

# 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-1 combo	3-in-1 combo	3-in-1 combo	3-in-1 combo
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.

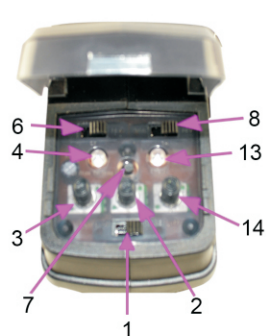


Insert 8 AA batteries into the marked spaces. Please note the correct direction of the batteries

Incorrect battery insertion could lead to damage

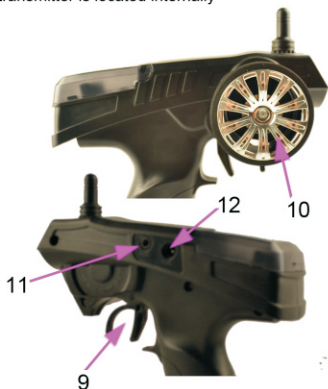
2.4Ghz technology has done away with the need for long extendable aerials. The Aerial on your transmitter is located internally

### 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



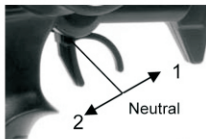
### Dual Rates



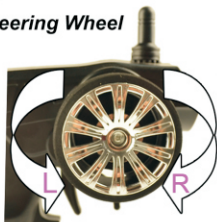
1. Push the trigger forward to Reverse
2. Pull the trigger backwards to go forwards and speed up

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

### Throttle Trigger



### 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.

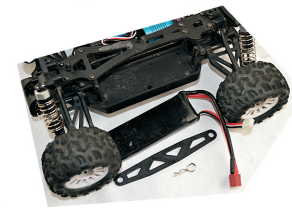
### Turning on the power

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.

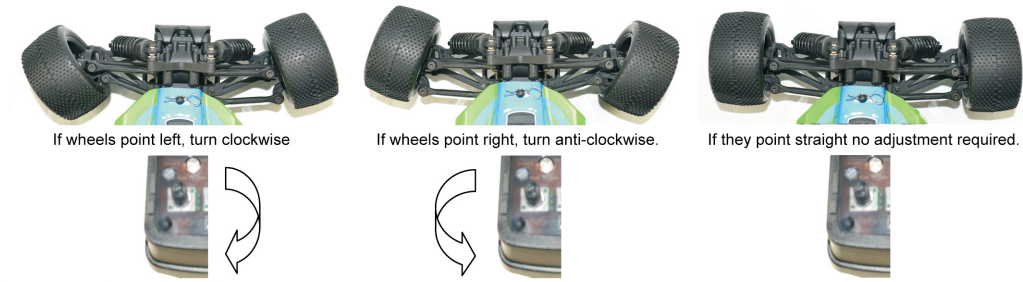
If you switch off the transmitter first before the R/C car, you may lose control of the R/C car.

- 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.



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.









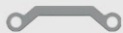




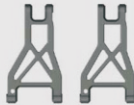
















# Common Part List



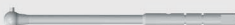





















<p>18001- Front Shock Tower 1pc</p> 	<p>18002-Rear Shock Tower 1pc</p> 	<p>18003-Front Shocks 2pc</p> 	<p>18004- Rear Shock 2pc</p> 
<p>18005-Front Shock Spring 2pc</p> 	<p>18006-Rear Shock Spring 2pc</p> 	<p>18007-Front Shock Shaft &amp; Piston Set 2sets</p> 	<p>18008-Rear Shock Shaft &amp; Piston Set 2sets</p> 
<p>18009-Front Shock Body 2pc</p> 	<p>18010-Rear Shock body 2pc</p> 	<p>18011-Shock Lower holder &amp; 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> 
















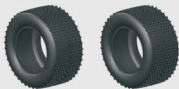



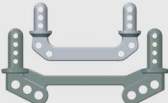






# Part List

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

# 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 &amp; 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> 



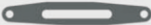


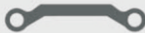






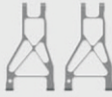





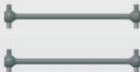



# Part List

18070-Button Head Hex Screw M2.5*16 6pc 	18071-Button Head Hex Screw M2.5*6 6pc 	18072-Button Head Hex Screw M2.5*8 6pc 	18073-Button Head Hex Screw M2.5*10 6pc 
18074-Ring Self Tapping Screw 2.5*4 4pc 	18075-Button Head Hex Screw M2.5*14 6pc 	RH5166-Set Screw M3*3 6pc 	RH5664-Button Head Hex Screw M3*6 6pc 
85171-E clip-3mm 6pc 	18076-Pin 1.5*10 6pc 	18077-Diff Drive Cup 2pc 	18078-Rim 2pc 
18079-Truck tyre 2pc 	18080-Buggy tyre 2pc 	18081-Truck tyre set 2sets 	18082-Buggy tyre set 2sets 
18083-Battery Tray Mount 2pc 	18084-Boody post 2pc 	Buggy Tail Wing 3pc R0149(clear) R0144 R0132 	Buggy Printed Body 3pc R0150(clear) R0145 R0133 
Truggy Printed Body 3pc R0151(clear) R0134 R0147 	Truck Printed Body 3pc R0152(clear) R0135 R0148 	Printed Body 3pc R0153(clear) R0146 R0142 	18086-Pin 20*8 6pc 

# Part List

H0068-2.4GHz Transmitter 1pc 	H0071-2.4GHz Transmitter 3-IN-1 Combo 1pc 	H0060-Li-Po 7.4V 1300mAh 1pc 	H0061-Ni-MH 7.2V 600mAh 1pc 
H0062-370 Brushed Motor 1pc 	H0063-450KV Brushless Motor 1pc  (2040)	H0064-25A Brushless ESC 1pc 	H0065-1.8kg Servo 1pc 
18253 Charger CE 1pc 	18254 Charger UL 1pc 	18255 Charger BS 1pc 	18256 Charger BS 1pc 
RH18088-Diff.set(Metal bushing) 	RH18089-Diff.set(Ball bearings) 	18091-Button Head Hex Screw M2.5*7 6pc 	H0069-Ni-MH 7.2V 1100mAh 1pc 
18931 Alum steering linkage 	18930 Alum front upper susp.Arm 	18930 Alum rear upper susp.Arm 	18925 TSD 3-in-1 servo gear 

# 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-Chassiss 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-Uprings(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 