



1/10-SCALE TOURING CAR



INSTRUCTION MANUAL



INTRODUCTION

Congratulations on purchasing your Awesomatix car!

The A700 Evo II car was designed in Russia and produced by Awesomatix Innovations LLP registered in UK.

The A700 Evo II car utilises many unique features, including some patented innovations.

The version of A700 Evo II car with carbon chassis is called A700 Evo IIC.

Some steps of A700 Evo IIC version assembling are different and these steps are marked by the symbol A70



BEFORE YOU START

The A700 Evo II car is the high-quality, innovative 1/10-scale touring car and should be built only by persons with previous experience building R/C model racing cars. This is not a toy and is not intended for use by children without direct supervision of a responsible, knowledgeable adult. Read the instruction manual carefully and fully understand it before beginning assembly. If you have any problems or questions please do not hesitate to contact the Awesomatix team at support@awesomatix.com. If, for any reason, you decide that you do not want your A700 Evo II car you must not begin assembly. Your A700 Evo II car cannot be returned to Awesomatix Innovations LLP for a refund or exchange if it has been fully or partially assembled.

This kit is a radio controlled model racing product and could cause harm and personal injury. The A700 Evo II car is designed for use on r/c car race tracks. It should not be used in general public areas. Awesomatix Innovations LLP accept no responsibility for any injuries caused by making or using this kit.

Due to policy of continuous product development the exact specifications of the kit may vary. Awesomatix Innovations LLP do reserve all rights to change any specifications without prior notice. All rights reserved.

ASSEMBLY NOTES

Before starting each build-stage check that you have the right quantity and size of items for the build-stage. To assist you with the assembly of your A700 Evo II car we have included full-size images of all the small hardware parts laid out so that you can place items on top of the images to check they are the correct size/length. You can find the useful tips and pictures of A700 Evo II assembling on the Internet sites: www.awesomatix.info/en/tipps-tricks/aufbau/, www.awesomatixusa.com/p/tips.html, http://jdandracing.blogspot.gr.

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 LLP 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
- Electric Motor
- Pinion Gear (64 or 48 Pitch)
- Spur Gear (64 or 48 Pitch)
- 7.4 V Li-Po Battery
- 190mm Body ShellM4mm Wheel Nuts
- Touring Car Wheels, Tires, Inserts

- TOOLS RECOMMENDED (NOT INCLUDED)
- 1.5mm, 2.0mm Hex Driver
- 2.0mm Ball End Hex Driver
- 5.5mm, 7mm, 9mm, 10mm, 12mm Wrench
- 2.5mm Flat Screwdriver
- Callipers
- Hobby Knife
- Camber Gauge
- Ride Height Gauge
- Thin CA Glue
- Thread Lock
- Diff Silicone Oil Joint Grease



'LGA!\H







STEP 3 FINISHED



Tip: Use a 2.5mm flat screwdriver to unclamp **ST13** Rear Axle.



AWESOHATIX









Note: Insert P06 Downstop Collars and use CA glue for fixing them before SS3x5 screwing.









Rebuildable Damper Set

Note: Every **A700 Evo II** and **A700 Evo IIC** kit includes four factory assembled and oil filled **D2.1** Rebuildable Dampers. **D2.1** damper allows for both dampening adjustment via thicker silicon oil, and consistent performance since the racer can rebuild the shock.

The factory assembled and oil filled **D2.1** Rebuildable Dampers come with 500 cst pure silicone oil inside.

The build instructions for **D2.1** Rebuildable Dampers is on this page.

For disassembling please do all steps in the reverse order.

1) Stretch and place **OR18** O-ring in the groove of the **AT40-1** Cup.

2) Stand AT42-1 Case up and fill ~1/2 of volume with the desirable silicone oil. Insert AT41-1 Vane into AT42-1 Case slowly full way down.
 3) Add more silicone oil. Oil should cover the AT41-1 Vane completely. It is highly recommend that damper be placed into a vacuum pump to remove air. Otherwise let the damper sit for 30m+ to allow air bubbles to escape.

4) With the damper still vertical (important !), screw **AT40-1** Cup into the **AT42-1** Case with a 9mm socket wrench until fully threaded. Do not force the **AT40-1** Cup - once aligned, it will screw on easily. The excessive oil should go out through the gap between **AT40-1** and **AT41-1** Vane. Please don't remove this oil from the bearing cavity of **AT40-1** Cup on this stage!

5) Place **OR155** O-ring into **AT40-1** Cup. You can use a piece of an appropriate tube to press o-ring slowly and fully into cavity.

6) Place **B85** bearing and one **SH5X7X0.1** shim onto **AT41-1** Vane output shaft.

7) Screw **SS3X3** Set Screw into **AT41-1** Vane with a 1.5mm hex driver full way down. Don't tighten this set screw too much! Press on and hold **SH5X7X0.1** shim and **B85** bearing against an upward shift at **SS3X3** screwing.

8) Clean up oil off the outer surface of damper.









Note:

Initial position of **RHS** Ride Height Screw is ~0,6mm. Don't tighten **SRS** Spring Rating Screw too much to avoid P09 thread damage. STEP 10

















SF3X6 x2 (Mode 4) SF3X6 (Mode 3,4) or SS3X5 (Mode 1,2)

15

SF3X6 x5





Fill with desirable silicone oil (not included). Screw AT123 GD Case with 10mm wrench slowly. The excessive oil will go out through the ST31 axial hole.



STEP 23







Front One-Way unit (optional)













STEP 41







STEP 41 (cont'd) **STEP 41 FINISHED** snap AT04-2 **STEP 42 SH0.5** 6x3x0.5mm Spacer (Silver) (C x4 ST24 Ball Stud 6mm x4 **SH1.0** 6x3x1mm Spacer (Gray) x4 **ST24M** Ball Stud 8mm x4 SH1.75 6x3x1.75mm Spacer (Black) x12 ST24M ST24M **ST24** SH0.5 ST24M ST24 ST24M 🍝 SH0.5 ST24 SH1.0 ST24 SH1.75 SH1.0 SH1.75 SH1.75 SH1.75 SH0.5 🍝 SH1.75 SH1.75 SH1.0 SH0.5 🍝 SH1.0 SH1.75 📹 SH1.75 SH1.75 SH1.75 SH1.75 SH1.75 REAR FRONT



Notes: The given rods and arms sizes are approximately for 4° front caster and - 4° rear caster, 1.5° both front and rear cambers, 3° rear toe-in and 0° front toe angles. Use a setup station or angles gauge for further precise suspension geometry setting. See our recommendations on page #35 for quick and easy suspension geometry change.



AW/SOM TIX



centered servo mounting. Holes for centered SF3X6 x2 servo mounting 0



The centered servo mounting of the Awesomatix AS-700L servo is possible both for A700 Evo II and for A700 Evo IIC.



Adjust servo rod length for centering of AM09 Steering

Rodand snap on the balls.











 O
 SB3X8
 M3x8
 Button Head Screw
 x2

 O
 SB3X6
 M3x6
 Button Head Screw
 x1

 O
 SF3X10
 M3x10
 Flat Head Screw
 x1

 O
 SF3X10
 M3x0.5mm
 Spacer (Silver)
 x2

 AM70
 MM2
 Motor Locator
 x1

Use this **SS3X8** Set Screw as a stopper for pinion/spur gap precise setting before full tightening of **SB** screws.



STEP 50 FINAL ASSEMBLY















SUSPENSION SETTING TECHNIQUE





SHOCK SETTING TECHNIQUE

Attention! These Shocks allow to adjust the Damping and Spring rates without replacement of the shock's fluid and spring.

1. Damping and Shock Spring rate setting

Increase A-distance (slide Shock outward) to increase Damping and Spring rates simultaneously and concordantly to each other. A-distance range is 0 - 4.4mm. Use outer SF3X10 Flat Head Screw to unlock Shock and to lock it at desirable position. Decrease B distance (slide P09 Shock Screw Holder outward) to increase Spring rate only at the fixed Damping rate value.

Use **SRS** Spring Rating Screw to unlock Shock Screw Holder and to lock it at desirable position.

2. Shock Spring preload setting

Turn IN (CW) **RHS** Screw to increase spring preload. Turn OUT (CCW) **RHS** Screw to decrease spring preload. Use Spring preload setting to adjust Ride Height value.



SRS/RHS Screws arrangement |



3. SRS/RHS Screws arrangements change The reverse arrangement of these screws is possible also.



SRS/RHS Screws arrangement II





GRAPHS OF THE SUSPENSION STIFFNESS DEPENDING ON THE POSITION OF THE DAMPER (SIZE A) AND SHOCK SCREW HOLDER (SIZE B)



FINAL DRIVE RATIO CHART

DRIVE TRAIN RATIO IS 2,08

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Standard Spare Parts

Parts#	Description
AM01-1	Gear Box
AM05-2	Rear Holder
AM06S	Steering Block
AM08-1	Shocks Holder
AM09	Steering Rod
AM10-2	Steering Plate
AM14-1	Steering Arm
AM15-2	Battery Nut
AM17L	Damper Holder Left
AM17R	Damper Holder Right
AM19-2	Upper Arm Holder
AM23-1	Rear Steering Arm
AM24	Central Servo Holder
AM33-5	Chassis Stiffener Long
AM40	FFG Rear Plate
AM41	FFG Gear Box Support
AM42-3	FFG Links Holder Front
AM43-1	FFG Bulkhead
AM44-1	FFG Gear Box
AM46-1	FFG Front Plate
AM49	FFG Tower
AM49-3	FFG Tower Short
AM50	FFG Rear Stopper
AM54-3	FFG Links Holder Rear
AM56	FFG Clamping Bar
AM69	MM2 Battery Support
AM70	MM2 Motor Locator
AM73-1	MM2 Lower Plate
AM73-3	MM2 Middle Plate
AM73-4	MM2 Bearing Housing
AT03M	Spool Axle
AT04-2	Main Shaft
AT06	Antenna Holder
AT12	Spur Nut
AT13	Wheel Hex
AT14	Turnbuckle
AT15	Bearing Spacer
AT20	Spur Axle
AT21	Pivot Ball
AT31	FFG Alloy Rod
AT123	GD2 Case1
AT124	GD2 Case2
DT02	Bearing Housing
DT03	Motor Mount Collar
DT04	FFG Collar
ST01	Front Axle
ST02	Rear Axle
ST03	Ball Stud
ST05L	Shock Rod Long
ST08	Steering Nut
ST09	Upper Collar
ST10	2mm Pin
ST11	Bushing R
ST13	Front Universal Bone
ST14	Rear Universal Bone
ST16	U-Joint Cross
ST17	Universal Ring
ST21S	Servo Rod Short
ST23	GD Outdrive
S124	Ball Stud 6mm
S124M	Ball Stud 8mm
5131	GD2 Output Axle
5137	S137 Spool Outdrive
P01	Ball Joint1
P02	Ball Joint2
PU3	Arm Haar
F04 D05	AIIII Hasp Sway Bar Joint
1.00	Sway Dai JUIII

Parts#	Description
P06-1	Downston Collar
P07	Arm Clin
P09	Shock Screw Holder
P10	Diff Cover
P11	Gear Tube
P12	Sway Bar Holder
P13-4	Ball Ends Set
P14	Bumper Set
P15	Foam Bumper
P16	Lock Ring
P20	Front Universals Ring
P23	Outer Battery Holder
P24	Inner Battery Holder
P25	Battery Clamp
D30	GD2 Cross Pin
	Damper Gauge
C01L2	Lower Deck 2
C014L-S2	Alloy Lower Deck S2
C21_2	FEG Top Deck Narrow
C04M	Suspension Arm
SW/B10	Sway Bar 1 0mm
SWD10	Sway Bar 1.0mm
SVVD11	Sway Bar 1. IIIIII
SVVD12	Sway Bar 1.2mm
30013	Sway Bar I.Smill
	Damper Shook Spring
SPRUI	Shock Spring
SPRUZ	Shock Rod Guide
SPR03	Body Clip
SPRUJ	Body Clip
SPRUO	
SPR07	E-Ring
G03	CD2 Satallita Coor
GUI	GD2 Satellite Gear
	MD106DS Dearing
BIUORS	MR 106RS Bearing
	MD84DS Dearing
D04R3	MDZ4DS Dearing
DINO1	1 5y7 9 Din
	5mm O Bing
	12mm O Bing
OR15 OR152	2x1 5mm O-Ping
OR152	5x1.5mm O-Ring
	6x8x0 1mm Shim
	3x5x0.1mm Shim
SH5v7v0 1	5x7x0.1mm Shim
SH0 5	6x3x0 5mm Spacer (Silver)
SH1 0	6x3x1 0mm Spacer (Grav)
SH1 75	6x3x1 75mm Spacer (Black)
WA02	3 5x9 5x0 2 Washer
WA02	5x15 5x0 3 Washer
SBS	Spring Rating Screw
RHS-1	Ride Height Screw
55373	M3x3 Set Screw
SS3X4	M3x4 Set Screw
SS3X4-1	M3x4 DIN915 Screw
SS3X5	M3x5 Set Screw
SS3X8	M3x8 Set Screw
SC2X4	M2x4 Cap Head Screw
SC2X6	M2x6 Cap Head Screw
SB25X8	M2.5x8 Button Head Screw
SB3X5	M3x5 Button Head Screw
SB3X6	M3x6 Button Head Screw
SB3X10	M3x10 Button Head Screw
SF3X5	M3x5 Flat Head Screw
SF3X6	M3x6 Flat Head Screw

Parts#	Description
SF3X8	M3x8 Flat Head Screw
SF3X10	M3x10 Flat Head Screw
INS-Evoll	Evo II Instruction Manual
STS	A700 Stickers Sheet



Optional Parts

D2.1-S	Damper Set
C01AL-S	Alloy Lower Deck S
C01L2H	Lower Deck L2 Hard
C07	Carbon Bumper
C22	FFG Top Deck Wide
C18	FFG Top Deck Link
C31	FFG Carbon Rod
C31S	FEG Carbon Rod Soft
C32	Carbon Main Shaft
002 973/	EEC Steel Pod
AT13\A/	Wheel Hex Wide
AT 1310 AT 210	Divot Poll Short
A1215	Pivol Dali Shori
AM12-1	Alloy Battery Holder
AM18-1	Front Holder
AM19	Upper Arm Holder
AM26	Rear Ball Holder
AM30-5	Chassis Stiffener
AM48	FFG Main Shaft Support
ST24L	Ball Stud 10mm
P15H	Foam Bumper Hard
P40F	Servo Arm (Futaba)
P40K	Servo Arm (KO)
FCB	Flexible Caster Block Set
P36	FCB Body
P38	FCB Link
OR08	FCB O-Ring
AM28	Allov FCB Link
ST33	FCB Screw
ΔT33	FCB Hey Shim
SB2575	M2 5x5mm Button Head Screw
SD23A3	Spur Dompor Sot
3D1 AT10M	
	SD1 Spur Nul
	SDT Spur Axie
SH2.7R	5x2x2.7 mm Rubber Collar
SD2	Rear Drive Damper Set
AT20-5	SD2 Spur Axle
ST47	SD2 Drive Tube
ST50	SD2 Torsion
SD3	Transmission Damper Set
SPR01S	Shock Spring Soft
ST17-1-S	Universal Ring Set
ST17-1	Universal Ring
ST38	Universal Nut
BC1	Battery Clamps Set
AT26	BC1 Alloy Battery Post
P21S	BC1 Battery Pad
BD1	Ball Diff Set
OW1	One-Way Axle set
IAS	Increased Ackermann Set
AM20	IAS Steering Rod
AM21	IAS Steering Plate
ΔΜ22	IAS Steering Arm
	Iniversals Rearings Set
	Av1 Emm bell beering
D410	4x I.Smm ball bearing
5110	1.5/2mm Pin
GD3	
AS-700L	Brushless Low-Profile Car Servo
AS-700L-GS	Servo Gear Set for AS700L Servo



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