

DART

1/18 SCALE

4WD
READY TO RUN



XB



ST



MT



BT

2.4GHz



14 yrs or up

Specifications

	DARTMT	DARTXB	DARTST	DARTBT
Length	260mm	250mm	250mm	260mm
Width	195mm	190mm	190mm	195mm
Height	97mm	96mm	97mm	105mm
Wheel base	168mm	168mm	168mm	168mm
Drive System	4WD	4WD	4WD	4WD
Diameter of wheel	64mm	60mm	60mm	64mm
Width of wheel	38mm	32mm	32mm	38mm

BRUSHED VERSION

	DARTMT	DARTXB	DARTST	DARTBT
Motor Size	370	370	370	370
ESC/servo/RX	3-in-1combo	3-in-1combo	3-in-1combo	3-in-1combo
Battery	600mAh Ni-Mh	600mAh Ni-Mh	600mAh Ni-Mh	600mAh Ni-Mh
Gear Ratio	7.95:1	7.95:1	7.95:1	7.95:1

BRUSHLESS VERSION

	DARTMT	DARTXB	DARTST	DARTBT
Motor Size	4500KV	4500KV	4500KV	4500KV
Servo Torque	1.8kg	1.8kg	1.8kg	1.8kg
Battery	1300mAh Lipo	1300mAh Lipo	1300mAh Lipo	1300mAh Lipo
Gear Ratio	9.3:1	9.3:1	9.3:1	9.3:1
ESC	25A	25A	25A	25A

Features

1. 2.4G radio system;
2. 4WD with shaft drive system;
3. Front universal shafts;
4. Adjustable ground clearance;
5. Big bored oil-filled shocks for stable running;
6. Low CG gearbox design;
7. Metal diff. gears, durable even with brushless system;

Recommended Tools

These tools are not included with the product but are recommended for use whilst working with this vehicle
Scissors, Mini Screwdrivers, Hexagonal Screwdrivers 1.5mm, 2.0mm, 2.5mm, 3.0mm, 4-Way Cross Wrench (Small), 4-Way Cross Wrench (Large), Side Cutters, Needle Nose Pliers

Safety precautions

This product is an authentic radio controlled vehicle (RC vehicle) and it is not a toy. Read and understand this instruction manual thoroughly before running the model. If you are not familiar with RC vehicles, we recommend that you ask someone familiar with RC vehicles for advice.

Never connect the rechargeable drive battery in the reverse polarity or disassemble the battery. If the drive battery is used in the wrong way, high current can be generated and it is very dangerous.

Never run RC models near people or animals, or on public streets or highways. This could cause serious accidents, personal injuries, and/or property damage.

Items required for operation

8 * AA Batteries for the Transmitter

Transmitter

Your Transmitter is an advanced controller designed for the beginner to be easy to use and tune. You will need to follow the steps below to ensure you prepare the controller correctly for use and understand the adjustment possibilities available.

Preparing the transmitter



Open the battery holding tray to expose the empty battery slots:



Insert 8 AA batteries into the marked spaces. Please note the correct direction of the batteries

Incorrect battery insertion could lead to damage

2.4Ghz technology has done away with the need for long extendable aerials. The Aerial on your transmitter is located internally

The function switches on the transmitter



1. Power Switch
2. Throttle Trim
3. Steering Trim
4. Power Indicator
5. Battery Box
6. Steering Reverse
7. Bind Key F/S Set
8. Throttle Reverse
9. Throttle Trigger
10. Steering control Wheel
11. Charging Jack
12. DSC For Simulate
13. Power Check
14. Steering D/R

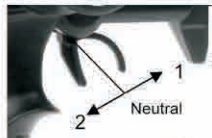


Dual Rates



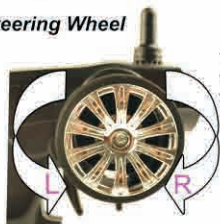
The dual rate settings allow you to adjust the maximum degree of movement from the servo or ESC on that channel.

Throttle Trigger



1. Push the trigger forward to Reverse
2. Pull the trigger backwards to go forwards and speed up

Steering Wheel



Turn the steering wheel to the left or right to make the vehicle turn left or right

Steering Trim

1. Turn anti clockwise to trim to the left
2. Turn clockwise to trim to the right

Throttle Trim

1. Turn anti clockwise for more brake
2. Turn clockwise for more throttle

Binding the Transmitter and Receiver

You may need to setup your transmitter to 'bind' with the receiver if you change to a new receiver or for any reason lose signal.

- Turn on the Receiver power.
- Press the "SW" button on the Receiver. The Receiver LED should start flashing.
- Turn on the Transmitter
- When the Receiver LED becomes solid the binding process is completed.

Turning on the power

Turn on transmitter first and then turn on receiver.

Turn on the transmitter switch and the LED battery indicator will light up.

Turn on the receiver. The automatic set-up of the factory set speed control should have been completed. If you experience any problems with the speed control settings refer to the Electronic Speed Control Section for correct setup information.

Installing the battery pack



You need to insert the battery pack in the open section for the battery. Use the strap provided to place on top of the battery and then use the retaining clip to secure the battery.



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

Turning off the power

Turn off receiver first and then turn off transmitter.

If you switch off the transmitter first before the R/C car, you may lose control of the R/C car.

- Turn off the receiver switch.
- Turn off the transmitter switch.
- Disconnect the battery connector from the speed control connector.

DISCONNECT THE BATTERY PACK AFTER USE!

Trim Setup

If the front tyres are not pointing straight forward with the transmitter on, adjust the steering trim. Then if needed make fine adjustments with the steering trim whilst driving the vehicle.



If wheels point left, turn clockwise



If wheels point right, turn anti-clockwise.



If they point straight no adjustment required.



Trouble Shooting

Please read this section if you have any fault trying to operate the vehicle

Problem	Cause	Remedy
The vehicle does not move	Transmitter or receiver is off	Turn on both the transmitter and receiver
	Batteries are not placed correctly	Place batteries in the transmitter properly
	The main battery is not charged enough	Charge the main battery
The vehicle does not follow your driving inputs	Transmitter or receiver is off	Turn on both the transmitter and receiver
	Transmitter reverse switches are set incorrectly	Check the reverse switch settings
	Transmitter End Point Adjustments (EPA) are set incorrectly	Check that your EPA Dials on your transmitter
	Weak batteries in either the transmitter or the car	Replace batteries in the transmitter and re-charge the main battery
The front and rear wheels rotate in opposing directions	Incorrect user differential placement	Insert the differential the correct way

Driving

Driving an R/C car can be very difficult to master but here are some basic tips to help you to understand how to use it before you have your first attempt.

Drive the vehicle in a very large space, especially until you get the feel of driving the product.

Do not run on public streets or highways. This could cause serious accidents, personal injuries and/or property damage.

Do not run in water or sand.

If you keep pulling the throttle trigger on the transmitter, the vehicle will keep accelerating and run very fast. It is difficult to steer the vehicle running at high speed until you become used to driving.

Drive the vehicle slowly by pulling the throttle trigger to the fullest and quickly releasing it.

You can turn the vehicle right or left while it is running. When the vehicle is running toward you, you need to operate the steering wheel in the opposite direction to the operation when the vehicle is running away from you.

Practice turning the vehicle, referring to the following.

Rather than just paying attention to the direction of the steering wheel, imagine that you are at the centre of the steering wheel, looking ahead of the vehicle, to turn in the direction you like.

Once you become conformable driving the vehicle, practice driving on a track with cones.

Keep practising until you feel comfortable with the steering, throttle and brake at low speeds.

Once you are feeling comfortable try using reverse.

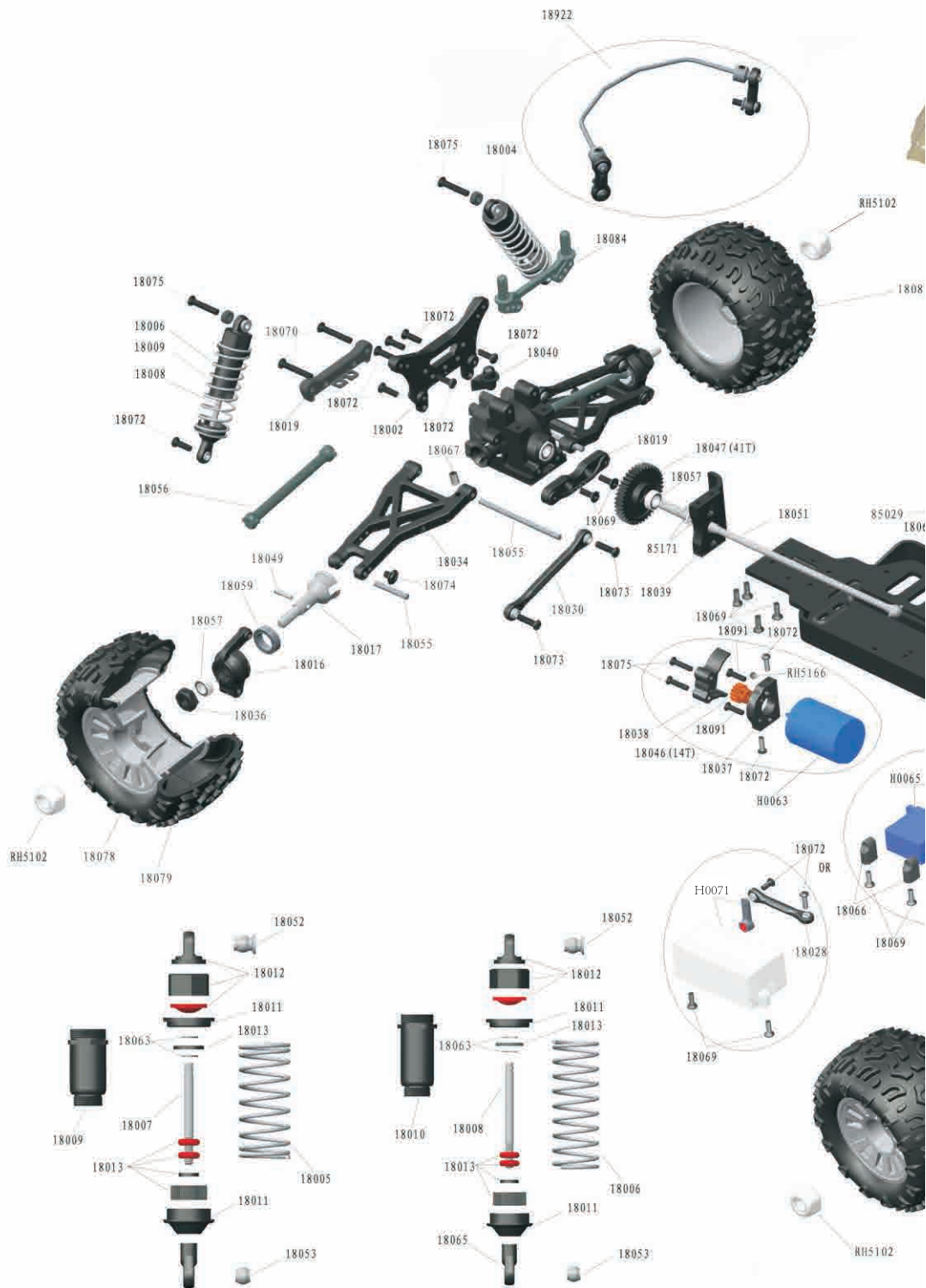
When you have mastered the basics you will be able to drive at higher speeds in a more controlled fashion.

Maintenance after driving

Proper maintenance is very important. Make sure to always perform appropriate maintenance after driving so that you can enjoy driving without problems next time.

Completely remove all dirt and debris from the vehicle, especially in the suspension, drive shafts and steering parts. Inspect each part and screw for loosening, missing or damages.










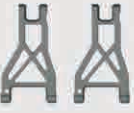














You should always make sure your wheels are tight and parts move freely after and before use.



























Common Part List

<p>18001-Front Shock Tower 1pc</p> 	<p>18002-Rear Shock Tower 1pc</p> 	<p>18003-Front Shocks 2pc</p> 	<p>18004- Rear Shock 2pc</p> 
<p>18005-Front Shock Spring 2pc</p> 	<p>18006-Rear Shock Spring 2pc</p> 	<p>18007-Front Shock Shaft & Piston Set 2sets</p> 	<p>18008-Rear Shock Shaft & Piston Set 2sets</p> 
<p>18009-Front Shock Body 2pc</p> 	<p>18010-Rear Shock body 2pc</p> 	<p>18011-Shock Lower holder & Adjust Ring 2sets</p> 	<p>18012-Shock Upper Caps 1set</p> 
<p>18013-Shock Lower Caps 1set</p> 	<p>18014-Steering Knuckle Arm 1set</p> 	<p>18015-Uprights 2pc</p> 	<p>18016-Rear Hub Carrier 2pc</p> 
<p>18017-Rear Drive Shaft 2pc</p> 	<p>18018-Front Susp. Holders 2pc</p> 	<p>18019-Rear Susp. Holders 2pc</p> 	<p>18020-Gearbox Housing Set 1set</p> 
<p>18021-Front CVD 2pc</p> 	<p>18022-Upper Susp.Arm 2pc</p> 	<p>18023-Front Lower Susp.Arm 2pc</p> 	<p>18024-Bumper 1pc</p> 










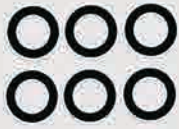














Part List

<p>18025-Servo Saver Post 2pc:</p> 	<p>18026-Servo Saver 1set</p> 	<p>18027-Steering Arm 2pcs</p> 	<p>18028-Servo Linkage 1pc</p> 
<p>18029-Steering Ackerman 1set</p> 	<p>18030-Rear Upper Susp Arm 2sets</p> 	<p>18031-Upper plate 1pc</p> 	<p>18032-Chassis plate 1pc:</p> 
<p>18033-Battery Cover 1pc:</p> 	<p>18034-Rear Lower Susp.Arm 2pc</p> 	<p>18035-Wing Bracket 1set</p> 	<p>18036-Wheel Hub 4pc</p> 
<p>18037-Motor Mount 1pc:</p> 	<p>18038-Gear Cover 1pc:</p> 	<p>18039-Spur gear bracket 1pc</p> 	<p>18040-Buggy Body Mount 1set</p> 
<p>18041-Diff Bevel Gear B-1 2pc: 24T</p> 	<p>18042-Diff Bevel Gear B-2 2pc: 24T</p> 	<p>18043-Diff Drive Gear 2pc 14T</p> 	<p>18044-Diff Bevel Gear S. 3pc 12T</p> 
<p>18045-Diff Drive Spur Gear 2pc: 38T</p> 	<p>18046-Pinion Gear 1pc 14T 18090-Pinion Gear 1pc 12T</p> 	<p>18047-41T Spur Gear 1pc:</p> 	<p>18048-Diff.Drive Gear Pin 1pc:</p> 

Part List

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<p>18029-Steering Ackerman 1set</p> 	<p>18030-Rear Upper Susp Arm 2sets</p> 	<p>18031-Upper plate 1pc</p> 	<p>18032-Chassis plate 1pc:</p> 
<p>18033-Battery Cover 1pc:</p> 	<p>18034-Rear Lower Susp.Arm 2pc</p> 	<p>18035-Wing Bracket 1set</p> 	<p>18036-Wheel Hub 4pc</p> 
<p>18037-Motor Mount 1pc:</p> 	<p>18038-Gear Cover 1pc:</p> 	<p>18039-Spur gear bracket 1pc</p> 	<p>18040-Buggy Body Mount 1set</p> 
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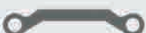












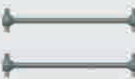



Part List

<p>18049-Pin 1.5*8 6pc</p> 	<p>18050-Diff Pin 2pc</p> 	<p>18051-Center Drive Shaft 1pc</p> 	<p>18052-Ball A 6pc</p> 
<p>18053-Ball B 6pc</p> 	<p>18054-Center Coupler 2pc</p> 	<p>18055-Hinge Pins(long & short) 1set</p> 	<p>18056-Rear Dongbone 2pcs</p> 
<p>18057-Ball Bearing 8*4*3 6pc</p> 	<p>18058-Ball Bearing 10*6*3 6pc</p> 	<p>18059-Ball Bearing 12*8*3.5 6pc</p> 	<p>18060-Metal Bushing 8*4*3 6pc</p> 
<p>18061-Metal Bushing 10*6*3 6pc</p> 	<p>18062-Metal Bushing 12*8*3.5 6pc</p> 	<p>18063-E clip-2mm 6pc</p> 	<p>18064-E clip-6mm 4pc</p> 
<p>18065-Shock Ball End 6pc</p> 	<p>85029-Body Clip(Small Size) 6pc</p> 	<p>85034-Body Clip(Medium Size)6pc</p> 	<p>RH5102-Nylon Lock Nut M3 6pc</p> 
<p>18066-Servo post 2pc</p> 	<p>18067-Screw M3*6 6pc</p> 	<p>18068-Flat Head Hex M2.5*6 6pc</p> 	<p>18069-Flat Head Hex M2.5*8 6pc</p> 

Part List

<p>H0068-2.4GHz Transmitter 1pc</p> 	<p>H0071-2.4GHz Transmitter 3-IN-1 Combo 1pc</p> 	<p>H0060-Li-Po 7.4V 1300mAh 1pc</p> 	<p>H0061-Ni-MH 7.2V 600mAh 1pc</p> 
<p>H0062-370 Brushed Motor 1pc</p> 	<p>H0063-4500KV Brushless Motor 1pc (2040)</p> 	<p>H0064-25A Brushless ESC 1pc</p> 	<p>H0065-1.8kg Servo 1pc</p> 
<p>18253 Charger CE 1pc</p> 	<p>18254 Charger UL 1pc</p> 	<p>18255 Charger BS 1pc</p> 	<p>18256 Charger BS 1pc</p> 
<p>RH18088-Diff.set(Metal bushing)</p> 	<p>RH18089-Diff.set(Ball bearings)</p> 	<p>18091-Button Head Hex Screw M2.5*7 6pc.</p> 	<p>H0069-Ni-MH 7.2V 1100mAh 1pc</p> 
<p>18931 Alum steering linkage</p> 	<p>18930 Alum front upper susp.Arm</p> 	<p>18930 Alum rear upper susp.Arm</p> 	<p>18925 TSD 3-in-1 servo gear</p> 
			

Upgrade Parts List

18901-Front Shock Tower(Carbon) 1pc 	18902-Rear Shock Tower(Carbon) 1pc 	18903-Battery Cover(Carbon) 1pc 	18904-Upper plate(Carbon) 1pc 
18905-Chassis plate(Carbon) 1pc 	18906-Steering Ackerman(Carbon) 1set 	18907-Diff Drive Cup (FE) 2pcs 	18908-Rear Hub Carrier(AL) 2pc 
18909-Steering Knuckle(AL) 1set 	18910-Dsprings(AL) 2pc 	18911-Spur Gear Bracket(AL) 2pc 	18912-Motor Mount (AL) 1pc 
18913-Rear Lower Susp. Arm(AL) 2pc 	18914-Front Lower Susp. Arm(AL) 2pc 	18915-Front Susp. Holder(AL) 2pc 	18916-Rear Susp. Holder(AL) 2pc 
18917-Front Shocks(AL) 2pc 	18918-Rear Shocks(AL) 2pc 	18919-Rear Dogbone (Fe) 2pc 	18920-Front CVD (Fe) 2pc 
18921-Wheel Hub(AL) 4pc 	18922-Sway Bar 1set 	18923-Center Coupler(Fe) 2pc 