



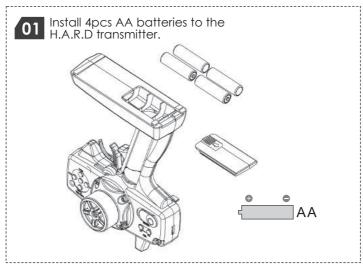




Instruction & Setup Manual

1 Tramsmitter Function TH Trim(+) TH EPA(+) ST EPA(L) ST Trim(+) ST EPA(+) TH EPA(-)







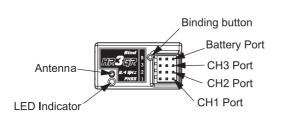
■ Turn the steering wheel right to turn the front tires go



3 Binding (connecting the receiver to transmitter)

Binding the Receiver to the Transmitter

"Binding" is tuning receiver to the frequencies used by the transmitter. Bind the receiver to the transmitter as follows:



- 1. With both transmitter and receiver turned off, place the units no more then 30 cm (1ft) apart.
- 2. While holding down the receiver's BIND button, apply power to the receiver. Its LED will start to flash steadily, indicating that the unit is in binding mode, a state that lasts up to 30 seconds.
- 3. Turn the transmitter on. It will immediately go into binding mode, a state that lasts one second.
- 4. When the receiver's LED shines steadily, binding complete.

Thanks for purchasing our electronic speed controller(ESC). The power system for RC model can be very dangerous, please read this manual carefully. In that we have no control over the correct use, installation, application, or maintenance of our products, no liability shall be assumed nor accepted for any damages, losses or costs resulting from the use of the product.

- Water-proof and dust-prooffor all weather races.

- Small size with built-in capacitor module.
 Automatic throttle range calibration, easy to use.
 Multiple protections: Low voltage cut-off protection for Lipo or NiMH battery / Over-heat protection / Throttle signal loss protection.
- 5. Easily programmed with the jumpers

[SPECIFICATIONS]

	Model	WP-1040-BRUSHED WP-1040-BRUSHED-Crawler& Boat *	WP-1060-BRUSHED	
Cont. / Burst Current		Forward: 40A / 180A	Forward: 60A / 360A	
Com	. / Burst Current	Backward: 20A / 90A	Backward: 30A / 180A	
Input		2-3S Lipo, 5-9 Cells NiMH		
Cars Applicable		1:10 on-road, off-road E		
		1:10 Crawler, Tank &Boat		
	2S Lipoor	540 or 550 size motor ≥12T	540 or 550 size motor ≥ 8T	
Motor	5-6 cells NiMH	or RPM < 30000 @7.2V	or RPM <45000 @7.2V	
Limit	3S Lipo or	540 or 550 size motor ≥18T	540 or 550 size motor ≥13T	
	7-9 cells NiMH	or RPM < 20000 @7.2V	or RPM <30000 @7.2V	
	Resistance	Fwd: 0.002 Ohm, Bwd: 0.004 Ohm	Fwd: 0.0008 Ohm, Bwd: 0.0016 Ohm	
Built-in BEC		2A/6V (Linear mode BEC)	3A/6V (Switch mode BEC)	
	Dimension&	WP-1040-BRUSHED: 46.5*34*28.5, 65g		
Weight		WP-1040-BRUSHED-CRAWLER: 46.5*34*28.5, 70g	36*30*18, 40g	
Model		WP-1625-BRUSHED		
		WP-1625-BRUSHED-Crawler	WP-860-DUAL BRUSHED	
Cont. / Burst Current		Forward: 25A / 100A	Forward: 60A / 360A	
Con	. / Burst Current	Backward: 25A / 100A	Backward: 30A / 180A	
Input		2-3S Lipo, 5-9 Cells NiMH	2-4S Lipo, 10-12 Cells NiMH	
Cars Applicable		1:18 & 1:16 on-road, off-road	1:8 on-road, off-road, Buggy, Truggy, Monst	
		1:18 & 1:16 Crawler and Boat	Crawler and Boat	
	2S Lipoor	280, 370 or 380 size motor	540, 550 or 775 size motor ≥12T	
	5-6 cells NiMH	or RPM < 30000 @7.2V	or RPM < 30000 @7.2V	
Motor	3S Lipo or	280, 370 or 380 size motor	540, 550 or 775 size motor ≥18T	
Limit	7-9 cells NiMH	or RPM <20000 @7.2V	or RPM <20000 @7.2V	
	4S Lipoor	Not Available	540, 550 or 775 size motor ≥24T	
	10-12cells NiMH	Not Available	or RPM <15000 @7.2V	
Resistance		Fwd: 0.003 Ohm, Bwd: 0.003 Ohm	Fwd: 0.001 Ohm, Bwd: 0.002 Ohm	
Built-in BEC		1A/6V(Linear mode BEC)	3A/5V(Switch mode BEC)	
Dimension& Weight		34mm*24mm*14mm, 23.5g	46mm*36mm*26.3mm, 73g	

one has 2 outputs for 2 motors (2 motors work synchronously).

** The WP-860-DUAL BRUSHED has 2 outputs to drive 2 motors synchronously. When driving 2 motors, the Turns of

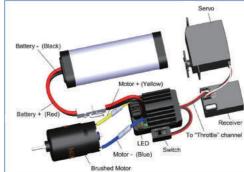
the motors need to be increased.

[BEGIN TO USE]

1. Connect the ESC, motor, receiver, battery and servo according to the following diagram

"+" and "." wires of the ESC are connected to the battery pack.

Attention: The incorrect polarity will damage the ESC immediate



wires with black, red and white color) is connected to the throttle channel of the receiver (Usually CH2). The "Motor +" and "Motor -" wires are connected to ESC without any order. If the motor runs in the opposite direction, please swap these two

2. Set the Transmitter
Please set the "D/R", "EPA" and
"ATL" to 100% for throttle channel
(for transmitter without LCD, please
turn the knobs to the maximum
value), and set the "TRIM" of the throttle channel to 0 (for trans without LCD, please turn the TRIM knob to its neutral position). For FutabaTM and the similar transmitters, the direction of throttle

channel shall be set to "REV", while other radio systems shall be set to "NOR".

The "Fail Save" function of the radio system is strongly recommended to be activated. Please make sure that the motor

can be stopped when the "Fail Save" happen:

[BEEP SOUND AND LED STATUS]

3. Throttle Range Setting (Throttle Range Calibration)
In order to make the ESC match the throttle range of different transmitters, the calibration of the ESC is necessary.
To calibrate the ESC, please turn on the transmitter, keep throttle stick at its neutral position, wait for 3 seconds to let the ESC execute self-test and automatic throttle calibration. When the ESC is ready to run, a long beep sound is emitted

Note: Please calibrate the throttle range again when using a new transmitter or changing the settings of the neutral position of throttle channel, D/R, ATV, ATL or EPA parameters, otherwise the ESC may not work properly.

The Meaning of Beep Sound	LED Status
1 short Beep: The battery is NiMH/NiCd	 When the throttle stick is in neutral range, red LED is off
2 short Beeps: The battery is 2S Lipo	 Forward, brake or reverse at partial throttle, red LED blinks
3 short Beeps: The battery is 3S Lipo	 Forward, brake or reverse at full throttle, red LED is solid
4 short Beeps: The battery is 4S Lipo	
1 long Beep: Self-test and throttle calibration is	

[THROTTLE STICK POSITION]







The ESC is programmed by the jumpers (Tweezers is recommended to plug and unplug the jumper).

backward zone again (The 2nd "click"), if the motor speed is slowed down to zero (i.e. stopped), the backward action will be activated. The "Double-Click" method prevents mistakenly reverse when the brake function is frequently used in steering.

"Brushed-Crawler & Boat" ESC uses "Single-click" to make the car go backward. When you move the throttle stick from forward zone to backward zone, the car will go backward immediately. This mode is common for the Rock Crawler and tank

Crawler and tank.

The maximum reverse force (for backward running) is 50% for the general "Brushed" ESC, 100% for the "Crawler" mode of a "Brushed-Crawler & Boal" ESC, and 25% for the "Boal" mode of a "Brushed-Crawler & Boal" ESC.

The Low Voltage Cut-off Protection modes are different (Please check the instructions in the section of "PROTECTION FUNCTIONS").

TROUBLE SHOOTING

A:WP-1040-BRUSHED	C:WP-1625-BRUSHED &
B:WP-1040-BRUSHED-CRAWLER & BOAT	WP-1625-BRUSHED-CRAWLER
MODE SHE and STATE TO SHE	Mode FIGURE FOOT BOOT BOOT BOOT BOOT BOOT BOOT BOOT
PROTECTION FUNCTIONS Low voltage Cut-off (LVC) protection: If the voltage of battery pack ESC will enter the protection mode. When the car stops, the red LED blinks to indicate the low voltage of the car stops.	

Table A: LVC protection for WP-1060-RRUSHED, WP-1040-RRUSHED, WP-860-DUAL RRUSHED, (F/R/R or F/R

mode).				
2S Lipo	3S Lipo	4S Lipo	5-9 cells NiMH	
Output reduces 50% at 6.5V Output cuts off at 6.0V, cannot be recovered	Output reduces 50% at 9.75V Output cuts off at 9.0V, cannot be recovered	Output reduces 50% at 13V Output cuts off at 12V, cannot be recovered	Output reduces 50% at 4.5V Output cuts off at 4.0V, cannot be recovered	

Table B: LVC protection for WP-1625-BRUSHED-Crawler, WP-1040-BRUSHED-Crawler&Boat, WP-860-DUAL

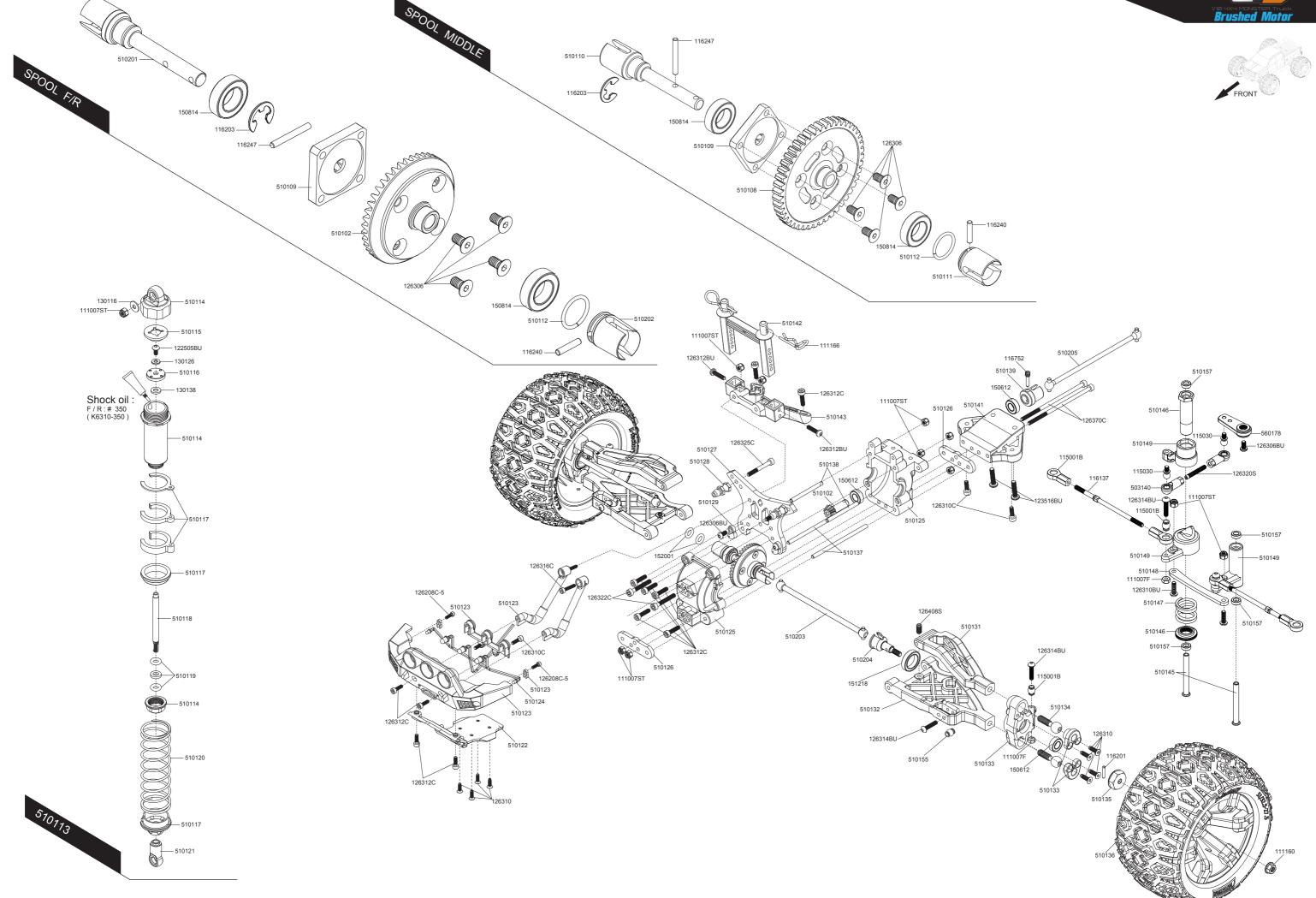
Output cuts off at 9.75V. If the throttle stick moves to	Output cuts off at 13V.	Output cuts off at 4.5V.
	If the throttle stick moves to	If the throttle stick moves to
neutral and then up again, the	neutral and then up again, the	neutral and then up again, the
output can be recovered to	output can be recovered to	output can be recovered to
50%.	50%.	50%.
If the voltage drops to 9.75V	If the voltage drops to 13V	If the voltage drops to 4.5V
again, the above process	again, the above process	again, the above process
repeats in circles.	repeats in circles	repeats in circles.
1	output can be recovered to 50%. If the voltage drops to 9.75V again, the above process repeats in circles.	output can be recovered to 50%. If the voltage drops to 9.75V again, the above process again, the above process

Fahrenheit degree for 5 seconds, the ESC will reduce and cut off the output power. When the car stops, the red LED blinks to indicate the over-heat protection has been activated. If the ESC cools down to 80 Celsius degree (176 Fahrenheit degree) the output power is recovered to normal state. Throttle signal loss protection: The ESC will cut off the output power if the throttle signal has been lost for 0.1 second. The "Fail Save" function of the radio system is strongly recommended to be activated.

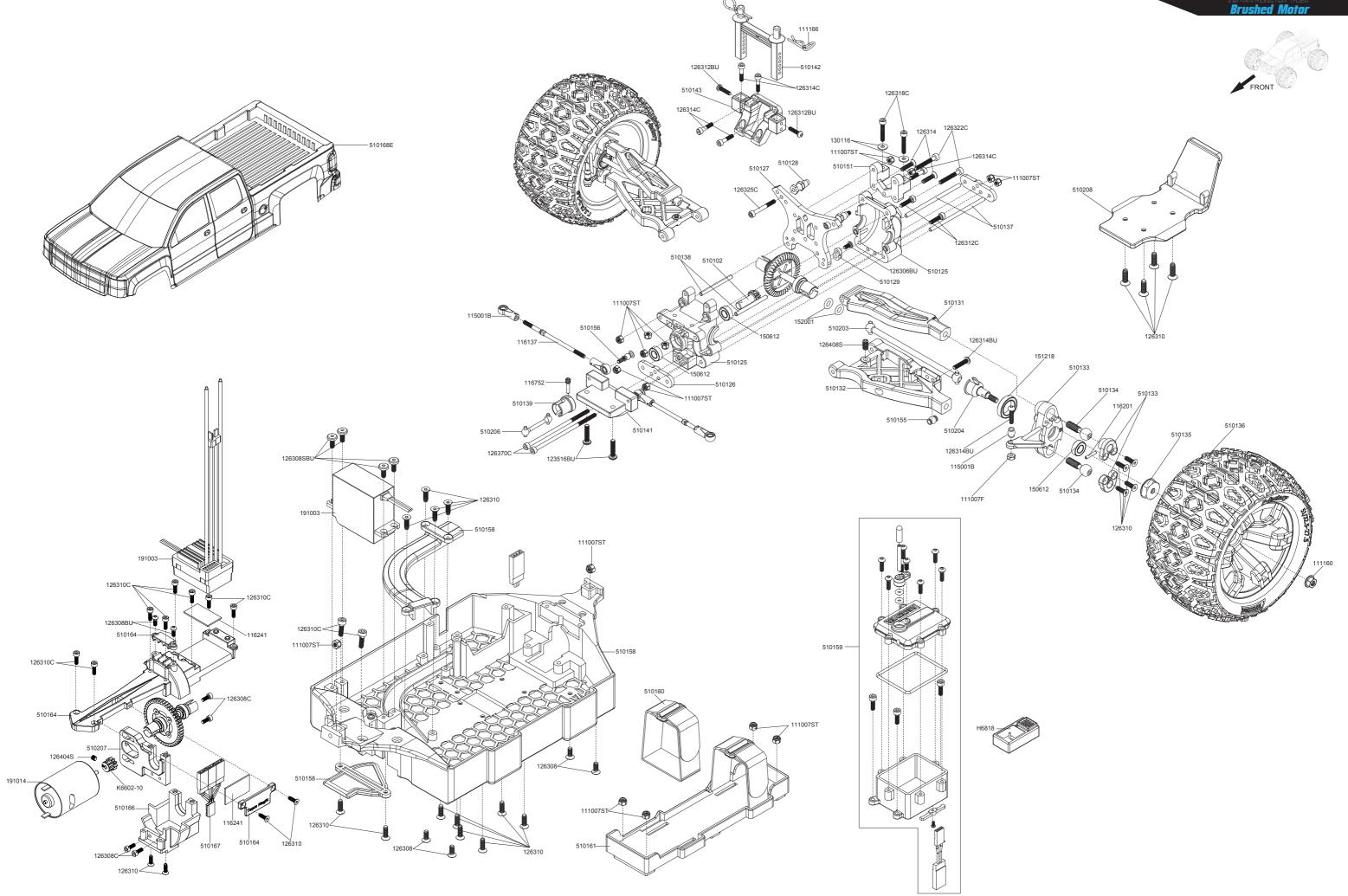
THE DIFFERENCE BETWEEN "BRUSHED" AND "BRUSHED-CRAWLER& BOAT" ESC

"Brushed" and "Brushed-Crawler& Boat" ESCs have different backward-running modes.
"Brushed" ESC uses "Double-Click" method to make the car go backward. When you move the throttle stick from forward zone to backward zone for the first time, the ESC begins to brake the motor, the motor speeds down but still running, so the backward action is NOT happened at this moment. When the throttle stick is moved to the

Trouble	Possible Reason	Solution
After power on, motor can't work, no sound is emitted, and LED is off.	The ESC doesn't get its working voltage; Connections between battery pack and ESC are broken.	Check the battery wires connection or replace the defective connectors
After power on, motor can't work; red LED blinks.	Switch is damaged. Throttle signal is abnormal.	Replace the switch. Check the throttle wire connectio make sure it is plugged into the throttle channel of the receiver.
	Automatic throttle range calibration is failed.	Set the "TRIM" of throttle channel 0 or turn the knob to its neutroposition.
The car runs backward while giving throttle. (The motor runs in the opposite direction)	The wire connections between ESC and the motor need to be changed.	
The car can't go backward.	The jumper position is wrong.	Check the jumper and plug it to t correct position.
	The neutral point of throttle channel is changed or drifted.	Set the "TRIM" of throttle channel 0 or turn the knob to its neutroposition.
The car can't go forward, but can go backward.	The direction of throttle channel is not correct.	Reset the direction of throt channel from original "NOR" "REV", or from original "REV" "NOR".
The motor doesn't work, but the LED in the ESC works normally.	The connections between motor and ESC are broken.	the defective connectors.
The motor suddenly stops running while in working state	Motor is damaged. The throttle signal is lost.	Replace the motor. Check the transmitter and the receiver. Check the throttle wire connection
	Low voltage cut-offprotection or Over-heat cut-off protection has been activated.	Replace the battery pack, or co down the ESC.
The car cannot get top speed and the red LED doesn't solid on at full throttle	Some setting in the transmitter are incorrect.	Set D/R, EPA, ATL to 100% or tu the knobs to maximum value. Set TRIM to 0 or turn the knob to neutral position.
Motor is cogging when accelerated quickly.	The battery has limited discharge ability.	ability.
	Motor RPM is too high, the gear ratio is too aggressive.	smaller pinion to get softer gerratio.
	Something wrong in the driving system of the car.	Check the driving system of the ca









Part List

	PARTS
Item No.	Item Description
111007F	3mm Flat Locknut (10)
111007ST	3mm Steel Locknut (10)
111160	4mm Special Wheel Lock Nut (4)
111166	R8 Angled Body Clip (10)
115001B	Ball End & Steel Ball (6) BLUE
115030	5X4mm Ball Stud(10)
116137	3x70mm Hardened Adjustable Rod (2)
116201	2x10.8mm Pin (10)
116203	E-clip 5 (10)
116237	2.5x11.8mm Pin (10)
116240	2x9.8mm Pin (10)
116241	3M Double Side Tape 4x2.2cm
116242	EVA Tape 3x14cm
116247	2x16.8mm Pin (10)
116752	Lockpin 2.5x14mm (4)
122505BU	M2.5X5mm BH Screw(10)
123516BU	3.5x16mm Steel BH Screw (6)
126208C-5	2.5x8mm Steel Cap Screw (6)
126306	3x6mm Steel FH Screw (6)
126306BU	3x6mm Steel Button Head Screw (6)
126308	3x8mm Steel F.H. Screw (6)
126308BU	3x8mm Steel Button Head Screw (6)
126308C	3x8mm Steel Cap Screw (6)
126308SBU	M3X8mm SBH Screw(10)
126310	3x10mm Steel F.H. Screw (6)
126310BU	3x10mm Button Head Screw (6)
126310C	3x10mm Cap Screw (6)
126312	3x12mm Steel F.H. Screw (6)
126312BU	3x12mm Button Head Screw (6)
126312C	3x12mm Cap Screw (6)
126314	3x14mm Steel FH Screw (6)
126314BU	3x14mm Button Head Screw (6)
126314C	3x14mm Cap Screw (6)
126316C	3x16mm Cap Screw (6)
126318C	3x18mm Cap Screw (6)
126320S	3x20m Set Screw (6)
126322C	3x22mm Cap Screw (6)
126325C	3x25mm Cap Screw (6)
126332C	3x32mm Cap Screw (6)
126340C	3x40mm Cap Screw (6)
126345C	3x45mm Cap Screw (6)
126370C	3x70mm Cap Screw (6)
126404S	4x4mm Set Screw (6)

	PARTS
Item No.	Item Description
130103	4.2x10x0.2mm Shim (6)
130116	3.2x8x0.7 Washer (10)
130126	2.6X6X0.7 Washer(10)
130138	3.5x7x1 Washer (10)
130139	5.2x15x0.5 Washer (10)
150612	6x12x4mm Bearing (4)
150814	8x14x4mm Bearing (2)
151218	12x18x4mm Bearing (4)
152005	O-Ring 4.7X1.4mm(10)
191003	THOR WP-1040 ESC
191013	S901 Servo 9KG
191014	THOR 550 Motor (25T)
503140	Long Ball Cup 5mm (6)
510102	E5 Bevel Gear -43T/11T
510108	E5 Spur Gear-46T
510109	E5 Spur Gear Hub
510110	E5 Spur Gear Shaft
510111	E5 Spur Gear Shaft Outdriver
510112	E5 C-Clip 9.8x1.1mm (4)
510113	E5 Shock Absorber Set (2)
510114	E5 Shock Body (2)
510115	E5 Shock Bladder (4)
510116	E5 Shock Piston (4)
510117	E5 Shock Spring Holder
510118	E5 Shock Shaft (2)
510119	E5 Shock O-Ring & Washer
510120	E5 Shock Spring (2)
510121	E5 Shock Pivot Ball Joints (4)
510122	E5 Front Skip Plate
510123	E5 Front Bumper
510124	E5 Front LED Light
510125	E5 Differential Box
510126	E5 Lower Arm Mount (2)
510127	E5 Shock Tower
510128	E5 Shock Pivot Ball Mount (2)
510129	E5 Pin Stopper (4)
510131	E5 Upper Arm (2)
510132	E5 Lower Arm (2)
510133	E5 Steering Block (2)
510134	E5 Pivot Ball (9mm) (4)
510135	E5 Wheel Hexes 14mm (4)
510136	E5 Mounted Tire (Pair)
510137	E5 Lower Arm Hinge Pin (2)
510138	E5 Upper Arm Hinge Pin (2)

	PARTS
Item No.	Item Description
510139	E5 Center Joints Outdriver (2)
510141	E5 Chassis linkage block
510142	E5 Body Post (F/R)
510143	E5 Body Post Mount (F/R)
510144	E5 Ball Cup
510145	E5 Servo Saver Inner Post (2)
510146	E5 Servo Saver Post
510147	E5 Servo Saver Spring
510148	E5 Steering Linkage Plate
510149	E5 Servo Saver Nylon Parts
510151	E5 Wheelie Linkage
510155	E5 Pivot Ball (5mm) (6)
510157	E5 Bushing 4x7x2.35 (4)
510158	E5 Chassis
510159	E5 Waterproof Receiver Box
510160	E5 Battery Straps (2)
510161	E5 Battery Mount
510164	E5 Central linkage Plate
510166	E5 Central Case
510167	E5 Extension Cord
510168	E5 Body Shell
510168E	E5 Body Shell for Brushed VerBlack
510201	E5 Solid Axle F/R
510202	E5 Solid Axle Outdrive
510203	E5 Alum. Driveshaft (2)
510204	E5 Driveshaft Outdrive (2)
510205	E5 Center Driveshaft - Long
510206	E5 Center Driveshaft - Short
510207	E5 Motor Mount for Brushed Motor
510208	E5 Rear Skid Plate for Brushed Ver.
560178	Servo Arm (Futaba) (2)
H6818	HR3GR 3 Channel 2.4G Receiver
K6310-350	K Factory Shock Oil 70ml/2.5oz #350
K6602-9	M1.0 Pinion Gear for 5mm Shaft 9T
K6602-10	M1.0 Pinion Gear for 5mm Shaft 10T



126408S

4x8mm Set Screw (6)

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