

Cognition V2 Hubs







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!

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Zipp Service

We recommend that you have your Zipp components serviced by a qualified bicycle mechanic. Servicing Zipp components requires the use of specialized tools. Failure to follow the procedures outlined in this service manual may cause damage to your component and void the warranty.

Visit www.zipp.com/support for the latest Zipp Spare Parts catalog and technical information. For order information, please contact your local Zipp distributor or dealer.

Information contained in this publication is subject to change at any time without prior notice.

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



For recycling and environmental compliance information, please visit: https://www.sram.com/en/company/about/environmental-policy-and-recycling.

Part Preparation

Remove the component from the bicycle before service.

Disconnect and remove the remote cable or hydraulic hose from the fork or rear shock, if applicable. For additional information about RockShox remotes, user manuals are available at www.sram.com/service.

Clean the exterior of the product with mild soap and water to avoid contamination of internal sealing part surfaces.

Service Procedures

The following procedures should be performed throughout service, unless otherwise specified.

Clean the part with isopropyl alcohol and a clean, lint-free shop towel.

NOTICE

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



Recommended Service Intervals

Regular service is required to keep your Zipp product working at peak performance. Follow this maintenance schedule and install the service parts included in each service kit that corresponds with the Service Hours Interval recommendation below. For spare part kit contents and details, refer to the Zipp Spare Parts Catalog at www.sram.com/service.

| Service Hours Interval | Maintenance | | | | | | |
|---------------------------------------|--|--|--|--|--|--|--|
| As needed | Replace the hub bearings. | Perform the procedures in ' Front Hub Service' and/or ' Rear Hub Service ' as required. | | | | | |
| Every 100 Hours or 3000 km/1865 mi | Clean and relubricate the rear hub clutch mechanism. | Perform the procedures in ' Rear Hub Clutch Removal ' and ' Rear Hub Clutch Installation .' Lubricate only with Zipp Cognition Oil (00.2018.036.000) | | | | | |

Warranty and Trademark

For SRAM Warranty information, visit: www.sram.com/warranty.

For SRAM Trademark information, visit: www.sram.com/website-terms-of-use.

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).

Parts, Tools, and Supplies

Parts

- Zipp Cognition 6903/61903 hub bearing (x2)
- Zipp Cognition driver (optional)
- Zipp Cognition 6803/61803 driver bearing (x2) (optional)
- Safety and Protection Supplies
- Apron
- Clean, lint-free shop towels
- Nitrile gloves
- Safety glasses

Lubricants and Fluids

- Isopropyl alcohol
- Zipp Cognition or Klüber Staburags NBU30 grease
- Zipp Cognition Oil or Phil Bio-Lube and small oil syringe

Zipp/SRAM Tools

 Zipp 61903 Bearing Press Tool (x2) or

Zipp 61903 Bearing Press Tool (x1) *and* SRAM 6903 Bearing Press Tool (x1)

Bicycle Tools

- Axle and spindle vise inserts Park Tool AV-4 or AV-5
- Slide hammer bearing puller set
- 17 mm slotted attachment
- Wheels Manufacturing Press-1 Sealed Bearing Press Kit or similar
 - 6903 30x17 bearing press adapters (x2)
 - 6803 26x17 bearing press adapters (x2) (optional)
 - 6002 32x15 bearing press adapter (optional)
 - T-handle threaded bearing press

Common Tools

- Bench vise
- 3 mm hex wrench
- Grease brush
- Pick
- Rubber or plastic mallet
- Vise soft jaws (aluminum)

SAFETY INSTRUCTIONS

Always wear nitrile gloves when working with bicycle lubricants.



Rear Hub End Caps

| | | | | | DRIVE SIDE | | | NON DRIVE SIDE | | |
|-----------|----------|-------------|-------|--|---|--------------------------|--|---|--------------------------|-----------------|
| Hub | Variants | | | Current Identification Text On End Cap | Previous Identification Text On End Cap | Spare Part Kit Number | Current Identification Text On End Cap | Previous Identification Text On End Cap | Spare Part Kit Number | |
| | tion | QR | RIM | 11SPD XDR | 127-000 | 10x(130/135) DS XD(R) | 11.2018.065.008 | 178-000 | 10x130 NDS | 11.2018.065.008 |
| Cognition | | | CAMPA | 161-000 | 10x135 DS C | 11.2018.033.003 | | | 11.2018.033.001 | |
| V2 REAR | 12 x 142 | 12 x 142 CL | 11SPD | 151-030 | 12x(142/148) DS XD(R) | 11.2018.065.007 | 154-010 | 12x142 NDS CL | 11.2018.065.007 | |
| | | | XDR | | | | | | | |
| | | | | CAMPA | 151-050 | 12x142 DS C | 11.2018.049.040 | | | 11.2018.049.040 |

Rear Hub Disassembly

Procedures are the same for rim brake and disc brake rear hubs. Disc brake hub pictured.

Insert the Park Tool AV-4 or AV-5 Axle and Spindle Vise Insert tool into a vise. Clamp the non-drive side end cap into the vise insert tool and pull up on the wheel/hub to remove the end cap.





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Clamp the drive side end cap into the vise insert tool and pull up on the wheel/hub to remove the end cap.





Pull the driver assembly from the hub and axle.

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The procedure for driver removal and installation is the same for each type of driver (SRAM 10/11 Speed, SRAM XDR, and Campagnolo). The SRAM XDR driver is pictured.



NOTICE

Bearing removal causes permanent damage to the bearings. Do not reinstall the bearings.

Use a plastic mallet to gently tap the axle on the non-drive side of the hub to remove the axle from the hub shell. Pull the axle and drive side bearing out of the drive side of the hub.

If the drive side bearing was not removed with the axle, it must be removed with the slide hammer bearing puller, shown in step 7.







The wave spring on the non-drive side end of the axle will be dislodged when the axle is removed. Remove the wave spring from the non-drive side hub shell.



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Place the axle in between flat aluminum vise soft jaws, drive side down, with the bearing resting on top of the soft jaws. Make sure the axle bearing step does not contact the soft jaws. Use a plastic mallet to gently tap on the top of the non-drive end of the axle until it is dislodged from the bearing. Discard the bearing.

Spray isopropyl alcohol onto the axle and clean the axle with a shop towel.

NOTICE

To avoid damage to the axle, do not allow the axle to contact the vise soft jaws. If the axle bearing step is damaged, the axle must be replaced.





If the drive side bearing was not removed with the axle, remove the drive side bearing from hub shell with a slide hammer bearing puller.

Insert the 17 mm slotted bearing puller attachment through the 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.





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Thread the shaft of the bearing puller into the slotted attachment. While holding the hub securely, forcefully pull back on the slide hammer to remove the bearing from the drive side of the hub shell.

Remove the bearing from the slotted attachment.

Discard the bearing.





Insert the 17 mm slotted bearing puller 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.



17 mm Slotted Bearing Pulle

Thread the shaft of the bearing puller into the slotted attachment. While 10 holding the hub securely, 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 and discard the bearing.





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Use a 3 mm hex wrench to gently pry the clutch seal cap free from the hub shell. Use your fingers to remove the clutch seal cap.

NOTICE

Do not damage the clutch seal cap during removal. If the clutch seal cap is damaged it must be replaced.

Use your fingers to remove the o-ring. Spray isopropyl alcohol onto the clutch seal cap and o-ring and wipe them with a shop towel. Install the o-ring back onto the clutch seal cap.









Push down on one side of the clutch assembly from the hub shell to raise the opposite side. Use your fingers to remove the driver ratchet from the hub shell.













NOTICE

Do not disassemble the plastic retainer.

If the spring becomes disloged from the plastic retainer, gently push the spring back into place and make sure the plastic snaps are connected.



NOTICE

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



Press the spring assembly between two shop towels to remove old Cognition oil from the foam ring.

NOTICE

Do not apply any type of cleaning product to the foam ring.





Clean the hub shell ratchet and the driver ratchet with isopropyl alcohol and a clean shop towel.





Spray isopropyl alcohol in the rear hub bearing bores and clean the hub with a shop towel.



Rear Hub Bearing Installation

Use only Zipp Cognition replacement bearings in Zipp Cognition hubs.



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Place the hub on flat surface, non-drive side up. Insert a new Zipp Cognition 6903/61903 hub bearing into the non-drive side of the hub shell, with the **black** seal facing outward.

Note: Ceramic bearings have **blue** seals on both sides of the bearing; installation orientation is not important.

Insert the threaded rod through the bearing on the non-drive side of

the hub shell. Slide a second 6903 30x17 tool onto the threaded rod.

Thread the Press Tool handle onto the threaded rod.

Insert a 6903 30x17 tool onto the bearing.





6903/61903 Hub Bearing

6903 30x17



Turn the handle clockwise to press the bearing into the hub until it is hand-tight.

Do not overtighten the bearing.

Remove the tools.

NOTICE

To prevent damage when pressing the bearing into the hub, make sure that the bearing press tools contact both the inner and outer bearing races or bearing bores and not the hub shell.



Place the drive side end of the axle on a flat surface. Install a new Zipp Cognition 6903/61903 hub bearing onto the non-drive side of the axle, **black** seal side first. Slide the bearing to the drive side of the axle, to the bearing step until it stops.

Note: Ceramic bearings have **blue** seals on both sides of the bearing; installation orientation is not important.



Zipp Cognition 6903/61903 Hub Bearing





Slide the Zipp 61903 bearing press tool over the non-drive side of the axle and rest it flat on the bearing. Use a plastic mallet to gently tap the Zipp bearing press tool until the bearing is seated onto the axle. Stop when the bearing is flush against the axle bearing step.





Insert the non-drive side of the axle into the drive side of the hub, through the non-drive side bearing. Position the drive side bearing into the drive side hub bearing bore.



Place a SRAM 6903 or Zipp 61903 bearing press tool on a flat table with the **non-grooved end** of the tool facing up. Position the non-drive side of the hub on the bearing press tool.

Insert another Zipp 61903 bearing press tool, **grooved end first**, onto the drive side axle.

NOTICE

The grooved end of the Zipp 61903 bearing press tool has an internally tapered interface that fits over the driver axle bearing step to prevent damage to the axle.



SRAM 6903 or Zipp 61903 Bearing Press Tool



Zipp 61903 Bearing Press Tool

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Gently tap the Zipp 61903 bearing press tool with a plastic mallet until the drive side bearing is seated into the hub shell.





Rear Hub Clutch Installation



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Install the spring assembly in to the drive side of the rear hub with the white surface facing down.





Align the three large tabs on the Hub Shell Ratchet with the notches in the rear hub, and install the Hub Shell Ratchet with the angled ratchet notches facing up.





Install the Driver Ratchet on top of the Hub Shell Ratchet with the circular inner metal ring facing down. Gently press down on the Driver Ratchet to align the clutch teeth with the hub teeth.





Use a small syringe to apply approximately 1 mL of Zipp Cognition oil or Phil Bio-Lube onto the clutch assembly, distributed evenly around the clutch.

Do not apply grease to the new clutch assembly.





NOTICE

Zipp recommends replacing the entire driver body if the bearings are worn or any part is damaged. For part numbers, refer to the Zipp Spare Parts Catalog in the Support section of <u>www.zipp.com</u>.

Driver Installation



Apply Zipp Cognition or Klüber Staburags NBU30 grease to the drive side of the rear axle. Wipe away any excess grease with a shop towel.

NOTICE

Do not apply grease to the clutch or bearing.

If a brush is used to apply grease, confirm there are no loose bristles in the grease or on the part.



Cognition / Klüber Staburags NBU30 Grease

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Clean the driver body with isopropyl alcohol and a clean shop towel.

NOTICE

Do not apply isopropyl alcohol to the bearing.



Slide the driver assembly onto the drive side axle. Align the driver teeth with the clutch teeth, and press the driver into the hub shell until it is seated. Press down and rotate the driver to check engagement.

The procedure for driver installation is the same for each type of driver (SRAM 10/11 speed, SRAM XDR, and Campagnolo). The SRAM XDR driver body is pictured.



Rear Hub End Cap Installation

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Install the wave spring onto the non-drive side end of the axle. Press the wave spring against the bearing.



Apply grease to the following locations on the drive side and non-drive side axle end:

- Axle front surface (a)
- Axle radial surface (b)
- Bearing front face across bearing seal, inner- and outer ring (c)

NOTICE

If a brush is used to apply grease, confirm there are no loose bristles in the grease or on the part.



Cognition / Klüber Staburags NBU30 Grease

Install the end caps by pressing them onto the axle by hand until they snap securely into place. Wipe away any excess grease from the hub and end cap.

NOTICE

Ensure the o-ring is in the groove on the internal surface of the end cap before installing the end caps. Improperly installed seals may result in hub drag.

This concludes service for the rear Zipp Cognition hub.









NOTICE

Service of an 11 speed driver is identical to the XDR driver service shown below.

Insert the 17 mm Bearing Puller slotted attachment through the outboard bearing. Align the slotted attachment with the bottom of the bearing, and expand it inside the bearing.

Do not over tighten the slotted attachment. For more detailed assembly and usage, see the bearing puller manufacturer's instructions.

Thread the rod of the bearing puller into the attachment. Grip the slide hammer and forcefully pull away from the slotted attachment to remove the bearing from the driver body.





17 mm Slotted Attachment

Insert the 17 mm Bearing Puller slotted attachment through the inboard bearing. Align the slotted attachment with the bottom of the bearing and expand it inside the bearing.

Do not over tighten the slotted attachment. For more detailed assembly and usage, see the bearing puller manufacturer's instructions.

Thread the rod of the bearing puller into the attachment. Grip the slide hammer and forcefully pull away from the slotted attachment to remove the bearing from the driver body.





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Clean the driver bearing bores with shop towel and cotton swabs.



Place the driver on flat surface, outboard side up. Insert a new Zipp 6803/61803 driver bearing into the outboard side of the driver body, with the **black** seal facing outward.

Note: Ceramic bearings have blue seals on both sides of the bearing; installation orientation is not important.

Insert a 6803 26x17 tool onto the bearing.





6803/61803 Driver Bearing

6803 26x17



6

Insert the threaded rod through the inboard side of the driver body.

Slide a 6002 32x15 tool onto the threaded rod.

Thread the bearing press handle onto the threaded rod.

Turn the handle clockwise to press the bearing into the outboard bearing bore until it is hand-tight.

Do not overtighten the bearing.

Remove the bearing press tool.

with the **black** seal facing outward.

installation orientation is not important. Insert a 6803 26x17 tool onto the bearing.

NOTICE

To prevent damage when pressing the bearing into the driver body, make sure that the bearing press tools contact both the inner and outer bearing races or bearing bores and not the driver body.











6803/61803 Driver Bearing

6803 26x17

Insert the threaded rod through the inboard side of the driver body. Slide another 6803 26x17 tool onto the threaded rod.

Thread the bearing press handle onto the threaded rod.

Turn the handle clockwise to press the bearing into the outboard bearing bore until it is hand-tight.

Do not overtighten the bearing.

Remove the bearing press tool.

NOTICE

To prevent damage when pressing the bearing into the driver body, make sure that the bearing press tools contact both the inner and outer bearing races or bearing bores and not the driver body.





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).

Tools and Supplies Needed for Service

Parts

- Zipp Cognition 6903/61903 hub bearing (x2)
- Zipp Cognition front axle wave spring (optional)

Safety and Protection Supplies

- Apron
- Clean, lint-free shop towels
- Nitrile gloves
- Safety glasses

Lubricants and Fluids

- Isopropyl alcohol
- Zipp Cognition or Klüber Staburags NBU30 grease

Bicycle Tools

- Axle and Spindle Vise Inserts Park Tool AV-4 or AV-5
- Blind Hole Bearing Puller Set
- 17 mm slotted attachment
- Wheels Manufacturing Press-1 Sealed Bearing Press Kit or similar
 - 6903/61903 bearing press adapters (x2)
 - T-handle threaded bearing press

Common Tools

Bench vise

- Flat blade screwdriver
- Grease brush
- Pick
- Rubber or plastic mallet

For part numbers, refer to the Zipp Spare Parts Catalog in the Support section of www.zipp.com.

SAFETY INSTRUCTIONS

Always wear nitrile gloves when working with bicycle lubricants.



Front Rim Brake Hub Exploded View



Front Hub End Caps

| Cognition V2 | | QR | RIM | - | 122-000 | - | 11.2018.033.000 | 122-000 | _ | 11.2018.033.000 |
|-----------------|----------|----------|-----|---------|----------------|----------------------|-----------------|--------------------|-----------------|-----------------|
| | FRONT | QR | | _ | 149-000 | 9x100 DS DISC | 11.2018.048.000 | 150-010 | 9x100 NDS CL | 11.2018.048.000 |
| | 12 x 100 | CL | _ | 165-000 | 12x100 DS DISC | 11.2018.049.000 | 154-000 | 12x(100/135)NDS CL | 11.2018.049.000 | |
| | | 15 x 100 | | - | 165-010 | 15x(100&110) DS DISC | 11.2018.050.000 | 154-020 | 15x100 NDS CL | 11.2018.050.000 |

Front Hub Disassembly

Procedures are the same for rim brake and disc brake front hubs. Disc brake hub pictured.

NOTICE

Bearing removal causes permanent damage to the bearings. Do not reinstall the bearings.

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Insert the Park Tool AV-4 or AV-5 Axle and Spindle Vise Insert tool into a vise. Clamp the non-drive side end cap into the vise insert tool and pull up on the wheel/hub to remove the end cap.





AV-4 / AV-5

Use a plastic mallet to gently tap the exposed axle end on the nondrive side of the hub to dislodge the axle from the hub bearings.

Use your thumb to push the axle through the hub shell and remove the wave spring from the non drive side hub shell.

Remove the front axle from the drive side of the hub. Use your fingers to remove the end cap from the drive side of the axle.











Spray isopropyl alcohol onto the axle and clean the axle with a shop towel.

NOTICE

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



4

5

Insert the 17 mm slotted bearing puller attachment through either hub 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 over tighten the slotted attachment. For more detailed assembly and usage information, consult your bearing puller's manufacturer's instructions.



17 mm Slotted Bearing Puller

Thread the shaft of the bearing puller into the slotted attachment. While holding the hub securely, forcefully pull back on the slide hammer to remove the bearing from the drive side of the hub shell.

Remove the bearing from the slotted attachment.

Discard the bearing.



Slide Hammer Bearing Puller



6 Insert the 17 mm slotted bearing puller attachment through either hub 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 over tighten the slotted attachment. For more detailed assembly and usage information, consult your bearing puller's manufacturer's instructions.





Thread the shaft of the bearing puller into the slotted attachment. While holding the hub securely, forcefully pull back on the slide hammer to remove the bearing from the drive side of the hub shell.

Remove the bearing from the slotted attachment. Discard the bearing.





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Spray isopropyl alcohol in the front hub bearing bores and clean them with a shop towel.





Isopropyl Alcohol

Front Hub Bearing Installation

Use only Zipp Cognition replacement bearings in Zipp Cognition hubs.



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Place the hub on flat surface, non-drive side up. Insert a new Zipp Cognition 6903/61903 hub bearing into the non-drive side of the hub shell, with the **black** seal facing outward.

Note: Ceramic bearings have **blue** seals on both sides of the bearing; installation orientation is not important.

Insert a 6903 30x17 tool onto the bearing.





6903/61903 Hub Bearing

6903 30x17

Insert the threaded rod through the bearing on the non-drive side of the hub shell. Slide a second 6903 30x17 tool onto the threaded rod.

Thread the Press Tool handle onto the threaded rod.





Turn the handle clockwise to press the bearing into the hub until it is hand-tight.

Do not overtighten the bearing.

black seal facing outward.

installation orientation is not important. Insert a 6903 30x17 tool onto the bearing.

Remove the tools.

NOTICE

To prevent damage when pressing the bearing into the hub, make sure that the bearing press tools contact both the inner and outer bearing races or bearing bores and not the hub shell.

Place the hub on flat surface, drive side up. Insert a new Zipp Cognition 6903/61903 hub bearing into the drive side of the hub shell, with the

Note: Ceramic bearings have blue seals on both sides of the bearing;





6903 30x17

6903/61903 Hub Bearing

6903 30x17



Insert the threaded rod through the bearing on the drive side of the hub shell. Slide a second 6903 30x17 tool onto the threaded rod.

Thread the Press Tool handle onto the threaded rod.





Turn the handle clockwise to press the bearing into the hub until it is hand-tight.

Do not overtighten the bearing.

Remove the tools.

NOTICE

To prevent damage when pressing the bearing into the hub, make sure that the bearing press tools contact both the inner and outer bearing races or bearing bores and not the hub shell.



Front Hub Axle and End Cap Installation

Insert the non-drive side end of the axle into drive side of the hub, through the drive side bearing, through the hub, and through the non-drive side bearing. Press the axle into the hub bearing with your thumb until the axle bearing step fits flush into the bearing.



2

Install the wave spring onto the non-drive side end of the axle. Press the wave spring against the bearing.



Apply grease to the following locations on the drive side and non-drive side axle end:

- Axle front surface (a)
- Axle radial surface (b)
- Bearing front face across bearing seal, inner- and outer ring (c)



Cognition / Klüber Staburags NBU30 Grease

5

4

Install the end caps by pressing them onto the axle by hand until they snap securely into place. Wipe away any excess grease from the hub and end cap.

NOTICE

Ensure the o-ring is in the groove on the internal surface of the end cap before installing the end caps. Improperly installed seals may result in hub drag.



This concludes service for the front Zipp Cognition hub.



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