UG

VENTURE 18
User Guide



STOP AT NOTHING.

WWW.HPIRACING.COM

hpi·racing

En 160800-006-UG

Thank you

VENTURE 18

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	Read this manual before you operate the vehicle. If necessary, ask a parent, guardian, or responsible adult to help you.
While Operating	Do not operate the vehicle on public streets. This can cause serious accidents, personal injury, 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 to avoid losing control of the model.
	Make sure that the vehicle battery is fully charged.
	Make sure that the throttle trigger is in the neutral position.
After Running	Switch off the vehicle FIRST, then switch off the transmitter. Disconnect the battery from the ESC/controller.
	After you operate an HPI RACING product, we strongly suggest you complete the routine maintenance. Without this maintenance, wear can increase and damage can occur 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
SG	*Startup Guide*	www
RM	*Transmitter Manual*	www
EM	*ESC Manual*	www
UG	*This Guide*	www

i **EM 1-1**

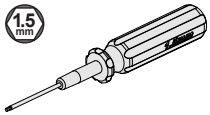
NOTE - This refers to the relevant guide (as above) and the relevant section. In this example, Section 1-1 of the ESC Manual.

1 Troubleshooting

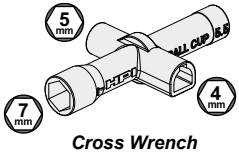
If the RC car does not move or you cannot control it, refer to the table below.

Problem	Possible cause	Remedy
The car does not respond to the transmitter.	The transmitter or car/receiver is switched off.	Switch on the transmitter FIRST, then switch on the car/receiver.
	The transmitter batteries are installed incorrectly.	Reinstall the batteries, observing the correct polarity.
	The transmitter batteries are low or missing.	Install fresh batteries or fully charged rechargeable batteries of the specified type.
	The car battery is discharged, disconnected or missing.	Install a charged battery. Make sure that it is securely connected.
	The transmitter and receiver are not bound correctly.	Bind the transmitter and receiver (RM 3-1). Then check that the fail-safe operates correctly.
The steering works, but the car does not move.	The motor connection is loose or disconnected.	Switch off the car. Disconnect the battery. Examine the motor wiring. Reconnect the wiring as specified in the ESC instructions.
	The wiring is frayed or broken.	Switch off the car. Disconnect the battery. Repair or replace the damaged wiring before use.
	The motor is damaged.	Replace the motor with a suitable replacement.
The car stops during use.	The car battery is discharged.	Stop driving. Recharge the battery according to the battery and charger instructions.
	The ESC has shut down because of overheating.	Stop driving immediately. Do not drive the car again until the ESC has cooled down.
Control is intermittent or lost.	The transmitter batteries or car battery are low.	Replace depleted transmitter batteries with fresh batteries, or recharge them if they are rechargeable. Recharge the car battery as needed.
	The car is outside the operating range.	Move closer to the car. Make sure that the car responds correctly to the transmitter before you drive again.
The car does not drive straight.	The steering trim is incorrect.	Adjust the steering trim until the wheels are correctly aligned and the car drives straight.
The steering operates in the opposite direction.	The Steering Reverse setting is incorrect.	Change the Steering Reverse setting on the transmitter. Make sure that the steering operates in the correct direction.
The throttle operates in the opposite direction.	The Throttle Reverse setting or ESC setup is incorrect.	Make sure that the Throttle Reverse setting is correct. Follow the ESC setup procedure in the relevant manual.
	The motor wiring or motor direction setting is incorrect.	Make sure that the motor connections and motor direction setting agree with the instructions for the installed motor and ESC.

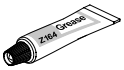
Recommended Tools



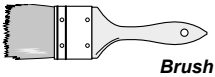
Allen Wrench

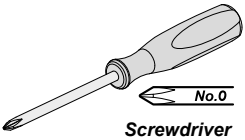


Cross Wrench

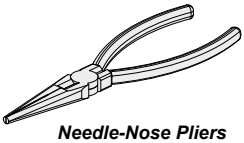


Z164 Grease


Brush



Screwdriver


Needle-Nose Pliers


Rag


Oil Spray



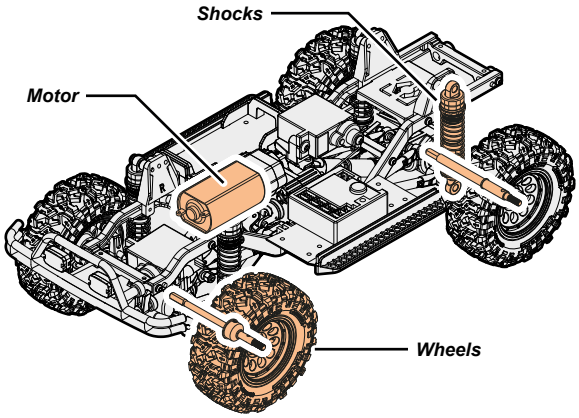
Car Cleaner

Maintenance schedule

Refer to the chart for the maintenance schedule. After each run, clean the chassis. Examine all moving parts for damage. Repair or replace broken or damaged parts before the next run. Regular maintenance helps prevent damage and maintain the car's performance.

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

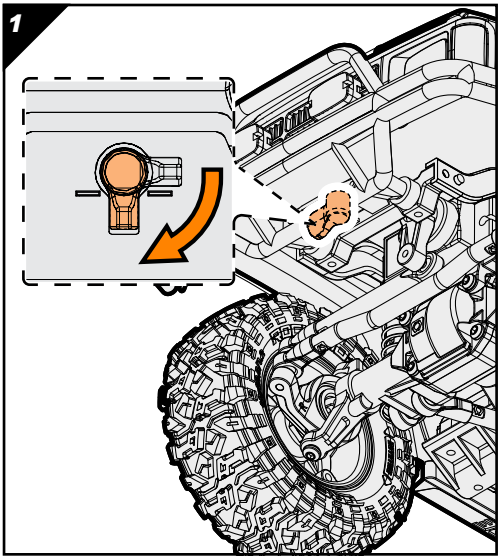
! Look for any damaged parts.

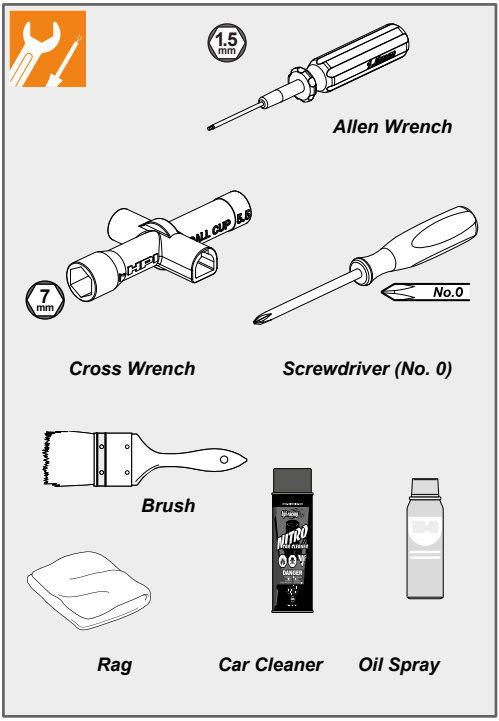


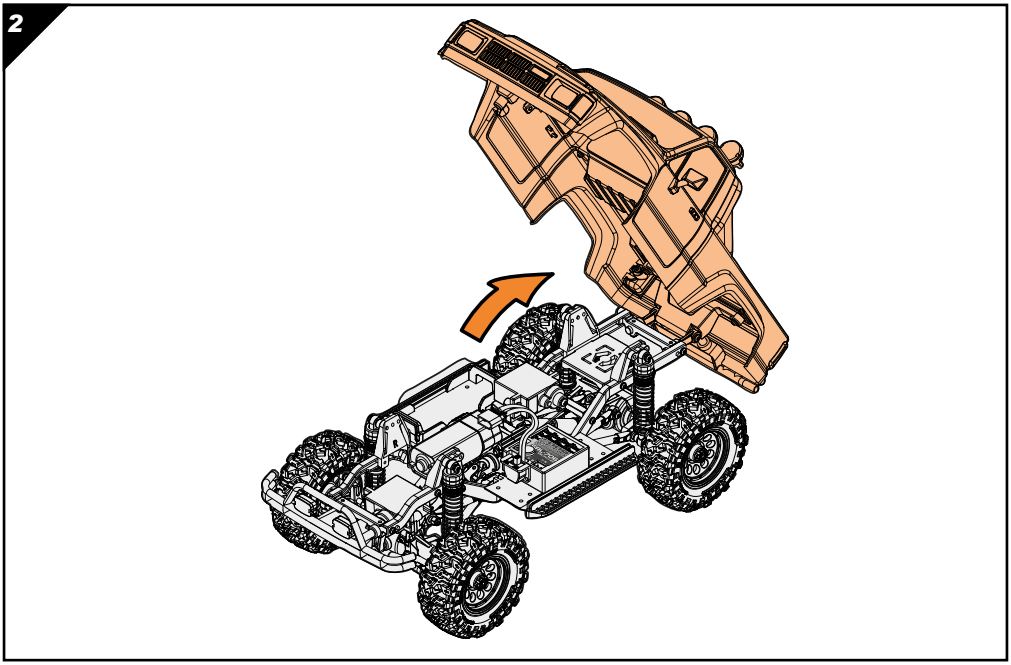
x1 Every Pack.	x10 Every 10 Packs.	x20 Every 20 Packs.	Maintenance Item	Section Reference	
✓	✓	✓	Chassis Maintenance	2-1	PG 6
✓	✓	✓	Wheel Maintenance	2-2	PG 8
		✓	Differential Maintenance	2-3	PG 9
		✓	Transmission Maintenance	2-4	PG 12
	✓	✓	Shock Maintenance	2-5	PG 15
✓	✓	✓	Radio Maintenance	RM	

2-1 *Chassis Maintenance*

After each run, clean the car. Lubricate the metal-to-metal contact points. Replace damaged parts. Make sure that all screws are tight.

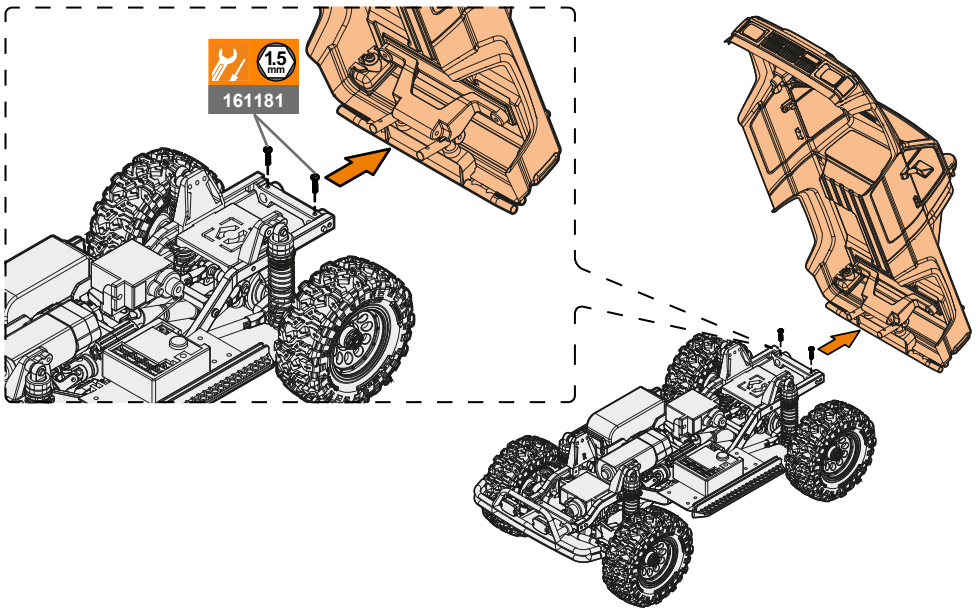






3

Remove the two button-head screws to release the body from the chassis.

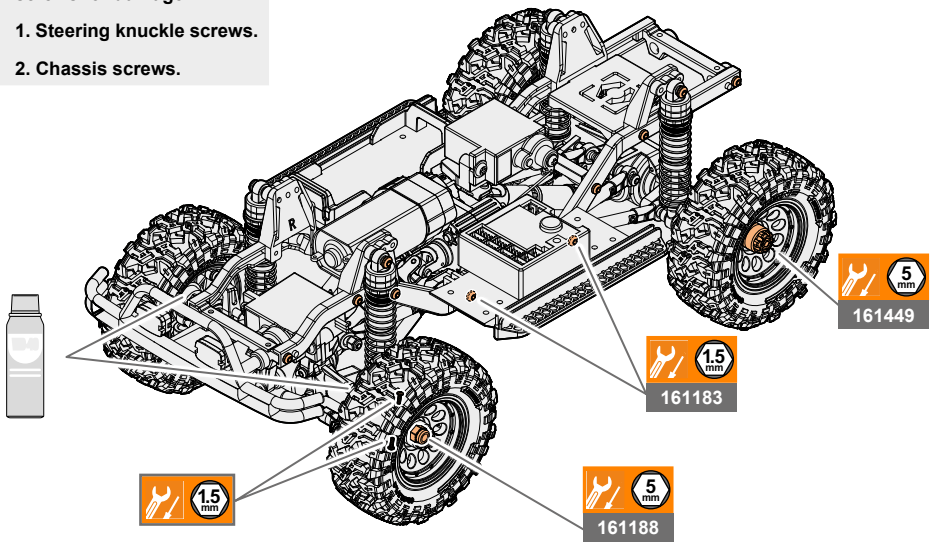


4

Examine the following screws for damage:

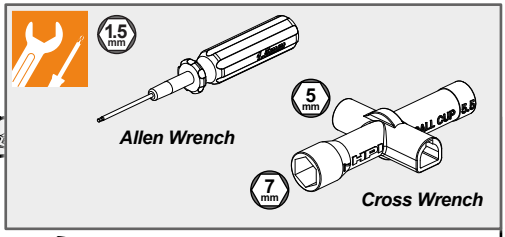
1. Steering knuckle screws.

2. Chassis screws.

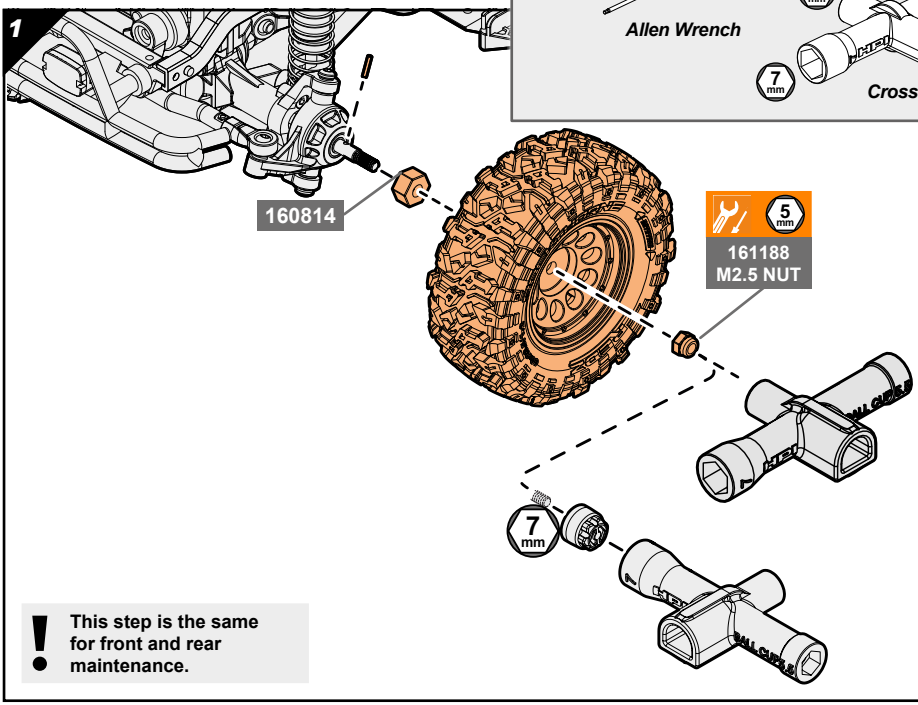


2-2 *Wheel Maintenance*

Make sure that the tires are securely attached to the wheels.

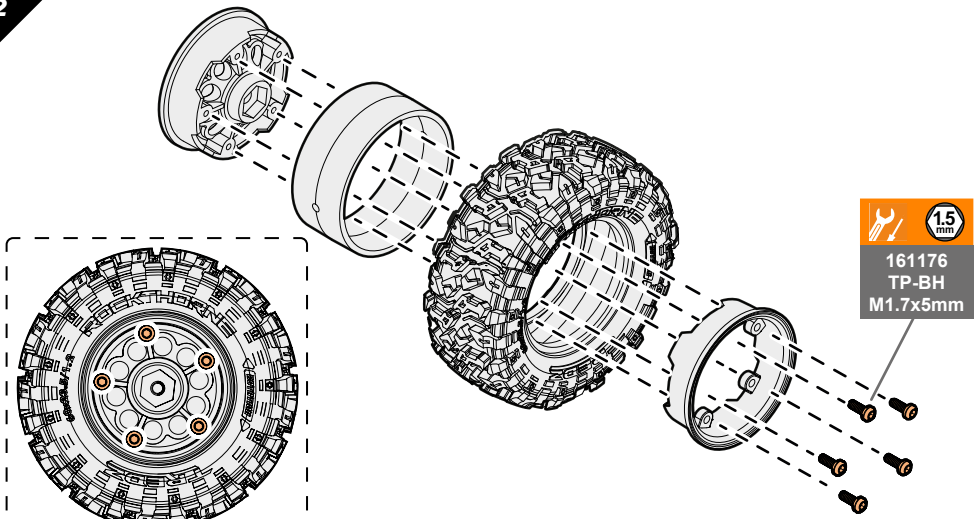


1



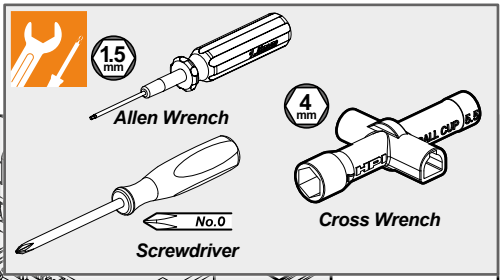
! **This step is the same for front and rear maintenance.**

2



2-3 *Differential Maintenance*

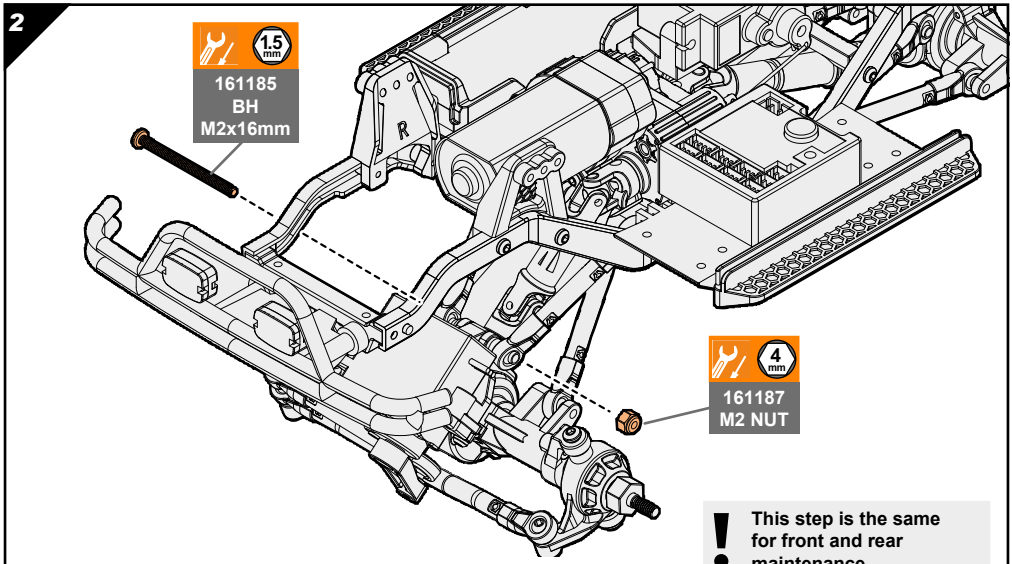
Examine the gears for wear. Repair or replace worn gears as necessary.



1

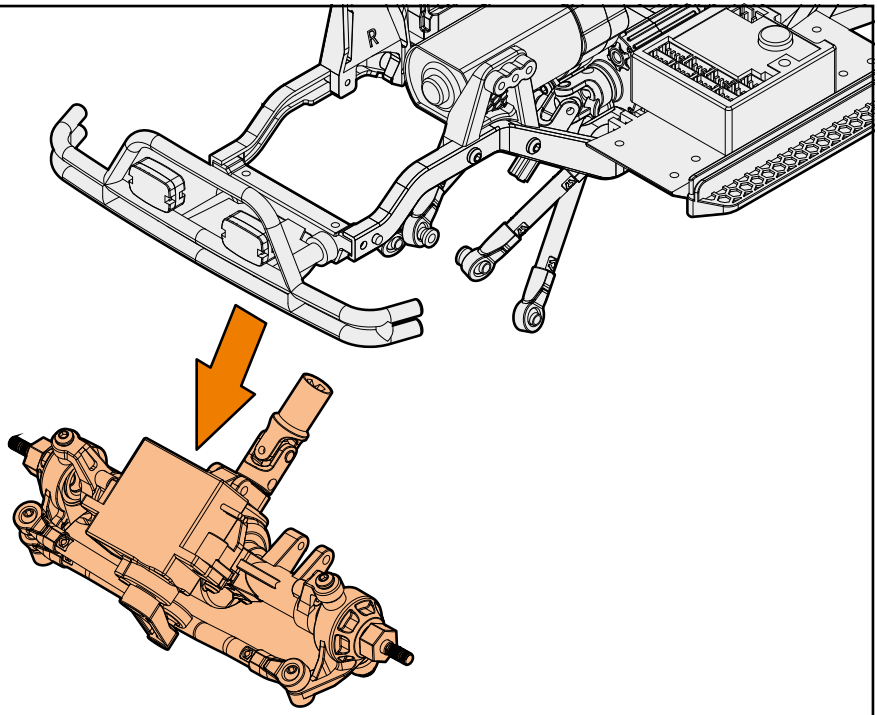
! This step is the same for left and right.

2

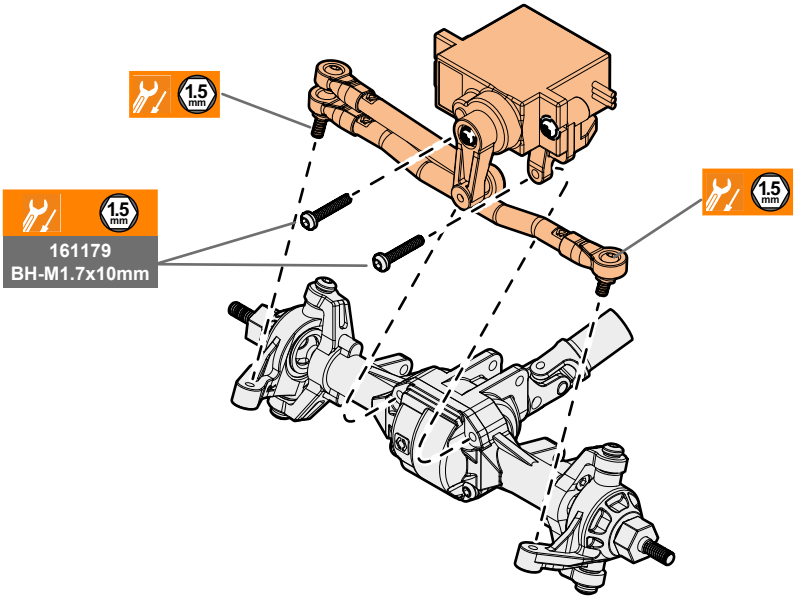


! This step is the same for front and rear maintenance.

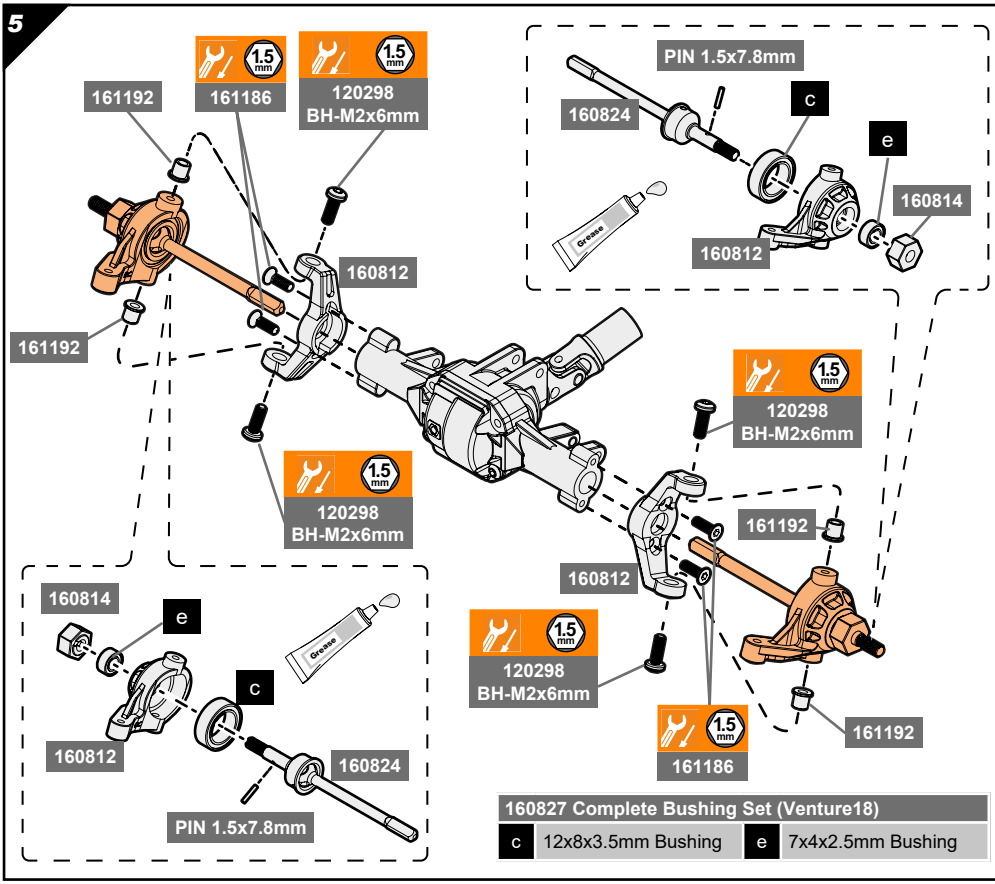
3



4



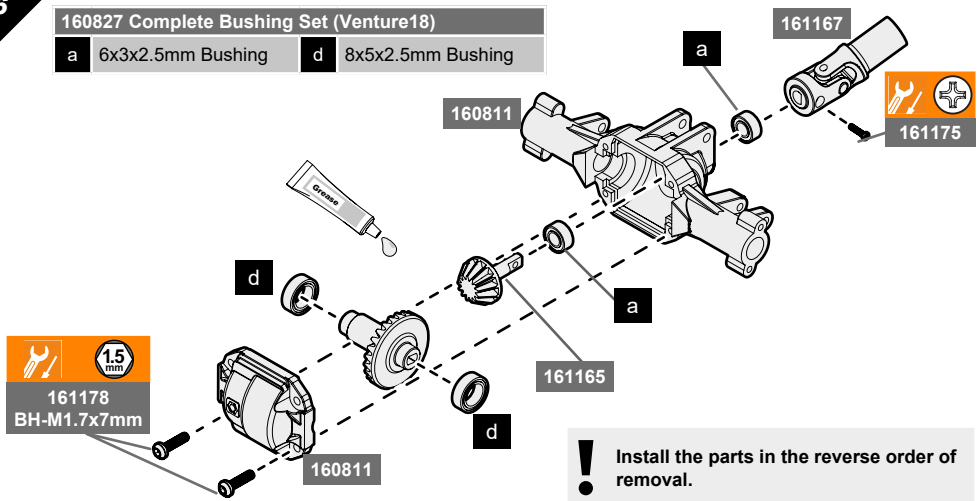
5



160827 Complete Bushing Set (Venture18)			
c	12x8x3.5mm Bushing	e	7x4x2.5mm Bushing

6

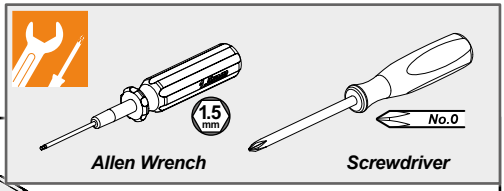
160827 Complete Bushing Set (Venture18)			
a	6x3x2.5mm Bushing	d	8x5x2.5mm Bushing

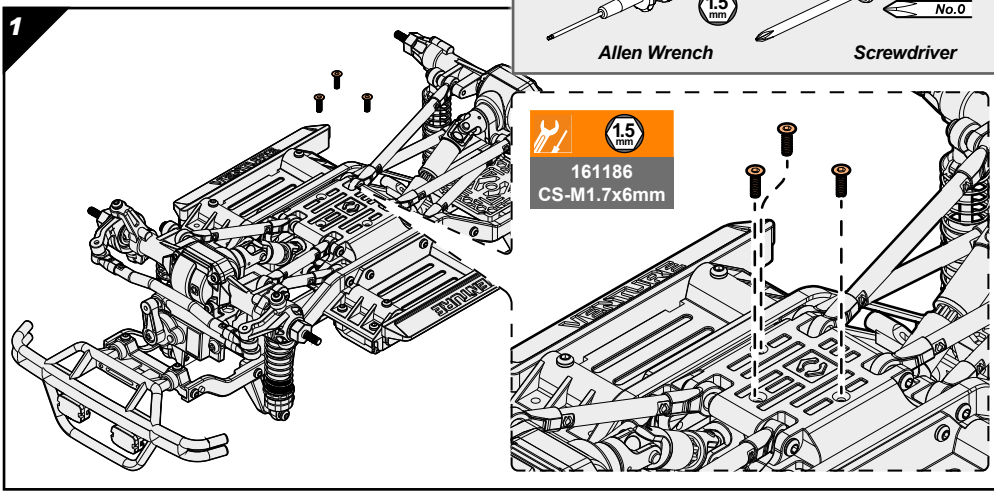


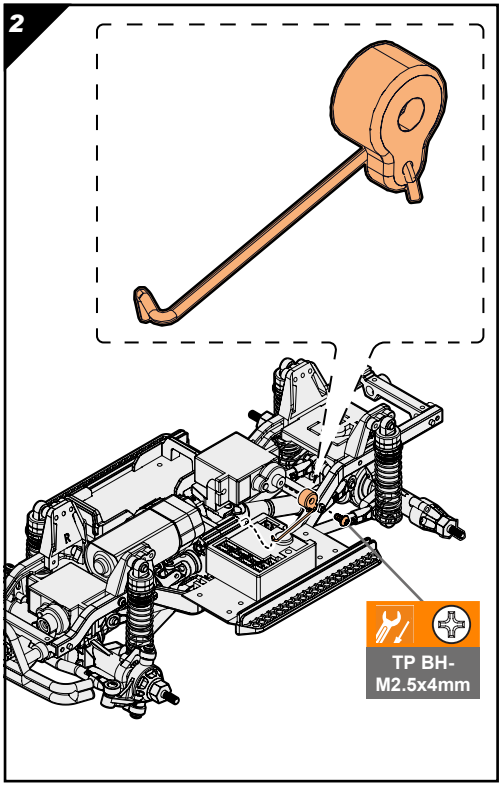
! **Install the parts in the reverse order of removal.**

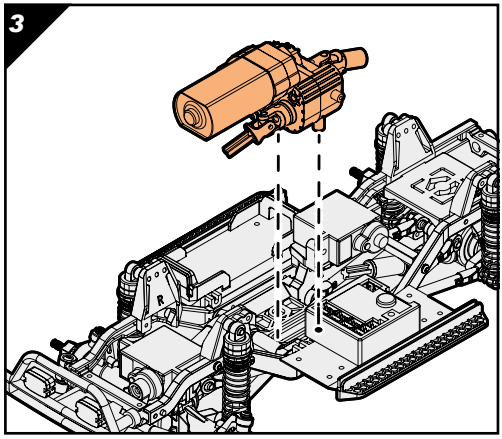
2-4 *Transmission Maintenance*

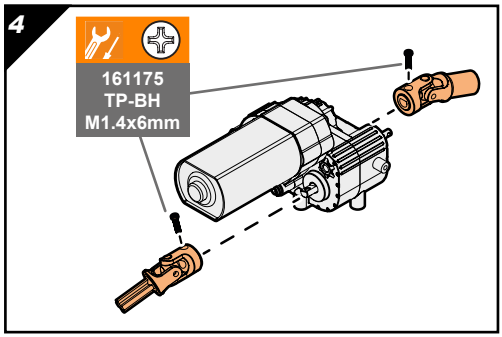
Examine the gears for wear. Repair or replace worn gears as necessary.



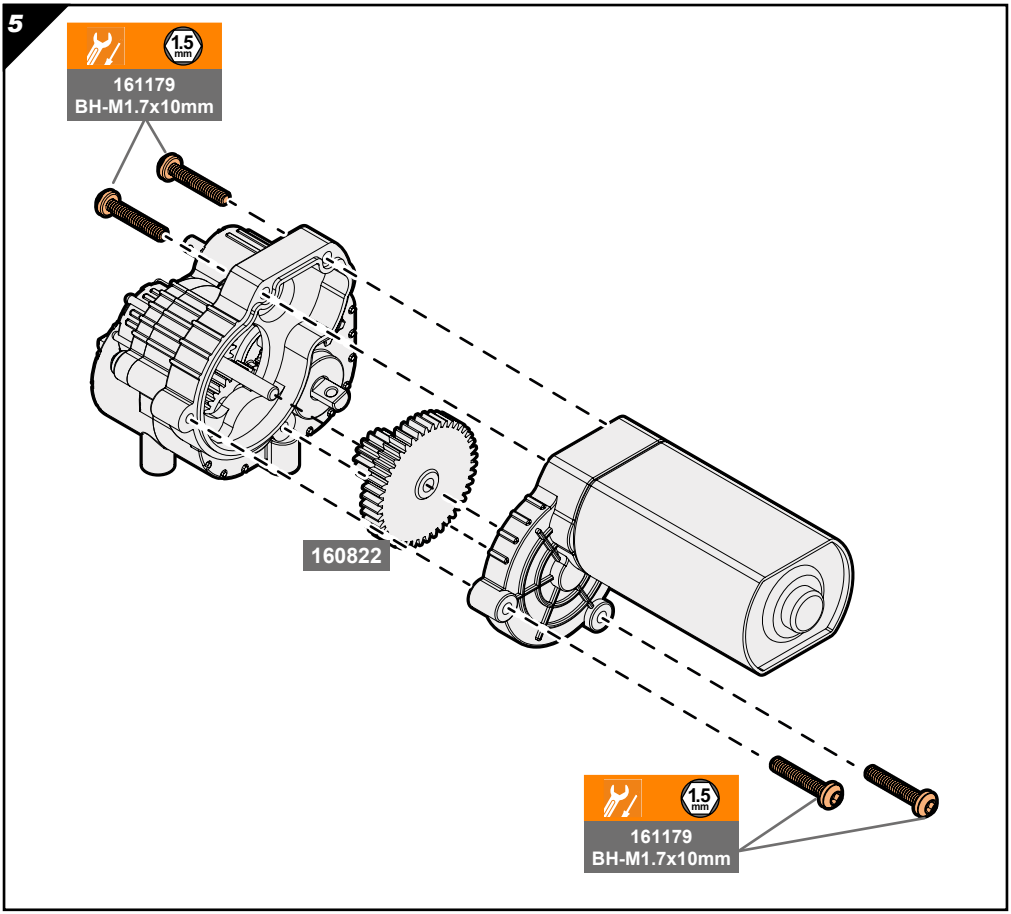




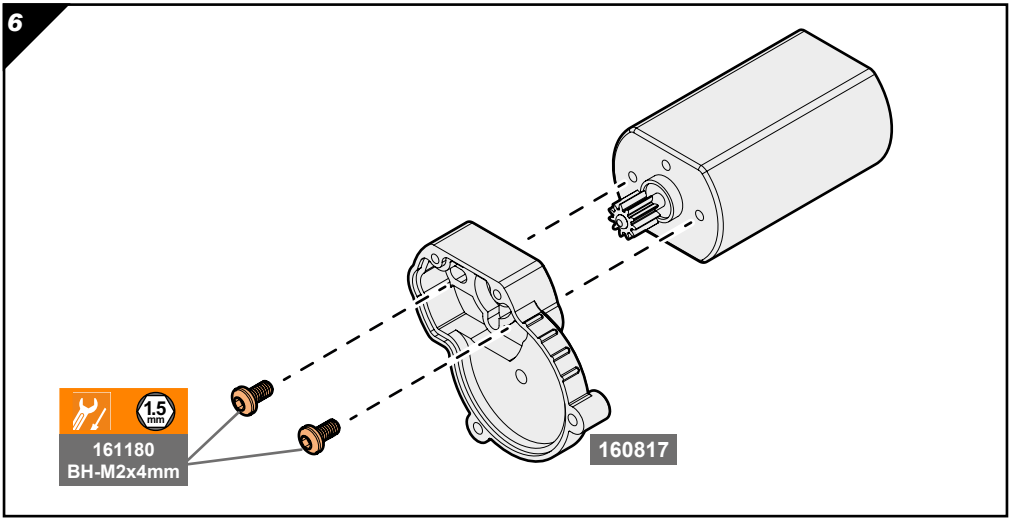




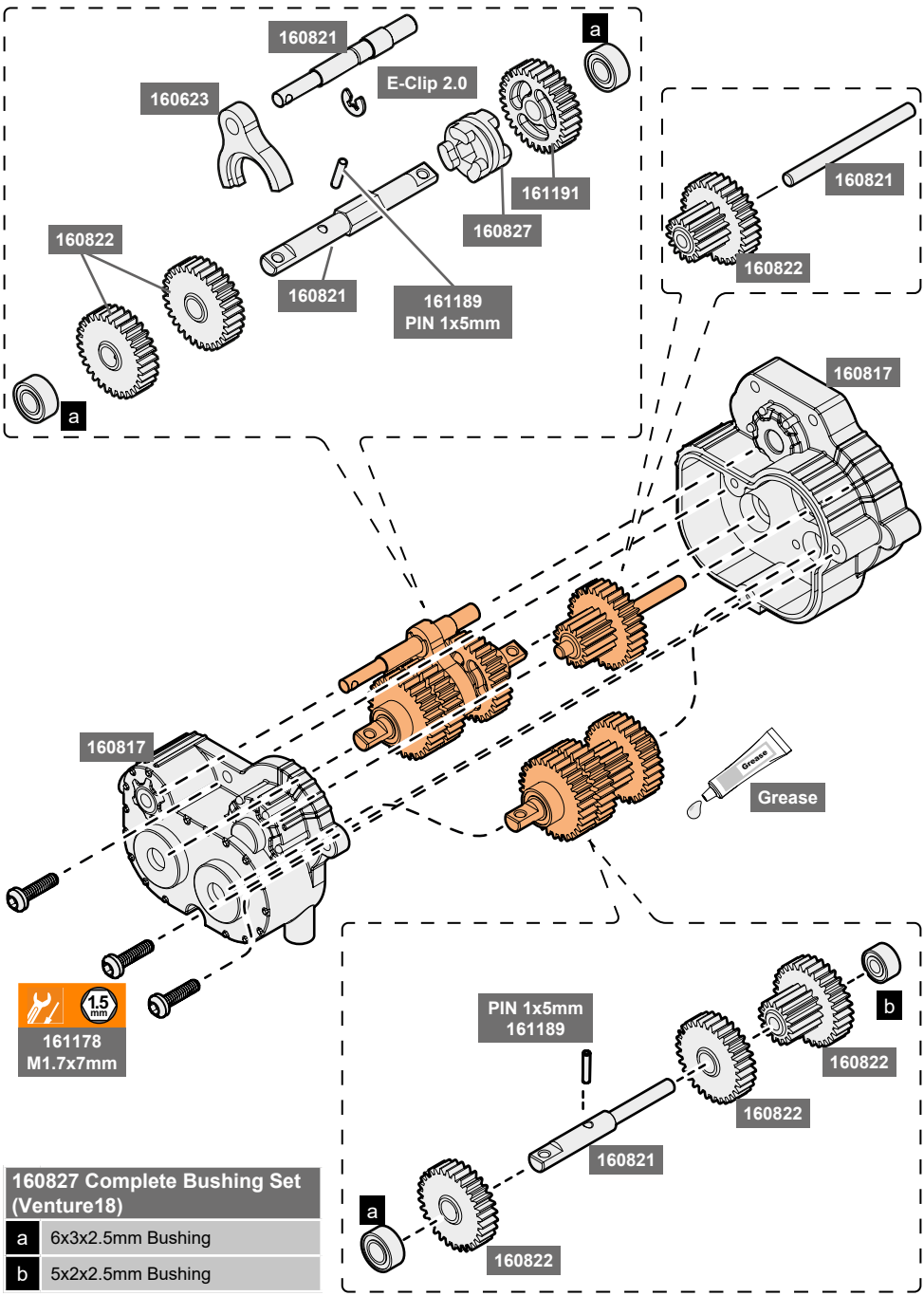
5


161179
BH-M1.7x10mm
160822
161179
BH-M1.7x10mm

6


161180
BH-M2x4mm
160817

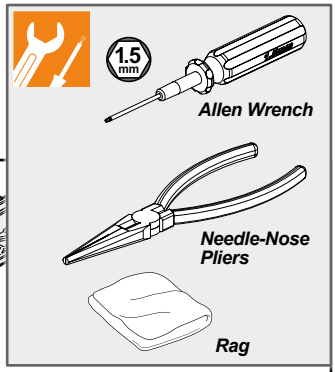
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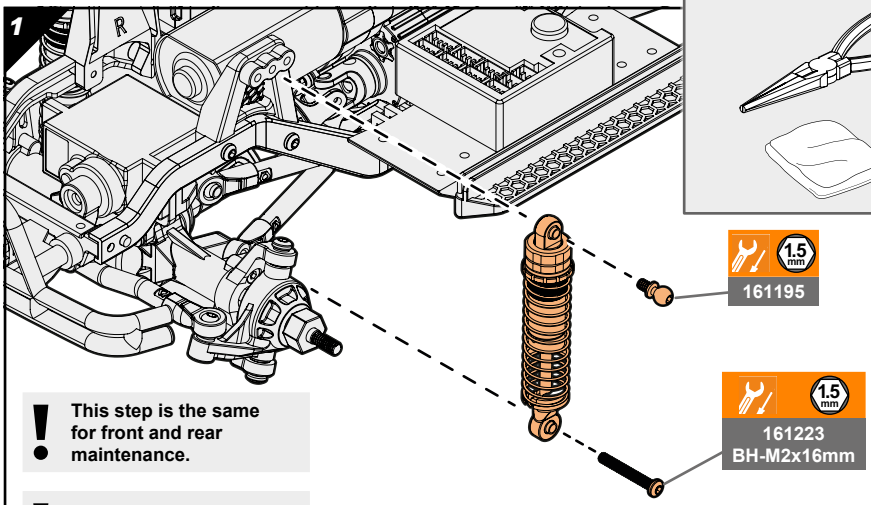
160827 Complete Bushing Set (Venture18)	
a	6x3x2.5mm Bushing
b	5x2x2.5mm Bushing

2-5 *Shock Maintenance*

Examine the shocks for oil leaks. Examine the shock shafts for bends. Repair or replace damaged parts as necessary.



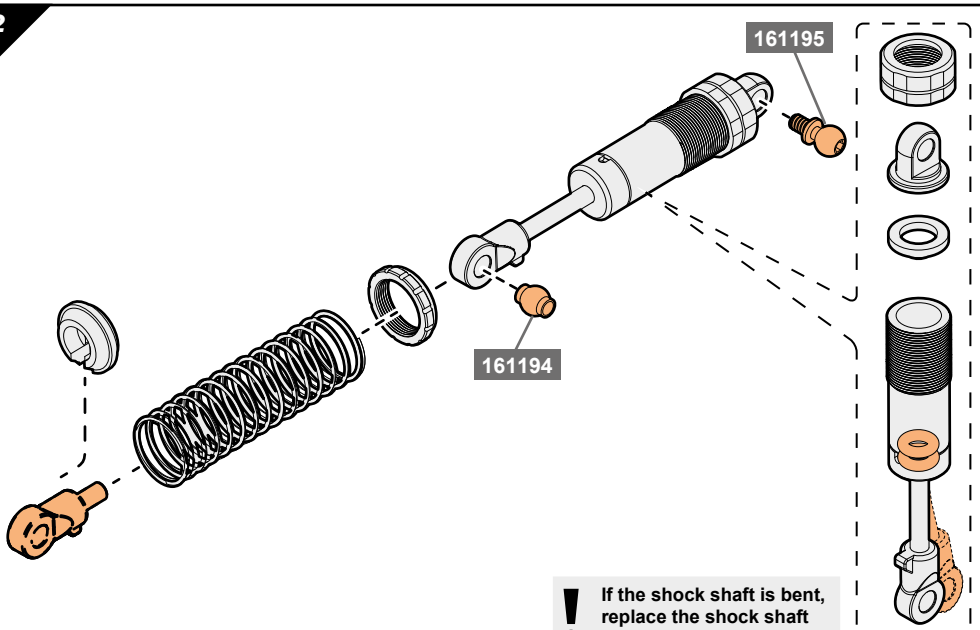
1



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

! This step is the same for left and right.

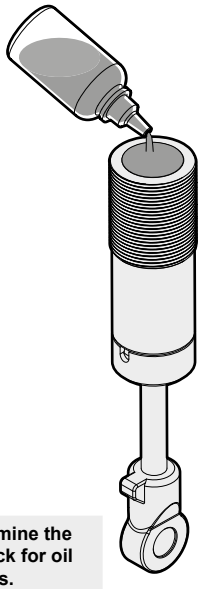
2



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

3

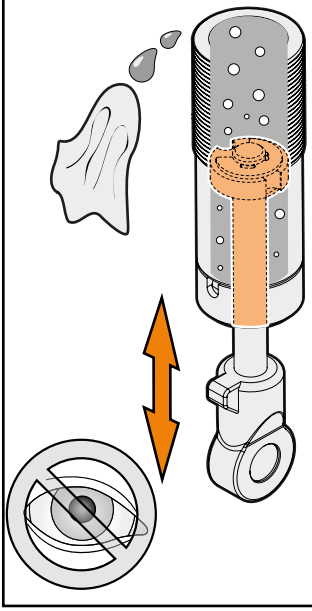
If necessary, refill the shocks with oil (available separately). The original shock oil is equivalent to 100 cSt silicone oil.



Examine the shock for oil leaks.

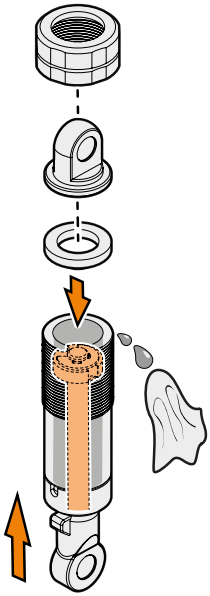
4

Remove excess oil with a rag. Move the shaft up and down slowly to remove all air bubbles.

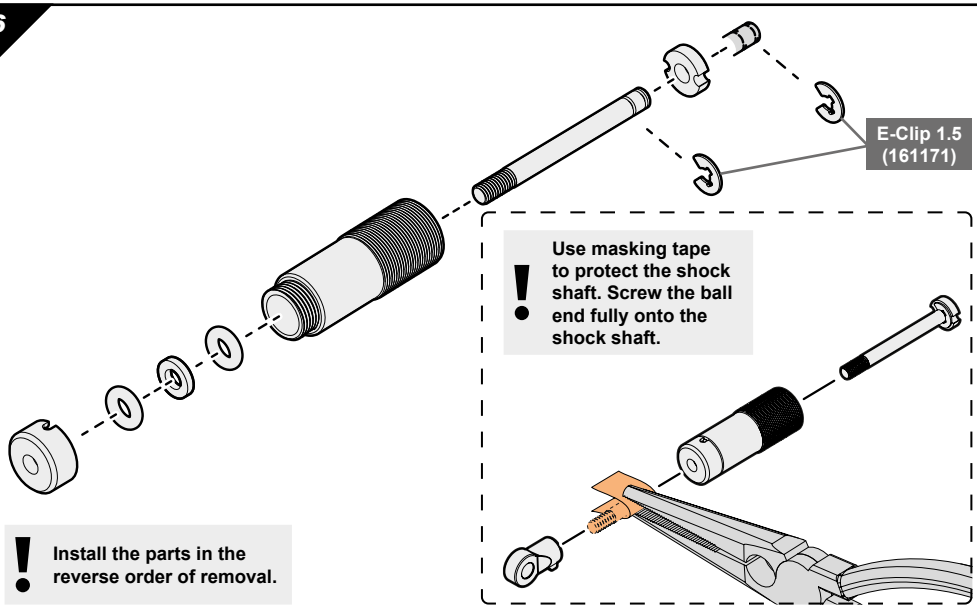


5

Compress the shock shaft fully to remove excess oil. This gives smooth shock movement after assembly.



6



Use masking tape to protect the shock shaft. Screw the ball end fully onto the shock shaft.

Install the parts in the reverse order of removal.



HPI RACING A/S

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