UG

VECTR4

User Guide



STOP AT NOTHING.

WWW.HPIRACING.COM

hpi·racing

En 161300-006-UG

Thank you

Thank you for selecting this HPI RACING product!

This kit is designed to be fun to drive and uses top quality parts for durability and performance. The instruction manual you are reading was designed to be easy to follow yet thorough in its explanations. HPI Racing wants you to enjoy driving your new R/C kit. If you come across any problems or need some help getting through a step, you can contact us on the internet at www.hpiracing.com.

This is a high-performance R/C kit, and it requires regular maintenance for best performance. If you don't do regular maintenance the performance will suffer. HPI has all the necessary parts and accessories available to keep your car performing at its best.

The caution or attention symbols will warn you about steps that can be very dangerous.

Please read and understand the instructions carefully before proceeding.



Cautions

Failure to follow these instructions can damage your kit, and cause serious bodily injury or death.



Attention

Failure to follow these instructions can cause injury to yourself or others.

You might also cause property damage or damage your kit.



Cautions

Before Running	**Please read the manual (with parent, guardian or a responsible adult if necessary).**
While Operating	**Please do not run on a public street, this could cause serious accidents, personal injuries and/or property damage.**
	Please do not run near pedestrians or small children.
Before Operating	**Make sure that all screws and nuts are properly tightened.**
	Always use fresh batteries for your transmitter and receiver to avoid losing control of the model.
	Please confirm the neutral throttle trigger position.
After Running	**Turn OFF receiver first, then turn OFF transmitter. This will prevent the car from losing control.**
	After running a HPI RACING product, it is necessary to perform routine maintenance. Failure to do this can result in increased wear and damage to the motor and chassis.
Battery safety	**Please be careful when handling the battery. It will be hot after running. If the wire is frayed, a short circuit can cause a fire.**

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Additional Information

QS	*Quick Start Guide*	+ www
TG	*Technical Guide*	+ www
BM	*Body Installation*	+ www
SG	*Startup Guide*	www
RM	*Radio System Manual*	www
EM	*ESC Manual*	www
UG	*This Guide*	www

EM 1-1

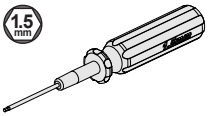
NOTE - This refers to the relevant guide (as above) and the relevant section. In this example, Section 1-1 of the ESC Manual.

1 Troubleshooting

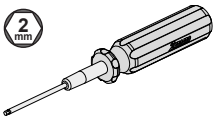
If RC car does not move or you have no control, see below

Problem	*Cause*	*Remedy*
Does Not Move.	Battery is not placed properly in the transmitter.	Place batteries in the transmitter properly.
	Weak or no battery in model.	Install charged battery.
	Damaged motor.	Replace with new motor.
	Frayed or broken wiring.	Splice and insulate wiring completely.
	ESC is shut down by heat protection circuit.	Stop driving immediately, do not drive the car until the Speed Controller cools down.
No Control.	Weak or no batteries in transmitter or model.	Install charged or fresh batteries.
	Neutral position or trim is incorrect.	Adjust the steering trim.
	Binding Setup is incorrect.	Make sure binding is setup properly.
Steering and Throttle Function Reversed.	Servo reverse switch is in the wrong position.	Set to correct position.
	Wires from ESC to motor are improperly connected.	Re-connect the motor.

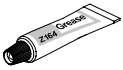
Recommended Tools



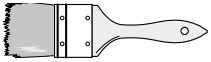
Allen Wrench



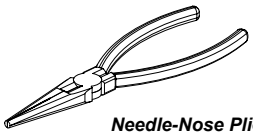
Allen Wrench



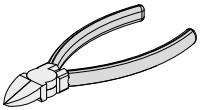
Z164 Grease



Brush



Needle-Nose Pliers



Side Cutters



Rag



Oil Spray



Car Cleaner

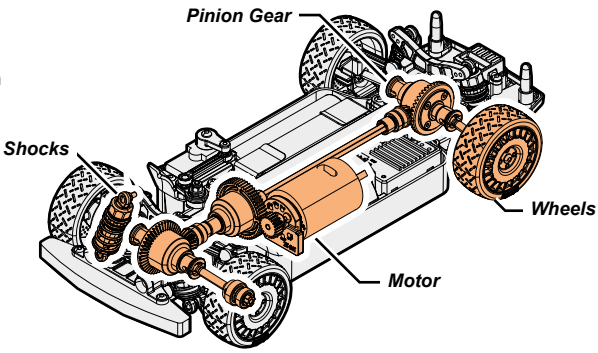
Maintenance Schedule

Refer to the chart for the maintenance schedule.

After running, clean the chassis and check all moving parts for damage. If any parts are broken or damaged, repair or replace them before the next run. Regular maintenance is necessary to prevent damage to the car and maintain its performance.

! Refer to the spare parts list for replacement part numbers.

! Look for any damaged parts.

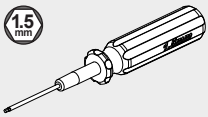


x1 Every Pack.	x10 Every 10 Packs.	x20 Every 20 Packs.	Maintenance Item	Section Reference	
✓	✓	✓	Chassis Maintenance	PG 6	2-1
✓	✓	✓	Wheel Maintenance	PG 7	2-2
		✓	Motor and Pinion Gear Maintenance	PG 8	2-3
		✓	Differential Maintenance	PG 10	2-4
		✓	Shock Maintenance	PG 16	2-5
		✓	Radio Maintenance	RM	

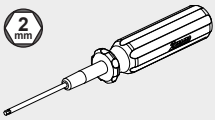
2-1 *Chassis Maintenance*

After running, clean the car and lubricate metal-to-metal contact points. Replace damaged parts, and check that all the screws are tight.

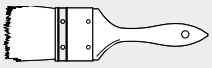




Allen Wrench



Allen Wrench



Brush



Rag

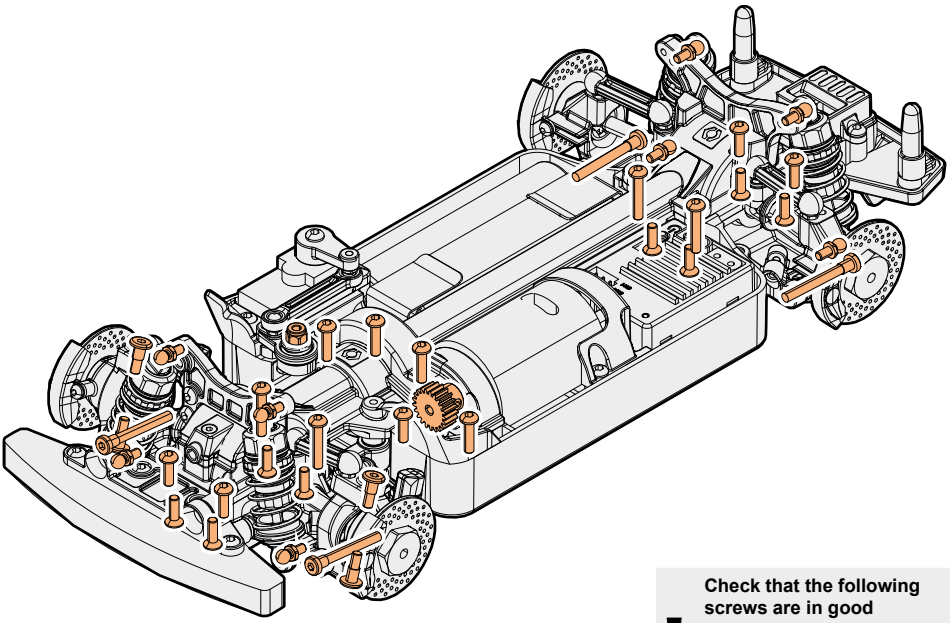


Car Cleaner



Oil Spray

1



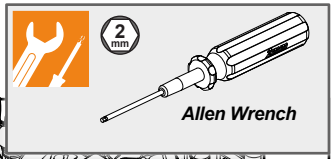
Check that the following screws are in good condition:

1. Steering knuckle screws.

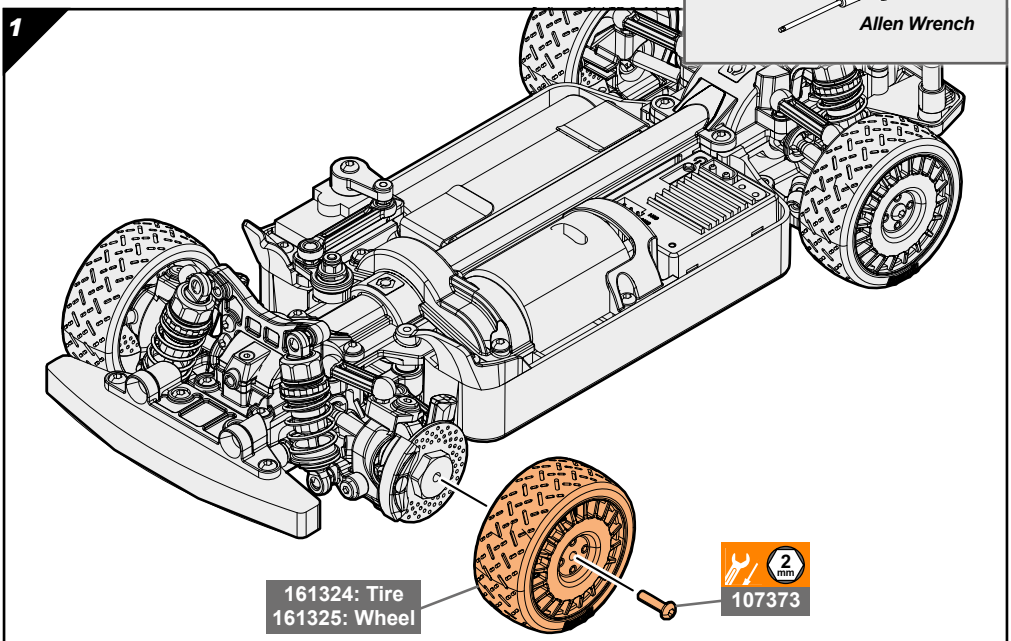
2. Chassis screws.

2-2 *Wheel Maintenance*

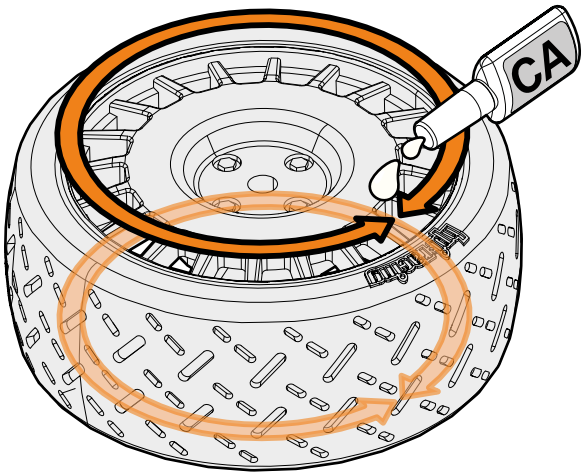
Make sure the tires are securely glued to the wheels. Reglue them if necessary.



1

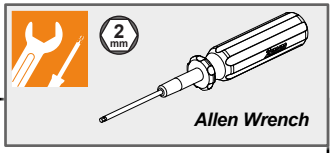


2 ***Reglue the tire if necessary.***

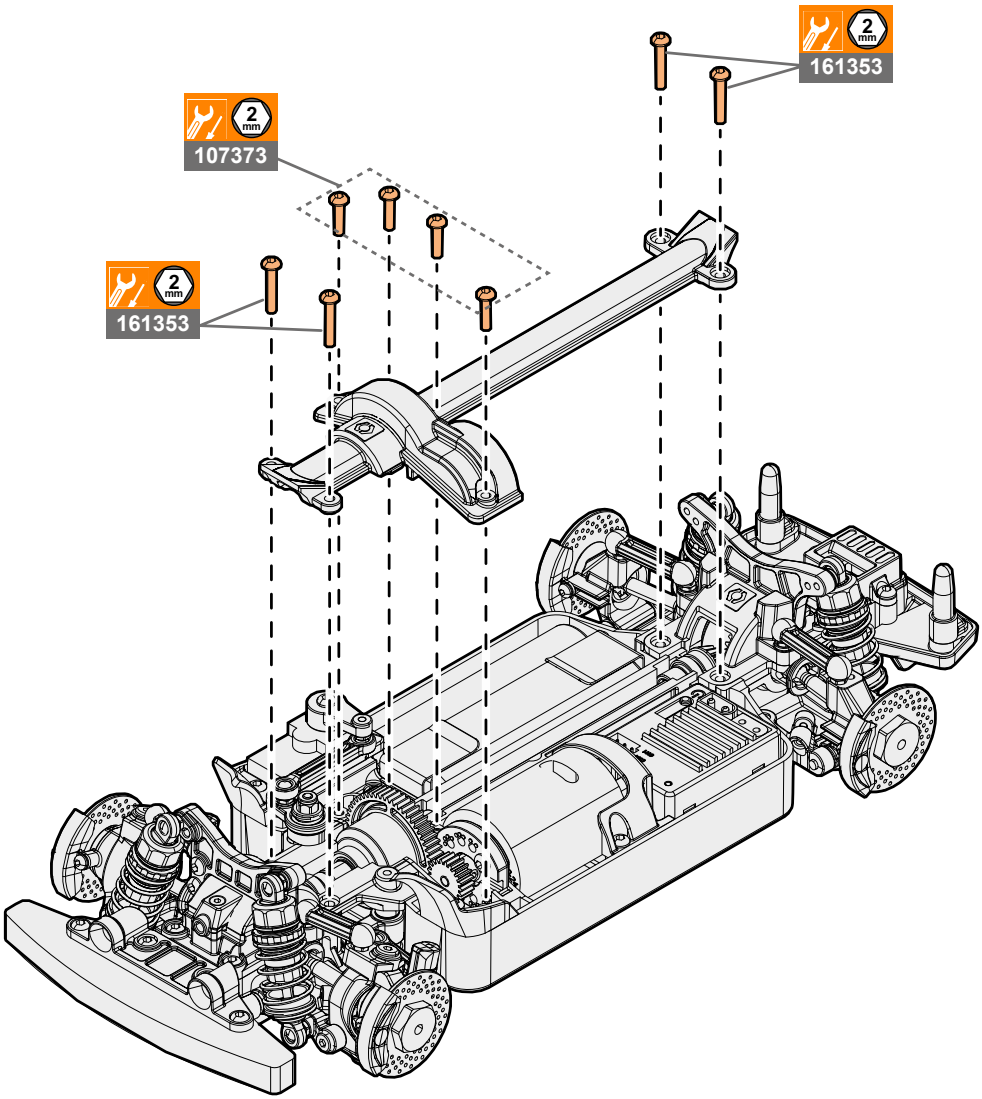


2-3 *Motor and Pinion Gear Maintenance*

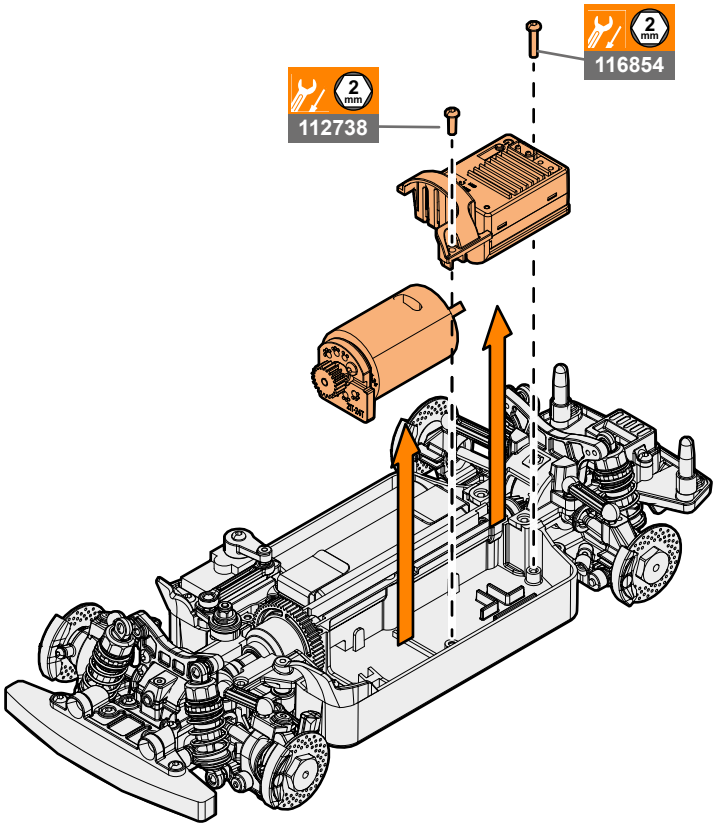
Adjust pinion and spur gear mesh so that they operate smoothly.



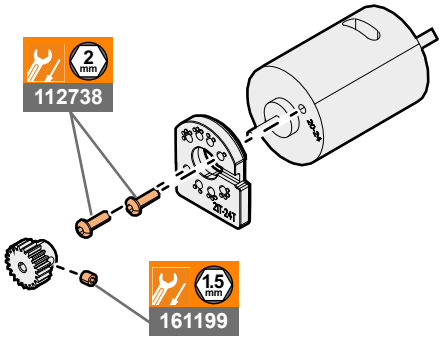
1



2



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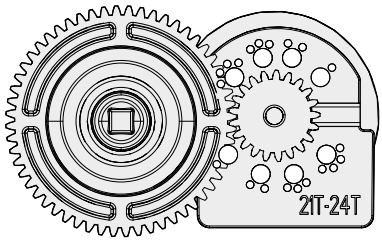


4

Adjust the motor position to achieve the correct gear mesh.

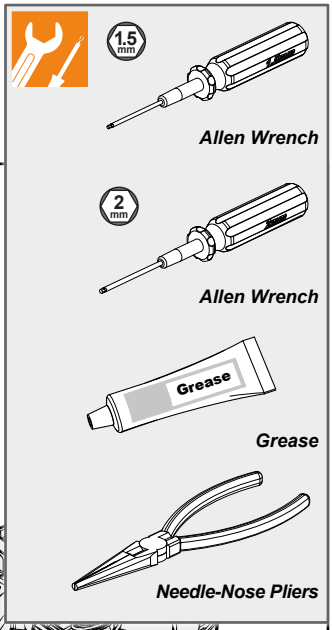
Select the correct motor position to match the size of pinion being used. 21T-24T pinions are compatible.

Incorrect gear mesh may damage the spur gear.



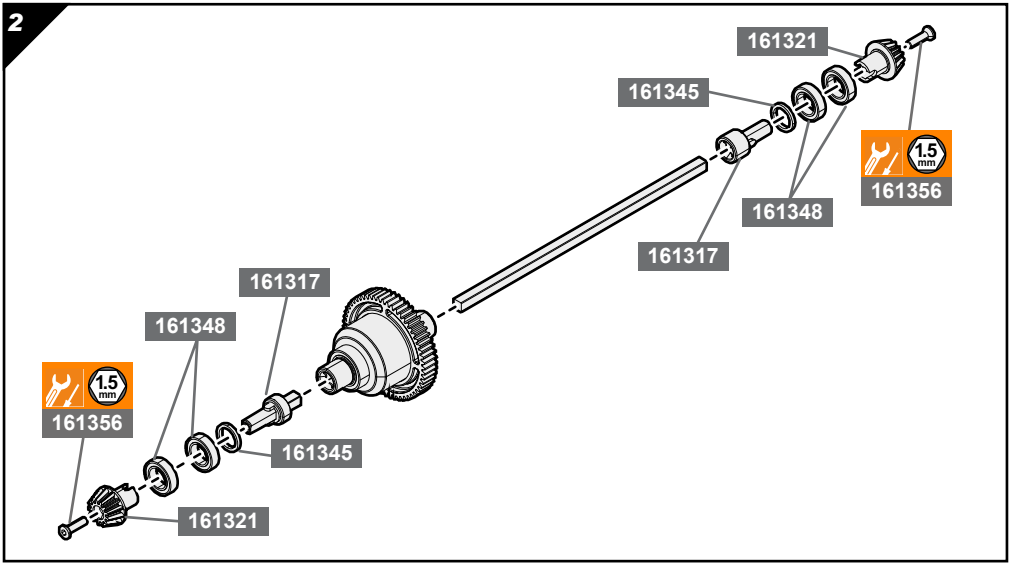
2-4 *Differential Maintenance*

See Motor and Pinion Gear Maintenance Steps 1 -2 to remove transmission cover



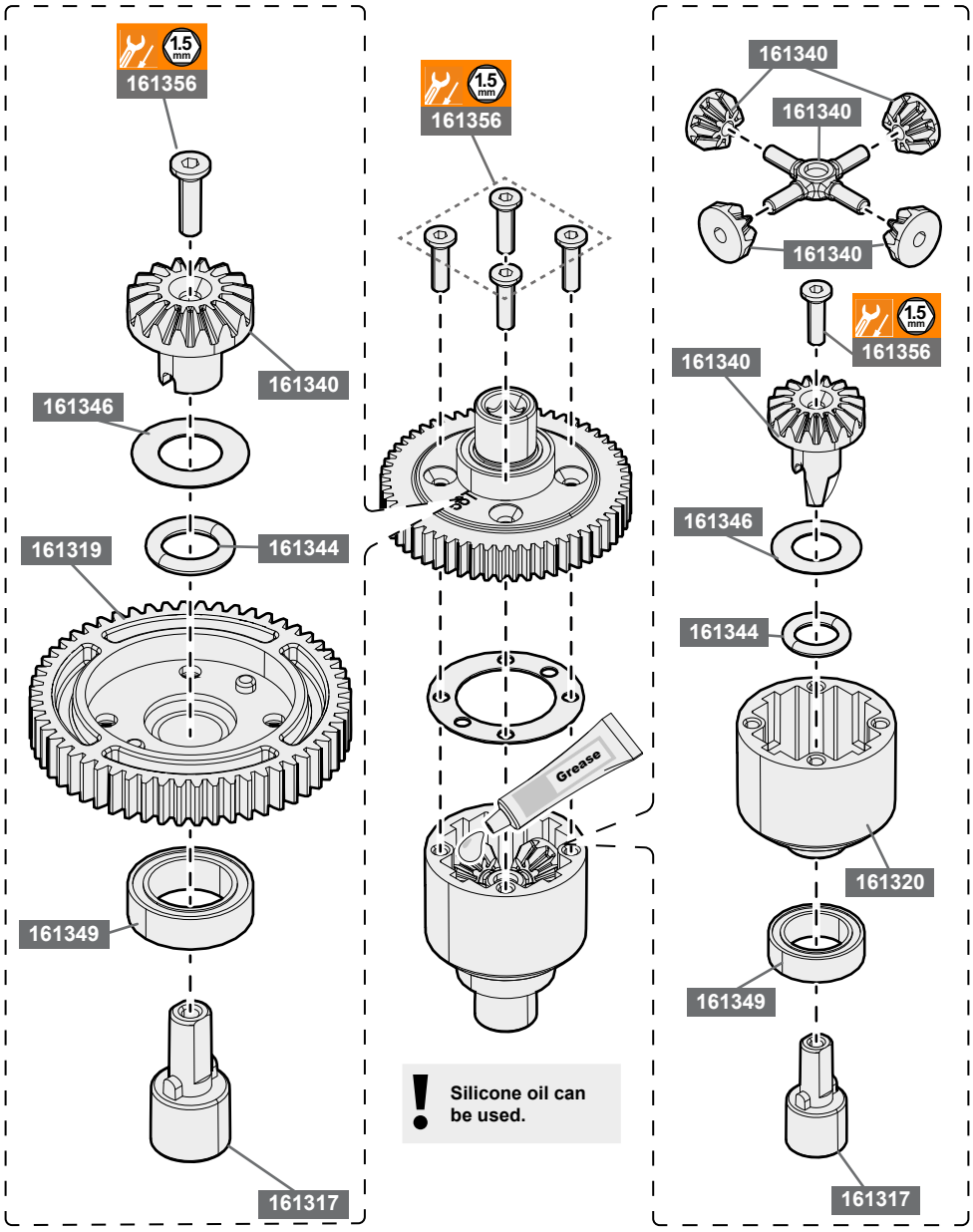
1

2



2-4-1 Center Differential

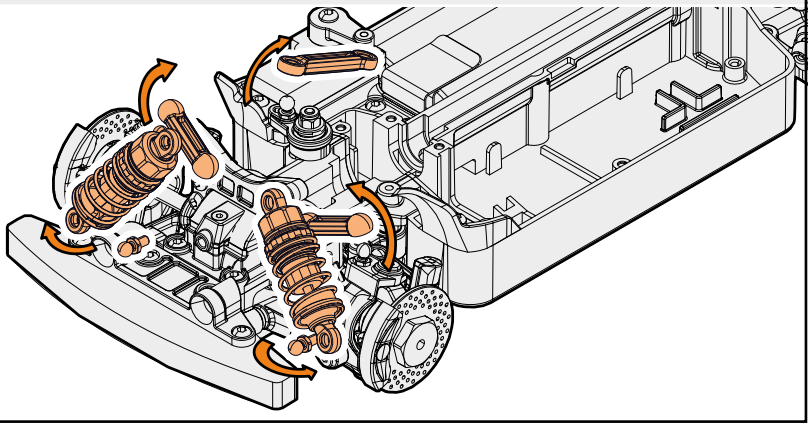
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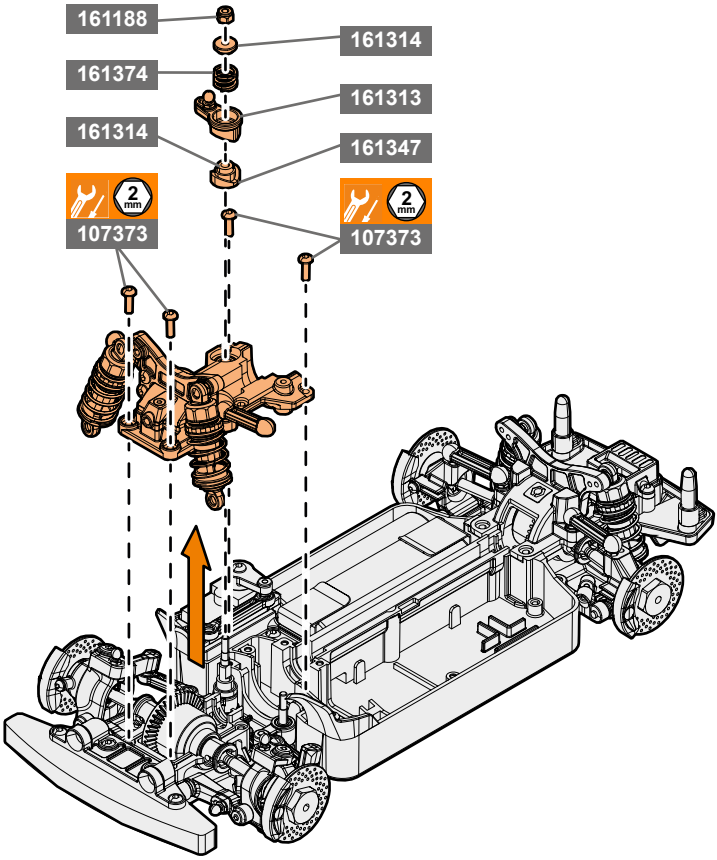
! Silicone oil can be used.

4

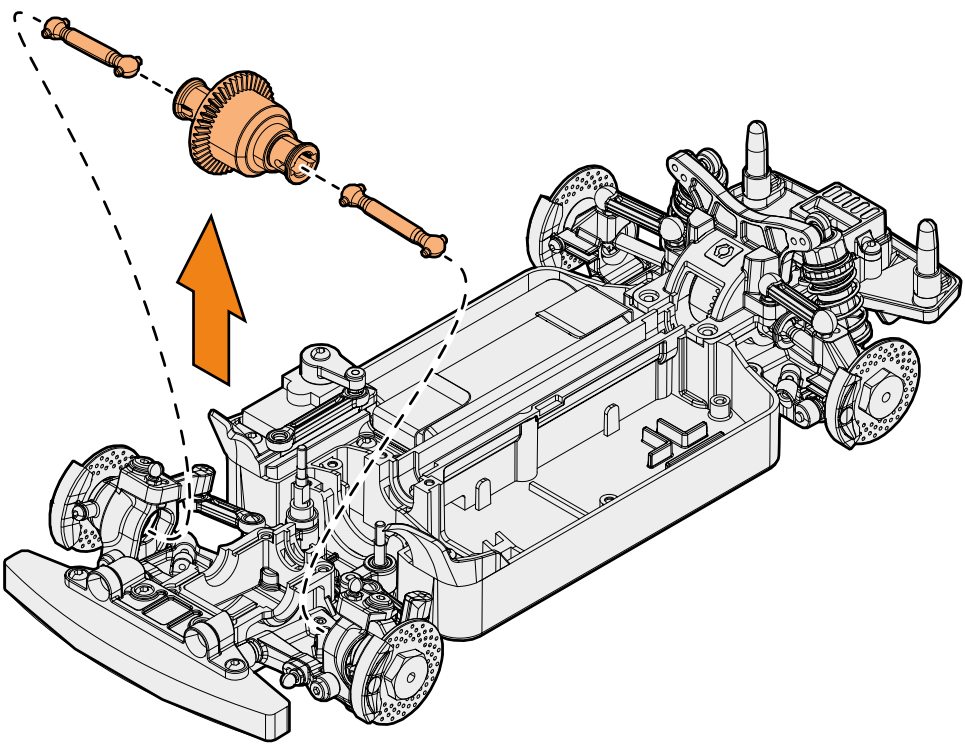
Carefully use pliers to disconnect shocks and tie rods.



5



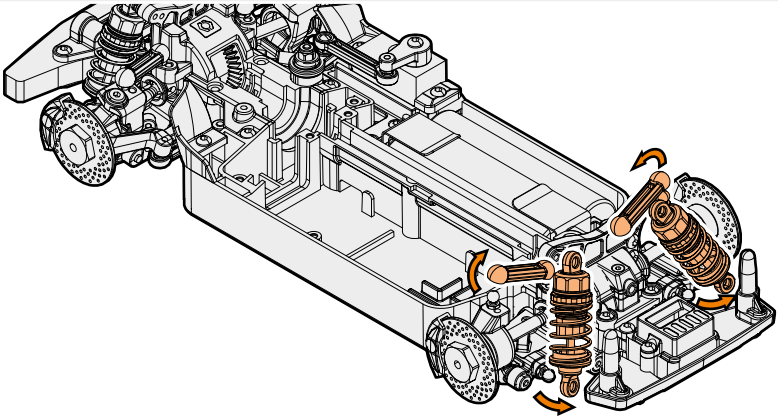
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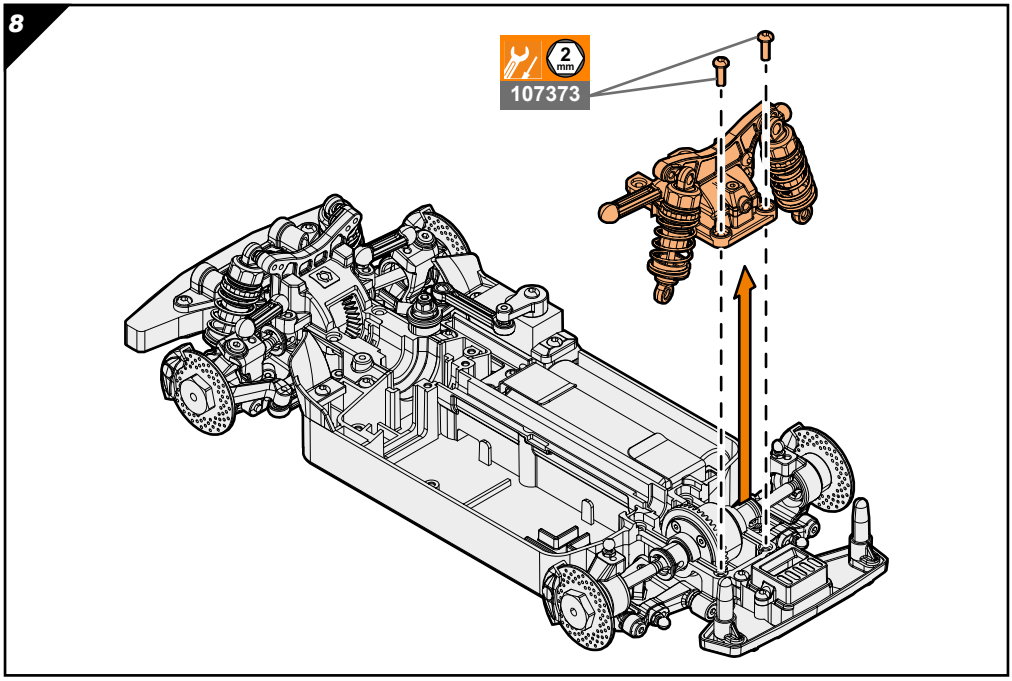
2-4-3 Rear

7

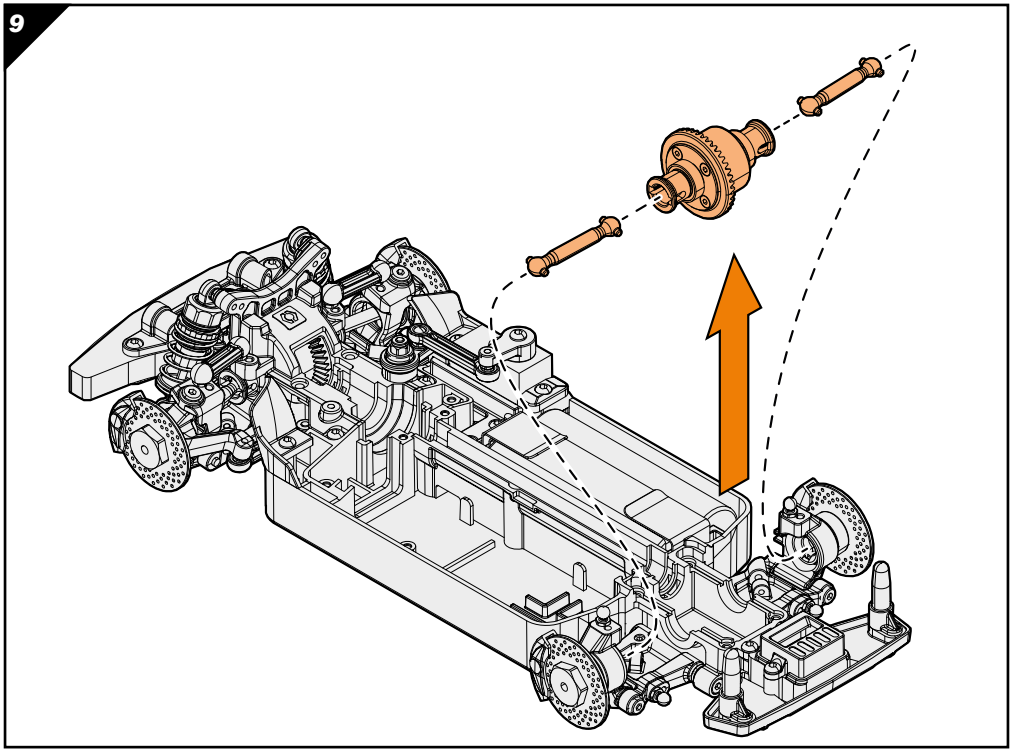
Carefully use pliers to disconnect shocks and tie rods.



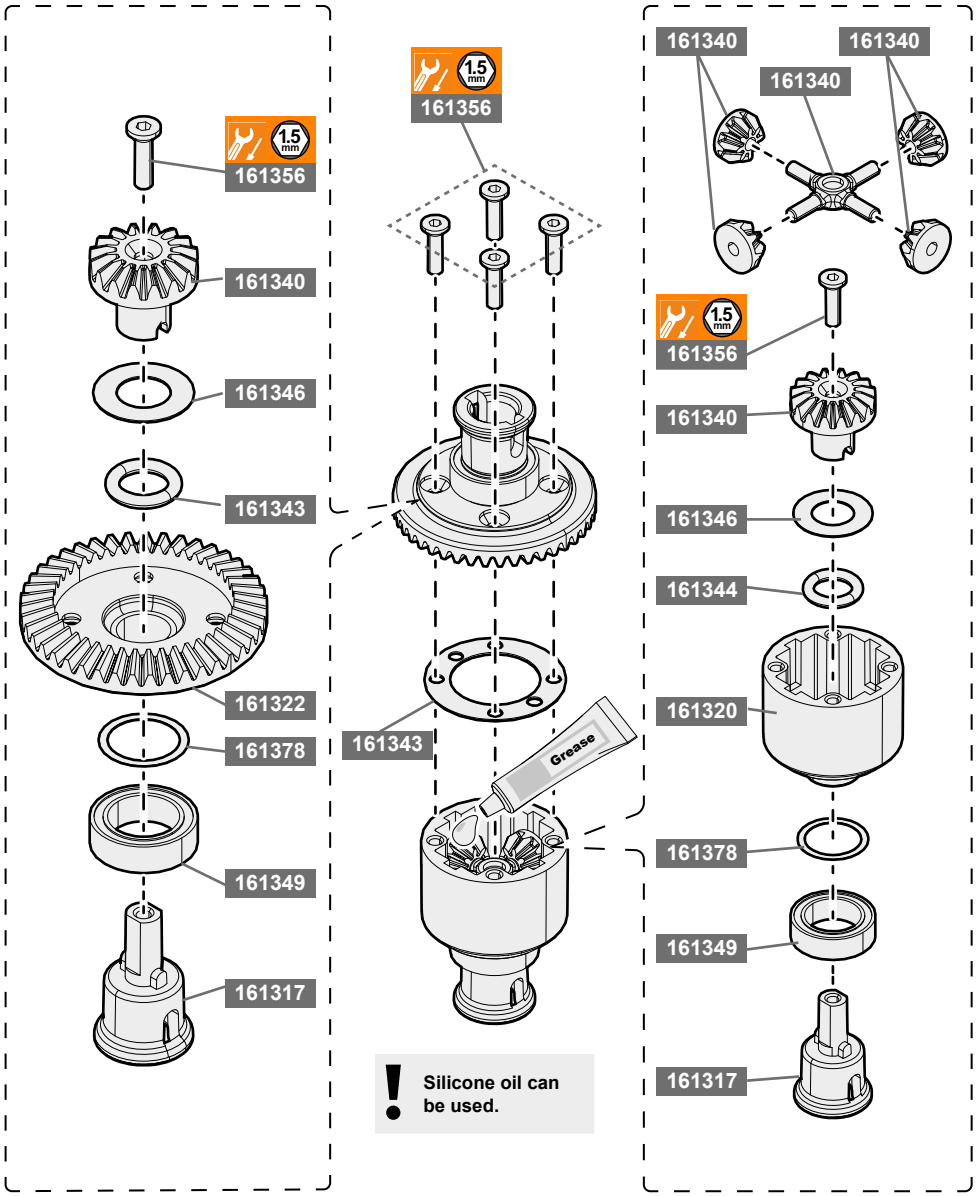
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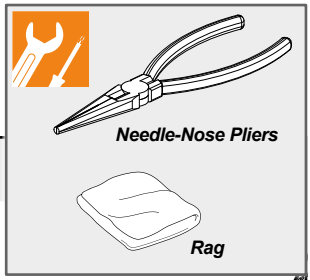


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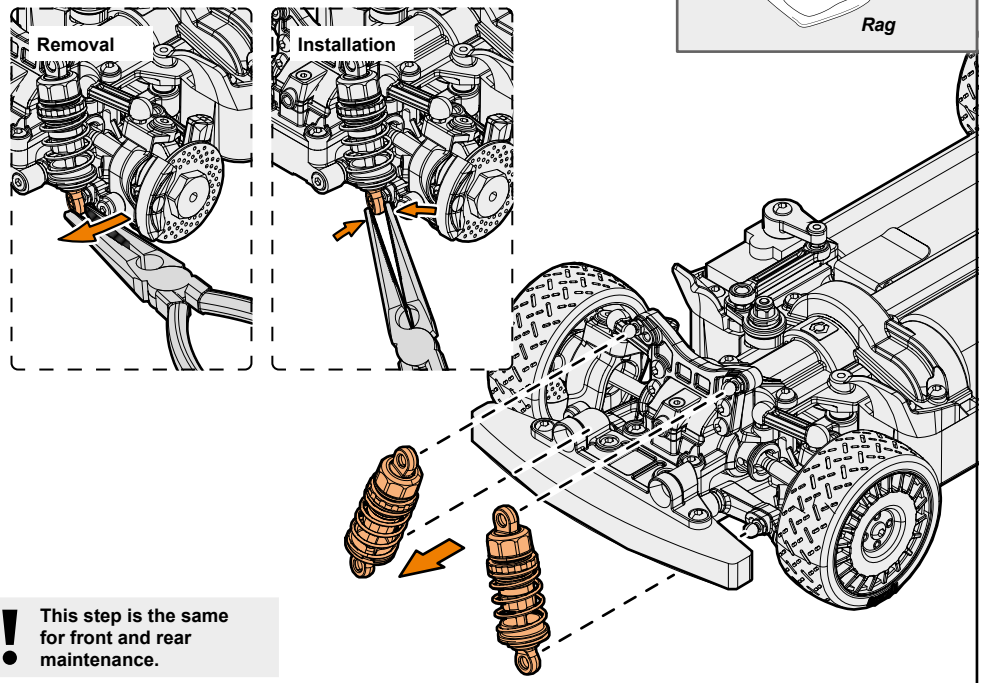

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Grease
161340
161340
161340
161356
161340
161346
161344
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161317
! Silicone oil can be used.

2-5 *Shock Maintenance*

Inspect shocks for oil leakage and for bent shock shafts.
Repair or replace if necessary

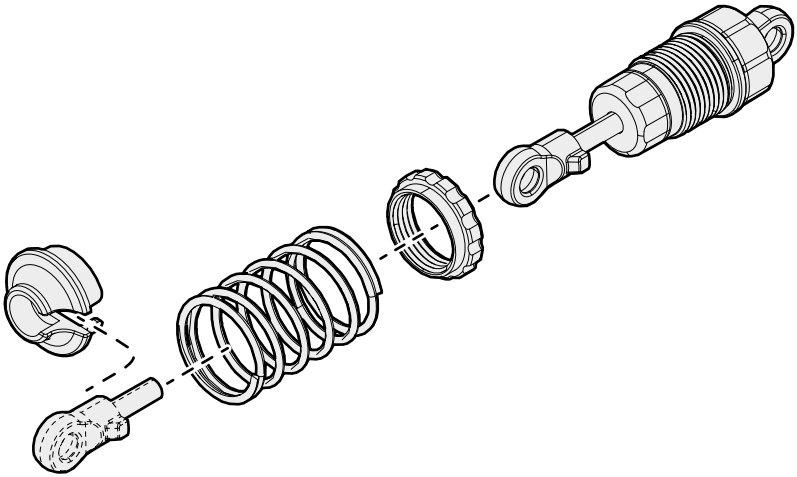


1 *Carefully use pliers to disconnect the shocks.*



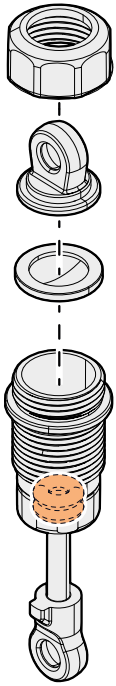
! **This step is the same for front and rear maintenance.**

2



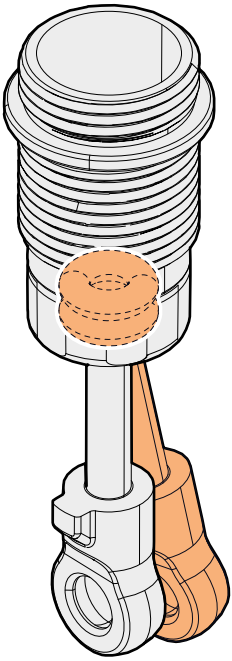
3

Remove the cap, inspect the O-ring for damage, and check for oil leaks.



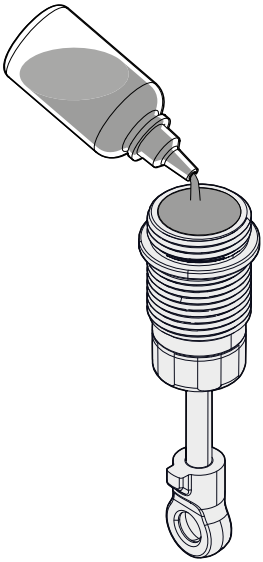
4

If the shock shaft is bent, replace the shaft and silicone O-rings.



5

If necessary, refill the shocks with shock oil (available separately). The stock shock oil has a viscosity of 500 cSt.

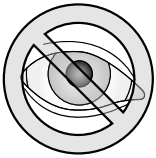


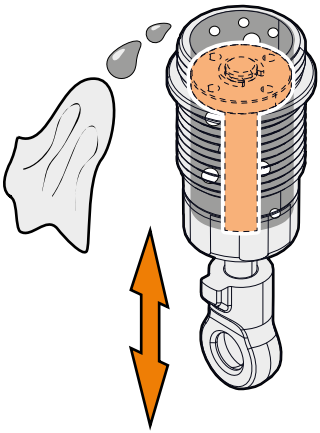
! **Check for leaking oil.**

6

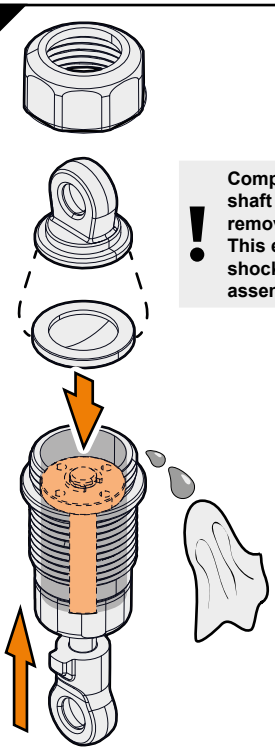
Check for excess oil. Use a rag to wipe away excess oil.

Move the shaft up and down slowly to remove all air bubbles.



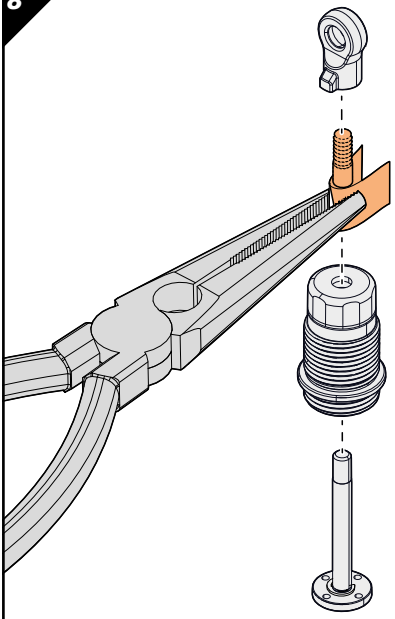


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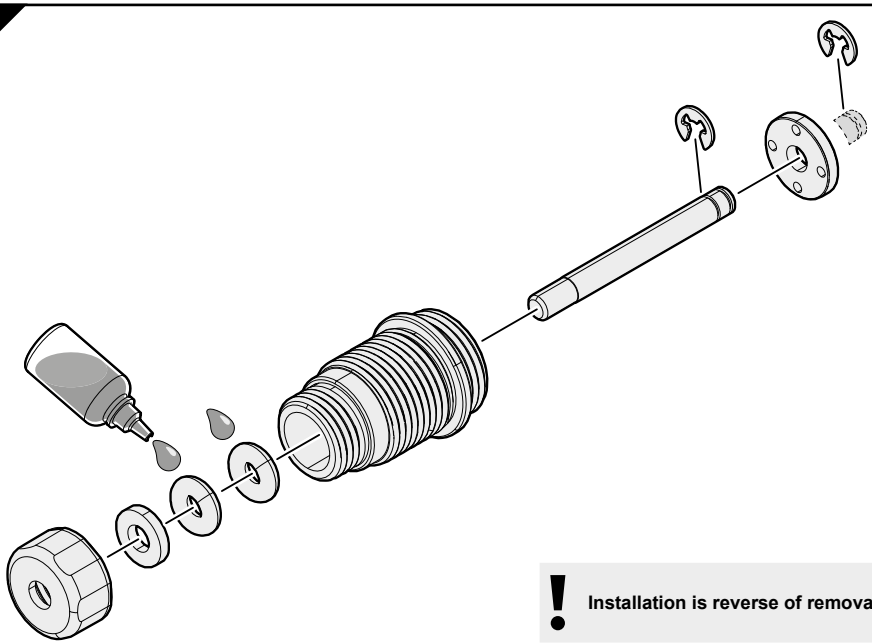
! **Compress shock shaft completely to remove excess oil. This ensures smooth shock travel after assembly.**

8



! **Use masking tape to protect shock shaft. Screw the ball end all the way onto the shock shaft.**

9



! **Installation is reverse of removal.**



HPI RACING A/S

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Serial Number
Seriennummer
Numéro de série
シリアルナンバー