



SMARTECH MODEL

Item No.: 083420



TECHNICAL DATA

Length	500mm
• Width	
Wheelbase	325mm
• Thread(F/R)	210mm
Wheel Diameter	
Gear Rate	11.7:1
Weight	3500g
• Engine	

FEATURES

- Assembled Chassis, ready to run.
- Powerful engine equipped with slide carburetor and pull-starter.
- Excellent perfromance muffler and air-filter.
- Four wheel drive system with deceleration.
- Metal Differential bevel gear F/R.
- Standard fuel tank 125cc
- Adjustable aluminum shock absorber (4pcs).
- Aluminum Chassis.
- Disc brake system.
- Full stainless steel ball bearing set.

The contents are subjust to changes without notice due to product improvements and specification changes.

Notice before assembly

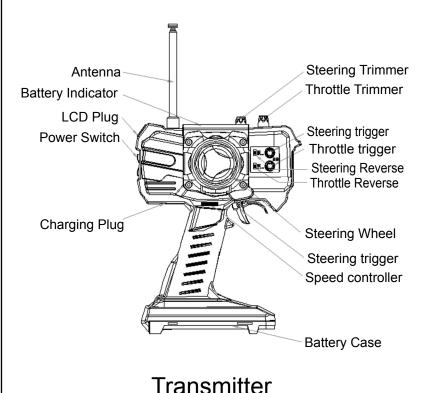
The following tools are needed for assembly. You must buy them from the local hobby shops apart from the kits we provided.

Please read and comprehend this instruction manual before assembly.

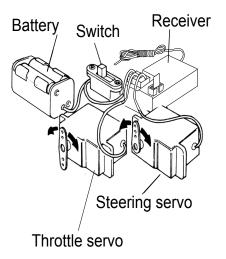
2-Channel Transmitter system

Please read the transmitter system instructions carefully before use.

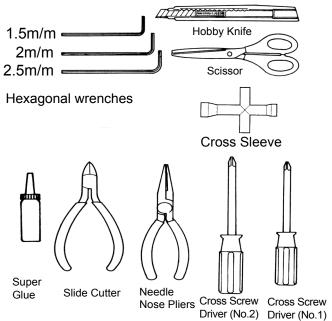
The servo must be set at the center position before installation. To set the servo to neutral position, turn on the transmitter and receiver, and sett the servo rod at the center position, and then turn off the receiver and the transmitter in succession. The servo will be at the proper position.



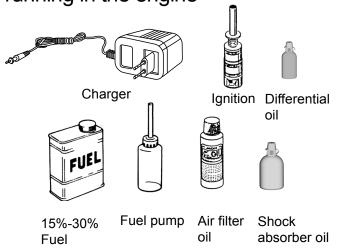
Item No.:30133



Tools needed for assembly



Additional items needed to buy for running in the engine



TROUBLE SHOOTING

Problems	Causes	Solutions
Engine fails to start.	 No fuel in the tank or the carburetor. The spark plug is damaged, or the porffire has not been charged. The fuel pipe, air filter or muffler is choked. Too much fuel. The carburetor has not been adjusted properly. The servo link has not been adjusted properly. 	 Fill the tank with fuel, and press prime button. Change the spark plug with a new one, or charge the portfire. Clean the parts clogged, or change with new ones. Remove the spark plug and spill the fuel. Check the spark plug, change another one if it is not working. Set the idle, main and slow needle to standard starting position. Set the servo to neutral position and readjust it.
You can start the engine, but it flames out at once.	No fuel in the fuel tank. The fuel pipe, air filter or muffler is choked. The carburetor has not adjusted properly. The engine is overheated.	 Fill the tank with fuel. clean or change the parts clogged. Readjust the idle, main and slow needle, set them to starting position. Cool down the engine. Unscrew the main needle adjusting screw, turn left for 30 degree.
The engine does not work well.	The carburetor has not been adjusted properly. Little oil pressure in muffler.	Readjust the idle, main and slow needle. Assemble the pipe between the muffler and fuel tank properly.
Hard to handle the car.	The battery of the transmitter or receiver is weak or exhausted. Bad performance of the antenna. The servo link has not been adjusted properly.	Charge the battery or replace it. Extend the antenna of the transmitter and receiver. Set the servo to the neutral position and readjust it.

OPERATTION PRECAUTION

- Warning: Never run your model on following conditions! Unobserved operations could cause accidents.
- on roads or railways
- places where children and people gather
- in residentials, parks, hospitals or close to airports.
- indoors or limited areas
- Only run your model in spacious places.
- Unobserved operations could cause accidents or personal injuries and loss of property.
- Make sure that the batteries of the transmitter and receiver are not weak.
- With low battery, the performance of the model will be affected, and the model may be out of control and cause severe accidents.
- Keep alert, as someone else may be operating this kind of model nearby.
- Never use the same frequency with someone else coinstantaneous! Otherwise, the signal could be disturbed, and the model would be out of control, which result in severe accidents.
- Stop your model as soon as it runs abnormally, and check the model. Do not use your model again until you have solved the problems, otherwise, it could cause more problems even an accident.

SAFETY PRECAUTION

- Make sure that all assembly processes have been done before operating.
- Sometimes it may be difficult to make a turn, especially when it is going up the slope or running on bumpy places, however, it does not indicate the vehicle has any troubles.
- Check the screws and nuts at all times to avoid looseness.

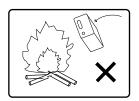
WARNING

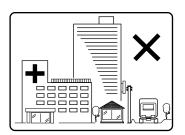
To avoid accidents and personal injuries, please observe the following items:

- Handling the fuel safely:
 - only use the fuel outdoors
 - only use the fuel specified.

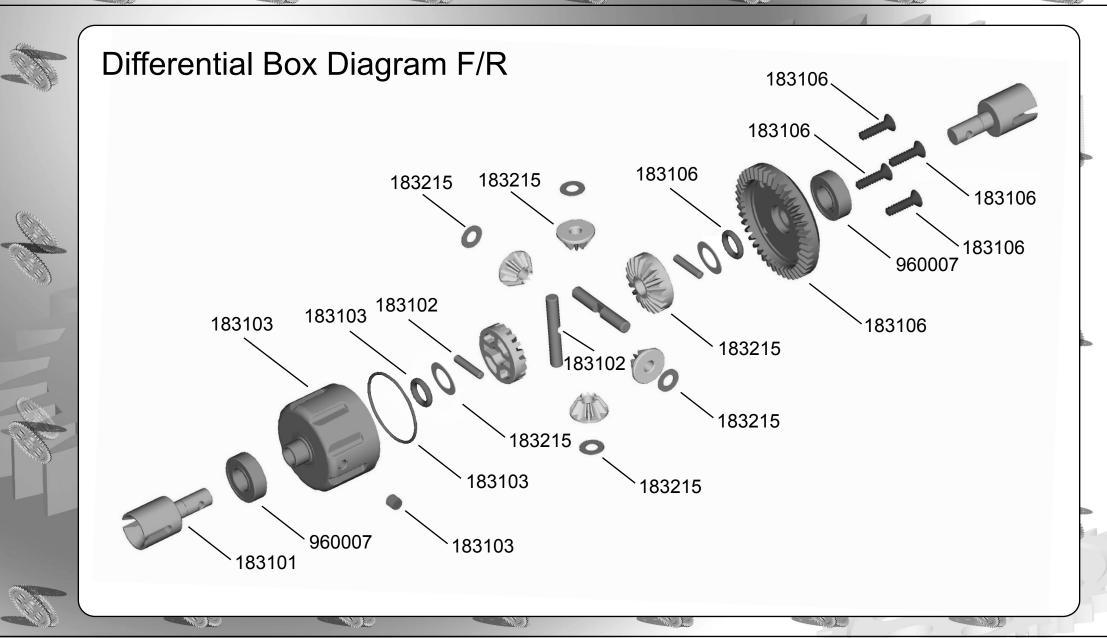
- never use the fuel indoors or near the fire and sources of heat.
- never drink the fuel or spatter into your eyes.
- only keep the fuel in cool, dry and dark places where your children can not reach for it. Make sure that you have fasten the cover tight!
- never put your fingers or any objects into rotating parts.
- never touch the engine and muffler they are in motion.

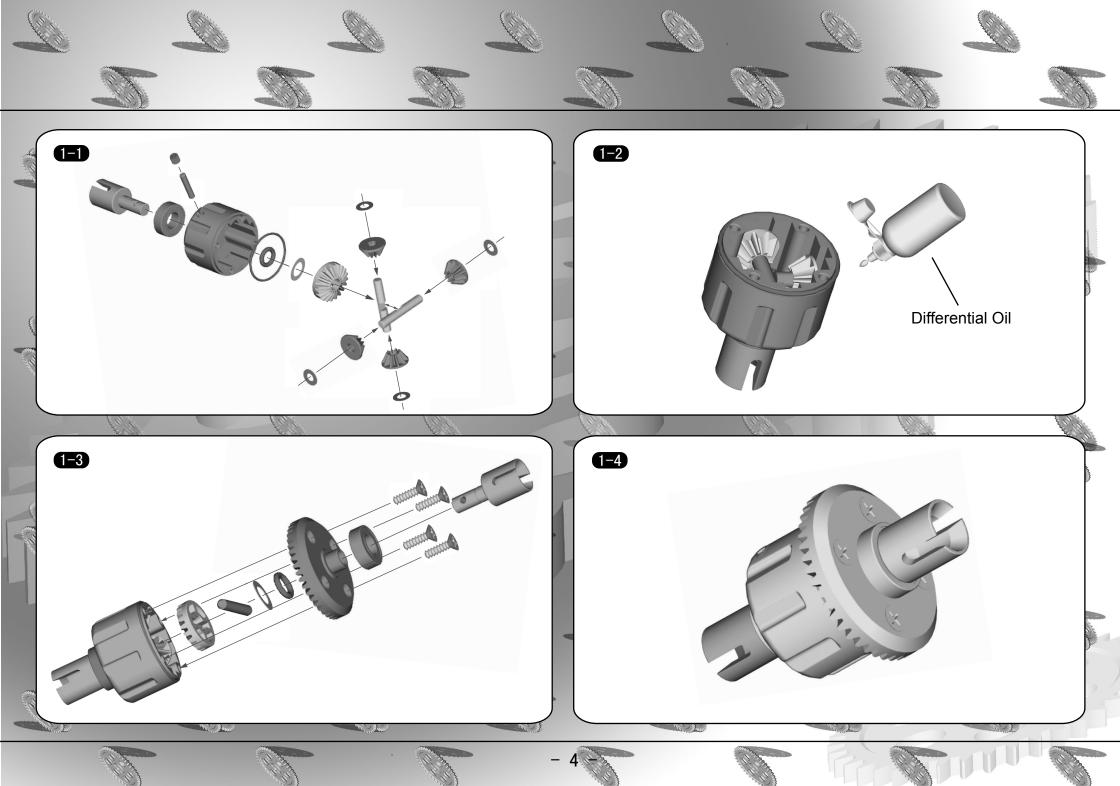
 Dangers of burning yourself.



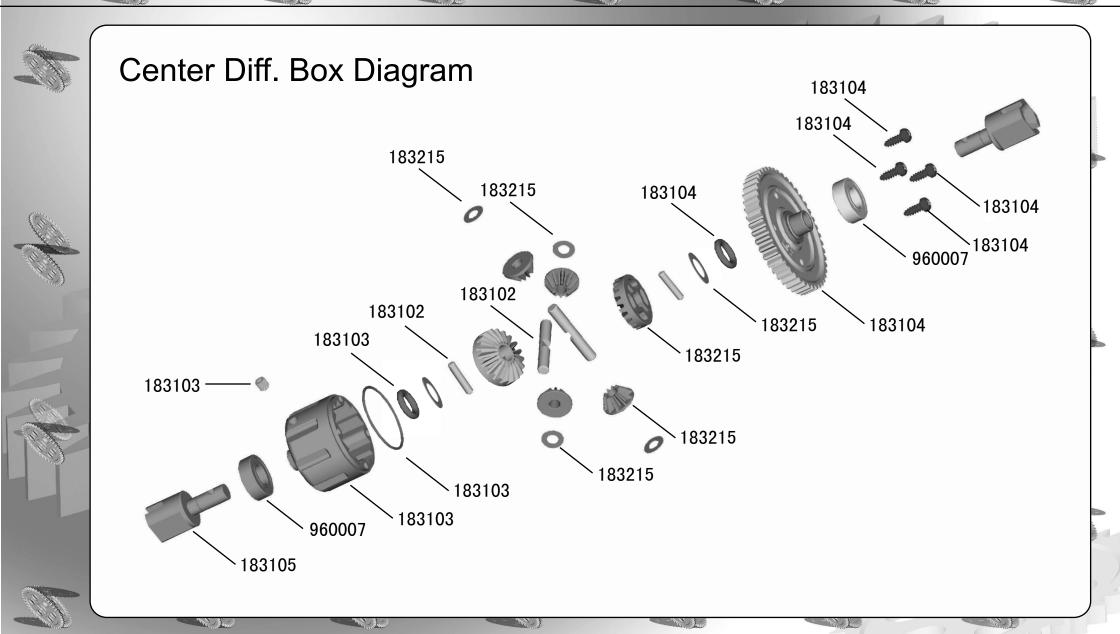


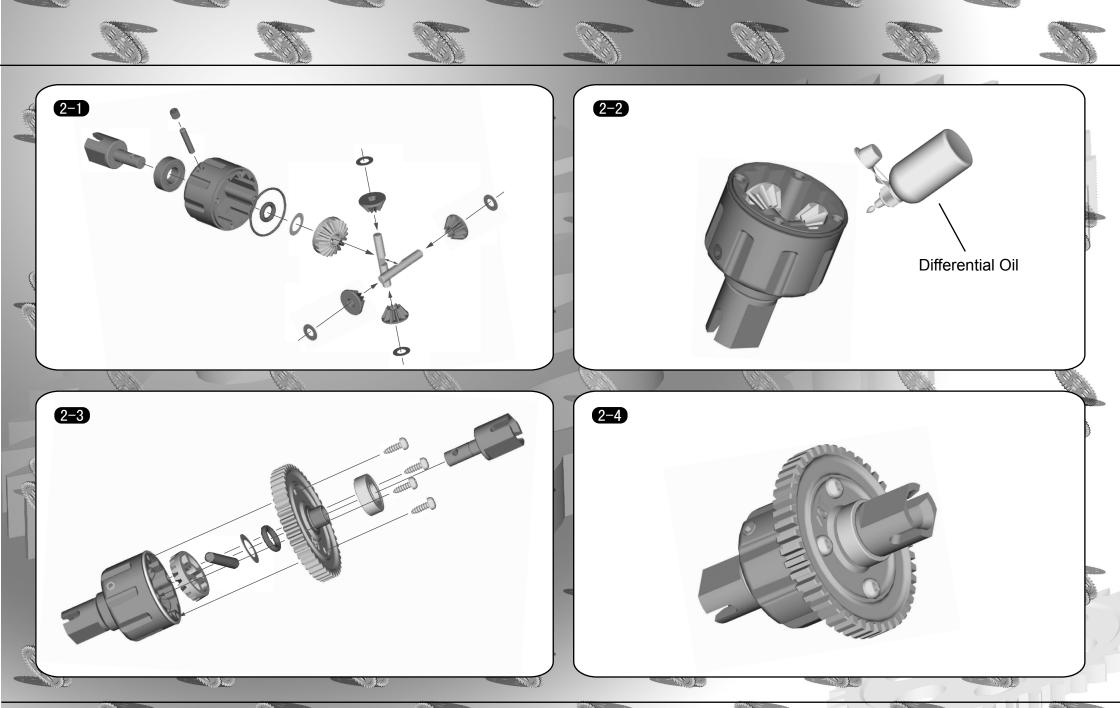




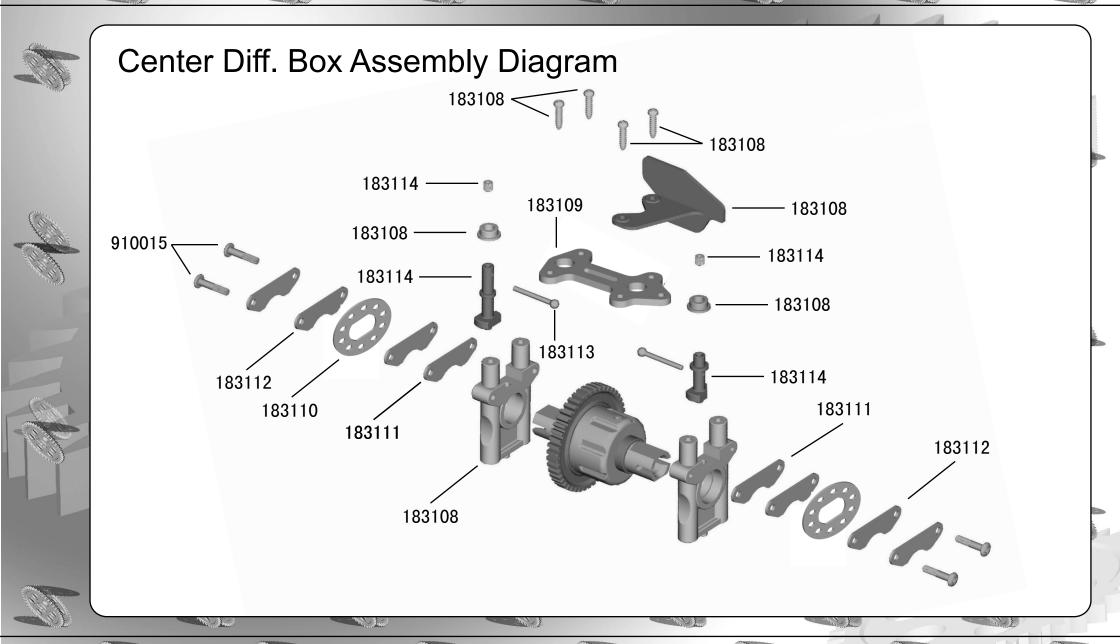


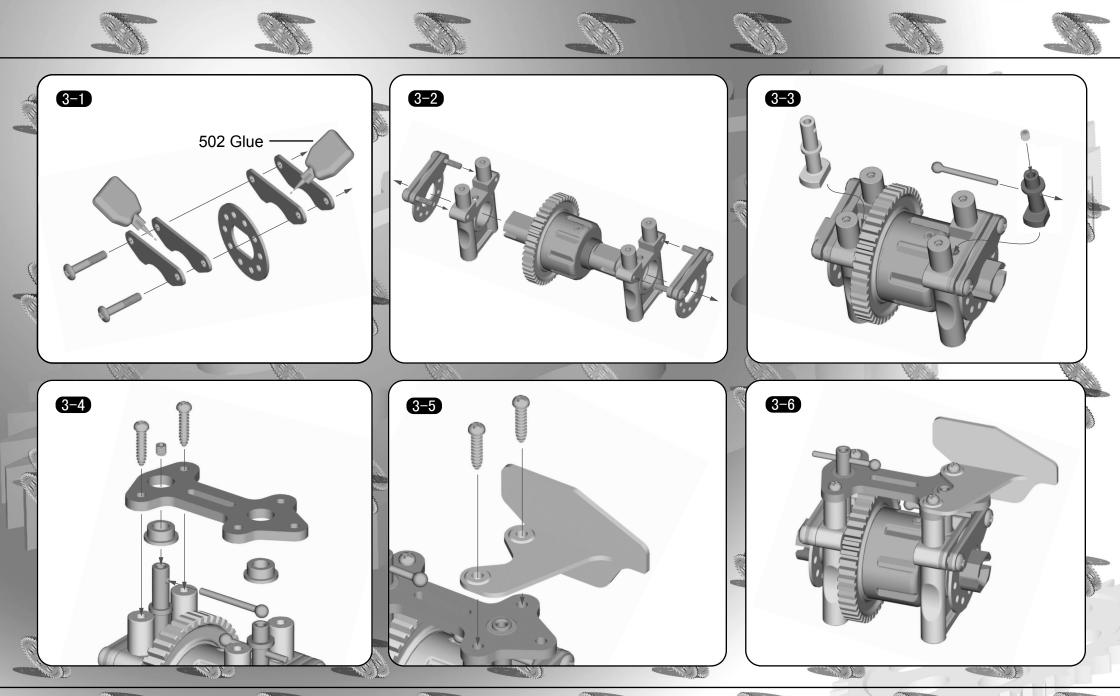




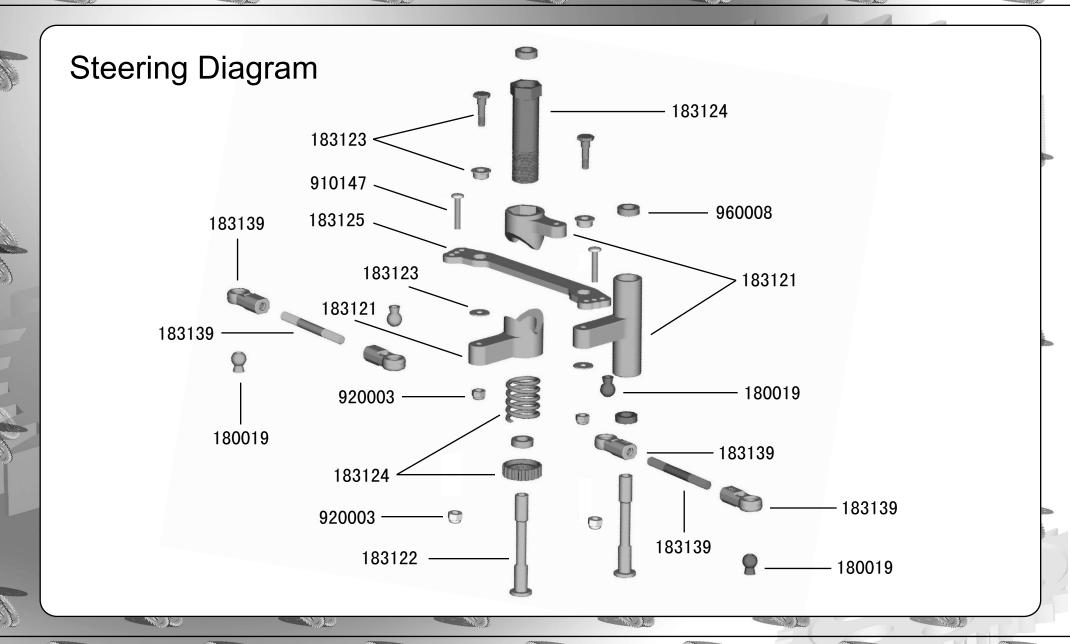


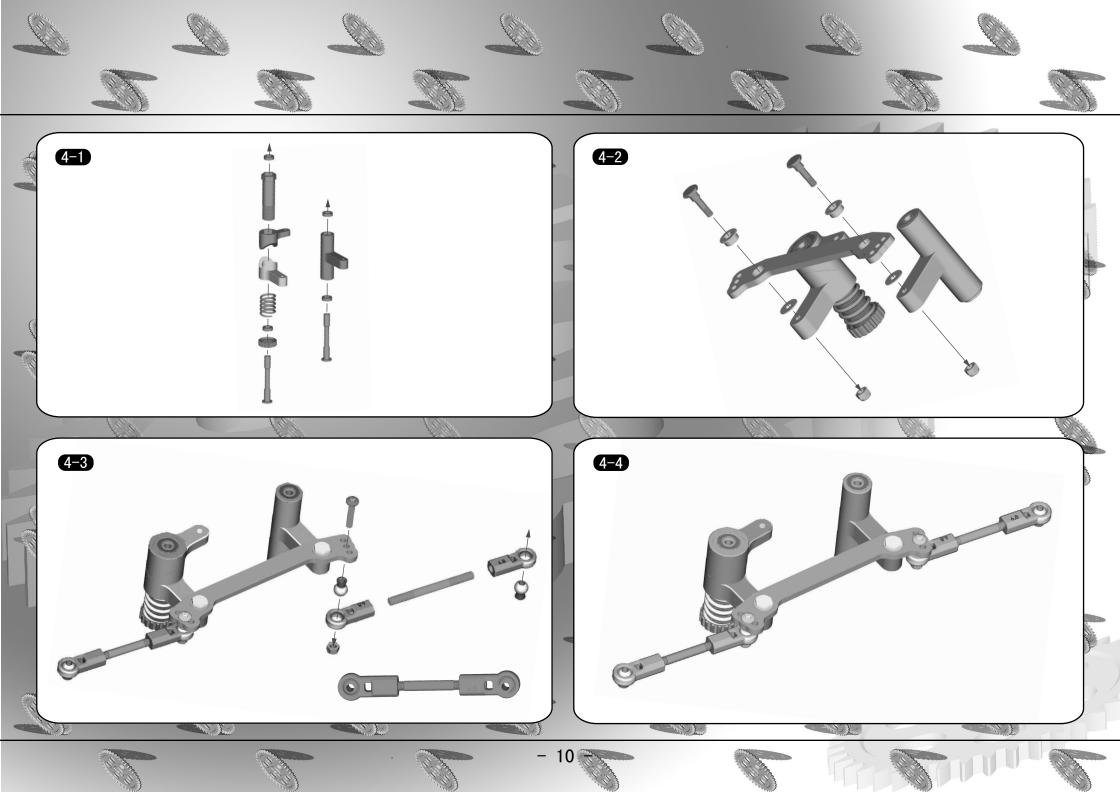




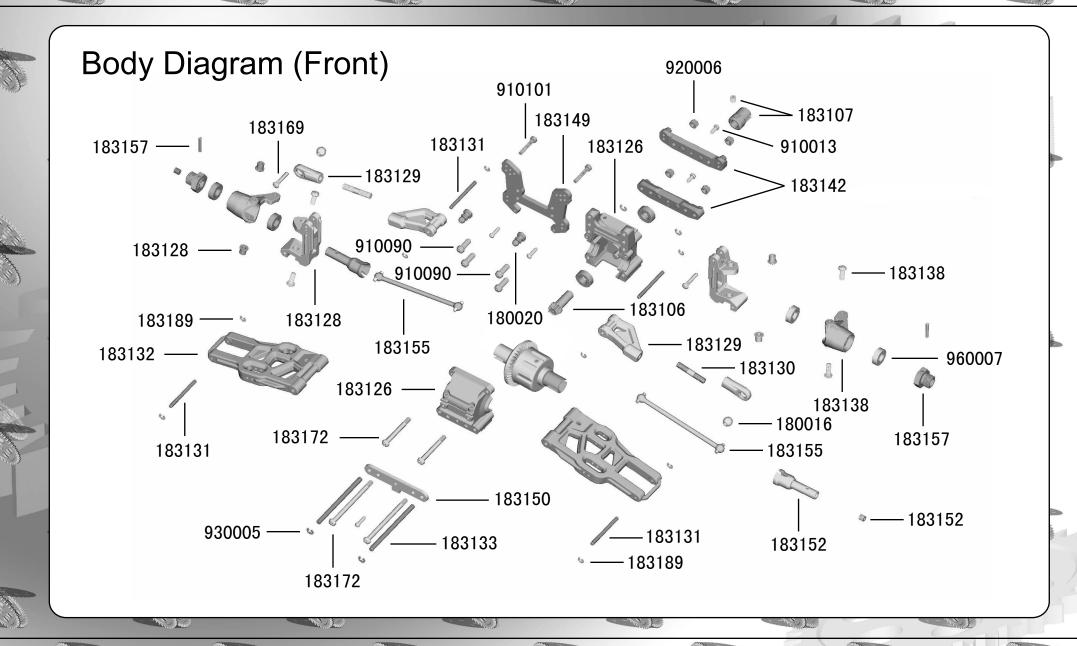


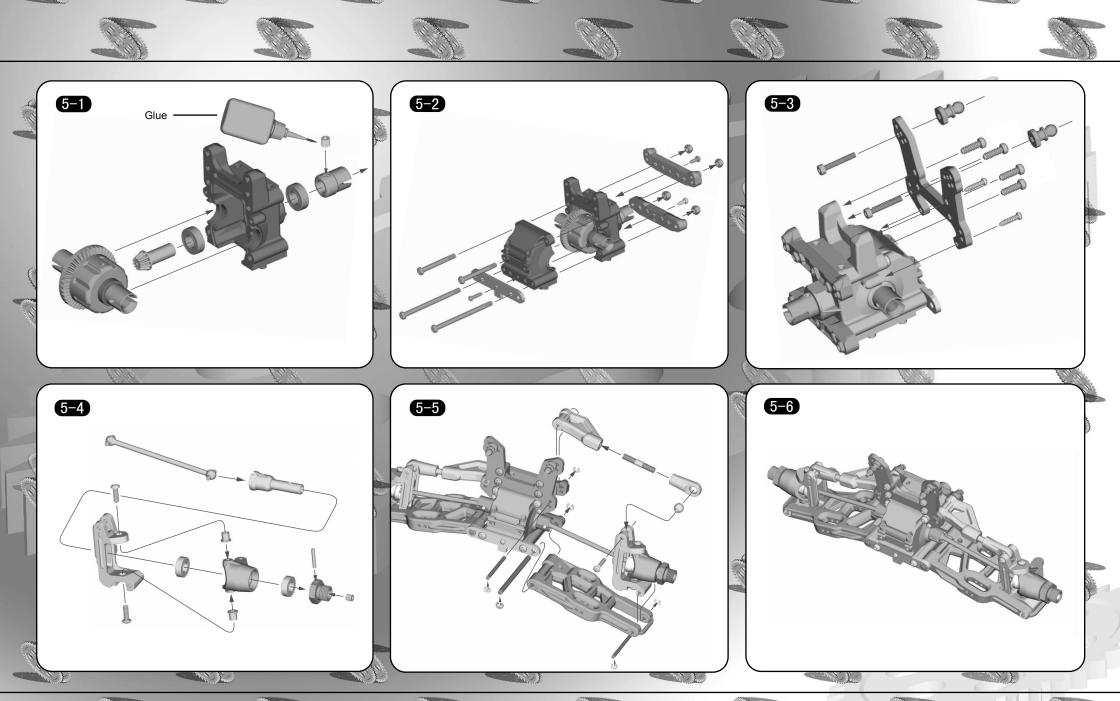




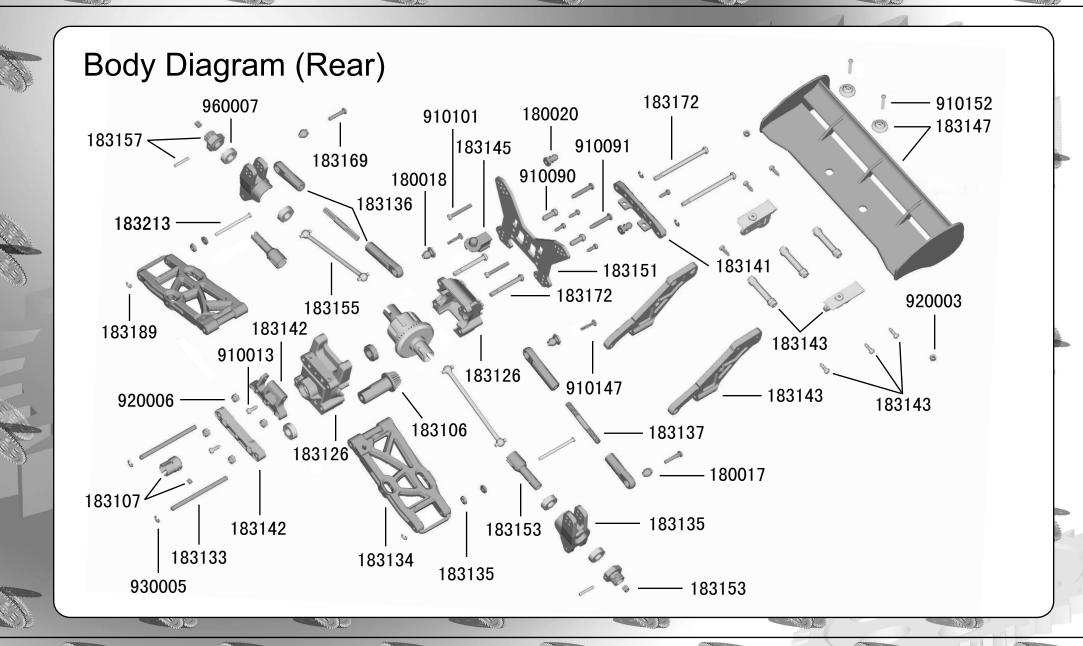


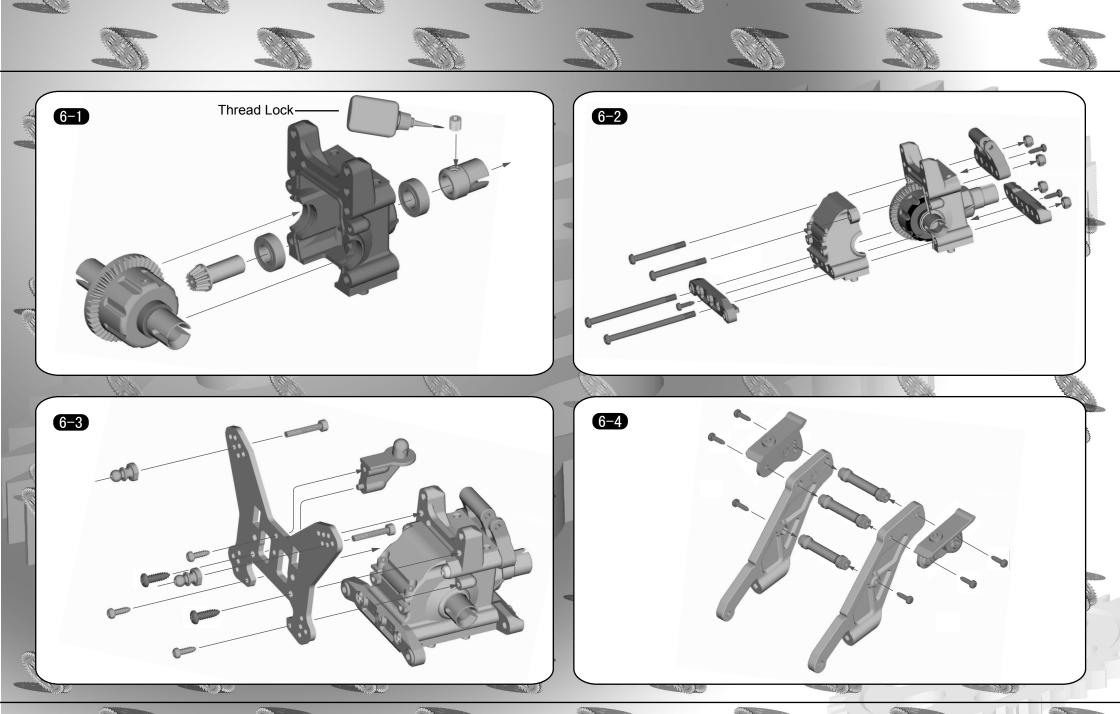


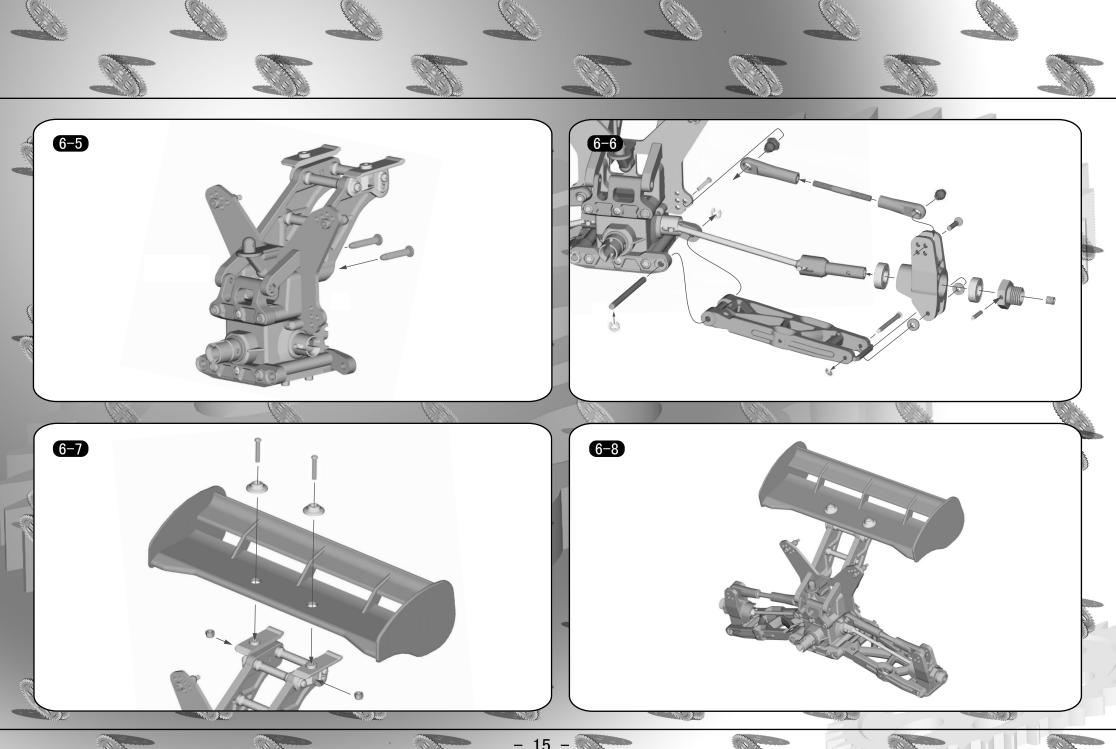


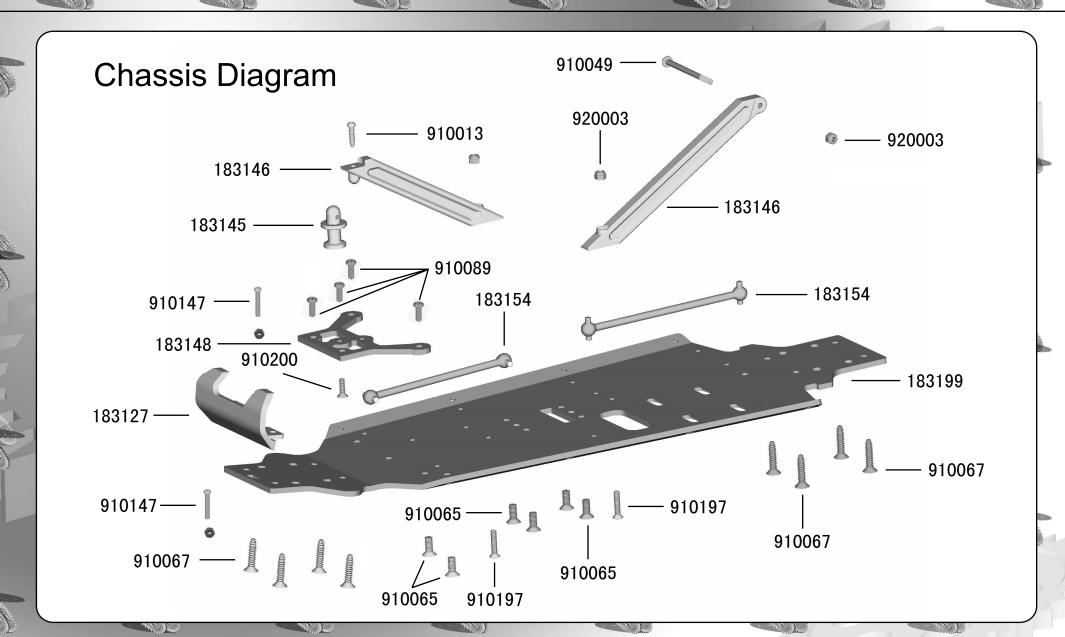


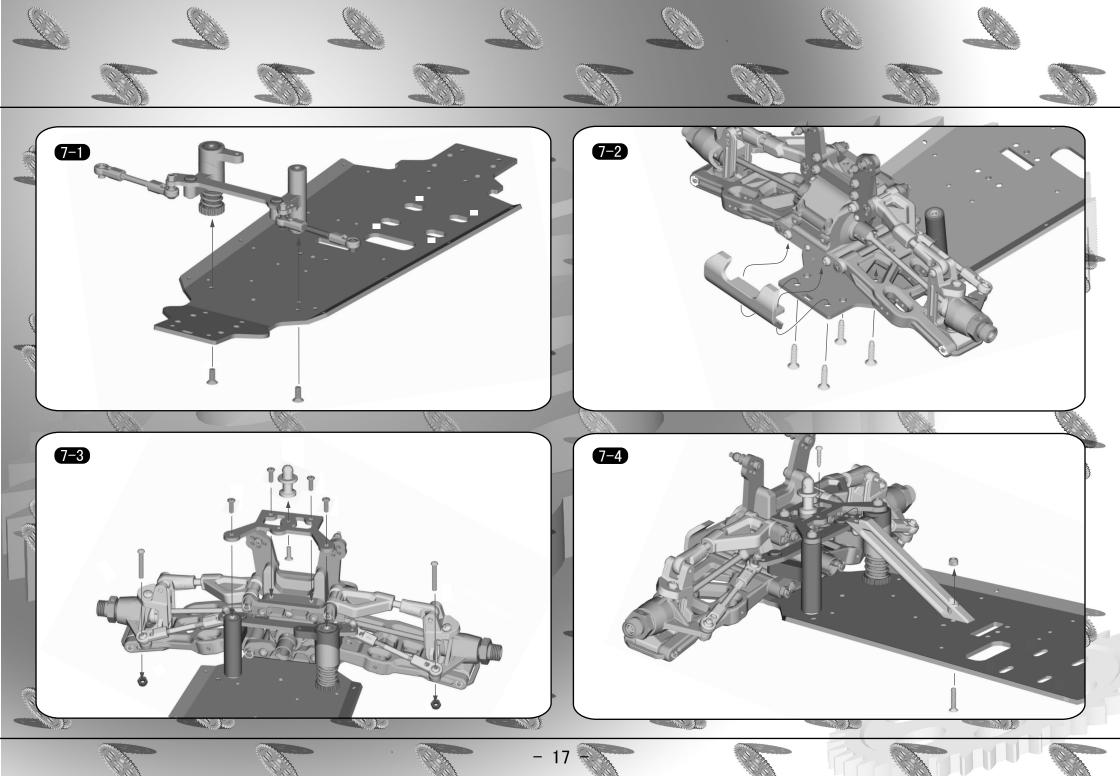


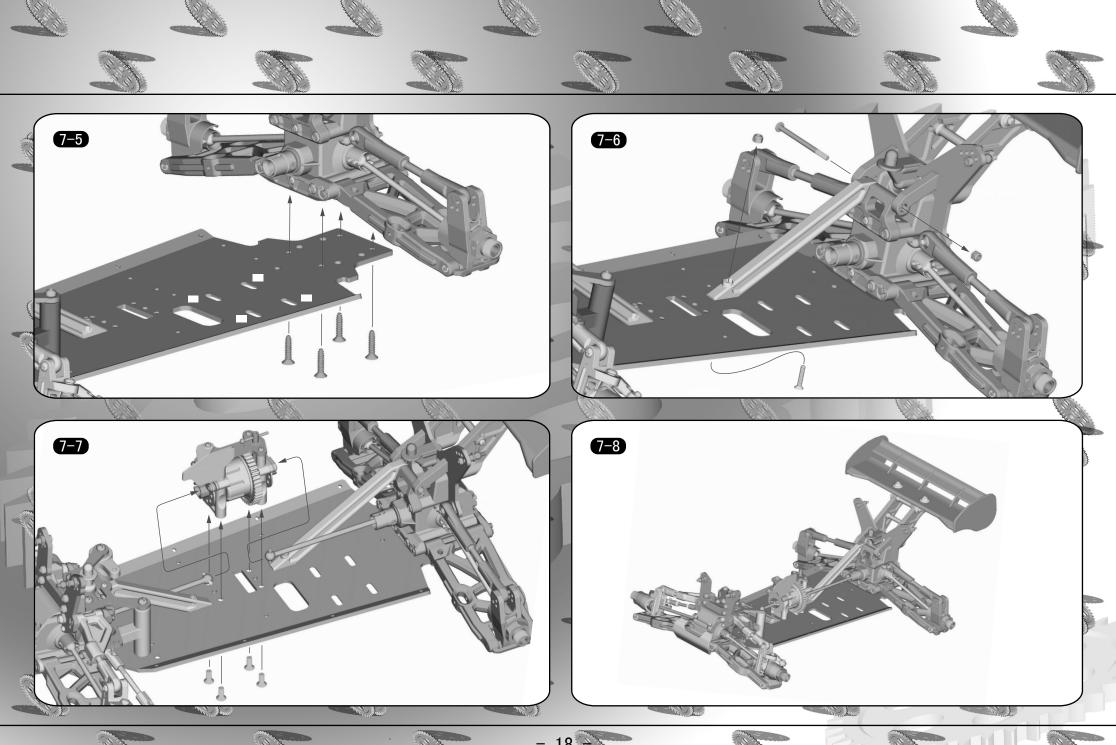




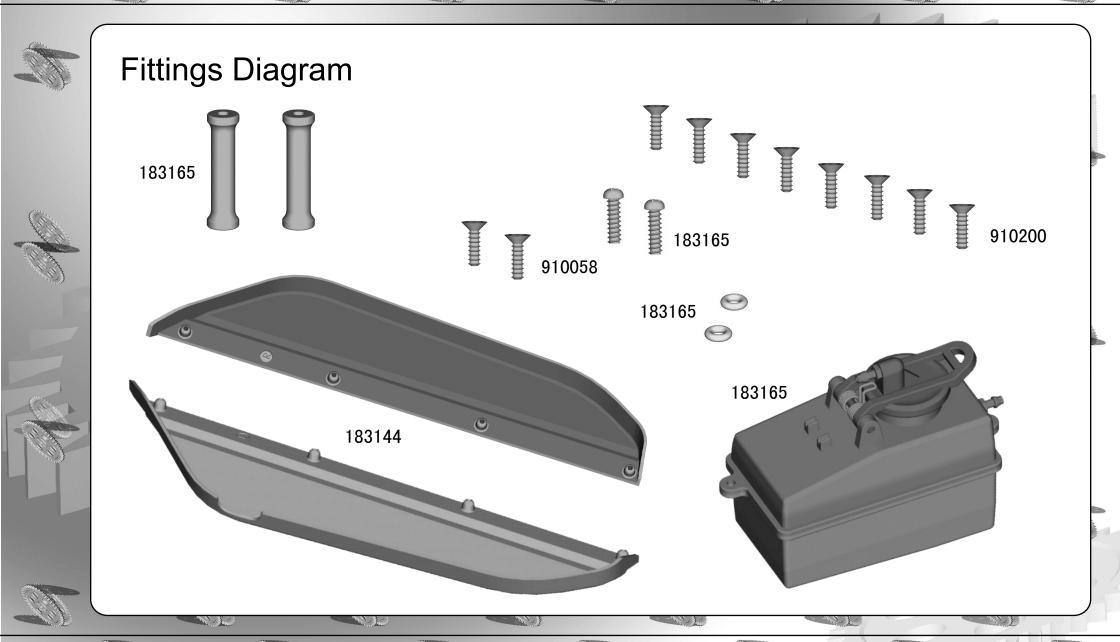


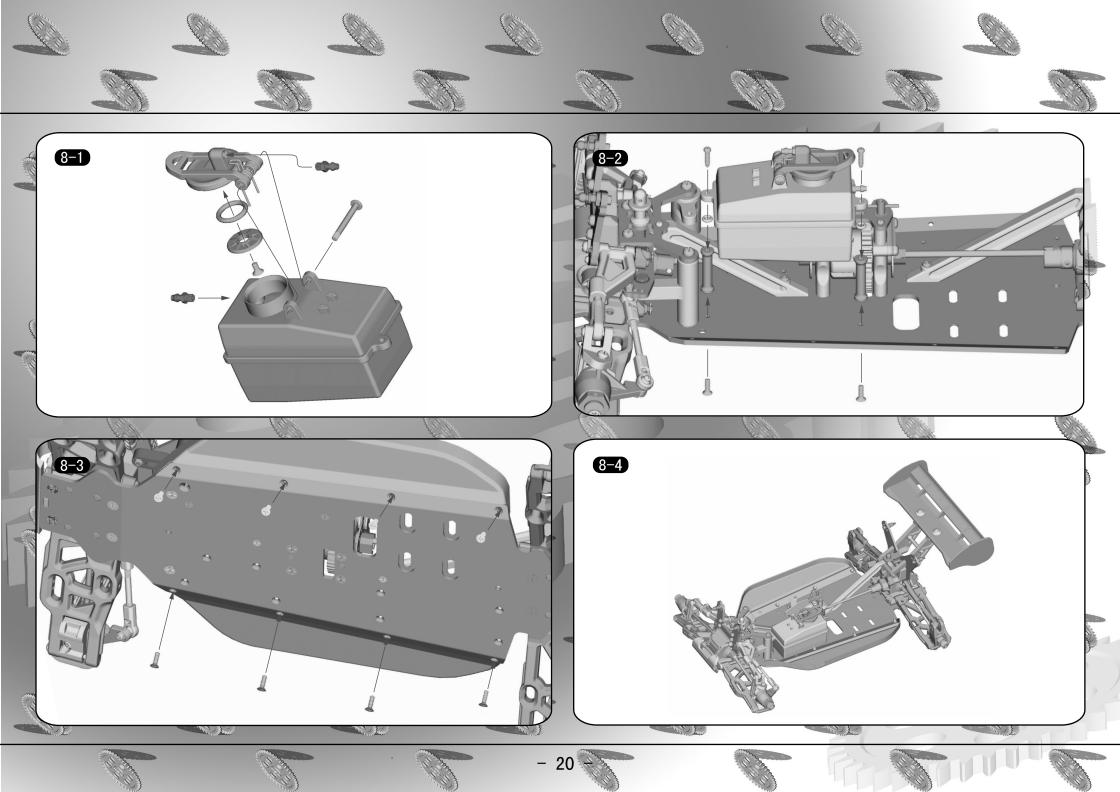




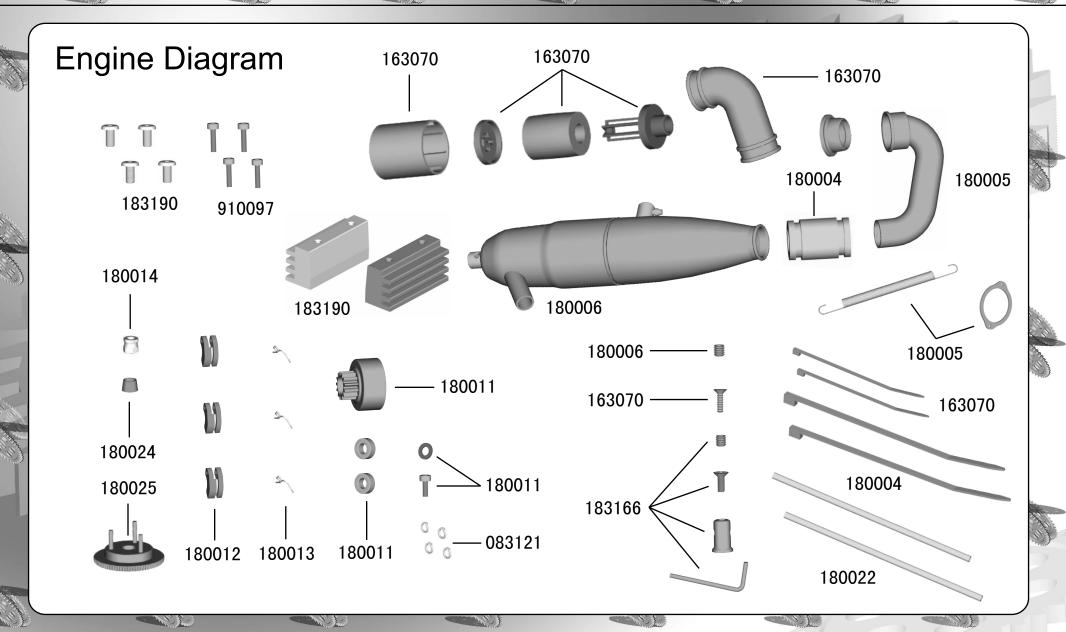


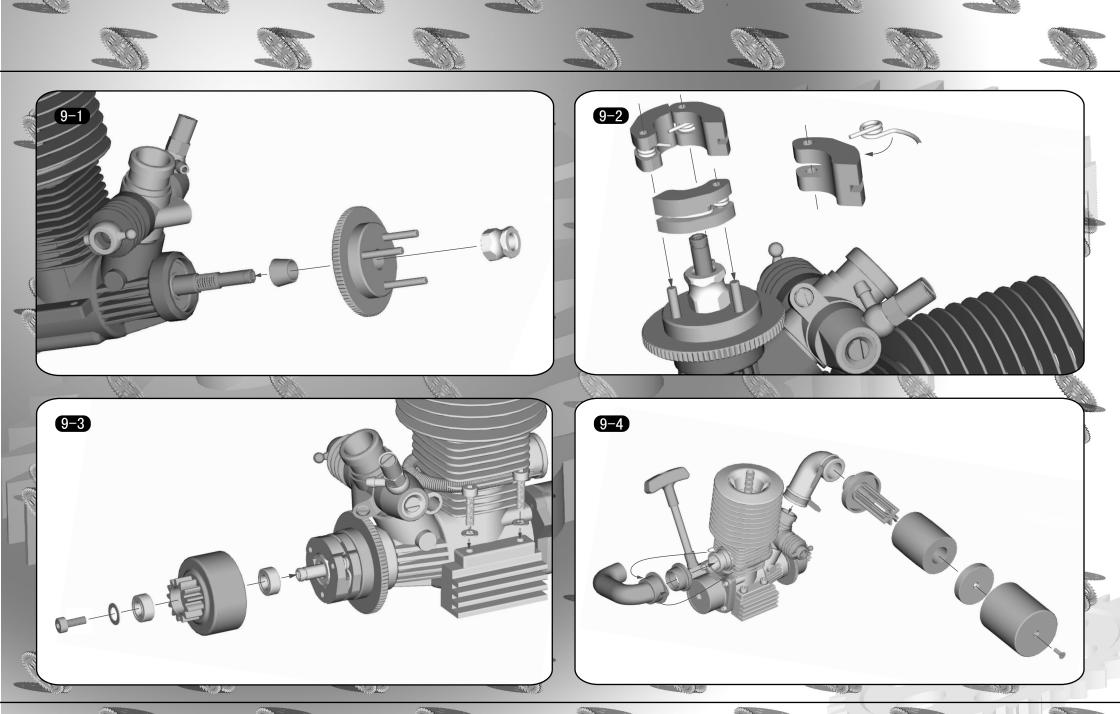


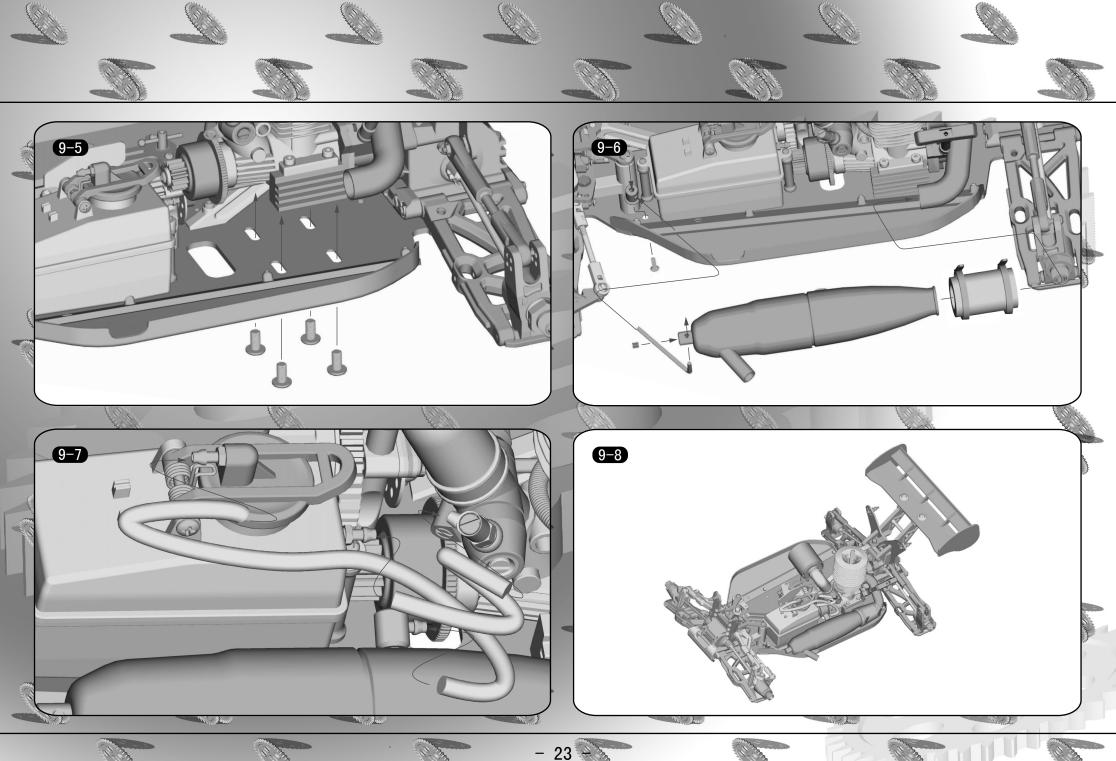




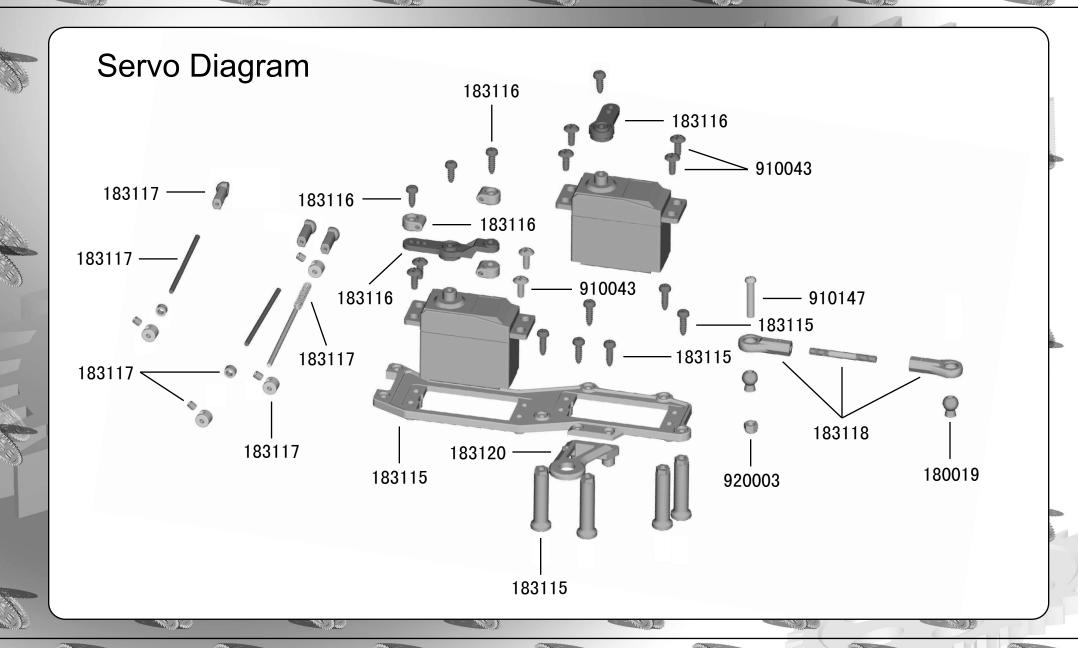


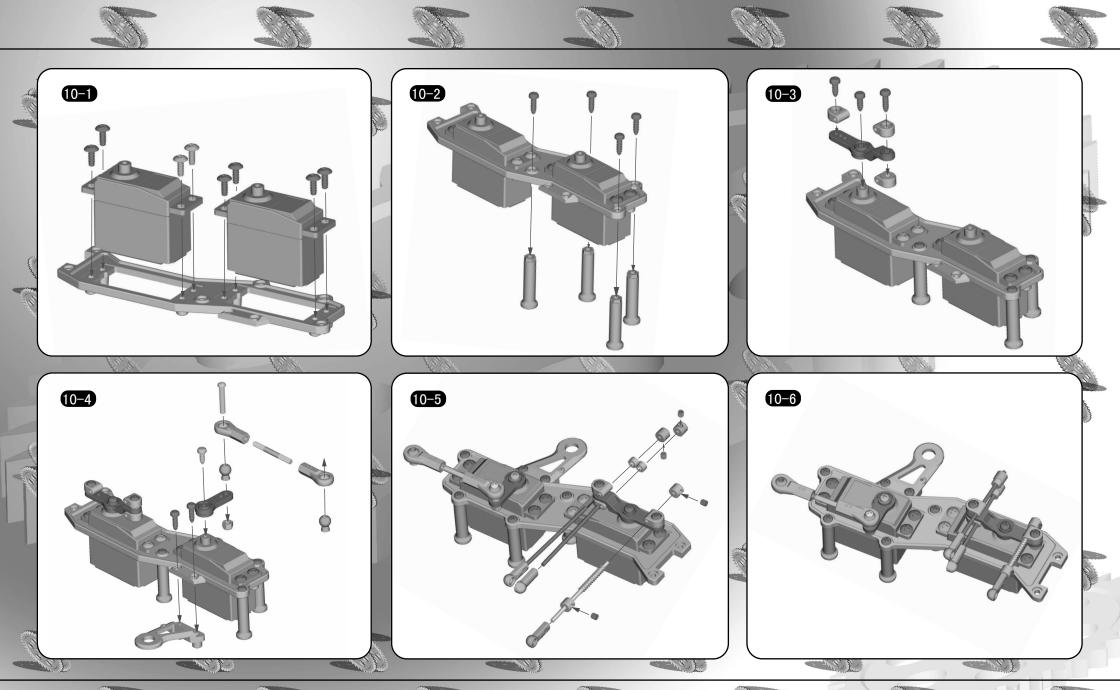




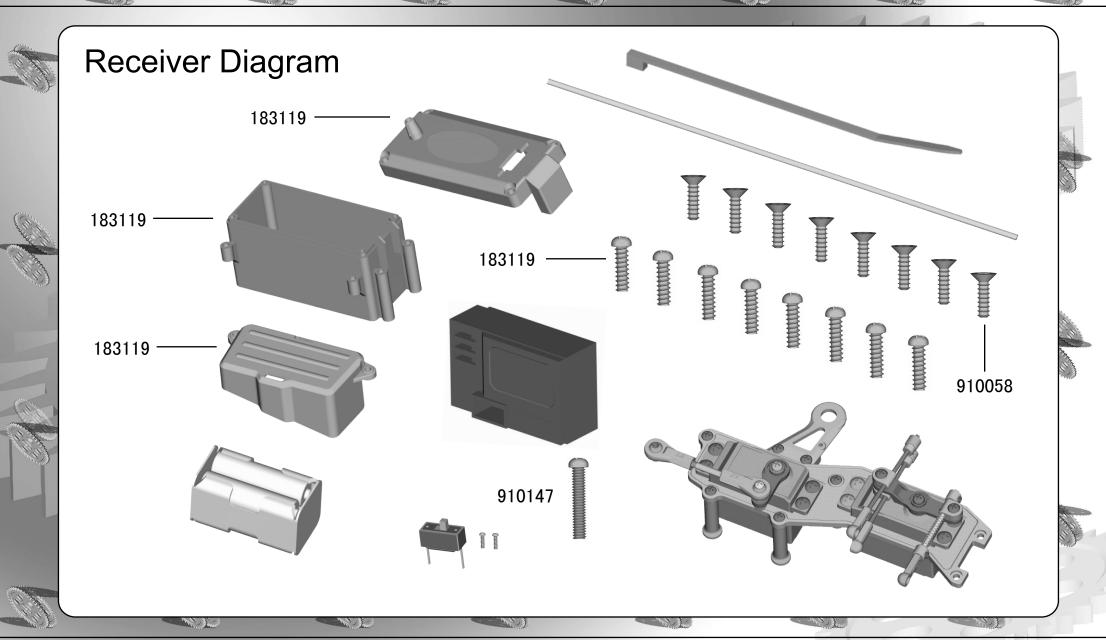


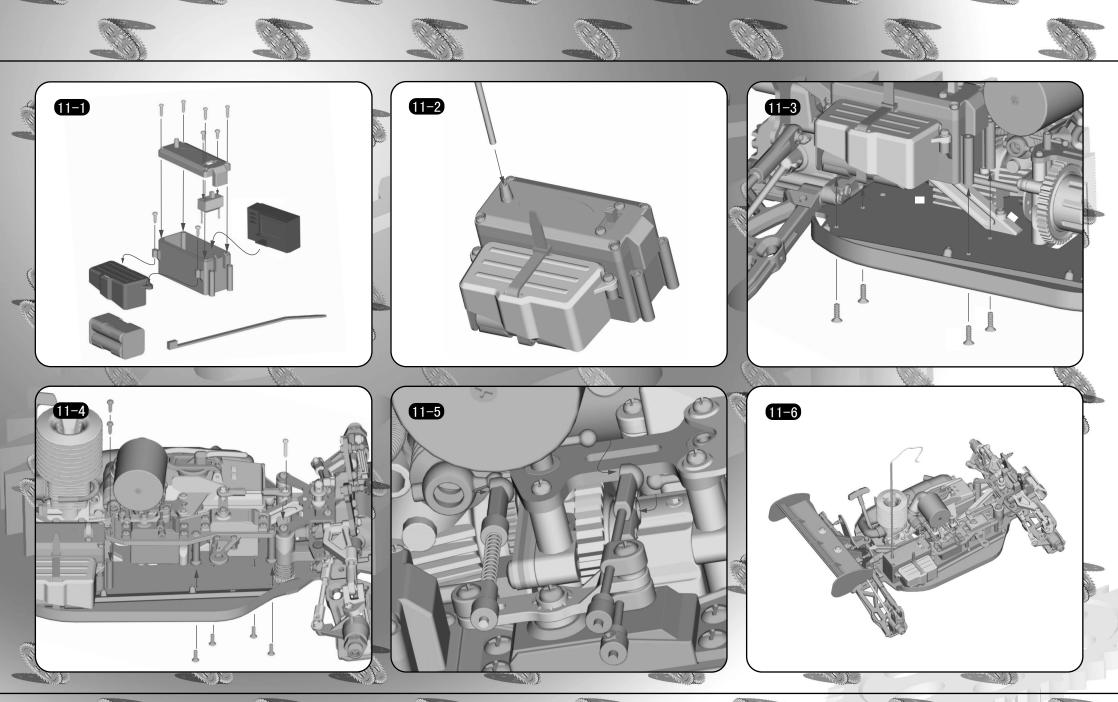




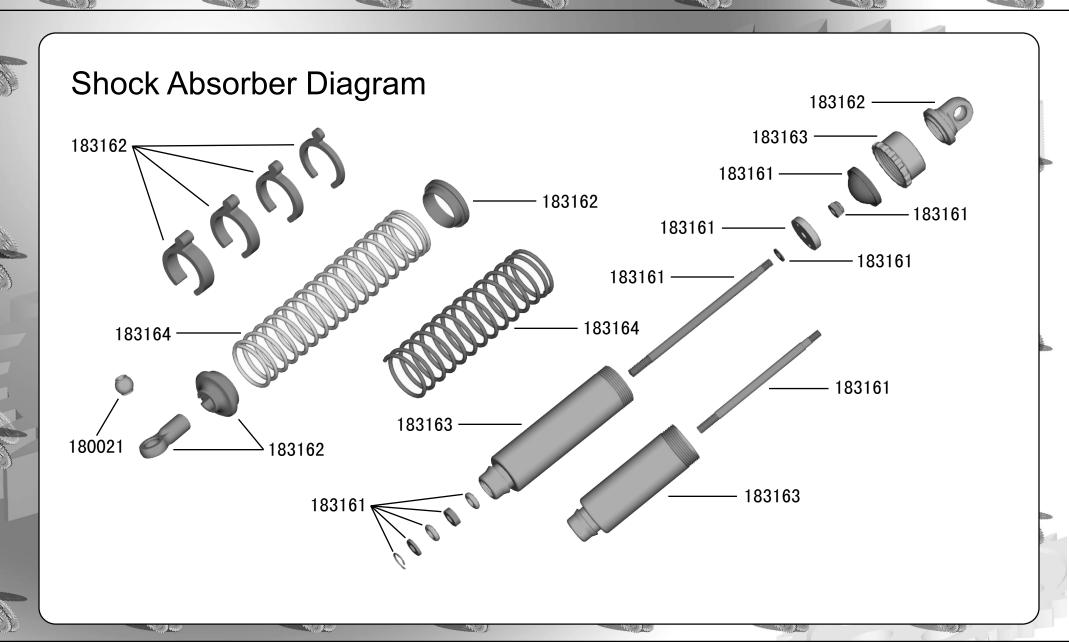


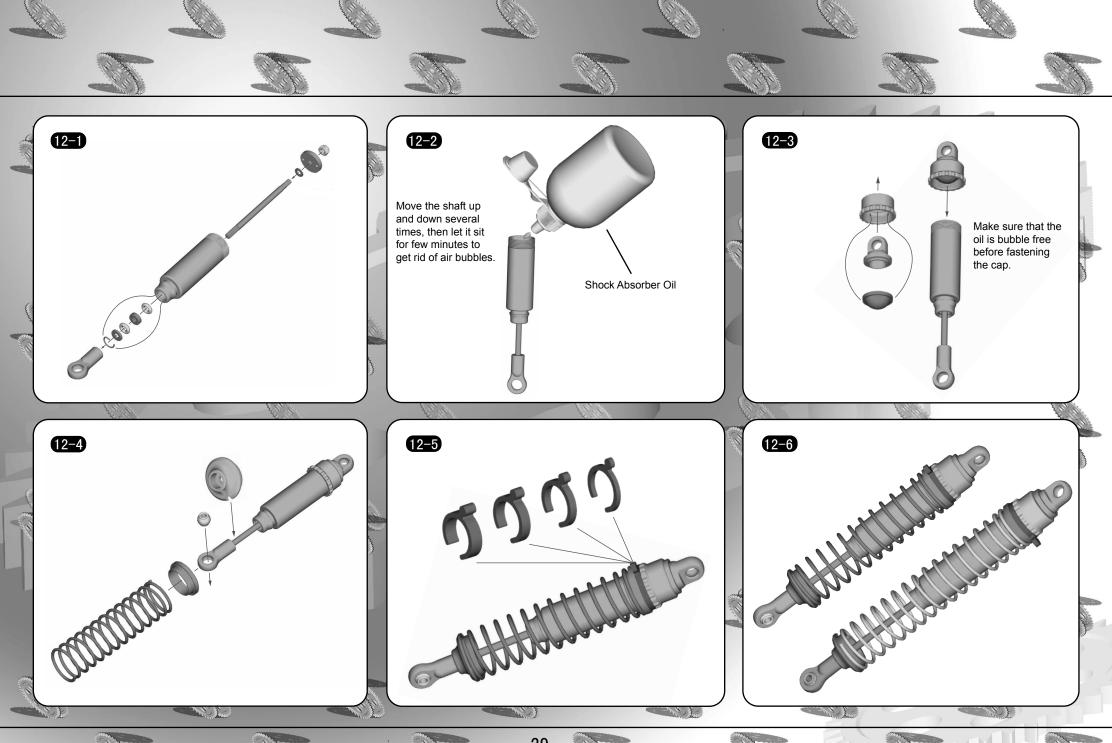


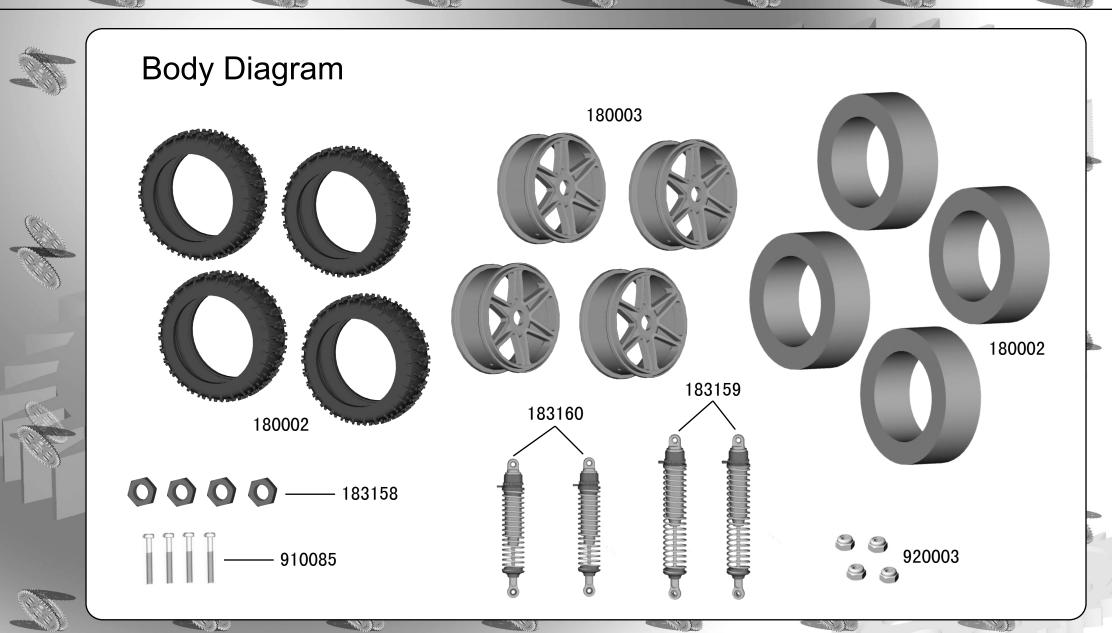


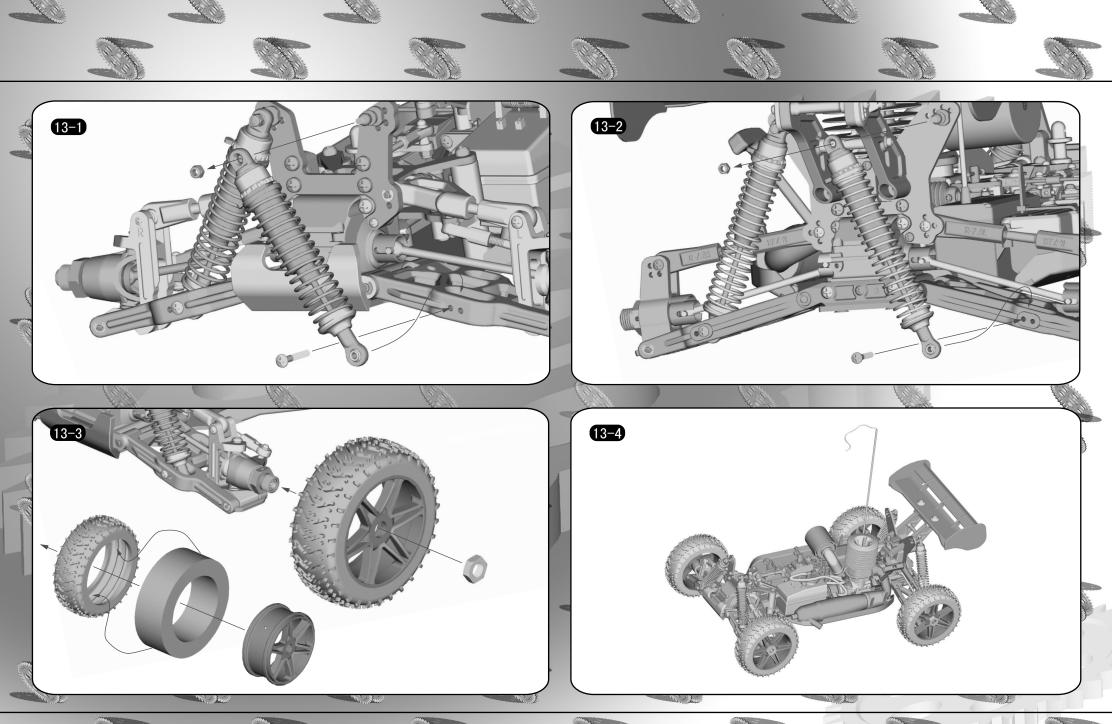












Part list of 083420 Off-Road Buggy (1)

183215- x 1 set Differential Bevel Gear Set	183101- x 2 pcs Differential Outdrive	183102- x 1 set Differential Shaft Set	183103- x 1 set Differential Shell Set M4*4 x 1pc	183217- x 1 set Steel Center Differential Gear w/ Ring 3*10 x 4pcs
183105- x 2 pcs Center Differential Outdrive	183106- x 1 set Pinion Gear w/ Ring Set 3*10 x 4pcs	183107- x 2 set Outdrive for Steel Pinion Gear M5*5 x 1pc	183108- x 1 set Center Differential Holder Set 3*12 x 4pcs	183109- x 1 pc Center Differential Brace
183110- Brake Disc x 2 pcs	183111- x 4 pcs Brake Susp. Mount	183112- x 4 pcs Brake Hinge Pin	183113- Brake Rod x 2 pcs	183114- x 1 set Brake Shaft M3*3 x2 pcs
183115- x 1 set Upper Plate Set 3*10 x4 pcs	183116- x 1 set Throttle Sliding Block Set	183117- x 1 set Throttle Rod	183118- Servo Rod	183119- x 1 set Receiver case 3*10 x6 pcs

Part List of 083420 Off-Road Buggy (2)

183120- x 1 set Transponder Mount	183121- x 1 set Steering Arm Set	183122- x 2 set Steering Shaft Steel	183123- x 2 set Steering Screw Set	183124- x 1 set Servo Savor Column
183125- x 1 pc Steering Plate	183126- x 1 set Differential Box F/R	183127- x 1 pc Front Bumper	183128- x 1 set C Hub Front	183129- x 2 set Frong Upper Suspension Arm Set
			x 4pcs	
183130- x 2 pcs Turnbuckle ∅ M5 * 30	183131- x 2 pcs Suspension Shaft	183132- x 2 pcs Front Lower Susp. Arm	183133- x 2 pcs Suspension Hinge Pin	183134- 2 pcs Rear Lower Suspension Arm
183135- x 1 set Rear Hub Carrier Set	183136- x 2 set Rear Ball End Set	183137- x 2 pcs Turnbuckle M5*50	183138- x 1 set Steering Arm	183139- x 2 set Steering Tie Rod
			M4*12 x 4pcs	

Part List of 083420 Off-Road Buggy (3)

183140- Toe-in Block 3 Degree	x 1 pc	183141- Toe-in Block 2 Degree	х 1 рс	183142- Hinge Pin Set	x 1 set	183143- Wing Mount	x 1 set	183144- Side Guard	x 1 set
						© (IIIIIII 3*1	2 x6 pcs	6 6	
183145- Car Body Post F/R	x 1 set	183146- F/R Brace	x 1 set	183247- Wing w/ washer	x 1 set	183148- Front Differential Brace	x 1 pc	183149- Front Shock Tower	x 1 pc
	8						2)		
183150- Front Hinge Pin	x 1 pc	183151- Rear Shock Tower	x 1 pc	183152- Front Outdrive	x 2 set	183153- Rear Outdrive	x 2 set	183154- Dogbone	x 1 set
	• 6								2
183155- Dogbone	x 4 set	183199- Chassis	x 1 pc	183157- Hex. Joint Set	x 4 set	183158- Hex. Nut	x 4 pcs	183159- Shock Absorber (Long)	x 2 set
						6)		

Part List of 083420 Off-Road Buggy (4)

183160- x 2 set Shock Absorber (Short)	183161- 1 set Shock Service Kit	183162- x 4 set Shock Absorber Fittings	183163- x 2 set Shock Absorber Cylinder Set	183164- x 2 set Shock Spring
	x4 x4			
183165- x 1 set Fuel Tank Unit	183166- x 1 set Holding Set for Exhaust Pipe	183169- x 4 pcs Screw Shaft 3*18	083121- \times 1 set Spring Washer \emptyset 3	183190- x 1 set Engine Mount
	M4*4 x1 pc M4*10 x1 pc		00000	ISO 5*10 x4 pcs
183213- x 2 pcs Suspension Shaft	183172- x 1 set Screw for Differential Box	183173- x 1 pc Car Body	183174- x 1 set Body Decal	180001- x 2 pcs Wheel Rim
	M4*37 x2 pcs M4*62 x2 pcs		The state of the s	
180002- x 2 set Tire w/ insert	180003- x 2 pcs Tire Unit	180004- x 1 set Sillica Connecting Pipe	180005- x 1 set Manifold w/ Washer Set	180006- 1 set Exhaust Pipe
				M4*4 x1 pc

Part List of 083420 Off-Road Buggy (5)

180024- Engine 21CX	x 1 pc	163070- Air Filter Set	1 set	163071- Air Foam Set	x 1 set	180012- Clutch Shoe	x 3 pcs	180013- Clutch Spring	x 3 pcs
180014- Engine Nut	х 1 рс	180025- Flywheel for Engine	x 1 set	180016- Ball End 7.8*7	x 2 pcs	180017- Ball End 7.8*9	x 2 pcs	180018- Ball End 7.8*10.5	x 2 pcs
180019- Ball End 6.8*9	x 6 pcs	180020- Ball End 6*13	x 4 pcs	180021- Ball End 6.8*6.3*6	x 4 pcs	180022- Oil Pipe	x 1 set	180023- Body Pin	x 4 pcs
180011- Clutch Shell Set M3*8 x	x 1 set	910096- Round Head Screw ISO M3*8	x 6 pcs	910013- Round Head Screw TPB 3*10	x 6 pcs	910014- Round Head Screw TPB 3*12	x 6 pcs	910015- Round Head Screw 3*15 Worm	x 6 pcs 7mm

Part List of 083420 Off-Road Buggy (6)

910152- x 6 pcs	910065- x 6 pcs	910067- x 6 pcs	910147- x 6 pcs	910085- x 6 pcs
Round Head Screw ISO 3*18	Flat Head Screw M4*10	Flat Head Screw TPF 4*18	Round Head Screw ISO 3*16	Round Head Screw 3*22 wrom 15mm
	<	<		
910086- x 6 pcs	910049- x 6 pcs	910130- x 6 pcs	910131- x 6 pcs	910139- x 6 pcs
Round Head Screw 3*27 worm 4mm	Round Head Screw ISO 3*45	Set Screw M3*3	Set Screw M4*4	Set Screw M5*5
	© (<u> </u>			
910089- x 6 pcs	910090- x 6 pcs	910091- x 6 pcs	910197- x 6 pcs	910101- x 6 pcs
Round Head Screw ISO 4*10	Round Head Screw TPB 4*12	Round Head Screw TPB 4*22	Flat Head Screw ISO 3*16	Round Head Screw ISO M3*20
			<=	
910058- x 6 pcs	910097- x 6 pcs	910017- x 6 pcs	910200- x 6 pcs	910016- x 6 pcs
Flat Head Screw TPF 3*10	Round Head Screw ISO M3*10	Round Head Screw ISO 3*10	Flat Head Screw TPF 3*8	Round Head Screw ISO 4*12
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Part List of 083420 Off-Road Boggy (7)

910043- Button Head Screw TT 3*10 x 6 pcs	910041- x 6 pcs Button Head Screw TT 3*6	920001- x 6 pcs Nylon Locknut M2.5	920003- x 6 pcs Nylon Locknut M3	920006- x 6 pcs Nylon Locknut M4
183189- x 6 pcs E-clip Φ2.3*0.5T	930005- \times 6 pcs E-clip \oplus 3	960007- x 6 pcs Bearing 8*16*5	960008- x 4 pcs Bearing 6*10*3	960001- x 4 pcs Bearing 10*5*4
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Upgrade Part List of 083420 (1)

183302- Clutch Shell 14T	х 1 рс	183303- Center Differential Steel Gear	x 1 pc	183304- x 1 Upper Plate Post ISO 3*10 x8 pcs	1 set	183318- Hub Carrier Rear	x 1 set	183308- Rear Lower Susp. Mount	х 1 рс
183309- Rear Upper Susp. Mount	x 1 pc	183310- Front Lower Susp. Mount	x 1 pc	183311- x 7 Front Upper Susp. Mount	1 pc	183322- Steering Arm	x 1 set	183313- F/R Brace	x 1 set
183314- Rear Shock Tower	x 1 pc	183315- Front Shock Tower	x 1 pc	180016- x Toe-in Block 3 Degree	1 pc	183317- Toe-in Block 2 Degree	x 1 pc	183319- Wing Post ISO 3*12 x	x 1 set
183320- Fixed Post for Exhaust Pipe	x 1 pc	183343- Front Hinge Pin	х 1 рс	183323- x 2 Front Universal Drive Shaft	e pcs	183324- Rear Universal Drive Shaft	x 2 pcs	183325- Center Universal Drive Shaft	x 1 set

Upgrade Parts List of 083420 (2)

183326- x 1 pc Chassis	183327- x 1 pc Pinion Gear 13T	183328- x 1 pc Steel Diff. Gear 43T	183333- x 1 set Anti-Roll Bar F/R	183334- x 2 pcs Washer for Wing
183338- x 2 set Turnbuckle Set	183340- x 2 pcs Turnbuckle M5*50	183341- x 2 pcs Turnbuckle M5*30	183342- x 1 pc Upper Plate	183345- x 2 pcs Differential Outdrive
183346- x 2 pcs Pinion Gear Outdrive	183347- x 2 pcs Center Diff. Outdrive	183348- x 1 pc Differential Brace	183349- x 1 pc Steering Plate	183357- x 2 pcs Engine Mount