

CR-18pro

1:18 SCALE 4WD ELECTRIC MINI PRO CRAWL
BEDIENUNGSANLEITUNG
MANUAL
MODE D'EMPLOI



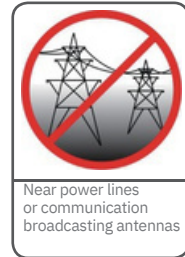
ABSIMA



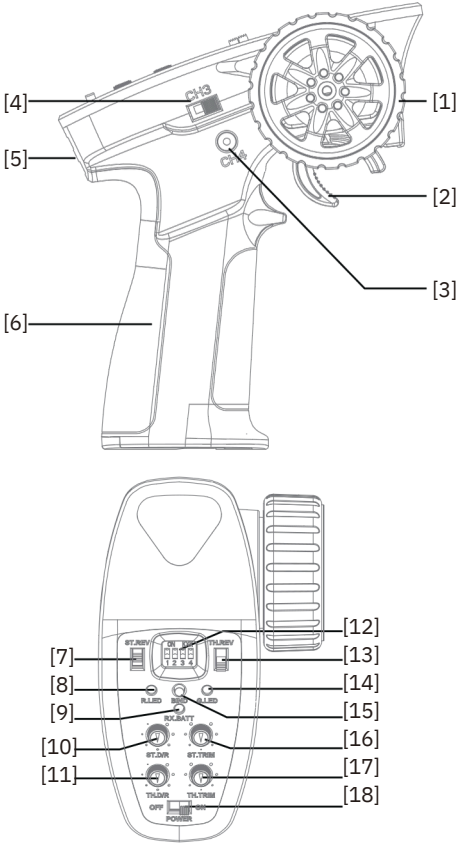
Precautions !

Read the safety messages listed below before operation!

- Do not use the product at night or during bad weather conditions, like rain or thunderstorms. It can cause erratic operation or loss of control.
- Do not use the product when visibility is limited.
- Do not expose the product to rain or snow. Any exposure to moisture (water or snow) may cause erratic operation or loss of control.
- Interference may cause loss of control. To ensure the safety of you and others, do not operate in the following places:



- Do not use this product when you are tired, uncomfortable, or under the influence of alcohol or drugs. Doing so may cause serious injury to yourself or others.
- The 2.4GHz radio band is limited to line of sight. Always keep your model in sight as a large can block the RF signal and lead to loss of control.
- Never grip the transmitter antenna during operation. It significantly degrades signal quality and strength and may cause loss of control.
- Do not touch any part of the model that may generate heat during operation, or immediately after use. The engine, motor or speed control, may be very hot and can cause serious burns.
- Misuse of this product may lead to serious injury or death. To ensure the safety of you and your equipment, read this manual and follow the instructions carefully.
- Make sure the product is properly installed in your model. Failure to do so may result in serious injury.
- Make sure that the receiver's battery is disconnected before turning off the transmitter. Failure to do so may lead to unintended operation and cause an accident.
- Ensure that all motors operate in the correct direction. If not, adjust the direction first.
- Make sure that the model stays within range in order to prevent loss of control.
- The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.
- Hereby, [Absima GmbH] declares that the Radio Equipment [FS-MG41] is in compliance with RED 2014/53/EU.
- The full text of the EU DoC and Appendix 1 of the FCC Statement are available at the following internet address: www.Absima.com
- CAUTION
- RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.
-



[1]	Wheel Angle, the maximum rotation of the steering wheel is 35 degrees from center to left or right (CH1)	[10]	Steering D/R (ST.D/R)
[2]	Throttle trigger, has a total throw of 12 degrees, 12.5 degrees forward, and 12.5 degrees backward (CH2)	[11]	Throttle D/R (TH.D/R)
[3]	Button (CH4)	[12]	Dial Switch (Switching the working mode of the electric dispatching)
[4]	Three-position switch (CH3)	[13]	Throttle Reverse Switch (TH.REV)
[5]	Lanyard Eye	[14]	Status indicator green LED (G.LED)
[6]	Handle, 4 * AAA battery compartment	[15]	Bind Button (BIND)
[7]	Steering Reverse Switch (ST.REV)	[16]	Steering Trim (ST.TRIM)
[8]	Power indicator LED (R. LED)	[17]	Throttle Trim (TH.TRIM)
[9]	Two color LED battery volume (RX.BATT)	[18]	Power Switch

Basic Operations



► Install the Battery

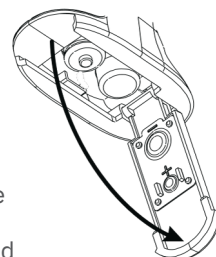
Battery Type: AAA

Battery Installation:

1. Open the battery compartment cover.
2. Insert 4 fully-charged AAA batteries into the compartment. Make sure that the battery makes good contact with the battery compartment's contacts.
3. Replace battery compartment cover.

Low battery alarm: When the battery is lower than 4.2V, the G.LED on the panel will flash slowly.

Note: When installing the battery, please pay attention to the positive and negative poles of the battery to avoid installation errors. (As shown on the right)

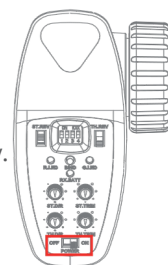


►Power on

Follow the steps below to turn on the transmitter:

1. Check to make sure that that battery is fully charged and installed correctly.
2. Toggle the switch to the [ON] position. When active the R.LED will be lit.
3. Connect the receiver to power.

For safety always power on the transmitter before the receiver.



►Binding

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

1. Turn on the transmitter while holding the bind button to enter bind mode. G.LED will start flashing quickly.

- Once in bind mode release the bind button.

2. The receiver will enter bind mode atomically when powered on.

3. Once binding is successful the receivers and transmitter's LED will remain solid.

Note: When binding, put the transmitter into bind mode first, then the receiver. If the Binding does not finish in 10s, The receiver will quit bind mode automatically.

! This binding information only applies to the attached receiver on the product, different receivers may require a different procedure to complete the binding process.

! Product information is updated regularly, please visit our website: www.absima.com for more informations.



► Stick Calibration

This function is used to set the neutral position for throttle and wheel.

Every transmitter is calibrated before leaving the factory, however if recalibration is required, please follow these steps:

1. Turn and hold the wheel as far clockwise as it will turn, hold the throttle all the way forward, then turn on the transmitter in calibration mode.

- The R.LED and G.LED will flash twice.

2. Calibrate wheel: Turn the wheel completely clockwise, then completely counterclockwise.

- When calibration is completed the R.LED will be off.

3. Trigger calibration: Pull the trigger back then forward as far as it will go.

- When calibration is completed the G.LED will be off.

4. Once calibration is complete press the bind key to save and exit.

► Failsafe

This function dictates what the receiver will do in the event that it loses signal from the transmitter, this includes servo position etc.

Setup:

- Turn on the transmitter and make sure it is connected to the receiver. Hold the control surface at the desired failsafe position. Press and hold the bind button for 3 seconds, if the G.LED starts flashing every 2 seconds then setup has been successful. Failsafe is now set and will default to these values when the receiver loses signal.

Note: The fail-safe function has no default set at the factory and as such must be set manually. If no failsafe setting has been set, then the receiver will not output anything when signal is lost.

► Power Off

Follow the steps below to turn off the system:

1. Disconnect the receiver power.

2. Toggle the transmitter's power switch to the off position.

- ! Make sure to disconnect the receiver power before turning off the transmitter. Failure to do so may lead to damage or serious injury.

Specifications

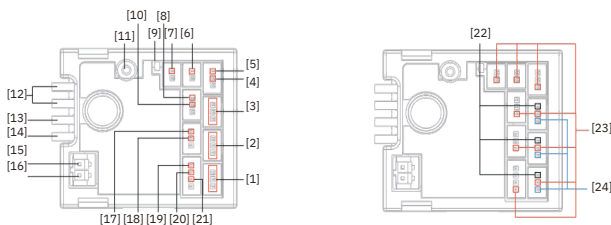
Product Name	FS-MG41
Channels	4
Model Type	Car, Boat
RF	2.4 GHz
RF power	Less than 20 dBm
2.4GHz system	ANT
Distance	>150m(ground distance without interference)
Channel Resolution	1024
Low Voltage alarm	Less than 4.2V
Power Input	6V DC 1.5AAA (LR03)*4
Temperature Range	-10°C—+60°C
Humidity Range	20—95%
Dimension	118mm x 73mm x 145mm
Weight	130g
Certificate	CE, FCC

Specifications



- Product Name: FS-R4A3-BS
- Adaptive Transmitters: FS-MG43-BS
- Adaptive Models : 1:18 simulation cars, climbing cars
- Number of Channels: 4
- Number of Lights: 7
- RF: 2.4GHz ISM
- 2.4G Protocol: 2A-BS
- Antenna: Single antenna
- Input Power: NiMH (5~7Cell)/ 2S Lithium batteries
- Continuous/Peak Current: 10A/50A
- Data Output: PWM
- Temperature Range: -10°C ~ +60°C
- Humidity Limit: 20%~95%
- Waterproof: PPX4
- Distance: >150m(Ground distance without inference)
- Online Update: NO
- Dimensions: 33mm*30mm*12mm (Excluding capacitor)
- Weight: 11g
- BEC Output: 6V/1A
- Certification: CE, FCC

Overview



- | | | | | |
|---------------------------------------|---------------------------|---------------------------|--------------------------|--|
| [1] CH1 | [2] CH3 | [3] | [9] LED | [17] Left turn signal light interface |
| CH4 | [4] Headlight interface | | [10] Headlight interface | [18] Right turn signal light interface |
| | | | [11] Antenna | [19] Tail light interface |
| | | | [12] Power switch | [20] Stop light interface |
| [5] Right turn signal light interface | [13] Battery line anode | | | [21] Backup light interface |
| [6] Fog light interface | [7] Fog light interface | [14] Battery line cathode | | [22] Channel signal end |
| [8] Left turn signal light interface | [15] Motor interface "M+" | [16] Motor interface "M-" | [23] Power anode | |
| | | | [24] Power cathode | |

Binding

The receiver automatically enters the binding state once it is powered on. Follow the steps below to bind with the transmitter.

1. Power on the transmitter while pressing the BIND button, then the transmitter enters the binding mode. At the time, The G.LED on the transmitter flashes quickly, then release the BIND button.
2. After the receiver is powered on, it will automatically enter the binding mode if it is not connected to the transmitter in 1 second;
3. After the binding is finished, the LED of the receiver is solid on.

Notes: Put the transmitter into binding mode first, and then put the receiver into its binding mode. If the binding is not finished within 10s, the LED of the receiver will enter its slow flashing state.

Car light control



The car light control is mainly to implement the changeover of lighting states and lighting modes by the setting of the transmitter.

This receiver is preset with five modes for controlling model car lights. In each mode, the on/off states of backup lights are consistent; in other words, the backup light is in a high-light state when the model car backs up; otherwise, it is in off state. The turn signal light, headlight, stop light, tail light and fog light have different on/off states as follows:

- Default mode : In this mode, the turn signal light is in off state regardless of whether the model car makes a turn or not; When braking, the stop light is in a high-light state, and otherwise, it is in off state; The headlight, tail light and fog light are in off state.
- Mode A : In this mode, the turn signal light is in a slow flashing state when the model car makes a turn; When braking, the stop light is in a high-light state, and when not braking, it is in a low-light state; The headlight is in a low-light state; The tail light and fog light are in off state.
- Mode B : In this mode, the turn signal light is in a slow flashing state when the model car makes a turn; When braking, the stop light is in a high-light state, and when not braking, it is in a low-light state; The headlight is in a high-light state; The tail light and fog light are in off state.
- Mode C : In this mode, the turn signal light is in a continuously slow flashing state regardless of whether the model car makes a turn or not; When braking, the stop light is in a high-light state, and when not braking, it is in a low-light state; The headlight is in a high-light state; The tail light and fog light are in on state.
- Mode D : In this mode, the turn signal light is in a slow flashing state when the model car makes a turn; When braking, the stop light is in a high-light state, and when not braking, it is in off state; The headlight is in off state; The tail light and fog light are in on state.

Notes:

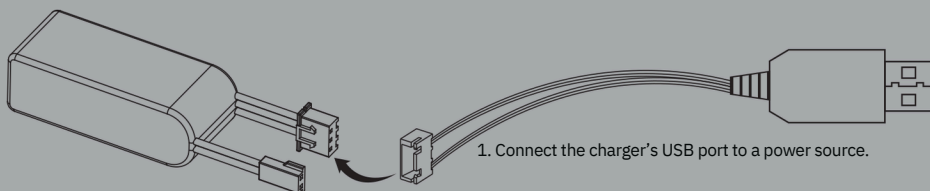
1. The CH4 channel of the receiver can output both the light mode signal and the PWM signal. It needs to be set at the transmitter side. Press the CH4 button on the transmitter for a short time, the CH4 channel outputs the light mode. Each time it is pressed, one mode per press (Default Mode, Mode A, Mode B, Mode C and Mode D are switched in turn); Press and hold the CH4 button for a while, then switch the CH4 channel to PWM output.
2. Every time the receiver is turned on, the car light control mode is in Default Mode.
3. Mode C is an emergency light working state. In this mode, the left and right turn signal lights flash synchronously and slowly as emergency lights.
4. This receiver identifies the neutral positions of Steering CH1 and Throttle CH2 automatically when it is powered on. It recommends to power on the receiver again after the trims of the transmitter are turned.

ATTENTION: This article describes the modes which are possible with the speed controller! Depending on the vehicle, the modes may be different or only partially activated.

If only a standard lighting is stored (only one plug in the lighting connectors for headlights and taillights), this is activated / deactivated by pressing the channel 4 button several times!

Charging the Battery

1. Connect the charger to a USB port then connect the battery to the charger.
2. When charging, the status LED is red, when charged, the status LED is green.
3. Do not let the battery charge unattended!
4. If the battery or charger is hot, disconnect the battery and charger immediately as this may be caused by an internal short-circuit.



1. Connect the charger's USB port to a power source.

2. Connect the battery to the charger.

Warranty Terms



By purchasing and using your Absima product, you agree to the warranty terms of Absima GmbH.

The warranty applies only to material and/or functional defects already present at the time of purchase of the product.

Excluded from the guarantee:

- Damage caused by incorrect use
- Damage due to neglect of duty of care
- Damage due to improper handling and maintenance errors
- Fluid damages

Please report warranty claims to your dealer.

If it is necessary to return your product, please enclose your proof of purchase and a detailed description of the fault with the shipment. We also need your complete contact details (legible).

The direct sending to the service department of Absima GmbH requires the previous arrangement. This can be done by telephone under +49 911 65084130 or by e-mail to service@absima.com

The shipping costs are borne by the sender. Parcels that are not free of charge or are subject to charges will not be accepted.

Each incoming warranty case is first checked by our service department for admissibility. Complaints that are not covered by the warranty may incur costs for the inspection. Repairs or services that are not covered by the warranty will be charged in advance.

Disclaimer

Since Absima GmbH cannot at any time monitor the observance of the operating instructions as well as the operation and conditions of use of the product, Absima GmbH does not assume any liability for damages, costs, losses resulting from incorrect handling and/or incorrect operation or in any way related thereto. To the extent permitted by law, the obligation to pay damages, for whatever legal reason, will be limited to the invoice value of the Absima product involved in the event. This does not apply as far as we have to assume unlimited liability due to mandatory legal regulations or gross negligence.

Declaration of conformity

The manufacturer hereby declares that the product complies with the essential requirements and other relevant provisions of the EU Directive.

The declaration of conformity can be found at

<http://absima.com/index.php/downloads/erklarungen/>

or can be consulted under

Absima GmbH - Gibitzenhofstrasse 127a/RG - 90443 Nuremberg, Germany
can be requested.



Disposal



Waste electronic equipment is a raw material and should not be disposed of with household waste. If the product is at the end of its service life, dispose of it at your local collection points in accordance with the applicable legal regulations. Disposal with household waste or at the expense of the environment is prohibited.

Important! Remove the batteries or rechargeable batteries before disposal. A separate take-back system applies to batteries and rechargeable batteries.

By properly disposing of your old appliances, you make an important contribution to environmental protection.

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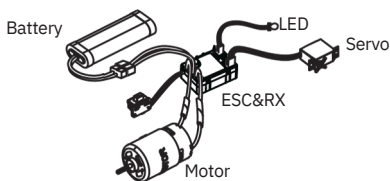
Technical changes, design and equipment subject to change without notice.

ESC function instructions



1. Connect related equipment:

- Make sure the ESC is off before connection. Connect the motor with M+ and M- of ESC. Connect the steering servo to the 3Pin interface marked with "ST" of ESC (- + S connected correspondingly). Connect the battery with the positive and negative poles of ESC correspondingly.



2. Normal boot, identification throttle midpoint:

- After connecting related equipment as step 1, turn on the radio first, move the throttle trigger to the neutral position. Turn on the switch of ESC at last. The receiver will automatically recognize the battery type when is powered on again. Then it can run it.

Notes:

- a. The ESC can be run after completing self-inspection (about 3 seconds) if power on, otherwise it cannot be operated normally.
- b. If there is no power output and the red light of ESC flashes quickly after power on, please check whether the throttle trim of the transmitter is set to the "0" position. the receiver will automatically recognize the midpoint of the trim throttle after restarting;
- c. If the rotation direction is not correct during running, exchange the two wires connecting motor and ESC.
- d. To make sure everything is ok, please turn on the transmitter first and finally turn on the ESC, turn off the ESC first and finally turn off the transmitter.

Note: Please refer to the relevant sections for details about the battery type, drag brake force and running mode of the ESC.

⚠ Attention:

- Make sure the product is installed and calibrated correctly, failure to do so may result in serious injury.
- Please carefully check each power device and car frame instructions to ensure the power matching is reasonable before use. Avoid damaging power system due to incorrect matching.
- Do not let the external temperature of the system exceed 90°C /194 °F, because high temperature will damage the power system.
- Make sure the receiver's battery is disconnected before turning off the transmitter, failure to do so can result out of control. Unreasonable setting of the Failsafe may cause accidents.
- After use, remember to disconnect the battery and the ESC. If the battery isn't disconnected, the ESC will consume electric energy all the time even if it is off. It will discharge completely if connect the battery for a long time, thus resulting in the failure of the battery or the ESC. We are not responsible for any damage caused by this!
- Make sure the receiver is mounted away from motors or any device that emits excessive electrical noise.
- Keep the antenna of the receiver at least 1cm away from conductive materials such as carbon or metal.
- Do not power on the receiver during the setup process to prevent loss of control.



READ CAREFULLY BEFORE USE

STORE

- Use chargers and settings that are compatible with the battery you are charging (NiMH, LiPo ...).
 - Always use a charger with balancer function for LiPo batteries.
 - We recommend a maximum charge current of 1C for all batteries (e.g. 4A charge current for a 4000mAh battery).
-

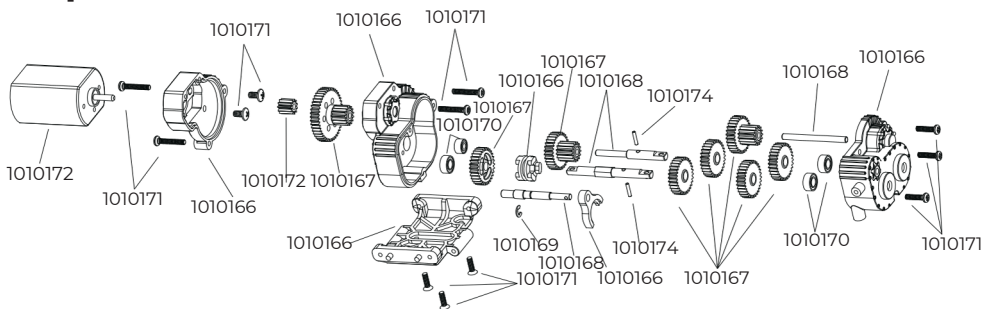
APPLICATION

- The battery must be well protected against external influences and damage.
 - Set the cut-off voltage of your speed controller according to the type of battery and the electronics used.
 - Deep discharge of LiPo batteries will damage the cells.
 - Do not overload the battery with excessive charge/discharge currents.
-

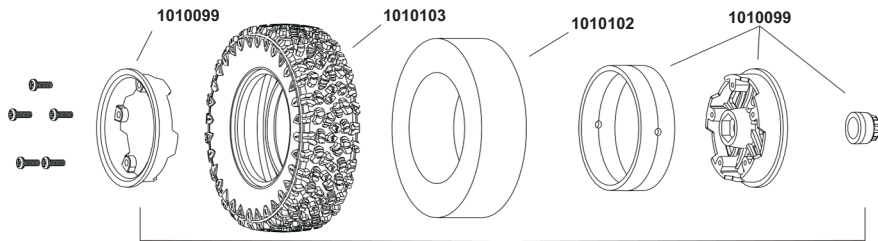
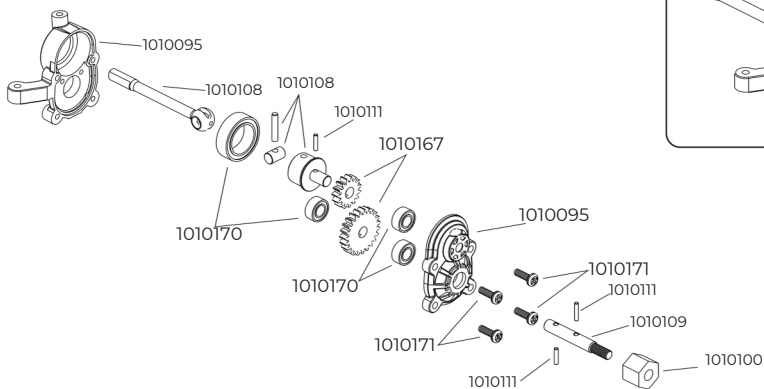
WARNINGS

- Never leave the battery unattended during charging and discharging. Charge
- and use only under the direct supervision of an adult. Do not modify the
- battery either on the housing or on the plugs. Only charge the battery in a
- well-ventilated room away from flammable and/or electrically conductive materials. If noticeable odors, discoloration, excessive heat, escaping
- gases/liquids or deformation of the housing occurs during charging, disconnect the battery immediately from the charger and store it in a safe and fireproof place. NiMH batteries can become hot during use and charging.
- When storing LiPo batteries over a long period of time, ensure that the cell
- voltage is approx. 3.8V/cell. Otherwise the cells may be damaged.

2 Speed Gear Box

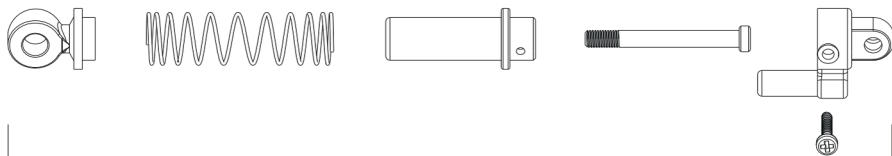


Front Portal



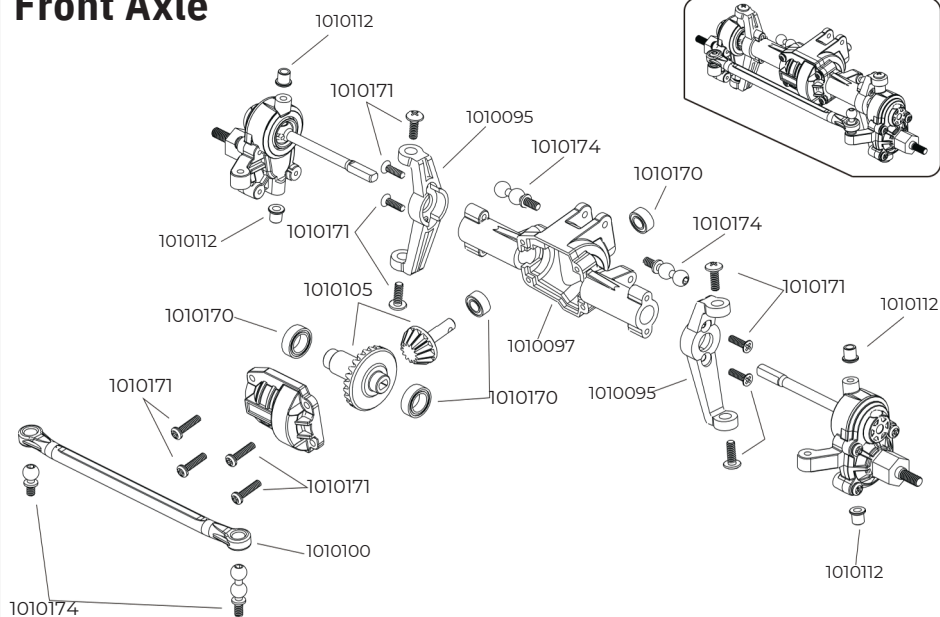
1010104 Tire Set

Shocks Assembly

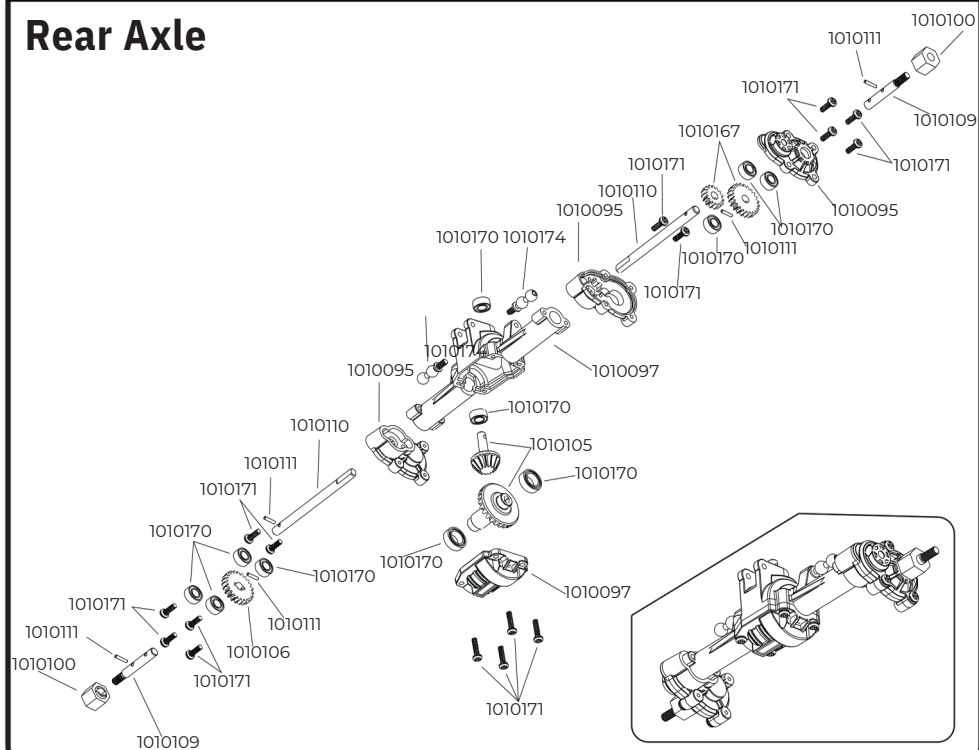


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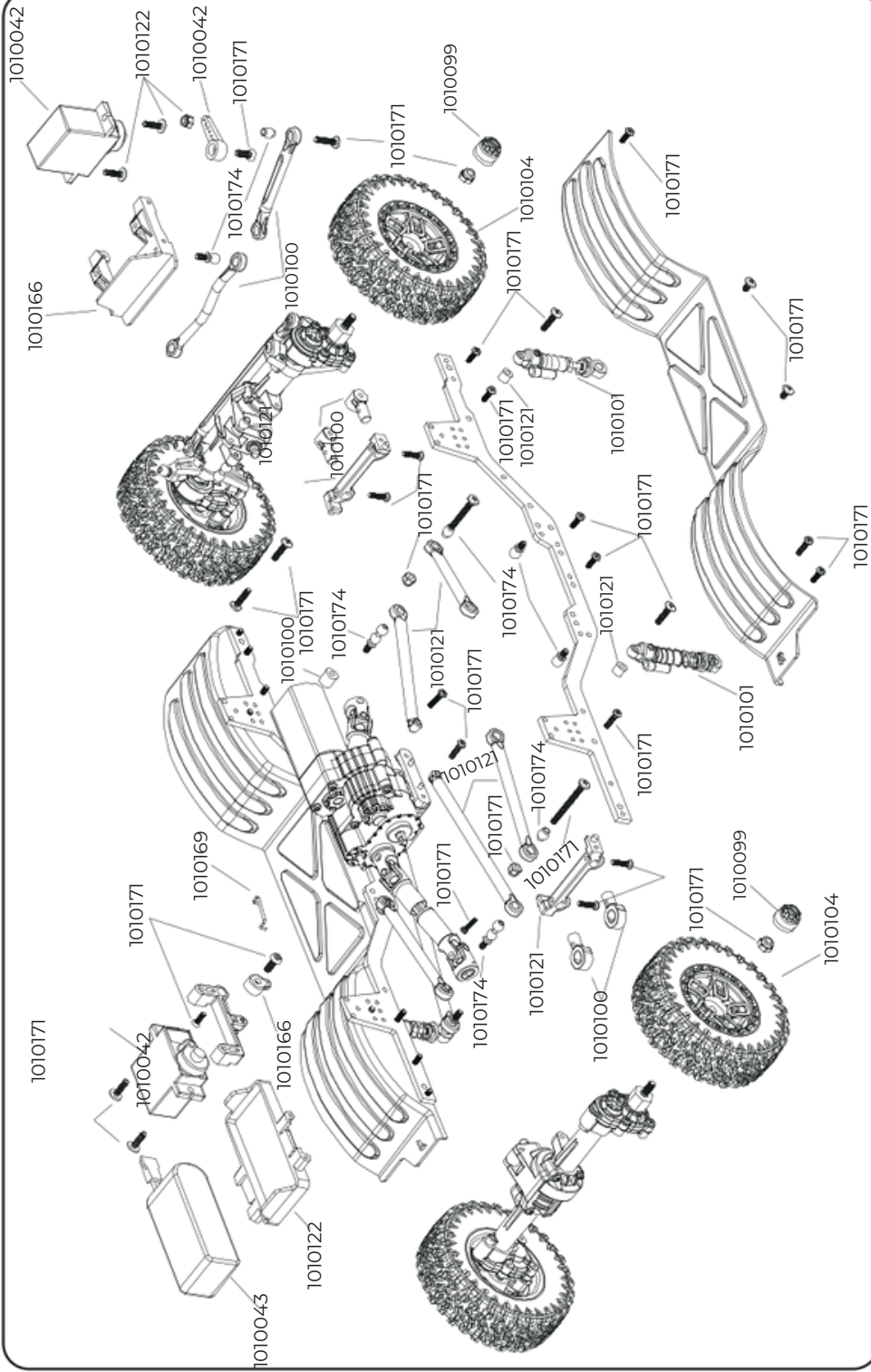
Front Axle



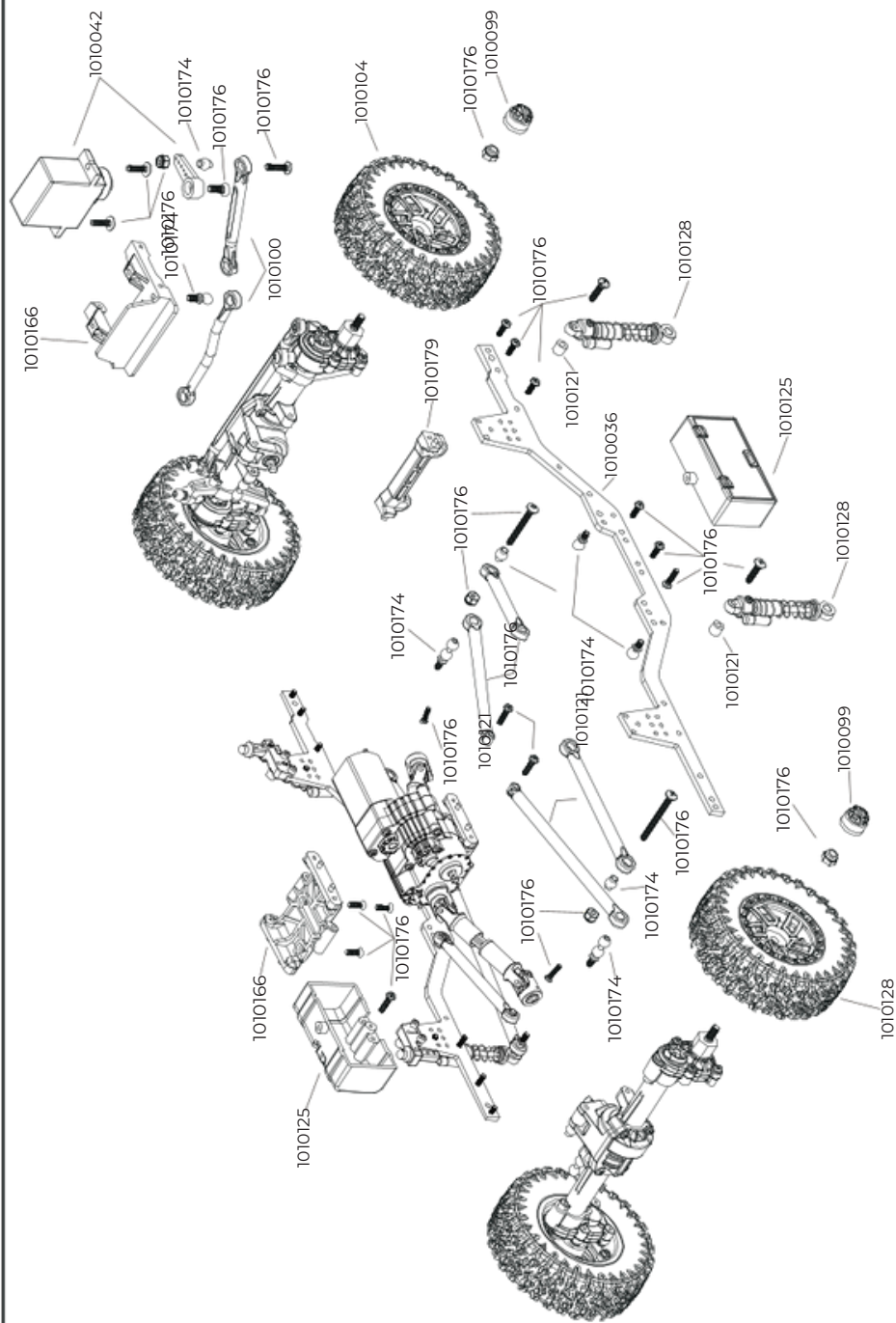
Rear Axle



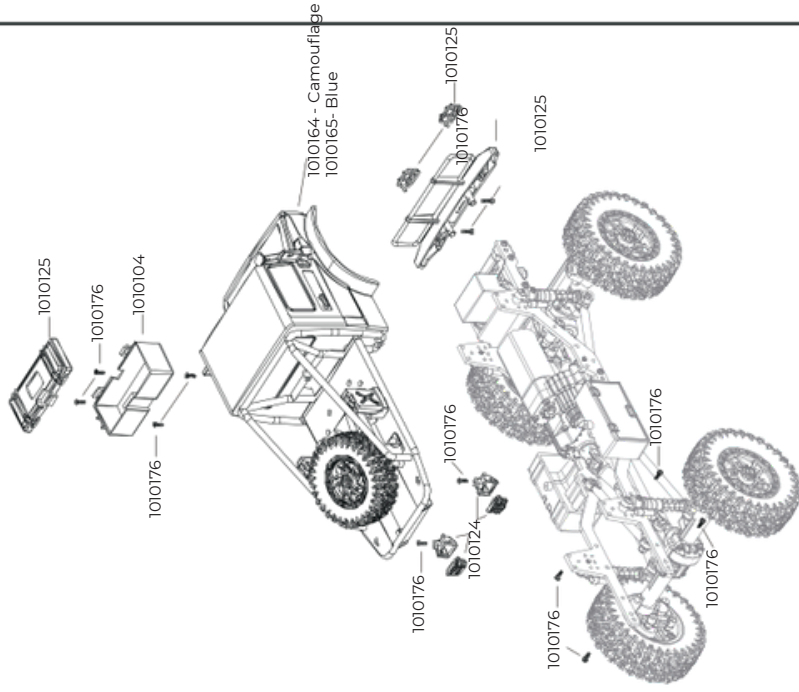
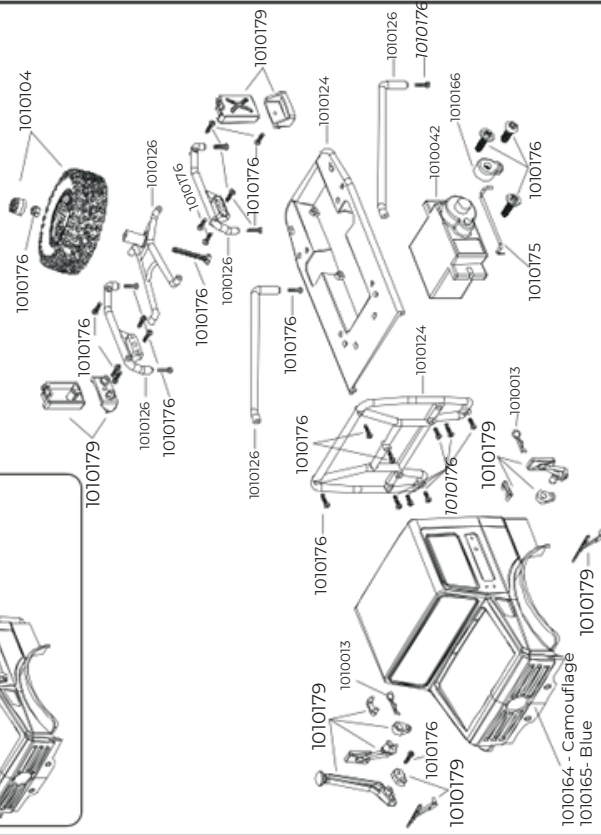
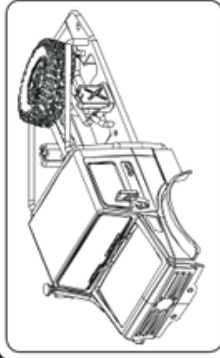
ROCK VAN EVO MAIN CHASSIS INSTALLATION



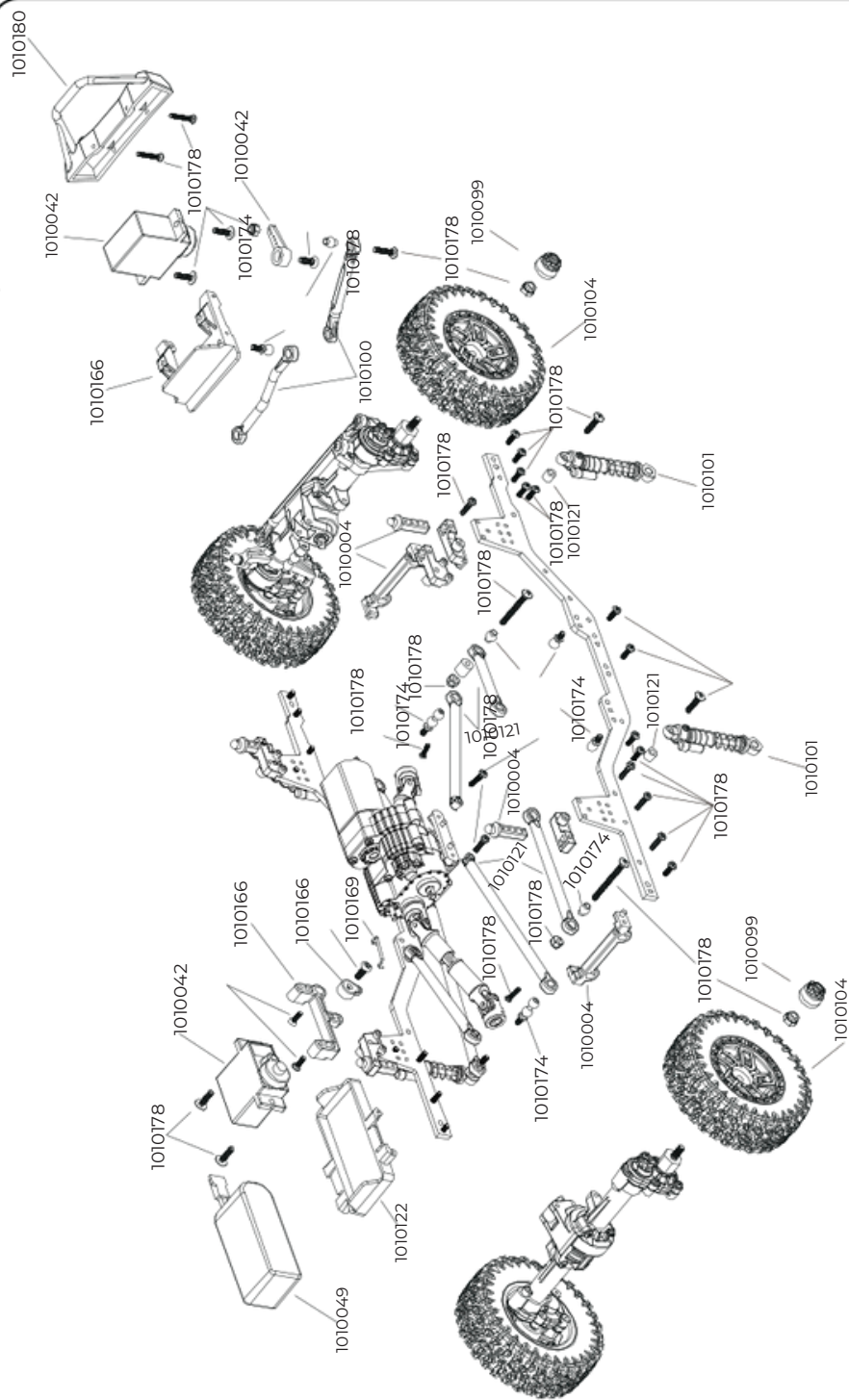
THE NEW EVO MAN CHASSIS INSTALLATION



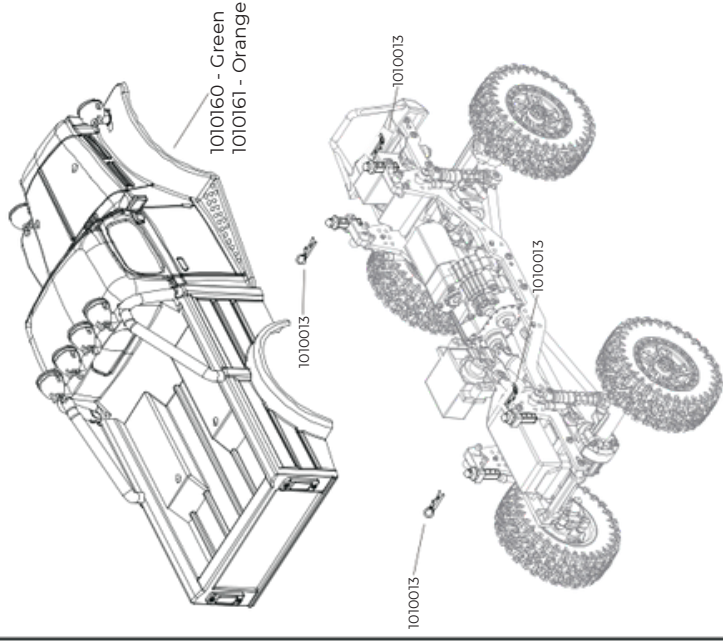
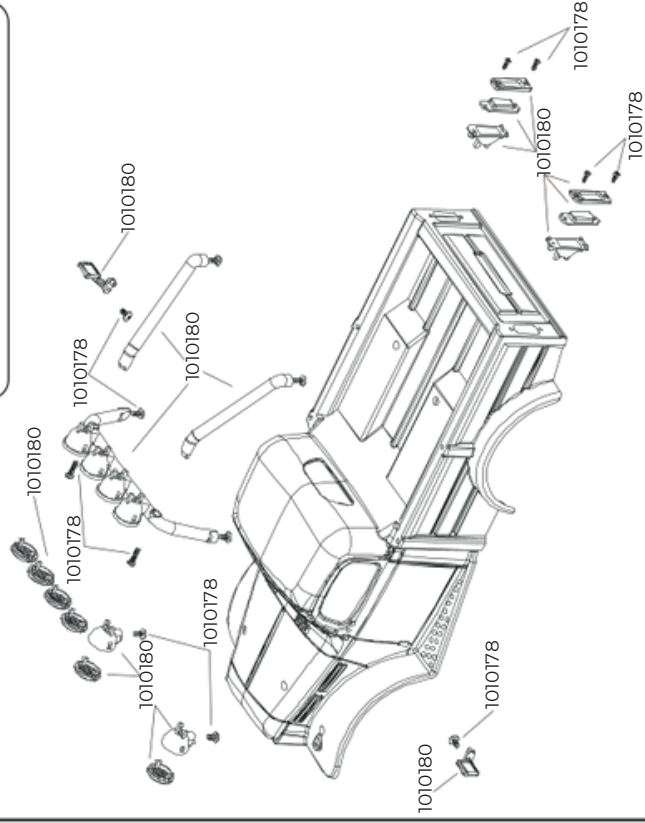
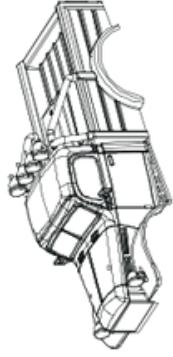
T-Hunter EVO Body Installation



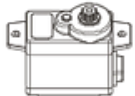
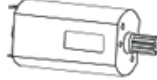
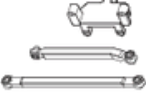
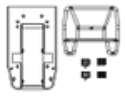
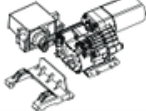
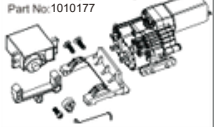
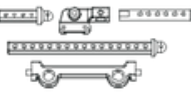
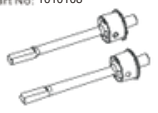
Harvest EVO MAIN CHASSIS INSTALLATION



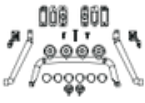
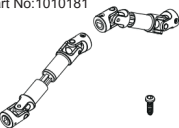
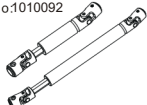
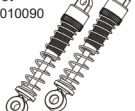
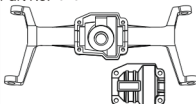
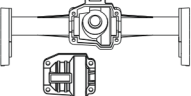
Harvest EVO Body Installation



SPARE PARTS LIST

1KG High Torque 3wire Servo Part No: 1010042 	7.4V 600MAH Lipo Part No: 1010043 	CR18P-EVO Crawler Motor (100T) Part No: 1010172 	7.4V USB Charger Part No: 1010049 	4Channel TX & ESC:RX Combo V3 part No: 1010083 
Optional Aluminum SOA Conversion Set Part No: 1010148 	CR18P Portal Hub Part No: 1010095 	CR18P Front/Rear axle Part No: 1010031 	Bead Lock Wheel (1.2) Part No: 1010099 	CR18P Mount & Link set Part No: 1010100 
CR18P Metal pinion and ring gear Part No: 1010105 	CR18P Complete Bushing Set Part No: 1010167 	Tracking A/T Tire (1.2) 4pcs Part No: 1010103 	Tyre foam (1.2) 4pcs Part No: 1010102 	Tracking A/T Tire Set (1.2) 4pcs Part No: 1010104 
CR18P Rear Axle Drive Shaft Part No: 1010110 	CR18P Ball Stud set Part No: 1010174 	CR18P Metal Portal Gear Part No: 1010106 	1 x4.5mm Pin Part No: 1010111 	CR18P Portal axle Shaft Part No: 1010109 
CR18P Spindle Hub Busing Part No: 1010112 	Shock set (Short) Part No: 1010101 	Shock set (grey) Part No: 1010128 	CR18P-EVO Gear Box Part No: 1010166 	CR18P-EVO Metal Transmission Gear Part No: 1010167 
Optional Inner Fender for Rock Van Part No: 1010140 	CR18P Rock Van Grill & Bumper Part No: 1010098 	Battery Box Set Part No: 1010125 	T-Hunter Rollcage A Part No: 1010124 	T- Hunter Rollcage B Part No: 1010126 
CR18 LED Light Set Part No: 1010044 	Rock Van Light Kit Part No: 1010117 	CR-18 Aluminum Main Chassis Set Part No: 1010036 	CR18P-EVO Complete Transmission Gear Box Set Part No: 1010173 	CR18P-EVO Complete Transmission Gear Box Set (T-Hunter) Part No: 1010177 
Body and Bumper Post Set Part No: 1010004 	CR18P-EVO Screw Set (Rock Van) Part No: 1010171 	CR18P-EVO Screw Set (T-Hunter) Part No: 1010176 	CR18P-EVO Screw Set (Harvest) Part No: 1010178 	CR18P-EVO Shifter Hardware (T-Hunter) Part No: 1010175 
CR18P Front CVD Drive Shaft Part No: 1010108 	CR18P Link Set Part No: 1010121 	CR18P-EVO Gear Box Shaft Part No: 1010168 		

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CR18P-EVO Shifter Hardware Part No.:1010169 	CONVOY Roll CageWith Light MountSet Part No: 1010055 	T-Hunter Body Parts Set Part No.:1010179 	T- Hunter Rollcage Set Part No:1010135 	CR18P Rock Van Body Parts Part No:1010096 
CR18P Transmission gear box set Part No:1010122 	Micro Body Clip (10pcs) Part No: 1010013 	HD Main Drive Shaft Part No:1010181 	Metal Shift and Slider Part No.:1010187 	Clear Lexan HARVEST Body Part No:1010056 
CR18P-EVO Rock Van Body (Metal Gun) Part No.:1010162 	CR18P-EVO Rock Van Body (Blue/ Orange) Part No.:1010163 	Rock Van Clear Lexan Body Part No:1010118 	CR18P-EVO Harvest Body (Green) Part No.:1010160 	CR18P-EVO Harvest Body (Orange) Part No.:1010161 
T-Hunter Clear Lexan Body Part No: 1010130 	CR18P-EVO T-Hunter Body (Camo) Part No.:1010164 	CR18P-EVO T-Hunter Body (Blue) Part No.:1010165 		
Optional / Spot Light Set (Rock Van) Part No:1010116 	Steel U-Joint Drive Shaft Set for CR-18(2pcs)/Optional Part No:1010092 	Optional / 1,2 Steelie Bead Lock Wheel (Black) Part No:1010142 	Optional / 1,2 Steelie Bead Lock Wheel (Silver) Part No:1010141 	Aluminum High Clearance Link (Black)/ Optional Part No:1010187 
Optional / Machine Brass Wheel Hex (4pcs) Part No:1010136 	Optional/ Brass Wheel Weight(4pcs) Part No:1010137 	Aluminum Upgrade /Optional Shocks Set Part No:1010090 	Optional Aluminum Oil Filled Shock Set(4pcs) /Optional Part No:1010138 	Optional Aluminum SOA Conversion Set/ Optional Part No:1010148 
CR18P Rear Portal Hub Brass Weight / Optional Part No:1010145 	CR18P Front Portal Hub Brass Weight / Optional Part No:1010146 	CR-18P Machine Aluminum Front Axle / Optional Part No:1010147 	CR-18P Machine Aluminum Front Portal Hub Set / Optional Part No:1010143 	CR-18P Machine Aluminum Rear Axle / Optional Part No:1010144 
12X8X3.5 Ball Bearing/ Optional (10pcs Rubber Seal) Part No:1010185 	8X5X2.5 Ball Bearing / Optional (10pcs Rubber Seal) Part No:1010186 	5X2X2.5 Ball Bearing/ Optional (10pcs Rubber Seal) Part No:1010184 	CR18P-EVO Complete Ball Bearing set(30pcs Rubber Seal) Part No:1010182 / Optional 	6X3X2.5 Ball Bearing / Optional (10pcs Rubber Seal) Part No: 1010183 