

INSTRUCTION MANUAL

PRIMALRC



1/5 SCALE RAMINATOR MONSTER TRUCK

www.PRIMALRC.COM

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Instruction Videos Available at
PrimalRC.com/Video/TruckInstructions

Terms of Use

This product is sold by Primal RC with the understanding that the buyer accepts full responsibility for all actions associated with its use. Serious injury, property damage, or death can result from driving the monster truck or using any of the included accessories in an unsafe or irresponsible way. The buyer assumes all liability with this product including any actions that occur due to a failure to follow its safety and operating instructions resulting in unsafe or improper use or any action that violates the pertinent laws and regulations. Primal RC, and all the Primal RC dealers, will not be held accountable under any circumstances with the use of this product resulting in property damage, personal injury, or death. This includes any willful or unintentional damages that may arise out of the assembly or use of the product or its accessories. The user accepts all liability by the act of using and operating the truck and releases Primal RC, and all Primal RC dealers of any and all liability associated with its use. Primal RC requests that you do not use this product if you as a user do not accept liability of ownership. If you don't accept liability, please do not open any of the enclosed accessories, do not attempt to start it, and contact us to make arrangements to return the product. Used vehicles cannot be accepted for returns or exchanges under any circumstances. The material included in this manual can be changed without notice. Primal RC reserves the right to make improvements to the products with no commitment to integrate those improvements into products sold previously. The manual is subject to change at the discretion of Primal RC. For the latest version of the manual please visit www.PrimalRC.com.

If you have any questions regarding this Terms of Use, stop and do not go any further. Do not run your vehicle and contact Primal RC at sales@primalrc.com.

Thank you for purchasing the Primal RC 1/5 Scale Monster Truck.

This manual contains the instructions you need to operate and maintain your truck. It is very important that you take the time to read and understand the instructions and radio manual. Make sure you read and follow the precautions and warnings in the Safety Guidelines section. These guidelines will educate you on how to run your truck safely and maximize its longevity and performance.

This truck requires advanced R/C user experience and expertise. You must be 18 years of age or older to operate this vehicle. Even if you are an experienced R/C driver, it is important to read and follow the safety guidelines in this manual.

If you have any questions regarding this vehicle or this manual: Stop. Do not use this vehicle and contact us at sales@primalrc.com.

Thank you again for your purchase and we look forward to exceeding your expectations.

Safety Guidelines



WARNING – RISK OF FIRE, INJURY OR DEATH

The truck is not a toy. The truck requires an advanced set of skills and is not intended for use by children or minors under the age of 18. The truck is intended to be purchased and operated by competent, adult R/C users possessing qualified skills and experienced driving ability. The user of this vehicle should be practical, mature, intelligent and display good common sense.

Caution must be taken to ensure the safety of yourself and others around you. This truck is very large and is capable of high speed and quick acceleration. Collisions of a critical nature (injury, death, severe property damage) can result if the truck is operated in a careless or unsafe manner. Always take great care to make sure all systems are working properly before operating. The user must be aware of their limits and abilities. Make certain to have adequate space where the truck can be run safely.

The truck requires the use of 2-stroke gasoline for its engine. Gas engines and 2-stroke gasoline have a very high risk of fire and injury if they are handled improperly. The truck comes equipped with a Ni-MH receiver battery. Please read and understand the proper procedures for charging the battery.

The user must read and understand all the included instructions regarding the proper operation, maintenance and safety precautions in using a 2-cycle gas engine and charging batteries.

Safety is Your Responsibility

- Your radio system may be subject to radio interference from many sources that are out of your control. Please be aware that radio interference may cause a temporary loss of control. Allow adequate space in all directions when running your truck to prevent collisions if radio interference should occur.
- Test the range of your transmitter in the area you are driving. Make sure not to drive too far and go out of range.
- After testing the range, start by driving slowly in the area to make sure there is no interference that can cause temporary losses of control.
- Always test the failsafe system every time before use to ensure it's working properly (instructions are in the radio manual).
- Use new or freshly charged batteries in order to boost signal output power and range.
- The motor and exhaust become hot during use. Be careful not to touch them while hot to avoid getting burned.
- Drive in the proper area. This product is not designed to be used in heavy traffic areas where its operation would cause pedestrian and vehicle interruptions. This is recommended to prevent collisions causing property damage, injury, or death.
- Try to always bring a friend while driving. Another set of eyes is helpful to identify potential hazards such as an animal or person crossing in the driving path.
- Always have a clear view of the model when driving. Do not drive at night or when your vision may be blocked in any way.
- Don't drive the model too close to you, other persons, or property where collisions may occur. Allow a comfortable amount of space to maneuver the truck.
- Be sure to check over the truck after each driving session. Check for damage or any loose parts and correct any issues right away before using again. Make sure to check and tighten the wheel nuts before each session.
- Do not pick up the truck by its wheels or tires. Keep your hands free and clear of any moving parts when the electronics are turned on. Gravel, dirt, sticks, and other debris can be kicked up from the rear wheels during aggressive starts. Avoid standing directly behind the truck and make sure other watchers are at a safe distance to avoid being hit. Eye protection is always recommended.
- Avoid making changes not shown or suggested in the instruction manual. You can cause damage to the model and injury to yourself or others if the product is altered in a way not intended.
- Remember: SAFETY FIRST. Create a safe environment to run the truck and use good common sense. This will ensure maximal enjoyment while using the truck.

Gas Engine Use Warning

- A mixture of gasoline and 2-stroke oil is used for fuel. Please use caution when handling fuel.
- Keep fuel away from open flames, heating sources, direct sunlight, smoke, batteries or any ignition source. Store fuel in a well-ventilated area.
- Store fuel and truck in a location children can't access.
- Keep fuel and truck away from children.
- Gasoline is flammable, toxic, and can produce noxious vapors. The exhaust emitted from the truck can also produce noxious vapors. These vapors can irritate eyes, respiration, and be dangerous to your health. Always operate the truck in a well-ventilated area.
- The 2-cycle engine that comes on this truck only uses a mix of gasoline and 2-stroke oil. The oil/gas mix is how the engine is lubricated. Never run straight gas through the engine as catastrophic damage may result. Never use glow fuels intended for R/C car use.



WARNING – FIRE RISK: EMPTY THE FUEL TANK BEFORE STORING THE TRUCK.

Assembly Instructions

This truck is shipped in two boxes. One box contains the main chassis with body installed, 3 sticker sheets, two wheels, transmitter, battery, charger and accessories. The second box contains front and rear axle, brake system, two wheels and four shocks.

Before assembling and starting your truck, read and understand all manuals and familiarize yourself with the truck completely. If you decide this truck is not the right choice for you or you do not want to assume responsibility for your safety, then do not attempt to assemble or start it. Do not run the vehicle at all and please contact us to make arrangements to return the vehicle.

If your vehicle arrives with damage from transit please do not run the vehicle, and contact us instead. Used vehicles cannot be accepted for returns or exchanges under any circumstances. If you have any questions about your truck, please email us at sales@primalrc.com. Maintenance and replacement parts may be purchased directly from www.PrimalRC.com.

If you are prepared to assemble the truck, visit our website and view the installation videos.

See instruction video on www.PrimalRC.com/Video/TruckInstructions

Then follow along the instructions provided below. If you do not feel comfortable completing the assembly below. STOP. Do not use the truck. Contact us and we can discuss the concerns with you on the phone or by email.

This truck is intended for users that have extensive experience with gas R/C vehicles and 2-Stroke engines.

1. Position main frame and axles on a surface with enough clearance for assembly.
2. Install the brake rotor on the driveshaft and install the drive shaft pin through the drive shaft and pinion gear shaft.
3. Slide the drive shaft from the axle into the drive shaft coming out of the transmission. Make sure the brake rotor is installed on the axle.
4. Attach the axle to the four links already assembled on the main chassis.
5. Install shocks on the main chassis and axles. Note: hardware is already installed on axles and chassis.
6. Connect the two servo wires to the wires coming out of the receiver box. There is no preference for left or right servos –either servo can go into either plug.
7. Attach top sway bar links to already installed sway bar on the chassis. Then attach lower sway bar links to the axle.
8. Install the brake calipers with one pad on each side of rotor (see diagram assembly instructions #66).

Note: The two bolts that hold the brake pads to the caliper should be installed using RED lock tight at the right position. Without lock tight, these screws will come undone very easily.

10. Install the brake cables (see diagram assembly instructions #66). Make sure to route cables as smoothly as possible for ease of operation. Cables should not be bent sharply. Zip-tie cable in strategic location to avoid snagging during operation. Ensure suspension can travel smoothly without pulling on brake cable. See instruction video on www.primalrc.com/video/TruckInstructions.

11. Initial brake cable adjustment: First, ensure your throttle servo is working properly and giving full throttle to carburetor. Then in neutral (i.e. your throttle is not being applied) slide the brake cables into the brake servo cable splitter. Adjust the stop collars so that the breaks are about to apply as soon as you trigger the transmitter to brake position. This adjustment is something that you will fine tune to your needs. Front and rear bias can also be adjusted at the same time.

See instruction video on www.PrimalRC.com/Video/TruckInstructions.

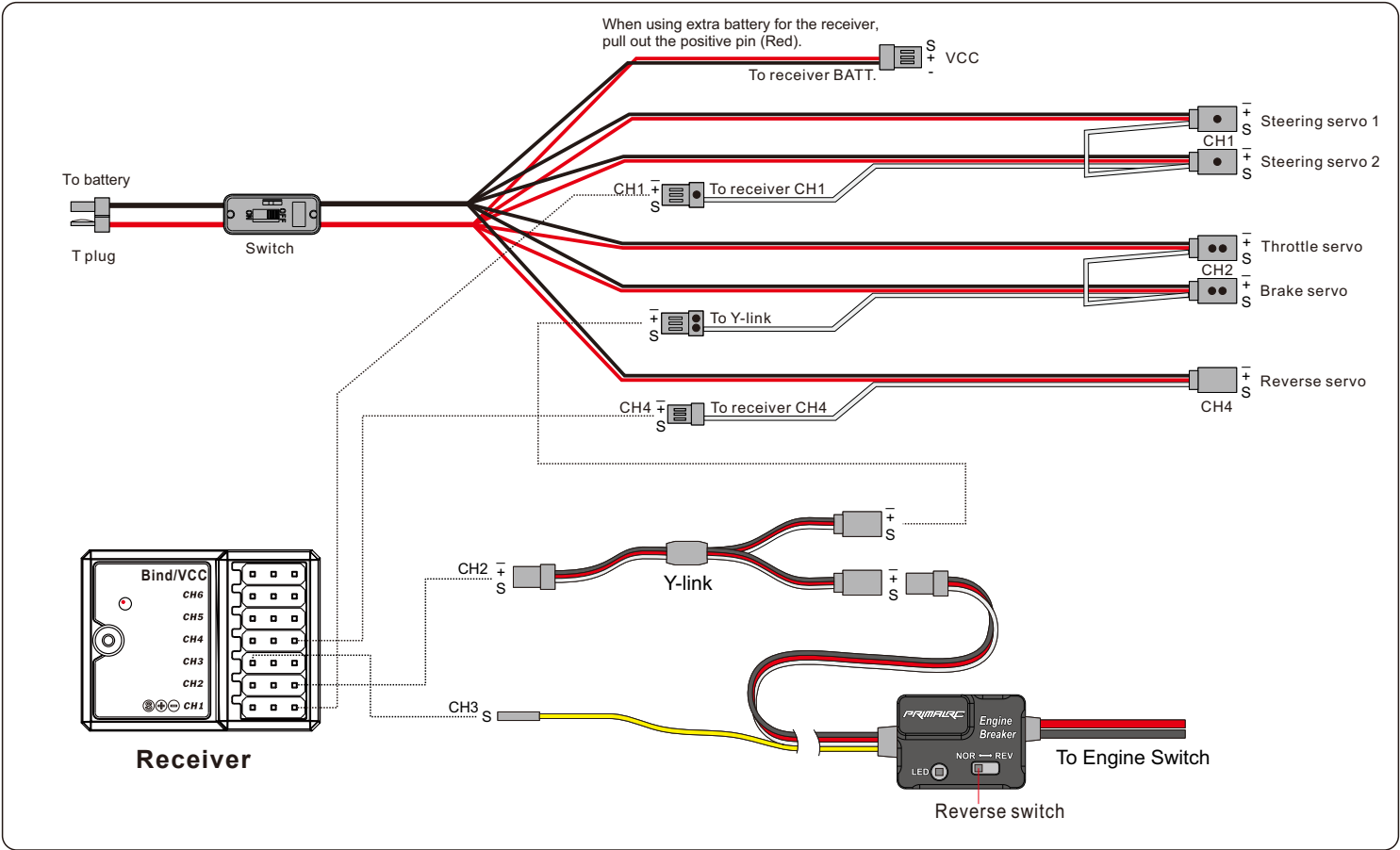
12. Install wheels using supplied lug wrench. The hex nuts have a serrated side, ensure it is facing the rim.
13. Remove protective body film, then install stickers on the body.

See instruction video on www.PrimalRC.com/Video/TruckInstructions.

14. Charge the battery with included charger.
15. Install batteries into transmitter.
16. Follow the instructions in the “Before You Drive”, “Running Your Truck” and “After You Drive” sections of this manual.

Note: Looking at the pictures of the truck on our website can guide you to ensure that you are assembling the truck correctly. Also viewing the instruction videos will give you tips on how to install everything correctly and easily.

Wiring Diagram



REMOTE ENGINE KILL-SWITCH & FAIL SAFE

Features

- 1. If receiver loses signal, the RED LED will light and engine will cut off. The fail safe will also engage the brakes to stop the vehicle.
- 2. The engine can manually be cut off by CH3(AUX) from the transmitter. The RED LED will flash.
- 3. If low battery voltage is detected the RED LED will light and engine will cut off.

Setup

DON'T start the engine yet!

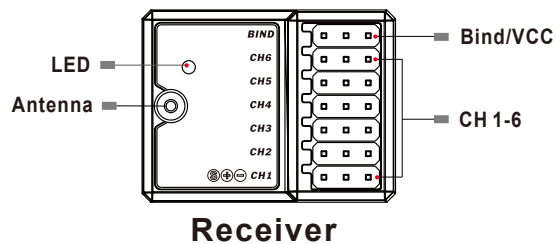
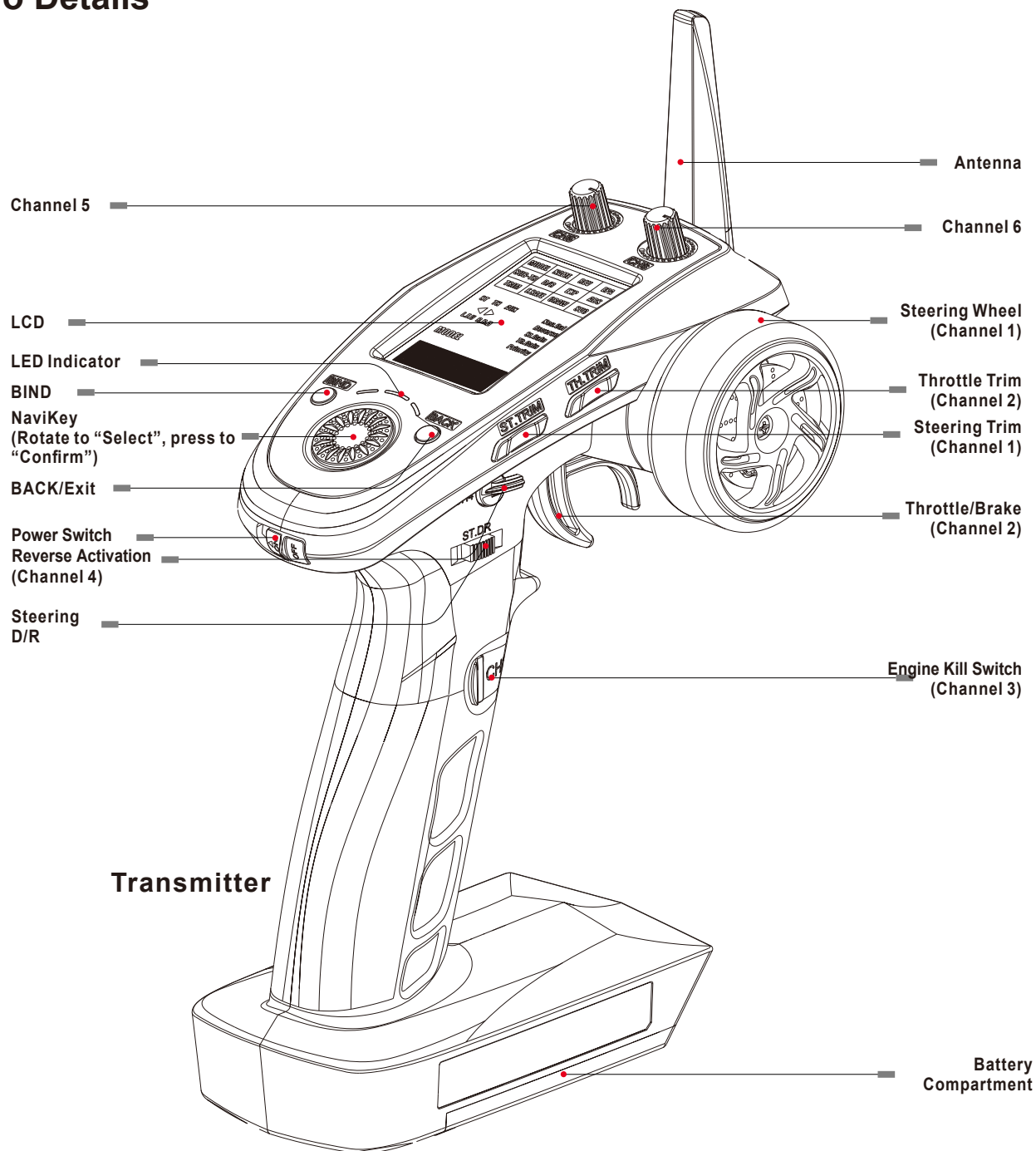
Hold the throttle trigger fully to the brake position and set the brake end point adjustment (EPA) to 100%. The RED LED should light signaling an engine cut-off. If the LED doesn't light, toggle the REVERSE SWITCH and try again. As you setup the receiver's Fail-Saf function, push the throttle trigger to full brake. Once the Fail-Safe function is setup, return the EPA to its original setting. To verify the Fail-Safe function has been correctly set, turn off the transmitter. The RED LED should turn on.

If everything is setup and connected correctly the GREEN LED will light up and you're ready start the engine.
The engine can be manually cut-off at any time by pressing the CH3(AUX) button. The RED LED will blink red when successful.

LED Status Display

LED	DESCRIPTION	Engine status
Green	System Ready	Can start
Red	Low Battery Voltage or no signal	Cut-off
Red Blinking	CH3(AUX) is on	Cut-off

Radio Details



Binding setup

The transmitter and receiver have been pre-bound. If you are using another transmitter or receiver, follow the steps below to bind the transmitter and receiver:

1. Connect the bind cable to the receiver's B/VCC port.
2. Connect power to any other port.
3. Press and hold the transmitter's bind key and turn on the transmitter at the same time.
4. Once binding is complete the transmitter will exit bind mode. Remove the power and bind cable from the receiver then apply power to the B/VCC port.
5. Check to make sure everything functions as expected. If not repeat the steps above.

Before You Drive

It is extremely important that you read, understand, and follow all instructions in the manuals included with this truck in order to prevent serious damage to your truck, yourself, and your property. If the user fails to follow these instructions, it will be considered negligence.

Before assembling and starting your truck, read and understand all manuals and familiarize yourself with the truck completely. If you decide this truck is not the right choice for your or you do not want to assume responsibility for your safety, then do not attempt to start it. Do not run the vehicle at all and please contact us to make arrangements to return your vehicle.

Used vehicles cannot be accepted for returns or exchanges under any circumstances. If you have any questions about your truck, please email us at sales@primalrc.com. Maintenance and replacement parts may be purchased directly from www.PrimalRC.com.

Follow these steps before each drive session:

1. Mix Gas and 2-Stroke Oil
 - Pump gasoline – 87 octane or higher – ethanol-free gas is highly recommended
 - 2-stroke oil. Amsoil Saber (recommended): **Mix 25:1** ratio (gas/oil)
2. Check to make sure you have a fully charged receiver/servo battery in truck.
3. Check to make sure your transmitter batteries are good.
4. Check all servos (Steering, Throttle, Brake, Reverse).
 - **DON'T** start your vehicle's engine yet!
 - Turn your transmitter on.
 - Turn the truck's battery switch on (located in the back of roll cage).
 - Hold the trigger on the transmitter into full brake position. Confirm that the brakes prevent the truck from moving when you try to push it. If it rolls easily adjust brakes as described in the Assembly Instructions section above.
 - Test left and right steering servos by lifting the front of the truck and moving the servos via the transmitter. Ensure the servos are moving smoothly and there is no excessive play or binding. Adjust as necessary.
 - Test throttle servo by giving full throttle and ensure carburetor is moving to full throttle position.
5. Check Remote Engine Kill Switch:
 - **DON'T** start your vehicle's engine yet!
 - Make sure the Manual Engine switch is ON (located on frame under front right wheel well).
 - The Remote Engine Kill switch system is located on the truck near your receiver box and has an LED light. The light is GREEN when it is ready to start and run. If the light is RED this means the Remote Kill switch is on and your engine will not start. Your transmitter's third channel button operates the Remote Kill switch.
 - To test the Remote Kill switch, press the third channel button on the transmitter. The light should turn RED. Press it again to change it back to GREEN before you run the truck.
6. Check the Radio Fail Safe: The radio system that comes with the truck has a fail safe automatically installed ensuring that if your transmitter's signal is not reaching your truck's receiver the brakes will be applied automatically. To test:
 - **DON'T** start your vehicle's engine yet!
 - Turn your transmitter on.
 - Turn the truck's battery switch on (located in the back of roll cage).
 - Turn your transmitter off.
 - Your brake servo should now apply the brake on its own.
 - You have now confirmed that the failsafe is working. Should the receiver lose signal from the transmitter, the brake will automatically be applied.
 - Turn your transmitter back on for normal use.
7. Go over truck to make sure there are no loose screws.
8. Check lug nuts by tightening with provided wrench. Ensure the serrated side of hex nut is facing the rim.

Running Your Truck

1. Add 2-Stroke gas and oil mix to gas tank.
2. Turn your transmitter on.
3. Turn the truck's battery switch on (located in the back of roll cage).
4. Make sure your Manual Engine switch is set to the ON position (located on frame under front right wheel well).
5. Move choke lever to full choke position.
6. Push primer bulb several times, until you see gas going through carburetor and back into gas tank lines.
7. Pull start the engine with a steady, smooth, quick pull until you hear the first pop of the engine trying to start. This is an easy pull start system. There is no need for aggressive, quick pulls. Do not over-extend the pull-start or your pull starter may become damaged.
8. Flip the choke lever to off position (down). Make sure it stays in position.
9. Pull start the engine again with short, quick pulls until your engine starts.
Sometimes a little throttle input from the transmitter may be necessary to start the engine.
Be careful to not give too much gas – it may result in the engine flooding.
10. If you are running the truck for the first time, engine break-in is recommended.
The engine break-in process alternates heating and cooling the engine to allow all parts of engine to properly seat themselves. It also allows 2-stroke oil from the incoming fuel to coat the interior parts of the engine.





Run the engine at varying speeds for periods of 3 to 10 minutes at a time. During this break-in process, never go full throttle.

Try to stay below half throttle. Always let the engine idle for 30 seconds before turning it off. Allow the engine to cool off for 10 minutes before starting it again. Repeat this process 3 or 4 times (3 or 4 full heat cycles).

11. Reverse Driving Instructions


To drive the truck in reverse, **ensure that the truck has come to a complete stop**, then switch channel 4 from the transmitter. Switch to the opposite position – it's a 3-position switch, so be sure to toggle between the furthest positions. This will cause the servo to active the reverse function in the transmission. Test this by giving it a little gas to confirm that reverse is engaged. You may need to toggle the switch ON and OFF again to engage if reverse is not working.


To go back to forward driving repeat the process of **bringing the truck to a stop** and then switching channel 4 to the opposite position.

-  **Note:** Because of the size and weight of the truck, try to avoid steering the truck while it is not moving. This will extend the life of your steering servos.
-  **Note:** This truck is not waterproof. Do not submerge this truck in deep water. Small puddles or shallow water should not be a problem.
-  **Note:** If you are planning on driving this truck in excessive dirt, we recommend that you remove the installed choke. Follow the Choke Removal Instructions in this manual. It might be more difficult to start the truck without the choke, however, your engine will last longer because this choke system can let dirt into your engine.
-  **Note:** Using a 2S LiPo battery is possible and will provide better steering power, however, the large current will shorten the life span of the smaller throttle and reverse servos. If you use a LiPo battery, we recommend that you upgrade the throttle and reverse servos to high-voltage servos.

After You Drive

- Be sure to let the engine idle for 30 seconds to cool before stopping the engine.
- Press the Kill Switch button (channel 3) on your transmitter to shut the engine off.
- Turn battery switch OFF (located in the back of roll cage).
- Turn your transmitter OFF.

 **VERY IMPORTANT: ALWAYS** turn off the truck first, then the receiver, then the transmitter in that order. If your receiver or battery switch is left ON and your transmitter is OFF the failsafe will cause the servos to overheat and eventually burn out.

-  If your truck is wet or dirty, we recommend rinsing the dirt off with a gentle stream of water and then using compressed air to dry it off.
- **Important!** Lubricate joint areas and moving parts with WD40 to prevent rust and keep truck working properly for many years to come.
(example: wheel bearings, suspension links, drive shafts, servo cables)
- Inspect the truck for loose screws, broken and missing parts. We recommend blue lock-tight for screws that are threaded into aluminum parts that do not have nylon lock nuts.
- If you are storing your truck for a month or more, we recommend draining the gas out of the tank and carburetor.

Love your truck by taking good care of it and it will love you back.

Choke Removal Instructions

- Watch the instruction video at www.PrimalRC.com/Video/TruckInstructions.
- Loosen air filter clamp and slide air filter off.
- Remove the two screws that are holding the choke system onto the carburetor. To prevent the carburetor from falling off while you remove the screws, hold the carburetor in place.
- Remove the choke plate and lever system and reinstall the velocity stack directly onto the carburetor using the same two screws that you removed earlier, but install 2 additional lock washers on each bolt to act as spacers and allow for proper tightening.
- Reinstall the air filter and tighten the clamp.

Steering Servo Saver Adjustments

The steering system has both servos linked to an adjustable centralized servo saver system. This system helps keep the servos from being damaged when force is put on the front wheels. You can adjust the sensitivity of the system by loosening or tightening the large hex nut on the servo saver spring. Tightening the spring will allow more control of the steering, however the servos will be more vulnerable to damage upon impact. Loosening the spring will reduce steering control, but offer more protection for the servos. Finding the optimal ratio is a matter of personal preference, so test different settings to find one that you prefer.

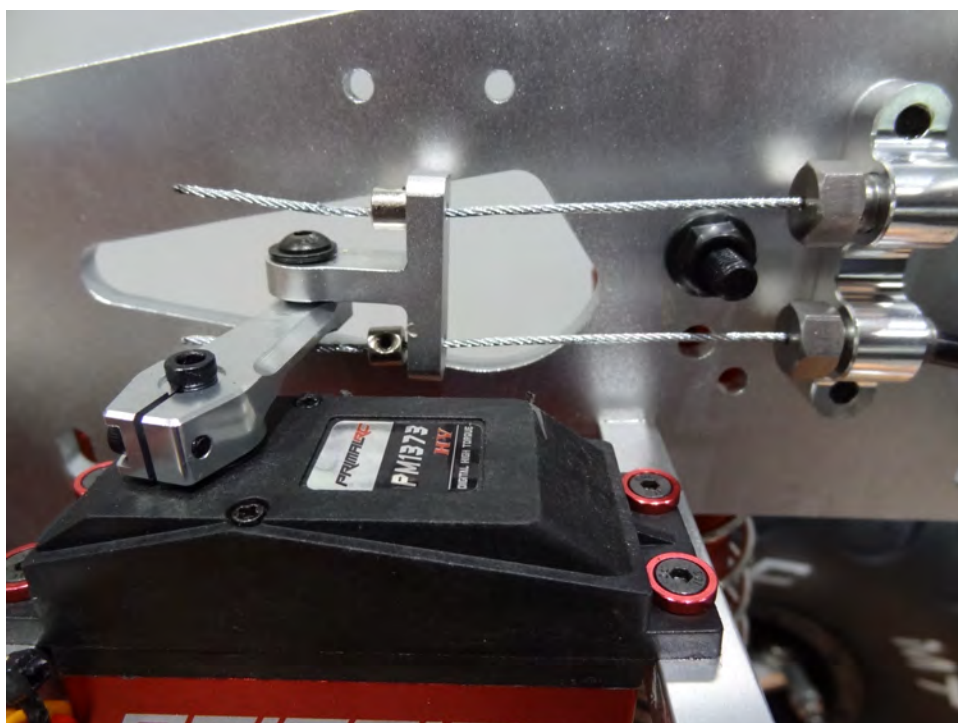
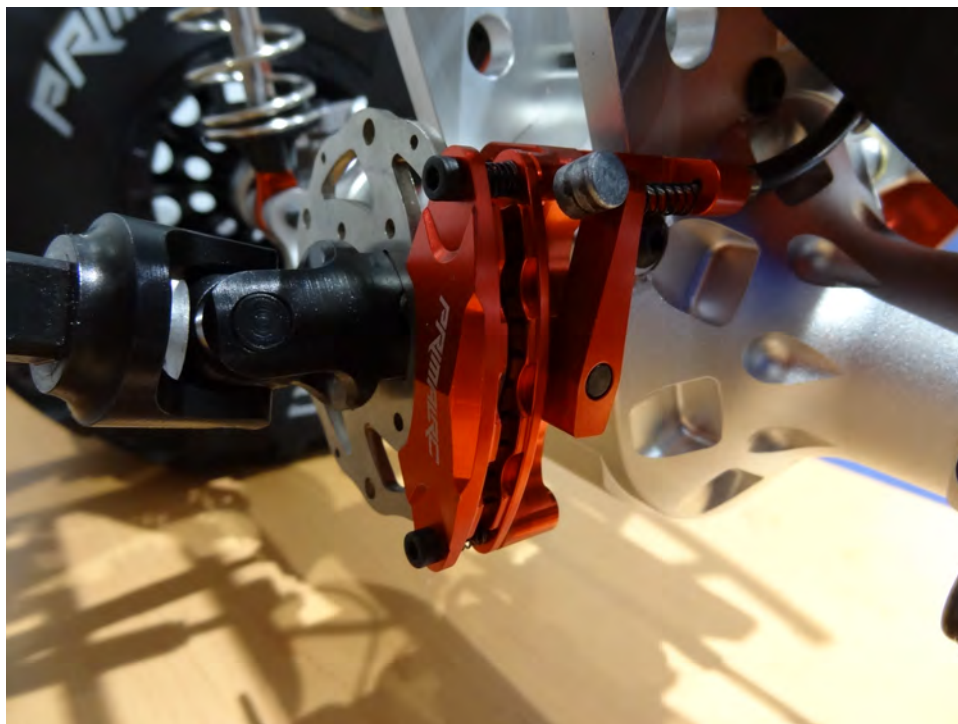


Brake Adjustments

Watch the instruction video at www.PrimalRC.com/Video/TruckInstructions.

Because the brake system is on the drive shafts, this truck can stop very quickly. If your truck is not stopping quickly brake adjustment is necessary.

This may include changing brake pads and/or rotors, adjusting brake cable tension, and adjusting servo end points. We recommend that you watch our detailed videos online to learn how to adjust your brakes.



Transmission Gears Adjustment

The truck uses a single-speed transmission that has five different gear ratios to choose from. The mid-range gear set is installed in the truck out-of-the-box (spur/pinion ratio 25:25). Other gear sets that are included with your truck change the driving and power experience. For crawling, we recommend switching to 20:30 or 23:27 ratio. We recommend 27:23 and 30:20 for optional high-performance engines with greater speeds.

The installed ratio is (25:25) is a good overall gear set that we recommend for common use.

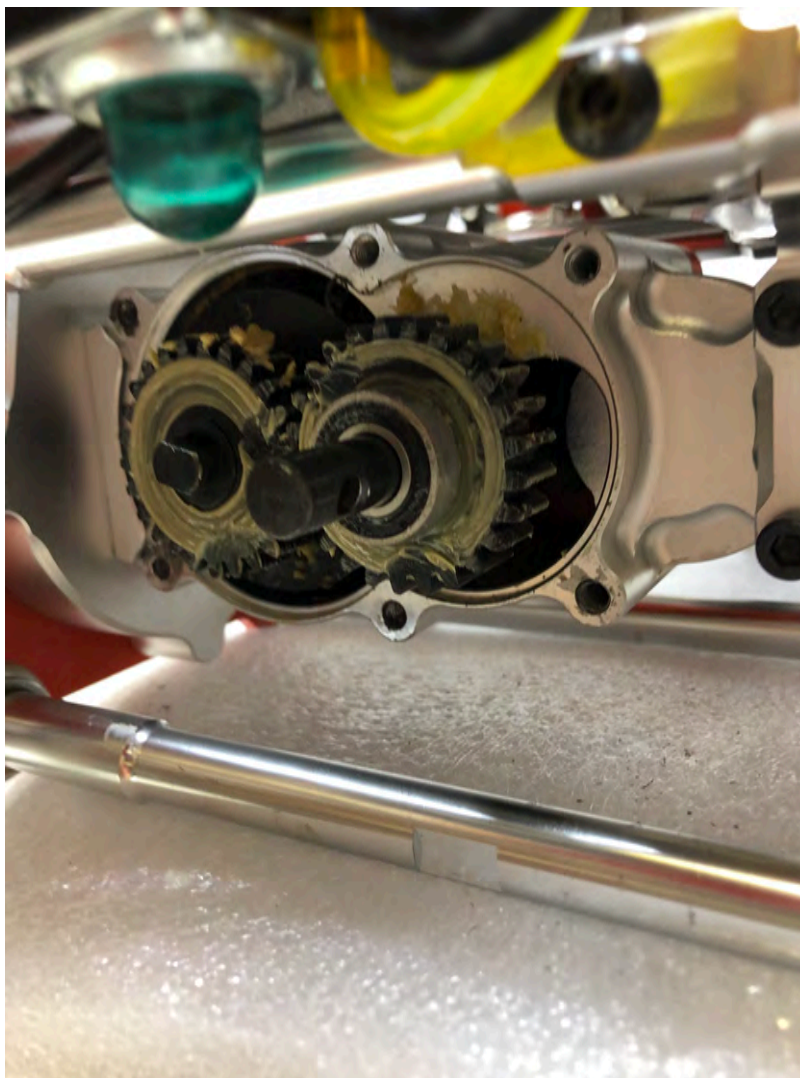
To change the gearing in the transmission: (See diagrams #24 and #25 in this instruction manual)

- Remove the rear drive shaft from the rear output shaft of the transmission (a 4mm hex pin holds it in place).
- Remove the six screws (4mm hex) from the transmission case.
- Remove transmission cover and the two ball bearings that hold the gears on.
- Slide off the two gears and install the gear set with your preferred ratio (pinion gear on the left, spur gear on the right which is also transmission output shaft)

Note: Ensure that the gears are greased. You can use the grease that is already in the transmission.

Note: The smaller the pinion gear, the slower the truck will drive, but the more low-speed power it will have.

- Reinstall the two bearings, the cover and the rear drive shaft to their original positions.



Troubleshooting Guide

The engine doesn't start or is not running well

- o Make sure your gas and oil are mixed properly.
Mix Gas and 2-Stroke Oil
 - Pump gasoline – 87 octane or higher – ethanol-free gas is highly recommended
 - 2-stroke oil. Amsoil Saber (recommended)
 - Mixed 25:1 ratio (gas/oil)
- o Follow the instructions in this manual for “Running Your Truck”. If your truck still does not start, try the following:
 - Check to make sure your spark plug is clean and working. Remove the plug from the engine and inspect the tip. If it is clogged, it will need to be cleaned or replaced. After the plug is removed, check if the plug is working by:
 - o Attaching the wire to the top of the plug
 - o Placing the tip of the plug very close to the metal of the cylinder.
 - o Pull the pull start a few times. A spark should jump from the plug to the cylinder. If no spark or a weak spark is observed, replace the plug, ensure the ignition coil and flywheel are properly gapped, then check again.
 - o If still no spark - you likely have a problem with the ignition coil and will need to replace it.
 - The Remote Kill Switch may not be working properly and will need to be tested.
 - Check to make sure your carburetor is properly tuned. You may need to adjust the screw slightly in either direction to find correct tuning for your carb.
 - Your engine may be flooded. This can happen if you have pushed the primer bulb many times, or pulled the pull start a lot of times.
 - o Remove the spark plug and allow all the fuel in the cylinder to evaporate.
 - Your compression may be bad. If you have an older engine, the piston rings may need replacement.
 - Check your carb gasket, intake gasket, cylinder gasket, and crankcase gasket. Can you hear air whooshing out of the cylinder gasket or crankcase gasket when you pull the starter? Is air leaking in the manifold gasket behind the carb?
 - o A gasket leak results in a loss of compression and/or improperly mixed fuel and air. An easy way to check for intake leaks is to spray the intake manifold and area surrounding it with WD-40. If the idle changes after you spray the WD-40, there is an intake air leak.
 - o Common areas for leaks are between the manifold and the cylinder, and between the carb and the intake manifold. Inspect the manifold, carb gasket, and intake gasket for cracks or other signs of damage, replace if necessary.
 - Make sure your gas cap is venting properly. There should be a small hole in the plastic cap and bladder. If it becomes blocked or clogged it can cause issues. Also check to make sure fuel lines are connected correctly, the fuel lines aren't cut, and the fuel filter is attached.
 - Make sure there is no debris (grass/dirt/etc.) clogging the pull start, air filter or engine. This can result in the engine running too hot and becoming overheated.

Troubleshooting Guide (continued)

The engine doesn't idle well

- o If the idle is too low, turn the carburetor idle screw clockwise to raise idle. If the idle is too high turn it counterclockwise until the desired idle is reached. Idling as low as possible is recommended without the engine stalling. The clutch may start to engage, preventing the reverse function from working properly.

The servos aren't responding, or the transmitter is not connecting

- o Check that transmitter switch is on
- o Check that truck's battery switch is on
- o Check the wire connections. Make sure they're intact and connected properly.
- o Check that your batteries are charged
- o Check to make sure your transmitter and receiver are bound.

The servos aren't moving in correct direction

- o Check servo reverse functions on the transmitter.

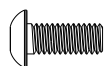
The brakes are not working, but the brake servos are moving

- o Adjust cable wire to ensure that the brake is pulling properly on the calipers.
- o Check to make sure brake pads are not worn out.
- o Check that drive line axle pins and driveshaft pins are not broken.

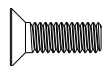
Reverse is not working

- o Make sure you stop the truck from rolling before switching to reverse.
- o Check that your idle is low. If idle is too high, The clutch may start to engage, preventing the reverse function from working properly.
- o Adjust the reverse servo cable to ensure that it is pulling enough to engage reverse properly.

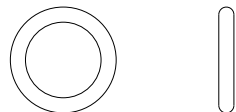
1 Differential Assembly



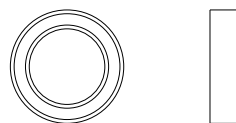
MBS4010
M4×10mm ×4



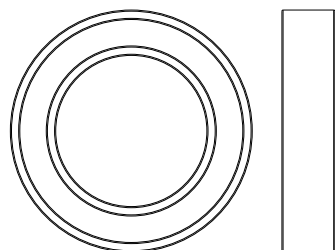
MFS4012
M4×12mm ×8



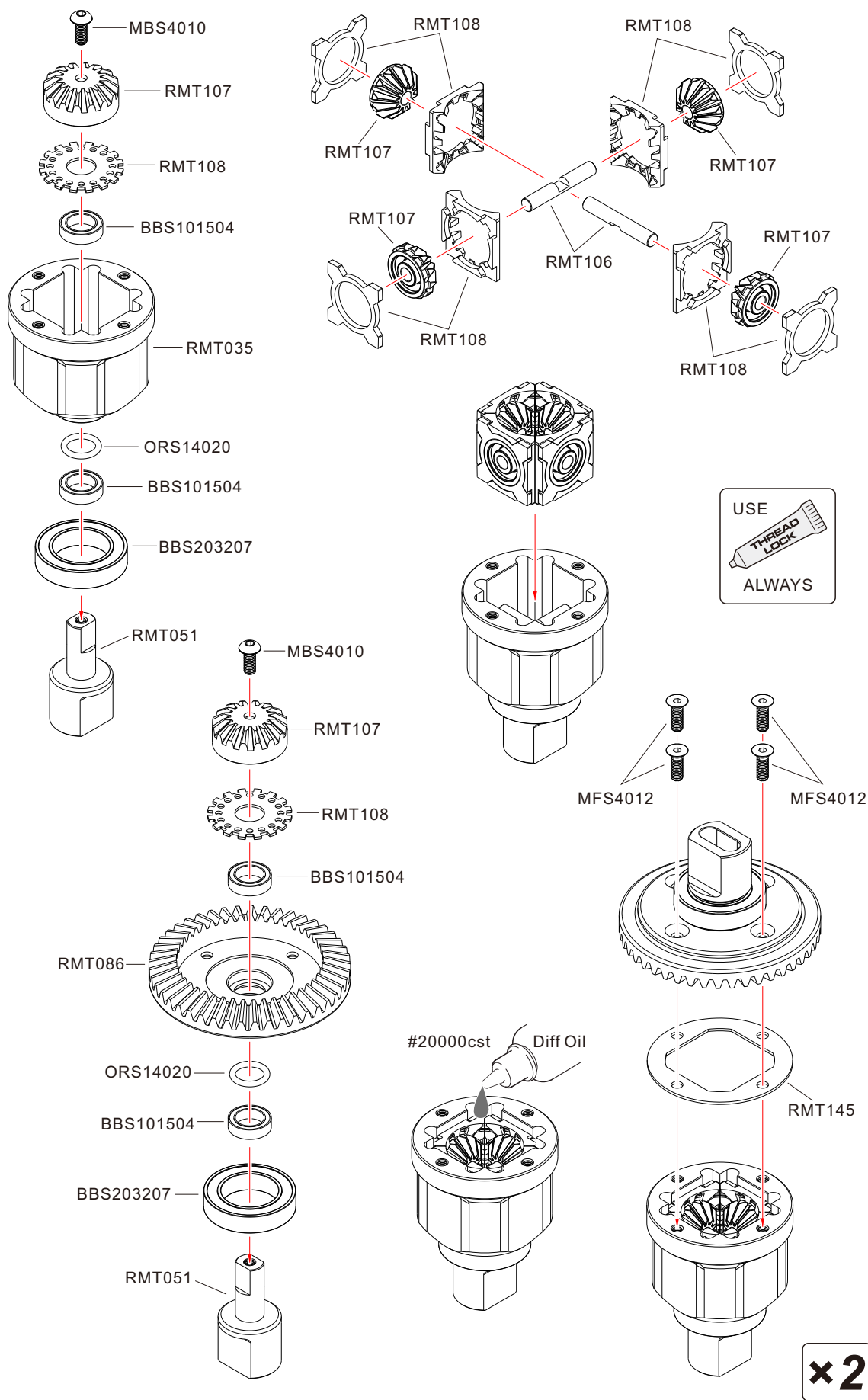
ORS14020
O-Ring D14×2mm ×4



BBS101504
Bearing 10×15×4mm ×8



BBS203207
Bearing 20×32×7mm ×4



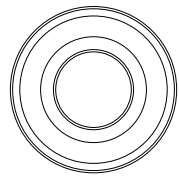
2 Front Axle Assembly



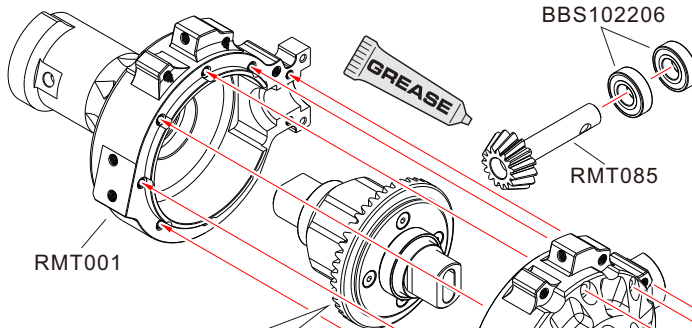
MCS4020
M4x20mm ×2



MCS5040
M5x40mm ×7

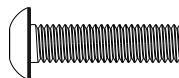
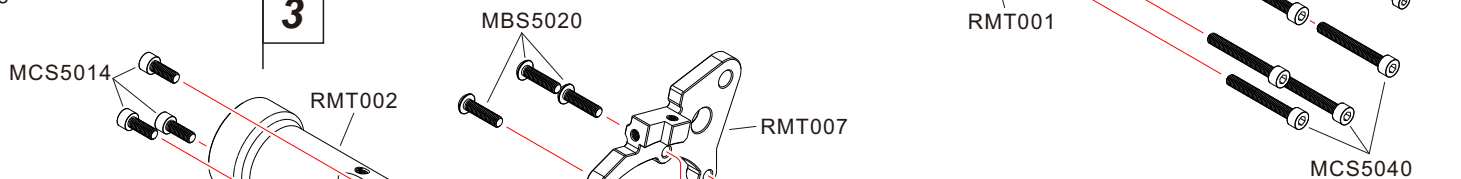


BBS102206
Bearing 10x22x6mm ×2

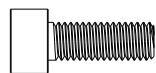


USE
THREAD
LOCK
ALWAYS

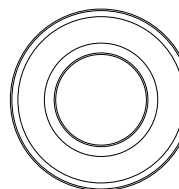
3



MBS5020
M5x20mm ×6



MCS5014
M5x14mm ×6



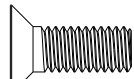
BBS122406
Bearing 12x24x6mm ×4



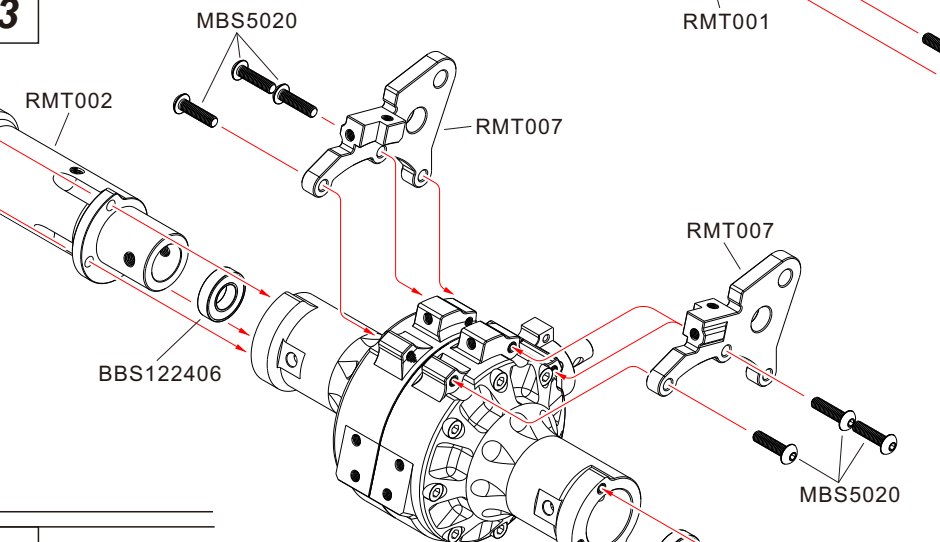
MCS5016
M5x16mm ×8



MCS5020
M5x20mm ×4

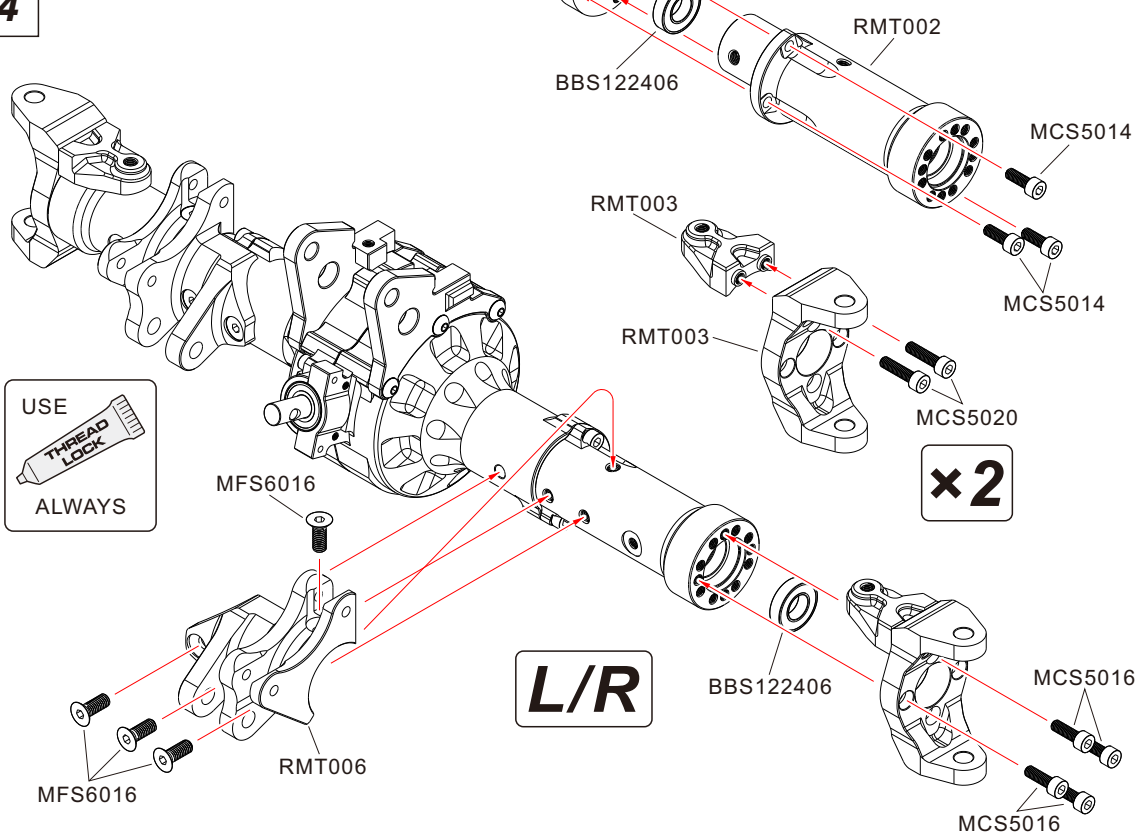


MFS6016
M6x16mm ×8



USE
THREAD
LOCK
ALWAYS

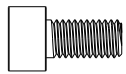
4



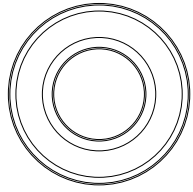
USE
THREAD
LOCK
ALWAYS

×2

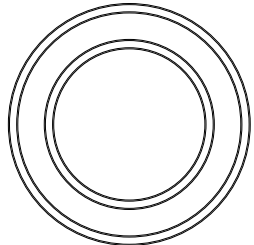
L/R



MCS5010
M5x10mm ×2



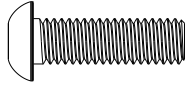
BBS122406
Bearing 12x24x6mm ×2



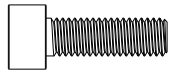
BBS203207
Bearing 20x32x7mm ×2



PINS5024
M5x24mm ×2



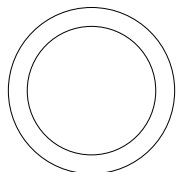
MBS6020
M6x20mm ×6



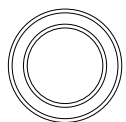
MCS5016
M5x16mm ×1



MBS5016
M5x16mm ×2

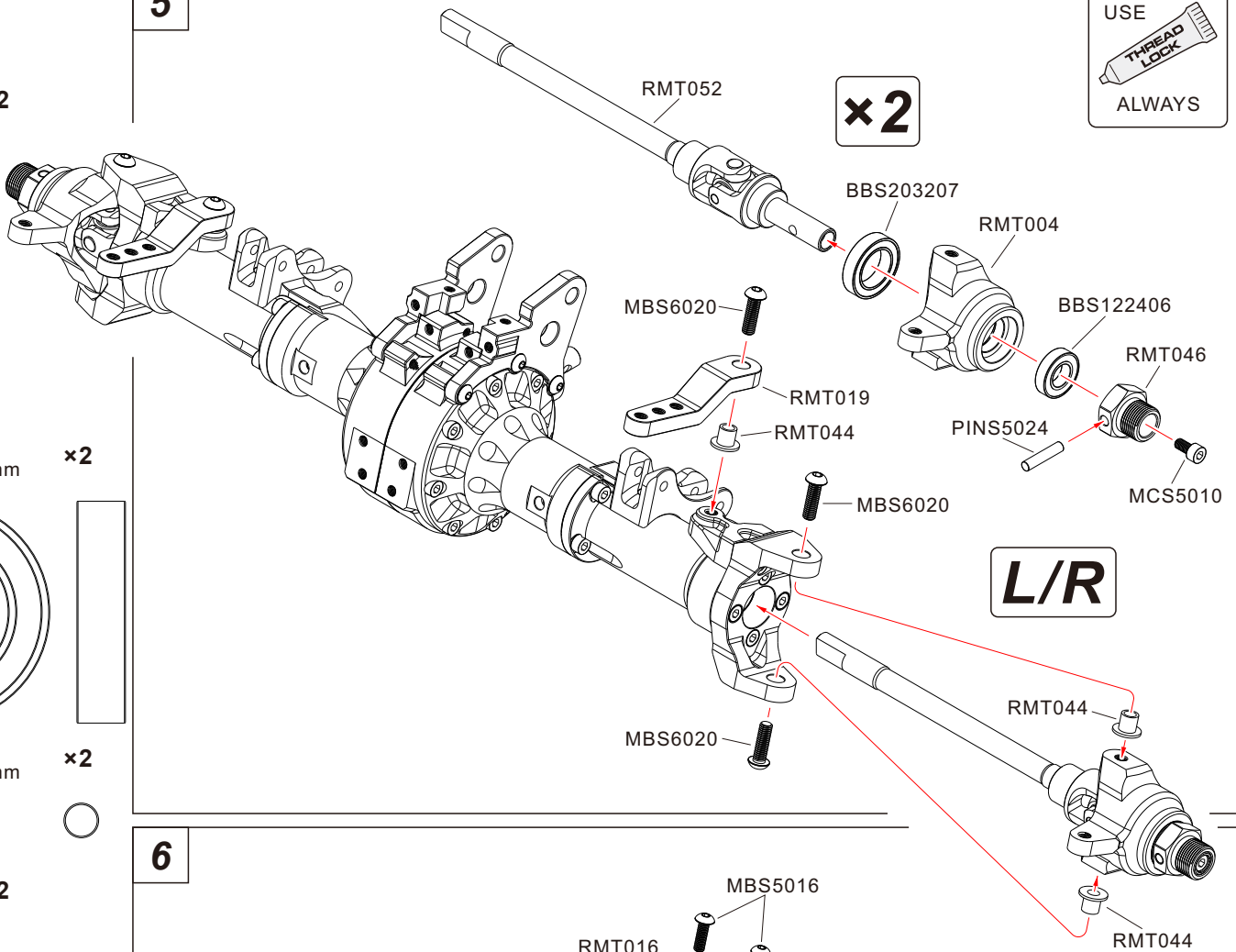


ORS22025
O-Ring D22x2.5mm ×1

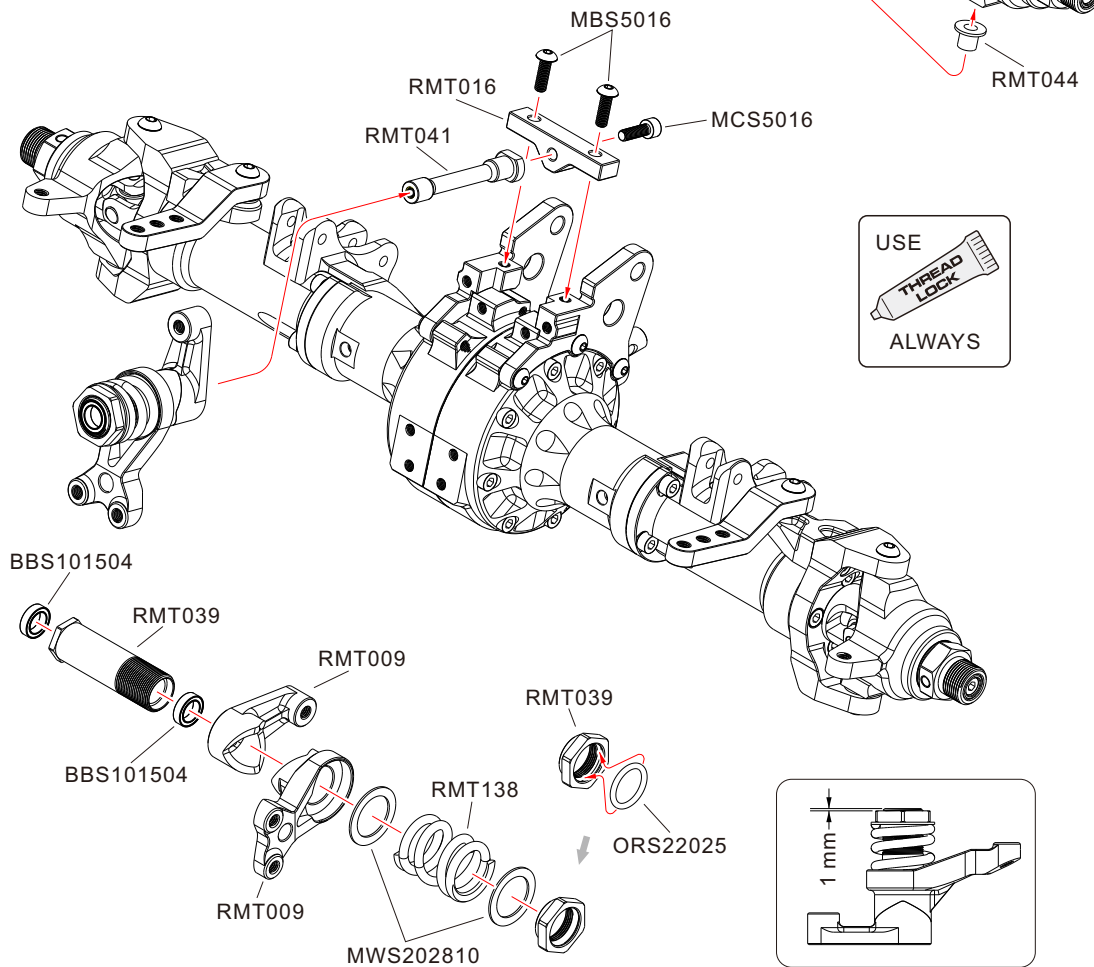


BBS101504
Bearing 10x15x4mm ×2

5



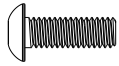
6





MFS3014
M3×14mm

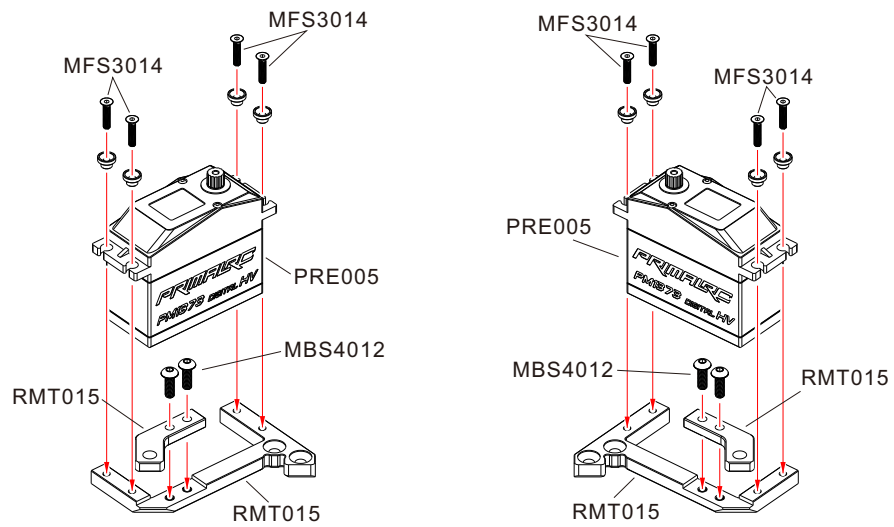
×8



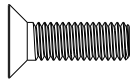
MBS4012
M4×12mm

×4

7

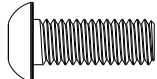


USE
THREAD
LOCK
ALWAYS



MFS5016
M5×16mm

×4



MBS6016
M6×16mm

×2



MCS2508
M2.5×8mm

×2



MCS3008
M3×8mm

×2



MCS3012
M3×12mm

×2



MBS4012
M4×12mm

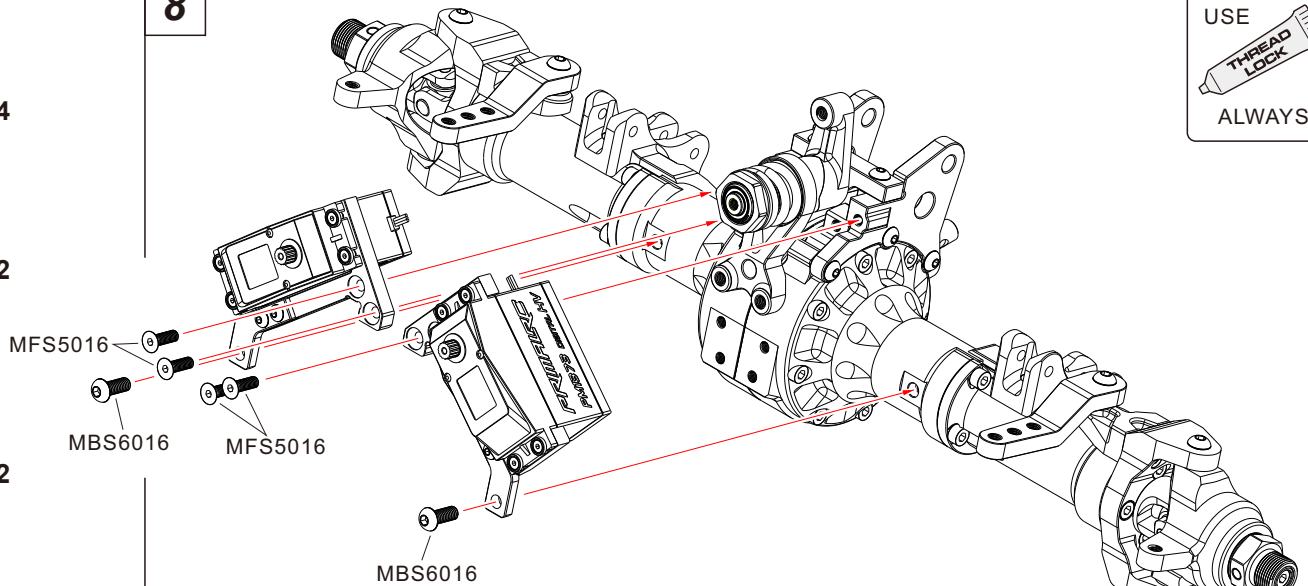
×2



MBS6040
M6×40mm

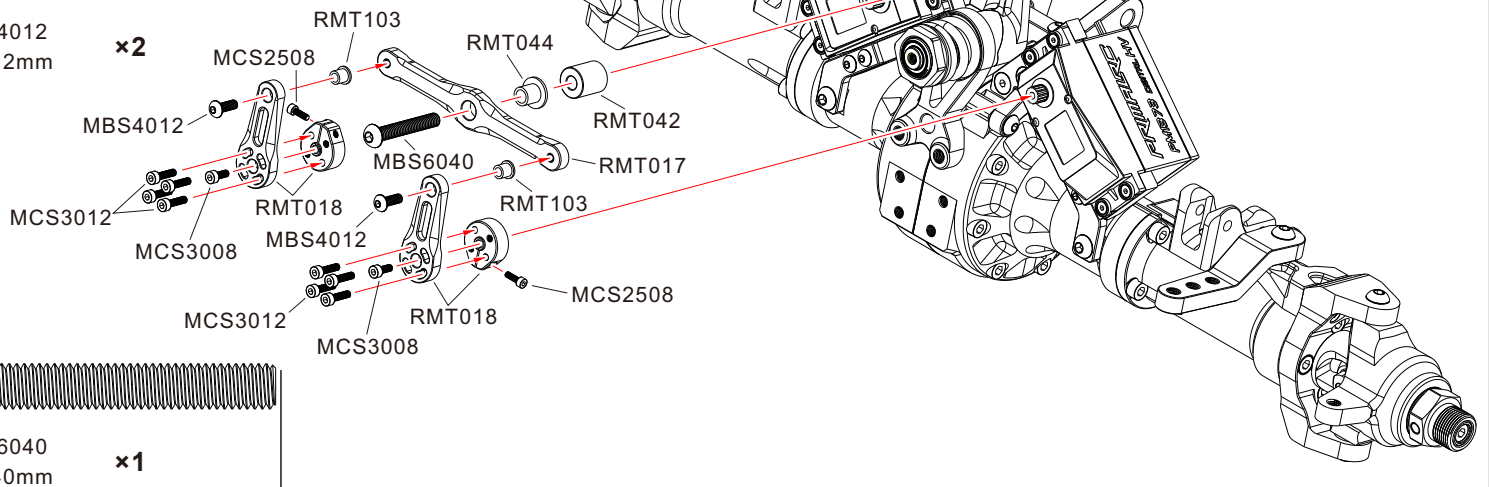
×1

8



USE
THREAD
LOCK
ALWAYS

9



USE
THREAD
LOCK
ALWAYS



MNNS60
M6 Nut

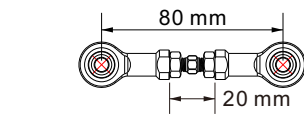
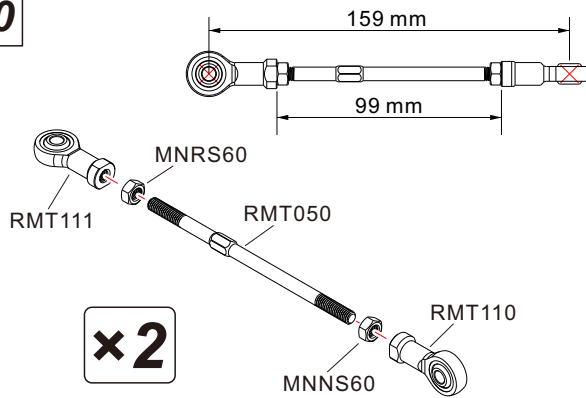
×4



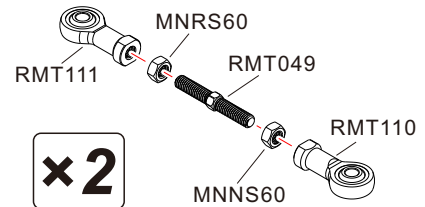
MNRS60
M6 Reverse Nut

×4

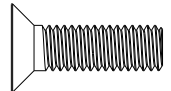
10



USE
THREAD
LOCK
ALWAYS

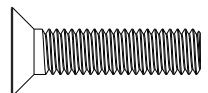


11



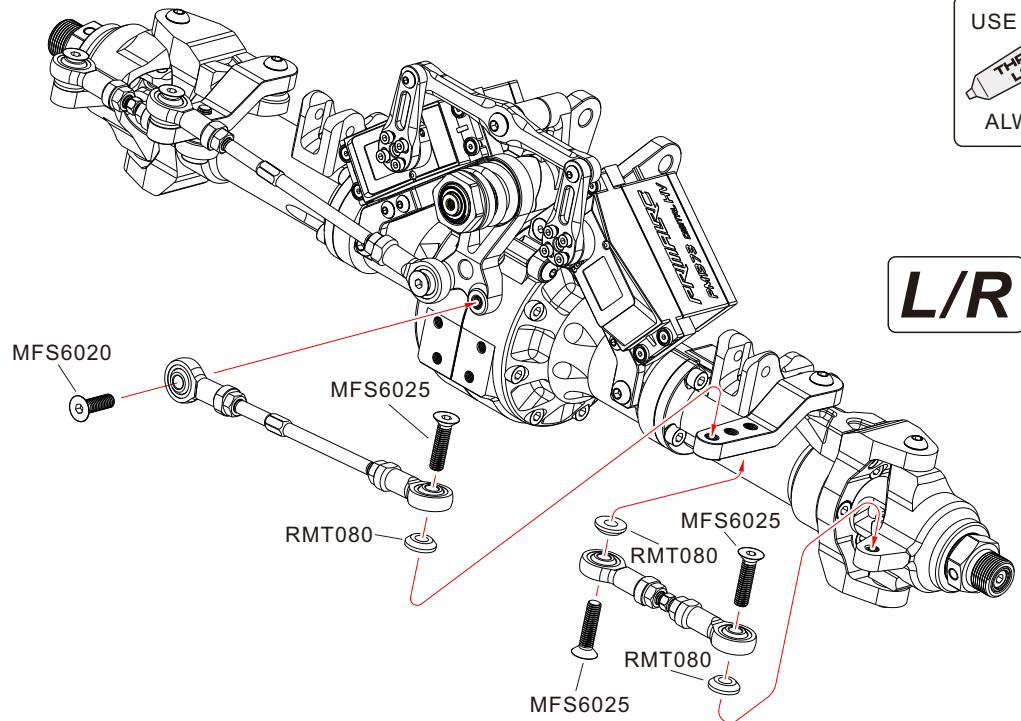
MFS6020
M6×20mm

×2

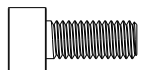


MFS6025
M6×25mm

×6



12



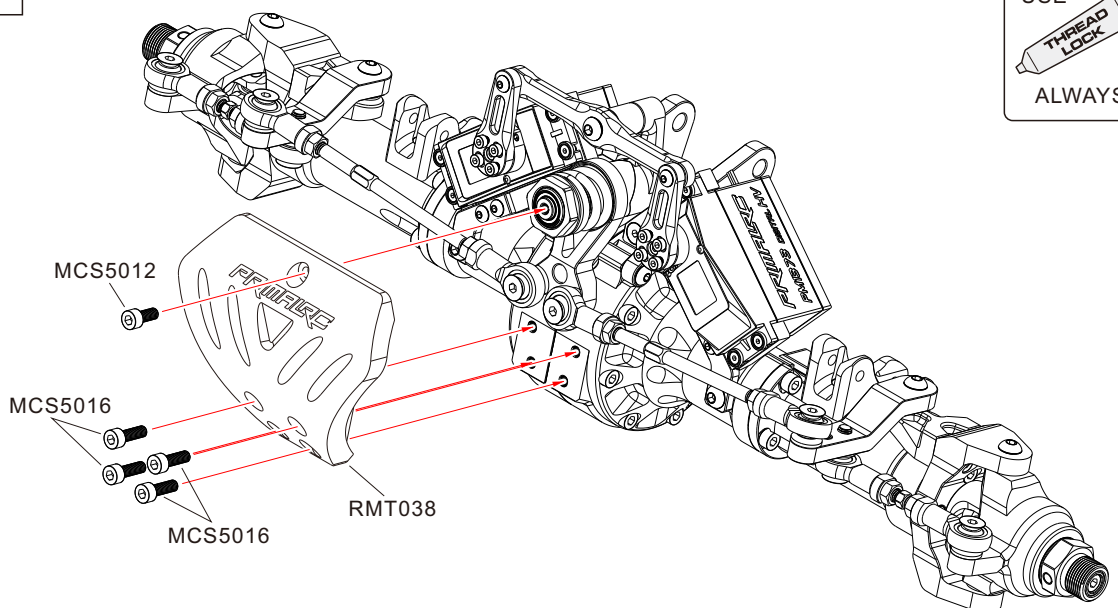
MCS5012
M5×12mm

×1



MCS5016
M5×16mm

×4

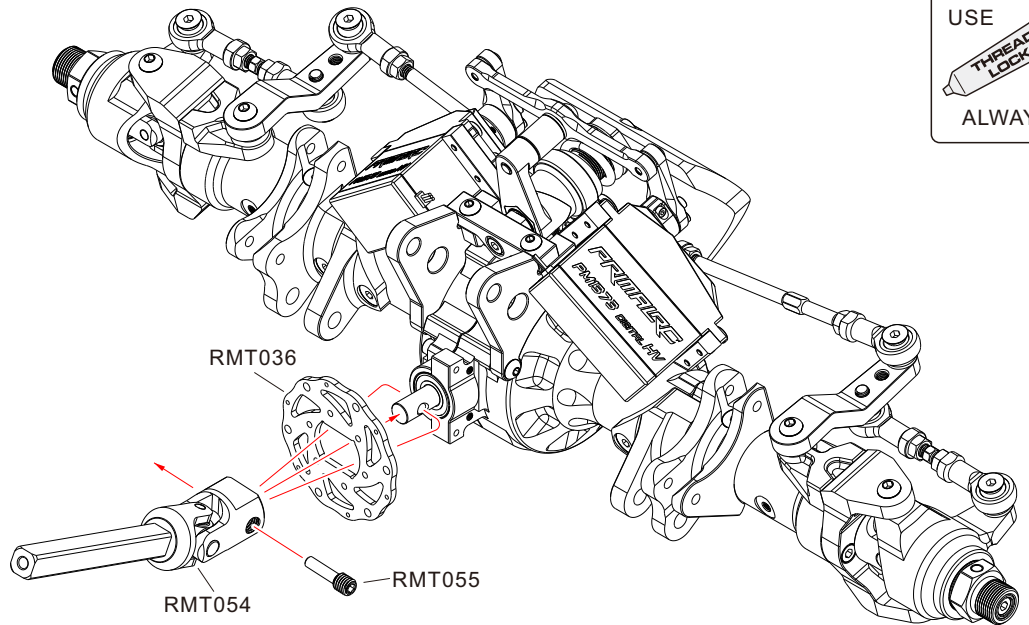




RMT055
M8×27mm ×1



13



USE
THREAD
LOCK
ALWAYS



MFS3010
M3×10mm ×4



MSS4004
M4×4mm ×2



MCS3020
M3×20mm ×4



BBS050825
Bearing 5×8×2.5mm ×4

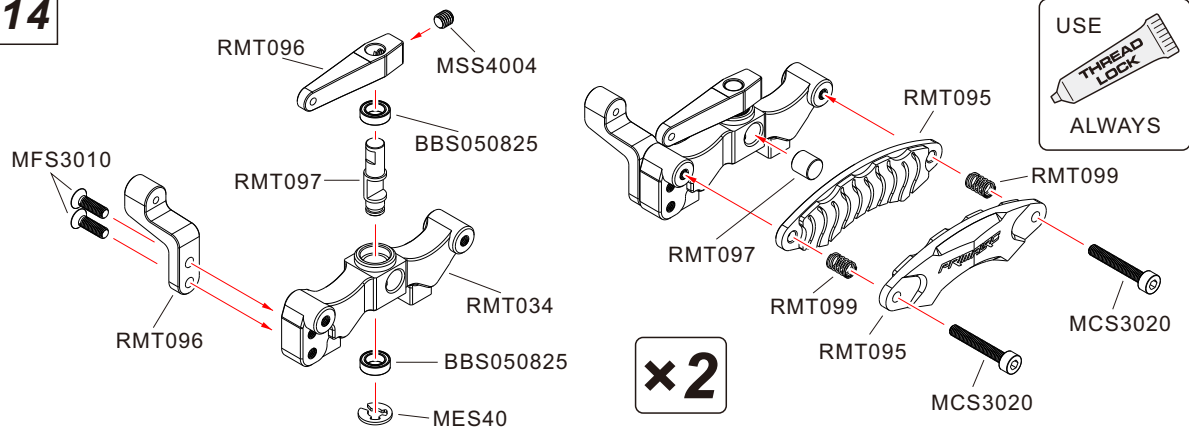


MES40
E-clip 4mm ×2



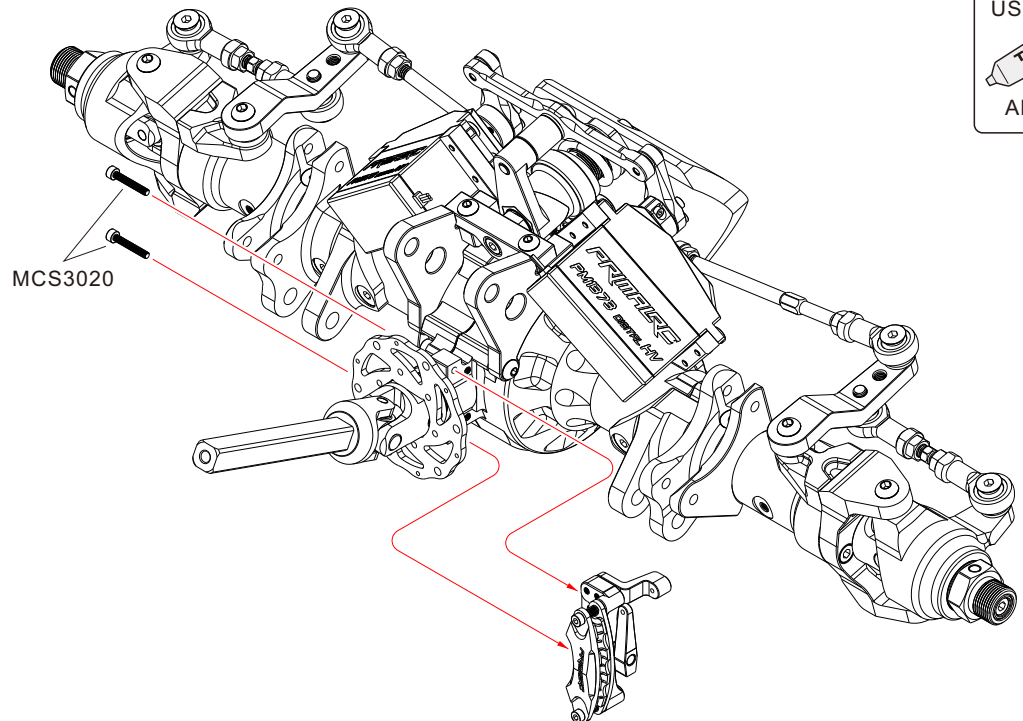
MCS3020
M3×20mm ×2

14



USE
THREAD
LOCK
ALWAYS

15



USE
THREAD
LOCK
ALWAYS

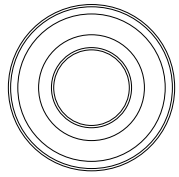
16 Rear Axle Assembly



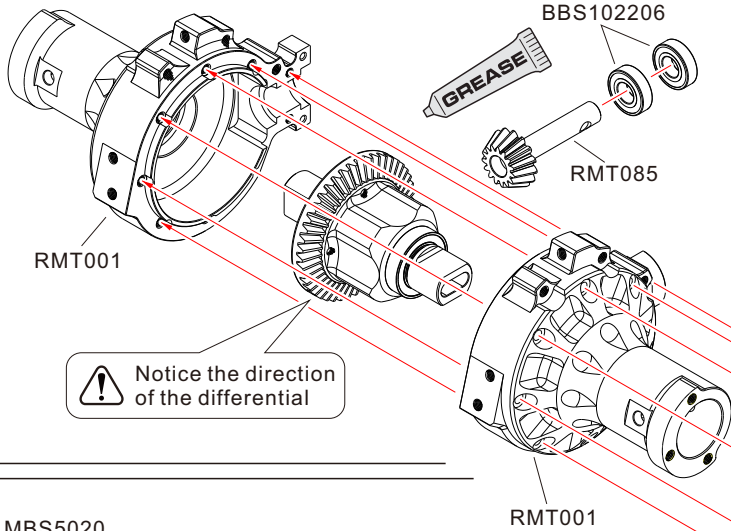
MCS4020
M4×20mm ×2



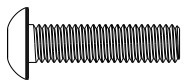
MCS5040
M5×40mm ×7



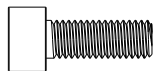
BBS102206
Bearing 10×22×6mm ×2



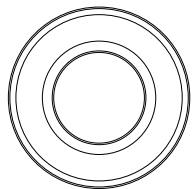
17



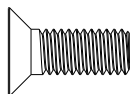
MBS5020
M5×20mm ×6



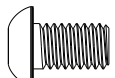
MCS5014
M5×14mm ×6



BBS122406
Bearing 12×24×6mm ×2

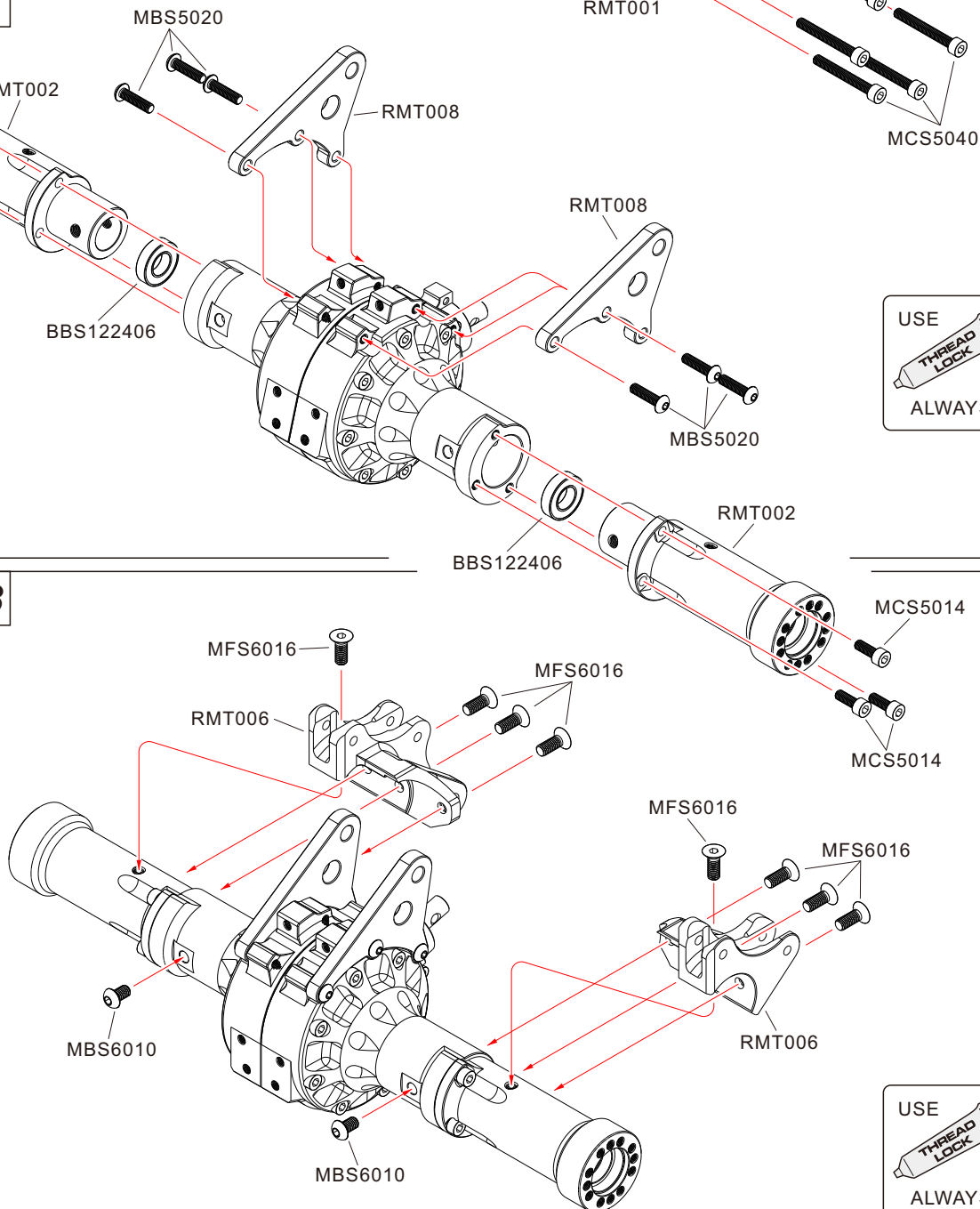


MFS6016
M6×16mm ×8

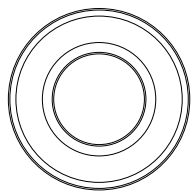


MBS6010
M6×10mm ×2

18



19



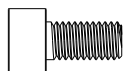
BBS122406
Bearing 12x24x6mm

×4



MCS5020
M5x20mm

×8



MCS5010
M5x10mm

×2



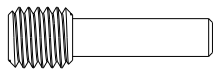
PINS5024
M5x24mm

×2



MCS5016
M5x16mm

×4



RMT055
M8x27mm

×1

USE
THREAD
LOCK
ALWAYS

L/R

20

BBS122406

RMT053

RMT005

BBS122406

MCS5020

USE
THREAD
LOCK
ALWAYS

L/R

MCS5016

RMT038

MCS5016

RMT046

PINS5024

MCS5010

21

RMT036

RMT054

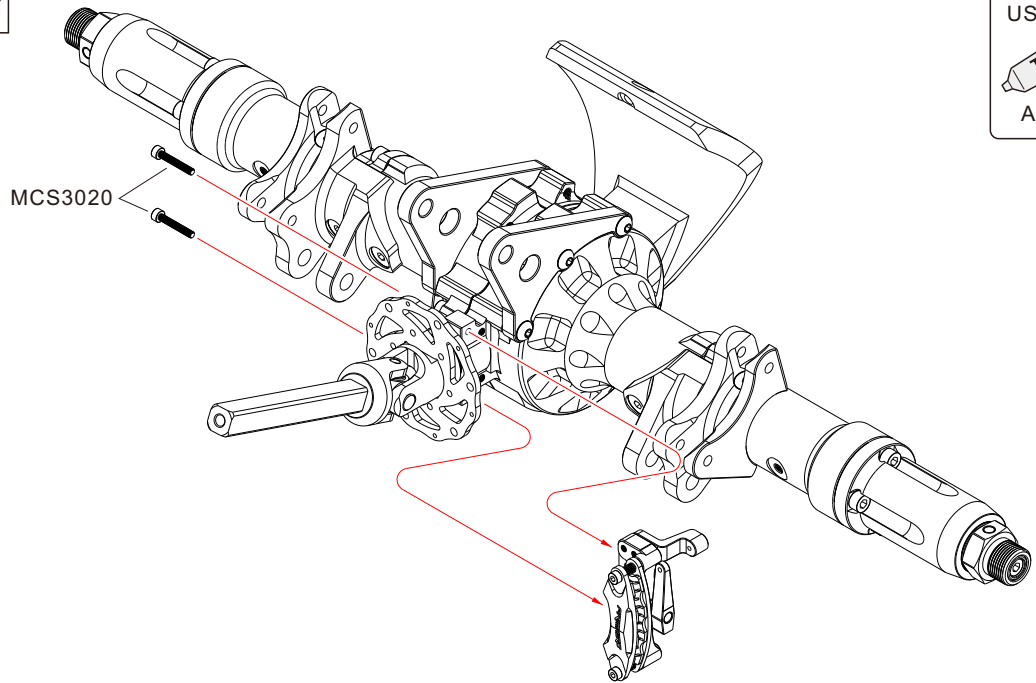
RMT055

USE
THREAD
LOCK
ALWAYS



MCS3020
M3×20mm ×2

22



USE
THREAD
LOCK
ALWAYS

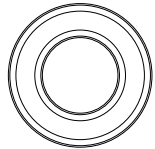
23 Transmission Assembly



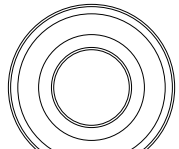
MSS3003
M3×3mm ×1



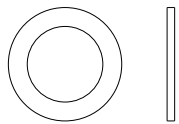
MSS5005
M5×5mm ×2



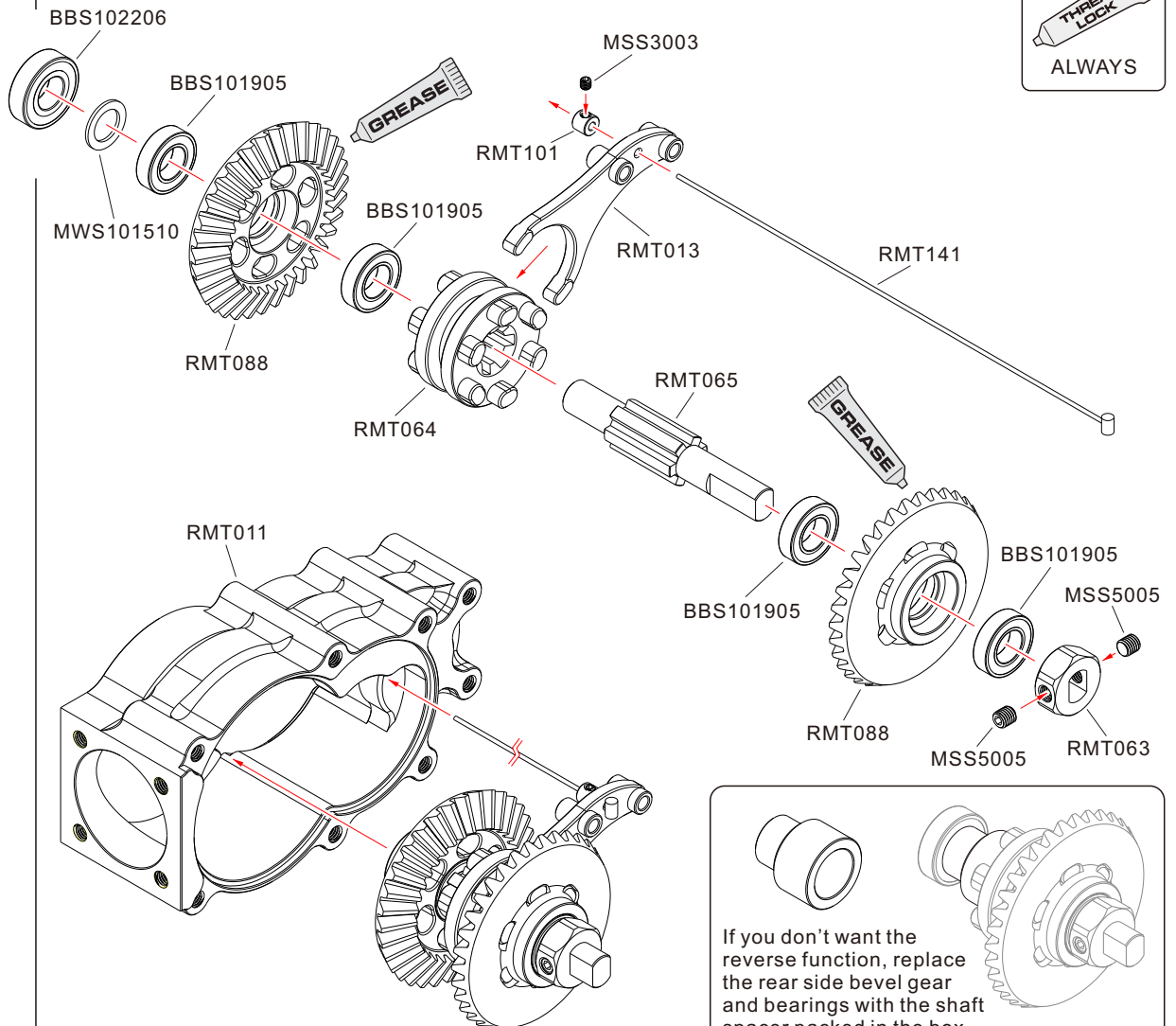
BBS101905
Bearing 10×19×5mm ×4



BBS102206
Bearing 10×22×6mm ×1

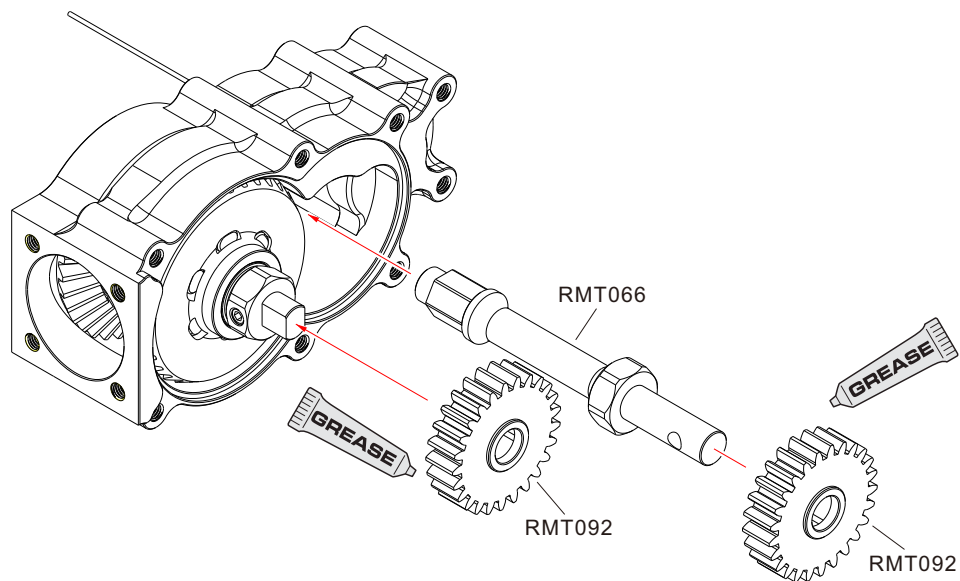


MWS101510
Washer 10×15×1mm ×1



USE
THREAD
LOCK
ALWAYS

24



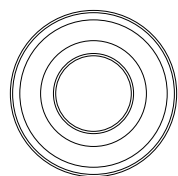
Total Gear Ratio		Spur				
		30	27	25	23	20
Pinion	20	27				
	23		21.13			
	25			18		
	27				15.33	
	30					12

Low speed More torque ← → High speed Less torque

25



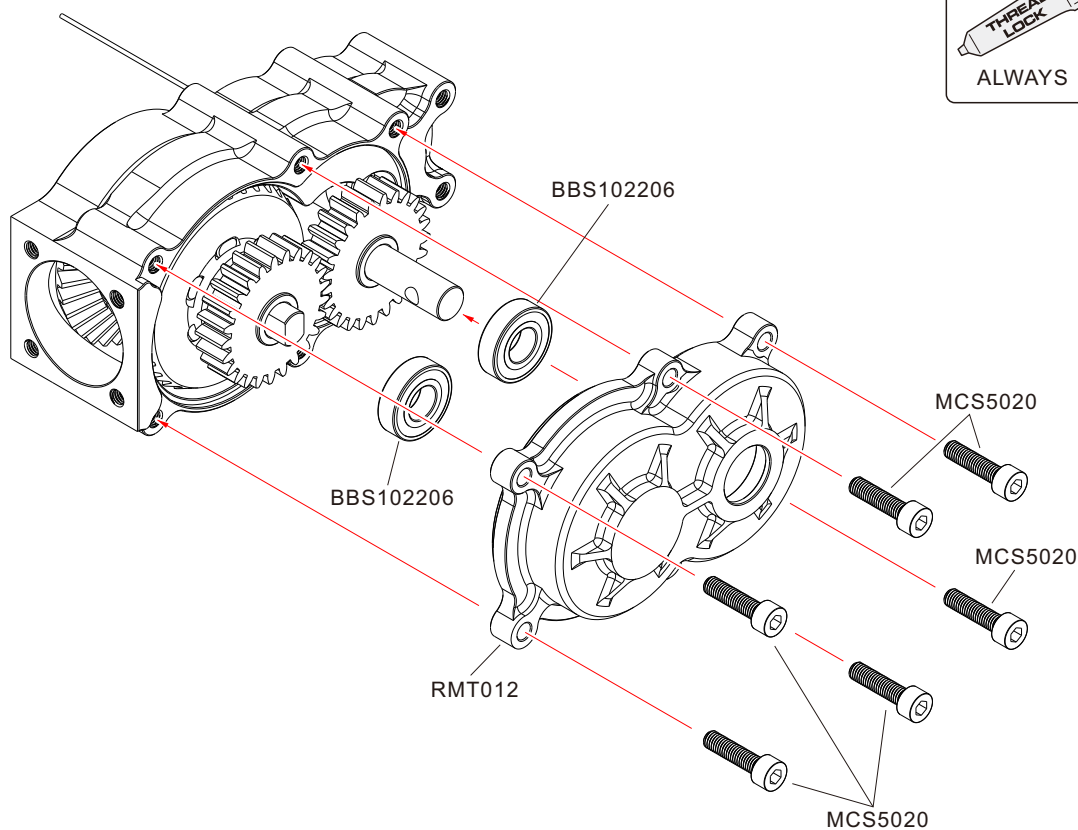
MCS5020
M5×20mm ×6



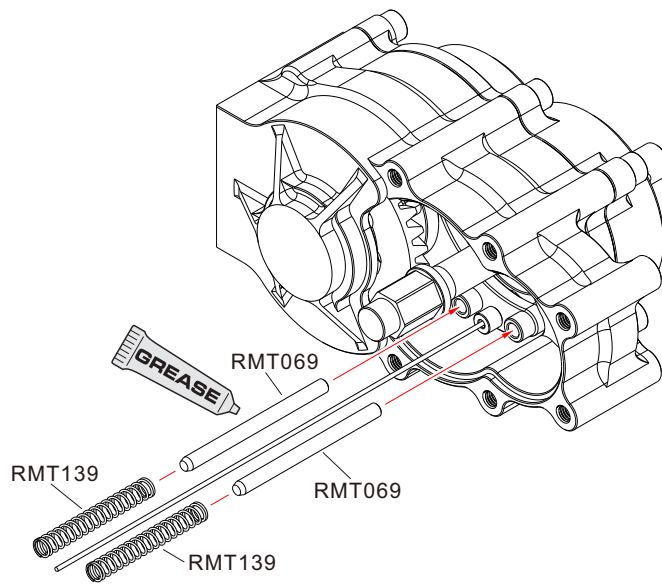
BBS102206
Bearing 10×22×6mm ×2



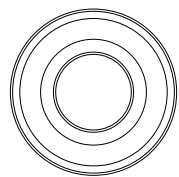
×2



26

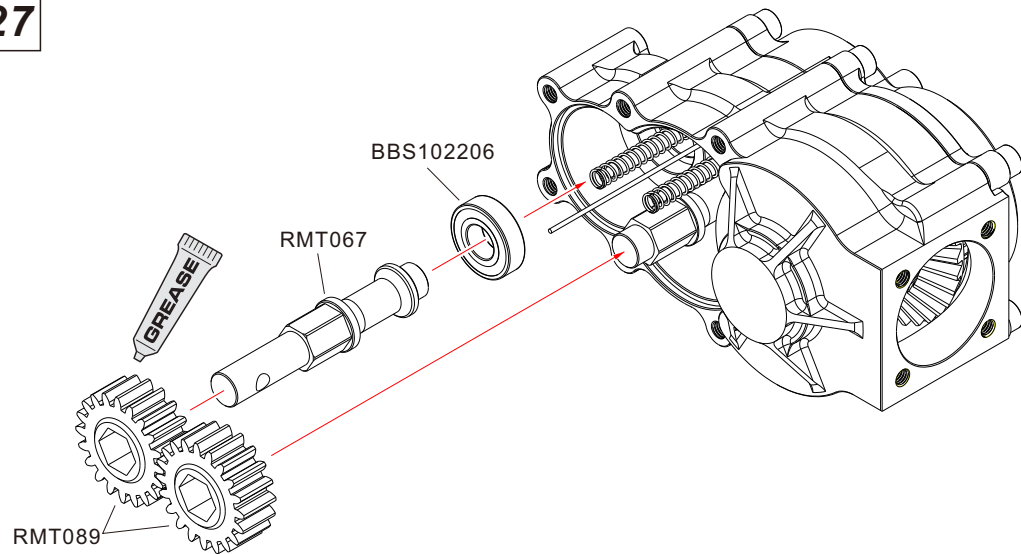


27



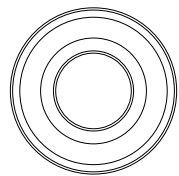
BBS102206
Bearing 10×22×6mm

×1



MCS5020
M5×20mm

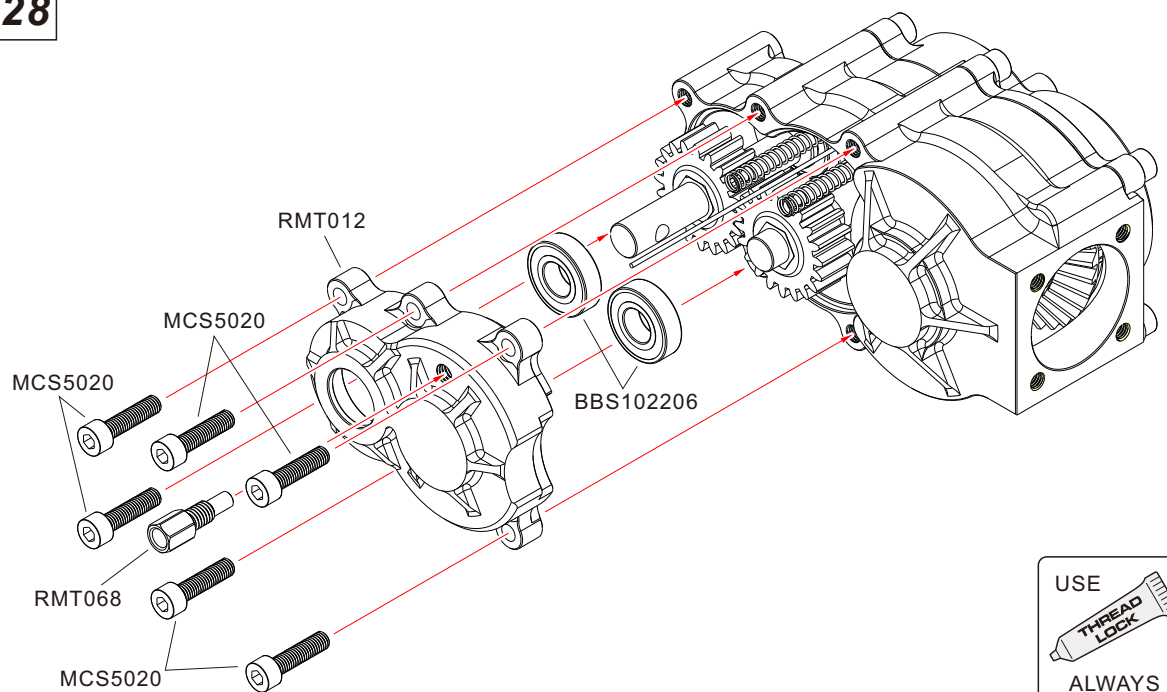
×6



BBS102206
Bearing 10×22×6mm

×2

28

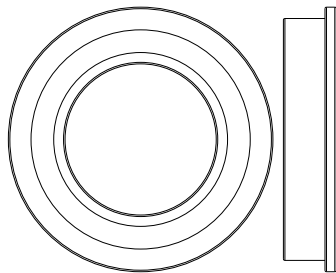




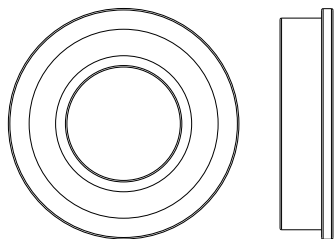
MCS5025
M5×25mm ×1



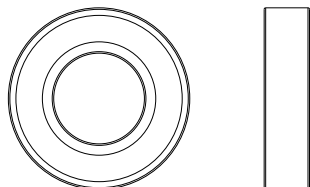
MPS50
Spring Washer M5 ×1



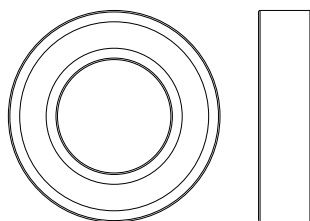
FBS203207
Flange Bearing 20×32×7mm ×1



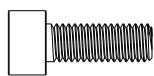
FBS152807
Flange Bearing 15×28×7mm ×1



BBS122406
Bearing 12×24×6mm ×1

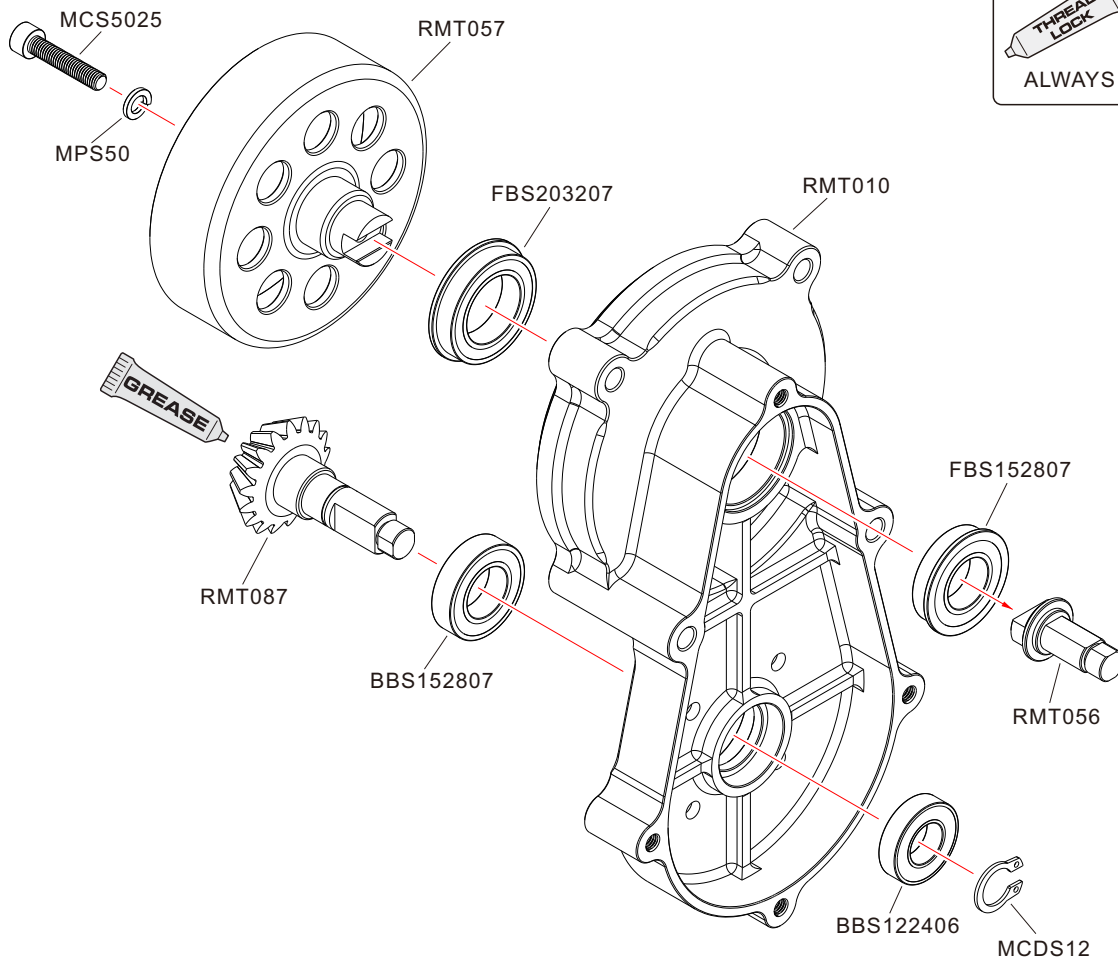


BBS152807
Bearing 15×28×7mm ×1

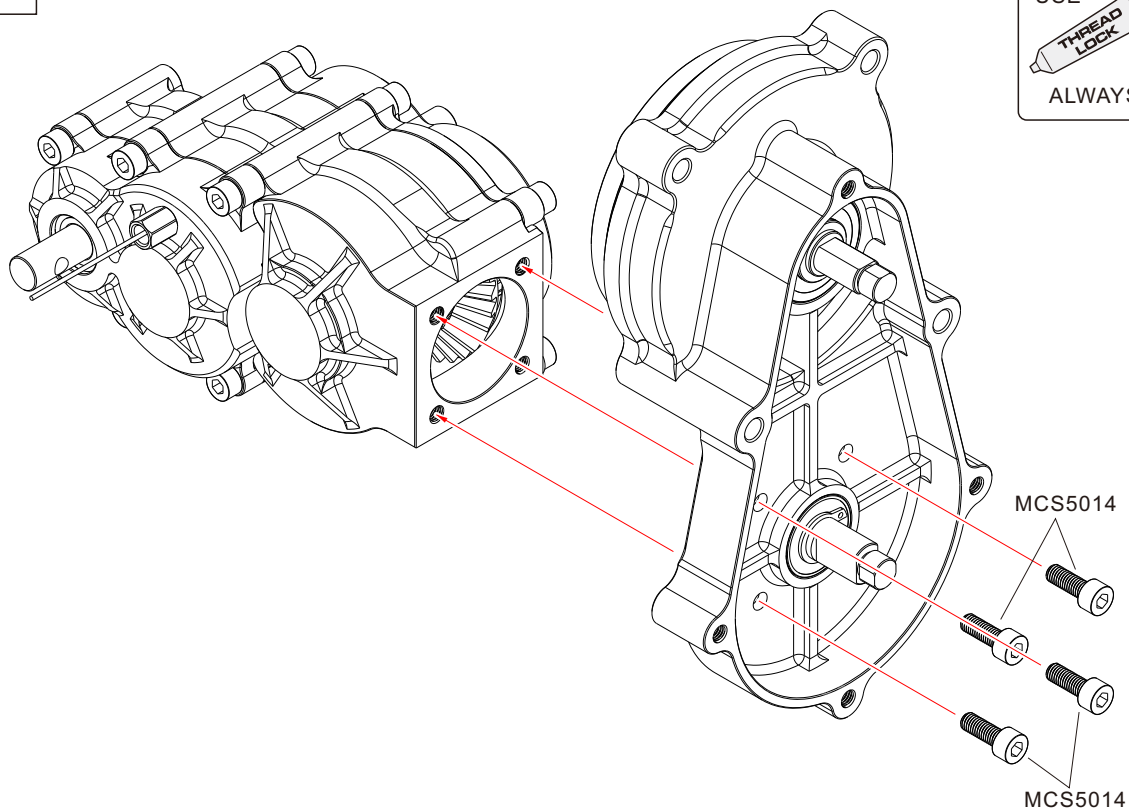


MCS5014
M5×14mm ×4

29



30



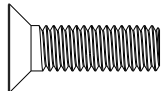
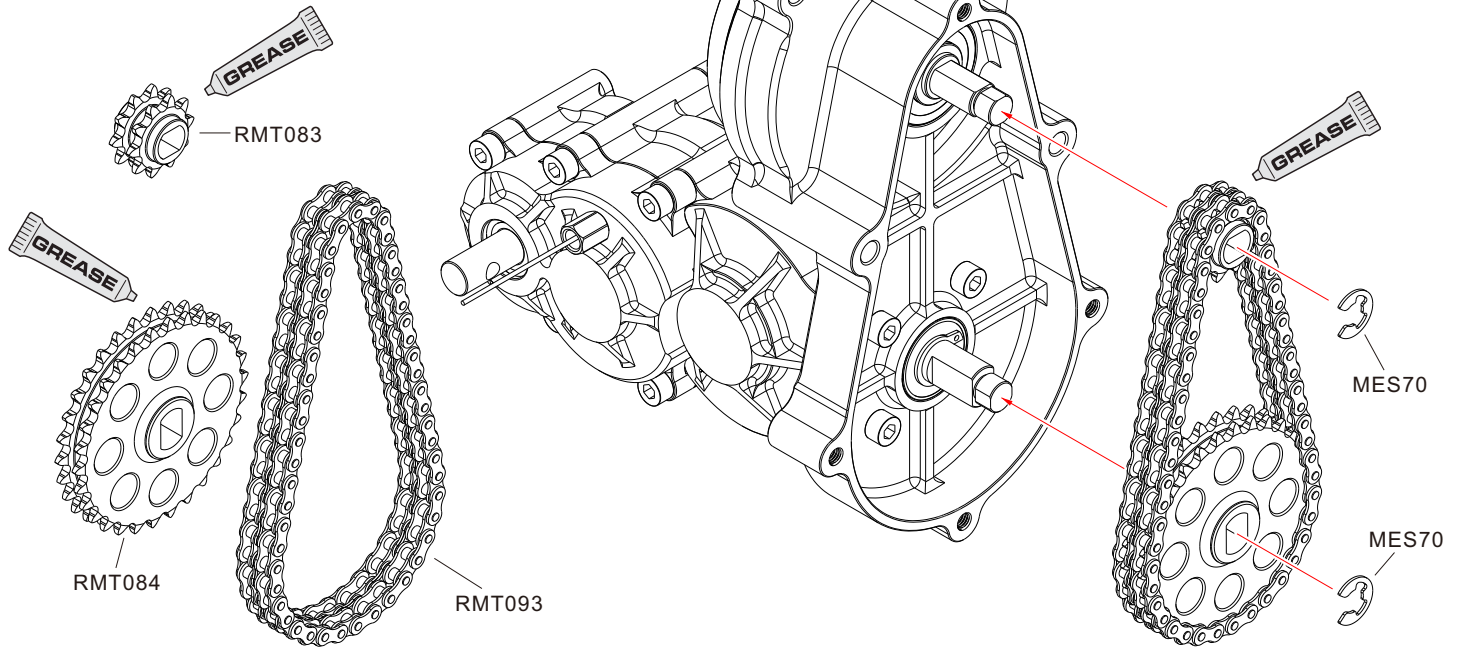


MES70
E-clip 7mm



×2

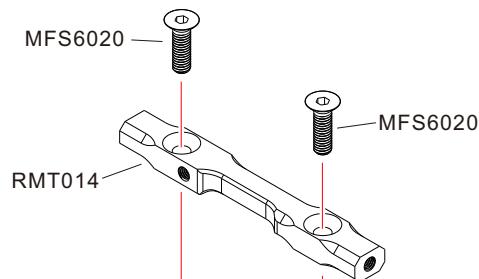
31



MFS6020
M6x20mm

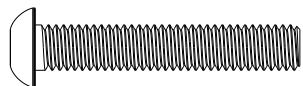
×2

32 Engine Assembly

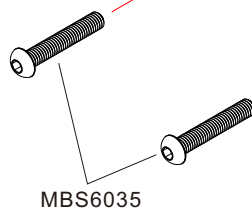


USE
THREAD
LOCK
ALWAYS

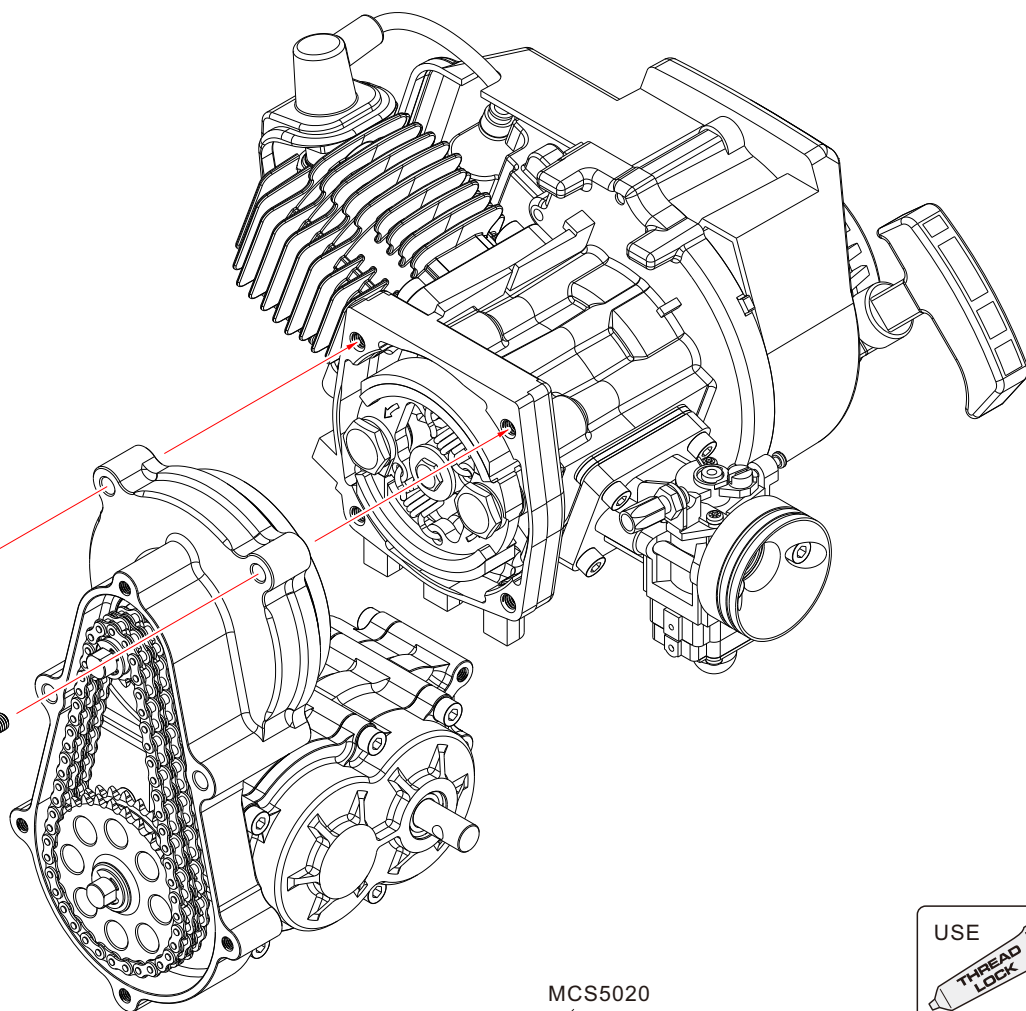
33



MBS6035
M6×35mm ×2



MBS6035

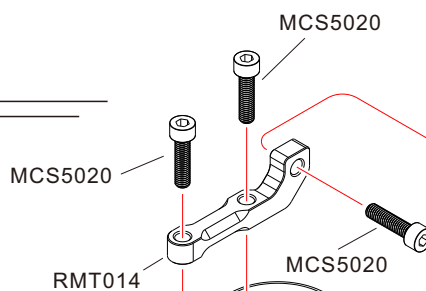


USE
THREAD
LOCK
ALWAYS

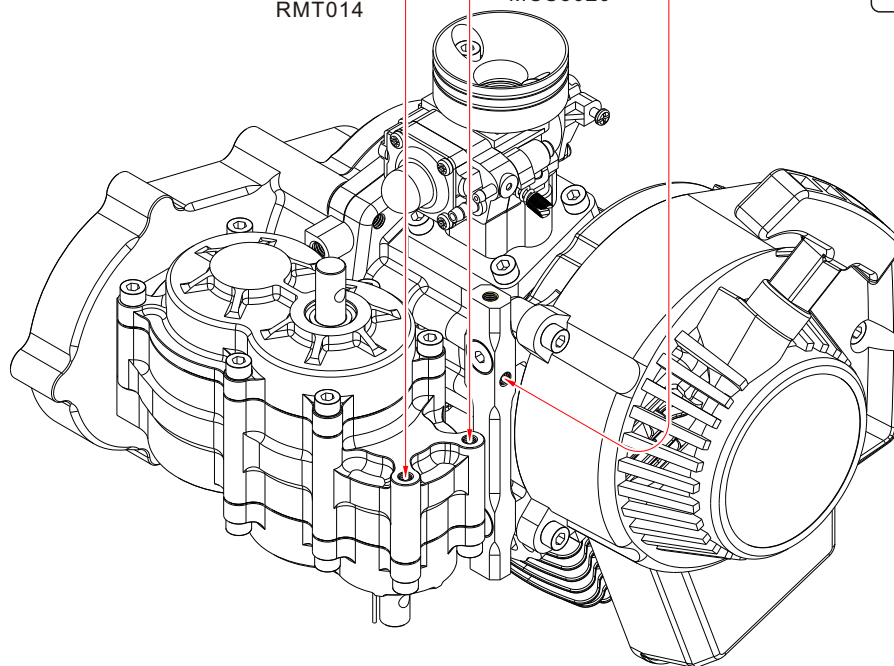
34



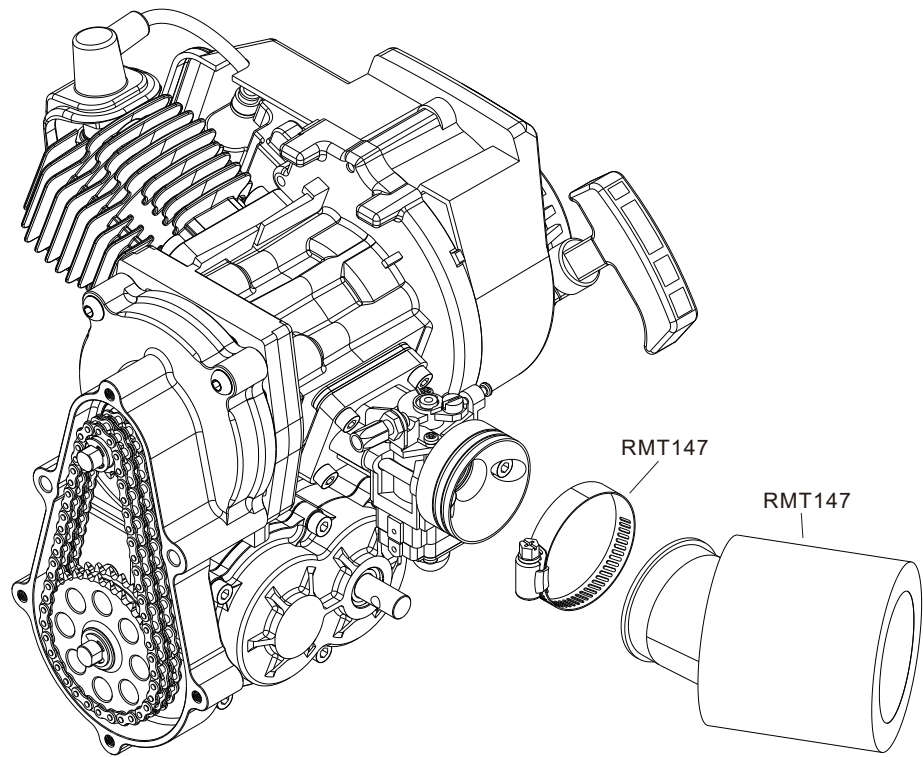
MCS5020
M5×20mm ×3



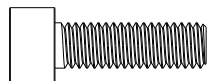
USE
THREAD
LOCK
ALWAYS



35



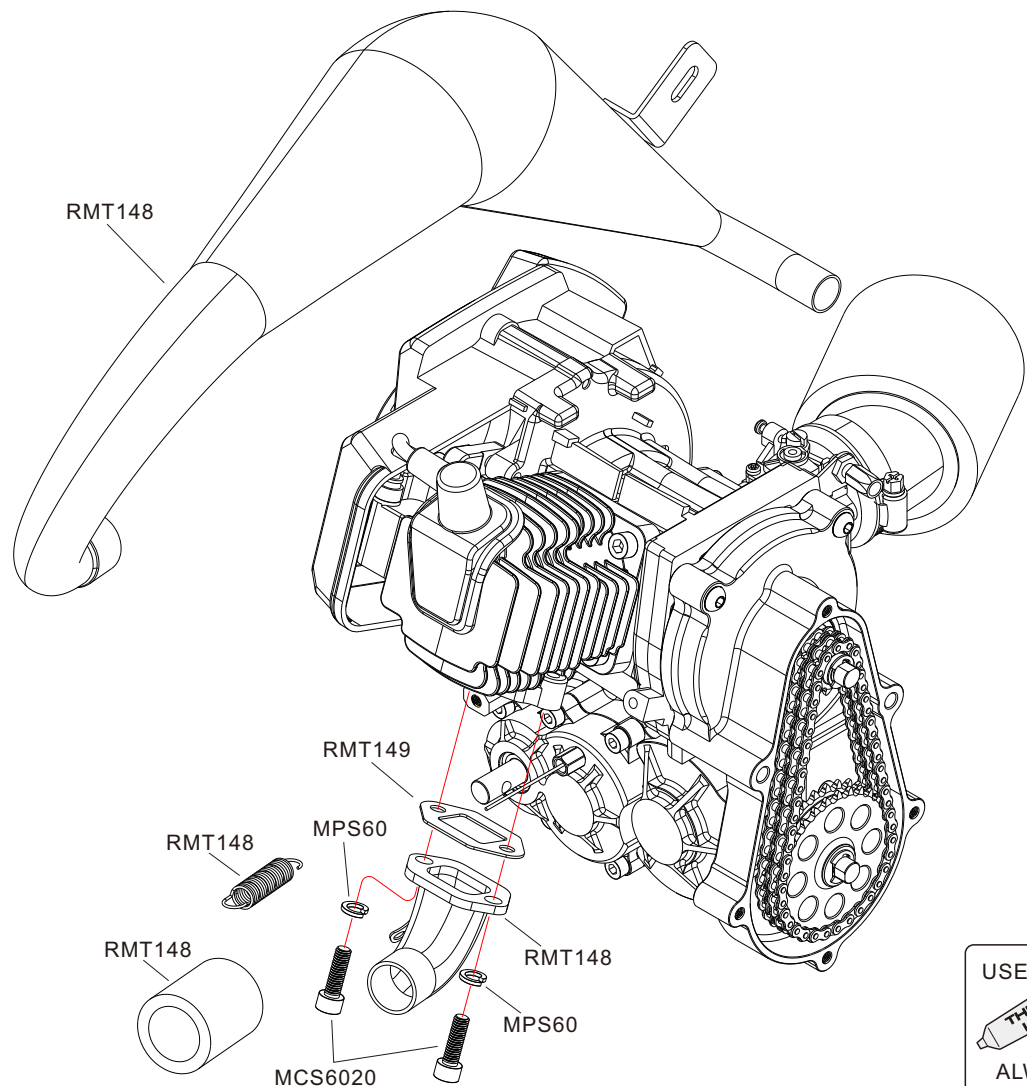
36

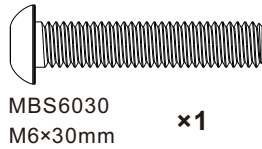
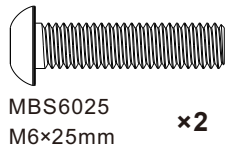
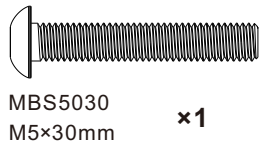
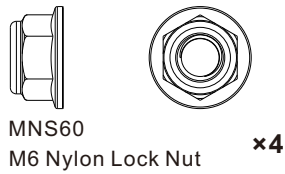


MCS6020
M6×20mm ×2

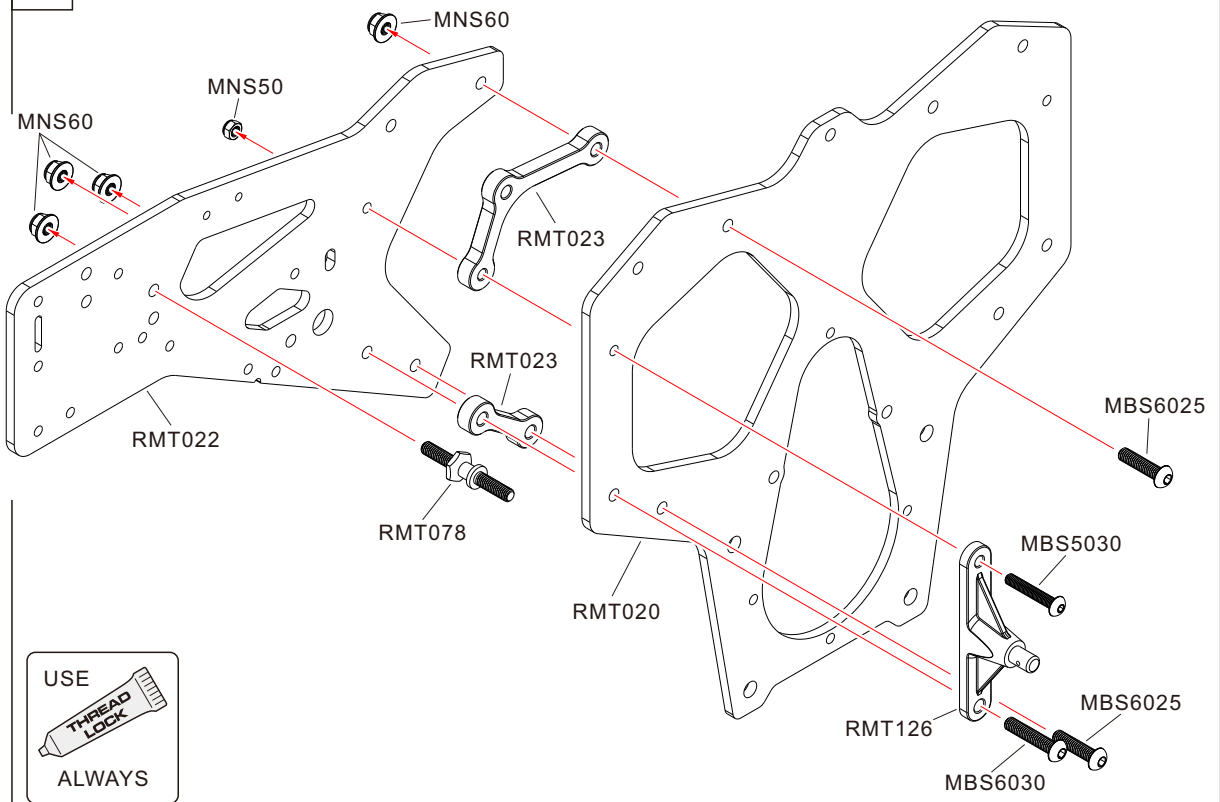


MPS60
Spring Washer M6 ×2

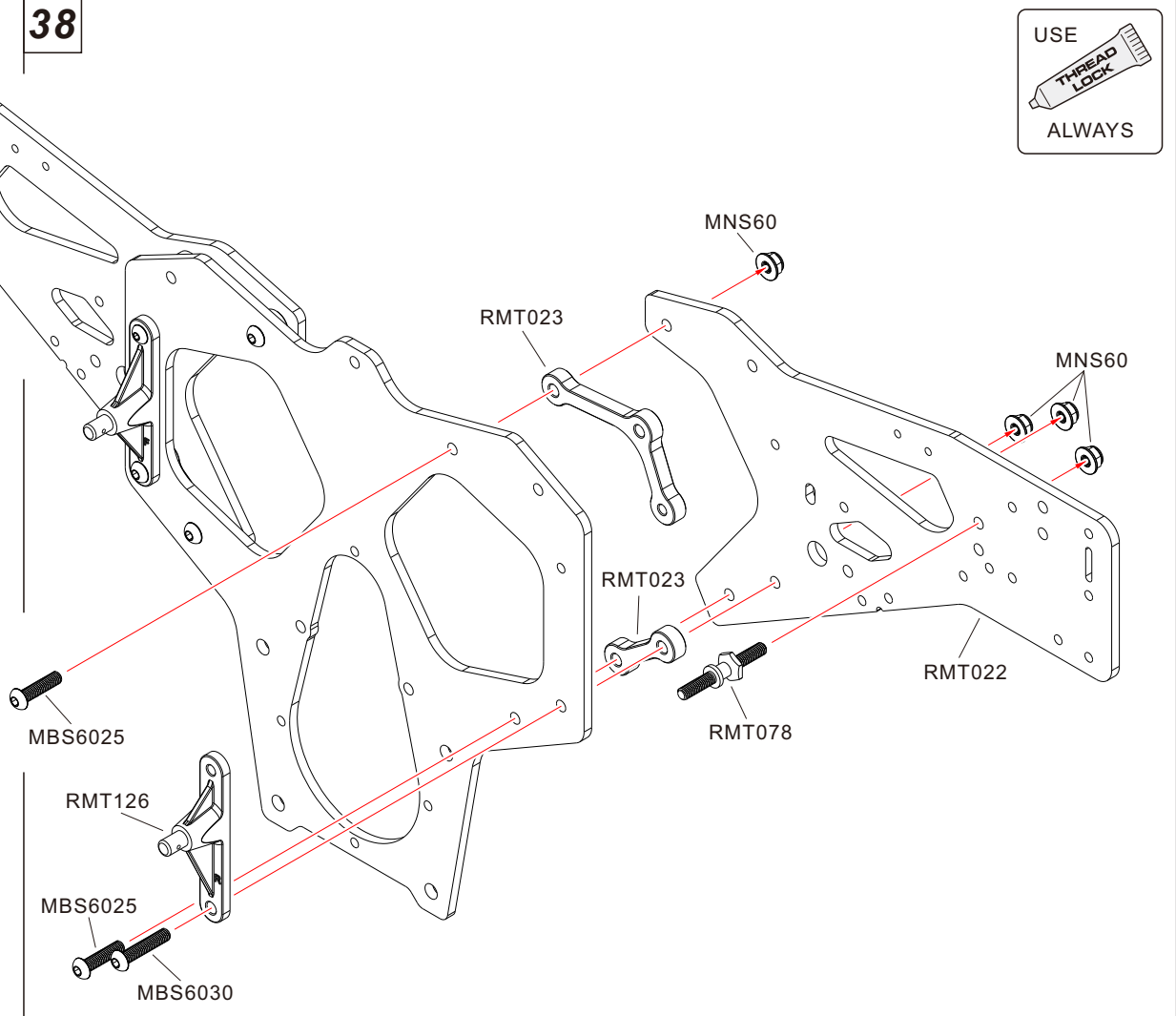
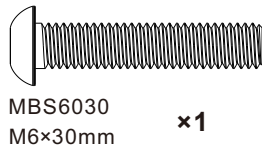
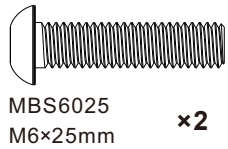
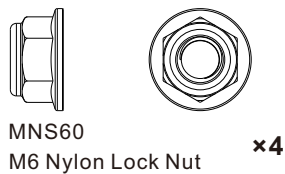




37 Chassis Assembly



38

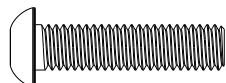


39



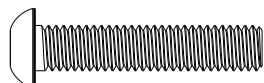
MNS60
M6 Nylon Lock Nut

×4



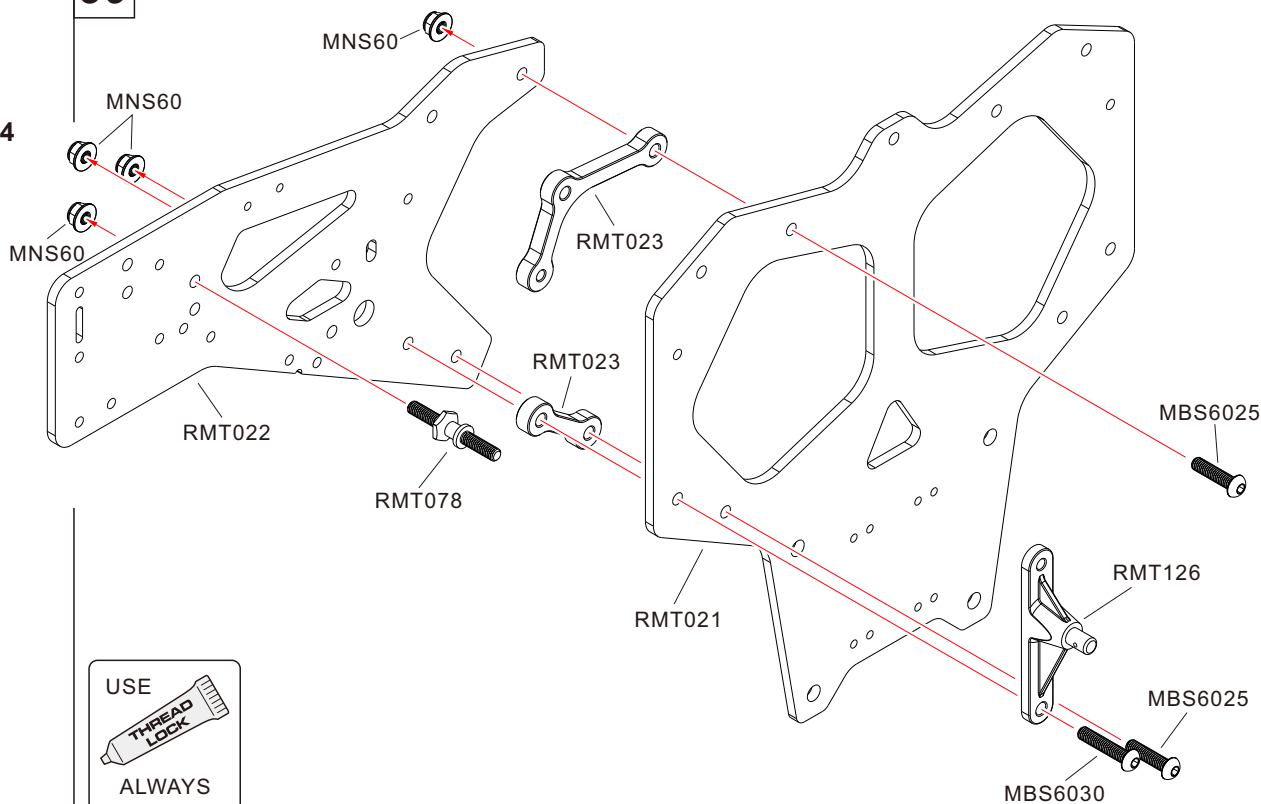
MBS6025
M6×25mm

×2

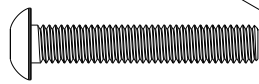


MBS6030
M6×30mm

×1

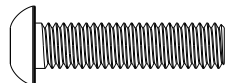


40



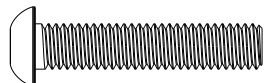
MBS5030
M5×30mm

×1



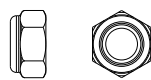
MBS6025
M6×25mm

×2



MBS6030
M6×30mm

×1



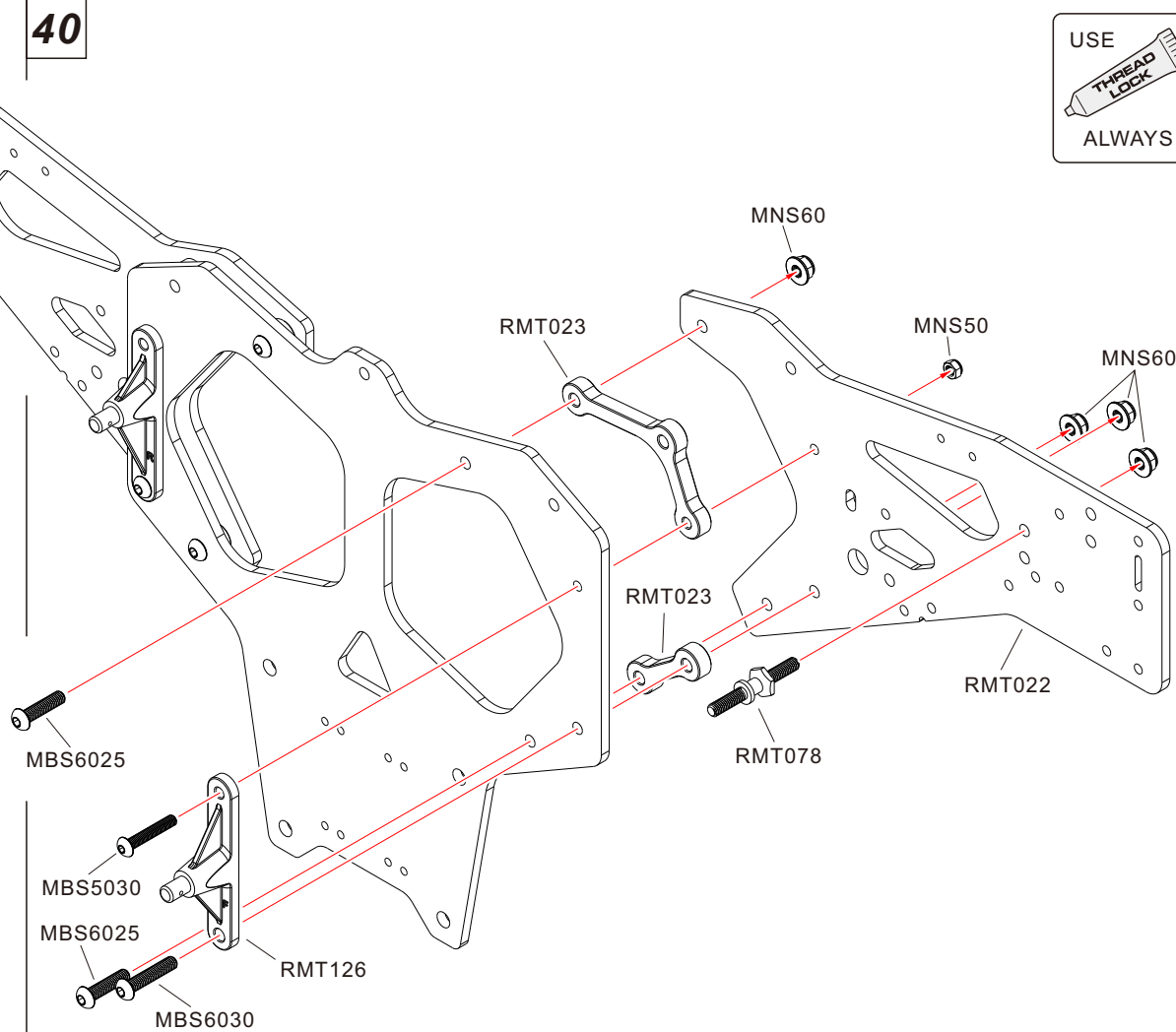
MNS50
M5 Nylon Lock Nut

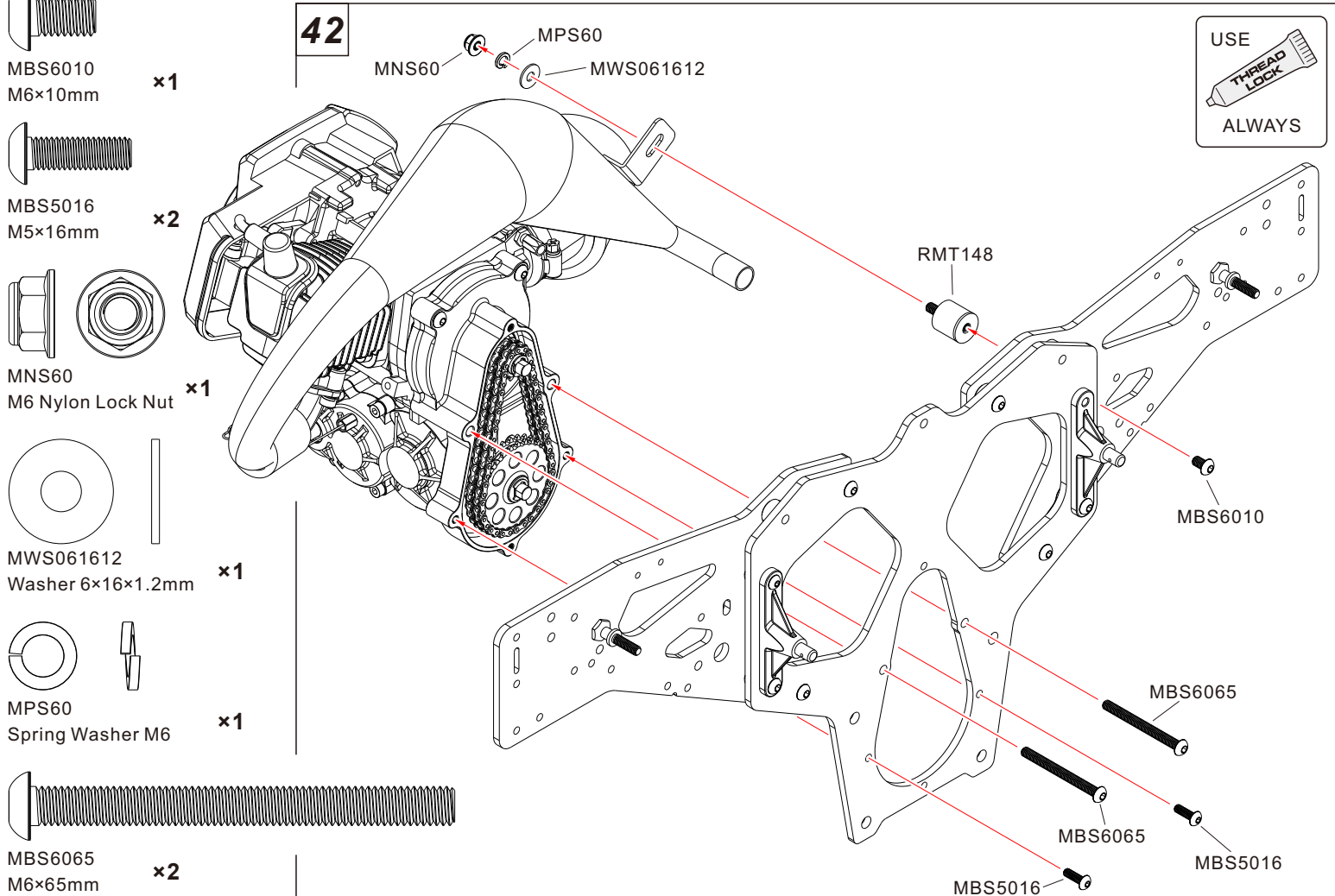
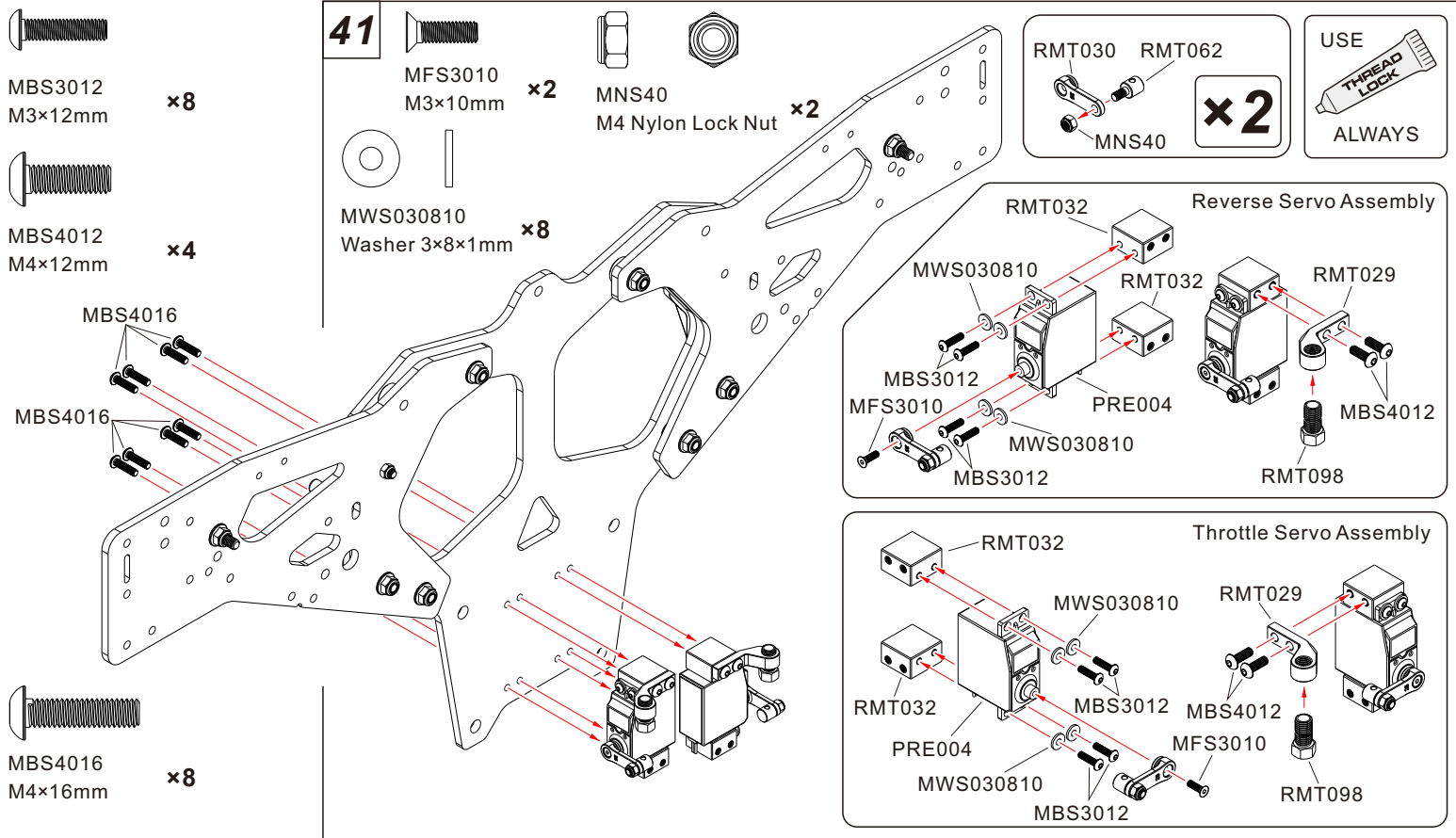
×1



MNS60
M6 Nylon Lock Nut

×4

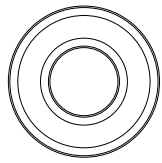




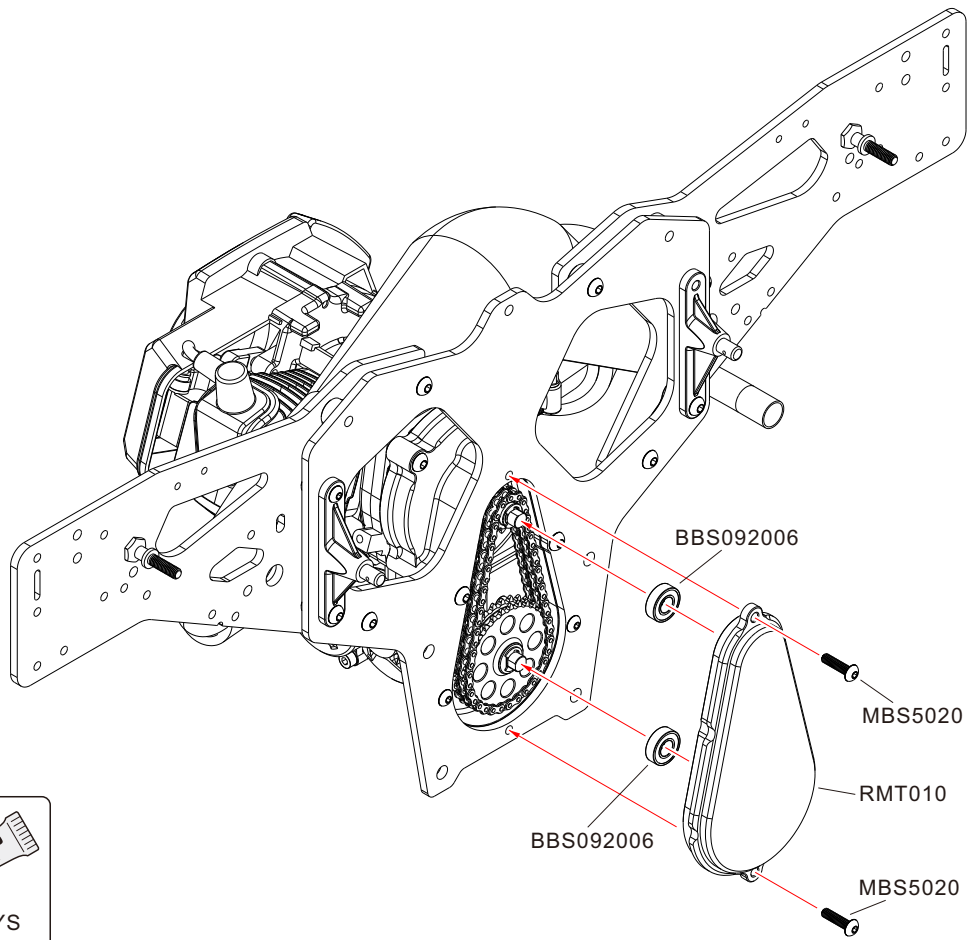
43



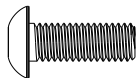
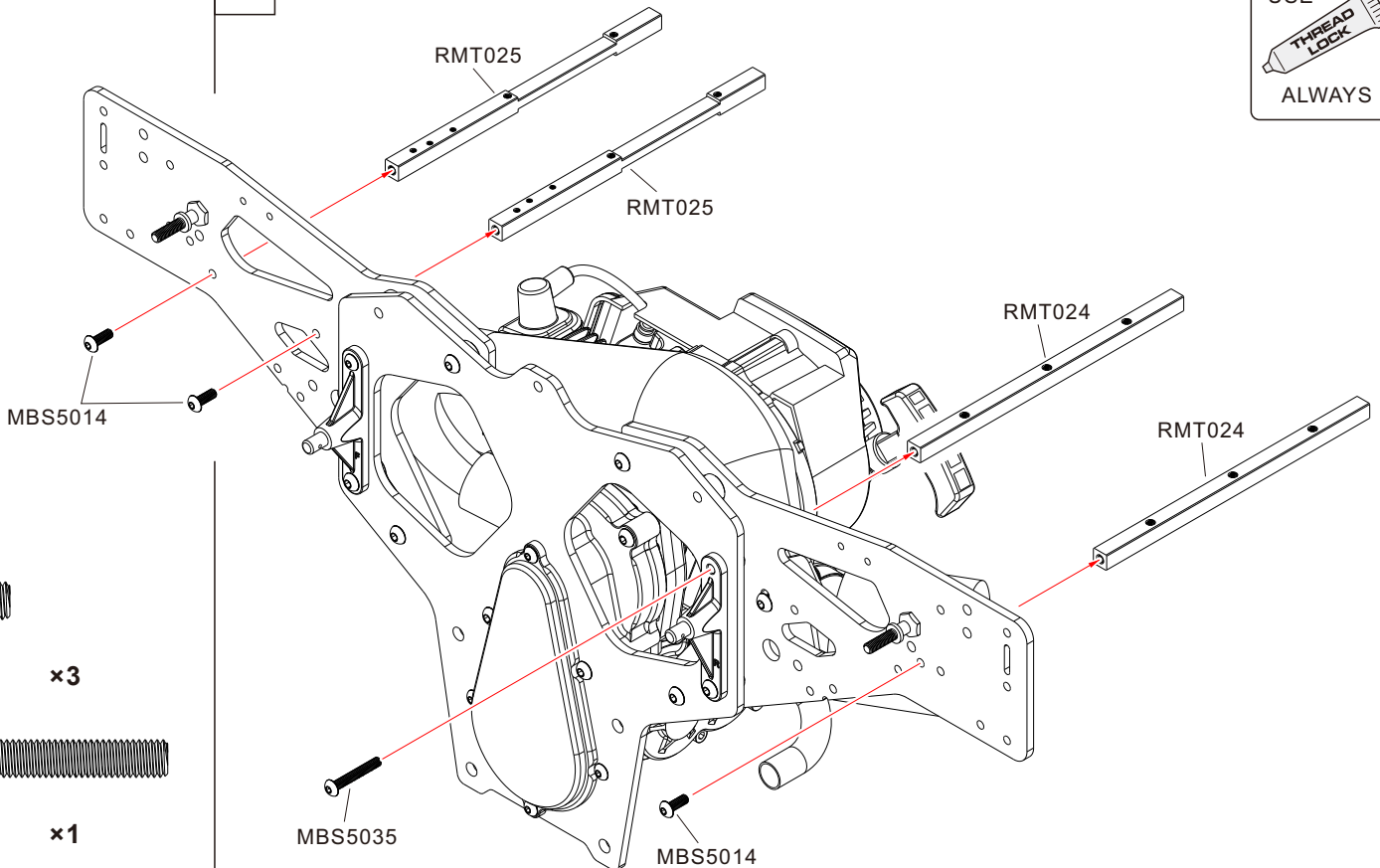
MBS5020
M5×20mm ×2



BBS092006
Bearing 9×20×6mm ×2



44

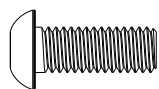


MBS5014
M5×14mm ×3



MBS5035
M5×35mm ×1

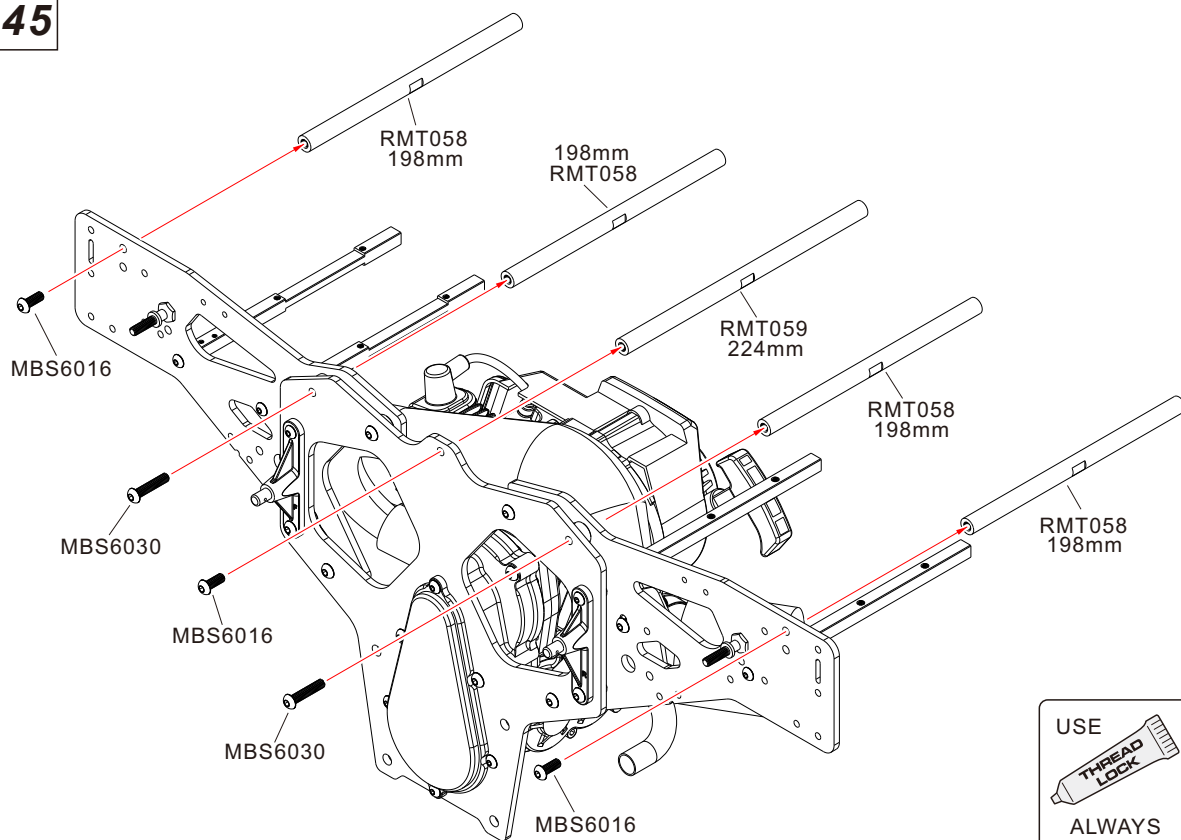
45



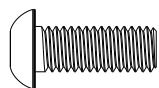
MBS6016
M6×16mm ×3



MBS6030
M6×30mm ×2



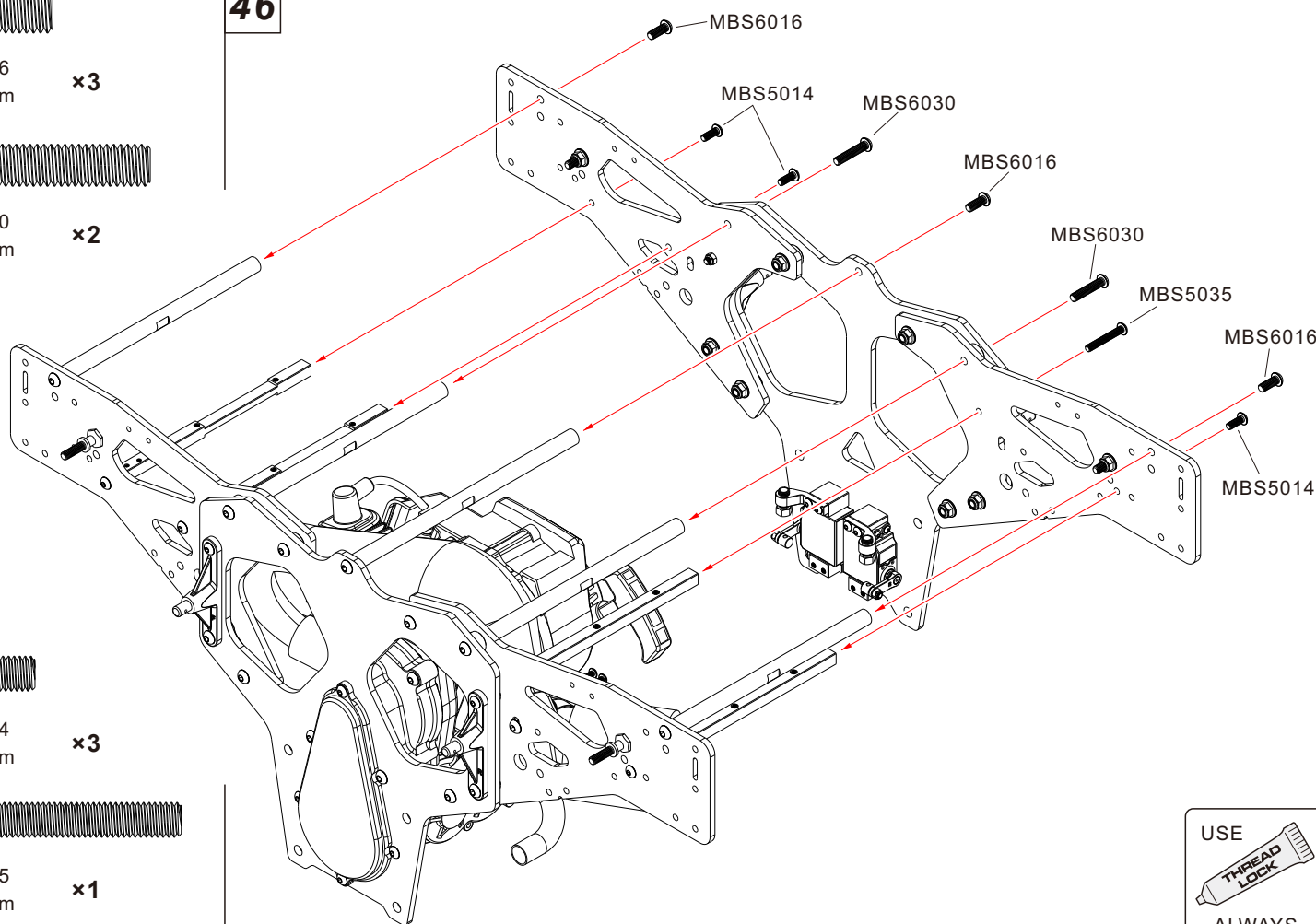
46



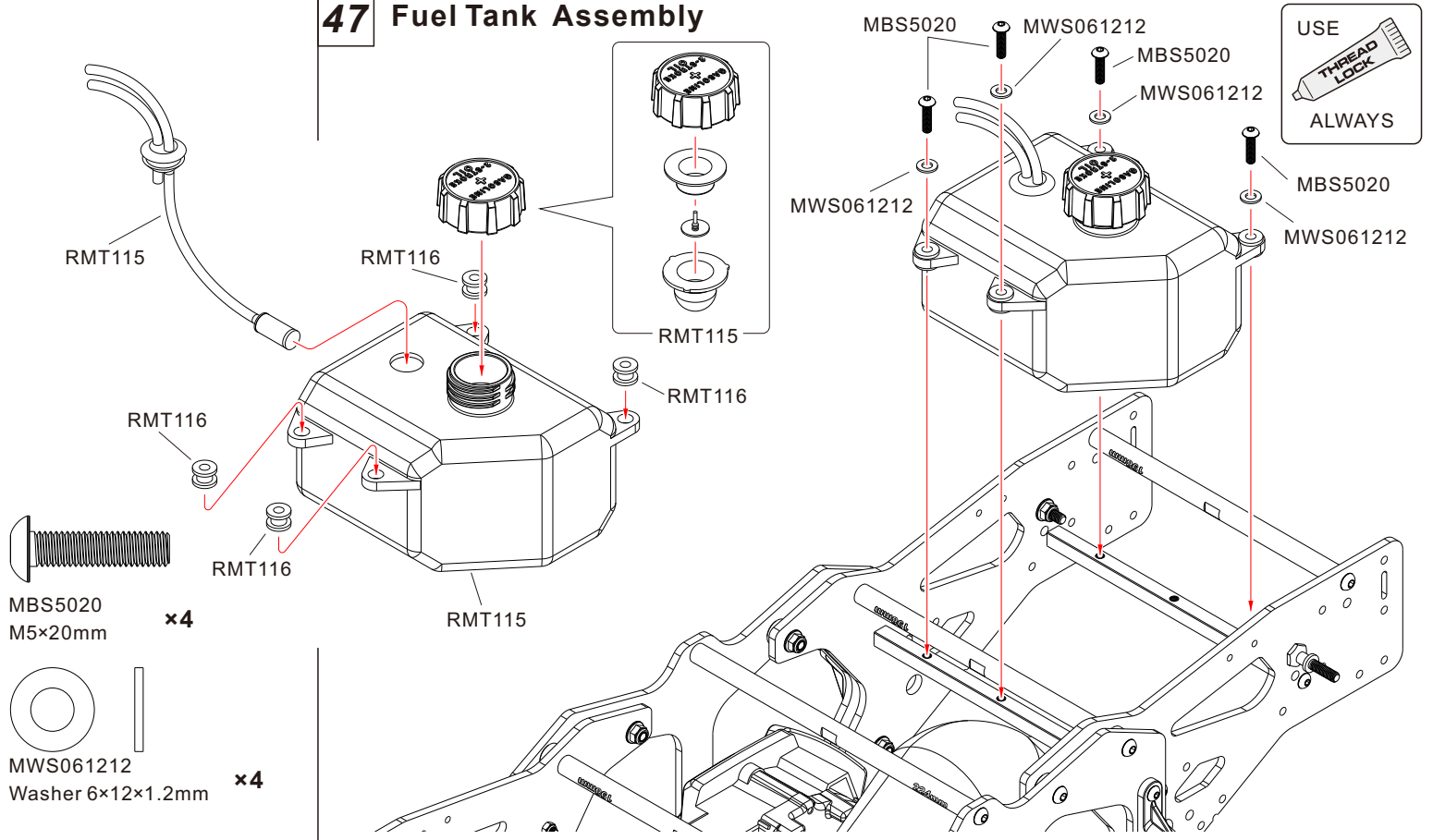
MBS6016
M6×16mm ×3



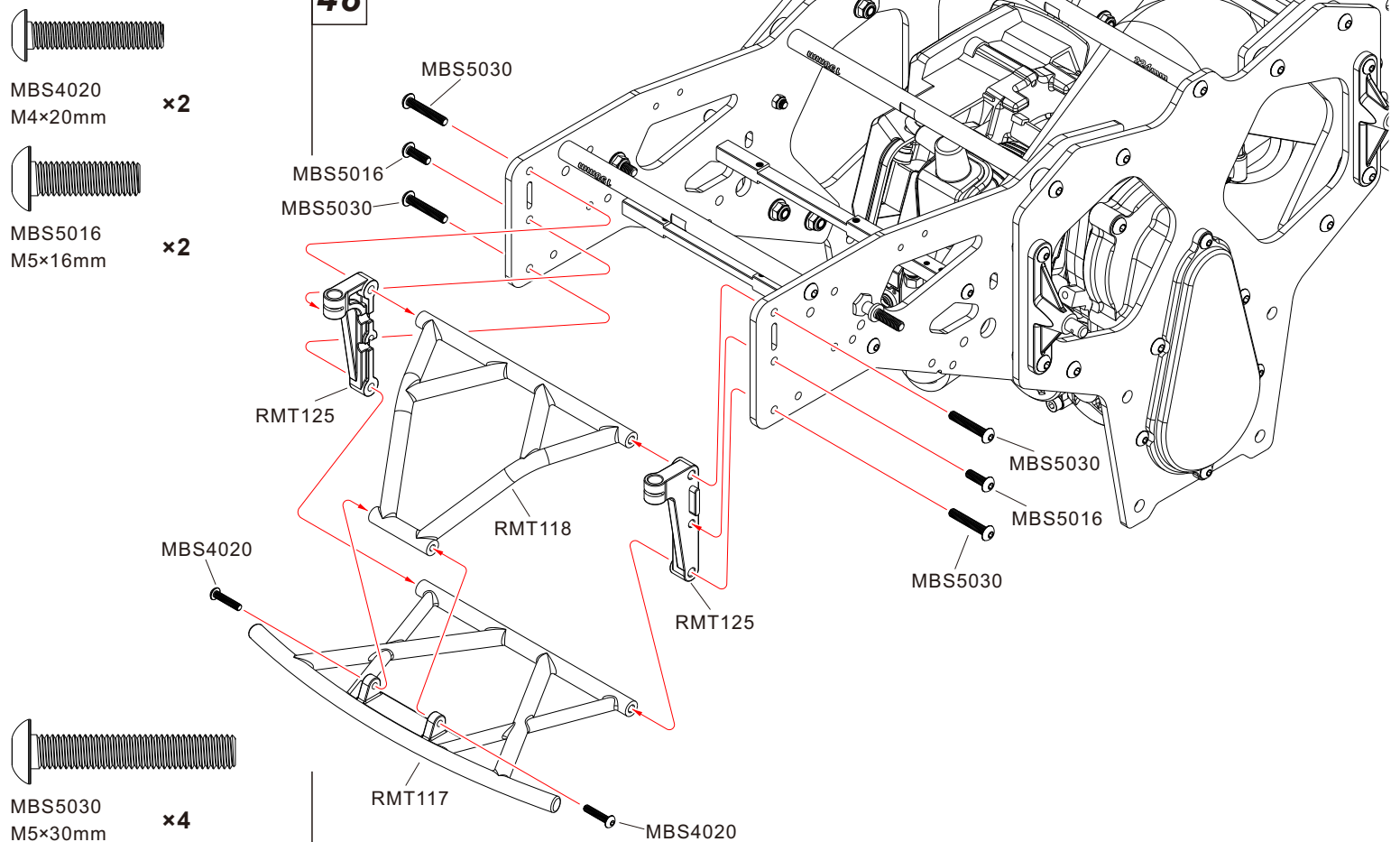
MBS6030
M6×30mm ×2



47 Fuel Tank Assembly



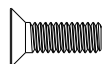
48



49 Receiver Assembly



MBS4025
M4×25mm ×10



MFS4012
M4×12mm ×4



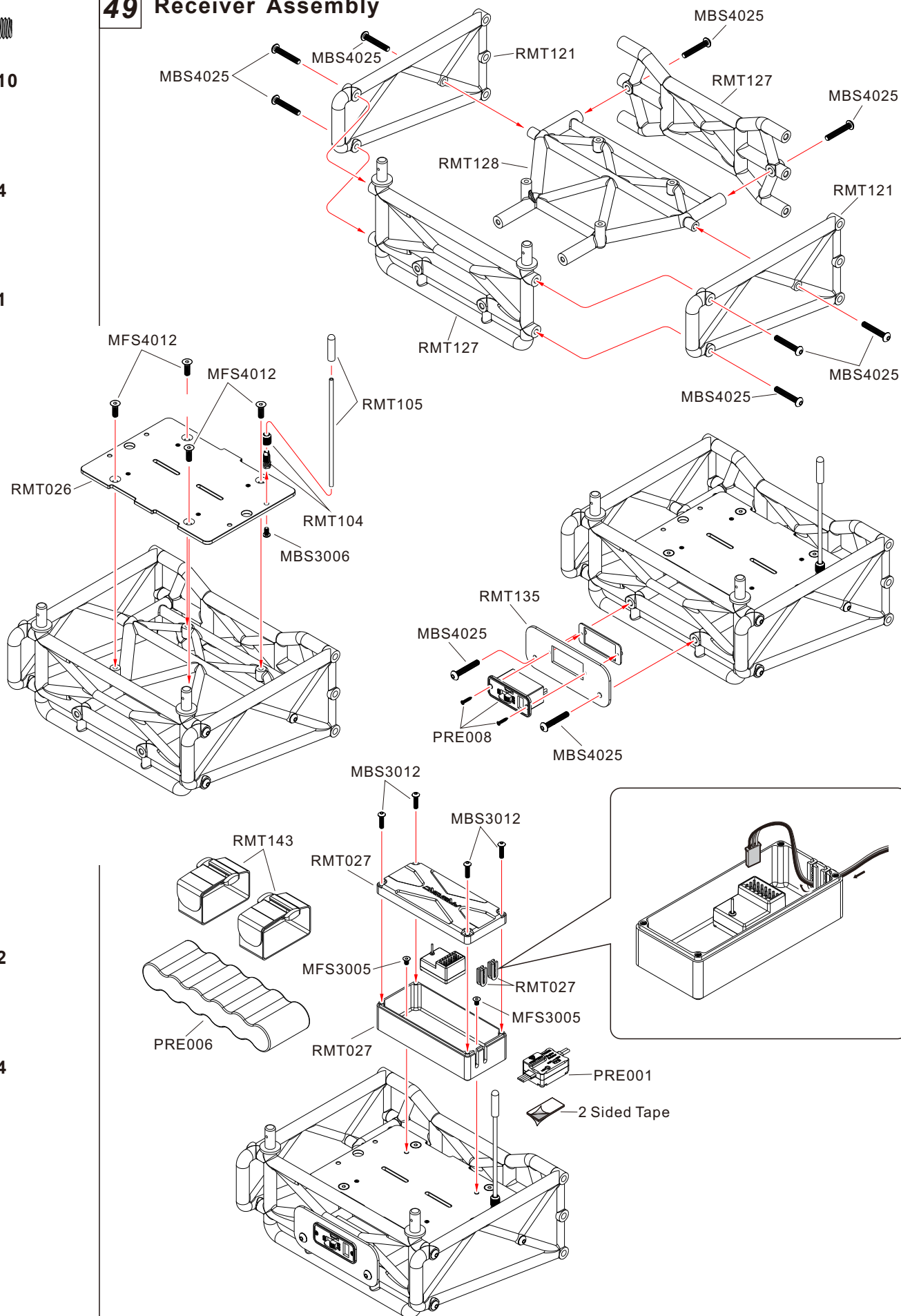
MBS3006
M3×6mm ×1



MFS3005
M3×5mm ×2



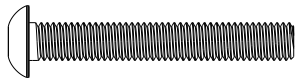
MBS3012
M3×12mm ×4



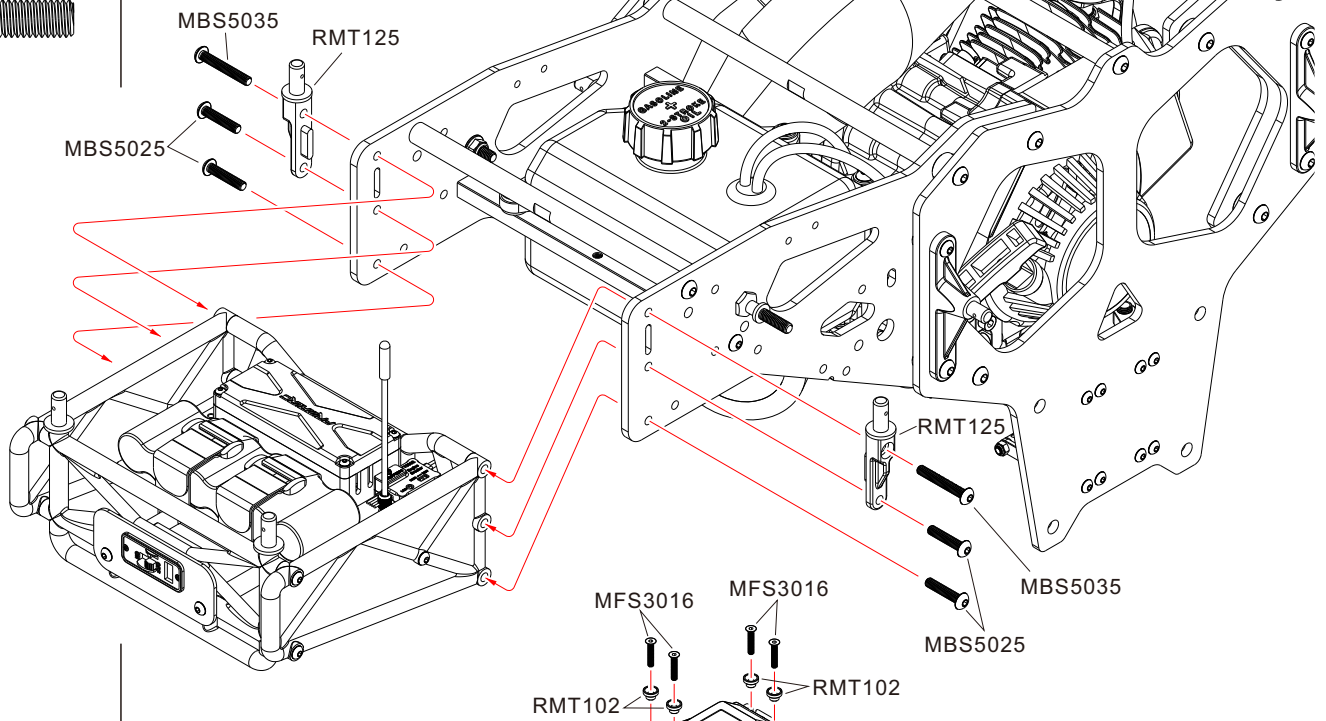
50



MBS5025
M5×25mm ×4



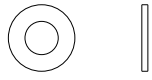
MBS5035
M5×35mm ×2



51



MFS3016
M3×16mm ×4



MWS040805
Washer 4×8×0.5mm ×1



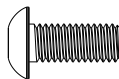
MCS2508
M2.5×8mm ×1



MCS3008
M3×8mm ×1

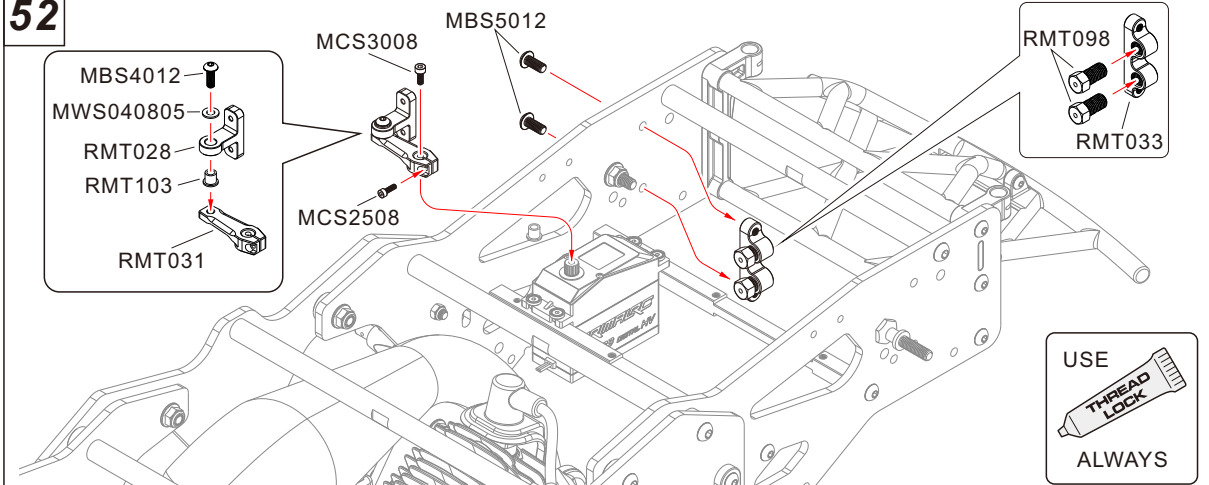


MBS4012
M4×12mm ×1

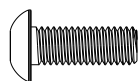


MBS5012
M5×12mm ×2

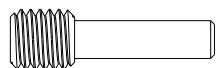
52



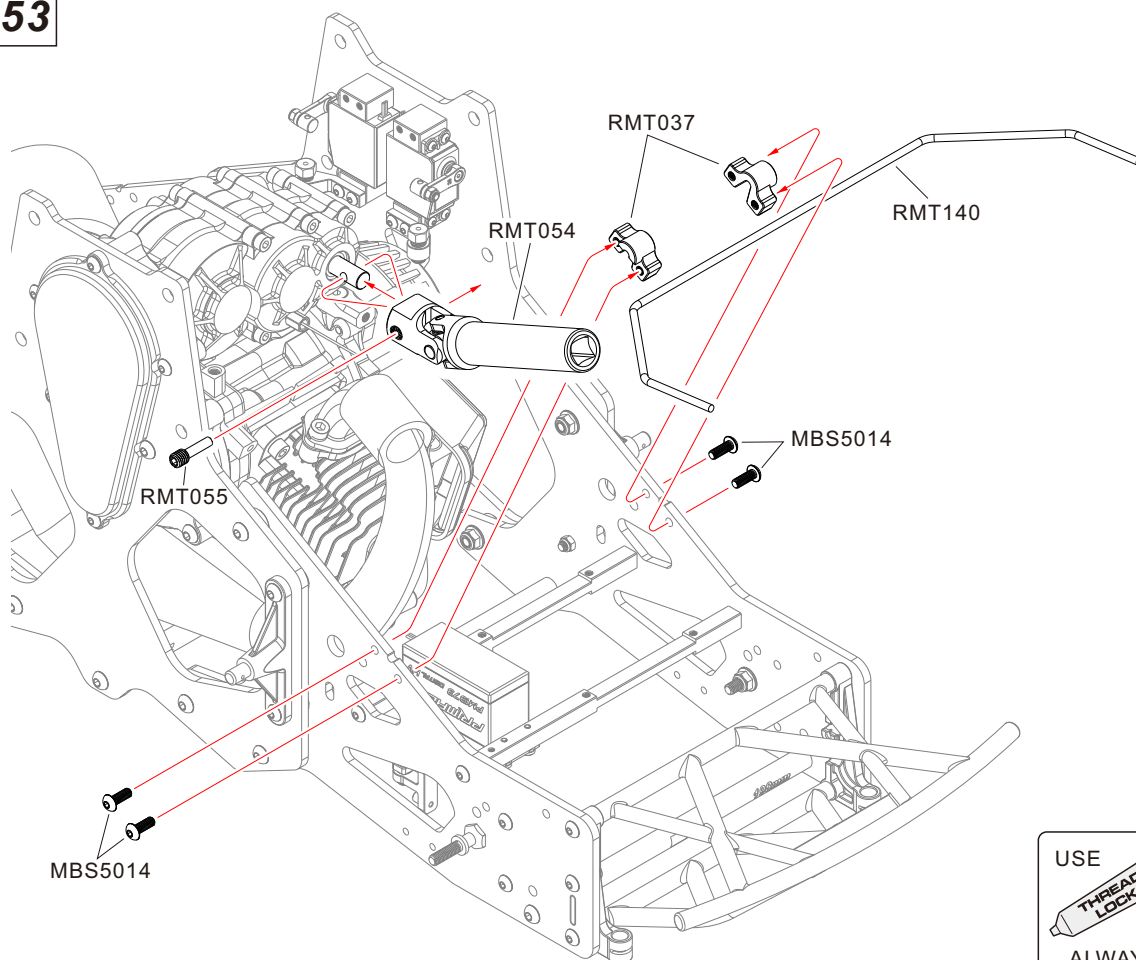
53



MBS5014
M5×14mm ×4

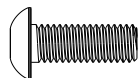


RMT055
M8×27mm ×1



USE
THREAD
LOCK
ALWAYS

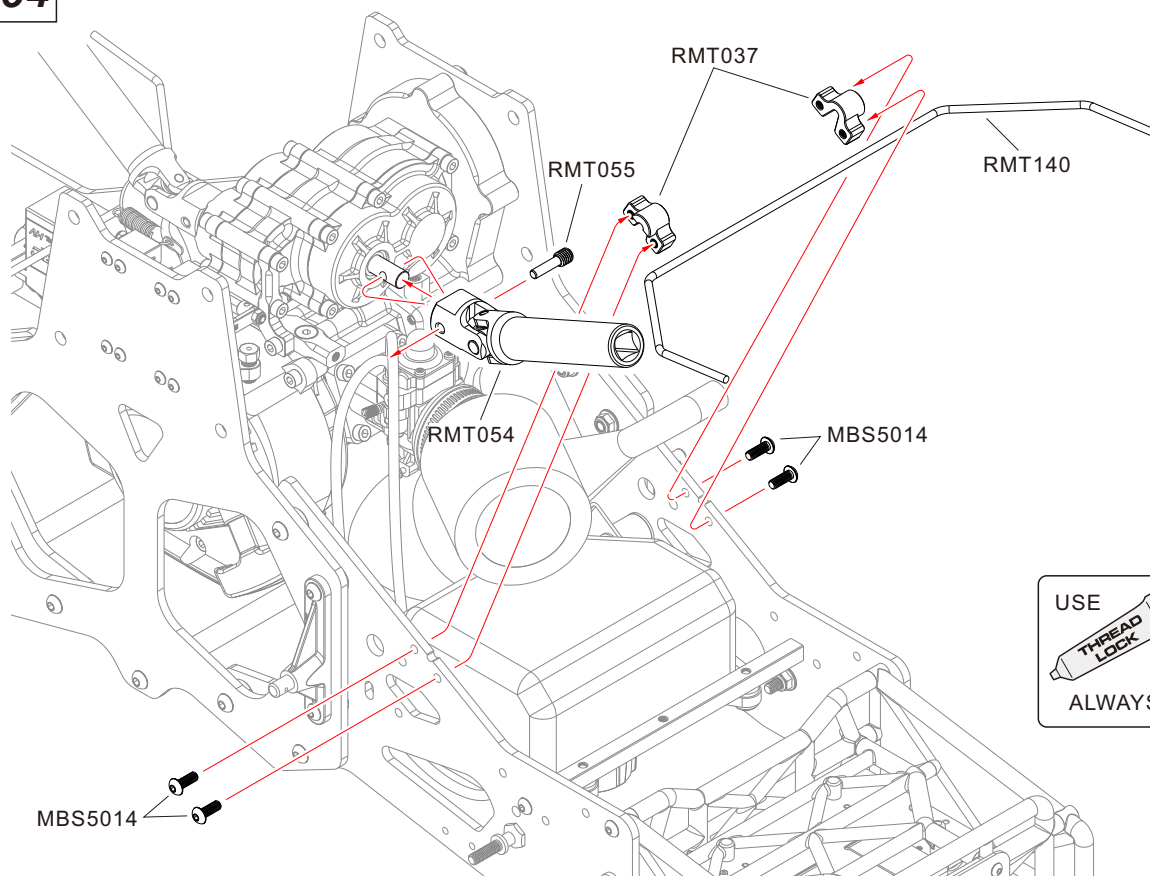
54



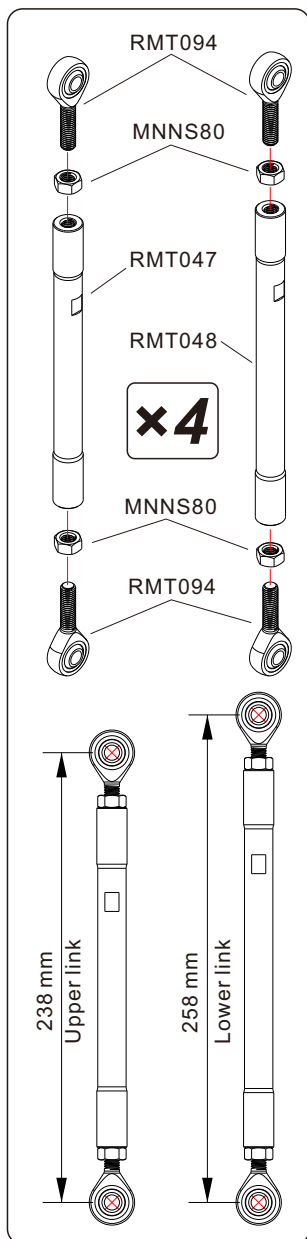
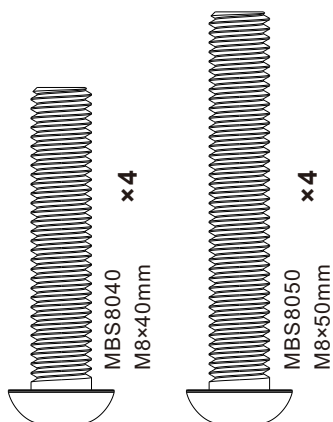
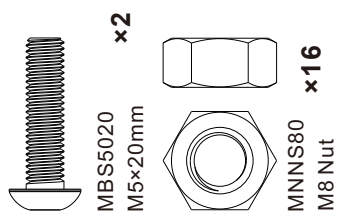
MBS5014
M5×14mm ×4



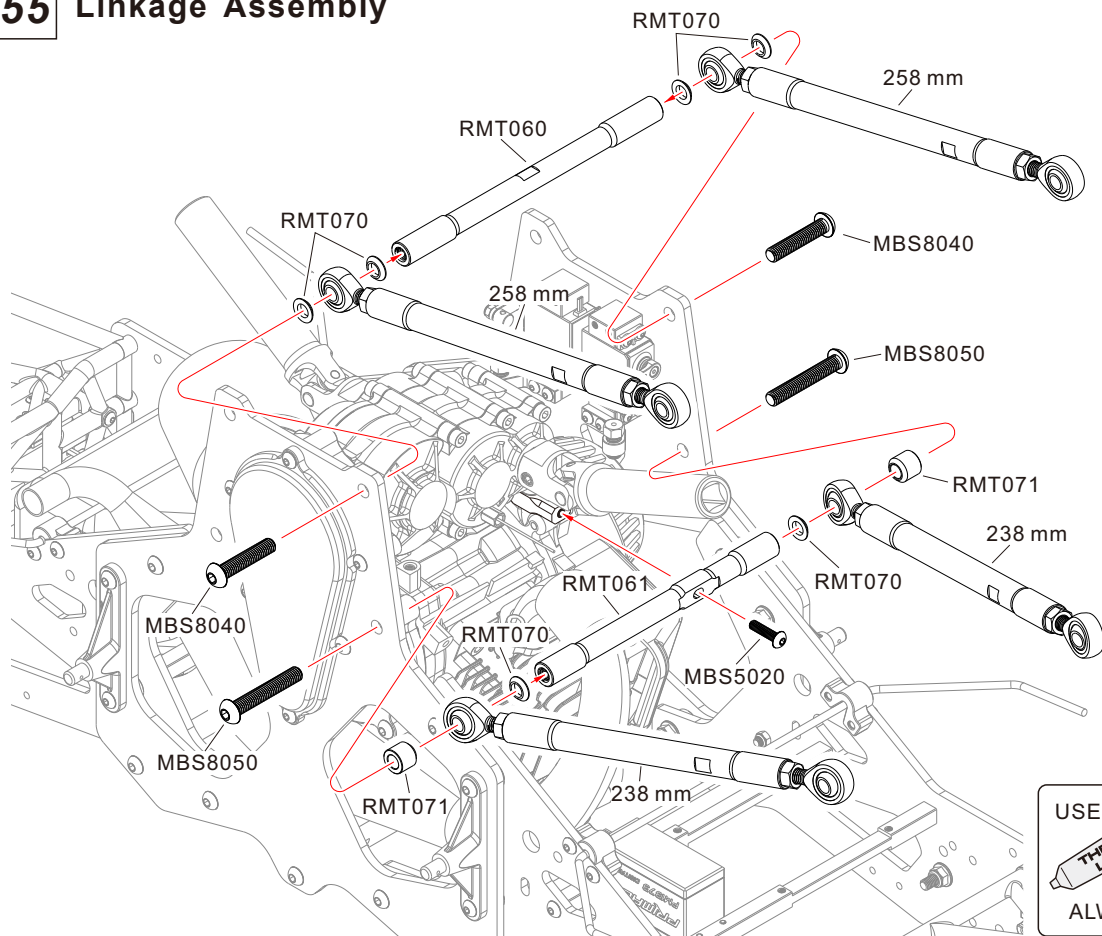
RMT055
M8×27mm ×1



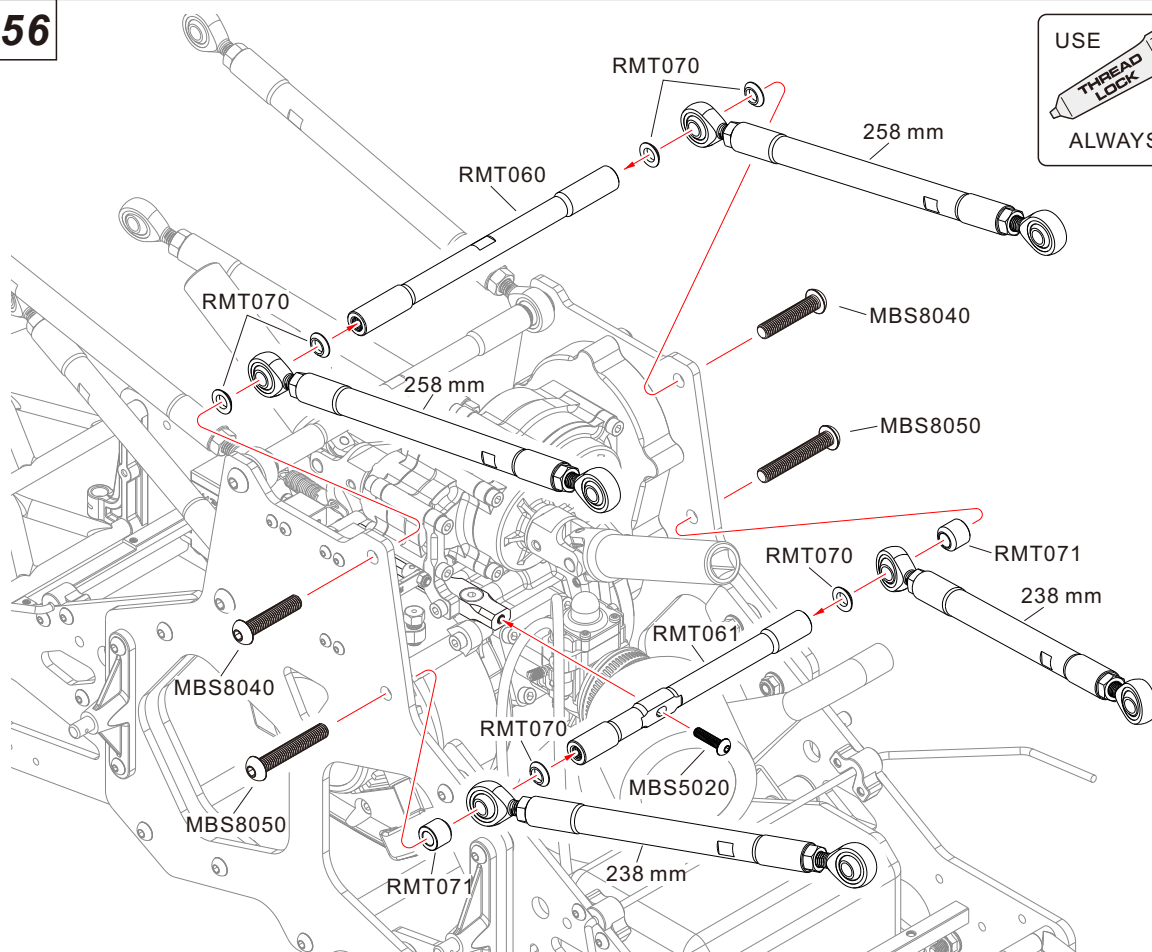
USE
THREAD
LOCK
ALWAYS



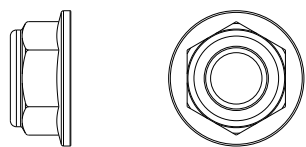
55 Linkage Assembly



56

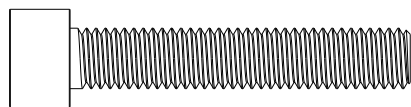


57 Axle Assembly



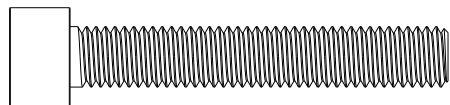
MNS80
M8 Nylon Lock Nut

×2



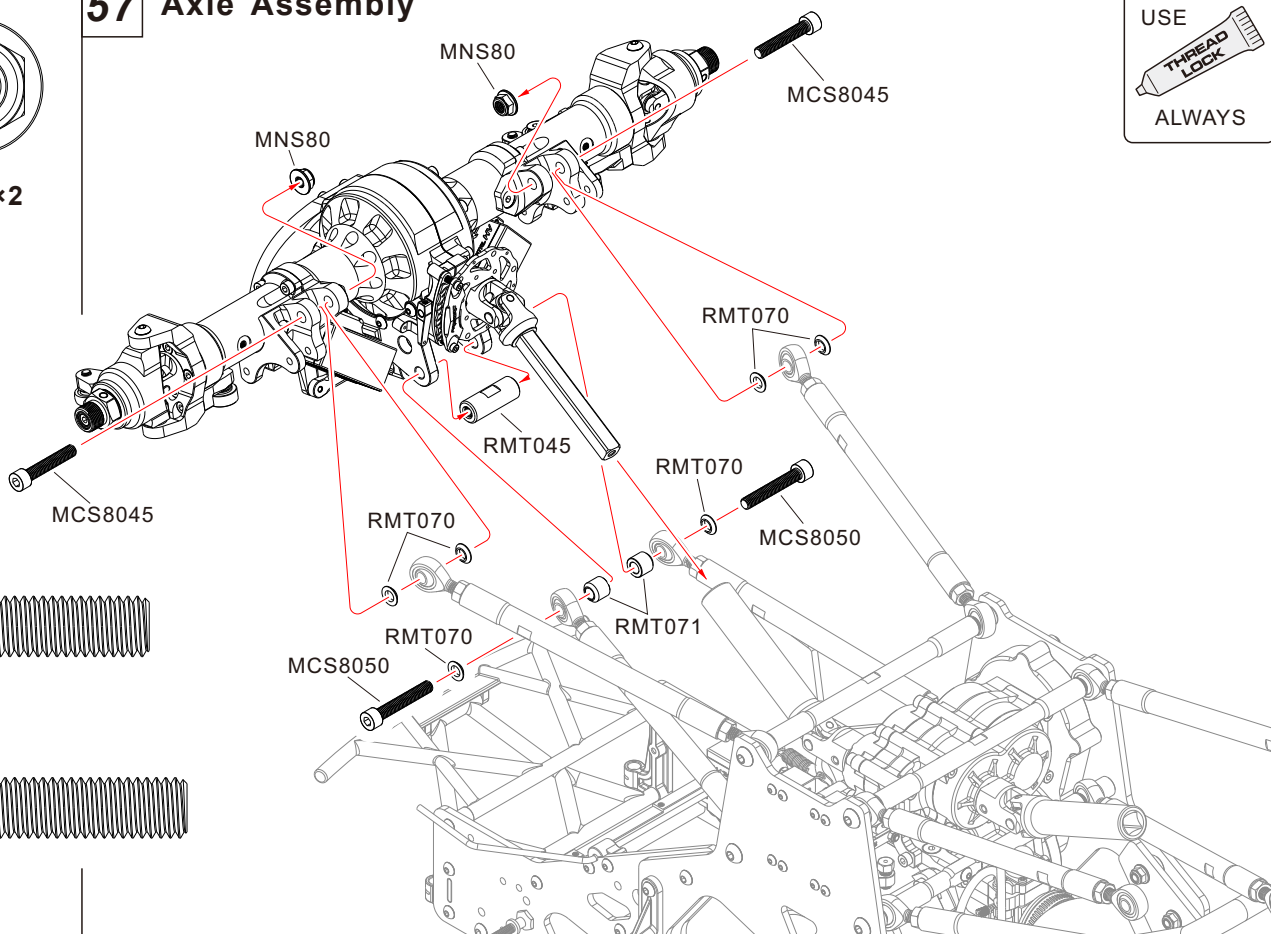
MCS8045
M8x45mm

×2



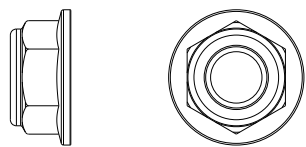
MCS8050
M8x50mm

×2



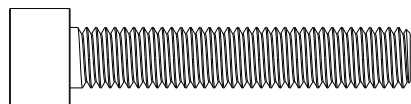
USE
THREAD
LOCK
ALWAYS

58



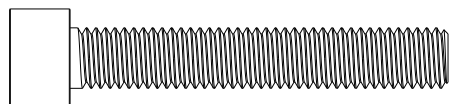
MNS80
M8 Nylon Lock Nut

×2



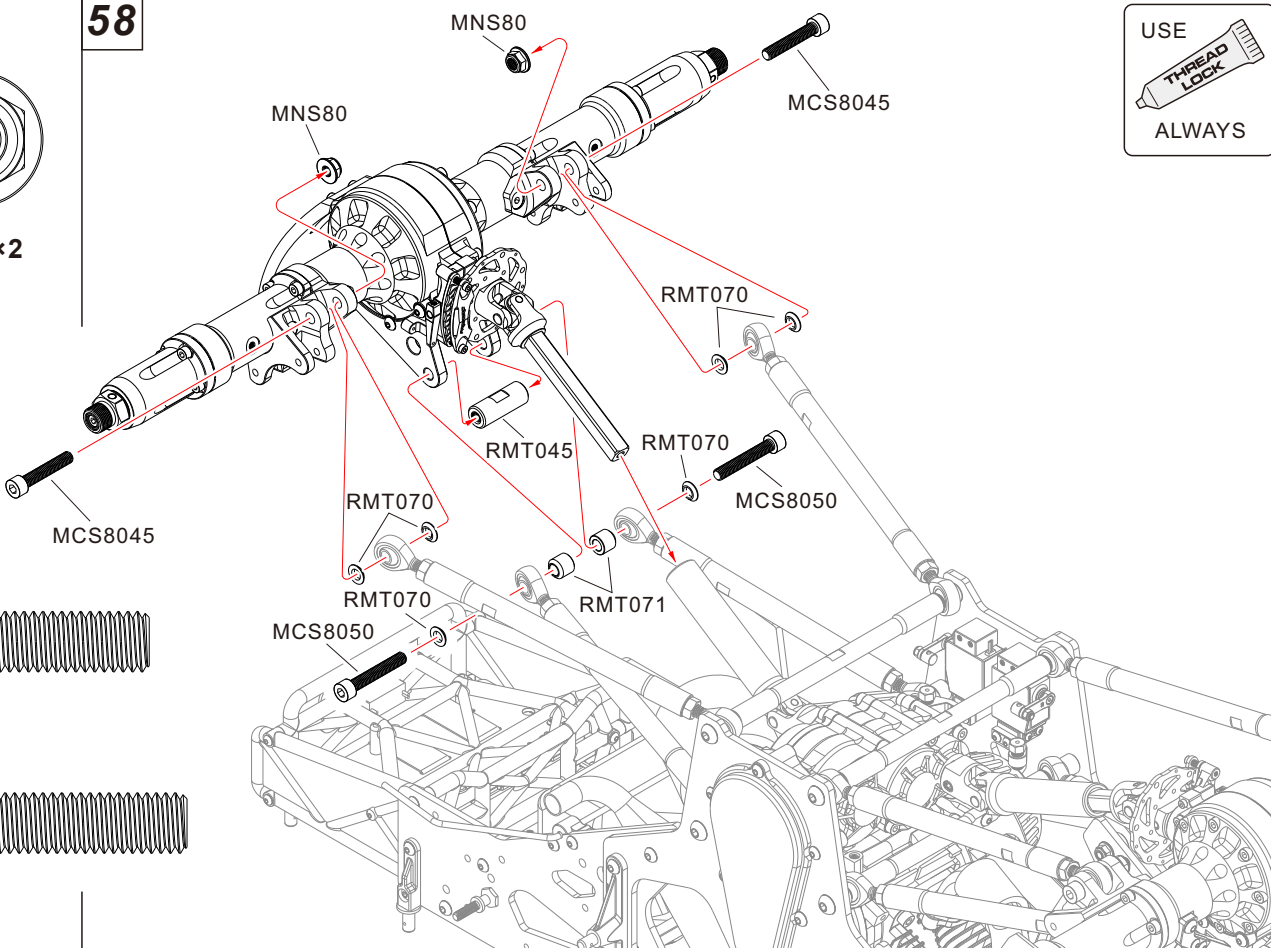
MCS8045
M8x45mm

×2



MCS8050
M8x50mm

×2

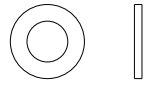


USE
THREAD
LOCK
ALWAYS



MWS030810
Washer 3x8x1mm

×4



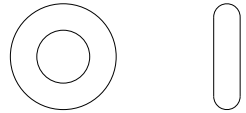
MWS051010
Washer 5x10x1mm

×4



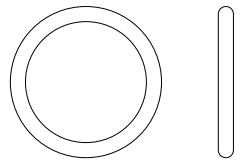
MBS3008
M3x8mm

×4



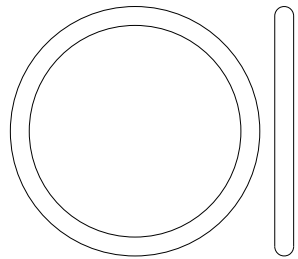
ORS14035
O-Ring D14x3.5mm

×2



ORS20020
O-Ring D20x2mm

×2

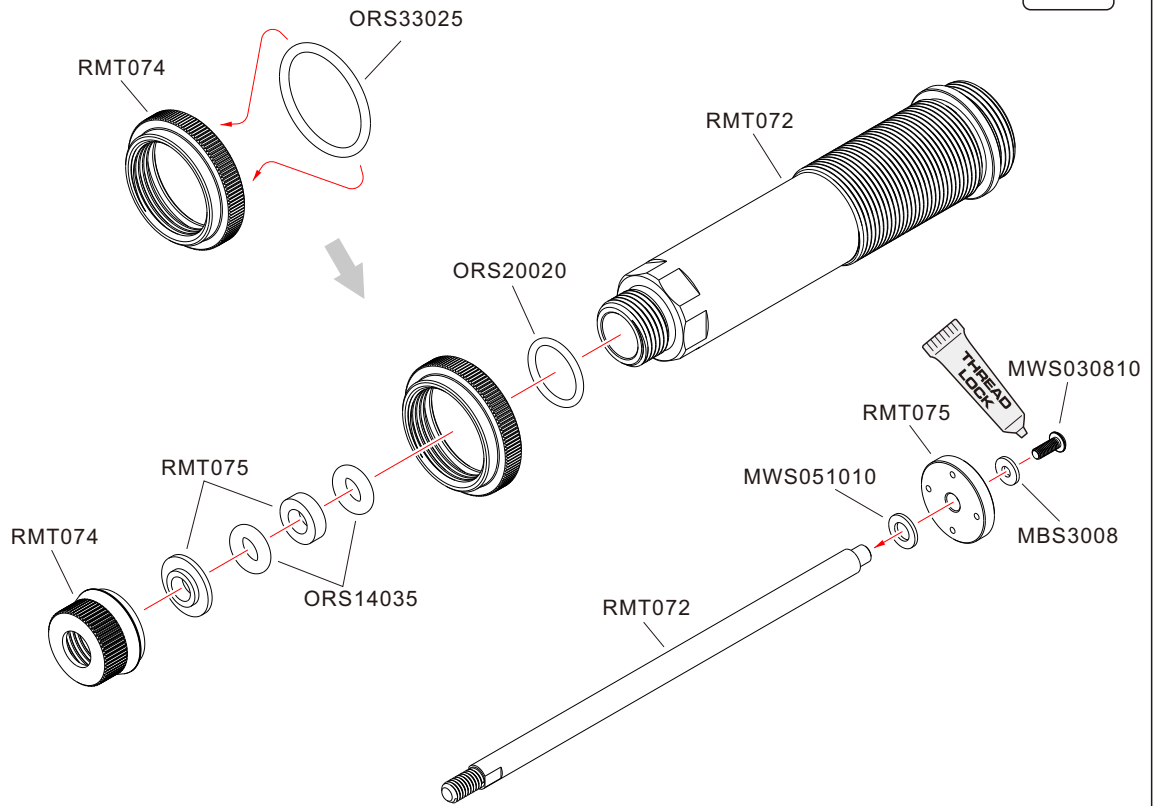


ORS33025
O-Ring D33x2.5mm

×2

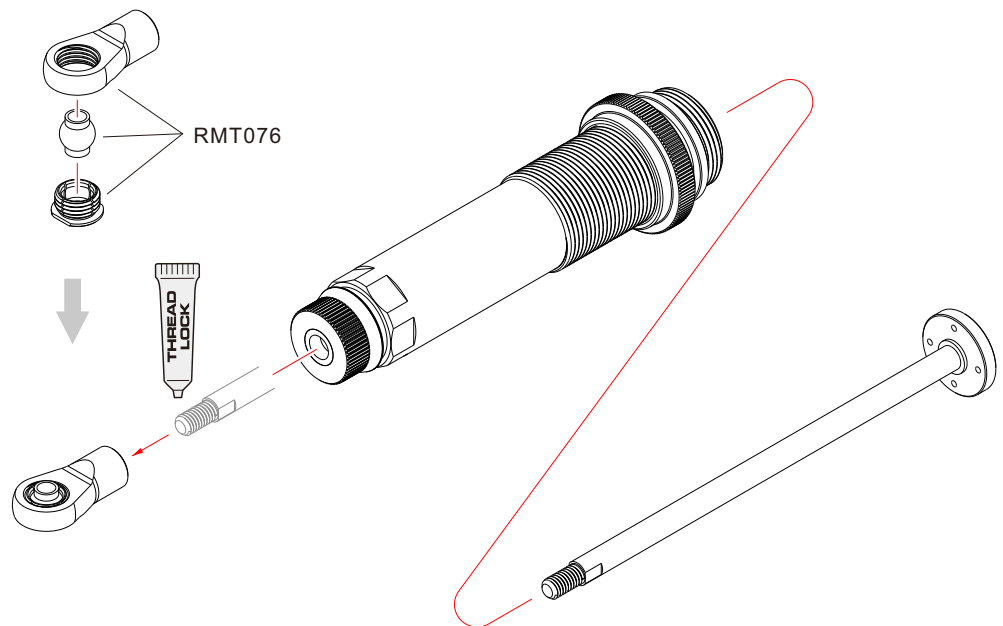
59 Shock Assembly

×4

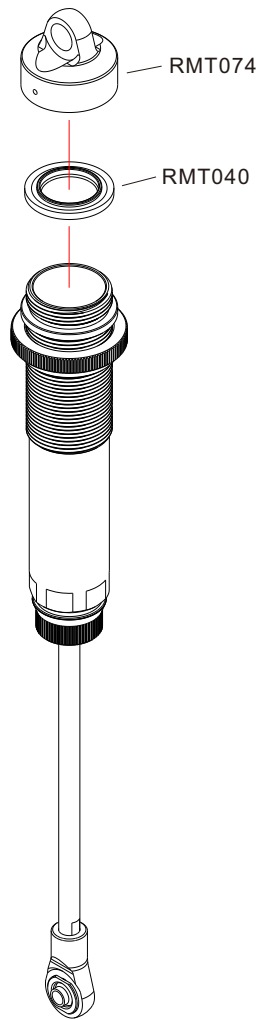
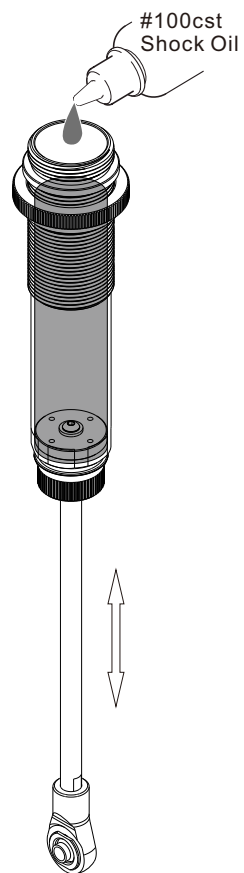


60

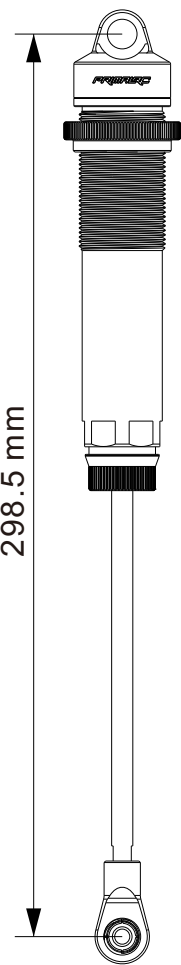
×4



61

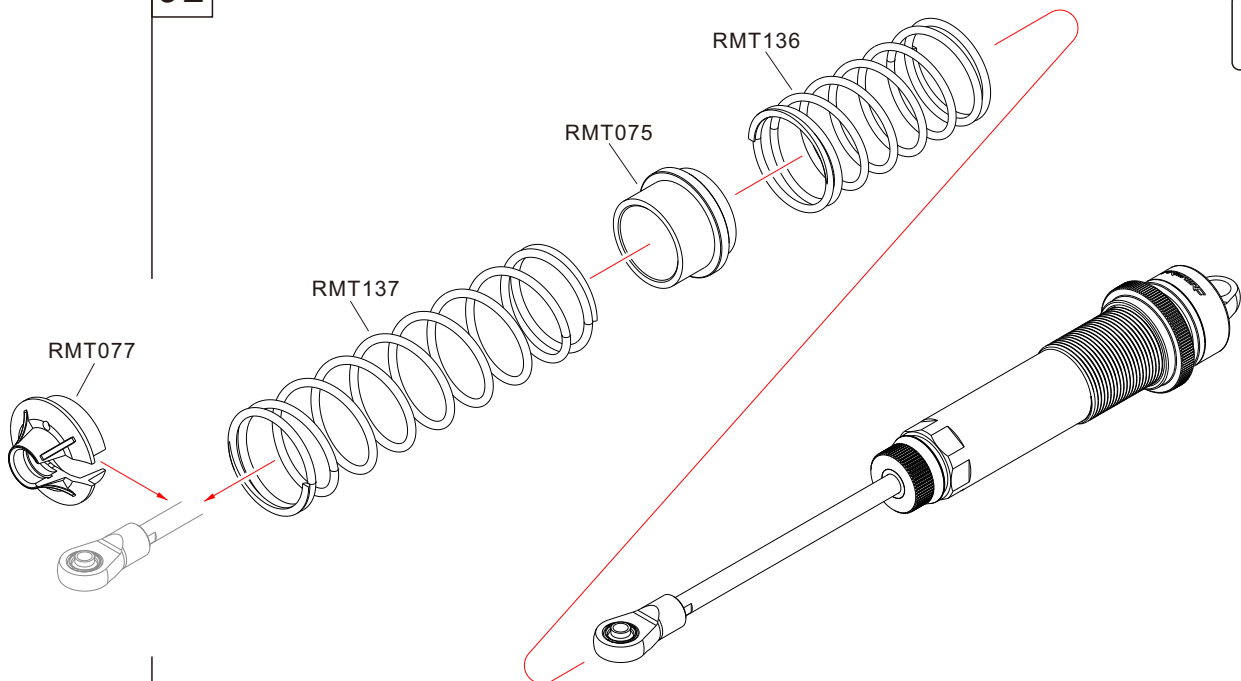


298.5 mm



×4

62



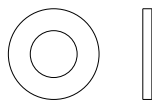
×4



MNS50
M5 Nylon Lock Nut ×4



MCS5030
M5x30mm ×4

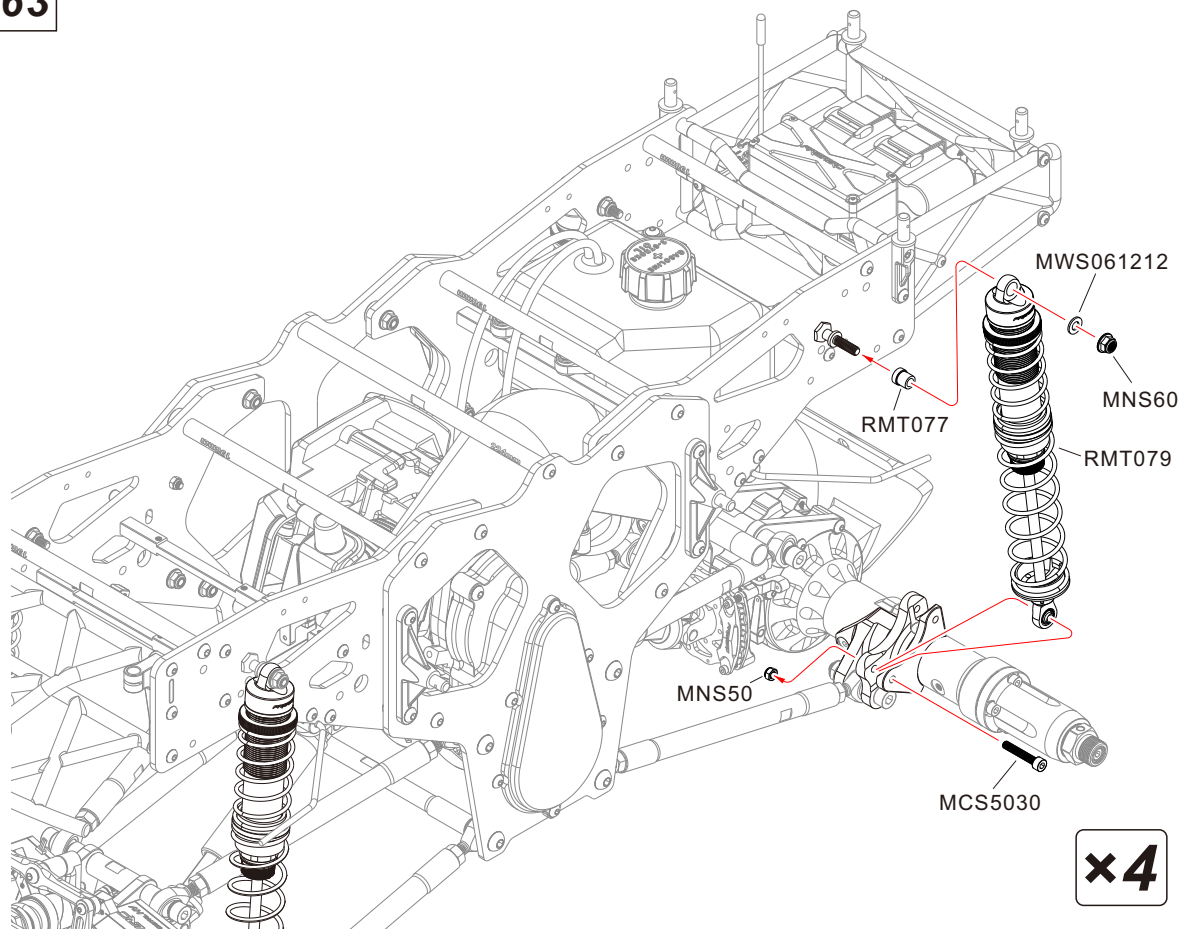


MWS061212
Washer 6x12x1.2mm ×4



MNS60
M6 Nylon Lock Nut ×4

63



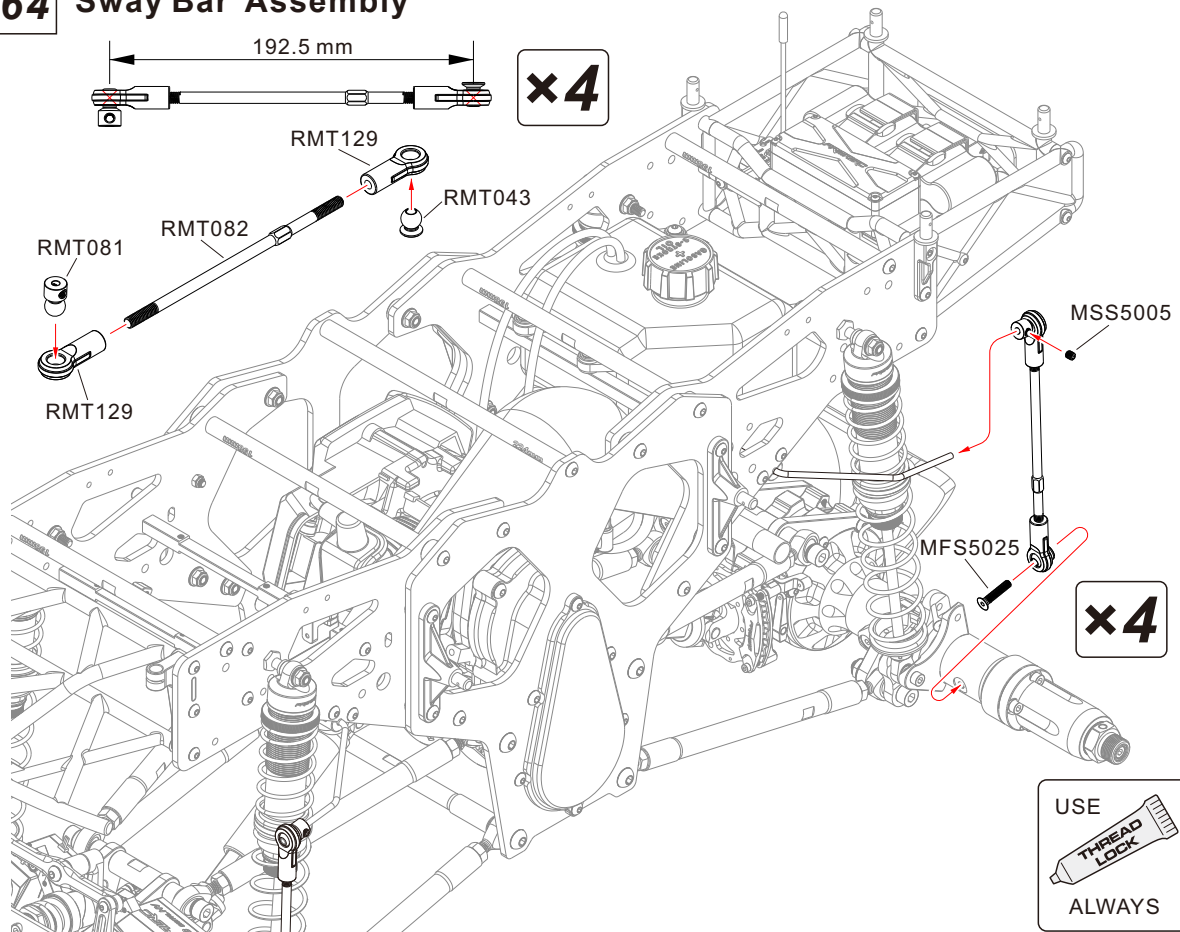
MSS5005
M5x5mm ×4



MFS5025
M5x25mm ×4

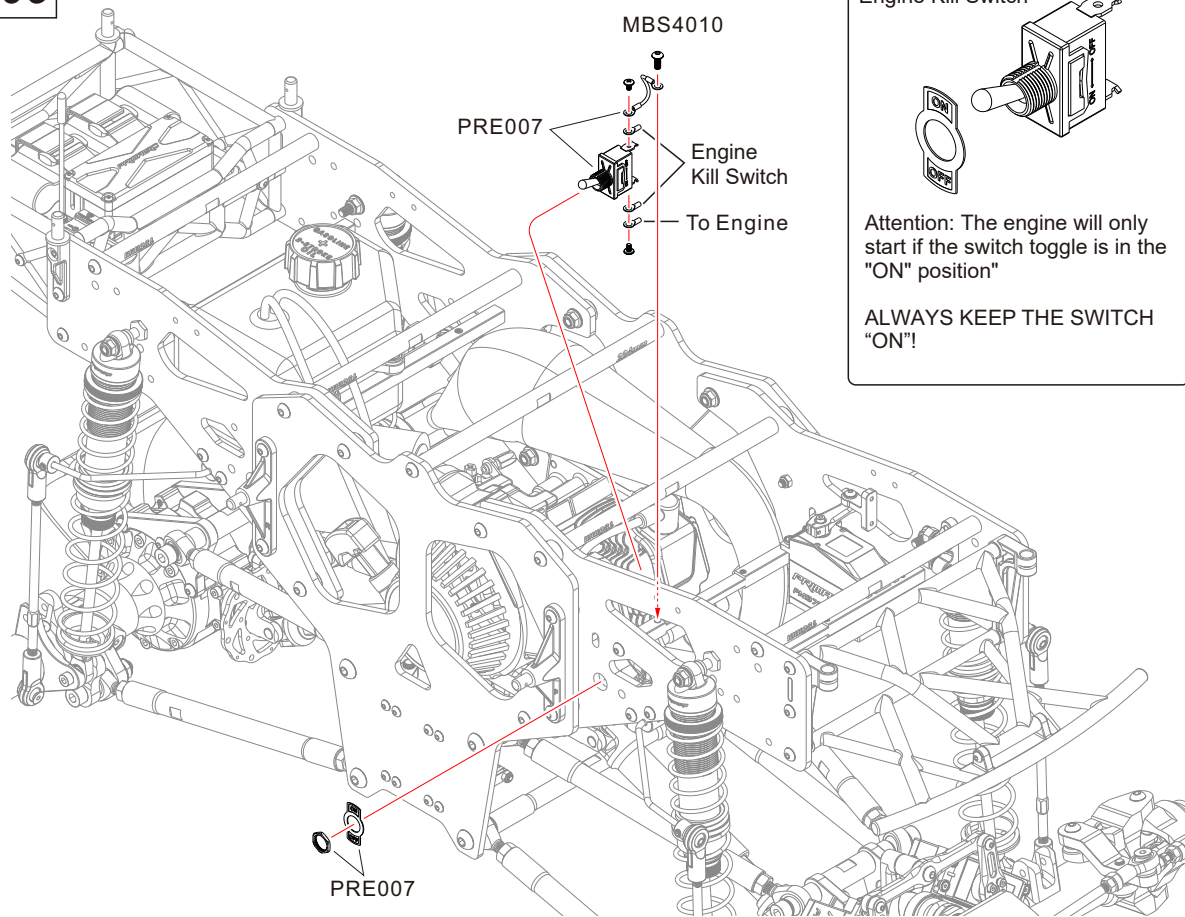
64

Sway Bar Assembly

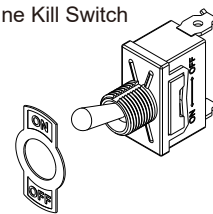


x1

65



Engine Kill Switch



Attention: The engine will only start if the switch toggle is in the "ON" position

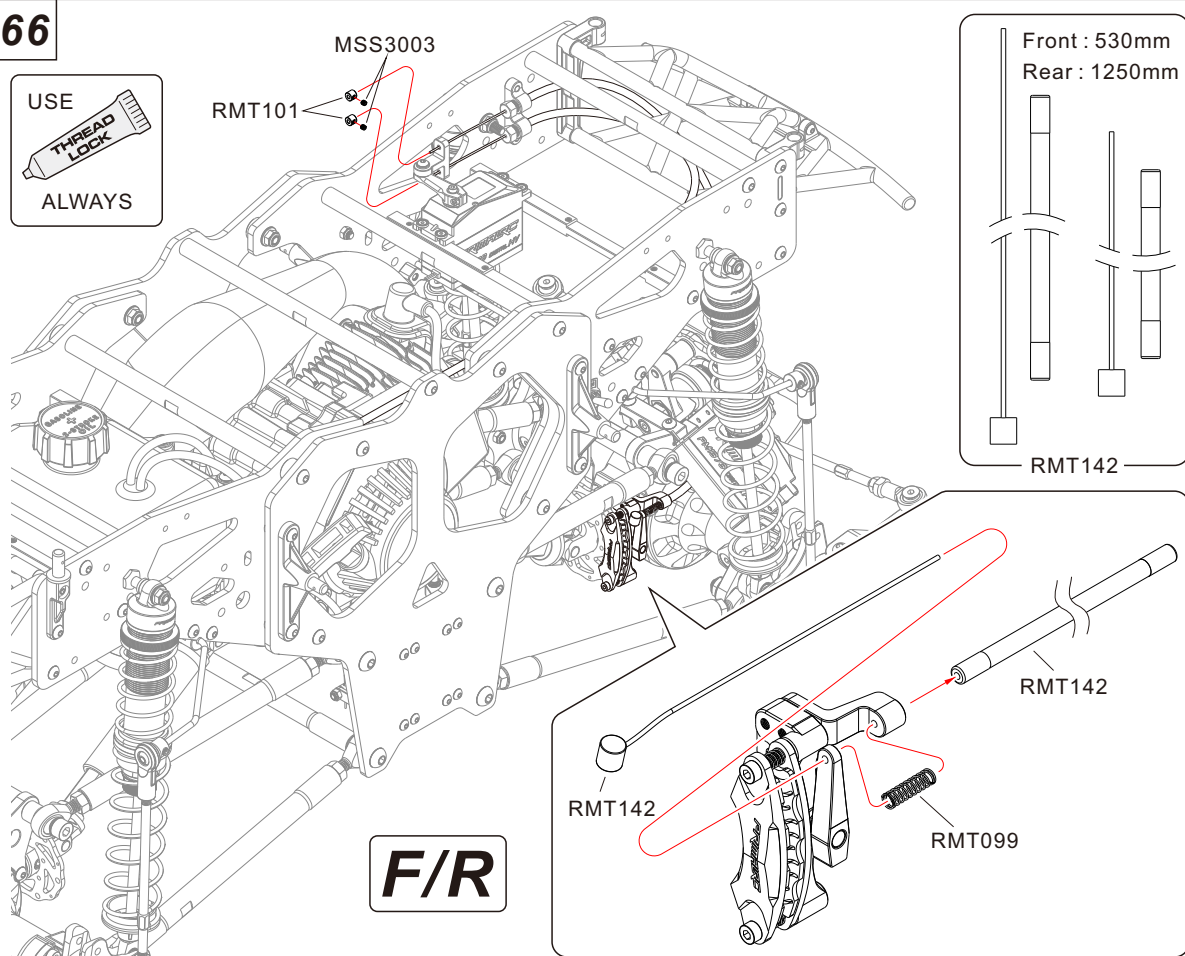
ALWAYS KEEP THE SWITCH
"ON"!

66



MSS3003
M3×3mm

x2



Front : 530mm
Rear : 1250mm

USE

THREADED LOCK

ALWAYS

MSS3003

RMT101-

- RMT142

RMT142

RMT142

RMT099

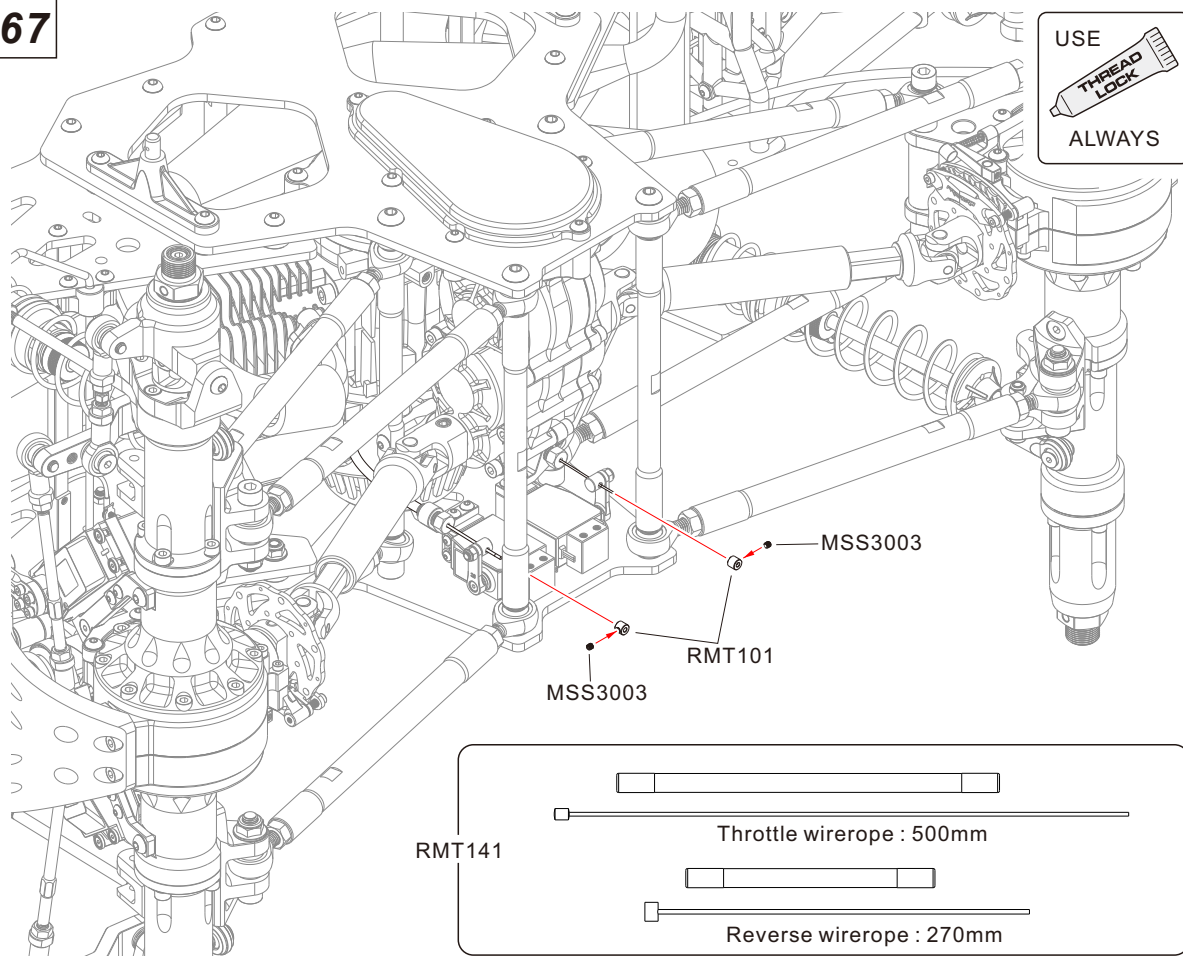
F/R



MSS3003
M3×3mm

×2

67



TCS3012
ST3×12mm

×2

68 Tire Assembly

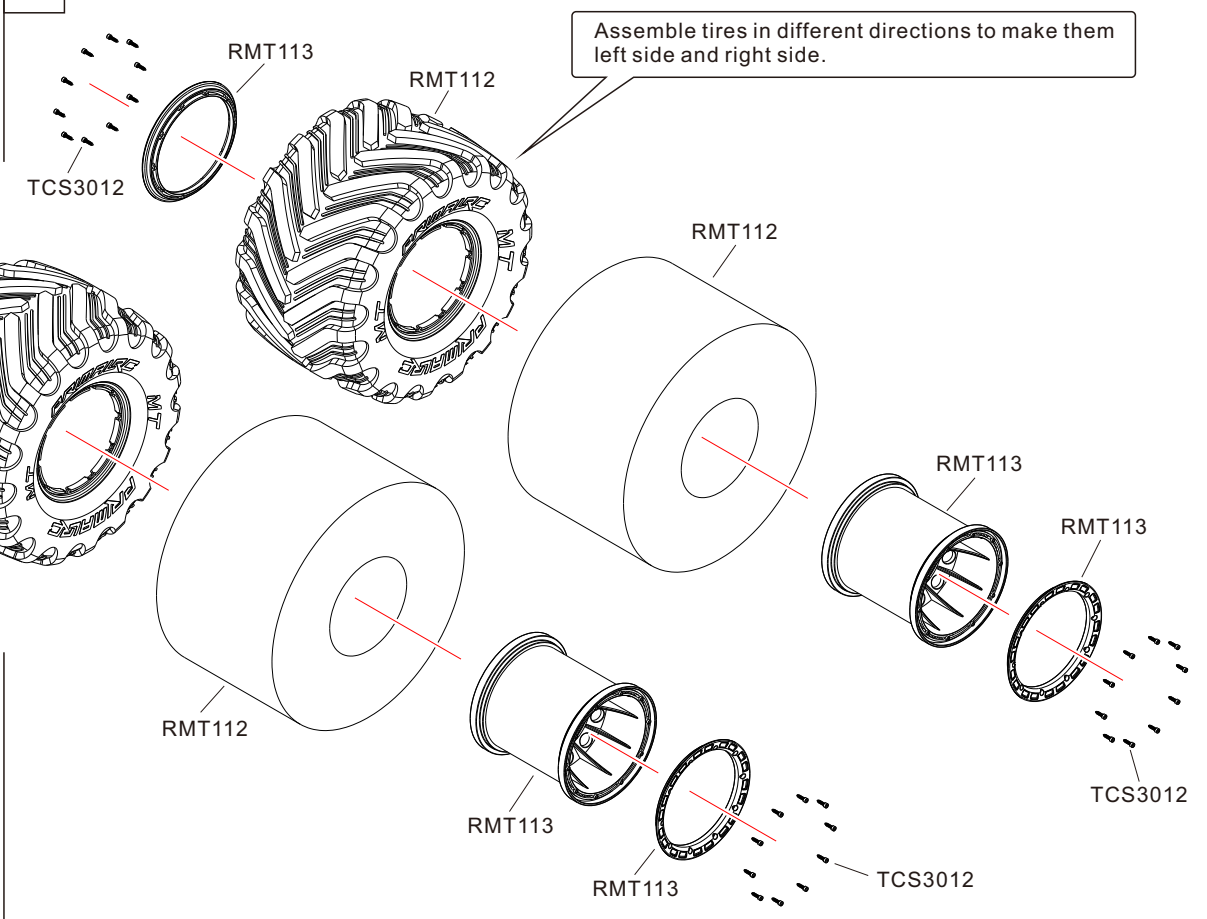
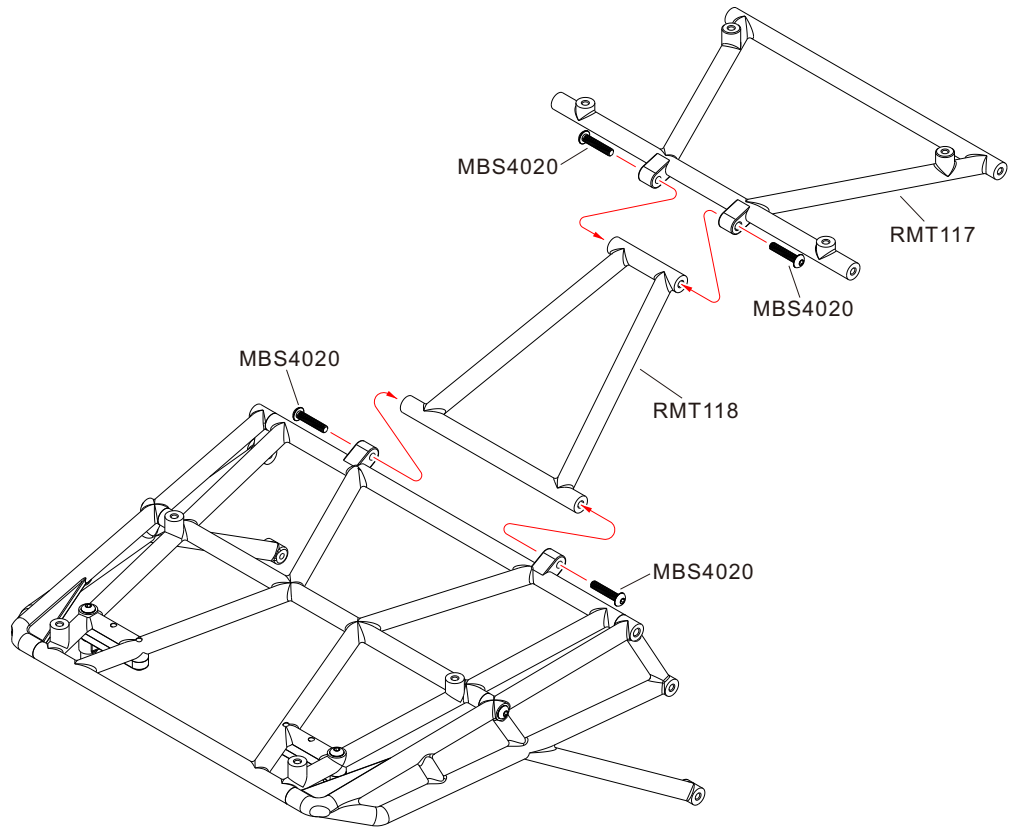


Diagram illustrating the installation of the RMT114 tire onto the RMT100 rim. The diagram shows the tire being mounted onto the rim, with a red line indicating the alignment. A note 'x4' indicates that four of these components are required.



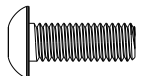
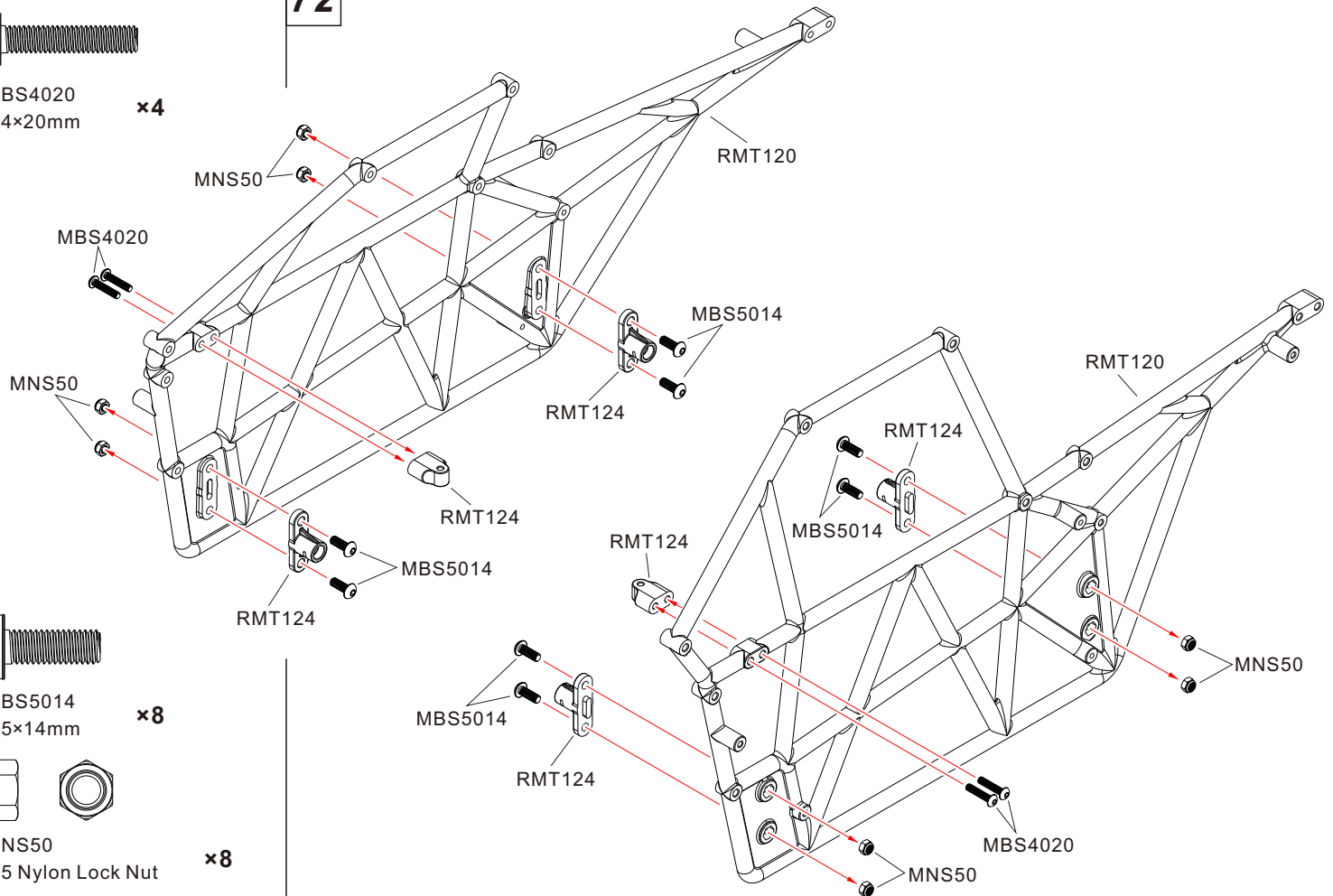
MBS4020
M4x20mm ×4

71

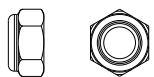


MBS4020
M4x20mm ×4

72



MBS5014
M5x14mm ×8



MNS50
M5 Nylon Lock Nut ×8

73



MBS4025
M4x25mm

×6

MBS4025

MBS4040

MBS4025

MBS4025

MBS4025

MBS4040

MBS4025

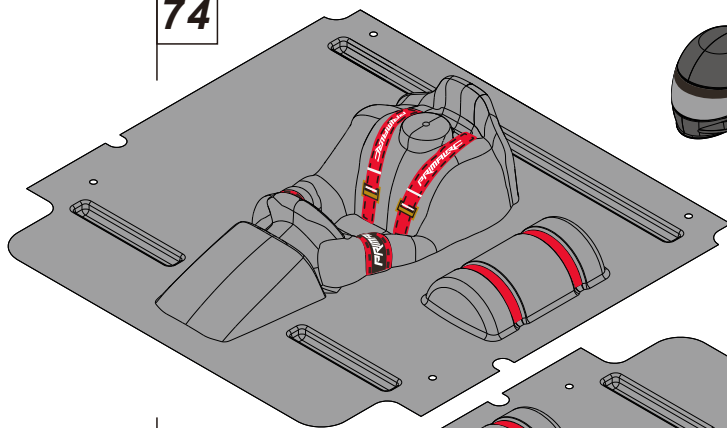
MBS4025



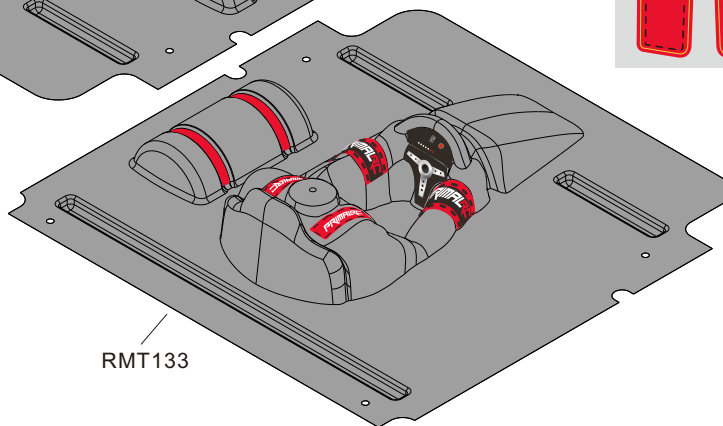
MBS4040
M4x40mm

×2

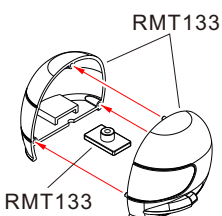
74



RMT133



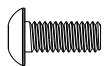
RMT133



RMT133

RMT133

75



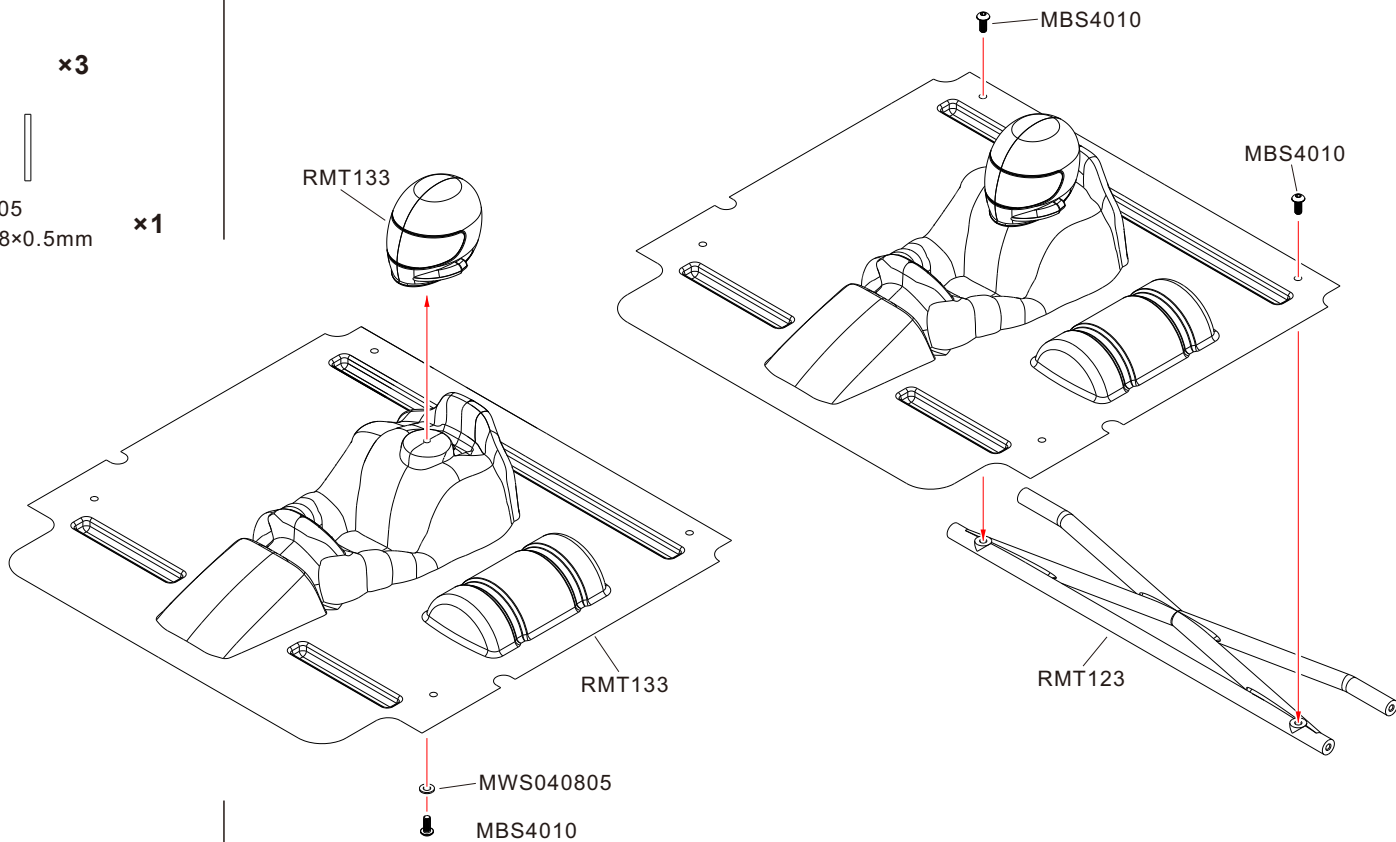
MBS4010
M4×10mm

×3

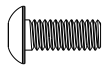


MWS040805
Washer 4×8×0.5mm

×1



76



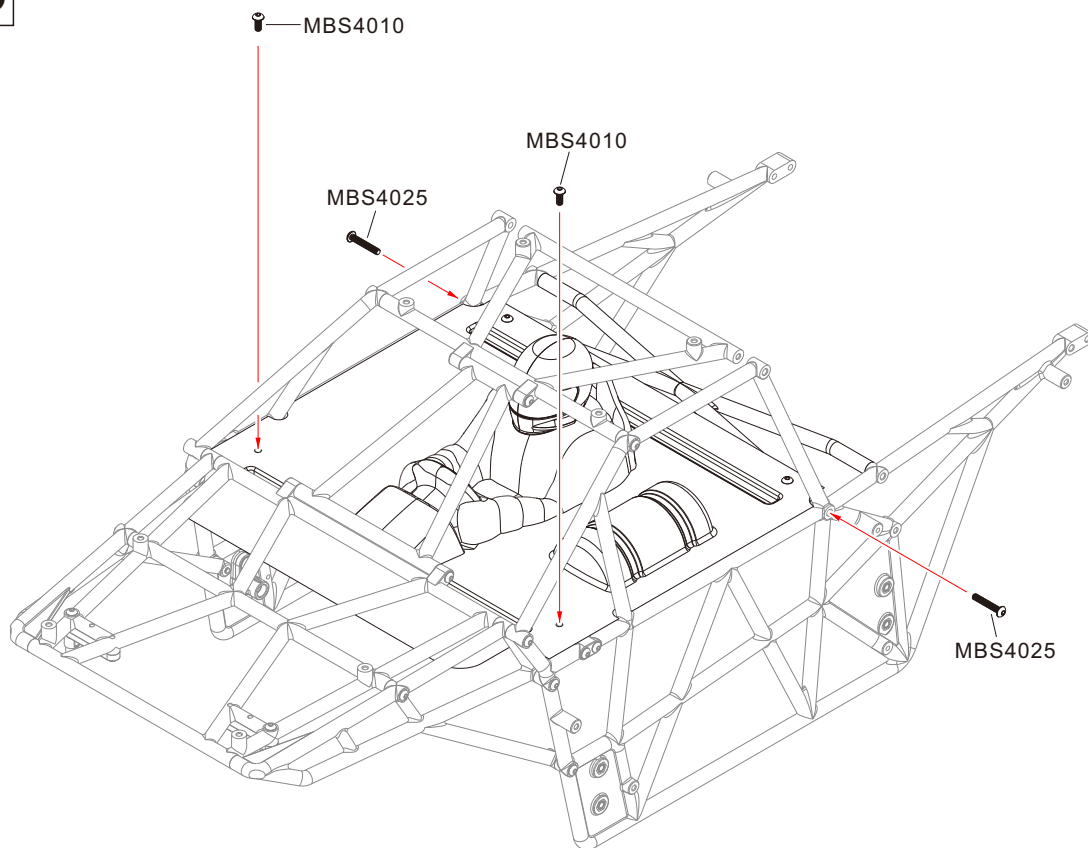
MBS4010
M4×10mm

×2



MBS4025
M4×25mm

×2



77



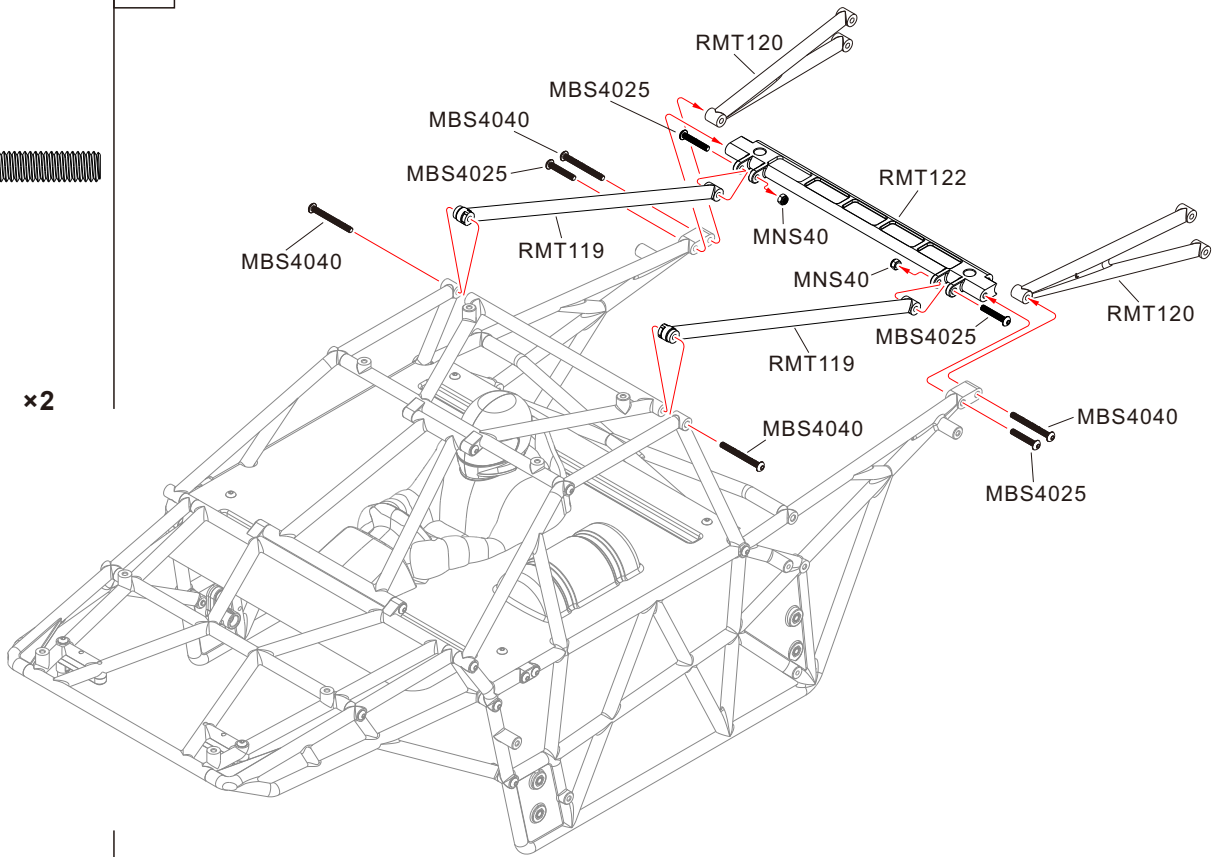
MBS4025
M4×25mm ×4



MBS4040
M4×40mm ×4



MNS40
M4 Nylon Lock Nut ×2



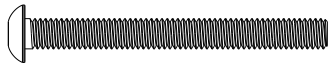
MBS4020
M4×20mm ×5



MBS4025
M4×25mm ×2

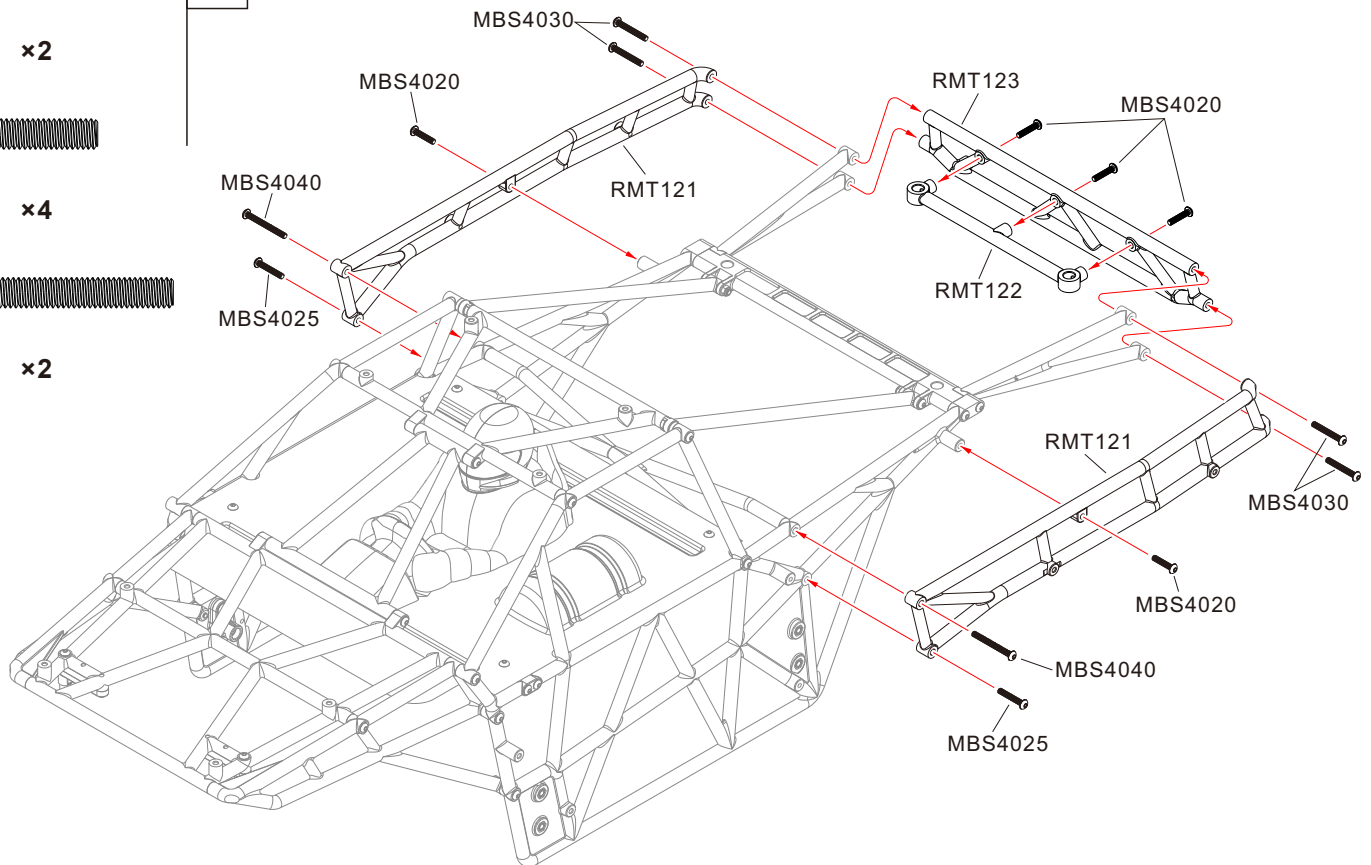


MBS4030
M4×30mm ×4

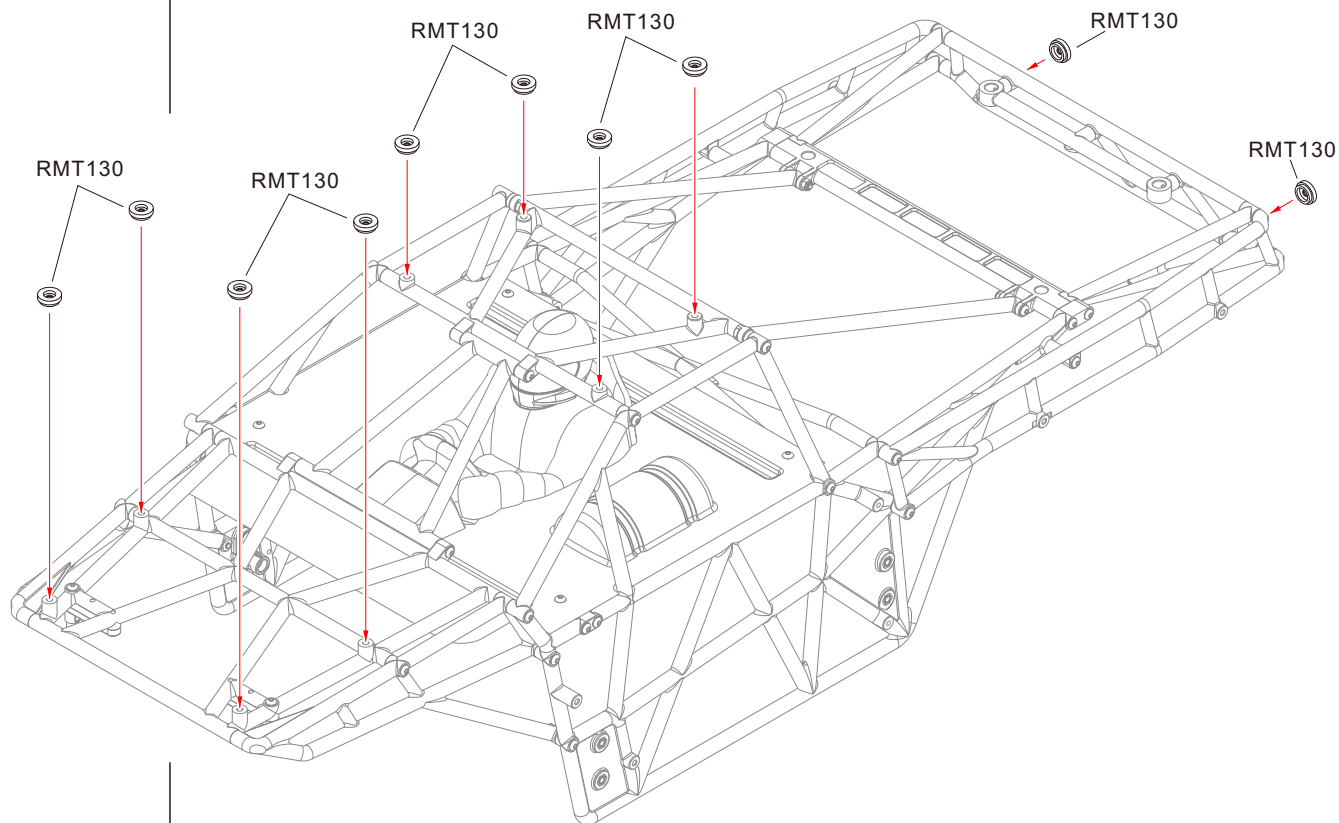


MBS4040
M4×40mm ×2

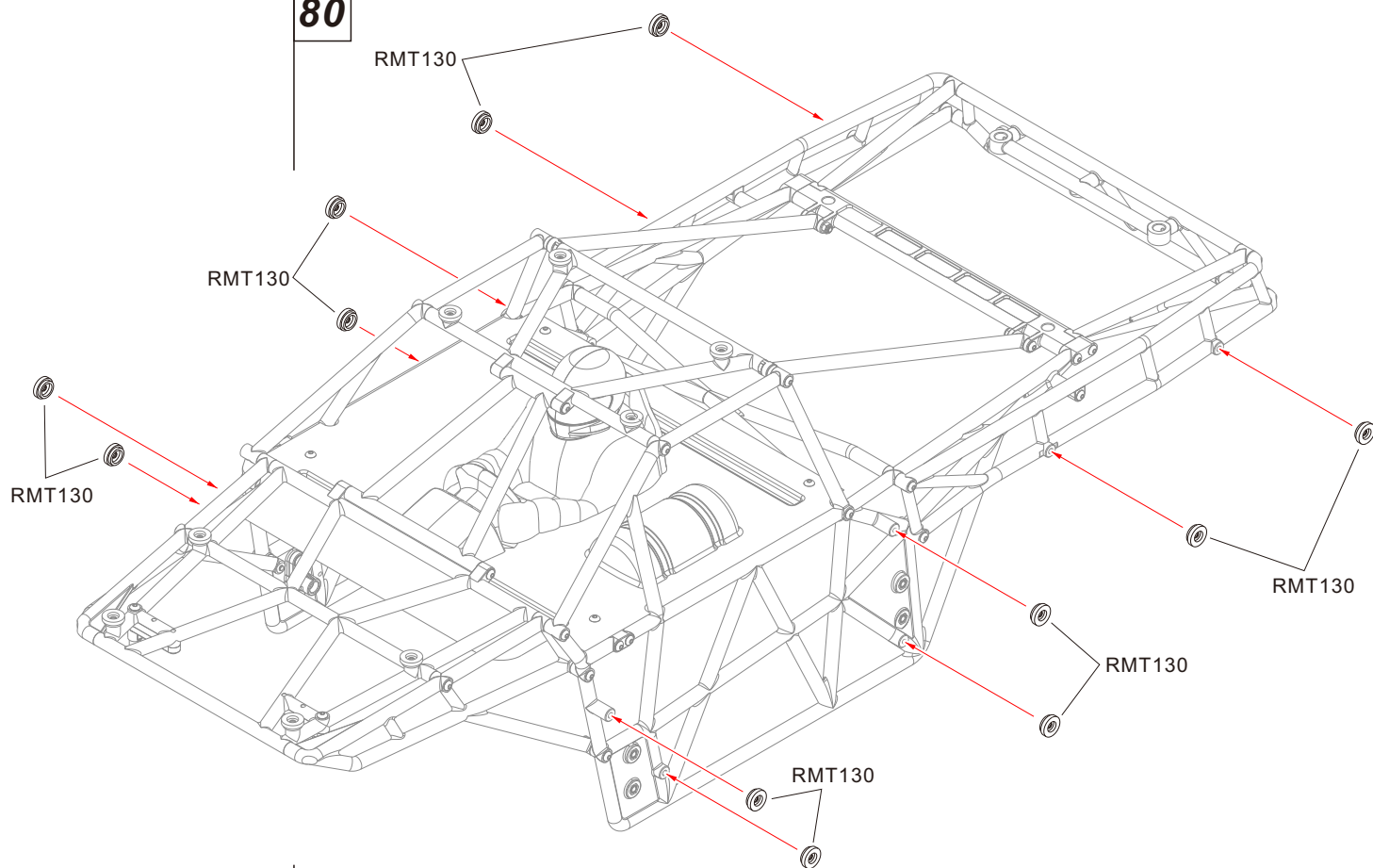
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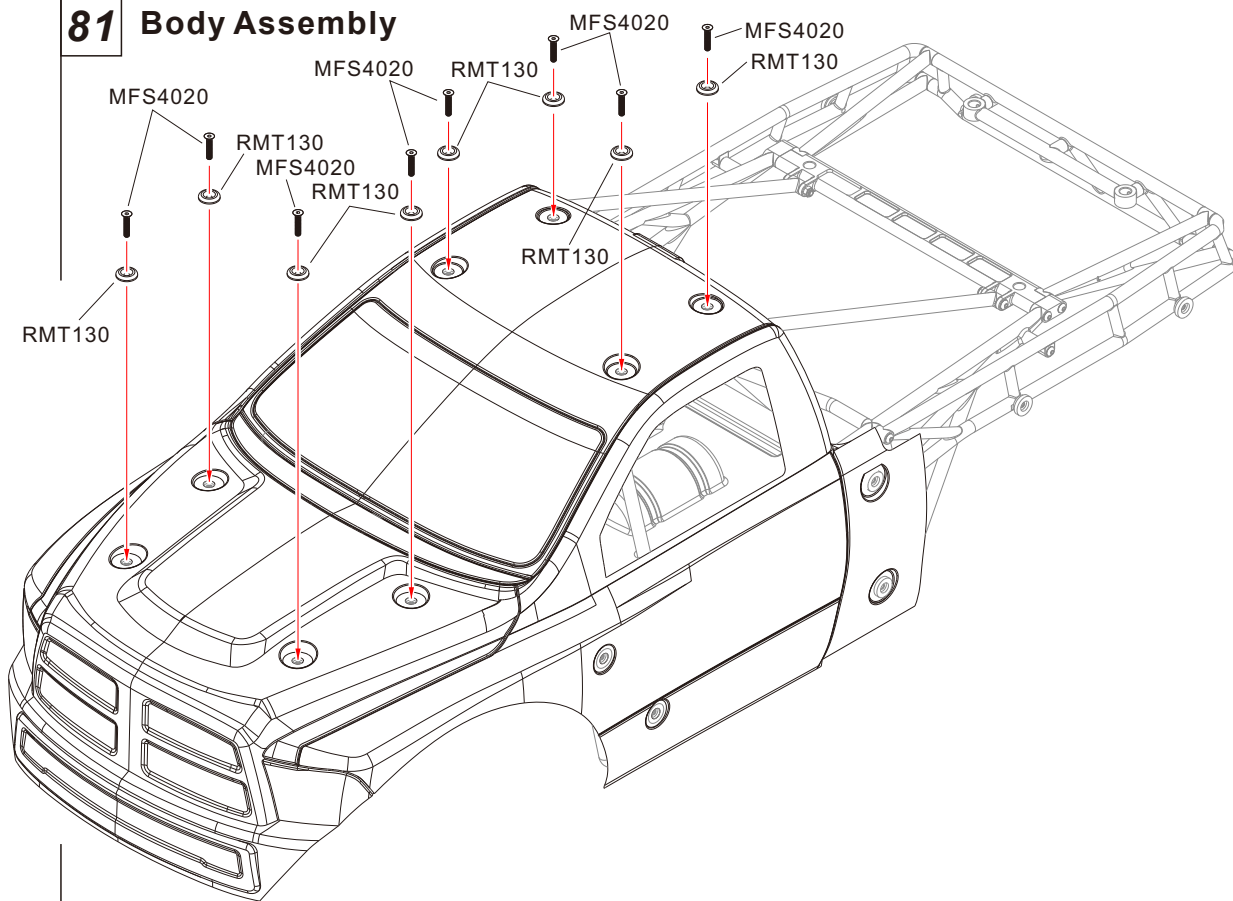
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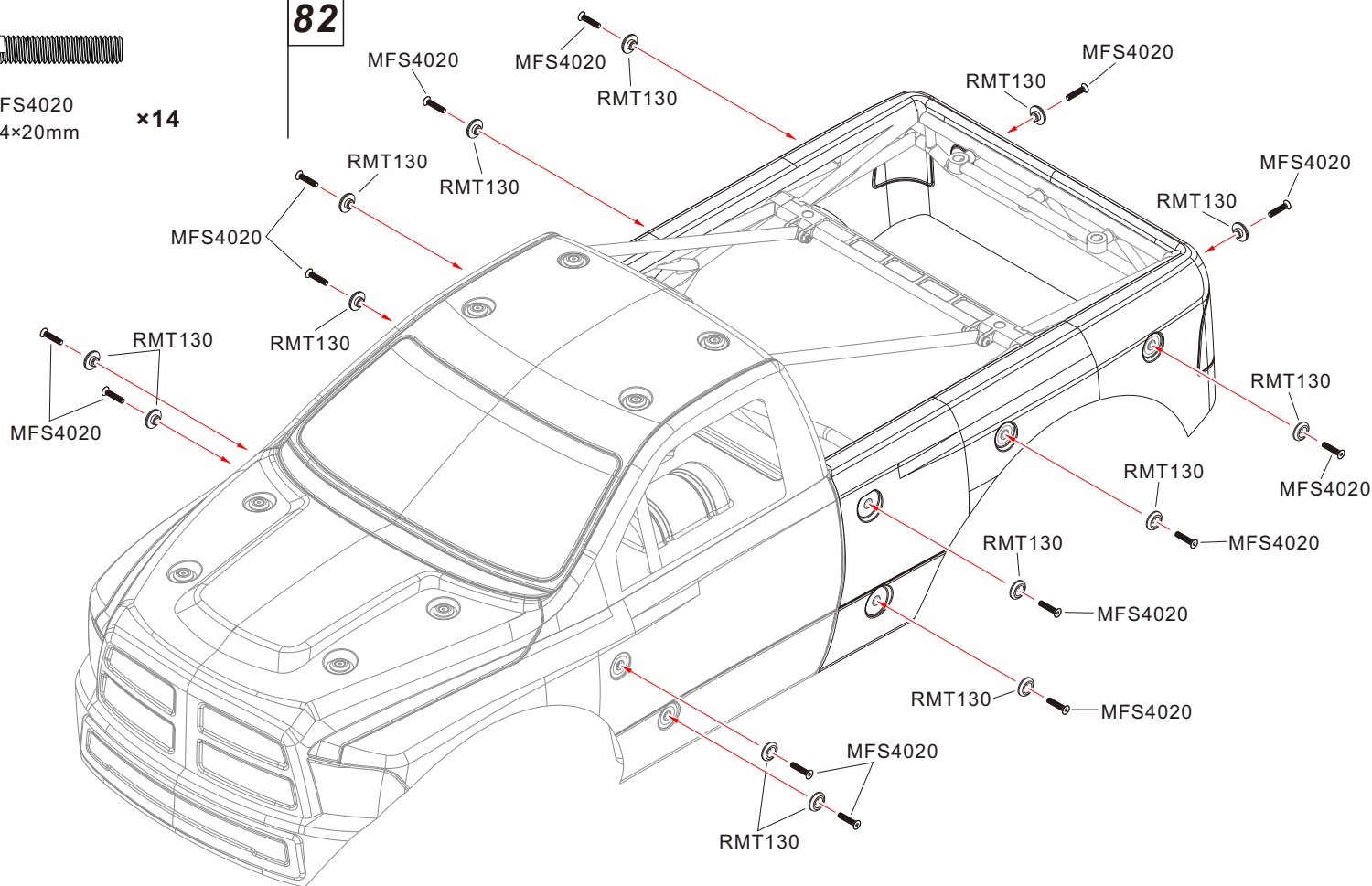
MFS4020
M4×20mm ×8

81 Body Assembly



MFS4020
M4×20mm ×14

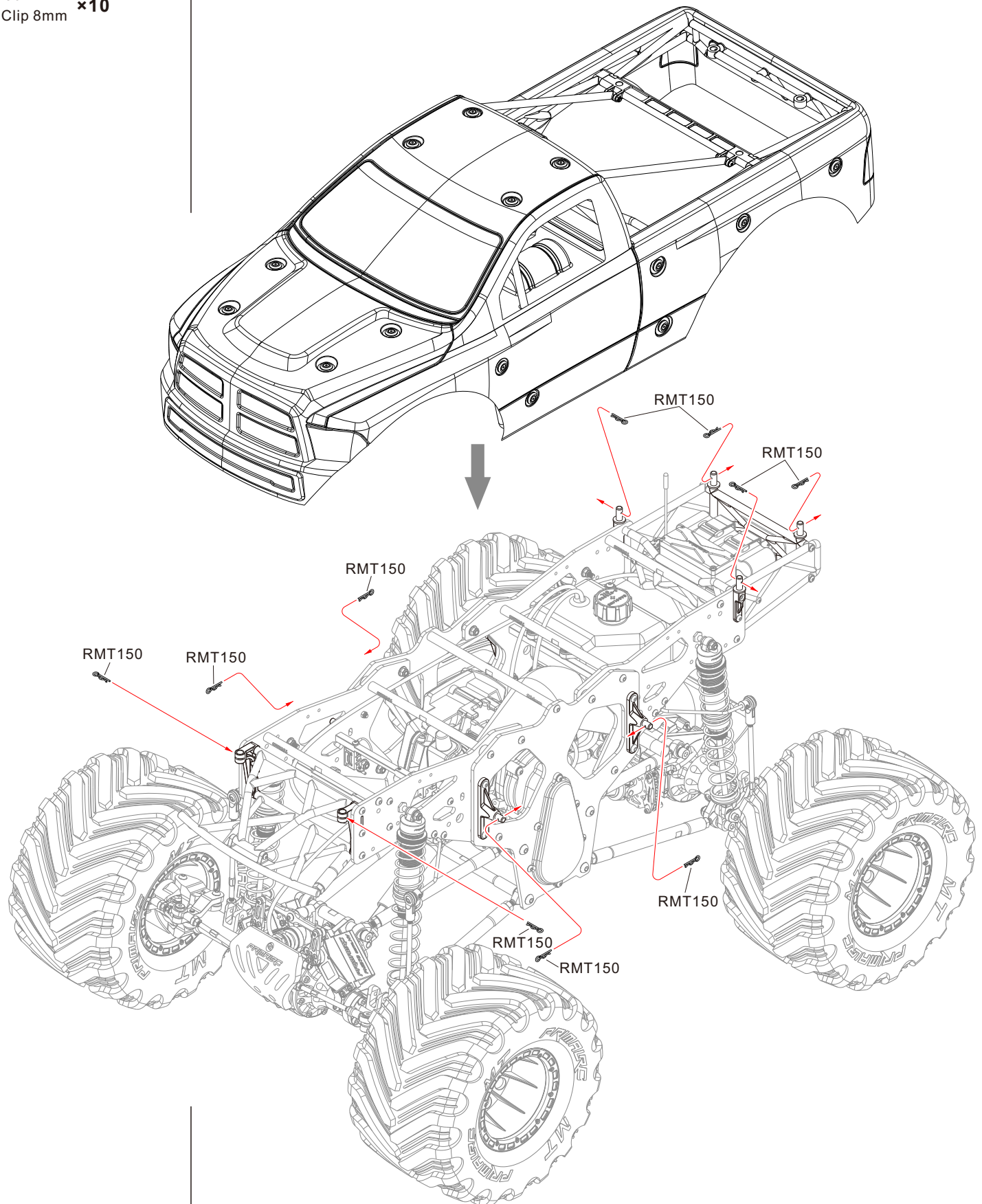
82





RMT150
Body Clip 8mm **×10**

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Parts list

Part No.	Description	Part No.	Description	Part No.	Description
RMT001	Differential case	RMT089	Drive gear 20T	TCS3012	M3×12 Tp. Cap head screw
RMT002	Solid axle set	RMT090	Drive gear 20T/30T	MBS3006	M3×6 Button head screw
RMT003	Front hub carriers	RMT091	Drive gear 23T/27T	MBS3008	M3×8 Button head screw
RMT004	Steering block	RMT092	Drive gear 25T	MBS3012	M3×12 Button head screw
RMT005	Rear hubs	RMT093	Chain	MBS4010	M4×10 Button head screw
RMT006	Link mounts	RMT094	Joint bearing M8	MBS4012	M4×12 Button head screw
RMT007	Front link mounts	RMT095	Brake disk pad	MBS4016	M4×16 Button head screw
RMT008	Rear link mounts	RMT096	Brake arm	MBS4020	M4×20 Button head screw
RMT009	Servo saver set	RMT097	Brake shaft	MBS4025	M4×25 Button head screw
RMT010	Chain box	RMT098	Wirerope screw	MBS4030	M4×30 Button head screw
RMT011	Gear box	RMT099	Brake spring set	MBS4040	M4×40 Button head screw
RMT012	Gear box cover set	RMT100	24mm Wheel nut	MBS5012	M5×12 Button head screw
RMT013	Shift fork	RMT101	Stop collar	MBS5014	M5×14 Button head screw
RMT014	Engine mounts	RMT102	Spacer M3	MBS5016	M5×16 Button head screw
RMT015	Steering servo mounts	RMT103	Servo bushing	MBS5020	M5×20 Button head screw
RMT016	Servo saver mounts	RMT104	Antenna pipe mount	MBS5025	M5×25 Button head screw
RMT017	Steering link	RMT105	Antenna pipe set	MBS5030	M5×30 Button head screw
RMT018	Servo arm set	RMT106	Differential shaft	MBS5035	M5×35 Button head screw
RMT019	Steering link mounts	RMT107	Differential gear set	MBS6010	M6×10 Button head screw
RMT020	Left main frame	RMT108	Inner diff Washer set	MBS6016	M6×16 Button head screw
RMT021	Right main frame	RMT109	Differential completed set	MBS6020	M6×20 Button head screw
RMT022	Frame	RMT110	Joint bearing	MBS6025	M6×25 Button head screw
RMT023	Frame mounts set	RMT111	Reverse joint bearing	MBS6030	M6×30 Button head screw
RMT024	Tank mounts	RMT112	MT tire with inner foam	MBS6035	M6×35 Button head screw
RMT025	Servo link	RMT113	MT wheel hub	MBS6040	M6×40 Button head screw
RMT026	Receiver box mounts	RMT114	MT wheel completed set	MBS6065	M6×65 Button head screw
RMT027	Receiver box set	RMT115	Tank set	MBS8040	M8×40 Button head screw
RMT028	Brake wirerope seat	RMT116	Rubber bushing	MBS8050	M8×50 Button head screw
RMT029	Throttle wirerope seat	RMT117	Top roll cage	MCS2508	M2.5×8 Cap head screw
RMT030	Servo arm 22mm(25T)	RMT118	Front roll cage	MCS3008	M3×8 Cap head screw
RMT031	Servo arm 28mm(15T)	RMT119	Front auxiliary roll cage	MCS3012	M3×12 Cap head screw
RMT032	Throttle servo mounts	RMT120	Left/Right roll cage set	MCS3020	M3×20 Cap head screw
RMT033	Brake wirerope mounts	RMT121	Left/Right auxiliary roll cage	MCS4020	M4×20 Cap head screw
RMT034	Brake disk pad mounts	RMT122	Central roll cage mount	MCS5010	M5×10 Cap head screw
RMT035	Differential housing	RMT123	Rear roll cage	MCS5012	M5×12 Cap head screw
RMT036	Brake disk rotor	RMT124	Painted cockpit mount set	MCS5014	M5×14 Cap head screw
RMT037	Sway bar mount	RMT125	Front roll cage mount set	MCS5016	M5×16 Cap head screw
RMT038	Bumper	RMT126	Left/Right roll cage mount set	MCS5020	M5×20 Cap head screw
RMT039	Servo saver set	RMT127	Rear bumper	MCS5025	M5×25 Cap head screw
RMT040	Shock diaphragm	RMT128	Rear bumper strengthen	MCS5030	M5×30 Cap head screw
RMT041	Steering post	RMT129	Steering ball end set	MCS5040	M5×40 Cap head screw
RMT042	Spacer 16mm	RMT130	Body stator set	MCS6020	M6×20 Cap head screw
RMT043	11mm Ball	RMT131	Body with sticker(Red)	MCS8045	M8×45 Cap head screw
RMT044	King pin bushing	RMT132	Body with sticker(Clear)	MCS8050	M8×50 Cap head screw
RMT045	Upper link mount	RMT133	Painted cockpit(Black)	MFS3005	M3×5 Flat head screw
RMT046	24mm Wheel hex hub	RMT134	Cockpit(Clear)	MFS3010	M3×10 Flat head screw
RMT047	Upper link 180mm	RMT135	Switch mounts	MFS3014	M3×14 Flat head screw
RMT048	Lower link 200mm	RMT136	Shock spring D38×110mm	MFS3016	M3×16 Flat head screw
RMT049	6×45mm Turnbuckle	RMT137	Shock spring D38×150mm	MFS4012	M4×12 Flat head screw
RMT050	6×125mm Turnbuckle	RMT138	Servo spring	MFS4020	M4×20 Flat head screw
RMT051	Diff axle shaft	RMT139	Gear box spring	MFS5016	M5×16 Flat head screw
RMT052	Universal drive shaft set	RMT140	Sway bar set	MFS5025	M5×25 Flat head screw
RMT053	Straight axle shaft	RMT141	Servo wirerope set	MFS6016	M6×16 Flat head screw
RMT054	Drive shaft	RMT142	Brake wirerope set	MFS6020	M6×20 Flat head screw
RMT055	Shaft screw	RMT143	Battery strap 20×200mm	MFS6025	M6×25 Flat head screw
RMT056	Sprocket shaft	RMT144	Nylon braided tube	MES40	E-clip 4mm
RMT057	Clutch bell	RMT145	Differential Pad	MES70	E-clip 7mm
RMT058	Link 198mm	RMT146	Engine 49CC	MNS40	M4 Nylon nut
RMT059	Link 224mm	RMT147	Air filter set	MNS50	M5 Nylon nut
RMT060	Link 190mm	RMT148	Exhaust pipe set	MNNS60	M6 Nut
RMT061	Link 170mm	RMT149	Exhaust gasket	MNRS60	M6 Reverse nut
RMT062	Operate screw	RMT150	Body clip 8mm	MNFS60	M6 Flanged nylon nut
RMT063	Gear Hex mount	RMT151	Shock diaphragm	MNFS80	M8 Flanged nylon nut
RMT064	Gear box synchronizer	PRE001	Fail safe engine breaker	MNNS80	M8 Nut
RMT065	Synchronizer shaft	PRE002	GT5 Transmitter with receiver	MSS3003	M3×3 Set screw
RMT066	Gear box rear shaft	PRE003	GT5 receiver	MSS4004	M4×4 Set screw
RMT067	Gear box front shaft	PRE004	No.712 Servo	MSS5005	M5×5 Set screw
RMT068	Wirerope mounts	PRE005	PM1373 Servo	MPS50	Spring washer M5
RMT069	Shift fork shaft	PRE006	Battery pack for receiver	MPS60	Spring washer M6
RMT070	Spacer M8×2.5mm	PRE007	Engine switch	MWS030810	Washer 3×8×1
RMT071	Spacer M8×12.5mm	PRE008	Harness for servo	MWS040805	Washer 4×8×0.5
RMT072	Shock shaft	ORS14020	O-ring D14×2	MWS051010	Washer 5×10×1
RMT073	Shock body	ORS14035	O-ring D14×3.5	MWS061212	Washer 6×12×1.2
RMT074	External shock parts set	ORS20020	O-ring D20×2	MWS061612	Washer 6×16×1.2
RMT075	Inside shock parts set	ORS22025	O-ring D22×2.5	MWS101510	Washer 10×15×1
RMT076	Shock ball end set	ORS33025	O-ring D33×2.5	MWS202810	Washer 20×28×1
RMT077	Shock parts set	BBS101504	Bearing 10×15×4		
RMT078	Shock stand off	BBS050825	Bearing 5×8×25		
RMT079	Shock completed set	BBS092006	Bearing 9×20×6		
RMT080	Spacer M6	BBS101905	Bearing 10×19×5		
RMT081	11mm Ball	BBS102206	Bearing 10×22×6		
RMT082	6×159mm Turnbuckle	BBS122406	Bearing 12×24×6		
RMT083	Sprocket 10T	BBS152807	Bearing 15×28×7		
RMT084	Sprocket 30T	FBS152807	Flanged bearing 15×28×7		
RMT085	Spiral bevel gear 15T	BBS203207	Bearing 20×32×7		
RMT086	Spiral bevel gear 45T	FBS203207	Flanged bearing 20×32×7		
RMT087	Spiral bevel gear 17T	PINS5024	Pin 5×24mm		
RMT088	Spiral bevel gear 34T	MCDS12	Shaft ring 12mm		

1/5 SCALE RAMINATOR MONSTER TRUCK

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