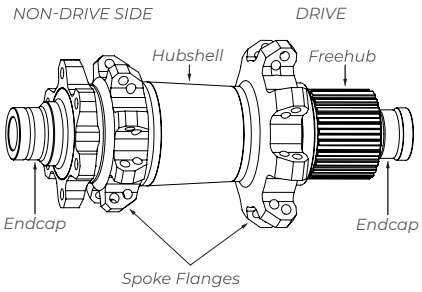
INDUSTRY NINE HYDRA MTN SERVICE GUIDE

HYDRA MOUNTAIN REAR HUB SERVICE

Industry Nine products are designed to keep you in the saddle and out of the service queue.
Regular service and maintenance is simple and can be performed with basic tools readily available to the home or shop mechanic - ***no proprietary tools are required.***
To properly service your Industry Nine Hydra series hubs, please follow the steps below.
For more information: Call 828-210-5113, email service@industrynine.com or visit industrynine.com/support

ANATOMY OF A HUB



TOOLS

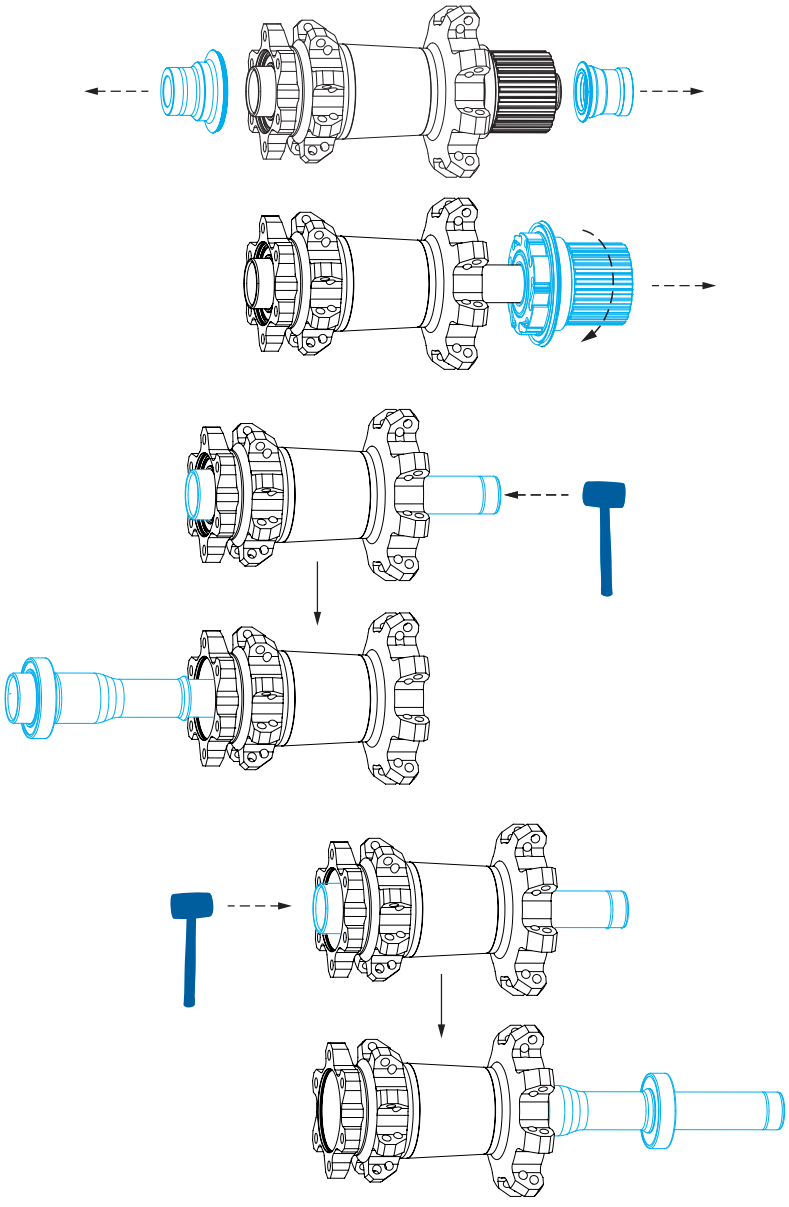
RUBBER / PLASTIC MALLET

BEARING LAYOUT CHART

HUBSHELL	DRIVE SIDE	NON-DRIVE SIDE
6 Bolt Mountain Front	1 x 61804	1 x 61804
6 Bolt Mountain Rear	1 x 15307	1 x 61804
Center Lock Mountain Front	1 x 18307	1 x 18307
Center Lock Mountain Rear	1 x 15307	1 x 61903
Lefty Front Mountain	1 x 61805	1 x 61902

FREEHUB	INBOARD	OUTBOARD
Hydra XD + HG	1 x 152610	1 x 15267
Micro Spline	1 x 152610	2 x 6802

PRO TIPS: *If you are having trouble getting the endcaps off, a (non-marring) soft jawed vice or soft jawed pliers can be used for removal.**



1.1 Rear Hub Disassembly - To disassemble your torch hubs you need to first remove the endcaps from the axle. The endcaps are held in place with a rubber o-ring seated in the endcap. endcaps do not require tools for removal.*

1.2 Freehub Removal - Once the endcaps are removed, the freehub can be pulled off by hand. Hold the wheel with the freehub facing down, as it disengages from the drivering. Rotate the wheel counterclockwise while gently pulling outward.

1.3 Rear Hub Axle + Bearing Removal - With both endcaps and the freehub are removed you will be left with an axle that is exposed on both sides.

Tap with a mallet from either side to dislodge the bearing and axle from the opposite side. The axle has shoulders that contact the inner race of the bearing, and will drive the bearing out of the hubshell. The order in which you remove the bearings does not matter.

Reinsert the axle and use it to drive out the remaining bearing in the same manner you removed the first. The remaining bearing can also be removed with a blind bearing puller or carefully with a drift/punch and a mallet.

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PRO TIPS:

- **Reference Bearing Layout Chart for proper bearing size by hubshell type.*
- *Note grey side of bearing is designed to face outward from the product.*
- *To re-assemble, follow reverse order from disassembly. Take care to put all bearings in as straight as possible.*
- *You can install the bearings with a threaded rod bearing press, an arbor press, or a vice may be used to press the bearings in evenly and without impact.*

TOOLS

BEARING PRESS

BEARING LAYOUT CHART

HUBSHELL	DRIVE SIDE	NON-DRIVE SIDE
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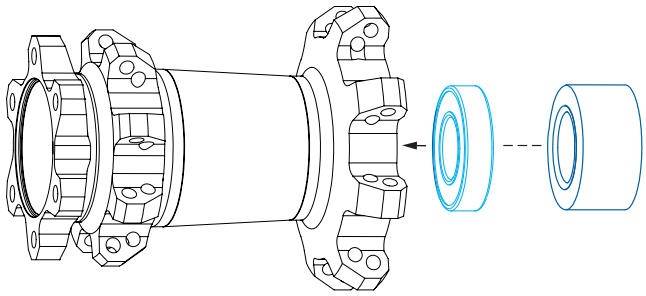
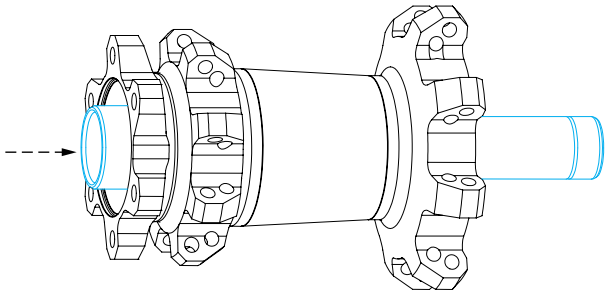
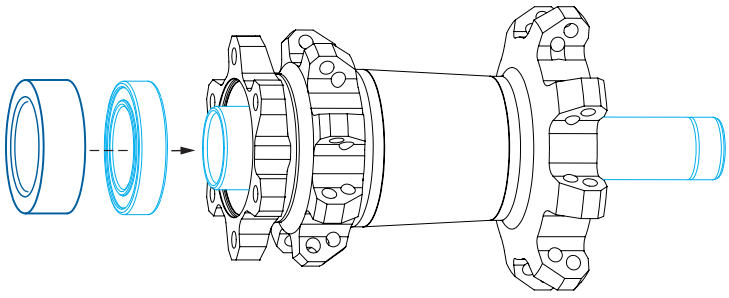


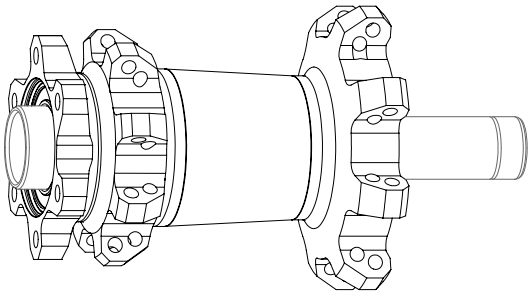
1.4 **Rear Hub Assembly -** Start by pressing the drive side bearing into the drive side of the hub using a bearing press.



After the non-drive side bearing has been pressed in, insert the hub's axle through from the NON-DRIVE side of the hub.



Press the non-drive side bearing over the end of the axle, into the NON-DRIVE side of the hubshell.



This will leave you with a hubshell that has an axle held captive by the two bearings.*

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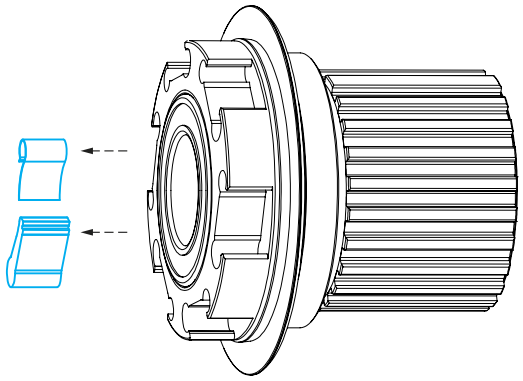
HYDRA MOUNTAIN REAR HUB SERVICE

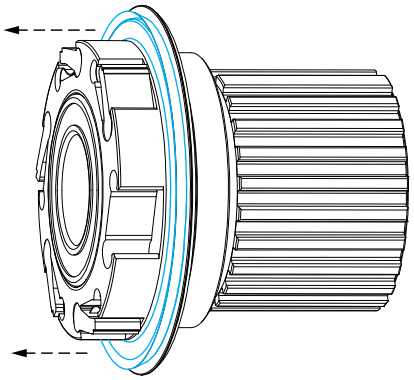
PRO TIPS:

• Try to maintain perpendicularly to the bearing bore when removing bearings.



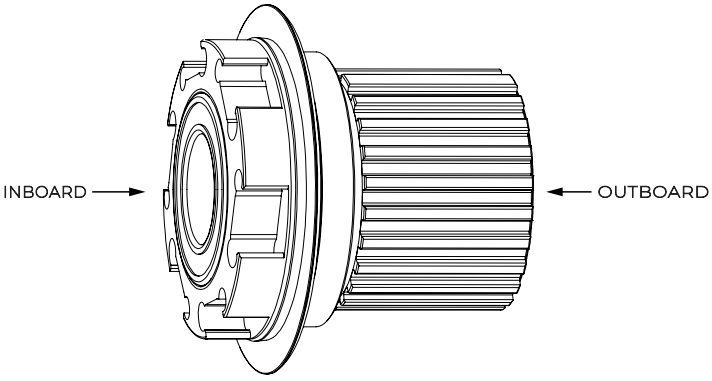
2.1 Freehub Disassembly + Service -

Freehub body components are easily removed by hand. The pawls and springs slide out of the pawl and spring pockets.



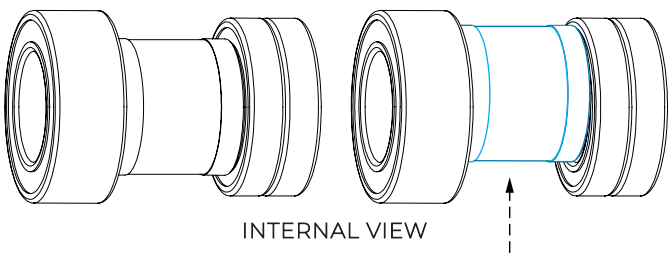
2.2 Freehub Seal Access -

This step is typically unnecessary in most service situations. Once the pawls are removed you can then access and service the freehub seal if needed. The freehub seal can be lifted from its seat with gentle pressure.



2.3 Freehub Bearing Removal -

Once the drive components are removed from the freehub shell there will be **1 inboard and 1 or 2 outboard** bearings (depending on the freehub type) with a cylindrical spacer between them. The cylindrical spacer can be shifted out of the way to access the inner race.



Careful removal of one of these bearings (the order doesn't matter) with a blind bearing puller or tapped out with a drift or a punch will remove the bearing, allowing the spacer to be withdrawn. The remaining bearing should be removed in the same manner.

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HYDRA MOUNTAIN REAR HUB SERVICE

PRO TIPS:

- **Reference Bearing Layout Chart for proper bearing size by hubshell type.*
- *Note grey side of bearing is designed to face outward from the product.*
- *To re-assemble, follow reverse order from disassembly. Take care to put all bearings in as straight as possible.*
- *You can install the bearings with a threaded rod bearing press, an arbor press, or a vice may be used to press the bearings in evenly and without impact.*
- *If there is additional drag found after assembly, it might be a result of an improper seal installation.*

TOOLS

BEARING PRESS

BEARING LAYOUT CHART

HUBSHELL	DRIVE SIDE	NON-DRIVE SIDE
6 Bolt Mountain Front	1 x 61804	1 x 61804
6 Bolt Mountain Rear	1 x 15307	1 x 61804
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Hydra XD + HG	1 x 152610	1 x 15267
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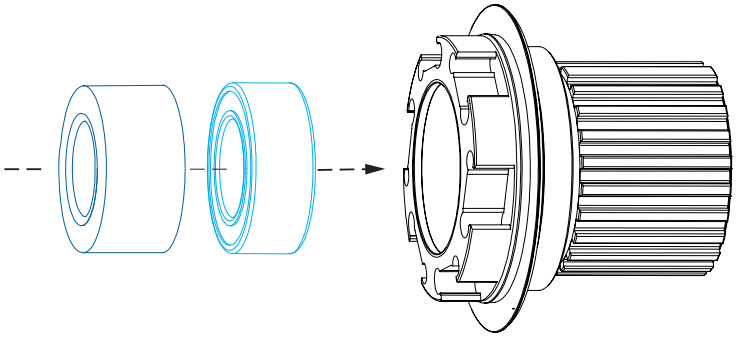
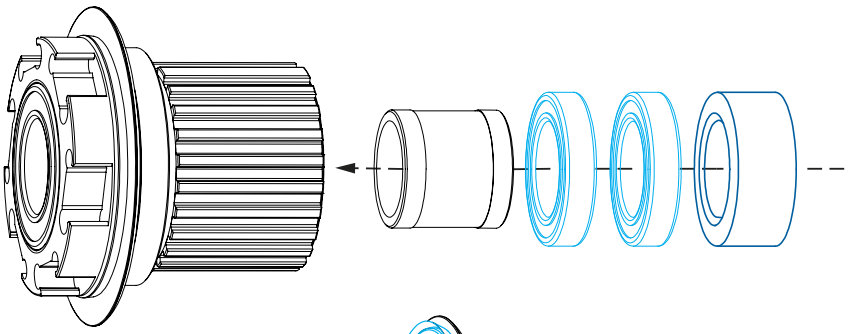


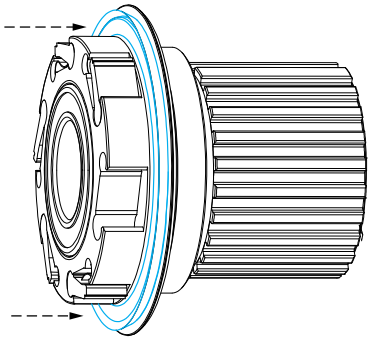
4.1 Inboard Freehub Bearing Assembly

Start by pressing the inboard double row bearing into the inboard side of the freehub using a bearing press.



4.2 Outboard Freehub Bearing Assembly -

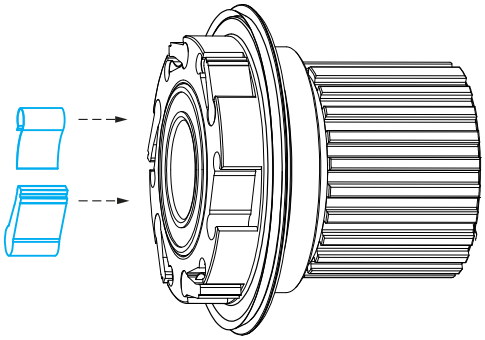
Place the cylindrical spacer in between the two bearings. Press the outboard side bearing into the outboard side of the freehub.



4.3 Freehub Seal -

Before installing the freehub's pawls you will need to have the freehub's seal in place.

This rubber seal can be pressed on by hand, make sure that there is no gap between it and the flange on the freehub.



4.4 Spring and Pawl Assembly -

The pawls and springs slide into the pawl and spring pockets. Insert spring first, depress spring with pick to insert pawl.

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HYDRA MOUNTAIN REAR HUB SERVICE

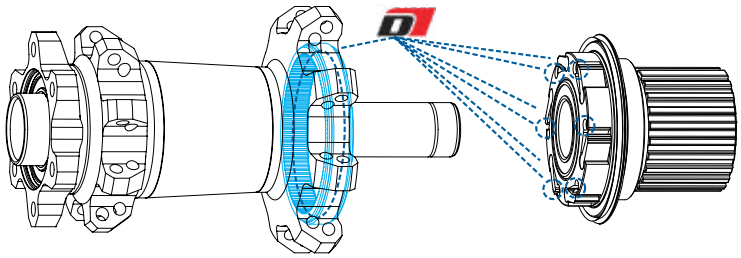
PRO TIPS:

• Apply grease to drivering and pawls to quiet the freehub sound.

• Apply oil to drivering and pawls to increase the freehub sound.

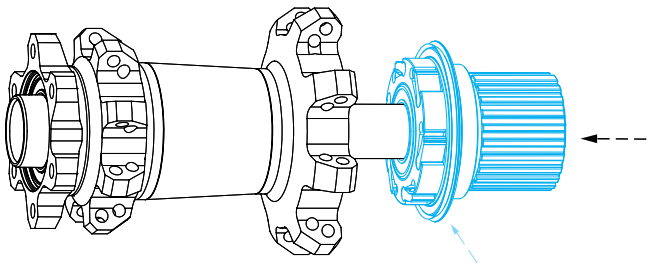
TOOLS

DUMONDE TECH FREEHUB
GREASE + OIL

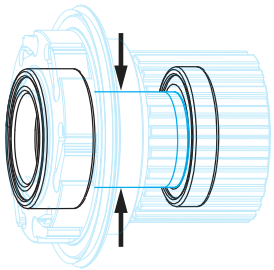


4.3 Freehub Installation on Hubshell

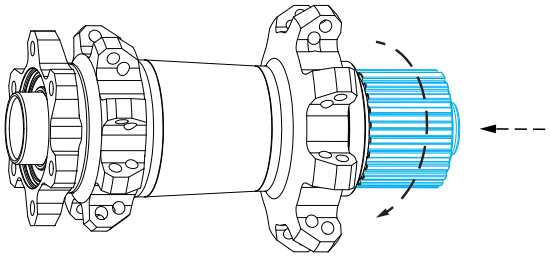
Apply a few drops of Dumonde Tech freehub grease to the drivering and pawls. Apply a drop of oil to the freehub seal.



Push the freehub onto the axle. Be sure that the freehub's inner spacer is centered, then slide the freehub over the axle onto the rear hub's drive side.



You will need to center the cylindrical spacer with your finger to in order for it to slide onto the axle.



Once the freehub makes contact with the drivering gently press the freehub onto the hub while twisting it counter-clockwise to engage the pawls into the drivering.

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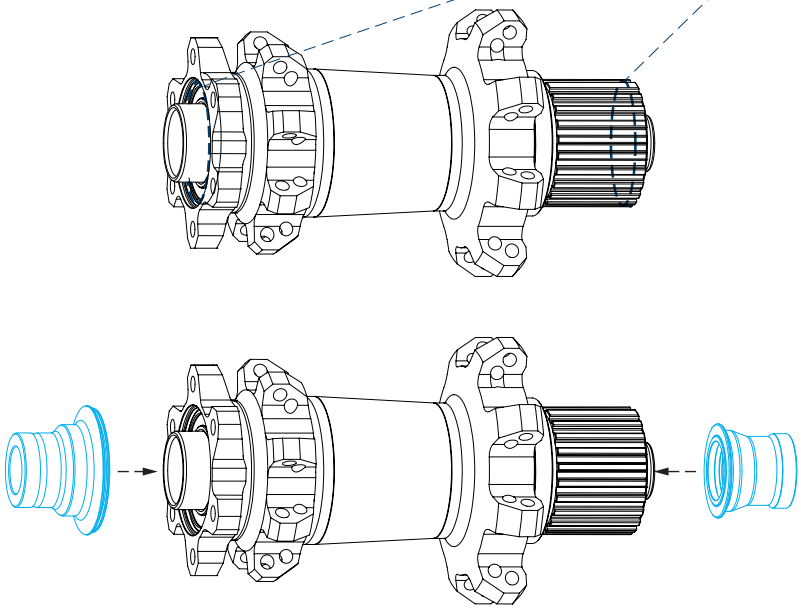
HYDRA MOUNTAIN REAR + FRONT HUB SERVICE

TOOLS

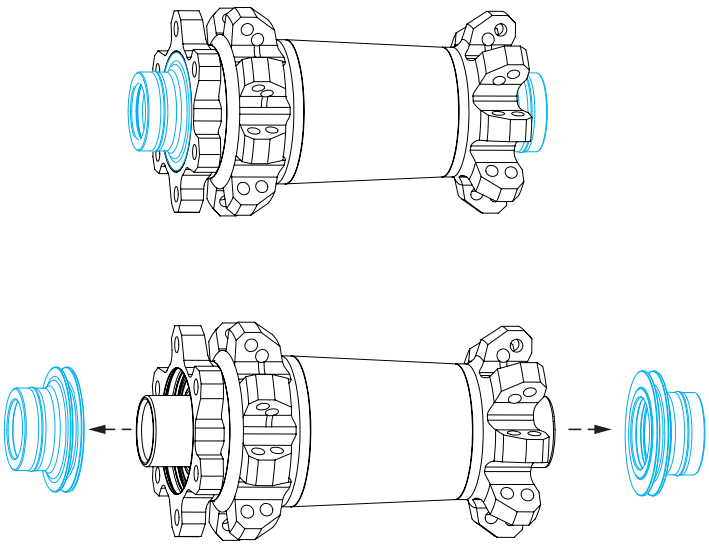
MARINE GREASE



5.1 **Endcaps + Final Rear Hub Assembly -** With the bearings, axle, and freehub installed you can now install the endcaps onto the axle to have a fully functional hub.

Put a film of marine grade (preferably) or other waterproof grease onto the front face of the bearing seal before installing.

When you push the endcap on, grease may get pushed out of the edges. The marine grease, creates a membrane that will help keep your bearings from contamination that could reduce bearing life.



6.1 **Front Hub Disassembly -** The front hub consists of a cylindrical axle spacer held in place by two bearings and two endcaps pressed onto each side.

The front hub's endcaps are held in place with an o-ring seated in the endcap.

The endcaps can be removed with a light tug. If more force is needed, protect the end cap with an axle vice or shop rag and pull off with a vice or pliers. Be careful not to damage the face that makes contact with your fork!

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HYDRA MOUNTAIN FRONT HUB SERVICE

PRO TIPS:

- **Reference Bearing Layout Chart for proper bearing size by hubshell type.*
- *Note grey side of bearing is designed to face outward from the product.*
- *To re-assemble, follow reverse order from disassembly. Take care to put all bearings in as straight as possible.*
- *You can install the bearings with a threaded rod bearing press, an arbor press, or a vice may be used to press the bearings in evenly and without impact.*

TOOLS

BEARING PRESS

BEARING LAYOUT CHART

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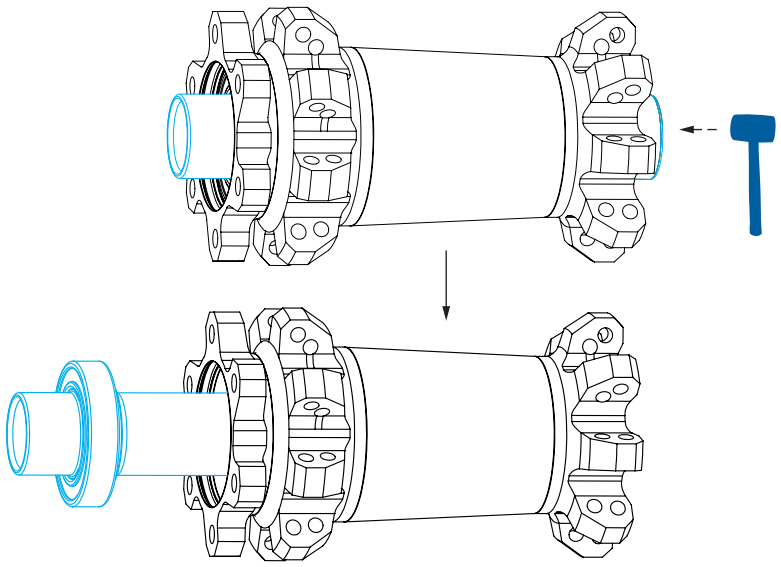
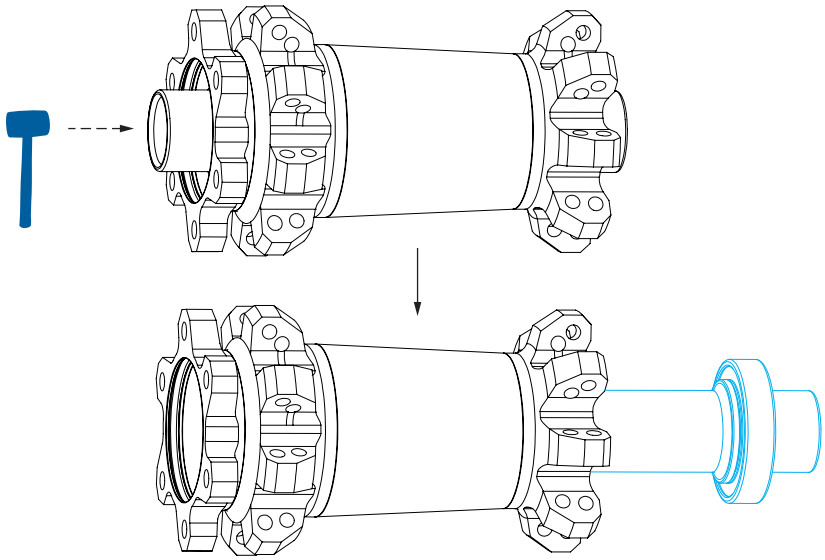


6.2 Front Hub Bearing Removal -

With both endcaps removed you will be left with an axle that is exposed on both sides.

Tap with a mallet from either side to dislodge the bearing and axle from the opposite side. The axle has shoulders that contact the inner race of the bearing, and will drive the bearing out of the hubshell. The order in which you remove the bearings does not matter.



Reinsert the axle and use it to drive out the remaining bearing in the same manner you removed the first. The remaining bearing can also be removed with a blind bearing puller or carefully with a drift/punch and a mallet.

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HYDRA MOUNTAIN FRONT HUB SERVICE

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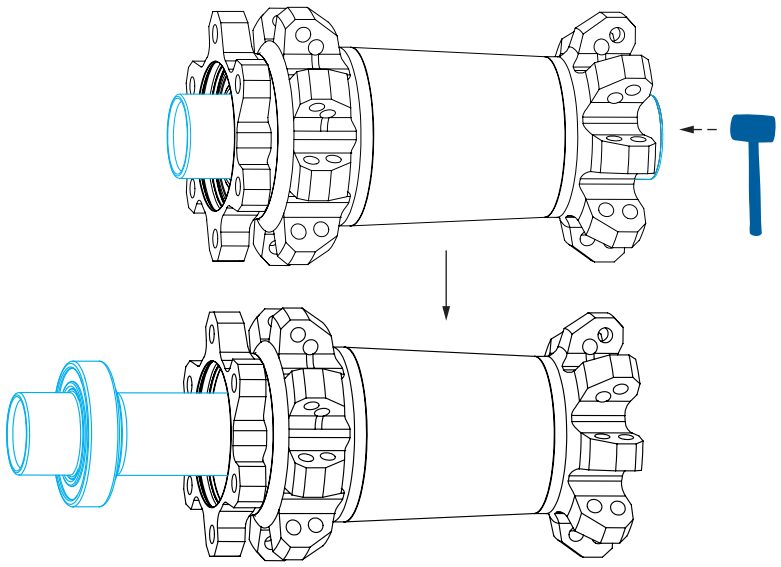

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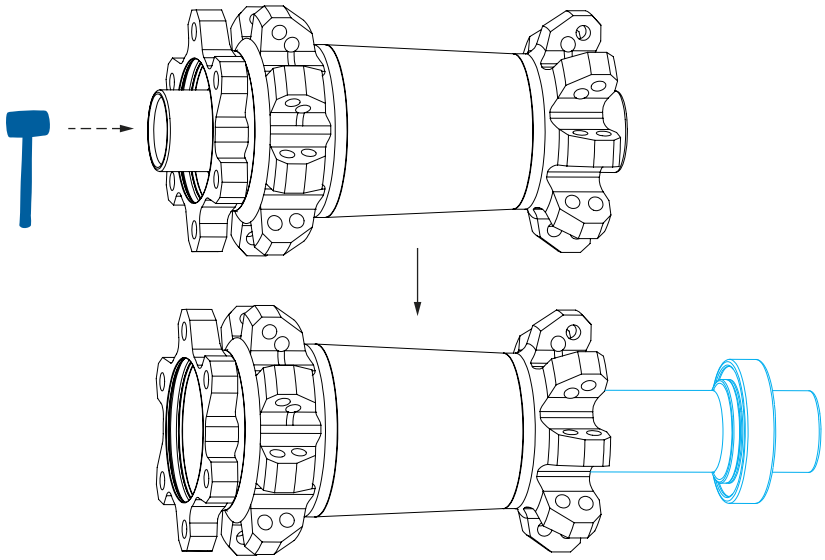

Reinsert the axle and use it to drive out the remaining bearing in the same manner you removed the first. The remaining bearing can also be removed with a blind bearing puller or carefully with a drift/punch and a mallet.

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HYDRA MOUNTAIN FRONT HUB SERVICE

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TOOLS

BEARING PRESS

MARINE GREASE

BEARING LAYOUT CHART

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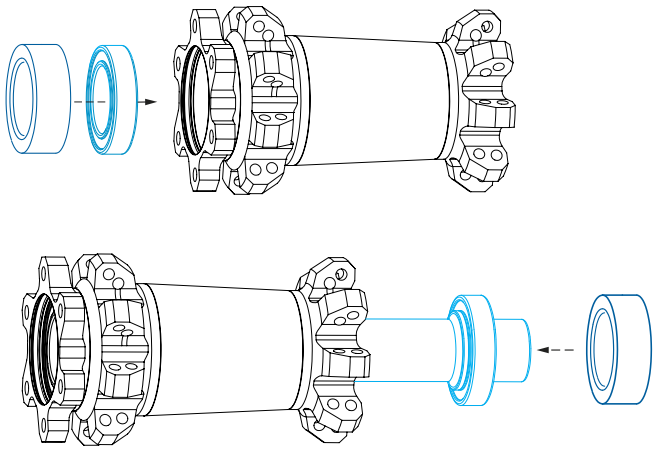


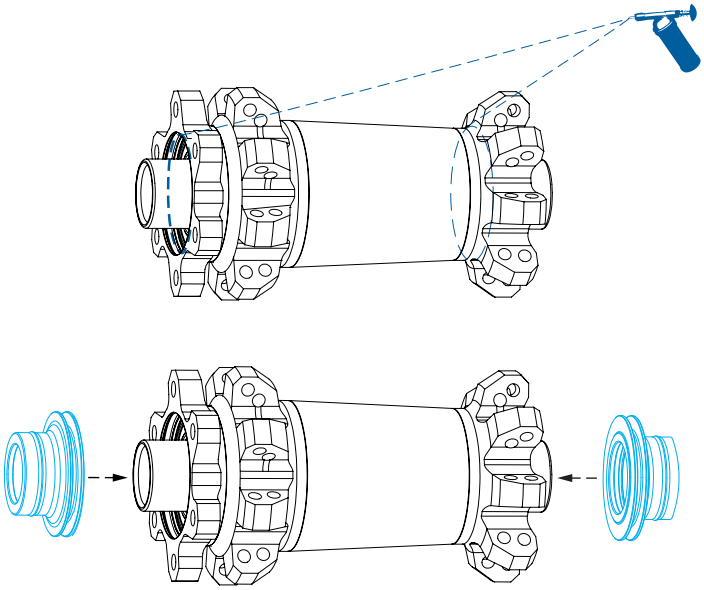
7.1

Front Hub Assembly - Start by pressing the non-drive side bearing into the non-drive side of the hub using a bearing press.

After the non-drive side bearing has been pressed in, insert the hub's axle through from the drive side of the hub.

Press the drive side bearing over the end of the axle, into the drive side of the hubshell.

This will leave you with a hubshell that has an axle held captive by the two bearings.*



7.2

Front Endcap Installation - Coat the seal of the bearing and the o-rings inside the endcaps with grease before pressing the endcaps into the hub.

Marine grease will create a membrane that will help keep your bearings free from contamination.