用户使用说明书

User's Instruction Manual

Model #:8136 Model #:8137

1:10 Scale 4WD Monster Truck
(Brushed & Brushless Versions)

Introduction

Thank you for choosing **DHK's R/C** model! This model is designed in thorough research and assembled with utmost craftsmanship. This high performance 1:10 scale 4WD monster truck can run very fast. It is easy to drive and it uses quality parts to achieve its best performance. With proper and regular maintenance, you will enjoy a lot of fun and joy when you drive this R/C kit.

Before you drive this model, kindly take some time to read through this instruction manual for a better and safer operation. This instruction aims to provide a general guideline for end-users. Kindly note that a good understanding of the model, its relevant parts and other accessories packed in the consumer box will enable you to have fun when driving. Meanwhile, users are recommended to conduct regular maintenance for high performance and durability. Failure to do so might shorten the lifespan of the model. If you come across any problems or need any support, please contact us. We will always be very happy to assist you.

Before you operate this R/C kit, kindly make sure that you understand the following.

1.Make sure that all screws and nuts are tightened securely.
2.Make sure that the battery(ries) are fresh or fully charged so the model won't lose control.
3.Do not drive the model in the following places/areas to avoid injury of people and damage to the public property.
  i.On public streets or in parks, causing injury or death of pedestrians, young children, animals and pets.
  ii.On highways, leading to accidents or damage of the model.
  iii.In water, resulting in damage to electronic components and parts, or direct failure of the model.

Drive your model in open areas.

4. Check all signals and electronic parts are working properly.

After driving, battery(ries), ESC, and motor can be very hot. Please do not touch them with bare hands.

⚠ Warning:
This high performance R/C kit can run very fast. It is designed and produced for people of 14+ years of age to operate. Players under this age should be guided by adult supervision. Entry level players should seek guidance and supervision from experienced model players. Players are responsible for any/all accidental occurrences (human or animal injury, damage to property and possessions, breakage of the model itself) due to improper operation of this model.

Brushed Truck Model Specifications
Length: 455mm(17.9”) (incl. F/R bumpers)
Width: 366mm(14.4”)
Height: 225mm(8.8”) (incl. body shell)
Wheelbase: 290mm(11.4”)
Front track/rear track: 293mm/298mm(11.5”/11.7”)
Tire size: Φ122*68mm(Φ4.8”/2.7”)
Wheel size: Φ72*48mm(Φ2.8”/1.9”)
Ground clearance: 74mm(2.9”)
Gear ratio: 10.97:1
Steering servo: 6kg

Brushless Truck Model Specifications
Length: 455mm(17.9”) (incl. F/R bumpers)
Width: 366mm(14.4”)
Height: 225mm(8.8”) (incl. body shell)
Wheelbase: 290mm(11.4”)
Front track/rear track: 293mm/298mm(11.5”/11.7”)
Tire size: Φ122*68mm(Φ4.8”/2.7”)
Wheel size: Φ72*48mm(Φ2.8”/1.9”)
Ground clearance: 76mm(3.0”)
Gear ratio: 15.19:1
Steering servo: 6kg

Radio System
A 2-channel radio system is required for the model. This includes 2.4GHz transmitter and receiver. Please refer to 2.4GHz Transmitter Manual.

Battery and ESC information for brushed truck
The brushed truck comes with a 7-cell 8.4V SC type NiMh battery. The battery is with T-connector, so does the battery charger. Besides, the ESC also has a T-connector to match it on the battery.

Below you may find the features and specifications of the high voltage ESC.

High Voltage ESC (Part# H126)

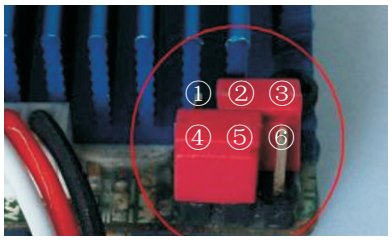
Features
1. Auto search throttle neutral point.
2. HF drive system
3. Over-heat protection (90C°)
4. Lipo battery low-voltage protection (2S Lipo-6.6V cutoff, 3S Lipo-9.9V shut down)
5. Low internal resistance & big capacity PCB board, providing great resistance to high current.
6. Forward, brake and reverse functions, good for both vehicles and boats.

Specifications
Forward current: 380A
Reverse current: 190A
Brake current: 250A
Voltage range: 4.8V-12.6V
PWM frequency: 1.5KHz
BEC voltage: 5V/2A

Operation
To obtain forward, brake and reverse functions and to switch battery types, kindly refer to the

following Skipping Needles Matrix for detail. This matrix provides clear information for operation.

Skipping Needles Matrix



Needles placement and corresponding functions

Needles	Functions
1, 2	Forward, brake, reverse
2, 3	Forward, brake, no reverse
4, 5	Lipo battery
5, 6	NiMh battery

Constant voltage: 7.4V Direction: CCW

At no load	At stall (extrapolated)	At maximum efficiency	At maximum power output
Speed: 20700 RPM	Torque: 2365.7 gf-cm	Efficiency: 66.2%	Output: 125.63 Watts
Current: 2.70 AMPS	Current: 72.02 AMPS	Torque: 378.5 gf-cm	Torque: 1182.9 gf-cm
		Speed: 17388 RPM	Speed: 10350 RPM
		Current: 13.79 AMPS	Current: 37.36 AMPS
		Output: 67.50 Watts	

The brushless truck comes with a 7.4V 2S Lipo battery. It runs over 80A brushless ESC. Please refer to the ESC information below.

Brushless electric motor (For brushless truck)

Motor 3650 KV(RPM):	3970
Power:	21.0V
Empty load current:	2.0A (10V)
Resistance(Ω):	11Ω
Length (including motor shaft):	70mm
Diameter:	36mm
Weight :	170g
Shaft diameter:	3.175mm

Note: When the motor temperature is over 120℃（248℉）, please add a fan over the motor for better ventlation. Please refer to the parts list foroptional part motor cooling fan and heat sink.

Servo (For both trucks)

Features:	6kg
Gears:	Plastic gears, ball bearings
Working voltage:	4.8-6.0V
Speed (seconds/60°):	0.18-0.16 sec/60°
Torque:	6kg/cm
Net weight:	40g
Size(LxWxH):	40.8*20.1*38mm

Parts List

Part No.	Description
8381-102	Diff outdrive/pins (Φ2*10mm)
8381-103	Pins(Φ2*10mm) (16 pcs)
8381-104	Flathead screw-coarse thread(KB2.6*10mm) (16 pcs)
8381-106	Diff case set/diff case cover/gasket
8381-107	Washer-A/B (8 pcs each)
8381-108	Gear-18T (2 pcs)/gear-12T (4 pcs)
8381-109	O Ring(Φ8*Φ2mm) (16 pcs)
8381-110	Ball bearing(Φ10*Φ15*4mm) (2 pcs)
8381-111	Diff pins(Φ4*25.8mm) (4 pcs)
8381-113	Flathead screw(KM2.6X6mm) (16 pcs)
8381-114	Ball bearing(Φ8*Φ14*4mm) (2 pcs)
8381-115	Pins(Φ2*8mm) (16 pcs)
8381-116	Pinion gear outdrive/pins(Φ2*8mm)
8381-117	Ball bearing(Φ5*Φ11*4mm) (2 pcs)
8381-118	Diff gear case cover-F/R
8381-119	B head screw-coarse thread(BB3*16mm) (16 pcs)
8136-200	Assembly of reduction gearbox
8136-201	Reduction connecting axle/pins (Φ2*10mm)
8136-202	E-type clamping spring(4 pcs)
8136-203	Reduction mounting plate A/B
8131-204	Spur gear-53T(plastic) (2 pcs)
8131-205	Center diff outdrive/lock nut(M4*4mm)
8381-204	Set screws (M4*4mm) (16 pcs)
8136-300	Shock absorber complete (2 pcs)
8136-302	Shock spring (4 pcs)
8381-305	Shock ball (8 pcs)
8381-306	M3 nylon nut (8 pcs)
8381-309	Shock shaft (4 pcs)
8381-50L	Assembly of upper sus.arm-Left
8381-50R	Assembly of upper sus.arm-Right
8381-501	Upper sus.arm ball (4 pcs)
8381-502	Upper sus.arm/rod end (2 sets)
8381-503	Upper sus.arm linkage (2 pcs)
8136-600	Servo saver assembly-complete
8131-601	Servo saver spring (4 pcs)
8131-602	Steering plate
8382-601	Servo saver sus. Arm-upper/lower/steering sus. Arm
8381-601	Brass washer (4 pcs)
8381-602	Servo saver bushing/adjustment ring
8381-605	B head screw-coarse thread(BB3*12mm) (16 pcs)
8381-606	Screw bushing (16 pcs)

Part No.	Description
8381-608	Shaft (2 pcs)
8136-6Z0	Assembly of steering linkage (2 pcs)
8136-6Z1	Steering linkage (2 pcs)
8381-6Z2	Plastic rod end (8 pcs)
8381-6Z3	Double way ball end (8 pcs)
8381-701	Upper sus.arm mount-rear/suspension mount
8381-702	B head screw-coarse thread(BB3*14mm) (16 pcs)
8381-703	B head screw-coarse thread(BB3*10mm) (16 pcs)
8381-706	Lower sus.arm-front (2 pcs)
8381-707	Drive shaft set/revolving shaft (2 sets)
8381-710	Ball bearing(Φ6*Φ12*4mm) (2 pcs)
8381-714	C-hub (2 pcs)
8381-717	Shock tower (2 pcs)
8381-718	Pivot ball mount (4 pcs)
8381-719	Upper sus.arm shaft (4 pcs)
8381-721	Lower sus.arm plate-front
8381-723	C-hub screw bushing (16 pcs)
8381-724	T head screw(TM4*12mm) (16 pcs)
8381-725	T head screw(TM4*22mm) (16 pcs)
8381-726	B head screw-coarse thread(BB3*18mm) (16 pcs)
8381-727	B head screw(BM3*56mm) (8 pcs)
8381-728	B head screw(BM3*43mm) (8 pcs)
8382-703	Body post holder/body post
8382-705	B head screw(BM3*24mm) (16 pcs)
8135-701	Wheel axle (2 pcs)
8135-702	Steering arm (2 pcs)
8135-703	Hex adapter (4 pcs)
8135-704	Set screws-M4 (4 pcs)
8382-702	Front bumper/upper sus.arm mount-front
8381-801	Lower sus.arm-rear (2 pcs)
8381-802	Rear hub-L/R
8381-803	B head screw(BM3*18mm) (16 pcs)
8381-805	B head screw(BM3*10mm) (16 pcs)
8381-807	Pin-A(Φ1.5mm) (16 pcs)
8136-9M1	Motor moun
8381-9S1	Servo mount
8381-9S4	Servo arm-D (2 pcs)
8131-9S2	B head screw(BM2.6*6mm) (12 pcs)
8381-9Z0	Assembly of steering tie rod
8381-9Z1	Steering tie rod (2 pcs)
8136-001	Chassis

Parts List

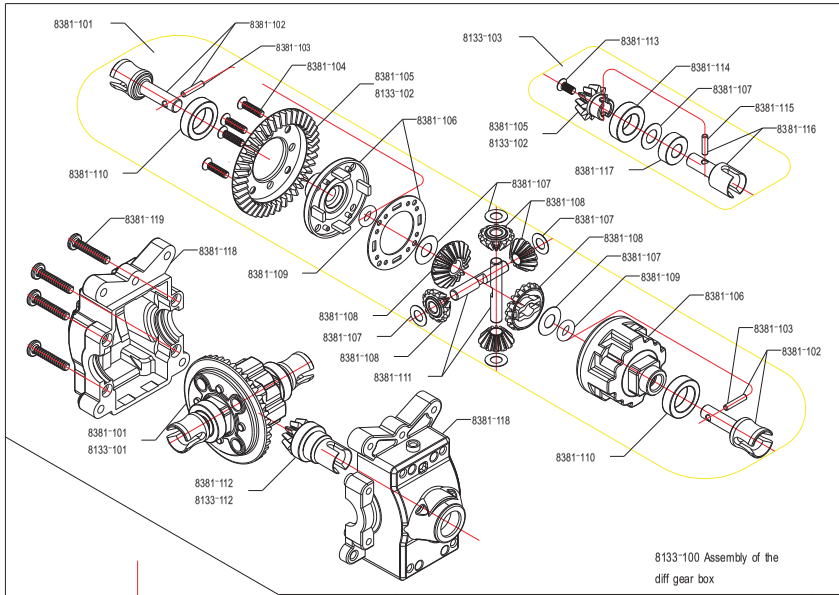
Part No.	Description
8136-002	Upper deck mount
8136-003	Central drive shaft-F
8136-004	Tire complete (chrome wheels) (2 pcs)
8136-005	Tire with foam (unglued) (2 pcs)
8136-006	Chrome wheels (2 pcs)
8136-010	Chassis cover
8135-005	Battery mount-C/D
8331-003	Body spacer (Φ18*Φ8*2mm) (4 pcs)
8381-008	Antenna tube (3 pcs)
8381-009	Pin-B(dia 1.2mm) (16 pcs)
8381-010	Screw washer (4 pcs)
8381-011	Flathead screw(KM3X10mm) (16 pcs)
8381-012	Flathead screw-coarsethread(KB3*10mm) (16 pcs)
8381-024	Flathead screw(KB4X11.5mm) (12 pcs)
D303	Servo (6kg)
D302T	2.4GHz transmitter
D302S	2.4GHz receiver

Optional parts

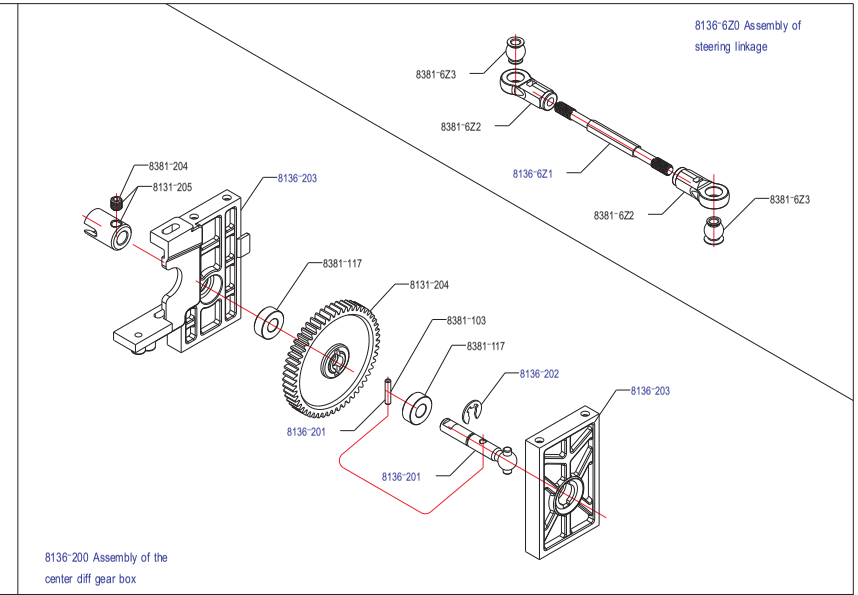
8136-011	Wheelie bar assembly
8381-400	Anti-roll bar assembly
8381-40L	Assembly of anti-roll bar linkage-Left
8381-40R	Assembly of anti-roll bar linkage-Right
8381-401	Anti-roll bar rod end (8 pcs)
8381-402	Anti-roll bar linkage (4 pcs)
8381-403	Anti-roll bar pivot ball-upper/lower (4 sets)
8381-404	Set screws (M3*3mm) (8 pcs)
8381-405	Anti-roll bar(Φ2.2mm) (2 pcs)
8381-607	Steering plate
8381-709	Steering arm (2 pcs)
8381-716	Set screws (M4*12mm) (16 pcs)

The following parts are suitable for cars only where there are √

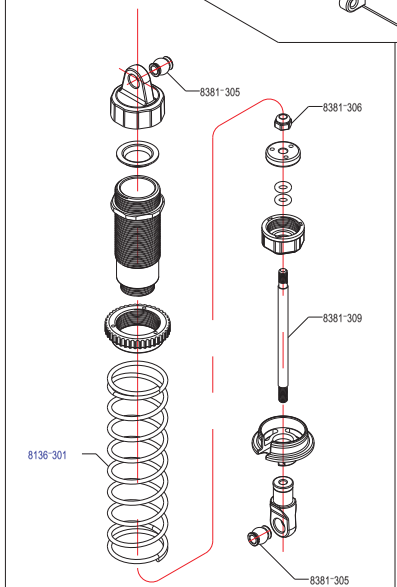
		8136	8137
8133-100	Assembly of diff gear box	√	
8133-101	Diff set	√	
8133-102	Crown gear-41T (large)/pinion gear-11T (small)	√	
8133-103	Assembly of the pinion gear	√	
8131-9M2	Motor gear-18T/Lock nut(M3*3)	√	
8136-007	Printed truck body (PVC)	√	
8136-008	Clear truck body (PVC) with body decals and window cutout	√	
H126	55A Brushed ESC	√	
H112	550 Brushed motor	√	
H125	7-cell (8.4V) SC 1800mAh NiMh battery(T-connector)	√	
H131	7-cell NiMh battery charger (T-connector)-800mAh output	√	
8381-100	Assembly of diff gear box		√
8381-101	Diff set		√
8381-105	Crown gear-41T (large)/pinion gear-11T (small)		√
8381-112	Assembly of the pinion gear		√
8137-001	Printed truck body (PVC)		√
8137-002	Clear truck body (PVC) with body decals and window cutout		√
8137-9M1	Motor gear-13T/Lock nut(M3*3)		√
H132	1/10 Brushless ESC (80A)		√
H109	3650 Brushless motor (KV:3970)		√
H110	LiPo battery (7.4V, 20C, 2300mAh)		√



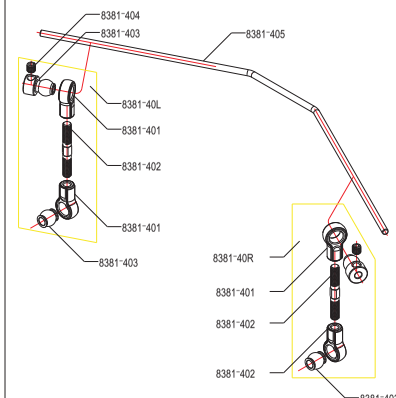
8133-100 Assembly of the diff gear box



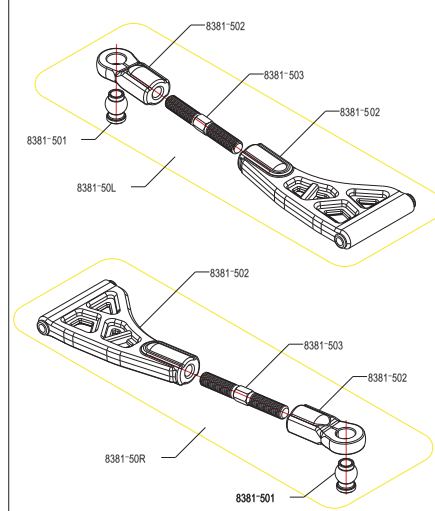
8136-200 Assembly of the center diff gear box



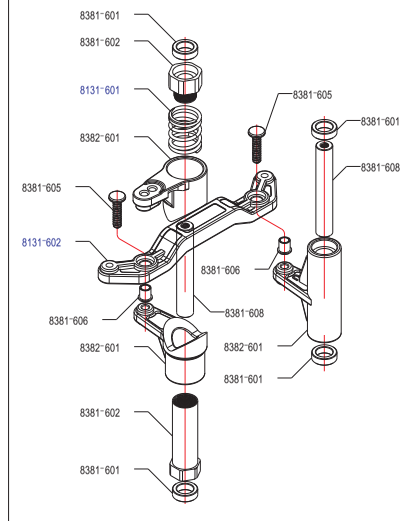
8136-300 Assembly of the shocks



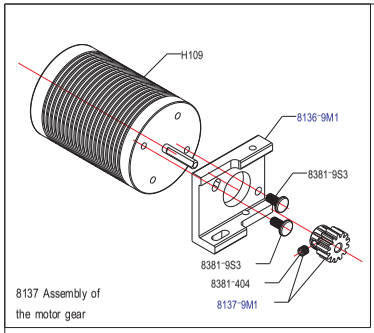
8381-400 Assembly of the sway bar



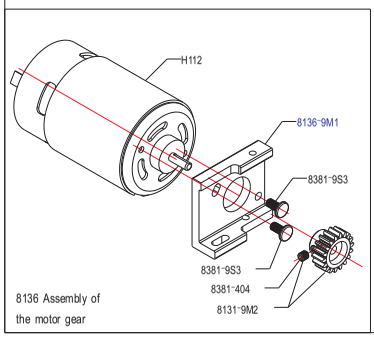
8381-50L Assembly of upper sus.arm-Left
8381-50L Assembly of upper sus.arm-Right



8136-600 Assembly of the servo saver

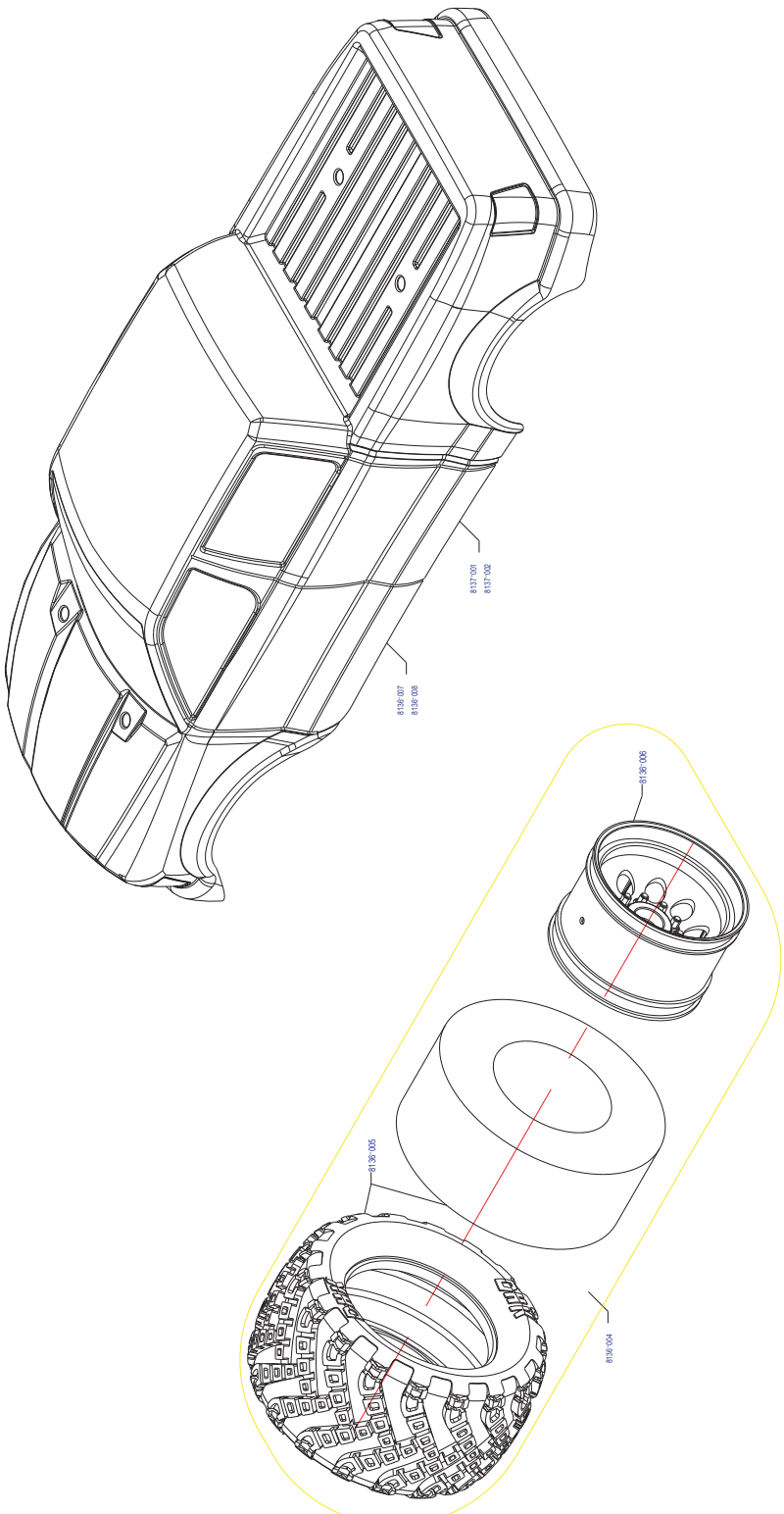


8137 Assembly of
the motor gear



8136 Assembly of
the motor gear

Assembly of the
front sus.arm system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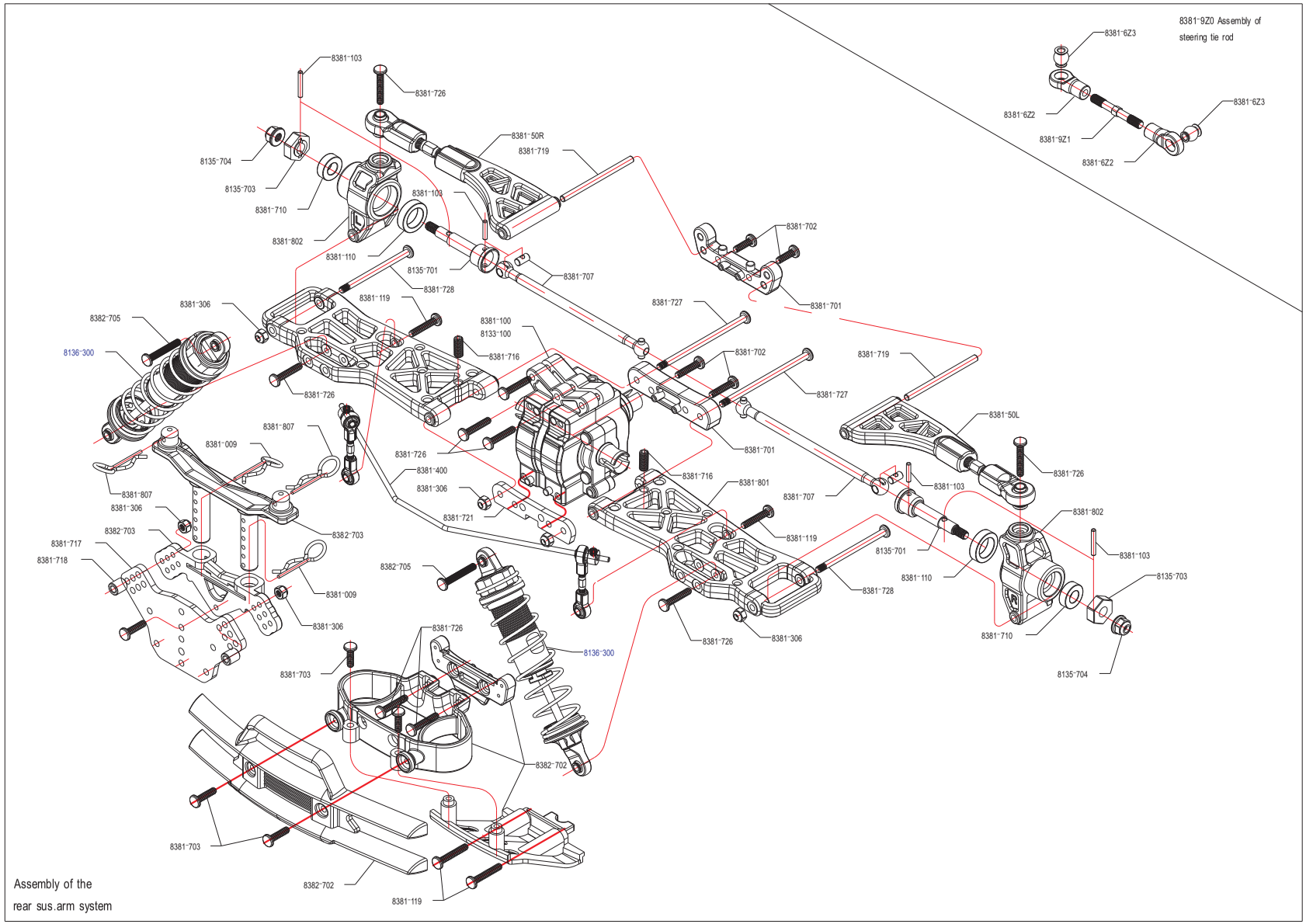
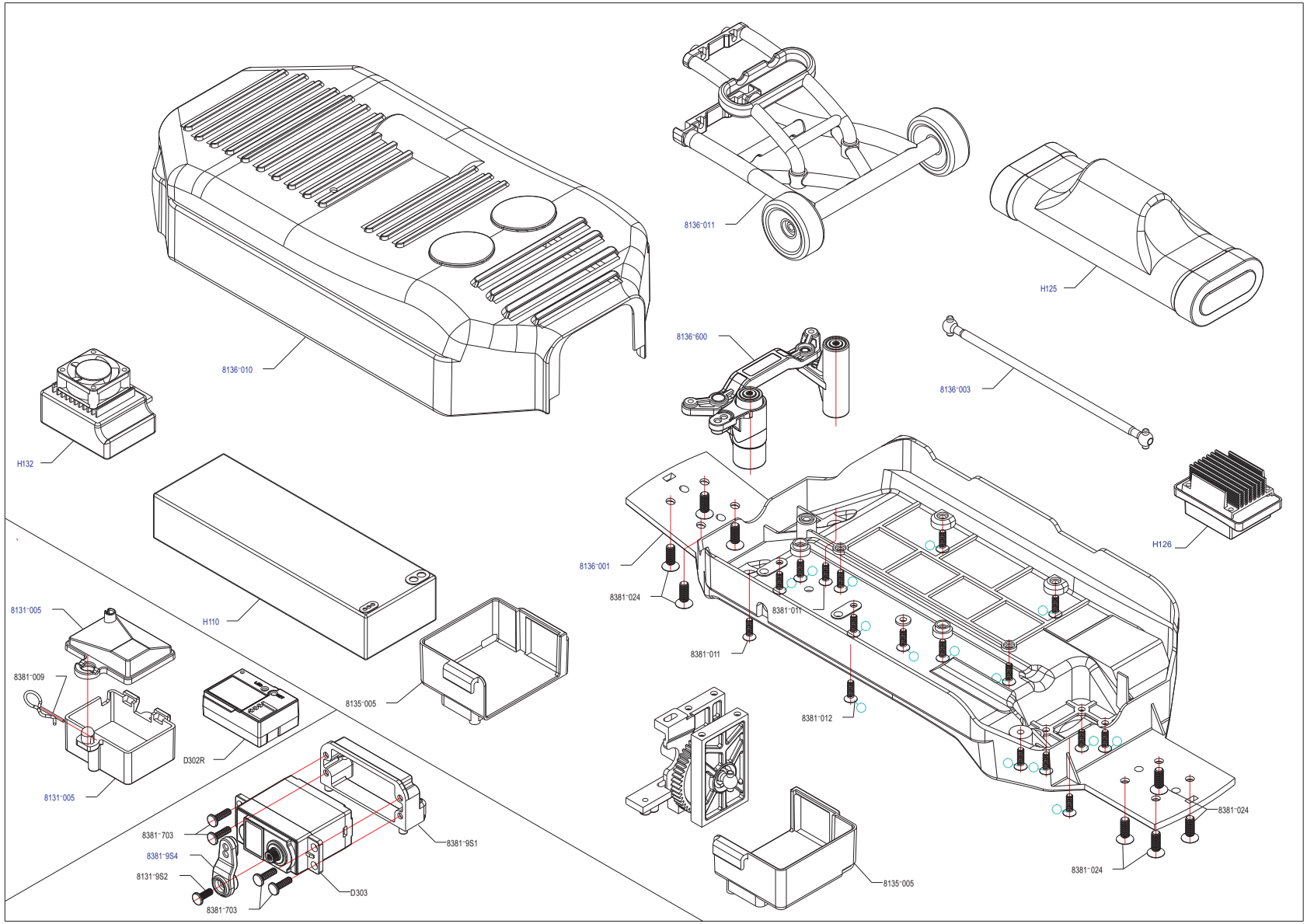
8137-002
8136-007
8136-008
8136-006
8136-005
8139-004



Assembly of the
rear sus.arm system


8136-010
8136-011
H125
8136-600
8136-003
H132
H110
H126
8136-001
8381-024
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8381-012
8131-005
8381-009
8131-005
D302R
8135-005
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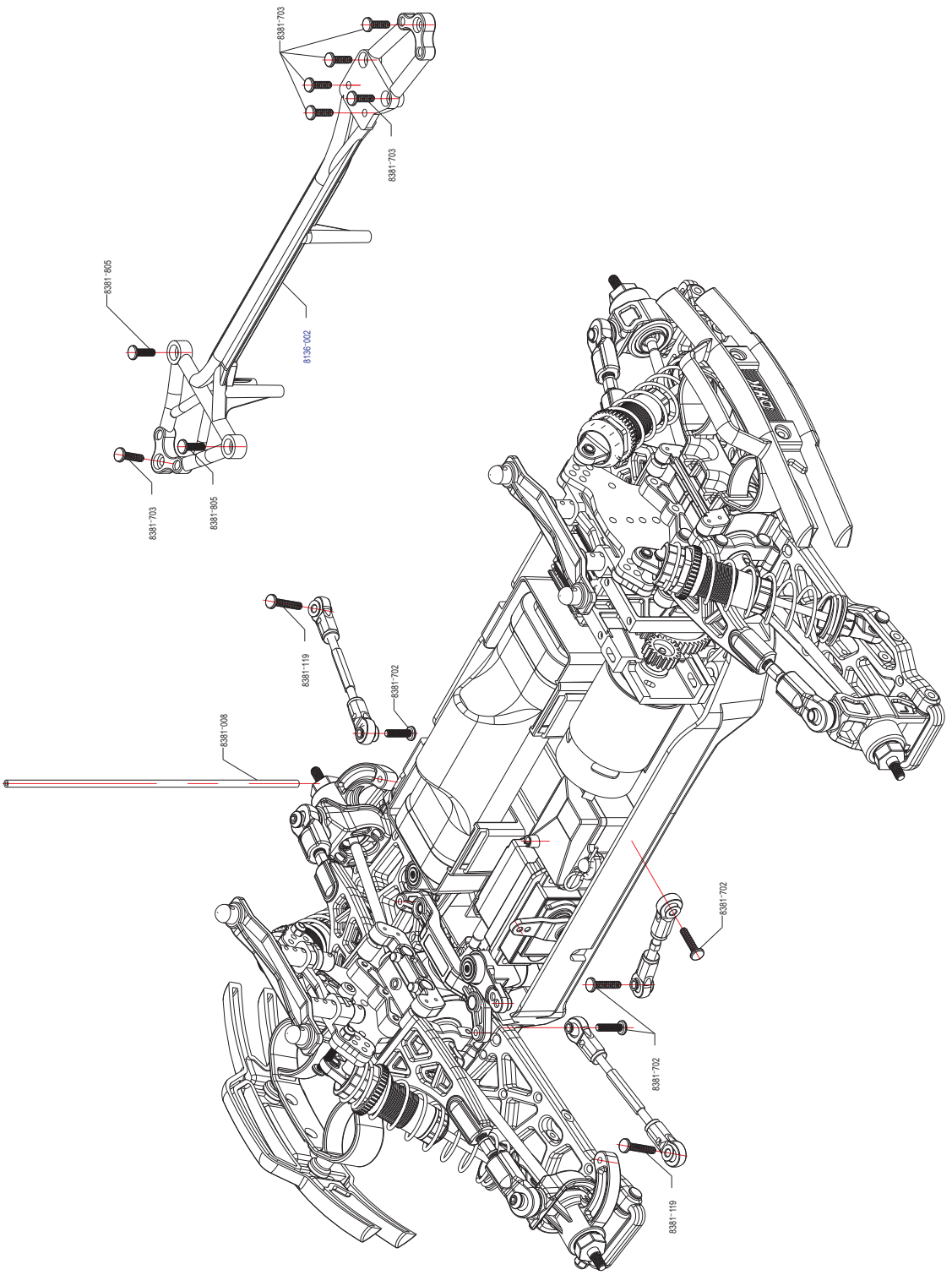
8131-9S2
8381-703
8381-9S1
D303


8381-703
8381-703
8381-805
8136-002
8381-703
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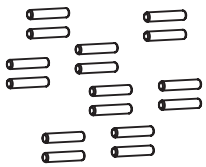
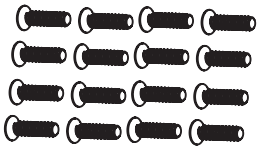
8381-008
8381-702
8381-702
8381-119

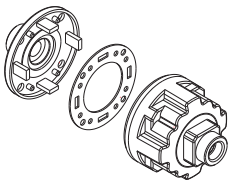
8381-102 Diff outdrive/pins (Φ2*10mm)



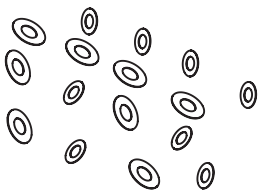
8381-103 Pins (Φ2*10mm) (16 pcs)



8381-104 Flathead screw-coarse thread(KB2.6*10mm) (16 pcs)

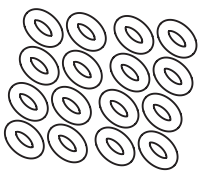


8381-106 Diff case set/diff case cover/gasket

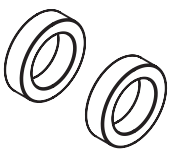


8381-107 Washer-A/B (8 pcs each)

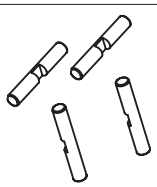
8381-108 Gear-18T (2 pcs)/ gear-12T (4 pcs)



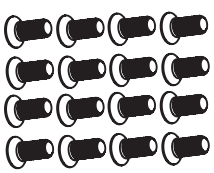
8381-109 O Ring(Φ8*Φ2mm) (16 pcs)



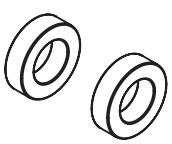
8381-110 Ball bearing(Φ10*Φ15* 4mm) (2 pcs)



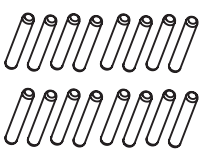
8381-111 Diff pins(Φ4*25.8mm) (4 pcs)



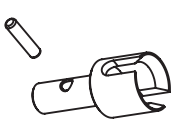
8381-113 Flathead screw (KM2.6X6mm)(16 pcs)



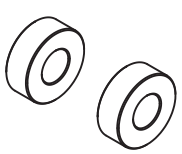
8381-114 Ball bearing(Φ8* Φ14*4mm) (2 pcs)



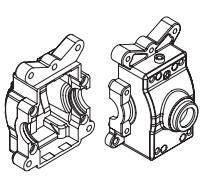
8381-115 Pins(Φ2*8mm) (16 pcs)



8381-116 Pinion gear outdrive/ pins(Φ2*8mm)

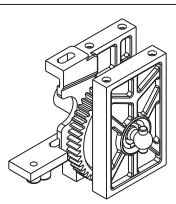


8381-117 Ball bearing(Φ5*Φ11* 4mm) (2 pcs)

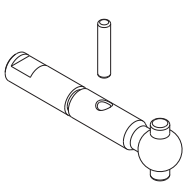


8381-118 Diff gear case cover-F/R

8381-119B head screw-coarse thread(BB3*16mm) (16 pcs)

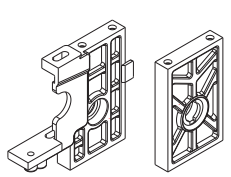


8136-200 Assembly of reduction gearbox

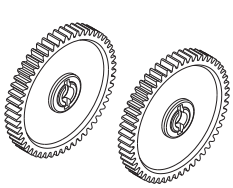


8136-201 Reduction connecting axle/pins (Φ2*10mm)

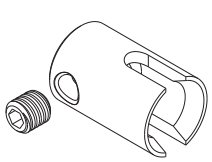
8136-202 E-type clamping spring (4 pcs)



8136-203 Reduction mounting plate A/B

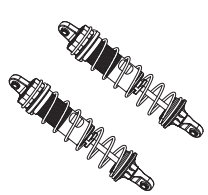


8131-204 Spur gear-53T(plastic) (2 pcs)

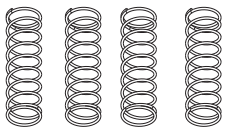


8131-205 Center diff outdrive/lock nut(M4*4mm)

8381-204 Set screws (M4*4mm) (16 pcs)

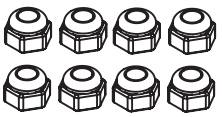


8136-300 Shock absorber complete (2 pcs)

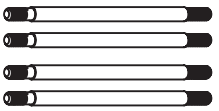


8136-302 Shock spring (4 pcs)

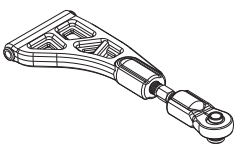
8381-305 Shock ball (8 pcs)



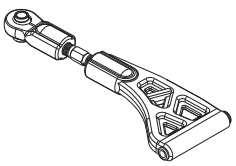
8381-306 M3 nylon nut (8 pcs)



8381-309 Shock shaft (4 pcs)

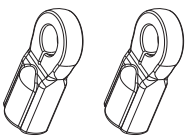


8381-50L Assembly of upper sus.arm-Left

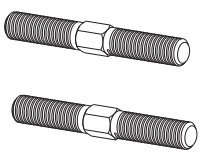


8381-50R Assembly of upper sus.arm-Right

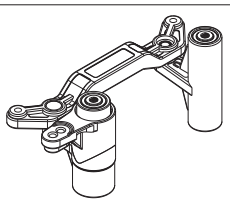
8381-501 Upper sus.arm ball (4 pcs)



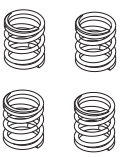
8381-502 Upper sus.arm/rod end (2 sets)



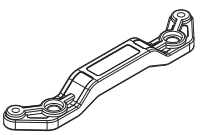
8381-503 Upper sus.arm linkage (2 pcs)



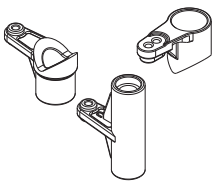
8136-600 Servo saver assembly-complete



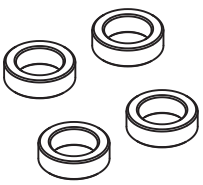
8131-601 Servo saver spring (4 pcs)



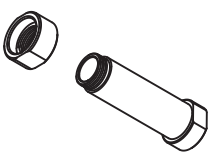
8131-602 Steering plate



8382-601 Servo saver sus. Arm-upper/lower/steering sus. Arm

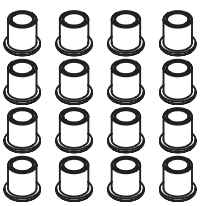


8381-601 Brass washer (4 pcs)

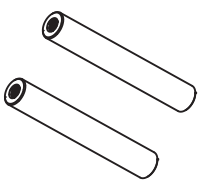


8381-602 Servo saver bushing/ adjustment ring

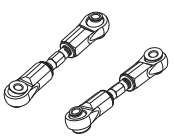
8381-605 B head screw-coarse thread(BB3*12mm) (16 pcs)



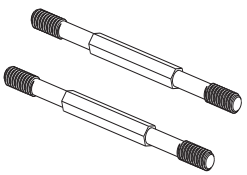
8381-606 Screw bushing (16 pcs)



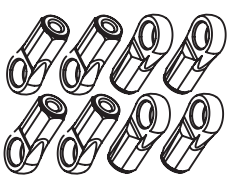
8381-608 Shaft (2 pcs)



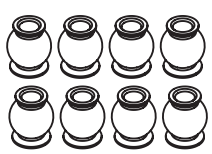
8136-6Z0 Assembly of steering linkage (2 pcs)



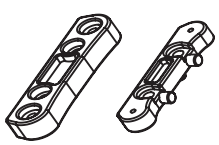
8136-6Z1 Steering linkage (2 pcs)



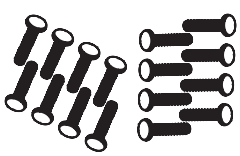
8381-6Z2 Plastic rod end (8 pcs)



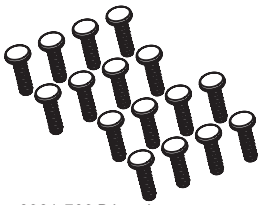
8381-6Z3 Double way ball end (8 pcs)



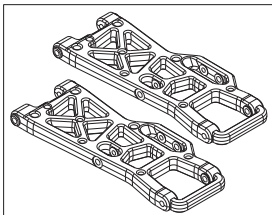
8381-701 Upper sus.arm mount-rear/suspension mount



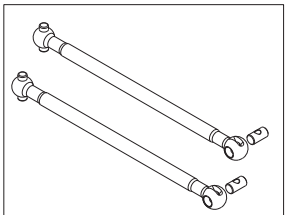
8381-702B head screw-coarse thread(BB3*14mm) (16 pcs)



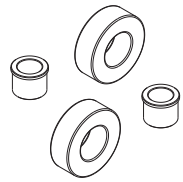
8381-703 B head screw-coarse thread(BB3*10mm) (16 pcs)



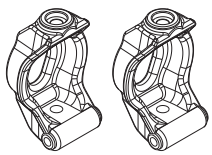
8381-706 Lower sus.arm-front (2 pcs)



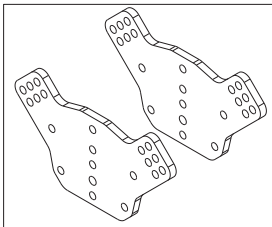
8381-707 Drive shaft set/revolving shaft (2 sets)



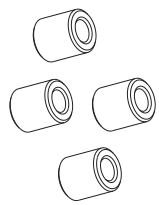
8381-710 Ball bearing(Φ6*Φ12* 4mm) (2 pcs)



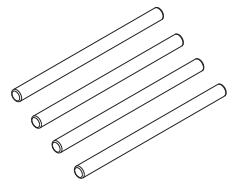
8381-714 C-hub (2 pcs)



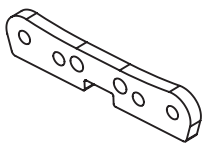
8381-717 Shock tower (2 pcs)



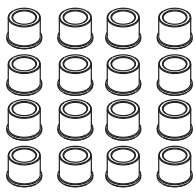
8381-718 Pivot ball mount (4 pcs)



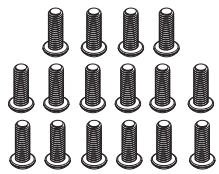
8381-719 Upper sus.arm shaft (4 pcs)



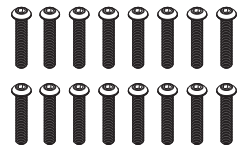
8381-721 Lower sus.arm plate-front



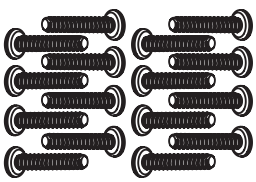
8381-723 C-hub screw bushing (16 pcs)



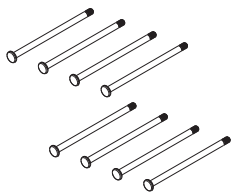
8381-724 T head screw(TM4* 12mm) (16 pcs)



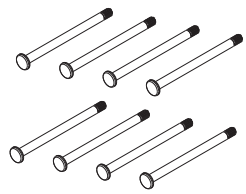
8381-725T head screw(TM4* 22mm) (16 pcs)



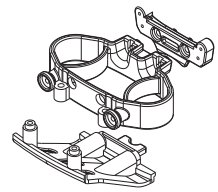
8381-726 B head screw-coarse thread(BB3*18mm) (16 pcs)



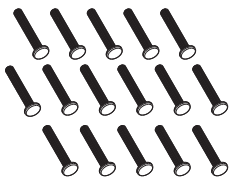
8381-727 B head screw(BM3* 56mm) (8 pcs)



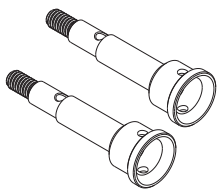
8381-728 B head screw(BM3* 43mm) (8 pcs)



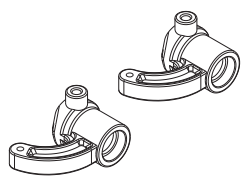
8382-703 Body post holder/ body post



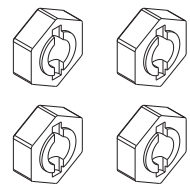
8382-705 B head screw(BM3* 24mm) (16 pcs)



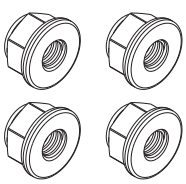
8135-701Wheel axle (2 pcs)



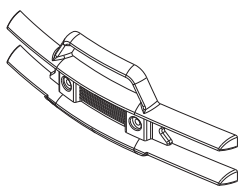
8135-702 Steering arm (2 pcs)



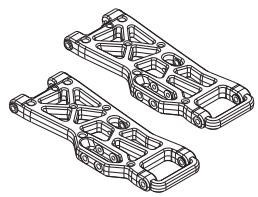
8135-703 Hex adapter (4 pcs)



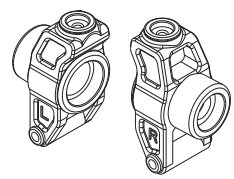
8135-704 Set screws-M4 (4 pcs)



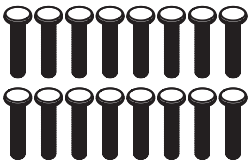
8382-702 Front bumper/upper sus.arm mount-front



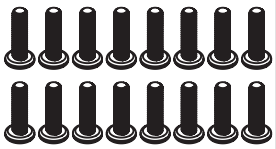
8381-801 Lower sus.arm-rear (2 pcs)



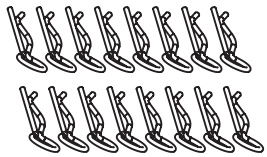
8381-802 Rear hub-L/R



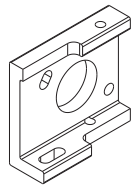
8381-803 B head screw(BM3* 18mm) (16 pcs)



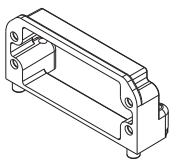
8381-805 B head screw(BM3* 10mm) (16 pcs)



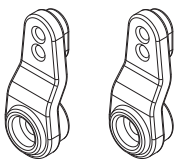
8381-807 Pin-A(Φ1.5mm) (16 pcs)



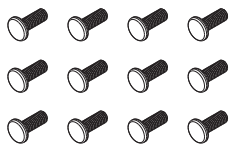
8136-9M1 Motor moun



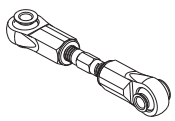
8381-9S1 Servo mount



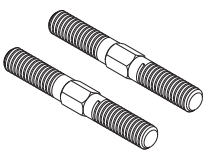
8381-9S4 Servo arm-D (2 pcs)



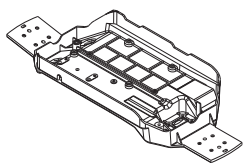
8131-9S2 B head screw(BM2.6* 6mm) (12 pcs)



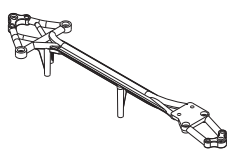
8381-9Z0 Assembly of steering tie rod



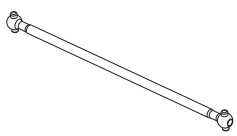
8381-9Z1 Steering tie rod (2 pcs)



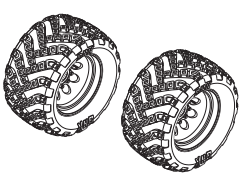
8136-001 Chassis



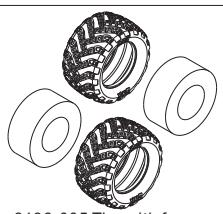
8136-002 Upper deck mount



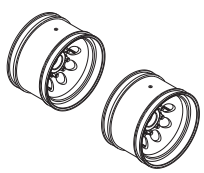
8136-003 Central drive shaft-F



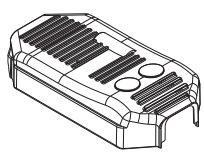
8136-004 Tire complete (chrome wheels) (2 pcs)



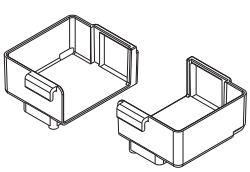
8136-005 Tire with foam (unglued) (2 pcs)



8136-006 Chrome wheels (2 pcs)

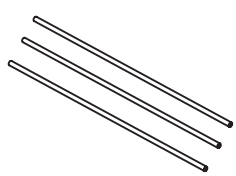


8136-010 Chassis cover

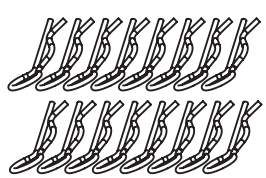


8135-005 Battery mount-C/D

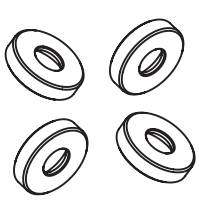
8331-003 Body spacer (Φ18* Φ8*2mm) (4 pcs)



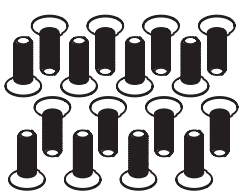
8381-008 Antenna tube (3 pcs)



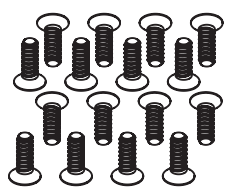
8381-009 Pin-B(dia 1.2mm) (16 pcs)



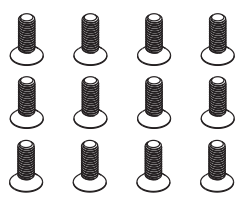
8381-010 Screw washer (4 pcs)



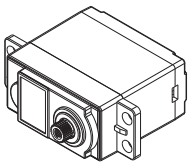
8381-011 Flathead screw (KM3X10mm) (16 pcs)



8381-012 Flathead screw-coarse thread(KB3*10mm) (16 pcs)



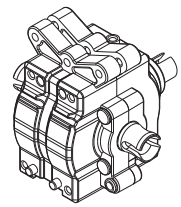
8381-024 Flathead screw (KB4X11.5mm) (12 pcs)



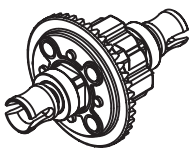
D303 Servo (6kg)

D302T 2.4GHz transmitter

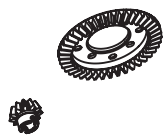
D302S 2.4GHz receiver



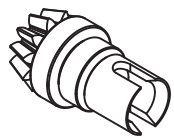
8133-100 Assembly of diff gear box



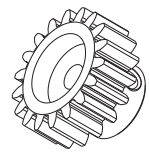
8133-101 Diff set



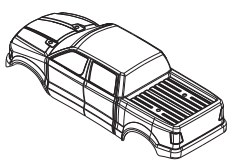
8133-102 Crown gear-41T (large)/pinion gear-11T (small)



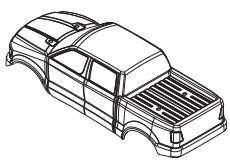
8133-103 Assembly of the pinion gear



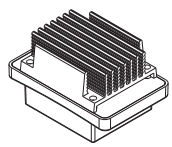
8131-9M2 Motor gear-18T/ Lock nut(M3*3)



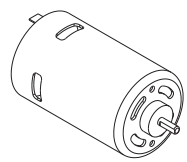
8136-007 Printed truck body (PVC)



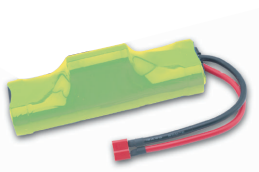
8136-008 Clear truck body (PVC) with body decals and window cutout



H126 55A Brushed ESC

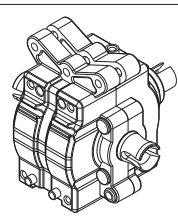


H112 550 Brushed motor

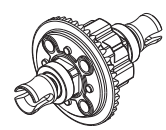


H125 7-cell(8.4V) SC 1800mAh NiMh battery(T-connector)

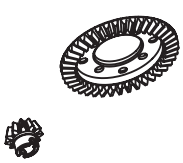
H131 7-cell NiMh battery charger (T-connector)-800mAh output



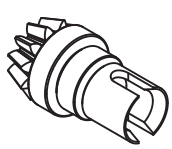
8381-100 Assembly of diff gear box



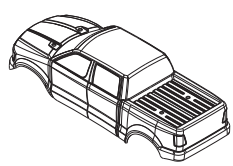
8381-101 Diff set



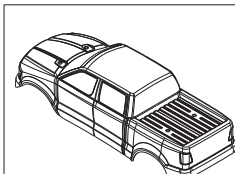
8381-105 Crown gear-41T (large)/ pinion gear-11T (small)



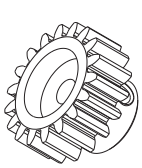
8381-112 Assembly of the pinion gear



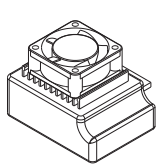
8137-001 Printed truck body (PVC)



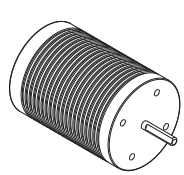
8137-002 Clear truck body (PVC) with body decals and window cutout



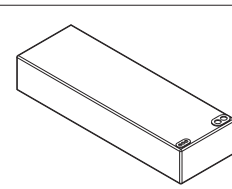
8137-9M1 Motor gear-13T/Lock nut(M3*3)



H132 1/10 Brushless ESC (80A)

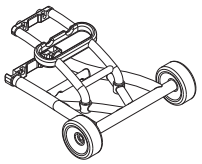


H109 3650 Brushless motor (KV:3970)

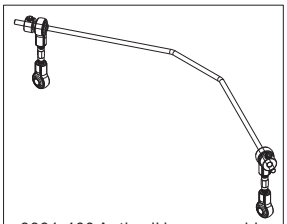


H110 LiPo battery (7.4V, 20C, 2300mAh)

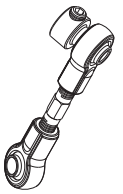
Optional parts



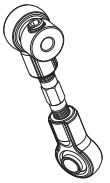
8136-011 Wheelie bar assembly



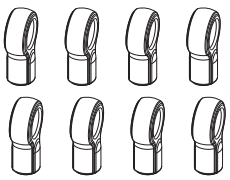
8381-400 Anti-roll bar assembly



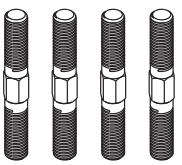
8381-40L Assembly of anti-roll bar linkage-Left



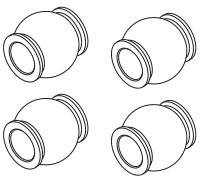
8381-40R Assembly of anti-roll bar linkage-Right



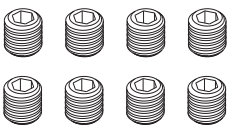
8381-401 Anti-roll bar rod end (8 pcs)



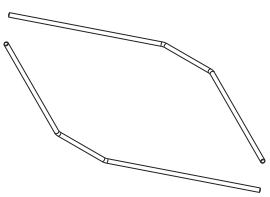
8381-402 Anti-roll bar linkage (4 pcs)



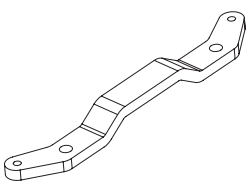
8381-403 Anti-roll bar pivot ball-upper/lower (4 sets)



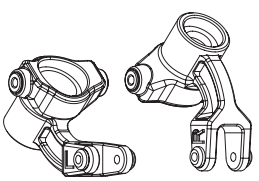
8381-404 Set screws (M3*3mm) (8 pcs)



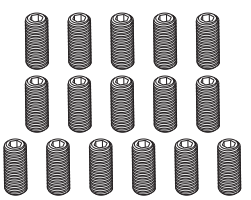
8381-405 Anti-roll bar(Φ2.2mm) (2 pcs)



8381-607 Steering plate



8381-709 Steering arm (2 pcs)



8381-716 Set screws (M4*12mm) (16 pcs)

Annex: 2.4GHz Transmitter Manual

PART I:

2.4GHz Transmitter (Standard, Model#: D302T)

Safety Precautions

1. The 2.4GHz transmitter and receiver are pre-bound at the factory.
2. Please always use the same receiver model from the factory to match your 2.4GHz transmitter when you need to replace it. Receivers from other suppliers don't work on DHK HOBBY 2.4GHz transmitter.
3. When you need to replace a receiver, please make sure that it is bound with the transmitter before use.
4. Please operate the transmitter in vast areas where no radio interference exists. It's strongly recommended that no humans, animals or high voltage grid should be nearby.
5. Please do not operate this transmitter during fatigue, sickness, intoxication or in bad mood. 6. Do not operate the transmitter at night time, in the rain and thunderstorm or at low visibility. 7. Always use the same types of batteries in the transmitter. Do not mix old and new batteries in the transmitter. Please check the battery power before use. Replace batteries whenever the power is low to avoid out of control. Ni-Mh or Ni-Cd rechargeable batteries can be used on this transmitter. Please charge the batteries to full before use.
8. Before you operate the transmitter, please check the switch, batteries, servo and ESC for proper connection. 9. ALWAYS switch on the transmitter first, and off last so as to avoid possible radio interference from other sources. Failure to do so may cause out of control of your vehicle.
10. Before operation, check the servo forward and reverse functions, motor range, and neutral position. Modify it when necessary.
11. Please handle the transmitter with care. Store the transmitter in a dry and clean place when it's not in use for some time.

Transmitter Specifications

Channels	2 channels
Model types	Cars, boats
Frequency range	2.40-2.483GHz
RF power	⩽20dB
Power output	10mW
Bandwidth	1M
Band number	64
2.4GHz modulation	AFHDS
Encoding	GFSK

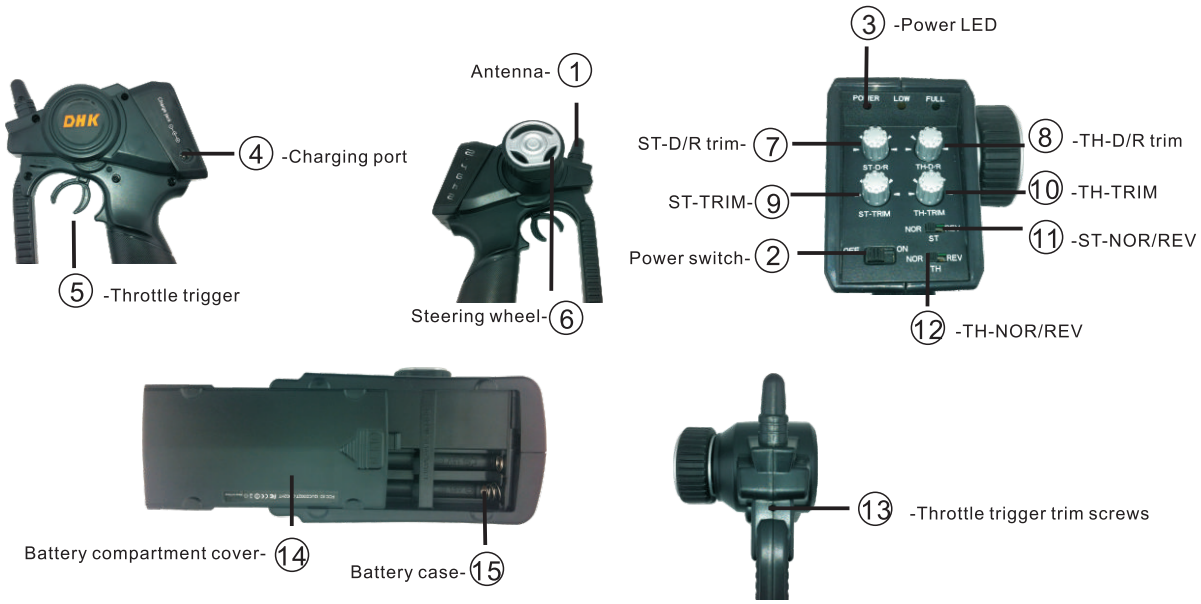
Channel resolution	4096
Remote range	>200M
TH range	0.9mS-2.1mS
ST range	0.9mS-2.1mS
Battery voltage	6V (1.5V*4 cells)
Low voltage protection	⩽4.4V
Weight	320g
USB port	N/A
Charging port	Yes

2.4GHz Standard Transmitter Parts and Functions

1-Antenna: pull up the antenna straight before use.
2-Power switch: slide the switch to turn on or off.
3-Power LED: shows the power strength. Green LED shows full power, Yellow LED flashes when the power is running short.
4-Charging port: charges Ni-Mh or Ni-Cd batteries only. Alkaline batteries are not rechargeable. NEVER charge your alkaline batteries.
5-Throttle trigger: Please refer to the transmitter diagram.
6-Steering wheel: Please refer to the transmitter diagram.
7-ST-D/R trim: adjust the steering servo angle ranging from 0% to 120%.
8-TH-D/R trim: adjust the throttle servo angle ranging from 0% to 120%.
9-ST-TRIM: adjust the steering neutral position, from 0% to 20%.
10-TH-TRIM: adjust the throttle neutral position, from 0% to 20%.
11-ST-NOR/REV: slide to left or right to choose steering mode.

12-TH-NOR/REV: push the trigger or pull it back to choose the throttle mode.
13-Throttle trigger trim screws: use a hex driver to tighten or loosen the screw to a comfortable level.
14-Battery compartment cover: to open the compartment, slide the cover to OPEN direction as indicated, snap it to close the compartment.
15-Battery case: open the battery cover, install 4 pcs AA 1.5V alkaline or rechargeable batteries based on the "+" & "-" poles. If the status LED flashes red, the transmitter batteries may be weak, discharged or possibly installed incorrectly. Replace with new or freshly charged batteries. The power indicator light does not indicate the charge level of the battery pack installed in the model.

Parts Diagrams



Receiver Functions

Frequency range	: 2.4GHz
2.4GHz modulation	: AFHDS
Sensitivity	: -100dbm
Working voltage	: DC4.8-6.0V
Working current	: ⩽25mA
Size	: 5.7*26*15.2mm
Weight	: 11.2g

1. Antenna: Pull out the antenna completely

2. Connecting ports: receiver power port and channel signal connecting ports
> ST/1: Channel 1, steering signal port
> TH/2: Channel 2, throttle servo or ESC signal port
> AUX/3: Auxiliary signal port
> BATT/4: Receiver power port, can be auxiliary signal port

3. Set keys & LED indicators
>Bind setup. Switch on the receiver, indicators flash slowly, press the setup key for 2 seconds and release it, LED indicator flash in faster motion, binding starts. When the LED indicator is on in stable status, the binding is complete. Note: To bind it quickly and effectively, please put the receiver 40-50cm away from the transmitter.

>Failsafe. Switch on the transmitter and receiver, then you can see the LED indicator on receiver is on. Adjust the throttle servo or ESC to brake or stop status, and keep it that way. Press the setup key, then receiver LED indicator flashes, keep this for 3 seconds. After this, release the setup key. Failsafe setup is complete.

>Disabling failsafe function. Switch on transmitter and receiver, once the signal is connected, LED indicator is on. Press the setup key for 2 seconds, LED indicator flashes quickly, at this point, keep pressing the setup key without release, press it for 2 more seconds, LED indicator flashes slowly. Release the setup key, LED indicator is on. The setup is complete.

PART II:

2.4GHz Transmitter (LCD Version, Model#: D302HT)

Safety Precautions

Please refer to Safety Precautions in PART I

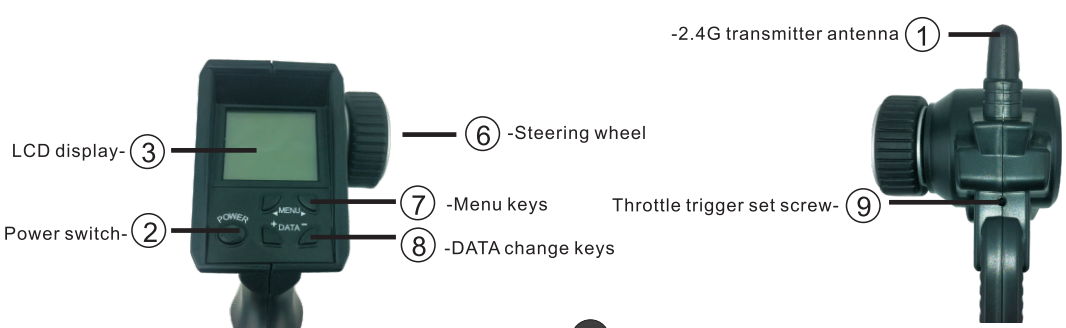
Transmitter Specifications

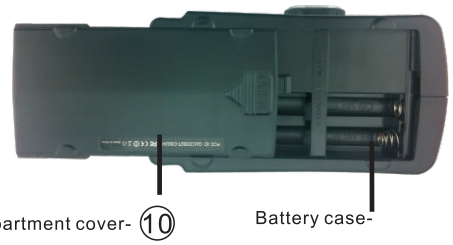
Please refer to Transmitter Specifications in PART I.

2.4GHz LCD Transmitter Parts and Functions

1. 2.4G transmitter antenna: before use, please pull the antenna straight up.
2. Power switch: Press down to turn on the transmitter, press the switch again to turn it off.
3. LCD display: shows transmitter menus, parameters and operation instructions.
4. Charging port: charging area is positive inside and negative outside. When Ni-Mh or Ni-Cd rechargeable batteries are to be charged, right charger should be selected for re-charging the batteries.
5. Throttle trigger: drag, push or make the throttle trigger to a neutral position to forward, reverse or brake your RC model.
6. Steering wheel: turn the steering wheel counterclockwise to turn the model to left. Turn the steering wheel clockwise to turn the model to right. Release it to neutral for straight driving.
7. Menu keys: Press Left key (<) or Right key (>), move the cursor to LCD display options.
8. DATA change keys: press Left key (+) or Right key (-) to change, adjust and save current parameters.
9. Throttle trigger set screw: use a 2.5mm hex screw driver to move forward or backward to adjust the throttle trigger to a comfortable hand feeling.
10. Battery compartment cover: Press the door to OPEN indicated direction to open the battery compartment cover. Snap the compartment door into the slot to close the battery compartment.
11. Installing batteries: open the battery compartment cover, install 4 pcs “AA” batteries (same type) according to the indicated “+” “-“ orientations. Turn on the transmitter and check the indicator status for a solid green light. Please take out the batteries when the transmitter is not in use. If the status LED flashs red, the transmitter batteries may be weak, discharged or possibly installed incorrectly. Replace with new or freshly charged batteries. The power indicator light does not indicate the charge level of the battery pack installed in the model.

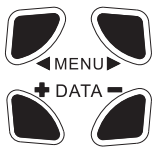
Parts Diagrams





LCD Functions and Operations

Key Operations



Menu keys:
Press Left key (<) to main command, and Right key (>) for secondary command.
DATA keys:
Press Left key (+) or Right key (-) to adjust, set up and auto save the current chosen function.

Display Interface

Switch on the transmitter, you will hear “beep” sound (beeps once), and the LCD display mode will read the default parameters pre-set at the factory and BATT status mode (main menu).

BATT: battery status, function reset settings

Battery level display. Battery voltage appears on LCD display. When the voltage is 4.4V, the value flashes and you can hear warning sound. This means the battery voltage is deficient. When battery voltage value shows 4.0V, the value blinks fast and warning sound keeps strong. This indicates battery voltage is too low and batteries cannot be used. Please turn off the transmitter and replace batteries. If rechargeable Ni-Mh or Ni-Cd batteries are used, please charge the batteries with proper charger.

Function reposition. In case the parameters are messed up or if you don't know how to set up, please turn off the power, press and hold MENU Left key (<). Then turn on the power and you will hear “beep” sound after two seconds. Release all keys and all parameters will go back to factory default values.

Frequency duplication setting. When two transmitters are used at the same time, a frequency might be duplicated. In this case, you may choose the auto frequency function. First turn off the power, then press and hold MENU Right key (<), and turn on the power. The display will show hopping data. Release the key and the hopping data will stop. The digit shown on the display is your frequency. Bind the transmitter with the receiver through binding keys.

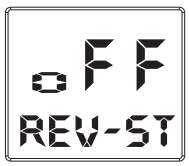
MOD: Setting up mode and naming

15 group memory data for choice, it's easy to manage and use. At start status, press Left key (+) or Right key (-) of the DATA to choose the necessary module (Screen shows main menu)

For easy control, you may name each module. Press Left key (<) on MENU (6 times on Main Menu) until you see 000 01 on the screen and the first digit must flash, at this moment, you may change the data here. Press Left key (+) or Right key (-) to choose necessary data. Once first change is made, press Right key (>) on MENU to move the cursor to the next position, then press Left key (-) or Right key (+) to choose the needed data. Based on the above, you can change data for the 3rd data group. Once all is changed, press Left key (<) on the MENU function to get back to Main Menu and save the setup. (Screen shows 000 01).

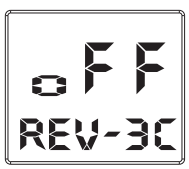
MOD	Range	Default
MODULE	0 – 15	01
NAMING UNITS	Digits 0-9, letters A-Z	000

REV: Servo forward and reverse setup



Setting up Steering servo direction. Press MENU function Left key (<) or Right key (>) (Press once under MAIN MENU) until you see" ***REV-ST", then press DATA function Left key (+) or Right key (-) to choose ON/OFF. (Screen shows OFF REV-ST).

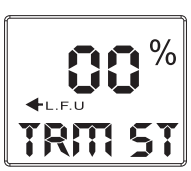
Setting up Throttle speed neutral position. Press MENU function Left key (<) (Press once under the MAIN MENU) and then press twice of MENU Right key (>) until you see ***REV-TH. Press DATA function Left key (+) or Right key (-) ON/OFF. (Screen shows OFF REV-TH).



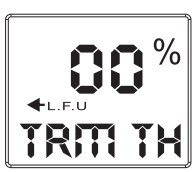
Setting up the 3rd Channel: Press MENU function Left key (<) (Press once under MAIN MENU), then press twice on Menu function Right key (>) until you see ***REV-3C, press DATA function Left key (+) or Right key (-) to choose ON/OFF. (Screen shows OFF REV-3C).

REV	Initial value	Range
ST	OFF	ON/OFF
TH	OFF	ON/OFF
3C	OFF	ON/OFF

TRM: Servo neutral trim setup



Setting up steering servo(ST) neutral position parameters. Press MENU function Left key (<) (Press twice under MAIN MENU) until you see **% TRM ST and neutral value. Press DATA function Left key (+) or Right key (-) to change the steering neutral position. On the screen there is steering neutral status L.F. U, R. B. D and percentage values indicating the neutral position at that setup. (Screen shows 00% TRM ST).



Setting up throttle speed (TH) neutral position parameters. Press MENU function Left key (<) (Press twice under MAIN MENU), and press MENU function Right key (<) until you see **% TRM TH and neutral value. At this point, press DATA function Left key (+) or Right key (-) for adjustment. On the screen you will see neutral position status indicator L. F. U, R. B. D and percentage values. (Screen shows 00% TRM TH)

TRM	Initial value	Range
ST	0%	100%<--L. F. U—100% R.B.D.-->
TH	0%	100%<--L. F. U—100% R.B.D.-->

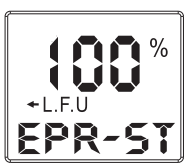
D/R: Servo angle adjustment setup

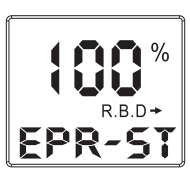
Set up Steering servo (ST) angle. Press Menu function Left key (<) (Press 3 times on MAIN MENU) until you see **% D/R ST on the screen, then press DATA function Left key (+) or Right key (-) to choose servo angle parameter. (Screen shows 100% D/R ST).

Set up Throttle servo (TH) forward and reverse angle. Press MENU function Left key (<) (Press 3 times on MAIN MENU), then press MENU function Right key (>) once, the screen shows **% D/R TH, press DATA function Left key (+) or Right key (-) for throttle angle parameters. (Screen shows 100% D/R TH)

D/R	Initial value	Range
ST	100%	0% - 100%
TH	100%	0% - 100%

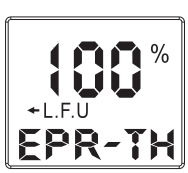
EPA: End point adjustment (servo single side angle setup)

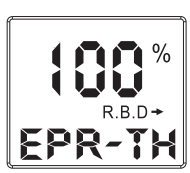




Set up steering servo single side (left steering or right steering) travel angle. Press MENU function Left key (<) (Press 4 times under MAIN MENU) until the screen shows **% EPA ST. Turn the steering wheel clockwise, the screen shows the EPA value of right steering R.B.D.-->; Press DATA function Left key (+) or Right key (-) and change the data. When you turn the steering wheel counterclockwise, the screen displays the EPA value of left steering L. F. U on steering servo. Press DATA function Left key (+) or Right key (-) for desired value. (Screen shows 100% EPA-ST)

Note: for this function, the steering servo travel angle is adjusted to a wider or narrower range, hence the steering angle of the left or right tire is adjusted to desired angle.





Set up throttle speed (forward or reverse). Press MENU function Left key (<) (Press 4 times under MAIN MENU) and press once on MENU function Right key (>), the screen shows **% EPA TH. Pull back the throttle trigger and the screen displays L.F.U value of forward (F) speed. Press DATA function Left key (+) or Right key (-) to change the value. Push forward the throttle trigger and the screen shows reverse R.B.D value of reverse speed, press DATA function Left key (+) or Right key (-) to change the value. (Screen shows 100% EPA-ST)

Note: for this function, the throttle servo angle is adjusted (wider or narrower) on nitro- (gas-) powered vehicles, and for EP vehicles, speed of the electronic speed controller adjusted (faster or slower).

EPA	Initial value	Range
ST←L.F.U	100%	0% - 120%
ST R.B.D→	100%	0% - 120%
TH←L.F.U	100%	0% - 120%
TH R.B.D→	100%	0% - 120%

ABS: Setting up brake system

Set up throttle ABS brake system. Press MENU function Left key (<) (Press 5 times under MAIN MENU), screen shows *** ABS- TH, press DATA function Left key (+) or Right key (-) to choose ON/OFF. At ON status, it prevents the tires from getting stuck in powerful griping motion during brake. (Screen shows *** ABS- TH)

For each of the above setup, when one setting is selected, please wait for 5 seconds until you see the main menu, then that setting is automatically saved as memory.

Receiver Functions

Please refer to Receiver Functions Section in PART I.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Shenzhen Bontek Electronic Technology Co., Ltd.

CE Attestation of Conformity

Certification number:BCT11GC-1068E Report number:BCT11GR-1068E-1,BCT11GR-1068E-2

Shenzhen Bontek Electronic Technology Co., Ltd. hereby declares that testing has been completed and reports have been generated for:

Applicant:	**DHK TECHNOLOGY CO. LTD.** E2 Bldg, Wanfeng Western Ind Zone, Heyi, Shajing, Shenzhen, China 518104
Manufacturer:	**DHK TECHNOLOGY CO. LTD.** E2 Bldg, Wanfeng Western Ind Zone, Heyi, Shajing, Shenzhen, China 518104
Trade Mark:	**DHK HOBBY**
Product:	**2.4GHz Transmitter & Receiver**
Model:	**D302T, D302HT**

And, in accordance to the following applicable directives:

1999/5/EC R&TTE Directive (as amended)

That this product has been assessed against the following applicable Standards;

R&TTE

ETSI EN 300 440-1 V1.6.1
ETSI EN 300 440-2 V1.4.1
ETSI EN 301 489-1 V1.8.1
ETSI EN 301 489-3 V1.4.1

Therefore, SHENZHEN BONTEK ELECTRONIC TECHNOLOGY CO., LTD. hereby acknowledges that the Manufacturer may issue a DECLARATION of CONFORMITY and apply the CE mark in accordance to European Union Rules.

Attestation by:

Kendy Wang

Date of Issued: Sep. 5, 2011

1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China
Tel:+86-755-86337020 Fax:86-755-86337028 http://www.bontek.com.cn

TCB

GRANT OF EQUIPMENT AUTHORIZATION

TCB

Certification

Issued Under the Authority of the

Federal Communications Commission

By:

PHOENIX TESTLAB GmbH
Koenigswinkel 10
D-32825 Blomberg,
Germany

Date of Grant: 11/20/2012

Application Dated: 11/20/2012

DHK TECHNOLOGY CO., LTD.
E2 BLDG, WANFENG WESTERN IND ZONE, HEYI, SHAJING
SHENZHEN, 518104
China

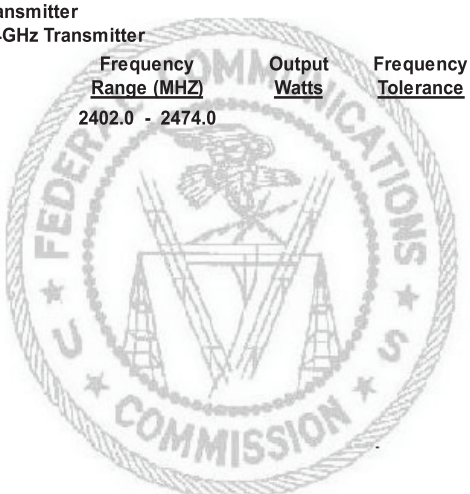
Attention: Jack Jiang , Manger

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION IS HEREBY ISSUED TO THE NAMED GRANTEE, AND IS VALID ONLY FOR THE EQUIPMENT IDENTIFIED HEREON FOR USE UNDER THE COMMISSION'S RULES AND REGULATIONS LISTED BELOW.

FCC IDENTIFIER: QUCD302T-D302HT
Name of Grantee: DHK TECHNOLOGY CO., LTD.
Equipment Class: Part 15 Low Power Communication Device Transmitter
Notes: 2.4GHz Transmitter

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
	15C	2402.0 - 2474.0			



DHK TECHNOLOGY CO.LTD

http://www.dhkhobby.com

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