinder with a soft face mallet until the bearing is firmly seated into the bearing pocket.



- 29** Check the axle for play by pushing and pulling it in the hub. If any play is detected, repeat step 28.





- 30** Apply a light layer of grease to the face of the non-drive side bearing. Use a rag or paper towel to remove any grease from the end of the axle.



- 31** Apply a very thin layer of **DT Special Grease** to the teeth of the ring nut.



- 32** Install the spacer onto the axle as far as possible.



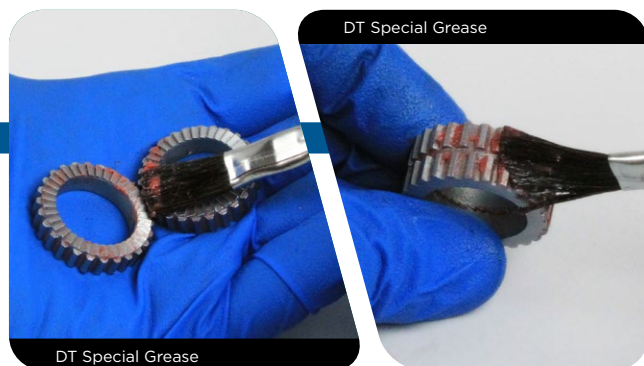
- 33** Install the spring onto the axle and over the spacer. The wide opening of the spring is toward the hub.



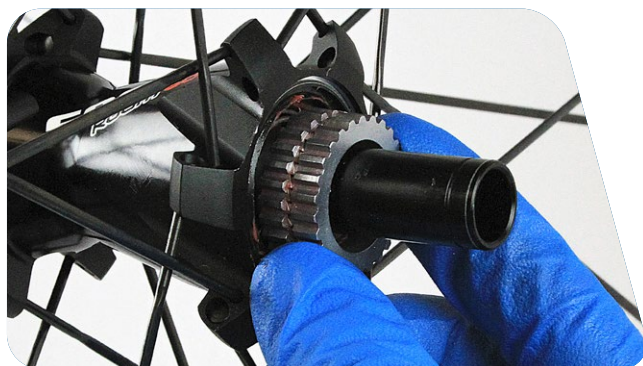
- 34** Clean both star ratchets and inspect for damage. If either star ratchet is damaged, the damaged part must be replaced. Apply a very thin layer of **DT Special Grease** to all surfaces of both star ratchets.

### NOTICE

Only use **DT Special Grease** on the star ratchets. Using any other grease, or applying too much **DT Special Grease** can prevent the ratchets from engaging. If the ratchets do not engage properly, clean them and reapply a thin layer of **DT Special Grease**.



- 35** Install the two star ratchets onto the axle.



- 36** Clean the driver body and install the spring into the driver body. The wide opening of the spring is against the driver body.

### NOTICE

Installation of the 9/10 speed driver body is the same as for XD driver body.



- 37** Install the driver body onto the axle. Firmly press the driver body against the hub to make sure the teeth of the driver body are engaged with the teeth of the star ratchets and ring nut.



**38** Apply a thin layer of grease to the driver body bearing. Use a rag or paper towel to remove any grease from the ends of the axle.

Press the end caps onto the hub by hand.

### **NOTICE**

Only use the end cap labeled "XD Compatible" when installing an XD driver body.



## Tubeless Rim Tape

We recommend that you have your SRAM wheels serviced by a qualified bicycle mechanic. Servicing SRAM products requires knowledge of bicycle components as well as the special parts and tools used for service.

For exploded diagram and part number information, please refer to the Spare Parts Catalog available on our web site at [www.sram.com](http://www.sram.com).

For order information, please contact your local SRAM distributor or dealer.

Information contained in this publication is subject to change at any time without prior notice. For the latest technical information, please visit our website at [sram.com](http://sram.com).

Your product's appearance may differ from the pictures/diagrams contained in this publication.

## Parts and Tools

- ROAM 50/60 = 26 mm width rim tape
- RAIL 50 = 28 mm width rim tape
- Nitrile gloves
- Apron
- Clean, lint-free rags
- Wheel truing stand
- Isopropyl alcohol
- Small flashlight
- Small knife
- Scissors

## Tubeless Rim Tape Installation

**1** Install the wheel into a truing stand. Remove any existing rim strips or rim tape from the rim. Remove the valve stem. Thoroughly clean the rim with isopropyl alcohol and a clean rag. Make sure that the rim is dry and free of alcohol. Spinning the wheel rapidly in the truing stand can help remove alcohol from the spoke holes.



**2** Apply the beginning section of tape between the two spoke holes that are 180 degrees opposite from the valve stem hole. Press 4-5 inches (10-13 cm) of tape into the channel of the tire bed.

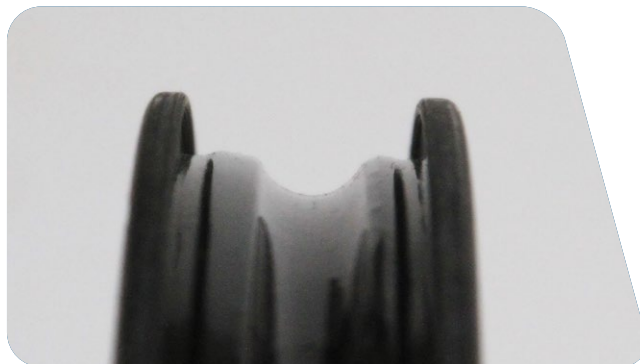




- 3** Apply tension to the tape by rotating the wheel away from you while rapidly "shaking" the tape from side to side about 2-3 inches (5-8 cm). This will seat the tape into the channel and keep it centered in the rim.

#### **NOTICE**

The tubless tape must be seated into the channel to create an adequate seal. If the tape is not seated into the channel, the tire may leak air.



- 4** Continue the process of rotating the wheel and shaking the tape side to side while keeping an even tension on the tape roll until the tape meets the beginning edge of tape from step 2. Overlap the beginning edge with another 12 inches (31 cm) of tape to the wheel.



- 5** Cut the tape. Use your fingers or a tire lever to press the leading edge of tape against the rim. This will help prevent sealant from getting under the tape.



## Valve Stem Installation

- 1 Shine a flashlight through the rim to illuminate the valve stem hole. Use a small knife to cut the tape from the valve stem hole.



- 2 Remove the nut and o-ring from the valve stem. Install the valve stem into rim.

Install o-ring onto the valve stem.

Install nut onto valve stem and o-ring, with the recessed area toward rim.

Press the valve stem into the channel and hand tighten the nut.



## Wheel Build & Spoke Replacement

### Replacement Parts

For part numbers, please refer to the SRAM Wheels Spare Parts List in the Service section of [www.sram.com](http://www.sram.com).

		Spoke Count	Lacing Pattern	Spoke Length 26	Spoke Length 27.5	Spoke Length 29	Final Spoke Tension
ROAM 60	Front Wheel	24	2 Cross	268 mm	280 mm	298 mm	110 kgf ± 10 kgf (1079 N ± 98 N) on Brake side
	Rear Wheel	24	2 Cross	268 mm	280 mm	298 mm	110 kgf ± 10 kgf (1079 N ± 98 N) on Drive side
ROAM 50	Front Wheel	24	2 Cross	270 mm	281 mm	300 mm	110 kgf ± 10 kgf (1079 N ± 98 N) on Brake side
	Rear Wheel	24	2 Cross	270 mm	281 mm	300 mm	110 kgf ± 10 kgf (1079 N ± 98 N) on Drive side
RAIL 50	Front Wheel	24	2 Cross	270 mm	281 mm	300 mm	110 kgf ± 10 kgf (1079 N ± 98 N) on Brake side
	Rear Wheel	24	2 Cross	270 mm	281 mm	300 mm	110 kgf ± 10 kgf (1079 N ± 98 N) on Drive side

ASIAN HEADQUARTERS  
SRAM Taiwan  
No. 1598-8 Chung Shan Road  
Shen Kang Hsiang, Taichung City  
Taiwan R.O.C.

WORLD HEADQUARTERS  
SRAM LLC  
1000 W. Fulton Market, 4th Floor  
Chicago, Illinois 60607  
USA

EUROPEAN HEADQUARTERS  
SRAM Europe  
Paasbosweg 14-16  
3862ZS Nijkerk  
The Netherlands