

ADZVZ

1/12-SCALE ELECTRIC ON-ROAD CAR



INSTRUCTION MANUAL



INTRODUCTION

Congratulations on purchasing your Awesomatix car! The A12WC car was produced by UAB Awesomatix company.

BEFORE YOU START

The A12WC car is a high-quality, innovative 1/12-scale on-road car and should only be built by those with previous experience of building R/C model racing cars.

This is not a toy and is not intended for use by children without the direct supervision of a responsible, knowledgeable adult. Please read the instruction manual carefully and fully understand it before beginning assembly. If you encounter any problems or have any questions, please do not hesitate to contact the Awesomatix team at **support@awesomatix.com**.

Ensure that you are happy with your kit purchase and are committed to use of it prior to beginning the assembly of your A12WC. Your car cannot be returned to UAB Awesomatix for a refund or exchange once it has been fully or partially assembled.

This kit is a radio controlled model racing product and could cause personal injury or harm if not used as intended. The A12WC car is designed for use on r/c car race tracks; it should not be used in areas primarily intended for use by the general public. UAB Awesomatix accept no responsibility for any injury caused by making or using this product.

Due to our policy of continuous product development, the exact specifications of the kit may vary. UAB Awesomatix reserve all rights to modify or change product specifications without prior notice. All rights reserved.

ASSEMBLY NOTES

You can find useful tips for assembly of the A12WC and an editable setup sheet on the Internet website: http://site.petitrc.com/reglages/awesomatix/setupa12/

GENERAL PRECAUTIONS

- Many of the items in this kit are small enough to be accidentally swallowed and are therefore potential choking hazards, making them potentially fatal. Please ensure that when assembling the kit you do so out of the reach of small/young children.
- Take care when building, as some parts may have sharp edges.
- · Please read this manual carefully to understand which ancillary items (tools, electrics, electronics etc) are used with this kit.
- Awesomatix Innovations accept no responsibility for the operation of any such ancillary items.
- · Exercise care when using tools and sharp instruments.
- · Follow the operating instructions for the radio equipment at all times.
- Never touch rotating parts of the car as this may cause injury.
- Keep the wheels of the model off the ground when checking the operation of the radio equipment.
- To prevent any serious personal injury and/or damage to property, be responsible when operating all remote controlled models.
- The model car is not intended for use on roads or areas where its operation can conflict with or disrupt pedestrian or vehicular traffic.
 Do not run your car in poor light or if it goes out of sight. Any impairment to your vision may result in damage to your car or, worse, injury to others or their property.
- As a radio controlled device, your car is subject to radio interference from things beyond your control. Any such interference may cause a loss of control of your car so please consider this possibility at all times.
- When not using RC model, always disconnect and remove battery.
- Insulate any exposed electrical wiring to prevent dangerous short circuits.
- Take maximum care in wiring, connecting and insulating cables. Make sure cables are always connected securely.
- Check connectors for if they become loose and if so reconnect them securely. Never use R/C models with damaged wires.
- A damaged wire is extremely dangerous and can cause short-circuits resulting in fire.

EQUIPMENT RECOMMENDED (NOT INCLUDED)

- Radio Transmitter
- Radio Receiver
- Electronic Speed Control
- Steering Servo
- Servo Saver
- Electric Motor
- Pinion Gear (64 or 48 Pitch)
- Spur Gear (64 or 48 Pitch)
- 1S Li-Po Battery
- 1/12 scale Body Shell
- 1/12 scale Wheels and Tires

TOOLS RECOMMENDED (NOT INCLUDED)

- 1.5mm, 2.0mm, 3.0mm Hex Drivers
- 12mm Wrench
- Sewing Needle or Sharp Pin
- Callipers
- Hobby Knife
- Ride Height Gauge
- Thin CA Glue
- Thread Lock
- Double Side Tape
- Silicone Oil for Dampers
- Joint Grease







needle/pin

STEP 6



Stretch **OR153V** via fingers and put it on **ST1202** (to avoid the damage of o-ring please don't use a sharp edged tool for this!).



Note: Add ~0,3 g of 50 000...100 000 cst silicone oil into cavity of ST1204 damper case. We recommend 100 000 cst silicone oil as the base setup. Keep ST1204 upright for several minutes until all oil reaches the bottom of the cavity. ST1204

STEP 8

Note: Insert ST1202 damper rotor into ST1204 damper case slowly. After the lower face of the ST1202 reaches the oil in the bottom of the cavity, the ST1202 will need an additional force to be pushed fully into the proper position. We recommend using a rubber band or OR230 o-ring as shown in the picture. The oil will start to come up towards the top of the cavity of the ST1204 as the ST1202 is pushed further into that cavity by the o-ring. When the OR153V o-ring and the ST1204 damper are close to flush (almost fully inserted), please use a sewing needed or a sharp pin along the recess of the ST1202 to move the o-ring out of position and allow more oil to be pushed out from the ST1204 case. Using this needle or pin will allow the ST1202 to be fully seated and sit perfectly flush with the ST1204 damper case.

STEP 7

ST1202

ST1204

Note: It is very important to assemble the damper without any air inside! The silicone oil has to occupy the gap between the damper's rotor and case fully. It can take some practice.



STEP 9

Repeat the STEPS 5,6,7 for other side of **ST1204** and check that both **ST1202** rotors reached the desirable position (flush with the **ST1204** face)

AWESCHATT









STEP 12











Alignment of the appropriate holes of ST1208-C4AL and C1205-X for camber settings.



AWESOMVIIX



























STEP 28



9-**-**+#

When using big tires, you will need to use shims under the C1205 to obtain the desired ride height. Placing shims under the steering block will not be sufficient to lower the ride height to proper height with larger tire sizes, so please use this additional method of adding shims under the C1205-X





SS3X10

Setting of the Gap Under Damper (GUD).

Gap Under Damper - the **GUD** value indicates how far the bottom surface of the rear damper is above the chassis level. The **GUD** value can be measured using the **DG1X** gauge when the fully equipped car is placed on the flat stand like on the picture. When measuring the **GUD**, insert the **DG1X** gauge in the gap between the **ST1204** rear damper body and the stand. The **GUD** is set via simultaneous and equal preload of two side springs **SPR12S0.5**. Rotate the left and the right spring retainers **ST1211** to the same rotation angle using 1,5 mm hex driver; turn clockwise to increase the rear spring preload and to increase the **GUD**; turn counterclockwise to decrease the rear spring preload and to decrease **GUD**.



Setting of the Rear Downstop (RD).

Rear Downstop (RD) value in the A12WC car indicates how far the motor pod can drop below the bottom surface of the rear damper. Adjusting of SS3X10 set screw position - Downstop Screw Depth (DSD) is used for setting of the rear downstop RD. DSD can be measured via calipers or via counting of the number of turns the screw is screwed into damper's case. Every turn of the thread is 0,5mm in depth. So for example, 4 full turns of SS3X10 screw starting from position when the lower face of the screw coincides with the lower face of the damper corresponds to 2mm DSD. Equation for the Rear Downstop: RD = 3.3 - DSD Enter DSD value into the A12WC editable setup sheet. The Rear Downstop value RD will be calculated automatically.

Downstoop Screw Depth (DSD)







AWESOMYLIX





Parts #DescriptionAM1202.1Motor MountAM1203WCBattery PlateAM1204WCChassis PlateAM1205.1Side BeamAM1206Front NutAM1207.1Left BulkheadAT1201Steering Block NutAT1202Servo PostAT1203Rear BeamAT1204-XSteering BlockAT1205Servo Plate PostAT1206Servo Plate PostAT1207Left HubAT1207Steering WasherAT1207Steering WasherST1201Smm Ball StudST1202Damper RotorST1203Downstop RodST1204Jamper CaseST1205Ball CupST1205Ball CupST1205Steering Block TubeST1205LRC NutST1205LRC SeatST1255LRC NutST1256LRC Rear BallST1257LRC Front BallST1257Japred SpacerST1260Tapered SpacerST1211Spring RetainerST24-4.04.0mm Ball StudST4121-5Foam BumperP1215Foam BumperP1213Ball CupP1213Ball CupP1213Side Spring HolderP14-2Body postC1201-XServo PlateC1204Bumper PlateC1205-XSuspension Plate	Spare parts		
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S11257LRC Front BallST1260Tapered SpacerST1211Spring RetainerST24-4.04.0mm Ball StudST244.8x6mm Ball StudSTA1212-XComposite AxleP1215Foam BumperP13-4Ball CupP1213Ball Cup 4.0 mmDT1213Side Spring HolderP14-2Body postC1201-XServo PlateC1203.1Body HolderC1205-XSuspension Plate	ST1256	LRC Rear Ball	
S11260Tapered SpacerST1211Spring RetainerST24-4.04.0mm Ball StudST244.8x6mm Ball StudSTA1212-XComposite AxleP1215Foam BumperP13-4Ball CupP1213Ball Cup 4.0 mmDT1213Side Spring HolderP14-2Body postC1201-XServo PlateC1203.1Body HolderC1204Bumper PlateC1205-XSuspension Plate	ST1257	LRC Front Ball	
ST1211Spring RetainerST24-4.04.0mm Ball StudST244.8x6mm Ball StudSTA1212-XComposite AxleP1215Foam BumperP13-4Ball CupP1213Ball Cup 4.0 mmDT1213Side Spring HolderP14-2Body postC1201-XServo PlateC1203.1Body HolderC1204Bumper PlateC1205-XSuspension Plate	ST1260	Tapered Spacer	
S124-4.04.0mm Ball StudST244.8x6mm Ball StudSTA1212-XComposite AxleP1215Foam BumperP13-4Ball CupP1213Ball Cup 4.0 mmDT1213Side Spring HolderP14-2Body postC1201-XServo PlateC1203.1Body HolderC1205-XSuspension Plate	ST1211	Spring Retainer	
S1244.8x6mm Ball StudSTA1212-XComposite AxleP1215Foam BumperP13-4Ball CupP1213Ball Cup 4.0 mmDT1213Side Spring HolderP14-2Body postC1201-XServo PlateC1203.1Body HolderC1204Bumper PlateC1205-XSuspension Plate	ST24-4.0	4.0mm Ball Stud	
STA1212-XComposite AxleP1215Foam BumperP13-4Ball CupP1213Ball Cup 4.0 mmDT1213Side Spring HolderP14-2Body postC1201-XServo PlateC1203.1Body HolderC1204Bumper PlateC1205-XSuspension Plate	ST24	4.8x6mm Ball Stud	
P1215Foam BumperP13-4Ball CupP1213Ball Cup 4.0 mmDT1213Side Spring HolderP14-2Body postC1201-XServo PlateC1203.1Body HolderC1204Bumper PlateC1205-XSuspension Plate	STA1212-X	Composite Axle	
P13-4Bail CupP1213Ball Cup 4.0 mmDT1213Side Spring HolderP14-2Body postC1201-XServo PlateC1203.1Body HolderC1204Bumper PlateC1205-XSuspension Plate	P1215	Foam Bumper	
P1213Bail Cup 4.0 mmDT1213Side Spring HolderP14-2Body postC1201-XServo PlateC1203.1Body HolderC1204Bumper PlateC1205-XSuspension Plate	P13-4	Ball Cup	
D11213Side Spring HolderP14-2Body postC1201-XServo PlateC1203.1Body HolderC1204Bumper PlateC1205-XSuspension Plate	P1213	Ball Cup 4.0 mm	
P14-2Body postC1201-XServo PlateC1203.1Body HolderC1204Bumper PlateC1205-XSuspension Plate	D11213	Side Spring Holder	
C1201-X Servo Plate C1203.1 Body Holder C1204 Bumper Plate C1205-X Suspension Plate	P14-2	Body post	
C1204 Bumper Plate C1205-X Suspension Plate	C1201-A	Servo Piale Rody Holdor	
C1204 Dumper Plate	C1203.1		
UIZUD-A SUSDENSION PIALE	C1204	Suspension Plate	
SPR12E-C1 1 Front Spring Soft	SPR12F-C1 1	Front Spring Soft	

Parts #	Description
SPR12S0.5	Side Spring C0.5
SPR05	Body Clip
B156	3/16x5/16x1/8 Flanged Bearing
B168	1/4x3/8x1/8 Flanged Bearing
SH12S-0.2	Spring Shim 0.2mm
SH12F0.5	Front Axle Spacer 0.5mm
SH12R0.5	Rear Axle Spacer 0.5mm
SH1.5W	7.4x3x1.5mm Spacer
SH12R2.0	Rear Axle Spacer 2.0mm
SH12R3.5	Rear Axle Spacer 3.5mm
SH5.5X7.7X0.05	5.5X7.7X0.05 Shim
SH0.1	6x8x0.1mm Shim
SH0.25	6x3x0.25mm Spacer
SH0.5	6x3x0.5mm Spacer (Silver)
SH1.0	6x3x1.0mm Spacer (Gray)
SH4.0	6x3x4.0mm Spacer
OR155SI	1.5x5mm O-Ring Silicone
OR230	2x30mm O-Ring
OR15	1x5mm O-Ring
OR153V	1.5x3mm O-Ring Viton
OR91	9x1mm O-Ring
OR915	9x1.5mm O-Ring
SC25X8	M2.5x8 Cap Head Screw
SS3X5	M3x5 Set Screw
SS3X10	M3x10 Set Screw
SC3X5	M3x5 Cap Head Screw
SC3X6	M3x6 Cap Head Screw
SB3X4	M3x4 Button Head Screw
SB3X5	M3x5 Button Head Screw
SB3X6	M3x6 Button Head Screw
SB3X8	M3x8 Button Head Screw
SB3X10	M3x10 Button Head Screw
SB3X12	M3x12 Button Head Screw
SF3X6	M3x6 Flat Head Screw
SF3X10	M3x10 Flat Head Screw
SB3X5AL	M3x5 Alloy Screw
STS-A12	A12 Stickers Sheet
SIO100K	100k Silicone Oil
DG1X	FG1X Gauge
T03	6/7 mm Wrench

Parts #	Description
RHG 4.2X	Ride Height Gauge
CS-1	Carbon Spool Set
AT1204-ZTL	Steering Block Zero Trail
ST1208-C5AL	Steering Hub Post 5 Deg
ST1208-C6AL	Steering Hub Post 6 Deg
ST1208-C2AL	Steering Hub Post 2 Deg
ST1208-C6	Steering Hub Post 6 Deg
ST1216	Balance Weight 5 g
ST1212	Spring Steel Axle
C1206	Carbon Axle
OR155PU	1.5x3mm O-Ring PU
SH12R5.5	Rear Axle Spacer 5.5mm
SC25X7AL	2.5x7 Cap Head Screw Alloy
AT1208	Right Hub
SPR12F-C1.7	Front Spring C1.7
SPR12F-C1.3	Front Spring C1.3
SPR12F-C0.9	Front Spring C0.9
SPR12F-C0.7	Front Spring C0.7

Parts #	Description
C1205-6.0	Suspension Plate
C1201-6.0	Servo Plate
C1201	Servo Plate
C1205-ZT	Suspension Plate Zero Trail
C1205-X-1.5	Suspension Plate
C1201-ZT	Servo Plate Zero Trail
AM1204WC	Chassis Plate
ST1208-C2ST	Steering Hub Post 2 Deg
ST1208-C4ST	Steering Hub Post 2Deg
ST1208-C5ST	Steering Hub Post 5 Deg
ST1208-C6ST	Steering Hub Post 6 Deg
SPR12S-C0.4	Side Spring Long C0.4
SPR12S-C0.5	Side Spring Long C0.5
SPR12S-C0.6	Side Spring Long C0.6
ELRC	Extra Low Roll Center Set
HRC	High Roll Center Set
EHRC	Extra High Roll Center Set
SH12F0.1	Front Axle Spacer 0.1mm



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