

1/10TH SCALE ELECTRIC OFF-ROAD BUGGY / SHORT COURSE / DESERT BUGGY TRUCK / TRUGGY / MONSTER TRUCK HUMMER / RALLY CAR

SHORT COURSE

ITEM NO. E10SC
E10SCL



BUGGY

ITEM NO. E10XB
E10XBL



DESERT BUGGY

ITEM NO. E10DB
E10DBL



MONSTER TRUCK

ITEM NO. E10BP
E10BPL



TRUGGY

ITEM NO. E10XT
E10XTL



TRUCK

ITEM NO. E10MT
E10MTL



RALLY CAR

ITEM NO. E10XR
E10XRL



HUMMER

ITEM NO. E10HM
E10HML



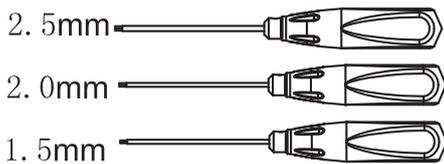
Before You Start Assembling

Thank you for purchasing our Ready To Run 1/10 scale electric off-road vehicle. This manual contains the basic methods of operation, assembly details, and related accessories. Operators less than 14 years of age need to be supervised by an adult. Please read all information in this manual before operation to avoid any damage or danger.

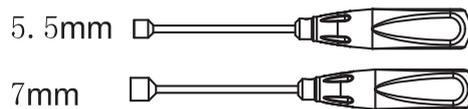
All operating instructions should be read before the use of this product. It contains important information for future reference. In addition, because we constantly update our products, some small physical features may change. Check our website for any update on changes.

Tools Needed

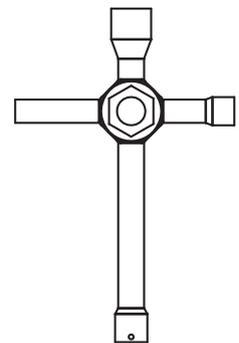
2.5 2.0 1.5 Allen key



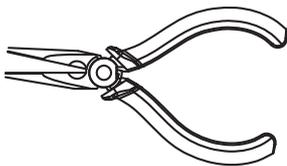
5.5 7Wrench



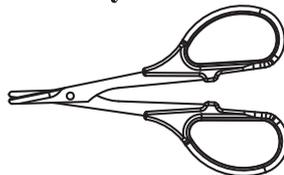
Cross Wrench(big)



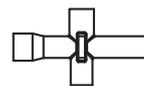
Needle Nose Plier



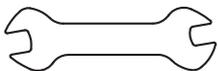
Hobby Scissors



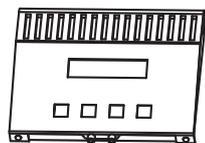
Cross Wrench(small)



5.5mm Open end wrench



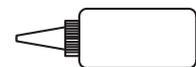
Charger



Reamer



Apply CA glue



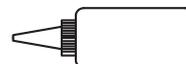
Grease



1.2V AA Battery



Silicone Oil



Safety Precautions

This is a high-quality radio control model. Pay attention at all times to insure careful operation. If care is not taken, loss of life and property may result. Children should not be allowed to operate in the absence of adult supervision. Operational errors, or the incorrect use of this product and important information included in this manual (which may result in the loss of life, severe injury or property damage), will be the responsibility of the owner.

-----This model is controlled by radio signals, which may be subject to outside interference beyond the control of vehicles radio system.

-----Therefore, keep within a safe distance to avoid accidents and away from motor vehicles and people.

-----Do not place or run on wet grass or in puddles because electronic equipment (servers, receivers and power transfer) is not waterproof. If you want to run in these areas the electronics must be waterproofed.

-----Do not drive if battery power is low!

-----Do not drive in poor conditions or vehicle damage may occur.

-----Be careful to comply with the instructions and warnings of other equipment used (charger and battery, etc.).

-----Put chemicals, metals, and electronic equipment out of the reach of children.

-----Only careful and cautious use of remote control cars can protect life and property from harm.

Warranties

Ask retailers for replacement or return for manufacturing defective or missing parts. There is no warranty against wear and tear caused by incorrect operation or use of incorrect parts.

Retailers are to provide technical assistance free of charge for beginners.

Operational Requirements

First, make sure batteries are fully charged. Check all connections and settings .

Install 4AA batteries in the remote, ensure that the batteries have full power, pay attention to positive and negative polarity, and do not install in the wrong direction.

The remote control system has a variety of different functions and settings. Before initial use, ensure that all functions and settings have been fully understood.

DIGITAL PROPORTIONAL SYSTEM

2.4GHZ MT-301

System Specifications

Transmitter

Model: MT-301TX

Output Power: <100mW

Operating Voltage: 4.8 or 6V

Power Supply: 4 Cell Alkaline/Ni-Cd/Ni-MH

Frequency/Modulation Type: 2.4GHz FHSS

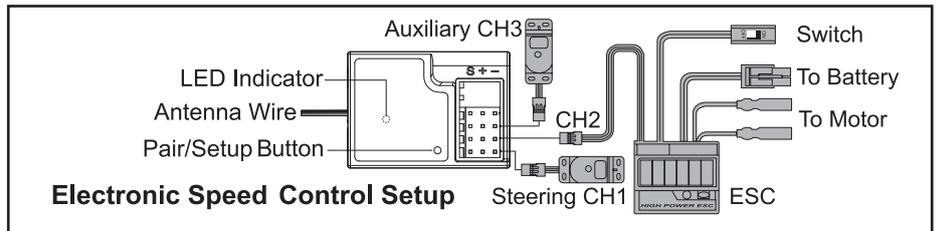
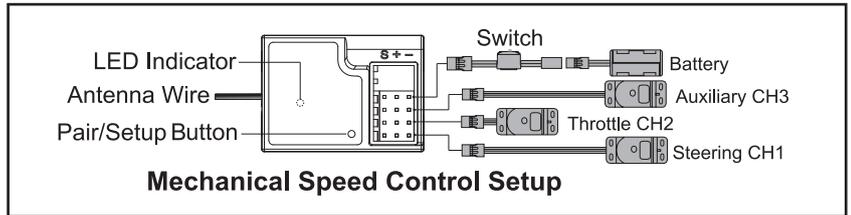
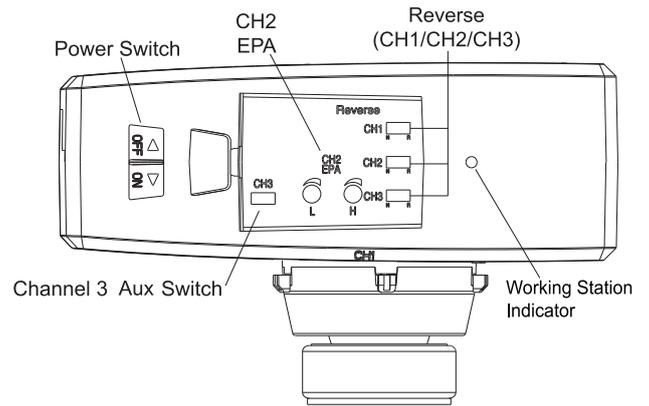
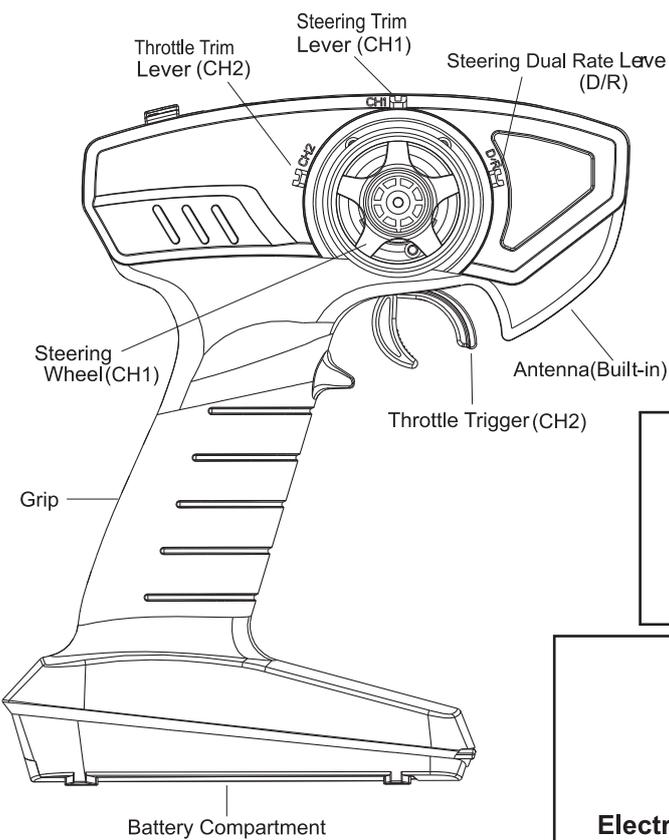
Receiver

Model: MT-301RX

Frequency: 2.4GHz FHSS

Operating Voltage: 6.0~8.4V(Alkaline/Ni-Cd/Ni-MH)
7.4~11.1V(Li-poly3S)

Fail Safe: Yes (All Channels)



Installing the Transmitter Batteries



Open the battery holding tray. Insert 4 AA batteries into the marked spaces. Please note the correct direction of the batteries.

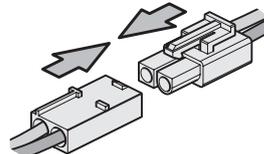


Incorrect battery insertion could damage the transmitter. This 2.4Ghz transmitter has an internal Antenna.

Installing the battery pack

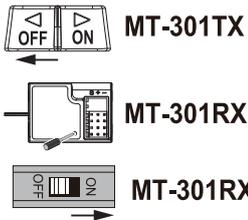


You need to insert the battery pack in the open section for the battery. Use the chassis cut-out for corner wiring if needed. Use the straps provided to secure the battery in place.

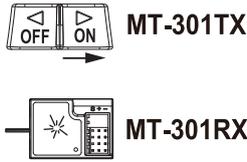


Once fastened and secured please connect the battery plug into the speed controller plug noting correct polarity. Red to red, black to black.

MT-301TX & MT-301RX Bind



Power off the transmitter. Press and hold the binding button on the receiver, in the meantime, turn the receiver on, the LED flashes quickly, loosen the button.

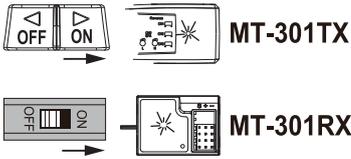


Turn the transmitter on, it will bind with the receiver automatically. If the LED indicator on the receiver becomes and stays continuously lit, the binding is successfully setup.

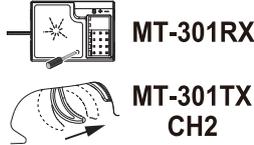
! The receiver can only receive the signals transmitted by the transmitter once they are in successfully binding. Generally the two of them have been paired before leaving the factory, please check before use. If not, users can setup the binding according to the following steps.

! If the LED light is flashing or OFF, the setup failed. Please shorten the distance between the transmitter and the receiver, bind again. Long binding distance can cause setup failure, so please do not keep the receiver far away from the transmitter.

Fail-Safe setup procedure



Turn on the power switches of both the transmitter and receiver, the LED indicator lights should both be on.

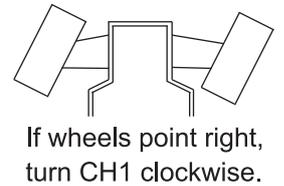
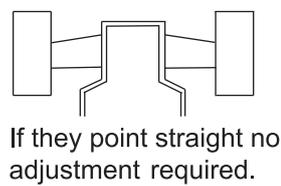
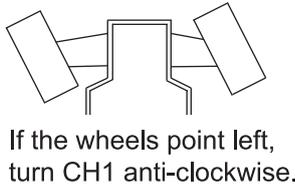
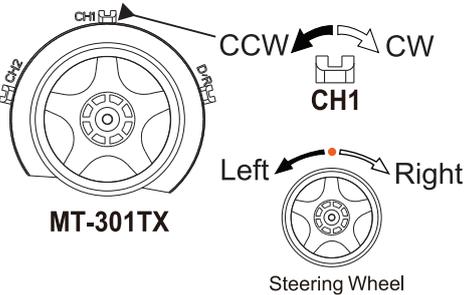


Press and hold the receiver setup button for 2 seconds, the LED rapid flash, in 5 seconds, put CH2 in the brake condition and hold it until the LED continuously lit.

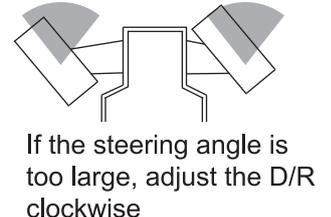
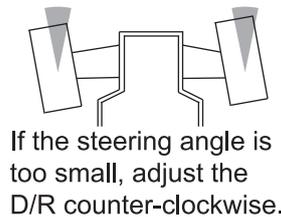
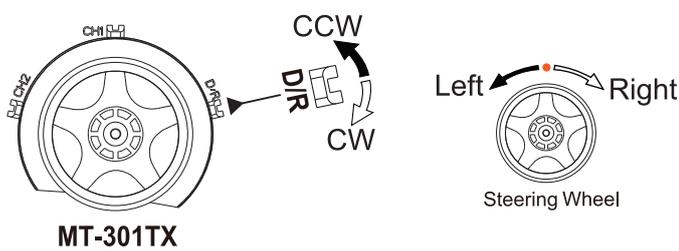
! Please note transmitter must be paired with receiver before setting up the S/F mode. The model car has been preset at a F/S mode to be automatically braked after running out of control. Check before use whether the the F/S mode still works. If not, follow these steps to reset.

! Any new binding of the transmitter and receiver should clear the preset fail-safe.

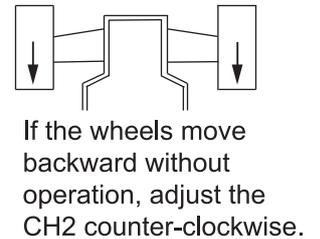
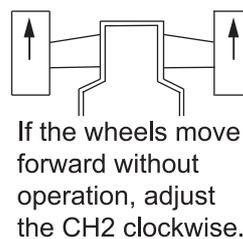
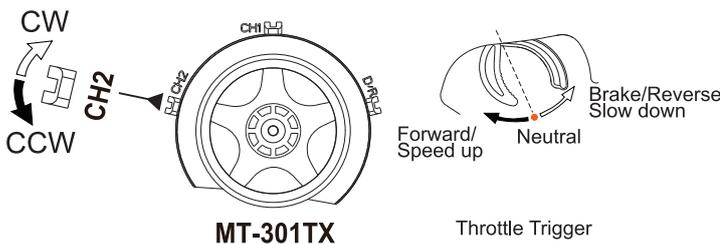
CH1(Steering)Trim



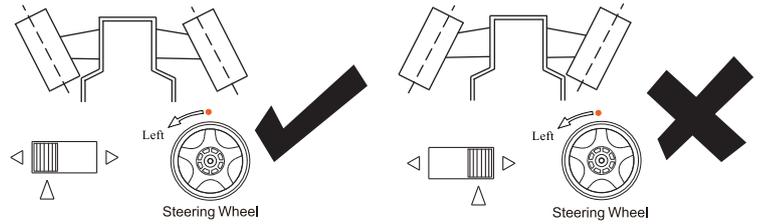
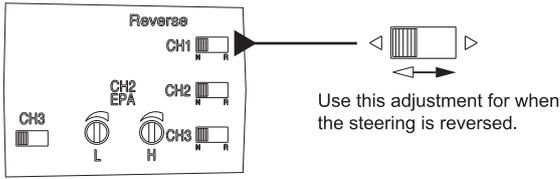
CH1(Steering Dual-Rate)D/R



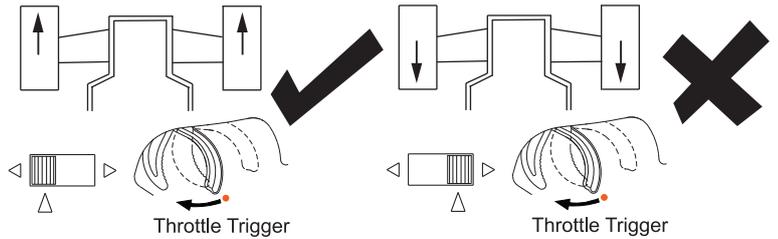
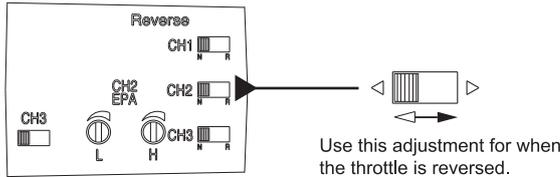
CH2(Throttle trim)D/R



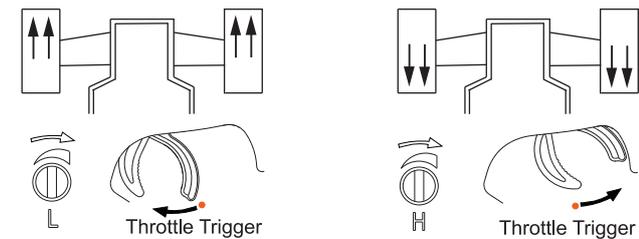
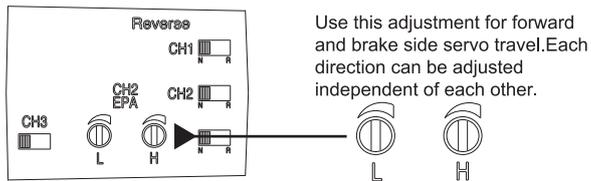
CH1(Steering Reverse)



CH2(Throttle Reverse)



CH2(Throttle end point)



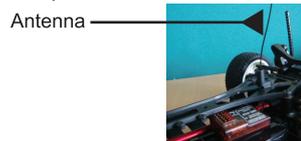
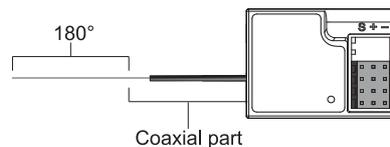
Receiver's antenna installation

The wave length of the 2.4GHz is much shorter than that of the conventional frequencies, it is very susceptible to loss of signal which results in a receiving error.

To obtain the best results, please refer to the following instructions;

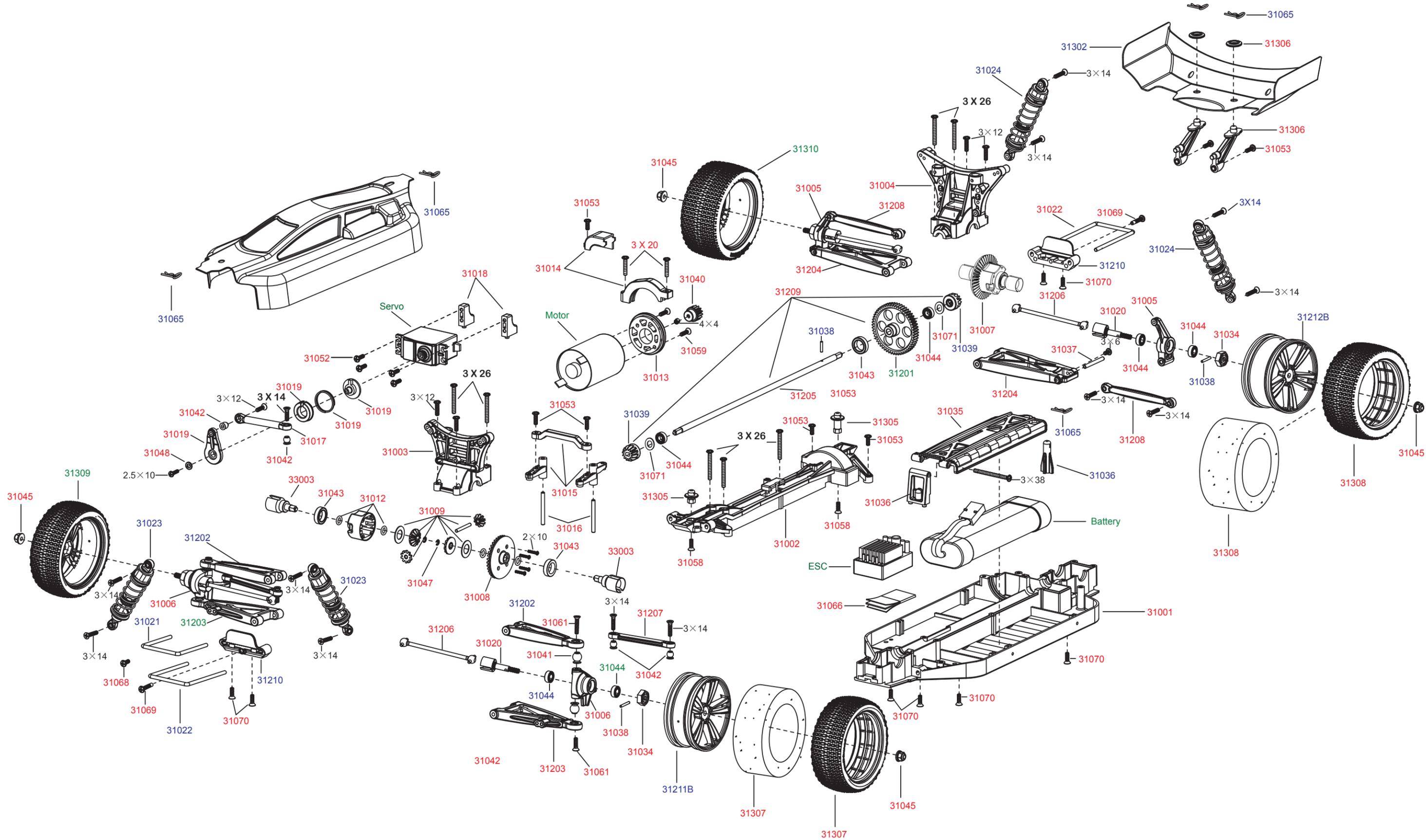
- 1.The antenna must be kept as straight as possible. Otherwise it will reduce the effective range.
- 2.The antenna should be perpendicular to the model. Larger models can have large metal objects that can attenuate the RF signal. In this case the antennas should be placed at sides of the model. Then the best RF signal condition is obtained at any attitude.
- 3.The antennas must be kept away from conductive materials, such as metal and carbon by at least a half inch. The coaxial part of the antennas does not need to follow these guidelines, but do not bend it in a small radius.
- 4.Keep the antennas away from the motor, ESC, and other noise sources as much as possible.

*The main purpose of the photo demonstrates how the antenna should be placed. For actual installation the receiver must be wrapped with a sponge or placed with floating material to protect it from vibration.

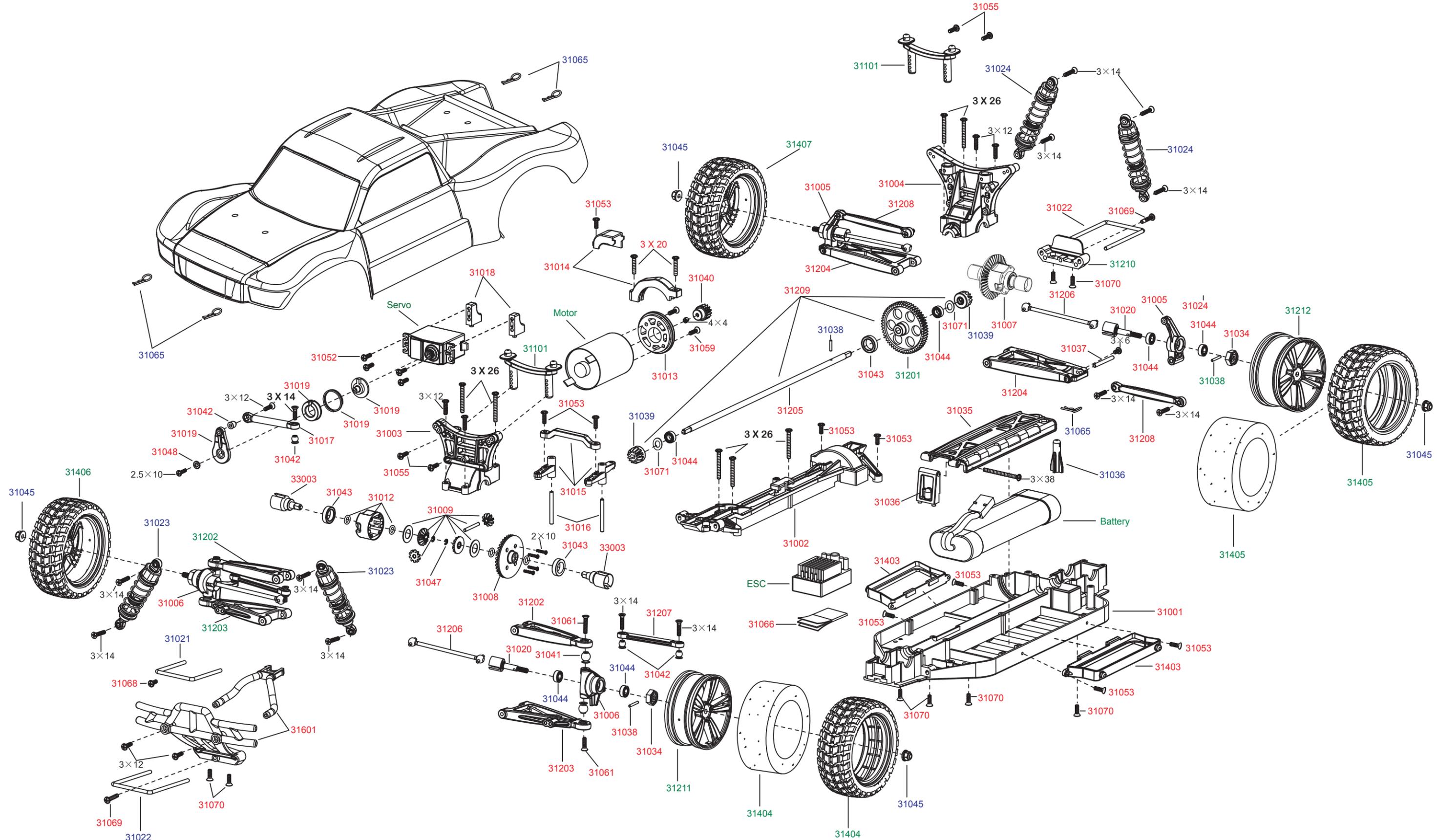


The receiver contains precision electronic parts. It is the most delicate radio component on-board the model and should be protected from vibration, shock and temperature extremes. To protect the receiver, wrap it in R/C foam rubber or other vibration-absorbing material. If appropriate, waterproof the receiver by placing it in a plastic bag and closing the open end with a rubber band before wrapping it in foam. If moisture enters the receiver, intermittent operation or a failure may result. Wrapping the receiver in a plastic bag also protects it from fuel and exhaust residue which, in some models, can work its way into the model.

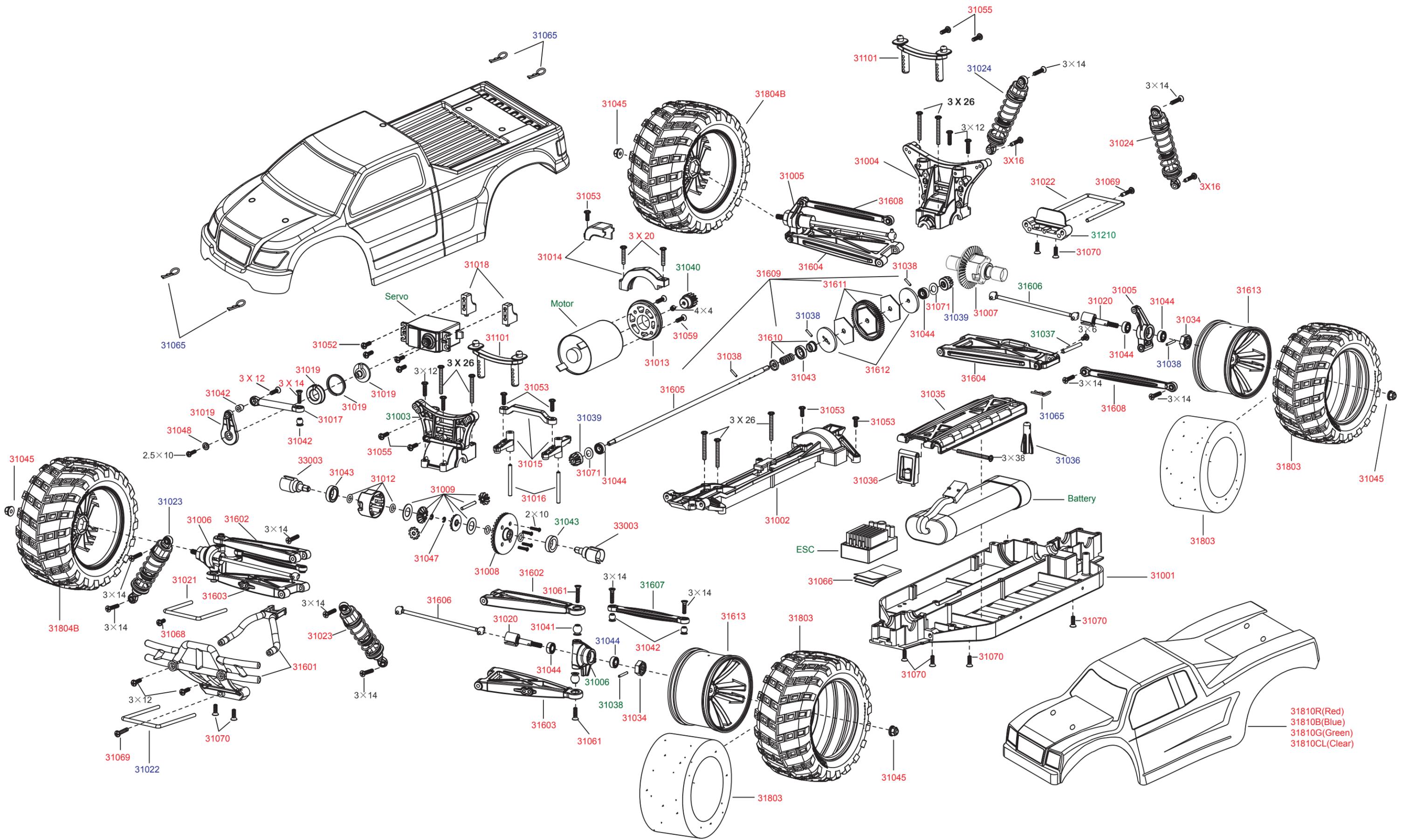
Explode Diagram of the Buggy



Explode Diagram of the Short Course Truck

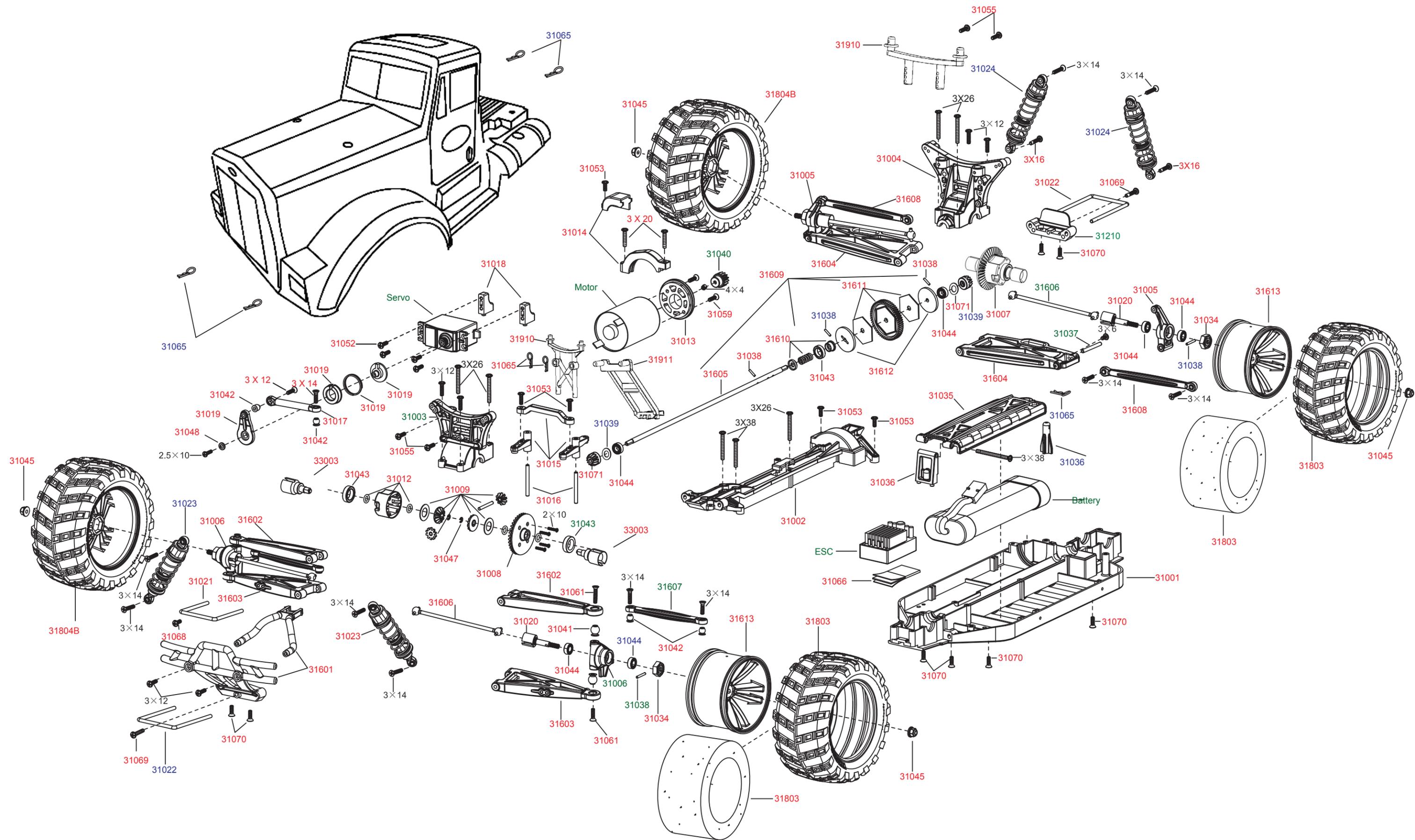


Explode Diagram of the Truck

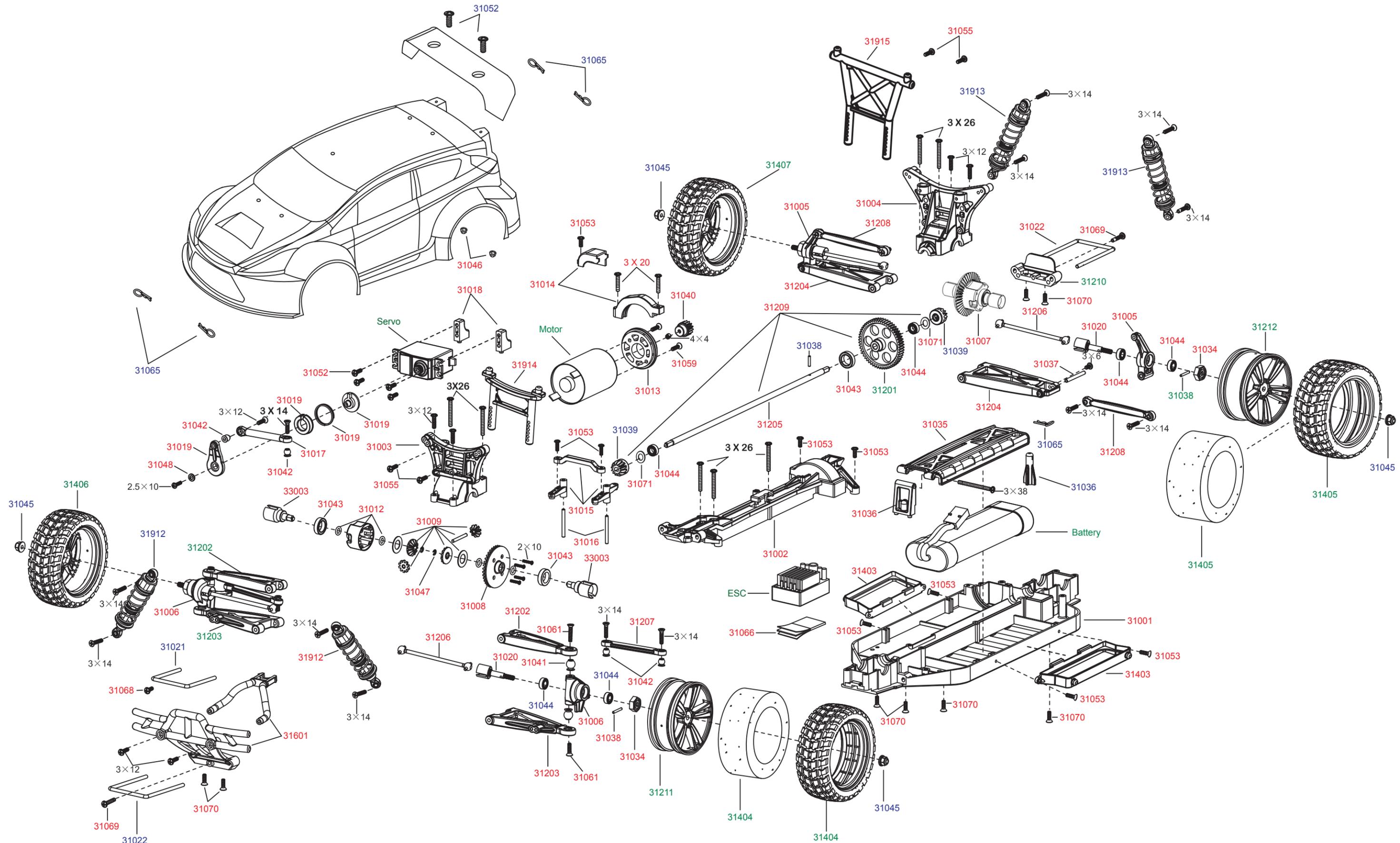


31810R(Red)
31810B(Blue)
31810G(Green)
31810CL(Clear)

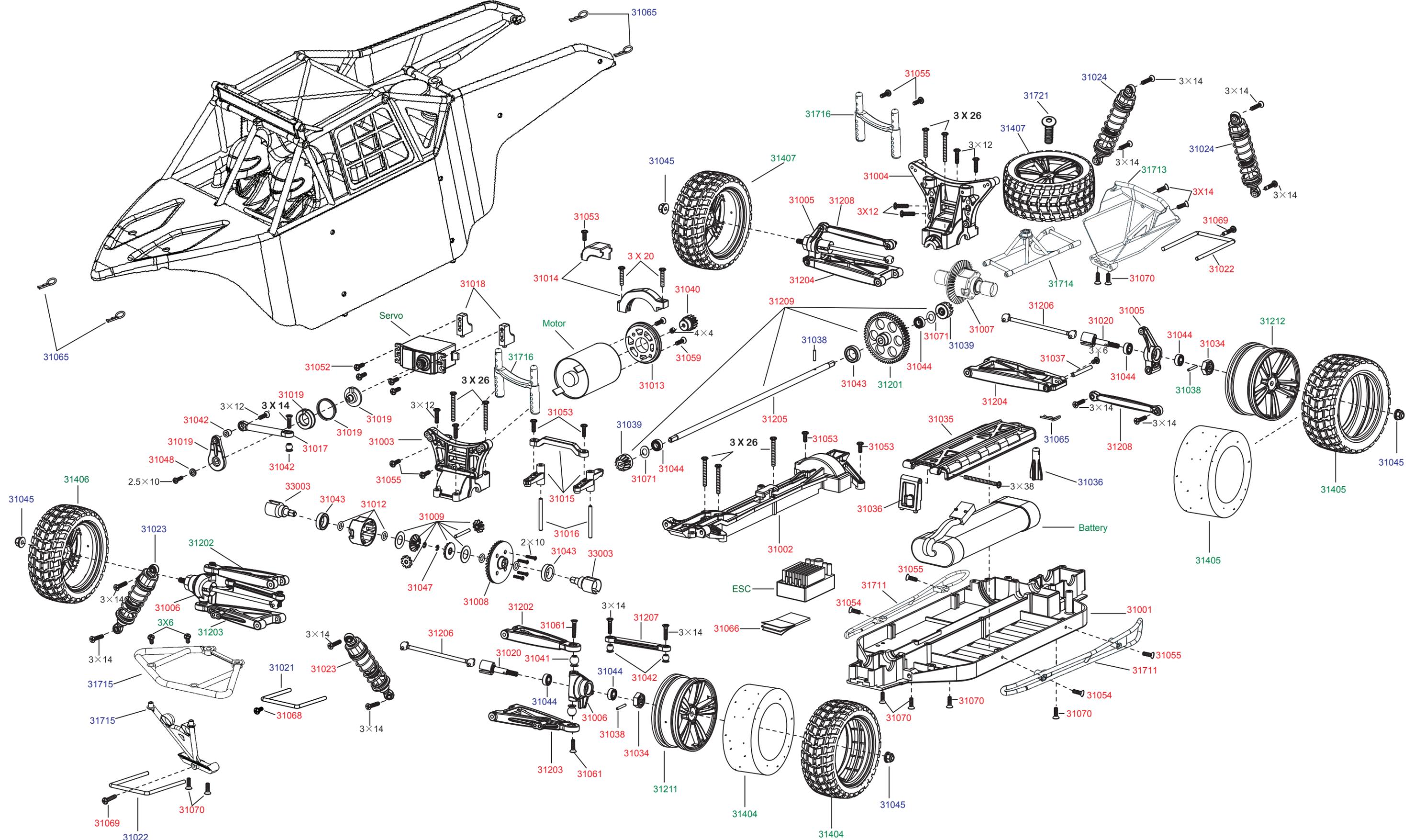
Explode Diagram of Monster Truck



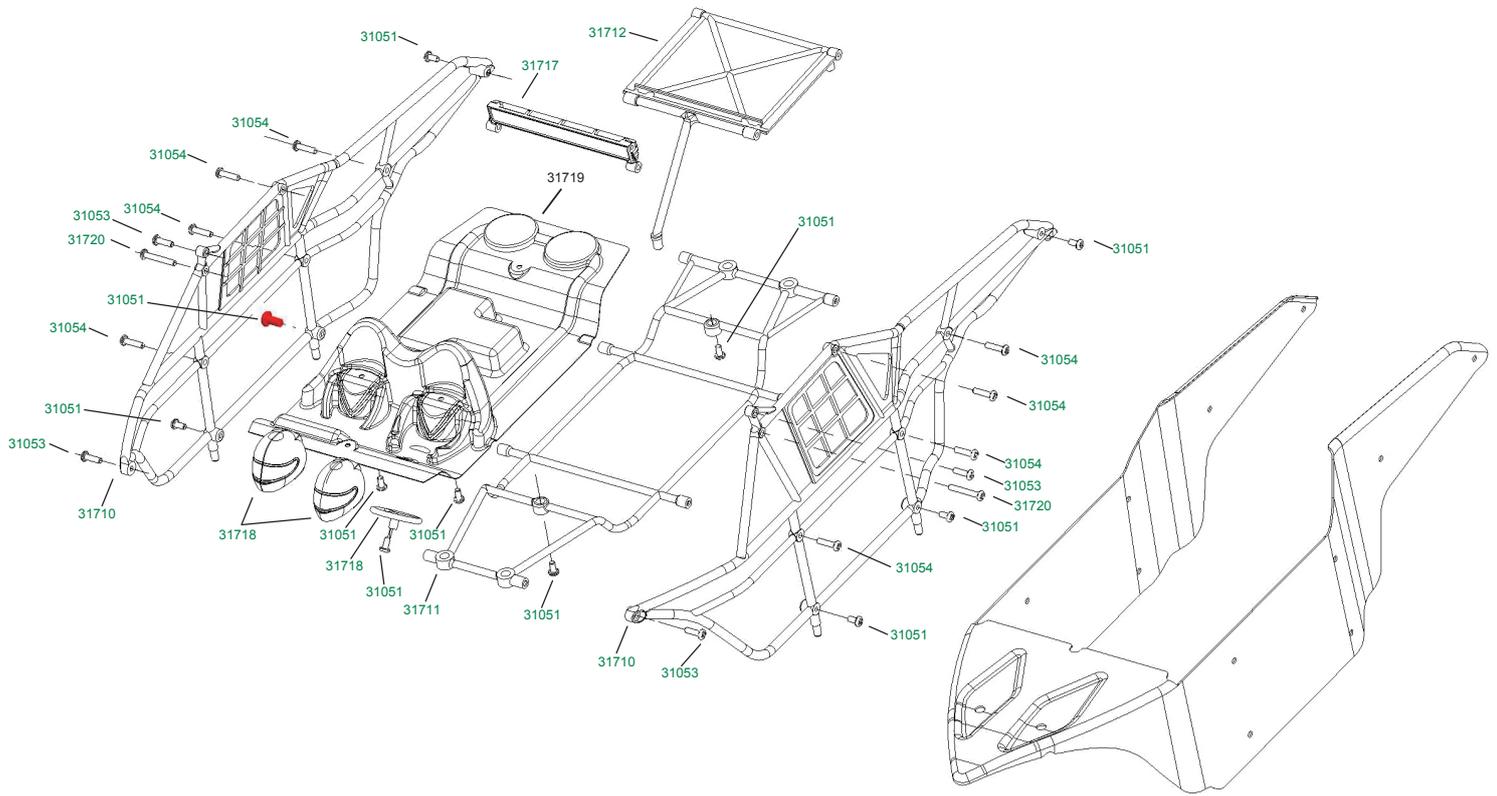
Explode Diagram of the Rally Car



Explode Diagram of the Desert Buggy



Explode Diagram of the Desert Buggy



Service and Maintenance

In order not to void car warranty, always keep your buggy clean. In areas of high dust and dirt, be sure to blow off dirt and dust with a compressor, soft bristle brush, or toothbrush.

Always check car for loose or broken parts and replace before and after running.

Regularly check screws to make sure that they are tight.

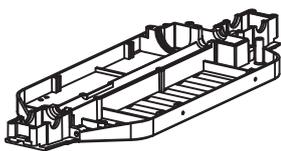
Replacement parts are available at many local retailers or online stores. Feel free to contact retailers for help in replacing parts.

SPECIFICATIONS

Model	Code	Length	Width	Height	Wheelbase	Wheel Dia.	Wheel Width	Gear Ratio
BUGGY	E10XB	409mm	256mm	139mm	288mm	85mm	254mm	9.6
TRUCK	E10MT	422mm	335mm	163mm	296mm	116mm	332mm	11.7
TRUGGY	E10XT	432mm	330mm	144mm	296mm	106mm	329mm	10.9
SHORT COURSE	E10SC	453mm	256mm	144mm	288mm	90mm	254mm	10.2
MONSTER TRUCK	E10BP	440mm	335mm	260mm	296mm	116mm	332mm	11.7
DESERT BUGGY	E10DB	500mm	256mm	190mm	288mm	90mm	254mm	10.2
HUMMER	E10HM	420mm	253mm	180mm	288mm	90mm	254mm	10.2
RALLY CAR	E10XR	520mm	260mm	175mm	288mm	90mm	254mm	10.2

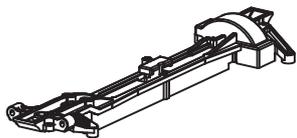
STANDARD PARTS LIST

31001



Chassis

31002



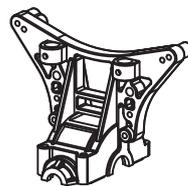
Upper Deck

31003



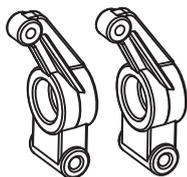
Front Shock Tower

31004



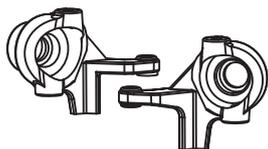
Rear Shock Tower

31005



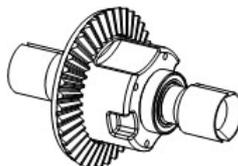
Rear Hub

31006



Knuckle Arms

31007



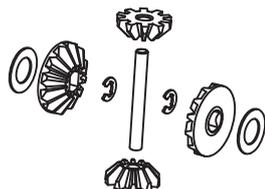
F/R Differential Gear

31008



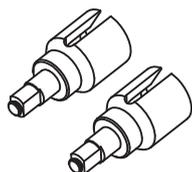
Differential Crown Gear 38T and Sealing

31009



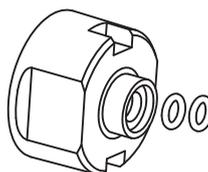
Differential Bevel Gear

33003



Differential Outdrives

31012



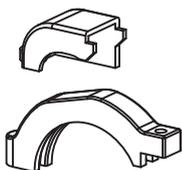
Differential Case and Sealing

31013



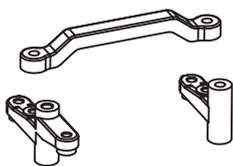
Motor Mount

31014



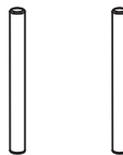
Motor Support Mount

31015



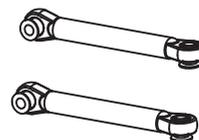
Front Servo Saver Arm

31016



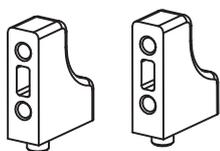
Steering Shaft

31017



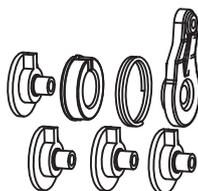
Servo Steering Linkage

31018



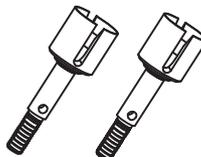
Servo Mounts

31019



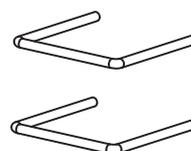
Servo Savers

31020



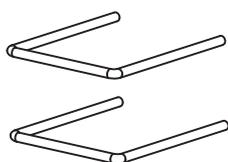
Wheel Axle

31021



Upper Hinge Pin

31022



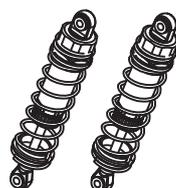
Lower Hinge Pin

31023



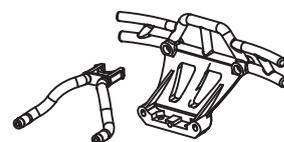
Front Shock Absorber
(Not Suitable for XR)

31024



Rear Shock Absorbers
(Not Suitable for XR)

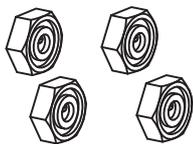
31601



Bumper
(Not Suitable for Desert Buggy/Buggy)

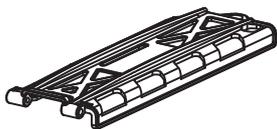
STANDARD PARTS LIST

31034



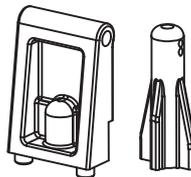
Wheel Nuts

31035



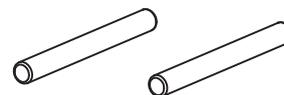
Battery Tray

31036



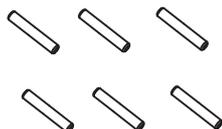
Battery Posts

31037



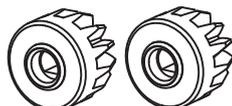
Lower Hinge Pin

31038



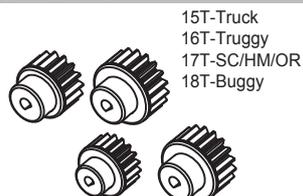
Pins 2X10

31039



Differential Pinion Gear

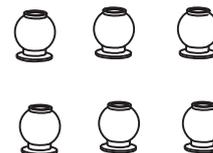
31040



Nylon Pinion Gears
15T,16T,17T,18T

15T-Truck
16T-Truggy
17T-SC/HM/OR
18T-Buggy

31041



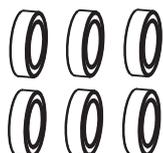
Ball Head (8.0mm)

31042



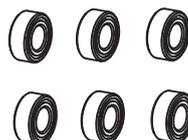
Ball Head (5.80mm)

31043



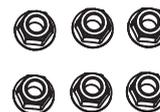
Ball Bearings 15X10X4

31044



Ball Bearings 10X5X4

31045



Lock Nuts M4

31046



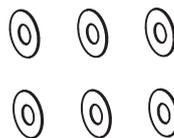
Lock Nuts M3

31047



E-Clips 2.5

31048



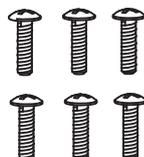
Shims 7.9X3.3X0.5

31049



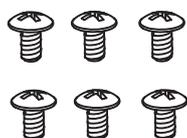
Button Head Screws 2X10

31050



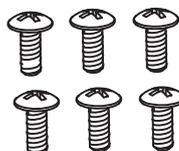
Button Head Screws 2.5X10

31051



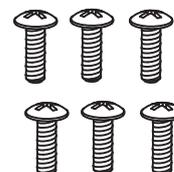
Button Head Screws 3X6

31052



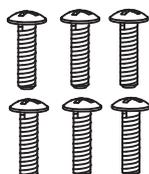
Button Head Screws 3X8

31053



Button Head Screws 3X10

31054



Button Head Screws 3X12

31055



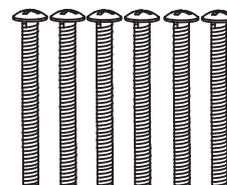
Button Head Screws 3X16

31056



Button Head Screws 3X26

31057



Button Head Screws 3X38

STANDARD PARTS LIST

31058



Flat Head Screws 3X8

31059



Flat Head Screws 3X12

31060



Flat Head Screws 3X14

31061



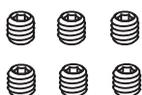
Flat Head Screws 3X16

31062



Grub Screws M3X3

31063



Grub Screws M4X4

31064



Plastic Cable Ties

31065



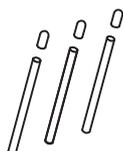
Body Clips

31066



Foam Double Side Tape

31067



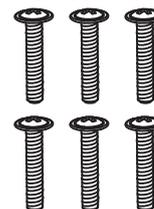
Antenna Pipe

31068



Cap Head Screws 3X8 6P

31069



Cap Head Screws 3X16 6P

31070



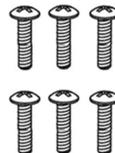
Flat Head Screws 3X10 6P

31071



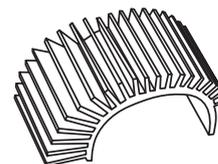
Shims 9 X 5.1 X 0.8

31720



Button Head Screw 3X20

03300



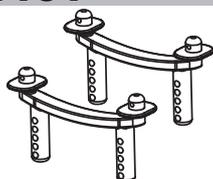
Motor Heat Proof Cover

31210



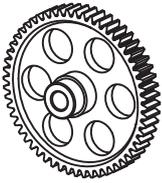
Susp Hinge Pin Holder
(Not Suitable for Desert Buggy)

31101



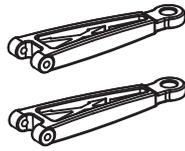
Body Mount for Trucks
(Not Suitable for DB/XB/HM/XR/BP)

31201



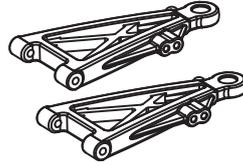
Main Gear 56T

31202



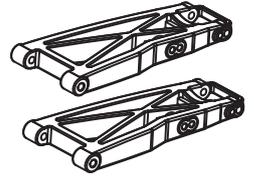
Front Upper Susp Arm

31203



Front Lower Susp Arm

31204



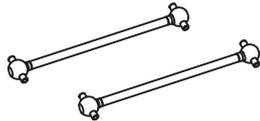
Rear Lower Susp Arm

31205



Alum Center Driveshaft

31206



Dogbone (77.3mm)

31207



Steering Linkage

31208



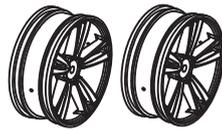
Rear Upper Linkage

31209



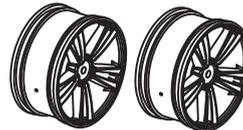
Center Driveshaft Complete with Gear

31211



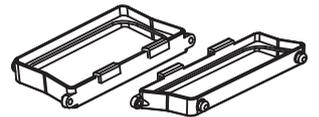
Front Wheel

31212



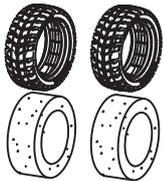
Rear Wheel

31403



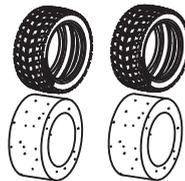
Side Body Mounts for SC, HM, XR

31404



Front Tires for SC, DB, HM, XR

31405



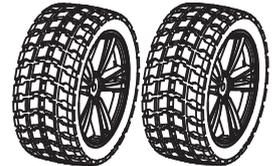
Rear Tires for SC, DB, HM, XR

31406



Front Tires and Rims for SC, DB, HM, XR

31407



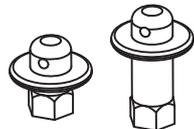
Rear Tires and Rims for SC, DB, HM, XR

31302



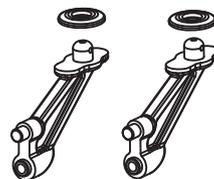
Wing for Buggy

31305



Buggy Body Mount

31306



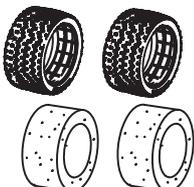
Buggy Wing Support

31307



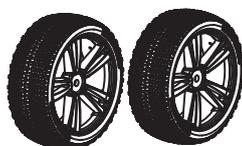
Buggy Front Tires

31308



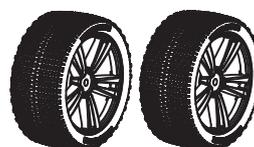
Buggy Rear Tires

31309



Front Tires and Rims For Buggy

31310



Rear Tires and Rims For Buggy

DESERT BUGGY

31700



Desert Buggy Body(Blue)

31701



Desert Buggy Body(Red)

31702



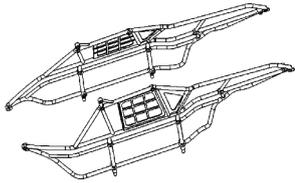
Desert Buggy Body(Clear)

31703



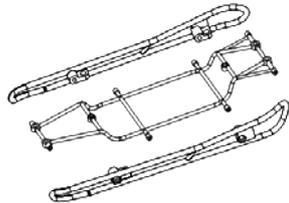
Desert Buggy Body(Plain Red)

31710



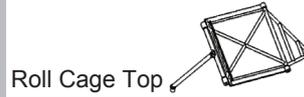
Side Roll Cage L&R

31711



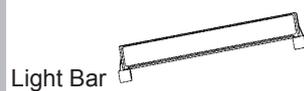
Roll Cage Center and Side Rails

31712



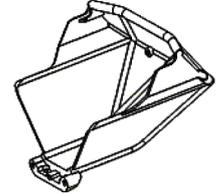
Roll Cage Top

31717



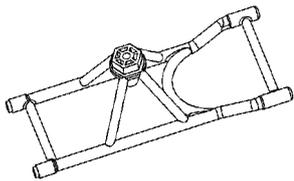
Light Bar

31713



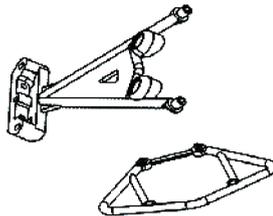
Rear Pod

31714



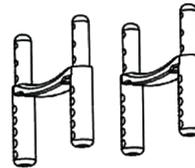
Roll Cage Rear Holder

31715



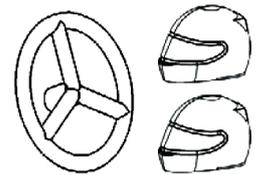
Roll Cage Front Bumper with Brace

31716



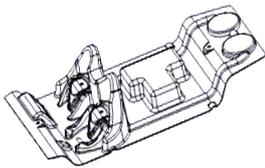
Body Post

31718



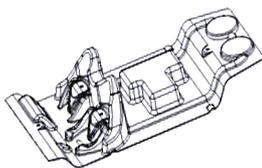
Driver Helmet and Steering Wheel Set

31719BK



Cockpit(Black)

31719BL



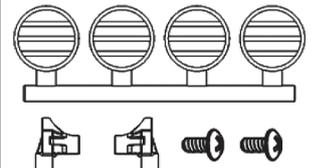
Cockpit(Blue)

31721



Flat Head Screw 4X20

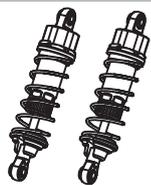
31722B



Optional LCD Light Set (Black)

HUMMER, RALLY CAR

31912



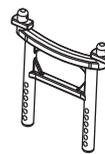
Front Shock Absorber (XR Only)

31913



Rear Shock Absorbers (XR Only)

31914



Front Body Post (HM/XR Only)

31915



Rear Body Post (HM/XR Only)

31916B



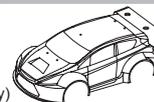
Hummer Body (Blue)

31916GD



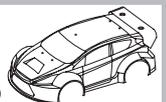
Hummer Body (Gold)

31920G



Rally Car Body (Grey)

31920B



Rally Car Body (Blue)

31916GY



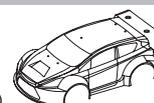
Hummer Body (Grey)

31916CL



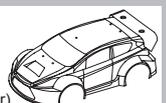
Hummer Body (Clear)

31920R



Rally Car Body (Red)

31920CL



Rally Car Body (Clear)

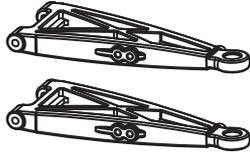
TRUGGY, TRUCK, MONSTER TRUCK

31602



Front Upper Susp Arm

31603



Front Lower Susp Arm

31604



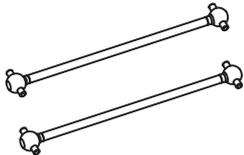
Rear Lower Susp Arm

31605



Alum Center Driveshaft

31606



Dogbone (97.2mm)

31607



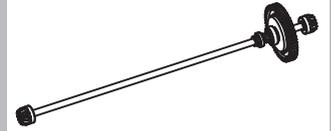
Steering Linkage

31608



Rear Upper Linkage

31609



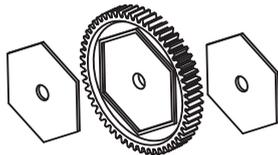
Slipper Clutch Complete with Gear

31610



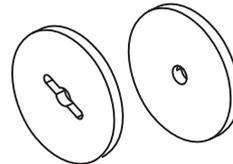
Spring Mount

31611



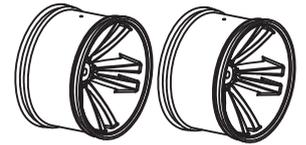
Main Gear 56T and Slipperpads

31612



Slipper Plates

31613



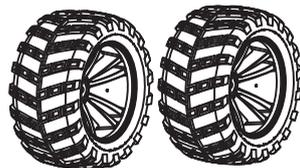
Wheels

31803



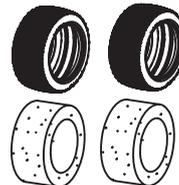
Tires for Truck/Monster truck

31804



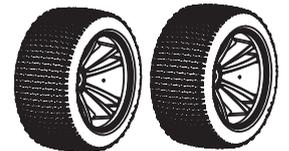
Tires and Wheels for Truck/Monster truck

31503



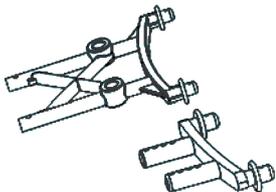
Tires for Truggy

31504



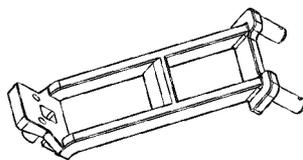
Tires and Wheels for Truggy

31910



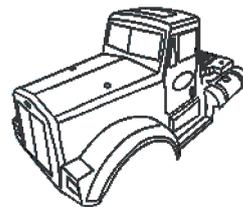
Body Post F&R (Monster truck)

31911



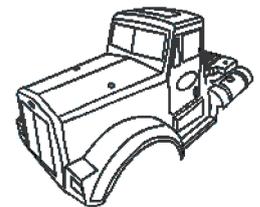
Front Brace (Monster truck)

31900



Monster truck Body (Blue)

31901



Monster truck Body (Red)

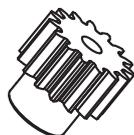
OPTIONAL GEAR

11170



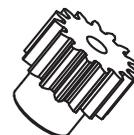
0.8 Module Copper Motor Gear (15T)

11171



0.8 Module Copper Motor Gear (16T)

11177



0.8 Module Copper Motor Gear (17T)

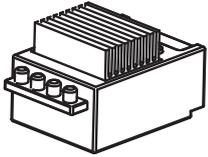
11178



0.8 Module Copper Motor Gear (18T)

ELECTRONICS

03018



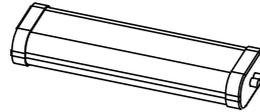
Must Match 03014
High power ESC w/Tamya Plug

03014



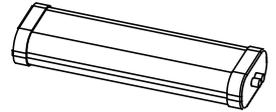
Must Match 03018
Battery Pack w/Tamya Plug
(7.2V, 2000mAH)

03014B



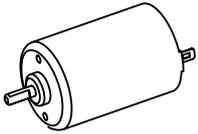
Battery Pack w/Banana Plug
(7.2V, 2000mAH)

03019B



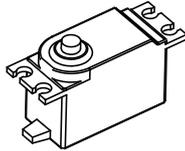
Battery Pack w/Banana Plug
(7.2V, 3000mAH) (Optional)

03016



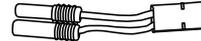
RC550 Motor

SERVO6KG



6KG Servo Unit

2601



Power Connector
Tamya Plug to Banana Plug

1030



Power Connector
Tamya Plug to T-Plug

E020

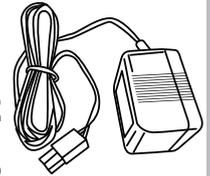
US Standard

E021
EU Standard

E022
AU Standard

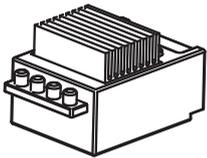
E023
UK Standard

NI-MH Battery Charger



ELECTRONICS FOR BRUSHLESS VERSION

E199



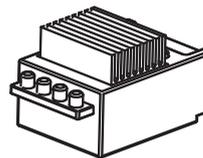
Must Match LP7420
Brushless ESC w/Banana Plug

LP7420



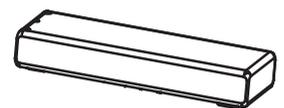
Must Match E199
Li-Po Battery w/Banana Plug
(7.4 V 2000mAh 2S 25C)

E199T



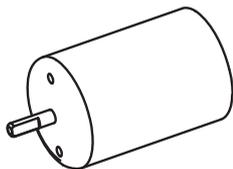
Must Match LP7420T
Brushless ESC w/T-Plug

LP7420T



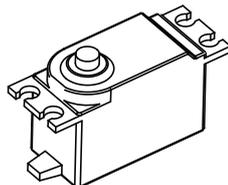
Must Match E199T
Li-Po Battery w/T-Plug
(7.4 V 2000mAh 2S 25C)

E028



Brushless Motor

SERVO6KG



6KG Servo Unit

LiPo Charger



A3AU Standard
A3EU Standard
A3US Standard
A3UK Standard

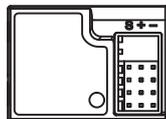
TRANSMITTER & RECEIVER

MT-301TX



2.4 Ghz Transmitter

MT-301RX



2.4GHz Receiver

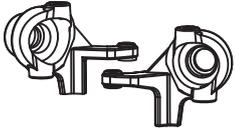
MT-301



2.4 Ghz Radio Set

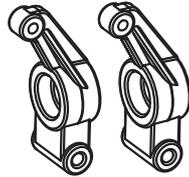
OPTIONAL STANDARD PARTS

33001



Alum Knucle Arm

33002



Alum Rear Hub

33005



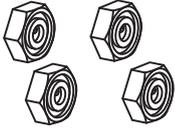
Alum Front Shock Absorber

33006



Alum Rear Shock Absorber

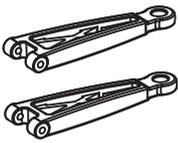
33009



Alum Wheel Hub

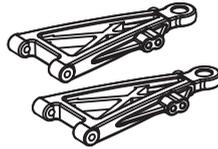
OPTIONAL PARTS SC, XB, DB, HM, XR

33201



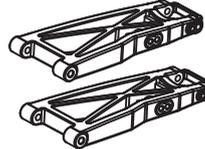
Alum Front Upper Susp Arm

33202



Alum Front Lower Susp Arm

33203



Alum Rear Lower Susp Arm

33204



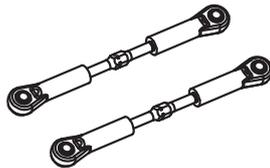
F/R Universal Shaft

33205



Alum Steering Linkage

33206



Alum Rear Upper Linkage

E10MST-S1

E10 Upgrade Set(SC, XB, DB, HM, XR)

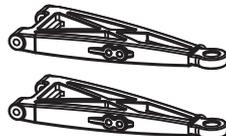
OPTIONAL PARTS TRUGGY, TRUCK, MONSTER TRUCK

33601



Alum Front Upper Susp Arm

33602



Alum Front Lower Susp Arm

33603



Alum Rear Lower Susp Arm

33604



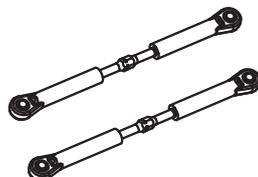
F/R Universal Shaft

33605



Alum Steering Linkage

33606



Alum Rear Upper Linkage

E10MST-S2

E10 Upgrade Set(Truggy, Truck, Monster Truck)

31300



Buggy Body (Blue)

31400



Short Course Body (Blue)

31800



Truck Body (Blue)

31500



Truggy Body (Blue)

31301



Buggy Body (Red)

31401



Short Course Body (Red)

31801



Truck Body (Red)

31501



Truggy Body (Red)

31311



Buggy Body (Green)

31408



Short Course Body (Green)

31805



Truck Body (Green)

31505



Truggy Body (Green)

31312



Buggy Body (Blue)

31409



Short Course Body (Blue)

31806



Truck Body (Blue)

31506



Truggy Body (Blue)

31313



Buggy Body (Black)

31410



Short Course Body (Black)

31807



Truck Body (Black)

31507



Truggy Body (Black)

31303



Transparent Buggy Body

31402



Transparent Short Course Body

31802



Transparent Truck Body

31502



Transparent Truggy Body

**1/10TH SCALE
ELECTRIC OFF-ROAD
BUGGY/SHORT COURSE
TRUCK/DESERT BUGGY
TRUGGY/MONSTER TRUCK
HUMMER/RALLY CAR**