505001 E6 MONSTER TRUCK TROOPER

E6

Instruction Manual

Thank you for choosing the Team Magic E6 TROOPER. The E6 TROOPER is designed to be fun to drive and usestop quality parts for performance and durability. Before you start building your new R/C kit, we suggest you read though the instruction manual first. Be sure to check all assembly and performance tips before you start. We hope you enjoy the building processes.

General Building Tips:

- Read the instruction manual before building.
- Clear a work area and try to work on a light color towel to avoid missing dropped parts.
- Don't over-tighten fasteners. Many assembly problems are caused by over-tightening screws or nuts. Don't use too large a grip. Please go slowly and feel the resistance build. Just snug it up.
- When it doesn't fit, please double check. If an assembly is not going together correctly, then either there really is a bad fit (e.g. a part is damaged or defective) or a mistake in assembly. Always re-read the instructions when there are any problems. If you cannot figure out what's wrong, always ask dealer, distributor or Team Magic. Don't use force beyond what the instructions call for.
- Using the right tools makes assembly much easier. The instructions below finely indicate you what tools to get to make things easier. We don't want to scare you by saying that all these tools are required, but you will have a easier time if you have them. Borrow them from a friend to check if necessary.
- The assembly is arranged so that you will open the bag and finish that bag before you go on to the next bag. Sometimes, you will have parts remaining at the end of a bag. These will become part of the following bags.

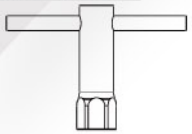
A Good Dealer Is Extremely Important!!

A good hobby dealer can help you with most assembly problems you might encounter. This is the main reason why you should buy your kits from a good dealer rather than from the cheapest dealer. Bring your problematic parts to the dealer and, most likely, you'll walk away soon thereafter with the problem solved. If you think that you really don't have the mechanical skills to complete the assembly, you may pay your dealer to finish the job for you.

Thank you for purchasing the E6 TROOPER. To drive the car, you will need to check the following procedures.

1 Included tools

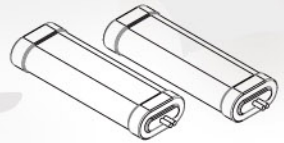
- Cross Wrench (17mm)



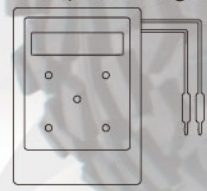
2 Required items

- AA Alkaline Or Rechargeable Batteries For Transmitter, 8pcs

- 7.2v Rechargeable Battery Pack X 2



- Battery Pack charger

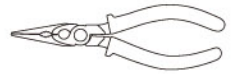


3 Helpful equipments

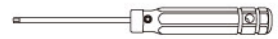
- Hobby Knife
  (Warning!! This knife cuts nylon parts and fingers with equal ease. Be careful.)

- Body Scissors
  (for body cutting)
  #116006

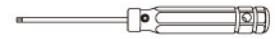
- Needlenose Pliers



- TM Black HC Hex Wrench Metric Size 1.5mm
  #117002-1M



- TM Black HC Hex Wrench Metric Size 2.0mm
  #117002-2M



- TM Black HC Hex Wrench Metric Size 2.5mm
  #117002-3M

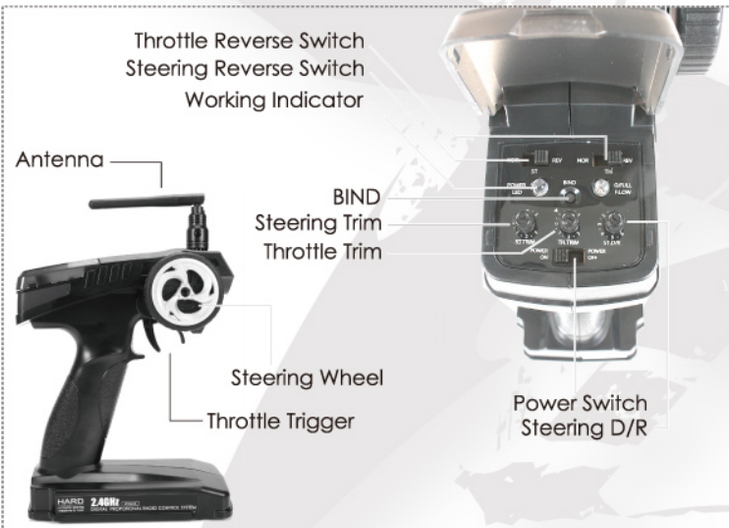
- TM Black HC Hex Wrench Metric Size 3.0mm
  #117002-4M

- TM Black HC Nut Driver 5.5mm (for 3mm nut)
  #117010

(Please always buy these items in model shops)

Instruction & Setup Manual

1 Tramsmitter Function



2 Operating Procedure

01 Install 8pcs AA batteries to the H.A.R.D. transmitter.

02 Turn on the transmitter first.

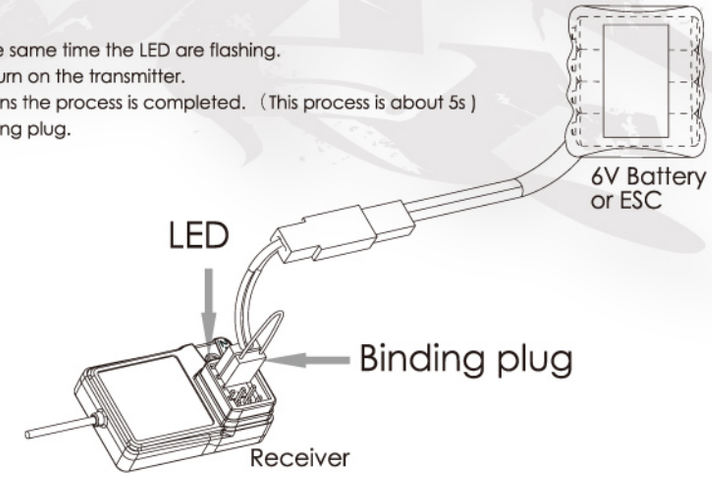
03
- Turn the steering wheel right to turn the front tires go right.
- Turn the steering wheel left to turn the front tires go left.

04
- Press the throttle trigger to moving forward the vehicle
- Push forward the throttle trigger to brake and reverse the vehicle.

3 Binding (connecting the receiver to transmitter)

Our products are factory presets, and doesn't need to change, but if you need to change a new receiver or transmitter, please follow the steps below:

1.Install the battery to 2.4G transmitter and shut it down.
2.Insert the binding plug to the CH3 port of the receiver.
3.Connect the receiver battery to BATT port of the receiver, on the same time the LED are flashing.
4.Press and hold the binding button on the transmitter, and then turn on the transmitter.
5.Observe the LED on the receiver, if the LED light is steady, it means the process is completed. （This process is about 5s ）
6.Release the binding button on the transmitter, take out the Binding plug.
7.Install the server and then test.
8.If the test failed, please repeat the steps above.
9.If the test success, then insert the power supply port into CH2.



07 ESC operating instructions.

■ Specifcation

1.Input Voltage:
14.4V(NI-CD/MH 7.2V x2)
2.Output:Rating 60A, Peak:150A
3.Out max power:60A/7.2V(MAX 432W)
4.Size/Weight:45mm×56m×28.3mm/120g
5.BEC:5V 2A
6.P.W.M:9.5KHz
7.Motor limit:Over 19 turns 550 brushed motor ×2
[≦7.2V(6 cells) or 7.4V(Li-Po 2 cells)]×2

■ Over temperature protection

The motor will be intermittenly turned off when the temperature reaches around 98℃ ±3~5℃ .Optional vent fan is available for selection to enhance the ESC ventilation.**(LED2 is red when turn on over temperature protection)**

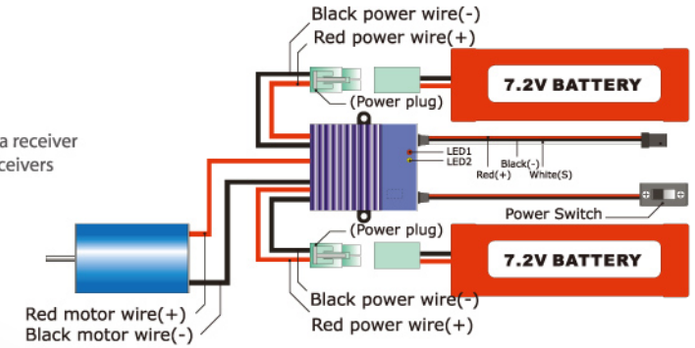
■ Warning

1.Avoid touching ESC heat sink or motor casing right after operation for not burning your body or skin.
2.To avoid poor contact or overheat melting of connector and power abnormal cut off be sure to always use berrer current rated connector & wires while replacing the original ESC connector or elongating the connecting wires.
3.Connect the battery pack just before driving, disconnect & take it out of the car immediately after termination. Don't solder ESC wires directly to battery.A proper connector is a must to be used in between.
4.Always make sure connecting the ESC to a proper power soerce that has the correct voleage & polarity.Incorrect voltages or reversed polarity will damage the ESC. Don't solder ESC wires directly to the battery. A proper connector is a must to be used in between.

This double power & motor ESC has used for double power at the same time.

■ ESC wiring diagrm

Receiver plug,plug into Ch2
Polarities only match with JR & Futaba receiver
Be careful to check for other brand receivers before plugging.



■ Test of throttle direction conincidence

1 Wiring ESC according to above diagram. → 2 Switch on the transmitter. → 3 ESC denotes a sound and starts setting neutral. → 4 Denoted by another confirmation sound after succeed in setting neutral.

Neutral→forward→backward

Refer to the left test sequence right above setting is completed.
Push the the throttle trigger forwards,quickly pull the throttle trigger backwards & hold it. If the system keeps braking, the throttle direction test is ok. Otherwise, if it drivers reversely, the throttle and ESC forward direction does not coincide with each other. Change the throttle reversing switch of the transmitter, turn off & then turn on the ESC power again will correct the problem.

Transmission on the LED light (yellow & red)

	Neutral	Forward	Full throttle	Barke	Full Braking	Backward	Full throttle
LED1	Yellow	Red blinking fast	Red	Red blinking Slowly	Red	Red blinking Slowly	Red
LED2	X	X	X	X	X	X	X

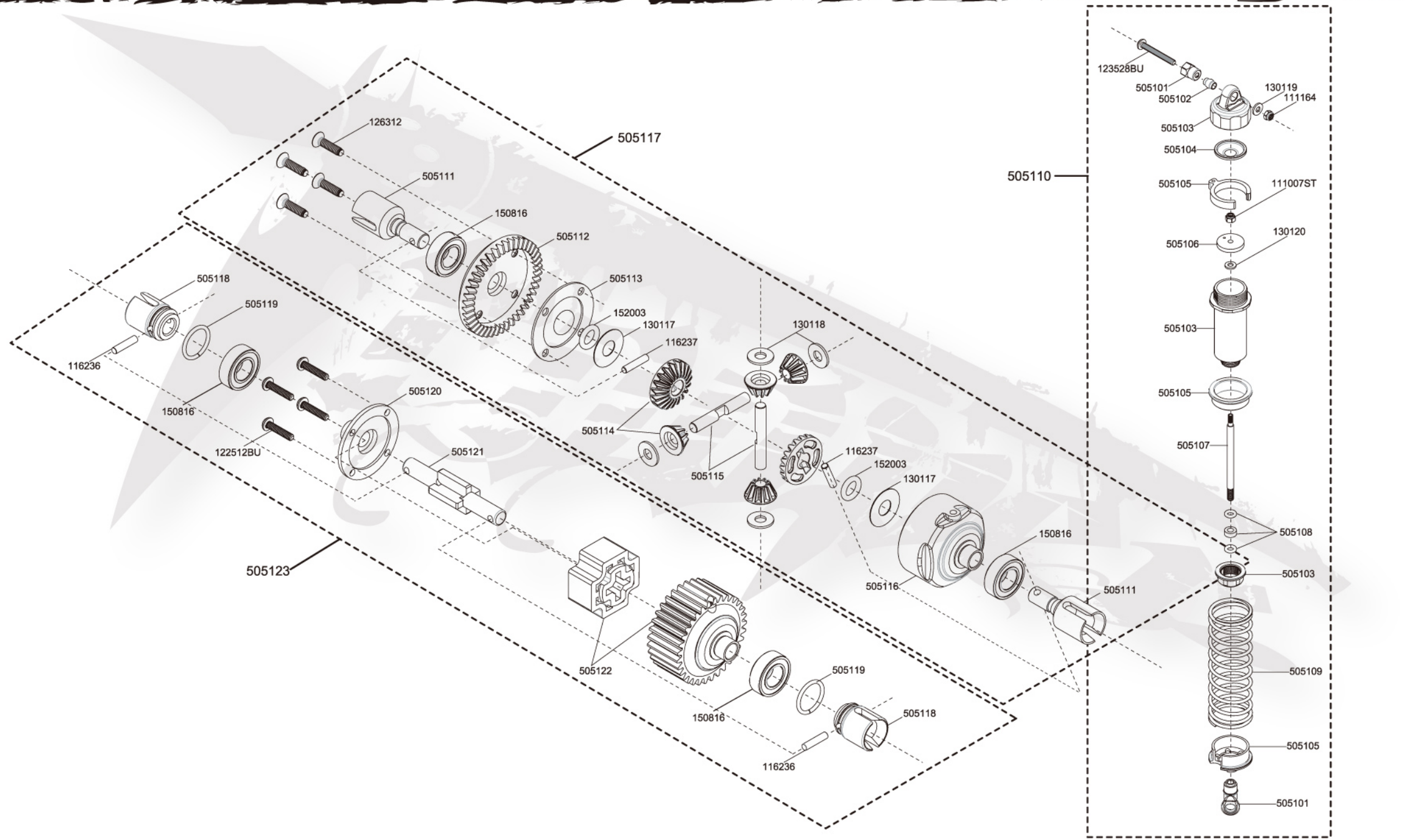
■ Safe gear ratio test

Input voltage	resistance	waste current
7.2V	0.18Ω	40A
11.1V	0.18Ω	61.6A

(V/R=1 7.2V/0.18Ω=40A)
(V/R=1 11.1V/0.18Ω=61.6A)

※Firstly, trial running starting with a small gear motor for 2~3 minutes, measure the temperatures of both Esc & motor. If both temperatures are close with each other, they are at good match. The gear ratio can then be properly adjusted to optimum according to the features of the courses. However, It's very important to always keep both temperatures under 100 °c, while adjusting the gear ratio. Otherwise the demagnetization of the motor will happen, the motor efficiency will drop dramatically & the temperature will also raise up very quickly. Most battery power is now wasted on heat nothing on motor efficiency.

※It`s ok to replace a higher gear ratio or a fast running motor while the temperature of the ESC is under 80 °c. But it should be done according to para 6 described, from small to bigger. Unless the running value of the original motor is very low enough, It should replace a motor with lower running value when the input battery voltage is changed to a higher level. The ESC will be burnt if the motor doesn't be properly changed while input voltage is changed. See example below on the current changed inside motor while input voltage is changed.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150816
505120
122512BU
505121
505114
505115
116237
152003
130117
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505116
505111
505122
505119
150816
505118
116236
123528BU
505101
505102
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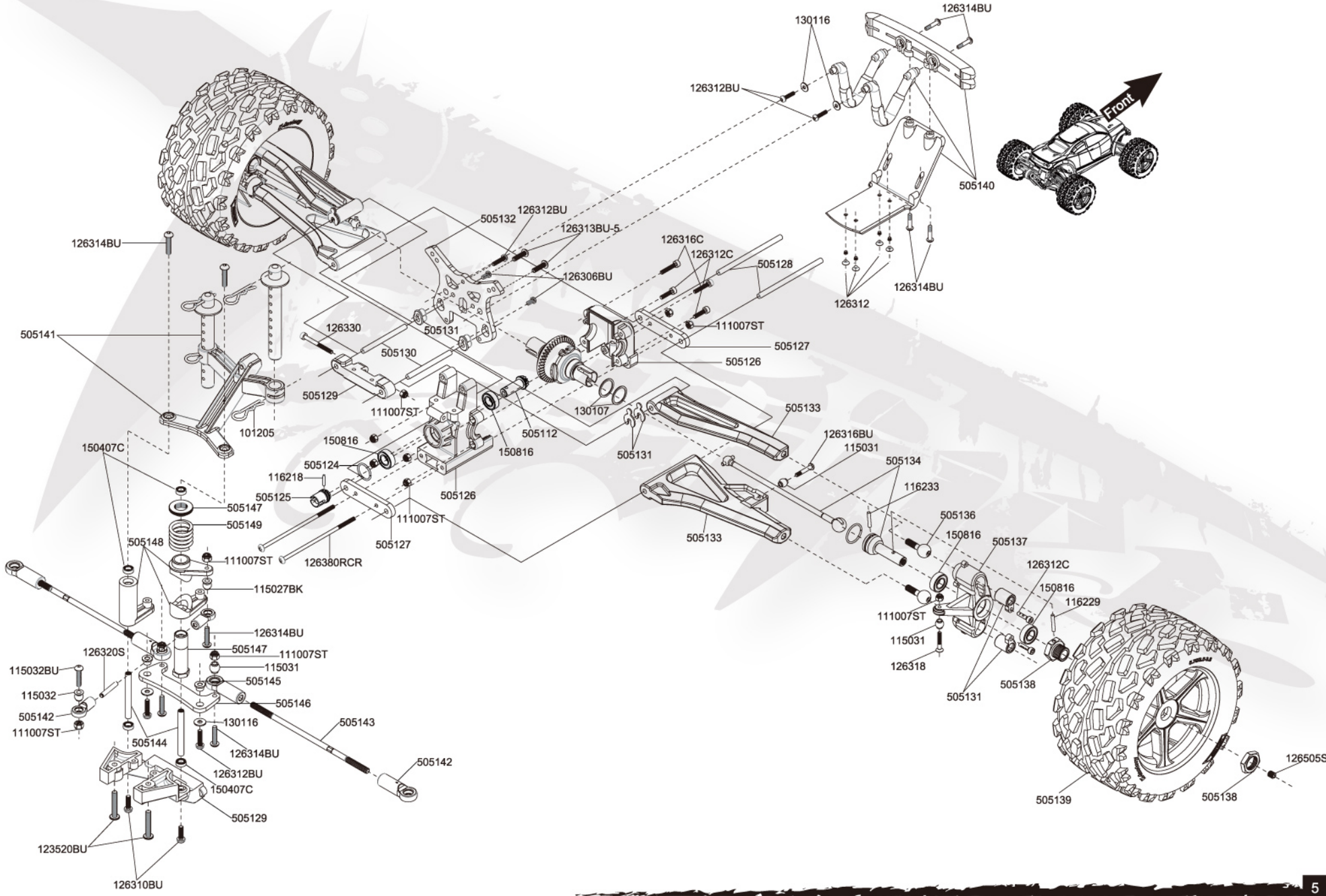
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Front
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126312
126314BU
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126330
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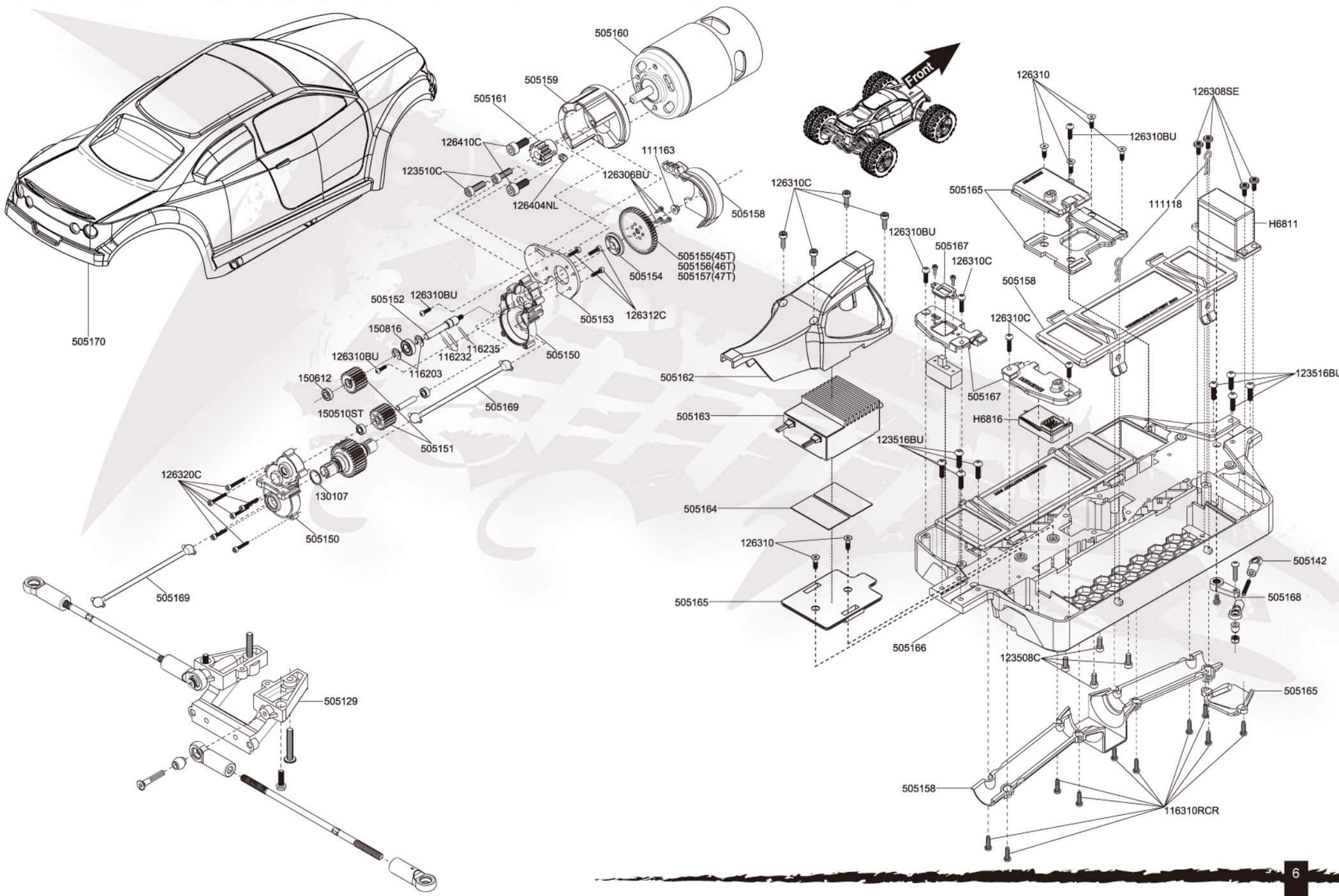
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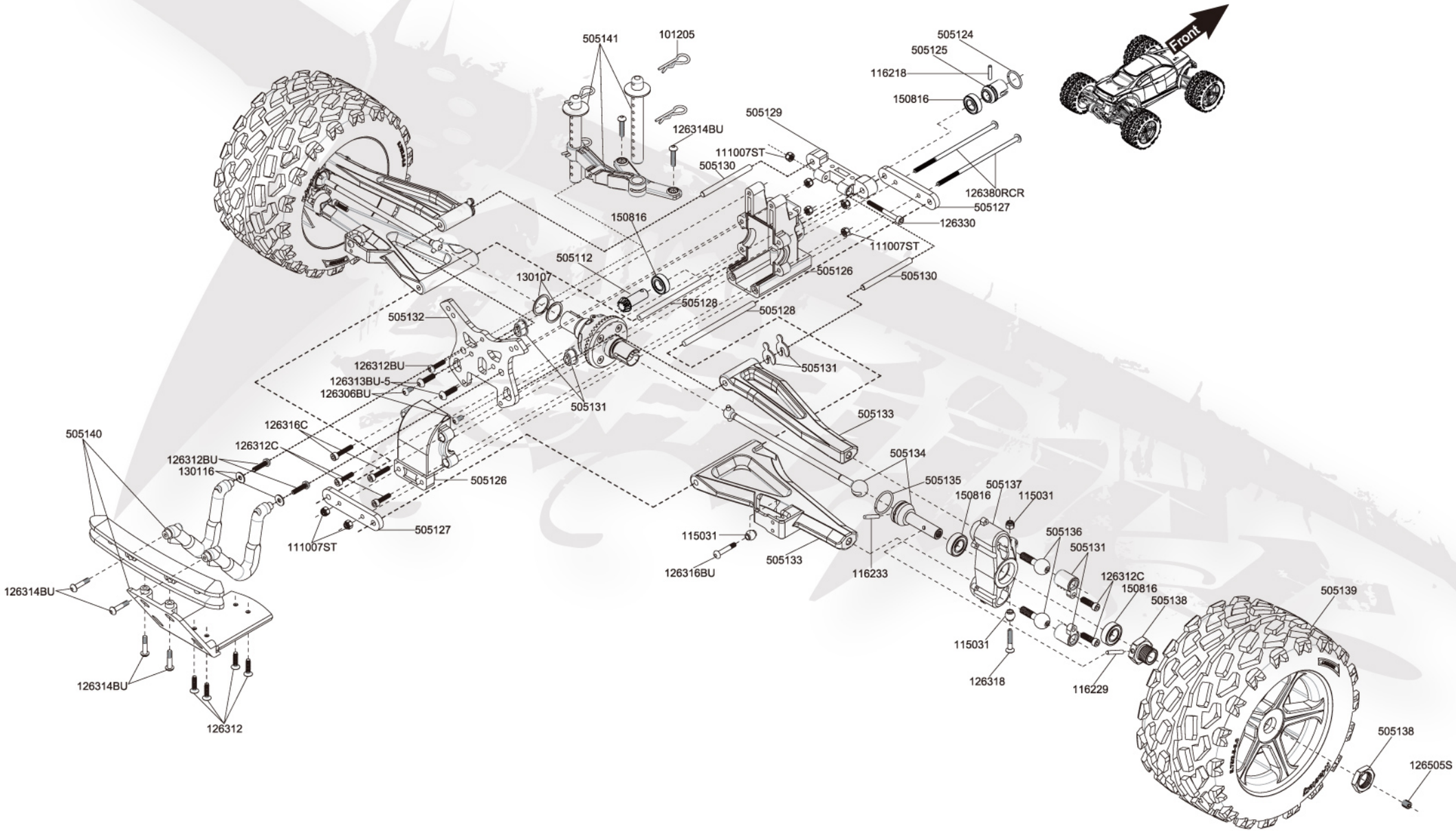
Front
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130116
505140
126314BU
126314BU
126312

PARTS

Item No.	Item Description
101205	R8 R-Clip (10)
111007ST	3mm Steel Locknut (10)
111118	R5 R-clip (10)
111163	4mm Lock Nut (10)
111164	3.5mm Lock Nut (10)
115013	Steering Servo Saver (Futaba)
115027BK	Ball End & 5.8mm Single Flanged Steel Ball (6) Black
115031	6.8mm Flanged Steel Ball (10)
115032	5.8mm Single Flanged Steel Ball (6)
116203	E-clip 5 (10)
116218	2.5x12.8mm Pin (10)
116229	2.5x16.8mm PIN(10)
116232	2x13.8mm Pin (10)
116233	2.5x14.8mm Pin (10)
116234	5x23.9mm Pin (10)
116235	2x14.8mm Pin (10)
116236	2.5x10.8mm Pin (10)
116237	2.5x11.8mm Pin (10)
116310RCR	3x10mm Steel RH TP Screw (cross) (6)
122512BU	M2.5X12mm BH Screw(10)
123510C	3.5x10mm Steel Cap Screw (6)
123516BU	3.5x16mm Steel BH Screw (6)
123520BU	3.5x20mm Steel BH Screw (6)
123528BU	3.5x28mm Steel BH Screw (6)
126303S	3x3mm Set Screw (6)
126306BU	3x6mm Steel Button Head Screw (6)
126308SE	3x8mm Steel Flat Round Servo Mount Screw (6)
126310BU	3x10mm Button Head Screw (6)
126310C	3x10mm Cap Screw (6)
126312	3x12mm Steel F.H. Screw (6)
126312BU	3x12mm Button Head Screw (6)
126312C	3x12mm Steel Cap Screw (6)
126313BU-5	3.5x13mm Button Head Screw (6)
126314BU	3x14mm Button Head Screw (6)
126316BU	M3X16mm BH Screw(10)
126316C	3x16mm Cap Screw (6)
126318	3x18mm Steel FH Screw (6)
126320C	3x20mm Cap Screw (6)
126320S	3x20m Set Screw (6)
126380RCR	3x80mm Steel RH Screw (cross) (6)
126330	3x30mm Cap Screw (6)
126404NL	4x4mm Thread Lock Set Screw (6)

PARTS

Item No.	Item Description
126410C	4x10mm Steel Cap Screw(6)
126505S	5x5mm Set Screw (6)
130107	13.2x15.9x0.5mm Shim (6)
130116	3.2x8x0.7 Washer (10)
130117	6.2x15x0.3 Washer (10)
130118	4.2x9.6x1mm Washer (10)
130119	3.6x8x1mm Washer (10)
130120	3x7x1mm Washer (10)
150407C	4X7X2.5mm collar(4)
150510ST	5x10x4mm Steel Bearing (4)
150612	6x12x4mm Bearing (4)
150816	8x16x5mm Dust-Resistant Bearing (4)
152003	O-RING P6(10)
505101	E6 Shock Pivot Ball Mount (4)
505102	E6 Shock Pivot Ball (4)
505103	E6 Shock Body (2)
505104	E6 Shock Bladder 17mm (4)
505105	E6 Shock Spring Holder
505106	E6 Shock Piston
505107	E6 Shock Shaft (2)
505108	E6 Shock O-Ring & Washer
505109	E6 Shock Spring (Red) (2)
505110	E6 Shock Absorber Set
505111	E6 F/R Differential Outdrive (2)
505112	E6 Bevel Gear -43T/11T
505113	E6 Differential Case Gasket (4)
505114	E6 Differential Bevel Gear Set (for 1 diff)
505115	E6 Differential Bevel Shaft (2)
505116	E6 Bevel Gear Case
505117	E6 Complete Differential Kit (F/R)
505118	E6 Center Solid Axle Outdriver (2)
505119	E6 C-Clip 10.8x1.1mm (4)
505120	E6 Center Gear Cover
505121	E6 Center Solid Axle
505122	E6 Center Gear (33T)
505123	E6 Complete Center Spool Kit
505124	E6 C-Clip 13x1.3mm (4)
505125	E6 Joints Outdriver (2)
505126	E6 Differential Box
505127	E6 Lower Arm Mount (2)
505128	E6 Lower Arm Hinge Pin 4x70mm (2)
505129	E6 Front/Rear Uppder Arm Hinge Pin Mount (4)
505130	E6 Upper Arm Hinge Pin 4x48mm (2)

PARTS

Item No.	Item Description
505131	E6 Nylon Adjuster & Pivot Ball Mount
505132	E6 Shock Tower
505133	E6 Arm Set
505134	E4 CVA Joints (2)
505135	E6 C-Clip 15x1.3mm (4)
505136	E6 Pivot Ball (11mm) (4)
505137	E6 Steering Block (2)
505138	E6 Wheel Adapter Set (2)
505139	E6 Mounted Tire (Pair)
505140	E6 Bumper Set
505141	E6 Body Post Set (F/R)
505142	E6 Ball Cup 5.8mm (10)
505143	E6 4x110mm Rod (2)
505144	E6 Servo Saver Inner Post
505145	E6 Steering Bushing
505146	E6 Steering Linkage Plate
505147	E6 Servo Saver Post
505148	E6 Servo Saver Nylon Parts
505149	E6 Servo Saver Spring
505150	E6 Reduction Gear Box
505151	E6 Reduction Gears
505152	E6 Spur Gear Shaft
505153	E6 Spur Gear Linkage Plate
505154	E6 Spur Gear Hub
505155	E6 Spur Gear-45T
505156	E6 Spur Gear-46T
505157	E6 Spur Gear-47T
505158	E6 Spur Gear, Battery , Driveshafts Cover
505159	E6 Motor Mount
505160	E6 775 Motor
505161	E6 Pinion Gear-12T
505162	E6 ESC Cover
505163	E6 775 ESC
505164	E6 Double Side Tape
505165	E6 ESC&Motor Mount , Front Nylon Cover
505166	E6 Chassis
505167	E6 Switch Mount and Rear Nylon Cover
505168	E6 Alum. Servo Arm (Futaba)
505169	E6 Center Universal Joint
505170	E6 Body Shell
H6811	H.A.R.D. HS3306 Steering Servo

THE POWER OF TEAM MAGIC

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MADE IN TAIWAN

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