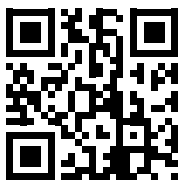




1/12th SCALE 2WD ELECTRIC TRUGGY



Scan this QR code with your smart phone to view the getting started video for this product.



- Entire contents ©2014 Helion RC
- Before using your product, review all documentation and inspect the products carefully. If for some reason you decide it is not what you wanted, then do not continue with unpacking, setup or operation of your product. Your local hobby dealer cannot accept a product for return or exchange after partaking in actions that produce wear and tear.
- Read, understand and follow all instructions and accompanying material carefully before operating or assembling your vehicle to prevent serious damage to your vehicle. Failure to complete these tasks properly or intentional aversion to the content will be considered abuse and/or neglect.
- Product specifications are subject to change without notice. Due to ongoing development, the actual product may vary from images shown.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
- This product is not a toy! (14+) Recommended for ages 14 and up. Adult supervision required for ages under 18 years old. Contains small parts, keep out of reach of children 3 years of age and younger.

LENGTH	420mm (16.53in)
WIDTH	205mm (8.07in)
HEIGHT	143mm (5.62in)
WHEELBASE	250mm (9.84in)
WEIGHT*	907g (2lb)
BATTERY	1,500mAh 2S LIPO, 7.4V
MOTOR	380 SIZE, REVERSE ROTATION
RADIO	2.4GHz 2-CHANNEL
CHARGER	AC 0.5A BALANCING

*APPROXIMATE OUT-OF-THE-BOX WEIGHT

A Quality
FIRELANDS
Product



ROHS



FC



HELION

NOTICE!!!

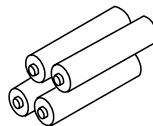
Although your Helion RC product is adjusted and tested at the factory prior to final packaging, some issues may arise during shipping and handling that can be easily resolved at home. For other issues it should be known that hobby grade radio controlled products such as those offered by Helion RC differ from toy grade, in that they are intended to be user-servicable products where the user can disassemble and maintain their own product using factory replacement parts. We try our best to ensure the information you need to introduce you to this form of product maintenance is available to you through this manual. Please see the trouble shooting guide at the back of this manual for assistance in resolving issues, either as they are experienced out of the box or as found after regular use. Assuming your product functions properly as intended out of the box, the best thing you can do is pay close attention to how it feels, sounds and functions. This will help you identify problems later since you will have a reference of how the product is supposed to perform. If you require further information or assistance resolving a possible issue, please consult the warranty card included with your product.

PACKAGE CONTENTS

- | | |
|---------------------------------------|-------------------------------|
| 1. [1] Kontakt 12TR Truggy | 5. [1] Documentation Package |
| 2. [1] Battery | 6. [1] Antenna Tube |
| 3. [1] Radio Transmitter | 7. [1] 4-Way Cross Wrench |
| 4. [1] Wall Charger with Power Supply | 8. [1] LiPo Safe Charging Bag |

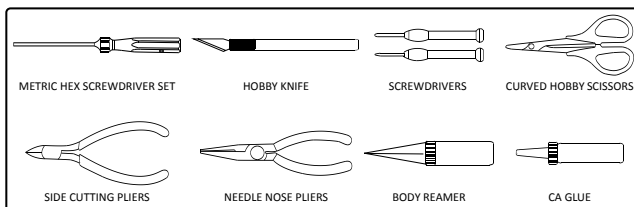
ITEMS NEEDED TO COMPLETE

1. [4] 1.5V AA type alkaline batteries for transmitter
 - a. To help the environment, consider replacing the disposable batteries for this transmitter and for other household electronic items with rechargeable batteries. Visit your local hobby dealer for hobby grade chargers and batteries



RECOMMENDED TOOLS (NOT INCLUDED)

Please use caution and follow the manufacturer's recommended operating instructions for these items and always wear eye protection.



GETTING STARTED...

1. Carefully remove the box contents using side cutting pliers to cut the tie straps.
2. Remove body and the battery from LiPo Safe Charging sack to inspect it prior to charging.
 - a. Read charging instructions and understand all warnings and cautions before proceeding. ***This product is not a toy and should not be charged by anyone except an adult.***
 - b. Return to this guide in the presence of the charging battery, remembering never to leave the battery unattended while charging.
3. Install antenna tube by sliding antenna into tube and inserting tube into mount on 2-in-1 module. Be careful not to pinch the antenna during installation. NOTE: Do NOT fold end of antenna over end of tube, this will reduce the range of the radio system and can cause interference when operating your vehicle.
4. Install the [4] AA type alkaline batteries into the transmitter.
5. Remove the small body clip and battery door latch pin from the vehicle to open the battery

...GETTING STARTED CONTINUED

compartment.

6. Install the fully charged battery into the vehicle, be sure the On/Off switch is in the OFF position first, then ensure the motor is plugged into the ESC. Close and latch the battery door.
7. Ensure the switch is in the OFF position and connect the battery to the ESC.
8. Read and understand transmitter cautions and setting instructions before use.
 - a. Confirm settings for steering and throttle trim.
9. Turn your equipment ON (radio first!) and enjoy!

CHARGING THE BATTERY

- Always charge in a LiPo safe charging bag or container.
- Never use a non LiPo specific charger to charge the battery, doing so can cause catastrophic failure which could lead to fire.
- Never charge your LiPo batteries without utilizing the balance feature of your LiPo charger.
- Never leave the battery unattended while charging.
- Never operate the charger without adult supervision.
- Never charge a warm battery, always allow the battery to cool to room temperature before charging.
- Never drop the charger or battery.
- Never attempt to charge a damaged battery.
- Inspect the battery and charger before use. Never charge a battery or charger if the wire or connector has been damaged or if the battery has experienced a short.
- Incorrect use of the battery, connections, or charging equipment can cause personal injury or property damage
- Never allow batteries or charger to come in contact with moisture at any time
- Stop charging immediately if the battery or charger becomes hot or changes form (swells) during use

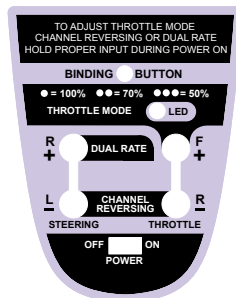
NOTE: Only use chargers designed for use with LiPo batteries for the RC industry, using the supplied connector. Use of other (non-RC specific) chargers or connectors can permanently damage the battery and/or connected equipment. Genuine replacement batteries are available at your local hobby dealer.

1. Plug the power supply into the charger and into a properly grounded standard AC wall plug.
2. Close the battery into the LiPo bag leaving only the charge leads exposed. Be sure to properly secure the hook and loop closure material prior to connecting the battery to the charger.
3. Plug the battery into the charger and place the battery on/in a non-flammable surface/container and away from any flammable objects.
4. A fully discharged battery should charge in approximately 3 hours, however your first charge should take around 1 hour
 - a. **Caution: Periodically monitor the temperature of the battery while charging, if the temperature exceeds 115°F (45°C), disconnect the battery from the charger and allow it to cool before reconnecting**
5. Unplug the battery from the charger when the battery is fully charged, indicated by the red charge light turning Off.
 - a. **NOTE: Using a LiPo balance charger with a higher charge rate is recommended and will provide you with a faster and better charging experience. We recommend the Radiant RC chargers which were developed specifically with your product in mind.**
 - b. **Warning: Recommended charge current is 1.5A however, never charge the included battery at a charge current exceeding 2A.**
6. Remove charger from wall plug.

THE HRSS-2.1 2.4GHz RADIO SYSTEM

Transmitter Features:

1. Steering wheel: controls left/right motion (designed to be operated with right hand)
2. Throttle trigger: controls forward/reverse motion (designed to be operated with left index finger)
3. Control panel cover: Covers control panel housing radio setting controls
4. ON/OFF Switch: Turns the power ON/OFF for the transmitter
5. Indicator lights (G. LED): Multifunction Green LED
 - a. Solid Green: Adequate battery voltage for proper operation
 - b. Flashing Green: Low battery voltage warning, batteries should be replaced/recharged before continued use
6. Steering Trim (ST. TRIM): Controls the "hands-off" left/right direction of the vehicle
7. Throttle Trim (TH. TRIM): Adjusts the motor speed to STOP when trigger is in "hands-off" (neutral) position



Batteries:

- Remove the lower door from the transmitter to access the battery compartment.
- Install [4] AA type batteries into the compartment.
 - › Pay close attention to battery polarity (+/-) indicators during installation.
- Never mix brands or old/new batteries.
- Always remove dead batteries from the transmitter.
- If using rechargeable batteries, be sure to follow the manufacturer's care and use instructions.
- Rechargeable batteries must be removed from transmitter before charging.

Transmitter Standard operation:

- Turning the transmitter wheel to the left from center makes the wheels on the vehicle turn LEFT
- Turning the transmitter wheel to the right from center makes the wheels on the vehicle turn RIGHT
- Pulling the transmitter trigger back towards the handle will make the vehicle accelerate forward
- Pushing the transmitter trigger forward away from the handle will have the following affects depending on the location of the trigger prior to pushing it forward
 - › From a stop at neutral: the vehicle will travel in reverse
 - › From pulled back: the vehicle will apply brakes to slow the speed
 - » A second push forward of the trigger will apply reverse throttle
 - » **WARNING: Causing the vehicle to make quick transitions from forward/reverse motion to the opposite direction using the throttle control can cause damage to your vehicle and will void the warranty**

Using the LVC function with LiPo Batteries:

The HRSS-2.1 modular 2-in-1 ESC is equipped with a Low Voltage Cut-Off (LVC) for use with LiPo batteries. The LVC is used to prevent the over-discharge of LiPo batteries which can increase the risk of fire and damage the battery. This LVC mode cannot be disabled and therefore your vehicle can only perform properly when used with LiPo batteries.

- When the LVC function of your ERS unit is active, the LED will flash slowly, indicating it is time to stop and charge your battery. Always remember to allow your battery to cool before recharging. Also remember to allow the motor to cool down completely before running again.
 - › **WARNING! THE MOTOR WILL BE HOT AFTER RUNNING, USE CAUTION WHEN TESTING THE MOTOR TEMPERATURE. DO NOT TOUCH THE MOTOR DIRECTLY, CAREFULLY TOUCH THE PLASTIC GUARD WHICH COVERS THE MOTOR TO CHECK THE TEMPERATURE.**

USING YOUR HRSS-2.1 RADIO SYSTEM FOR THE FIRST TIME

Binding the Radio System:

The process of allowing communication to occur between a 2.4GHz transmitter and receiver is called "binding" (sometimes referred to as "matching" or "pairing"). Your vehicle and transmitter should be bound from the factory, however if for some reason it is not, or if you have had to replace either your transmitter or ERS Unit, simply follow the steps below to re-bind the transmitter and ERS unit.

1. On your vehicle, locate the bind button near the On/Off switch.
2. Press the bind button and turn the vehicle On.
3. On your transmitter, locate the bind button on the control panel.
4. Press the bind button and turn the transmitter On.
5. The LED's on both the transmitter and ERS unit will flash quickly at first then the LED On the ERS unit will change to a slow blink. This indicates the binding process is complete.
6. Power cycle (turn Off, then On again) the transmitter and vehicle and confirm proper function.

Setting the Trims:

1. Turn the transmitter ON and ensure the LED is lit SOLID indicating the batteries are supplying adequate voltage for proper operation.
2. Ensure your vehicle battery is fully charged, installed and connected, then turn ON your vehicle.
3. Setting the throttle trim
 - a. If the wheels spin in a forward direction when the trigger is in the neutral position, turn down the trim until the motor stops by pressing the (-) button.
 - b. If the wheels spin in a reverse direction when the trigger is in the neutral position, turn up the trim until the motor stops by pressing the (+) button.
 - c. There will be a "dead band" area where the trim can be adjusted a slight amount in either direction and the wheels will not begin to move. It is ideal to have the trim set in the middle of this "dead band".
 - d. The LED will flash when you have reached the center point of the trim setting range on the transmitter.
4. Setting the steering trim
 - a. With your vehicle and transmitter turned on (and properly responding to transmitter inputs), set the vehicle down on the ground and slowly accelerate in a direction directly away from you. If the vehicle veers slightly either to the left or right, stop the vehicle and adjust the Steering Trim in the opposite direction of the veer in small increments, one button press at a time.
 - i. Press the L (-) button to increase LEFT trim.
 - ii. Press the R (+) button to increase RIGHT trim.
 - iii. The LED will flash when you have reached the center point of the trim setting range on the transmitter.
 - b. Reset the vehicle and re-test; adjust the trim as needed until the vehicle travels in a straight line while the transmitter wheel remains at center location ("hands-off").

ADVANCED FEATURES

Your HRSS-2.1 radio system includes some new advanced features that go beyond the basics to improve your experience with your vehicle now and through future upgrades.

Beginner Modes: Your transmitter is equipped with 2 beginner modes optimized to help users get used to the controls of their vehicles. When activated, these beginner modes reduce the throttle output of the transmitter to reduce the overall speed of the vehicle, while leaving all other functions fully operational. Follow the steps below to select the desired Beginner Mode.

THE HRSS-2.1 2.4GHz RADIO SYSTEM

1. Hold down the Throttle (+) button and turn on the transmitter to enter the Selection Mode.
2. Press the Throttle (+) or (-) buttons to select the desired mode by counting the LED flashes as described below.
 - a. 50% Power (Green Power LED will flash 3 times when in this mode):
 - i. Ideal for first time drivers when using brushed type motors (the standard that comes with your vehicle).
 - ii. Also ideal for new drivers who are trying out a brushless type motors. This brings the speed down to a manageable level until you are comfortable.
 - b. 70% Power (Green Power LED will flash 2 times when in this mode):
 - i. Ideal for new drivers with brushed type motors.
 - ii. Also ideal for drivers who have mastered the brushed motor at full power and have just put in a brushless system.
 - c. 100% Power (Green Power LED will be solid when in this mode):
 - i. Although its the default settings, its meant to be used once you are comfortable with the other settings and the handling of your vehicle.
3. When the desired mode is selected, simply turn the transmitter Off to save your selection. Turn the transmitter back On to use this mode.
4. The transmitter will remember this setting the next time you use it, so be sure to check for a flashing LED light if you don't recall which Mode is selected. There is a shortcut guide on the control panel of the transmitter for your reference.

Steering Dual Rate (D/R): Dual rate adjusts how far the wheels turn in each direction when you turn the wheel on the transmitter. If you find your vehicle turns too much, you may want to try reducing the D/R setting. This may also be useful if you install and aftermarket servo and brushless system since each brand of servo has its own specifications which may include turning more than the stock included servo. To adjust the D/R setting follow the steps below.

1. Hold down the Steering (+) button and turn on the transmitter to enter the D/R setting.
2. Use the Steering (+) or (-) buttons to increase or decrease the D/R setting.

Channel Reversing: Some aftermarket servos or ESC's may require you to reverse the channel setting on the transmitter for proper function. For example: if you install an aftermarket servo and notice that when you turn the wheel to the left, the car goes right, this means the Steering channel needs to be Reversed. Follow the steps below to Reverse the channels on your transmitter.

1. Steering Channel Reverse (Channel 1)
 - a. Hold down the Steering (-) button and turn on the transmitter to enter the Channel 1 Reversing Mode.
 - b. Press the (+) or (-) button to set switch the channel mode.
 - c. Turn off the transmitter or save the setting.
2. Throttle Channel Reverse (Channel 2)
 - a. Hold down the Throttle (-) button and turn on the transmitter to enter the Channel 2 Reversing Mode.
 - b. Press the (+) or (-) button to set switch the channel mode.
 - c. Turn off the transmitter or save the setting.

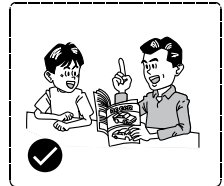
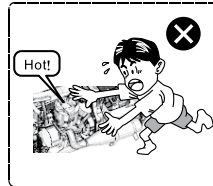
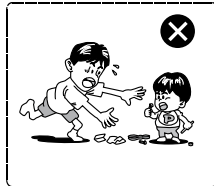
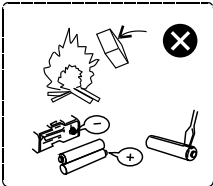
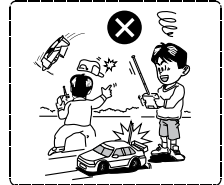
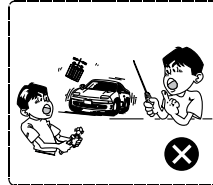
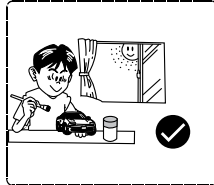
Factory Reset: If you have made changes on your transmitter and are experiencing problems achieving normal operation of your vehicle, it may be necessary to restore your transmitter to the factory default settings. To reset your transmitter follow the steps below.

1. Turn on your transmitter.
2. Hold down both the Steering (+) and Throttle (+) buttons at the same time for 5 seconds.
3. Release the buttons once the LED starts to blink.
4. After the LED has blinked 10 times, the transmitter will be restored to the factory default settings.

SAFETY TIPS

Although great for first time users, Helion RC products are indeed advanced radio controlled vehicles with sensitive electronics and moving parts capable of causing injury if used improperly. Always use caution and common sense as failure to operate your Helion RC product in a safe and responsible manner can result in damage to the product or other properties. Therefore this product is not intended for use or maintenance by children without direct adult supervision. Helion RC and your hobby dealer shall not be liable for any loss or damages, whether direct, indirect, special, incidental, or consequential, arising from the use, misuse, or abuse of this product or any product required to operate or maintain it

- For your safety, do not operate your vehicle in rain, electrical, or thunder storms.
- The vehicle should never be turned ON without the transmitter being turned ON.
- Never operate your vehicle when with low transmitter batteries.
 - › Indicated by flashing LED on the transmitter
- Always check for proper radio system operation (steering and throttle) prior to letting go of the vehicle. If the vehicle does not respond properly to transmitter input, turn the vehicle OFF and inspect all connections and operating environment. Also see the Troubleshooting guide in this manual.
- For the best experience and performance, operate in a dry (no puddles or mud), open environment away from traffic, and cars (never run into the street for any reason).
- Always turn off both transmitter and ESC and disconnect the battery from the ESC after use.
- Exercise extreme caution when touching the motor immediately after running your vehicle, it may be HOT and may cause a burn.
- Always allow the motor in your vehicle to cool before using again



GENERAL CARE AND MAINTENANCE...

General Care:

- Always use clean, dry cloth or soft bristle brush to clean your equipment
- Never use chemical cleansers to avoid damage to the sensitive electronics and plastics

Maintenance:

We want you to enjoy your product to its fullest potential. For this to happen it is important to keep your product clean and properly maintained. Lack of cleaning and maintenance can cause component failure. For best and continued performance from your product it is recommended to briefly inspect your product for damage every few runs. Typically, a good time to do this is when changing the battery or while it is charging. If a problem is discovered, stop use immediately and seek repairs. Continued use of failed components can cause more unnecessary damage to your product. Always

GENERAL CARE AND MAINTENANCE

remember to use genuine replacement parts from your local hobby dealer. Below is a list of items for inspection. Inspection should not be limited to this list; if you notice any problem, listed or not, it is recommended to give it proper attention

1. Electronics: The electronics included in your vehicle are not designed to power a submarine, however they do perform well in all-weather conditions and light submersion for short periods of time. This is typically found to happen when running through deep puddles where excess water can fill the chassis area and submerge the electronics. Try to keep the electronics above water whenever possible.
 - a. After using your vehicle in wet conditions, it is imperative that you clean and dry all connectors to prevent corrosion. We recommend using electrical contact cleaner to displace the water on the connectors.
 - b. Antenna: To achieve full operating range with your radio system, it is critical that the receiver antenna be installed properly and undamaged
 - i. Ensure the antenna is installed in a vertical orientation, laying the antenna down will reduce range and produce unexpected results during operation.
 - ii. Inspect any exposed antenna for cuts or abrasions
 - iii. Ensure there are no kinks in the antenna or antenna tube
 - iv. Never fold the end of the antenna over the tube, this will reduce the range and damage the antenna
2. Gears: Periodically remove the gear box and disassemble the halves to expose the internal gears. There should be no debris in the gear compartment, just grease.
 - a. Proper gear mesh setting is crucial for proper operation and life of gears in your product. It is important to have the pinion gear (attached to motor) as close to the spur gear (attached to drive shaft) as possible yet while providing a minimal amount of backlash. Backlash is the rotation one gear has to make before contacting the other. Having the gear mesh set too tight will cause excess load on the electrical components and may cause premature failure. Having gear mesh set too loose will cause excess wear and possible skipping of teeth during operation thus causing excess wear and premature failure
 - b. Fixed Gear Mesh Settings were designed into your vehicle to accommodate both a 12 and 14T pinion gear. These settings have the proper backlash pre-configured.
 - c. When gears become loud, this typically means it is time to replace them. The gear that sees the most wear and tear is the top shaft compound gear.
3. Shocks: Periodically inspect the shocks for smooth/free motion, dirt residue build up around the shaft and inside the shock body will cause the shocks to bind up and not operate properly.
 - a. Be sure to clean the shocks regularly with a clean and dry soft bristle brush and/or rag.
 - b. Adding a few drops of oil to the shock shaft can help keep the shocks operating smooth, however this oil can also attract unwanted dirt so keep an eye on it and keep them clean when possible.
4. Tires and wheels:
 - a. Inspect the tires to ensure they are properly glued to the wheels. The tires on your vehicle come pre-glued from the factory; however after running your vehicle it is possible for the glue to come loose in some areas.
 - i. To reattach the tire to the wheel, use hobby grade Cyanoacrylate (CA) glue and apply small amounts (one drop at a time) between the tire and wheel. Allow the glue to fully dry before operating your vehicle.

Follow manufacturer's warnings and directions when using CA glue. It is always recommended to wear eye protection when maintaining your vehicle.

- ii. When reinstalling tires, use caution when tightening the nuts that secure the wheels to the vehicle. Ensure they rotate freely but don't wobble excessively. Over tightening

GENERAL CARE AND MAINTENANCE

the wheels will cause excess strain on the electrical and mechanical components of your vehicle. Operating your vehicle under these conditions will void your warranty.

- iii. **Tire wear:** Consequently running your vehicle will cause the tires to eventually wear out. Be sure to obtain genuine replacement parts from your local hobby dealer.

5. **General wear and tear:**

- Use of your vehicle will cause general wear and tear which is not covered under warranty yet may necessitate replacement of components. Continued operation of your product with use of worn components may cause continued damage to other components
- Be sure to regularly inspect your vehicle and accessories for excess wear and damaged components. If any are found, replace them immediately.

Storage:

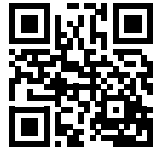
- Always store all equipment in a cool dry place when not in use.
- Always disconnect the batteries before storage.
- Never store the battery, vehicle or transmitter in direct sunlight for extended periods of time
- Never store the transmitter with batteries installed for extended periods of time. Doing so may allow the batteries to leak and cause permanent damage to the transmitter.

Disposal:

Your product is equipped with LiPo batteries which are considered electronic waste and should never be discarded in standard garbage containers. Please visit your local hobby dealer and use the FREE battery disposal center for proper disposal/recycling.

TROUBLESHOOTING PROBLEMS

Before contacting customer support, recall that this is a hobby grade product intended to be user serviceable. Please take the time to fully inspect your product for any obvious causes to the issues you are experiencing. Below are some of the most common issues experienced. Scan the QR code to the right with your smart phone for quick access to the product support page on our website.

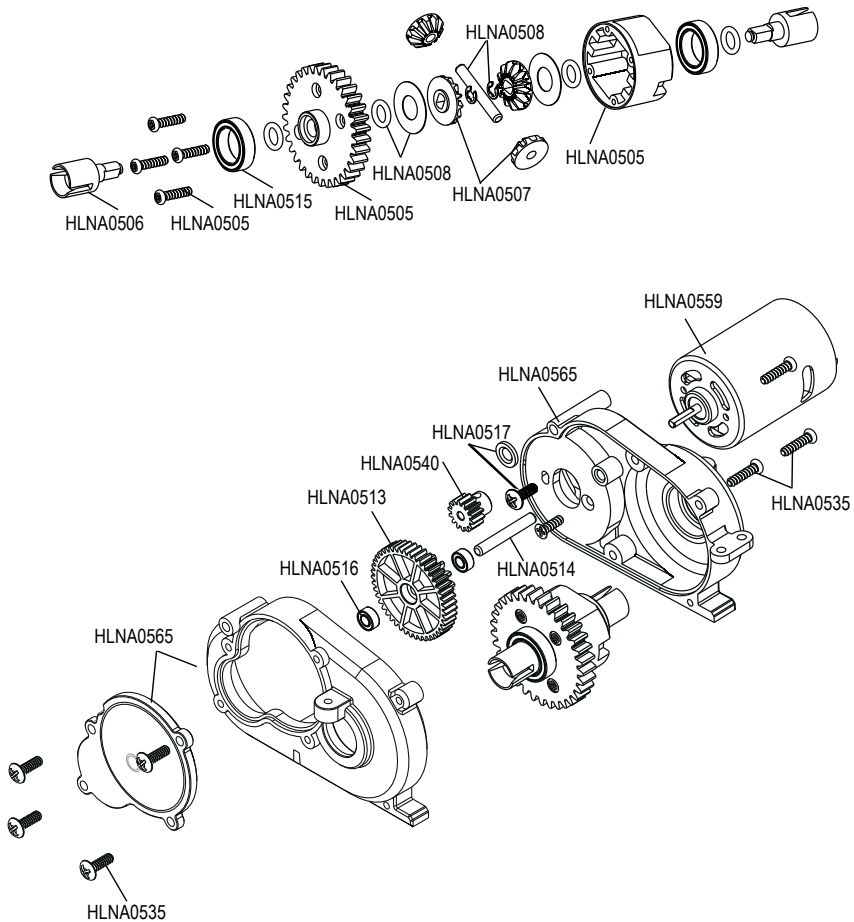


1. Dead transmitter or vehicle batteries will cause the product to malfunction and not work properly. As with TV remote controls in your home, if the batteries are dead, they don't work. Start power related troubleshooting with fresh batteries in the transmitter and recharged batteries in the vehicle.
2. Connections between the Battery, ESC, and Motor are critical to the performance of the product. Running in various debris may cause foreign objects to snag on wires, causing connections to come loose. It is a good idea to unplug and reconnect motor and battery connections when beginning troubleshooting.
3. Drivetrain issues can mask themselves as power related. Fully inspect the wheels, driveshafts, and motor for foreign objects that may have become tangled or wrapped around the spinning parts of the drivetrain. Small objects like fishing line for example, can wrap around a drive shaft, overheat and melt due to the friction and cause the entire drivetrain to lock up. Although a big problem, it can be difficult to see when inspecting. Always remove the wheels from your vehicle when starting drivetrain related issues.
4. When running in dirt and areas with a lot of debris, the motor can be exposed to foreign contaminants such as grass, twigs, or other objects which can get lodged in the cooling holes of the motor, causing the motor to lock up and stop functioning. Inspect the holes of your motor for foreign objects and remove them if present.
5. Healthy gears are crucial to a properly functioning vehicle. If you hear your vehicle making very loud noises, you should immediately stop and check the gears for foreign debris. Even a small pebble can get lodged into the teeth of the pinion gear, which would practically destroy the spur gear in a very short period of time.

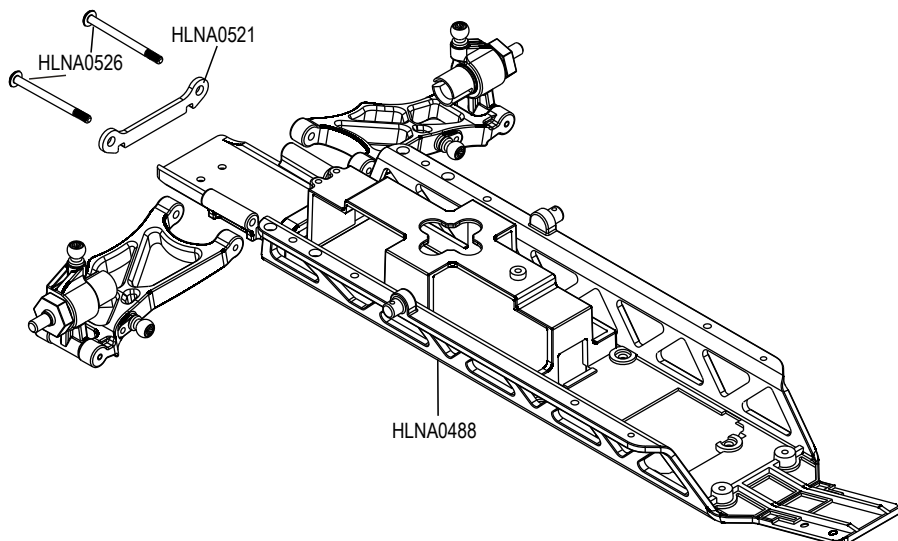
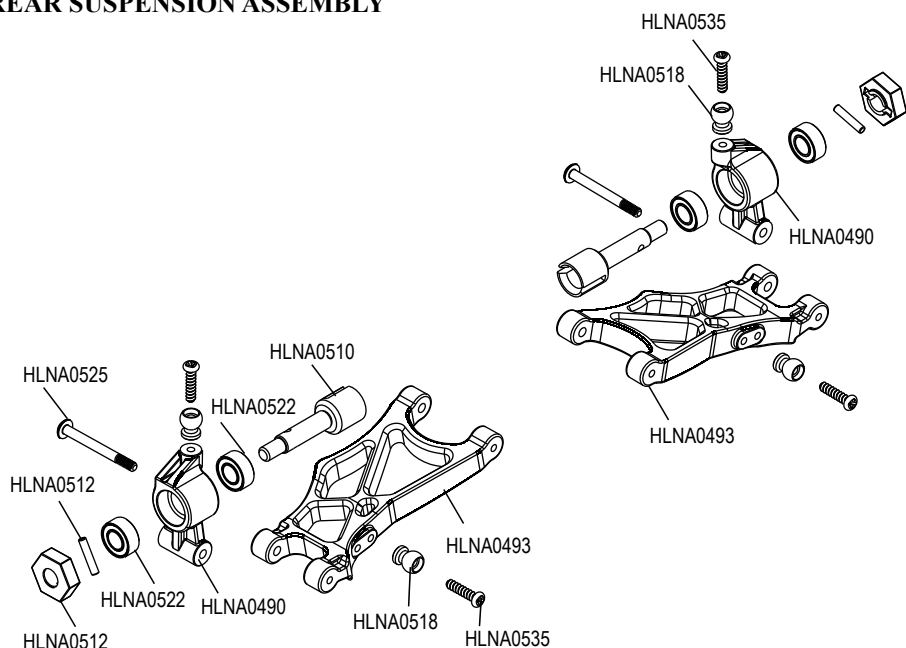
TROUBLESHOOTING GUIDE

Problem / Symptom	Possible Cause	Possible Solution
Vehicle will not turn on	Battery voltage too low	Charge battery
	Battery not connected	Re/connect battery
	Damaged battery	Replace battery
Transmitter will not turn on	Battery voltage too low	Charge or change batteries
	Battery/ies installed improperly	Correct installation
Short radio range (Vehicle stops responding to transmitter at short distances)	Damaged or improperly installed receiver antenna	Check receiver antenna for damage. Ensure antenna is properly installed in tube and mount, extending perpendicular from the ground
	Transmitter battery voltage too low	Replace batteries
Spur gears stripping	Gear mesh too loose	Tighten gear mesh for proper backlash
	Bearings worn out and need replacing	Check for loose fasteners on spur gear cover and motor mount
Steering not responding as expected	Trim not set properly	Adjust steering trim
	Screws too tight on steering components	Adjust screws to allow for free motion
Vehicle not responding as expected to transmitter	Trims not set properly	Adjust throttle and/or steering trim
	Radio system lost bind	Re-bind radio system
	Bad electrical connections	Check motor and battery plugs to ensure they are fully connected.
Vehicle top speed and acceleration is slow	Battery voltage too low	Charge the battery.
	Drivetrain has too much friction	Check and slightly loosen wheel nuts.
	Pinion gear is loose	Check and tighten set screw on motor pinion .
	Drive pin missing or stripped	Check for missing wheel pins (behind wheel hexes), or dogbone pins.
	Beginner Mode is active	Check to ensure the Green Poewr LED is solid. If it is flashing, one of the Beginner Modes is active.
Shocks sticking in up position.	Dirt and dust has gotten into shock body	Clean out shock bodies and clean off shafts, apply small amount (1-2 drops to each shaft).
Battery does not hold charge	Battery has deteriorated and needs replacement	Replace battery with compatible type or upgrade.
Vehicle only has forward or reverse throttle but not both	The TH trim is not centered	Center the TH trim and power-cycle the transmitter and vehicle.

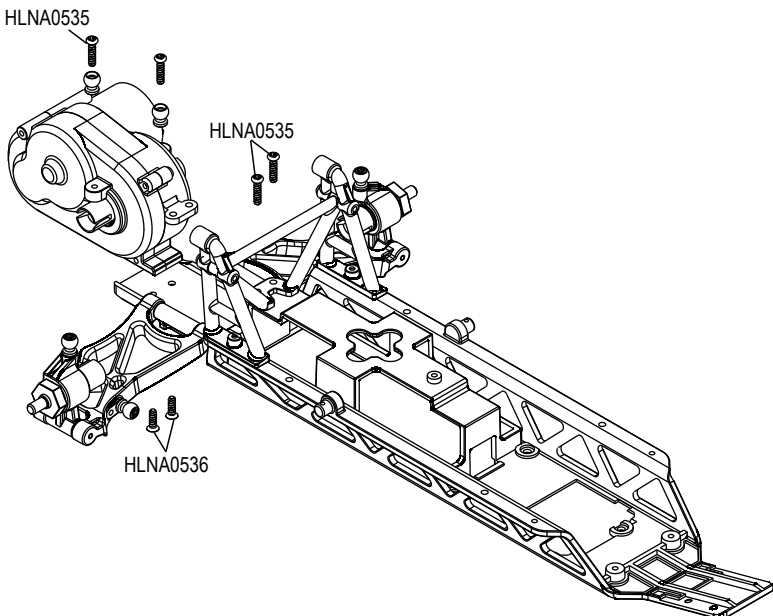
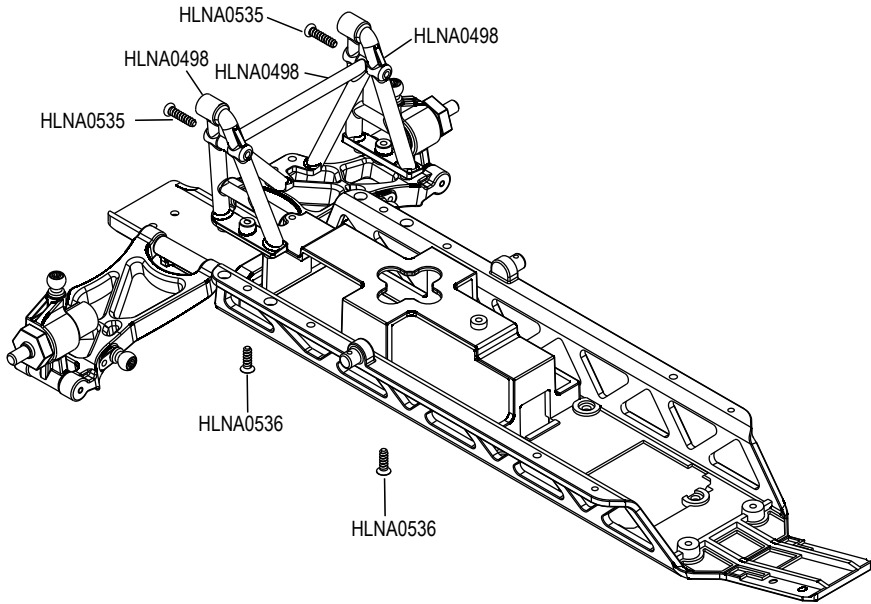
GEARBOX ASSEMBLY



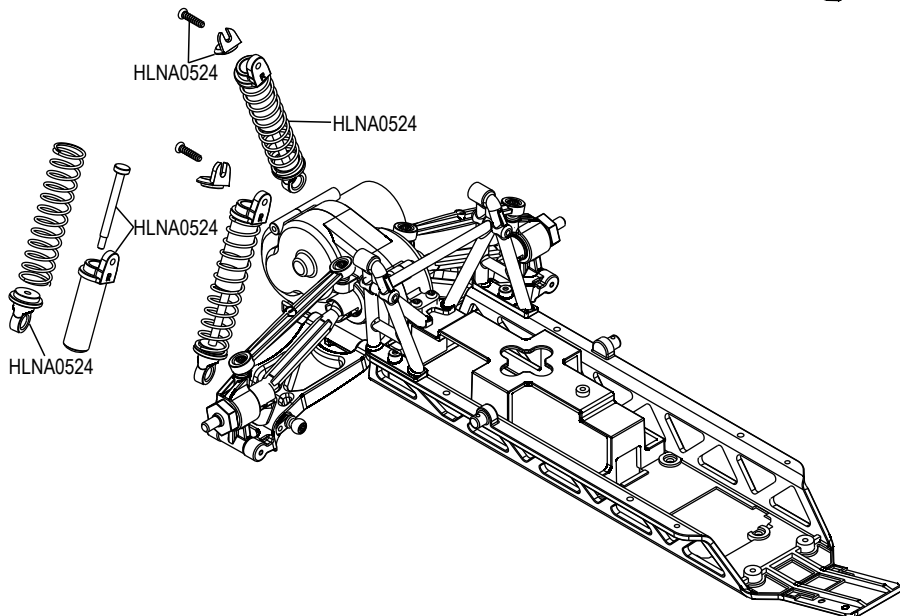
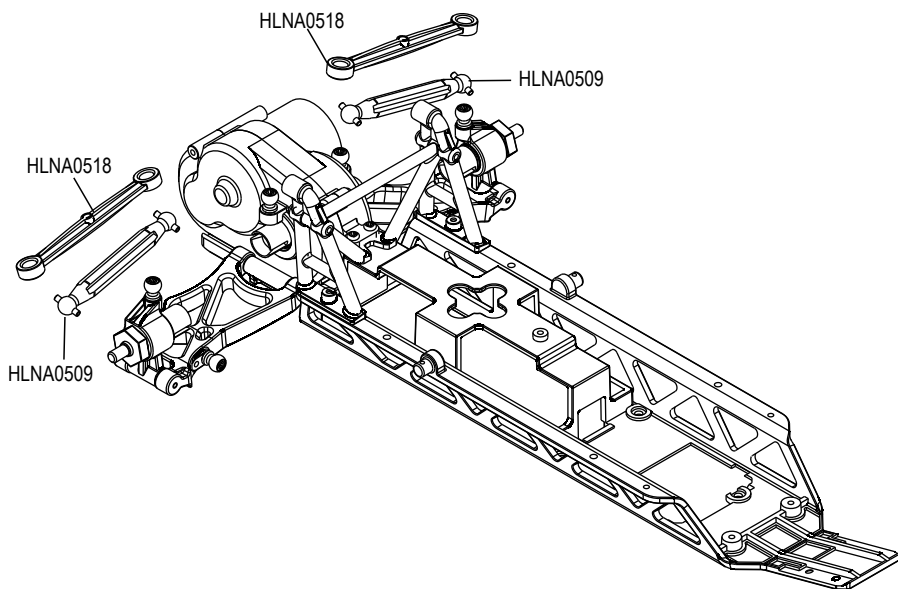
REAR SUSPENSION ASSEMBLY



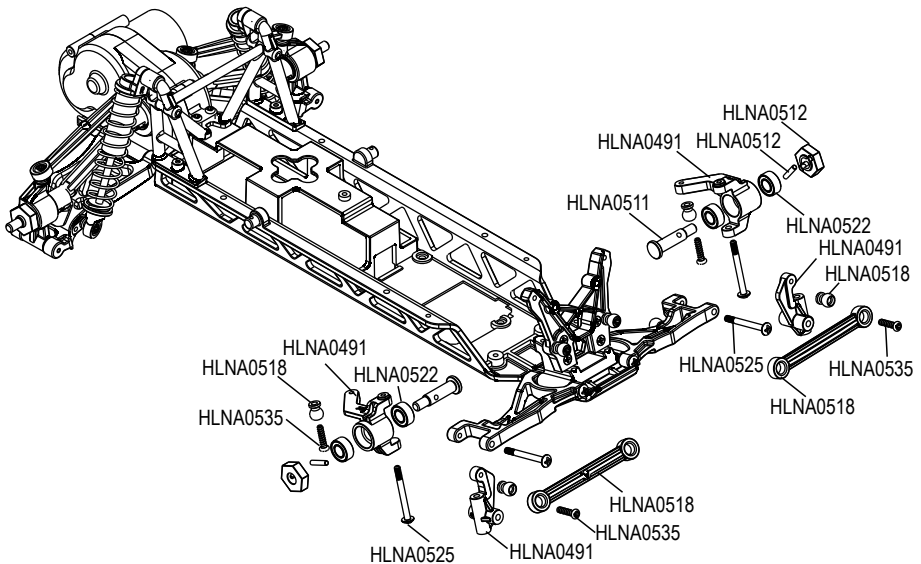
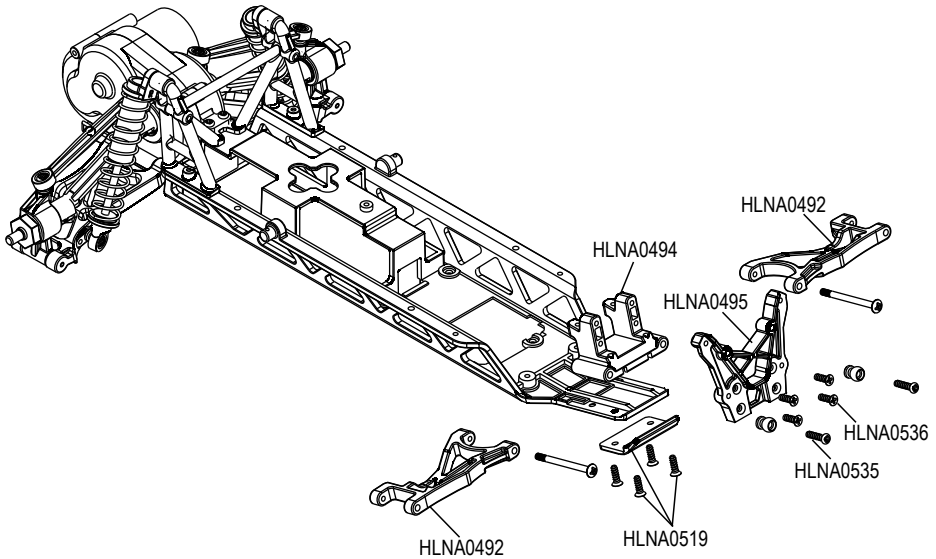
REAR END ASSEMBLY



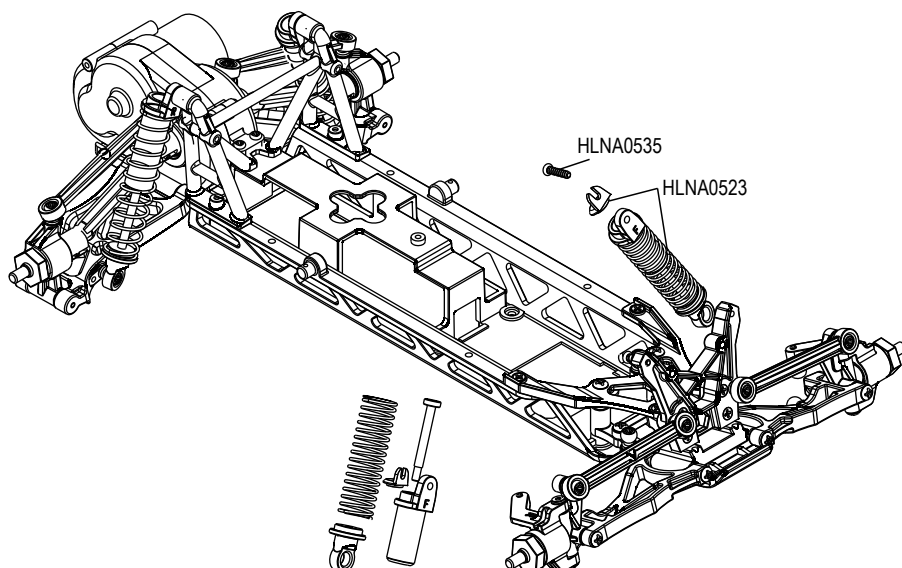
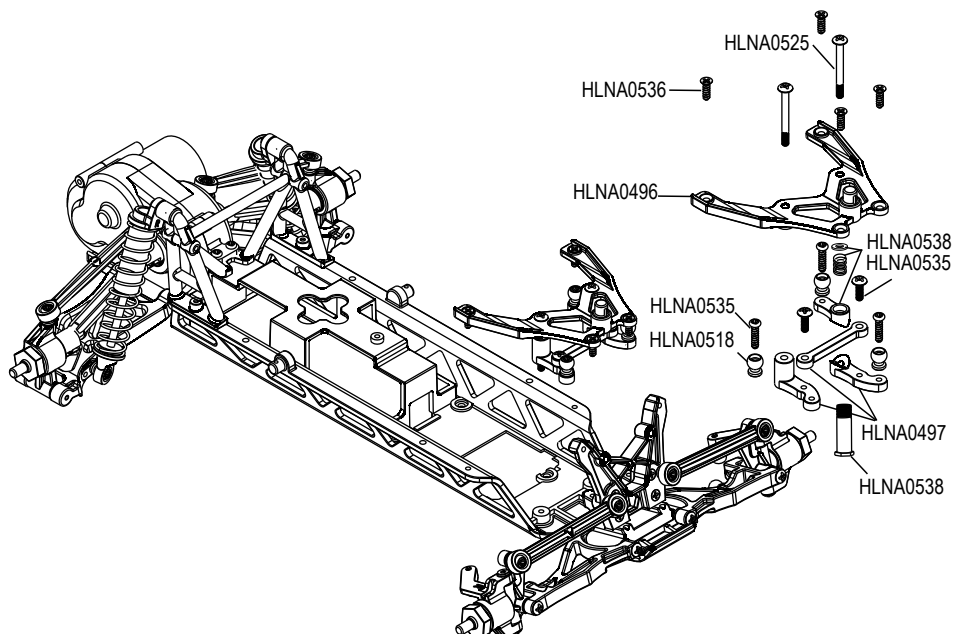
REAR LINKS AND SHOCKS



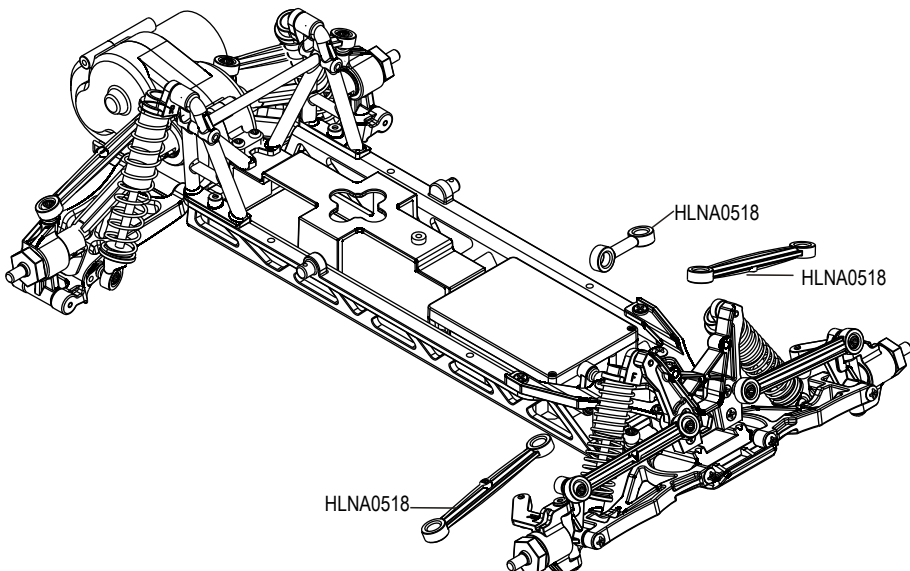
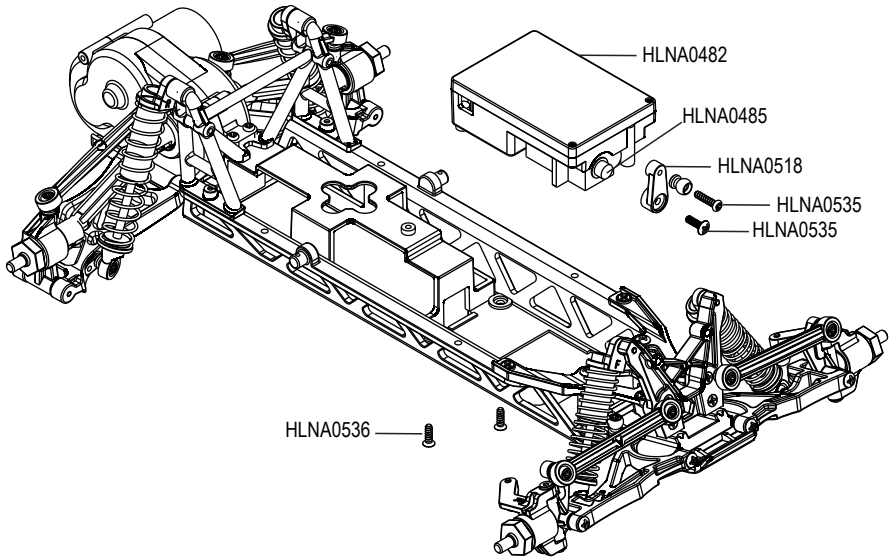
FRONT SUSPENSION ASSEMBLY

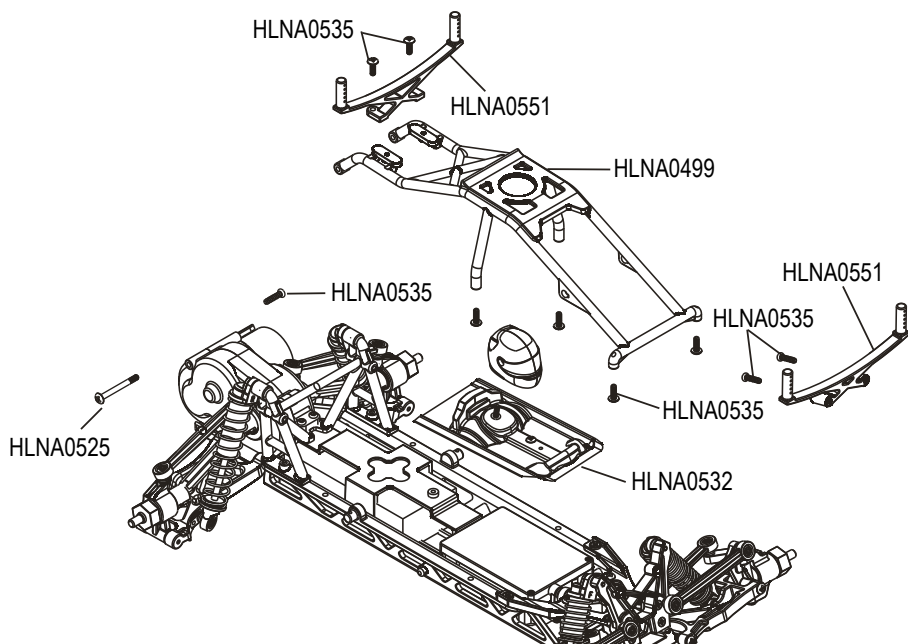


STEERING ASSEMBLY

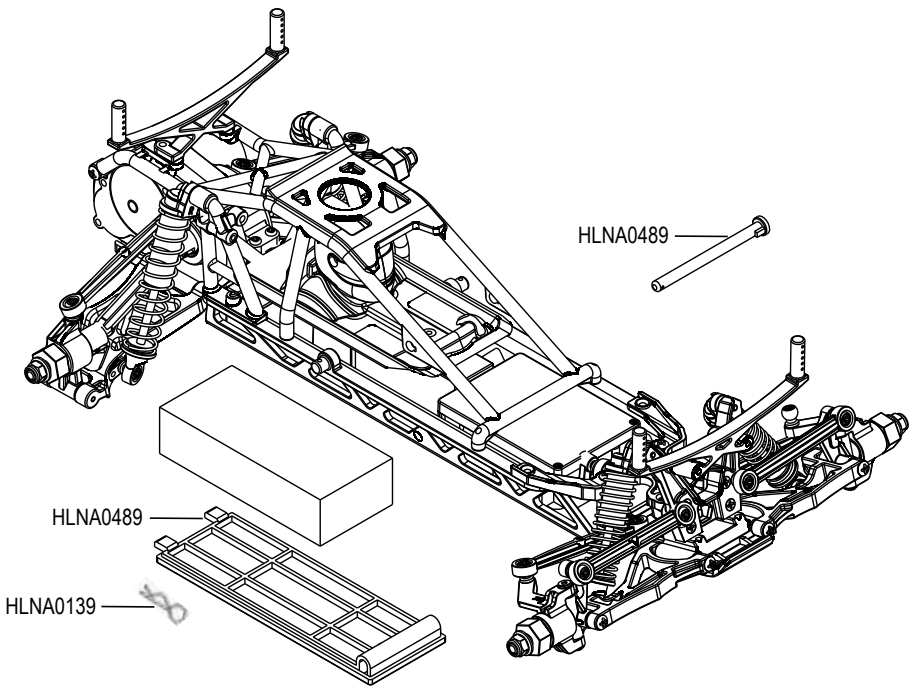


ERS UNIT INSTALLATION

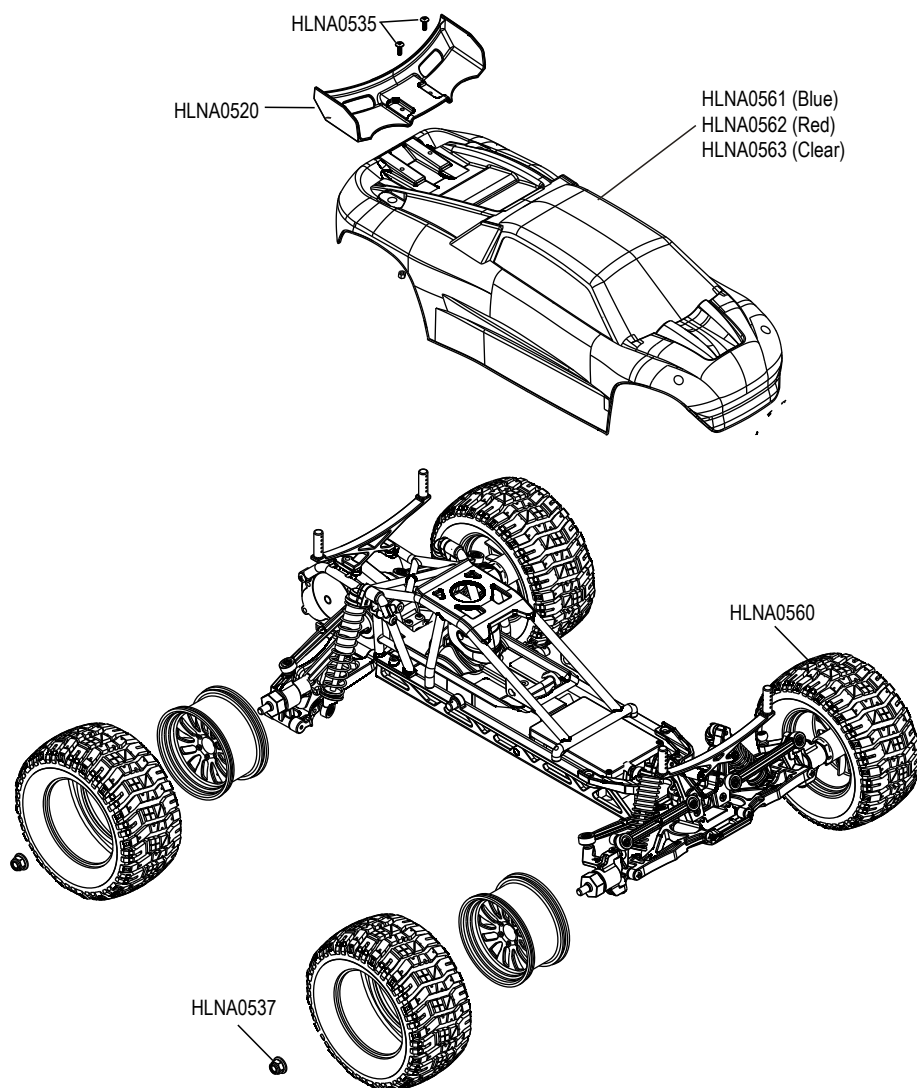


ROLL CAGE ASSEMBLY

BATTERY INSTALL



WHEELS AND BODY



REPLACEMENT PARTS LIST...

HLNA0139	Body Clips, Small
HLNA0476	Power Supply, 9V 500mAh, US
HLNA0477	Power Supply, 9V 500mAh, UK
HLNA0478	Power Supply, 9V 500mAh, EU
HLNA0479	Power Supply, 9V 500mAh, AU
HLNA0480	Balance Charger, 2s LiPo, 7.4V
HLNA0481	Battery, 2s LiPo, 1,500mAh, B-XH, HCT
HLNA0482	Helion 2-1 Modular ERS, HCT (12KT)
HLNA0483	Motor, Brushed, 380 Size, RR
HLNA0484	HRSS-2 2Ch 2.4GHz Transmitter
HLNA0485	Servo, 5-Wire, Modular ERS (12KT)
HLNA0488	Main Chassis (12KT)
HLNA0489	Battery Door and Pin (12KT)
HLNA0490	Rear Hub Carriers (12KT)
HLNA0491	Spindles and Carriers (12KT)
HLNA0492	Front Suspension Arms (12KT)
HLNA0493	Rear Suspension Arms (12KT)
HLNA0494	Front Bulkhead (12KT)
HLNA0495	Front Shock Tower (12KT)
HLNA0496	Front Top Plate (12KT)
HLNA0497	Steering Set (12KT)
HLNA0498	Rear Shock Tower (12KT)
HLNA0499	Roll Cage (12KT)
HLNA0505	Differential Housing (12KT)
HLNA0506	Differential Outdrives (12KT)
HLNA0507	Differential Gears (12KT)
HLNA0508	Differential Hardware (12KT)
HLNA0509	Dogbones, Molded (12KT)
HLNA0510	Rear Axle Cups (12KT)
HLNA0511	Front Axles (12KT)
HLNA0512	12mm Hex Adapters (12KT)
HLNA0513	Spur Gear (12KT)
HLNA0514	Top Shaft (12KT)
HLNA0515	Differential Bearings (12KT)
HLNA0516	Bearings, 3x6x2.5mm (12KT)
HLNA0517	Motor Screw Kit (12KT)
HLNA0518	Links, Pivot Balls and Screws (12KT)
HLNA0519	Front Bumper (12B)
HLNA0520	Rear Wing (12B)
HLNA0521	Rear Suspension D Brace (12KT)
HLNA0522	Bushings, 5x10x4mm (12KT)
HLNA0523	Front Shock Set (12B)
HLNA0524	Rear Shock Set (12B)
HLNA0525	Outer Hinge Pin Set (12KT)
HLNA0526	Inner Hinge Pin Set (12KT)
HLNA0532	Driver (12KT)
HLNA0533	Clear Driver (12KT)
HLNA0535	Button Head Philips Screw Set (12B)
HLNA0536	Flat Head Philips Screw Set (12B)



...REPLACEMENT PARTS LIST CONTINUED

HLNA0537	Flanged Locknuts, M4, Black
HLNA0538	Steering Hardware Kit (12KT)
HLNA0539	LiPo Charging Bag, 2s 1500mAh 10C.....
HLNA0540	Pinion Gears, 2.3 x M0.6 12T, 14T (12KT)
HLNA0545	Contact 12STR 2wd Sport Truggy (US)
HLNA0546	Contact 12STR 2wd Sport Truggy (UK)
HLNA0547	Contact 12STR 2wd Sport Truggy (EU)
HLNA0548	Contact 12STR 2wd Sport Truggy (AU)
HLNA0551	Body Mounts (12SC, TR)
HLNA0559	Motor, Brushed, 390 Size, RR.....
HLNA0560	Wheels and Tires (12TR).....
HLNA0561	Body, Blue-Silver (12TR)
HLNA0562	Body, Red-Gold (12TR)
HLNA0563	Body, Clear (12TR)
HLNA0564	Decal Sheet (12TR).....
HLNA0565	Gearbox, 3-Piece (12KT).....

NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

CONTACT

1/12th SCALE 2WD ELECTRIC TRUGGY

000473-001 (REV A)



HELION