

BEFORE YOU START

The Photon is a professional 1/10 scale touring car and should be built only by persons aged 16 years or older with previous experience building and operating R/C model cars. This is not a toy and is not intended for use by beginners or by children without direct supervision of a responsible, knowledgeable adult. Read the instruction manual carefully before building.

T.O.P. Racing shall not be liable for any loss, injury or damages, whether direct, indirect, special, incidental, or consequential, arising from the use, misuse, or abuse of this product and/or any product or accessory required to operate this product.

GENERAL PRECAUTIONS

- This product is not suitable for children under 16 years of age without the direct supervision of a knowledgeable adult.
- Assemble this kit only in places away from the reach of small children.
- First-time builders and users should seek advice from people who have building experience in order to assemble the model correctly and to allow the model to reach its performance potential.
- · Exercise care when using tools and sharp instruments.
- Take care when building, as some parts may have sharp edges.
- Keep small parts out of reach of small children. Children must not be allowed to put any parts in their mouth, or pull vinyl bag over their head.
- Immediately after using your model, do not touch equipment on the model such as the motor and speed controller, because they generate high temperatures. You may seriously burn yourself by touching them.
- · Follow the operating instructions for the radio equipment at all times.
- Do not put fingers or any objects inside rotating and moving parts, as this may cause damage or serious injury as your finger, hair, clothes, etc. may get caught.
- Be sure that your operating frequency is clear before turning on or running your model, and never share the same frequency with somebody else at the same time. Ensure that others are aware of the operating frequency you are using and when you are using it.
- Always turn on your transmitter before turning on the receiver in the car. Always turn off the receiver before turning off your transmitter.
- Keep the wheels of the model off the ground when checking the operation
 of the radio equipment.
- Disconnect the battery pack before storing your model.
- 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 public places and roads or areas where its operation can conflict with or disrupt pedestrian or vehicular traffic.
- Do not use your model:
 - Near real cars, animals, or people that are unaware that an RC car is being driven.
 - 2. In places where children and people gather
 - 3. In limited indoor spaces
 - 4. In wet conditions
 - 5. In the street
 - 6. In areas where loud noises can disturb others such as hospitals and residential areas
 - At night or anytime your line of sight to the model may be obstructed or impaired in any way.

To prevent any serious personal injury and/or damage to property, please be responsible when operating all remote controlled models.

ELECTRICAL PRECAUTIONS

- Insulate any exposed electrical wiring (using heat shrink tubing or electrical tape) 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 shortcircuits resulting in fire.
- Low battery power will result in loss of control. Loss of control can
 occur due to a weak battery in either the transmitter or the receiver
 Weak running battery may also result in an out of control car if your
 car's receiver power is supplied by the running battery. Stop operation
 immediately if the car starts to slow down.
- When not using RC model, always disconnect and remove battery.

- Do not disassemble battery or cut battery cables. If the running battery short-circuits, approximately 300W of electrical power can be discharged, leading to fire or burns. Never disassemble battery or cut battery cables.
- Use a recommended charger for the receiver and transmitter batteries and follow the instructions correctly. Over-charging, incorrect charging, or using inferior chargers can cause the batteries to become dangerously hot. Recharge battery when necessary. Continual recharging may damage battery and, in the worst case, could build up heat leading to fire. If battery becomes extremely hot during recharging, please ask your local hobby shop for check and/or repair and/or replacement.
- Regularly check the charger for potential hazards such as damage to the cable, plug, casing or other defects. Ensure that any damage is rectified before using the charger again. Modifying the charger may cause shortcircuit or overcharging leading to a serious accident. Therefore do not modify the charger.
- Always unplug charger when recharging is finished.
- Do not recharge battery while battery is still warm. After use, battery retains heat. Wait until it cools down before charging.
- Do not allow any metal part to short circuit the receiver batteries or other electrical/electronic device on the model.
- Immediately stop running if your RC model gets wet as may cause short circuit.
- Please dispose of batteries responsibly. Never put batteries into fire.

EQUIPMENT RECOMMENDED (NOT INCLUDED)

- · Radio Transmitter
- Radio receiver
- · Batteries for Transmitter
- Electronic Speed Control
- Steering Servo
- 540 Type Motor or Brushless Motor System
- Pinion Gear (64 Pitch)
- 7.2V, 6 Cell Sub-C Battery Pack or suitable Li-Po Pack
- 190mm Body Shell
- · Touring Car Wheels, Tires and Inserts

TOOLS RECOMMENDED (NOT INCLUDED)

- 1.5mm, 2.0mm, 3.0mm Allen Wrench
- 5.0mm, 5.5mm & 7.0mm Hex Socket Wrench
- Modelers Craft Knife
- Small Cross Head Screw Driver
- Turnbuckle Wrench
- Calipers/Ruler
- Camber Gauge
- Battery Strapping Tape
- Instant Glue/Thread Lock
- · Shock Oil
- Thrust Grease, Diff. Grease, Joint Grease
- Paint (for Bodyshell)

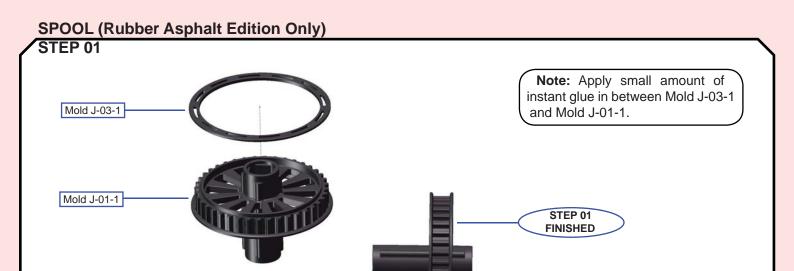
NOTE:

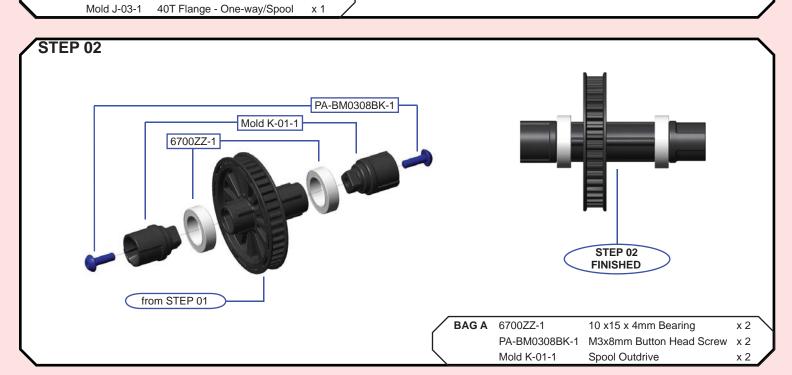
- The Photon chassis uses the best available components. All replacement parts can be purchased from your local hobby or model shop.
- There are 2 versions of the Photon the Rubber Asphalt Pro Edition and the Foam Carpet Pro Edition. Ask you local hobby shops for confirming which kit you would like to purchase.
- This instruction manual contains a blank setup sheet for your own setup record.

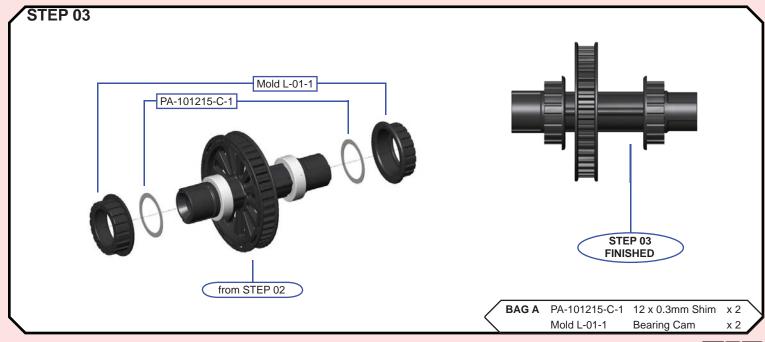
Enjoy building and driving your Photon!!









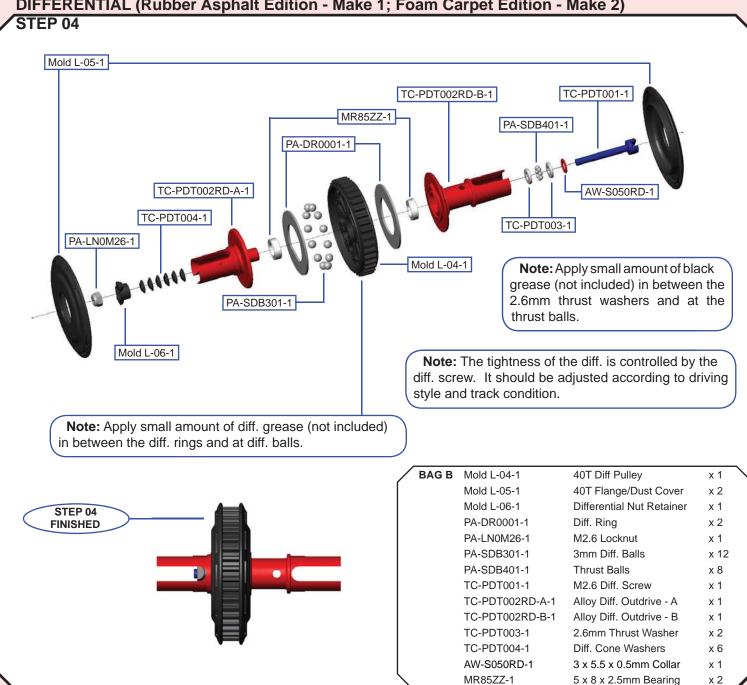


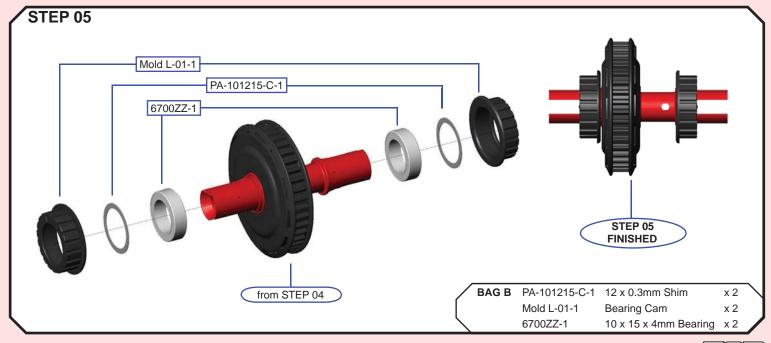
BAG A

Mold J-01-1

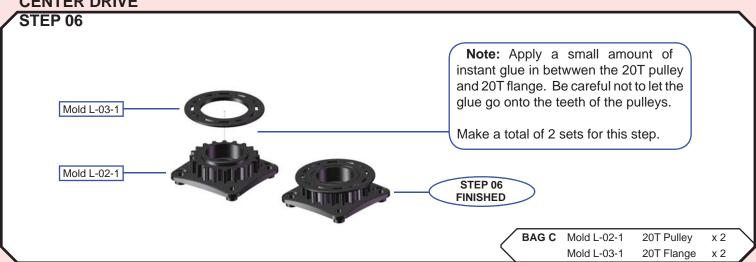
Spool

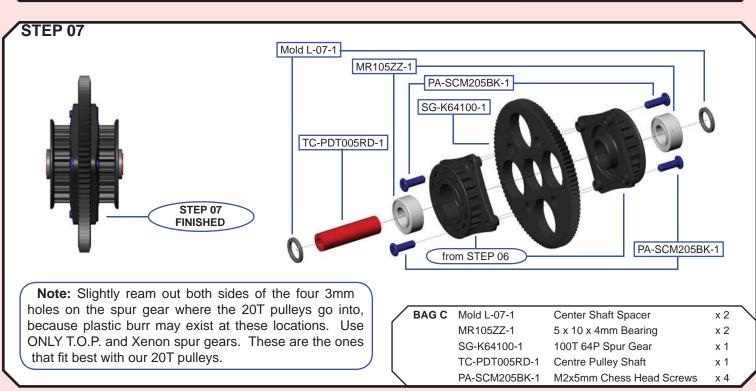
DIFFERENTIAL (Rubber Asphalt Edition - Make 1; Foam Carpet Edition - Make 2)



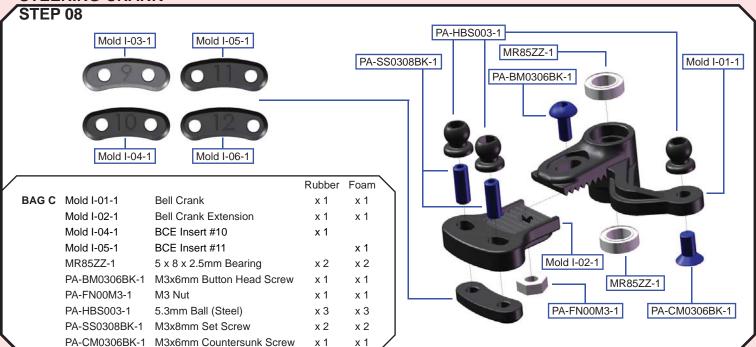


CENTER DRIVE





STEERING CRANK



STEP 08 cont'd



STEP 08 FINISHED

STEERING GEOMETRIES



Note: Radial Adjustments

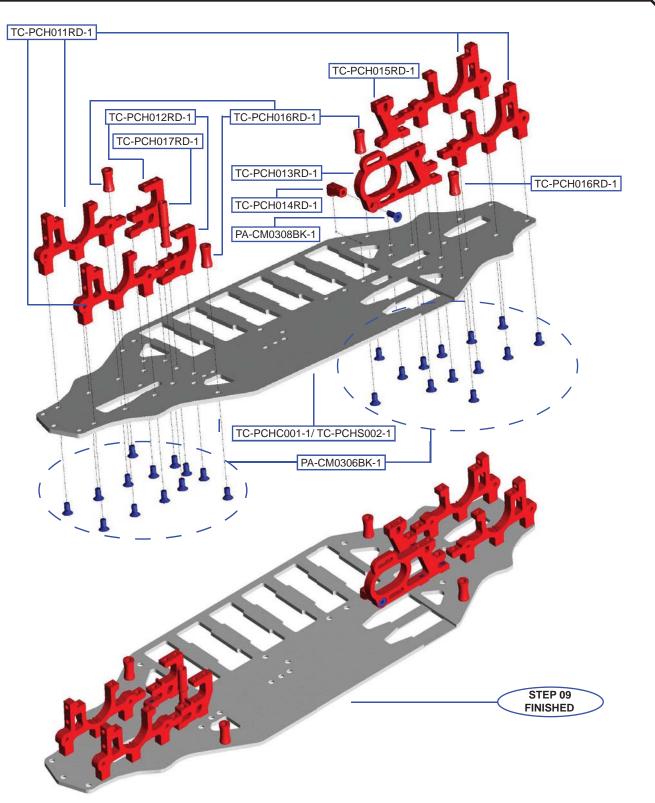
This is our latest innovation of steering geometry adjustment. By using the following inserts, the steering width could be adjusted radially with minimal change in radial steering length. This would isolate the steering geometry change created by the steering length adjustment described in the Length Adjustments.

Note: Length Adjustments

There are a total of 3 steering lenght positions as shown above. Use Position C as the initial setup.



STEP 09

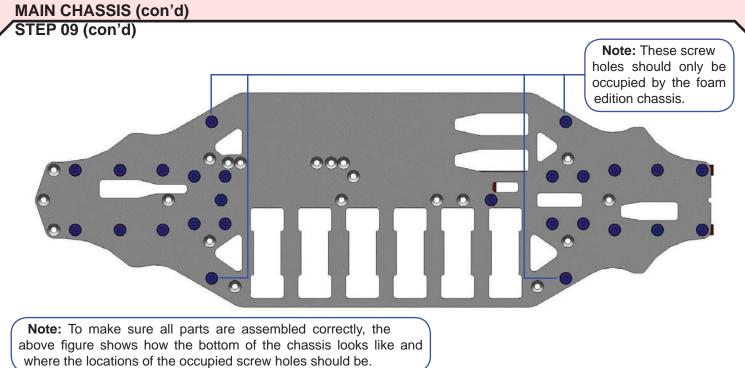


Note: Pay special attention to the parts table. Not all parts on the list are needed to complete this step, depending on whether your kit is rubber asphalt edition or foam carpet edition!!

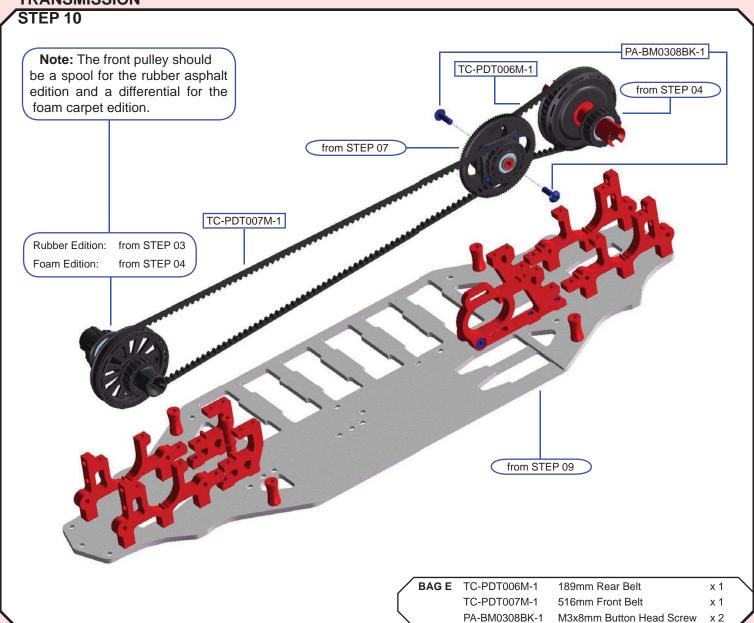
				Rubber	Foam	
	BAG D	TC-PCHC001-1	6-cell Rubber Chassis (2.5mm)	x 1		
		TC-PCHS002-1	6-cell Foam Chassis (3.0mm)		x 1	
		TC-PCH011RD-1	Bulkhead	x 4	x 4	
		TC-PCH012RD-1	Steering Mount Plate	x 2	x 2	
		TC-PCH013RD-1	Motor Plate	x 1	x 1	
		TC-PCH014RD-1	Motor Plate Support	x 1	x 1	
		TC-PCH015RD-1	Mount Plate	x 1	x 1	
		TC-PCH017RD-1	Steering Post	x 1	x 1	
		TC-PCH016RD-1	Standoff Post (12mm)		x 4	
		PA-CM0306BK-1	M3x6mm Countersunk Screw	x 22	x 26	
_		PA-CM0308BK-1	M3x8mm Countersunk Screw	x 1	x 1	

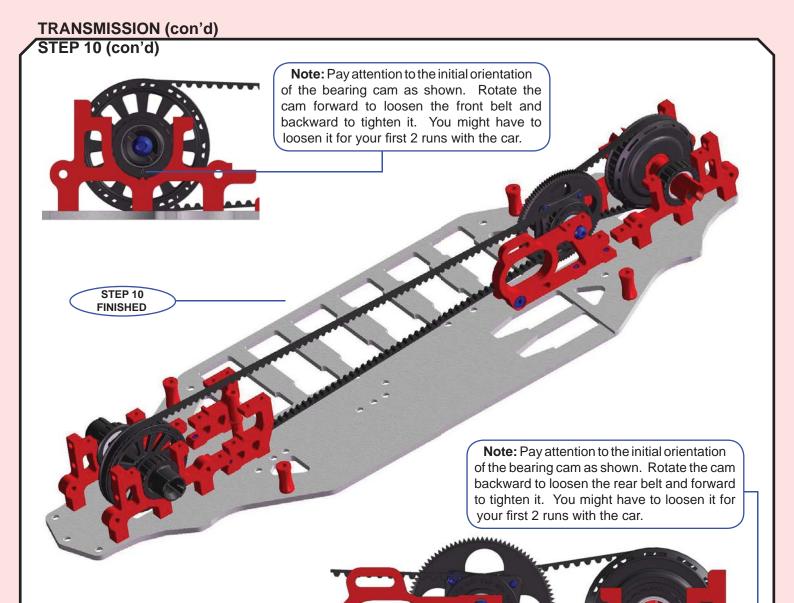






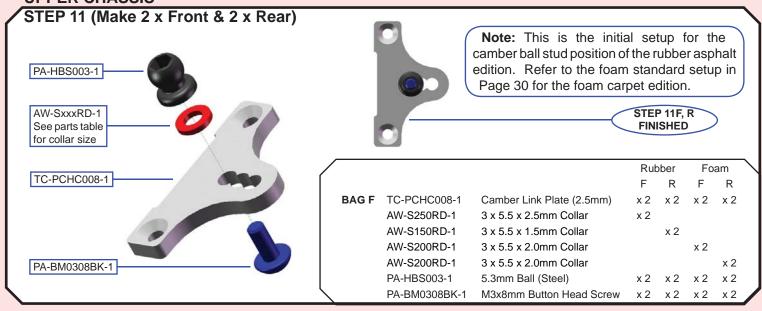
TRANSMISSION



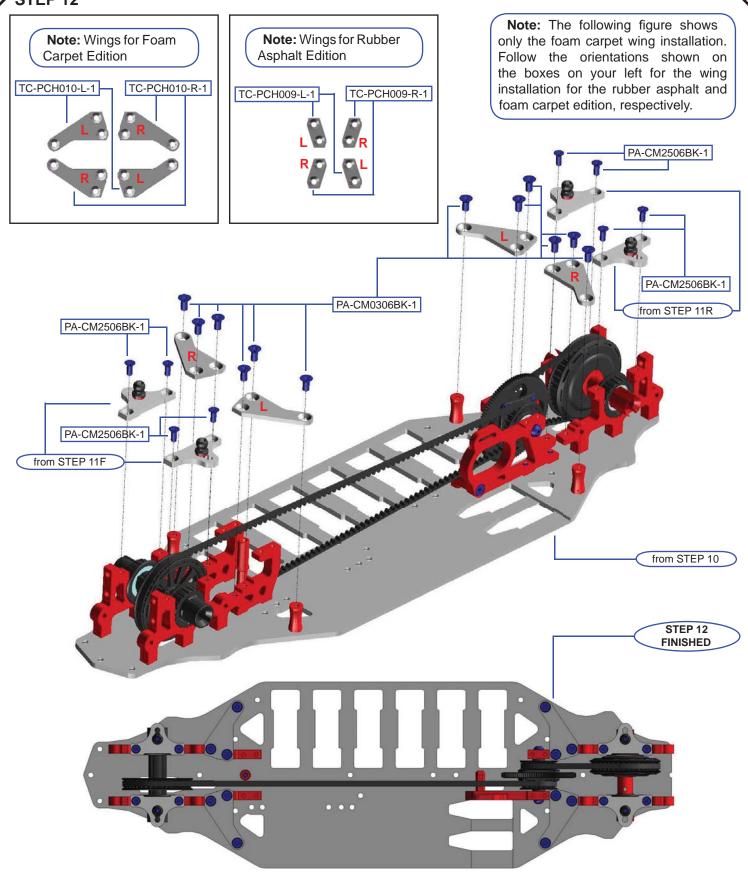


Note: Pay attention to the initial position of the center drive assembly. It is set at its lowest. The position should be heightened when using a larger spur gear to avoid touching the main chassis.

UPPER CHASSIS



STEP 12



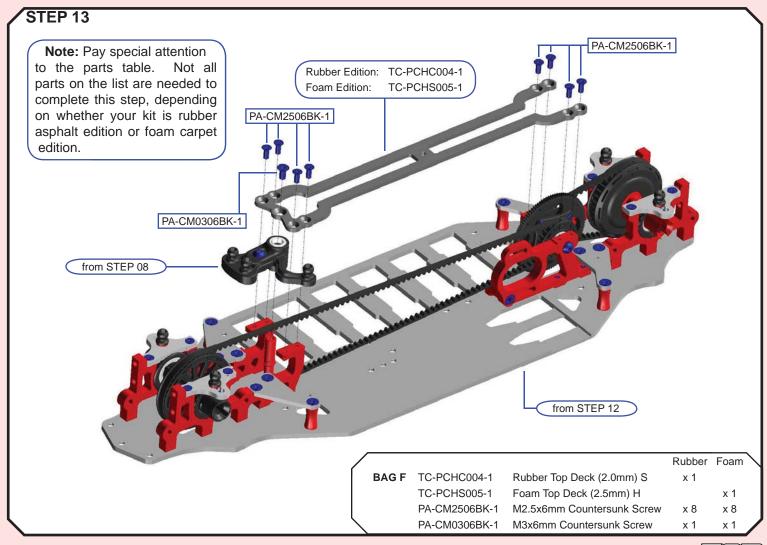
Note: Pay special attention to the parts table. Not all parts on the list are needed to complete this step, depending on whether your kit is rubber asphalt edition or foam carpet edition.

BAG F	TC-PCH009-L-1	Rubber Wing L Soft (2.0mm)	x 2	
	TC-PCH009-R-1	Rubber Wing R Soft (2.0mm)	x 2	
	TC-PCH010-L-1	Foam Wing L Hard(2.0mm)		x 2
	TC-PCH010-R-1	Foam Wing R Hard (2.0mm)		x 2
	PA-CM0306BK-1	M3x6mm Countersunk Screw	x 8	x 12
	PA-CM2506BK-1	M2.5x6mm Countersunk Screw	x 8	x 8

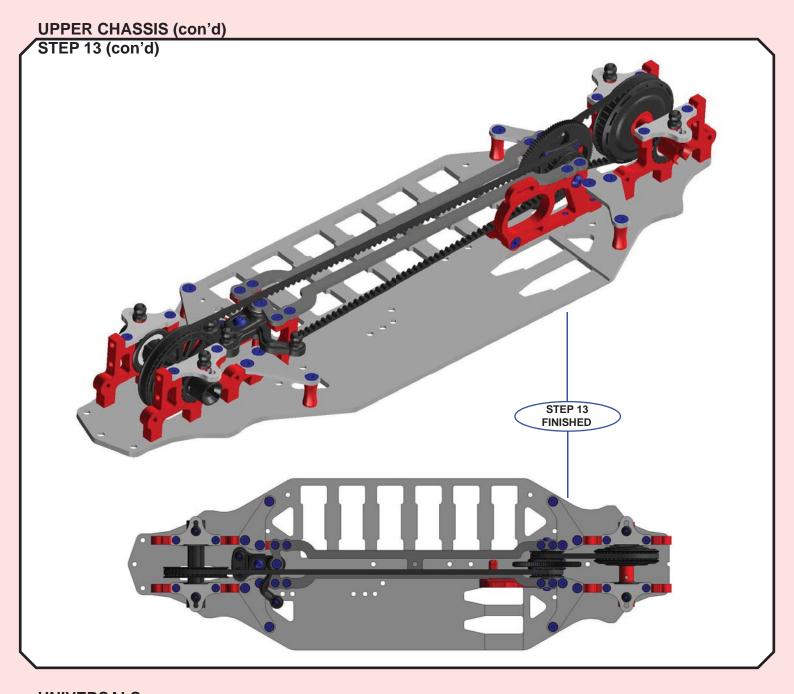


Rubber Foam

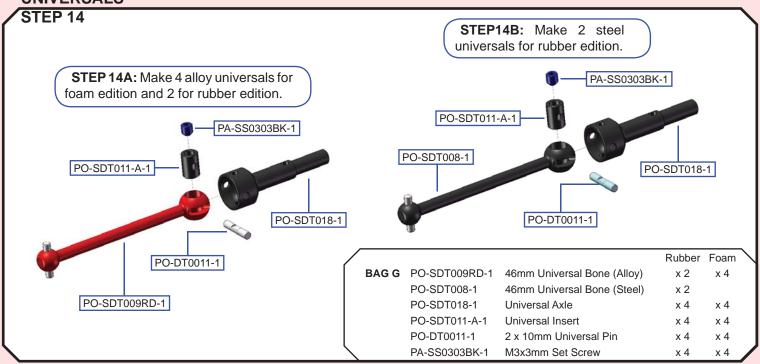
UPPER CHASSIS (con'd)
STEP 12 (con'd)



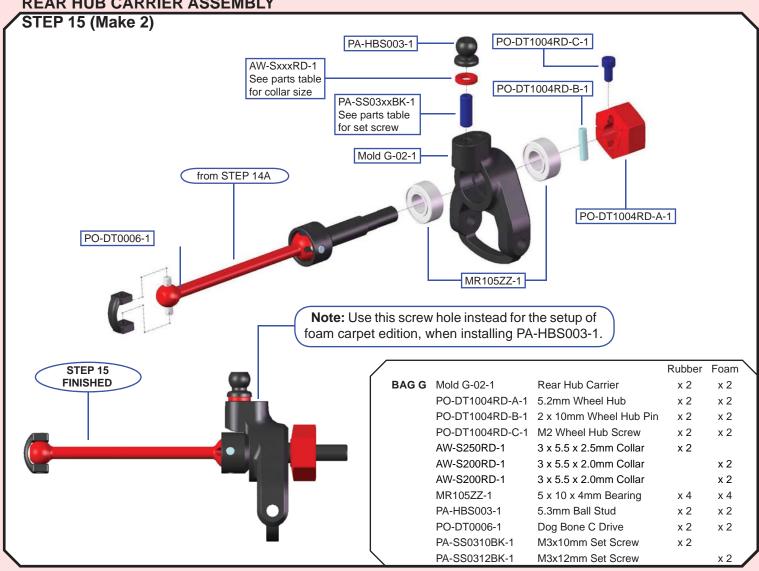
STEP 12 FINISHED



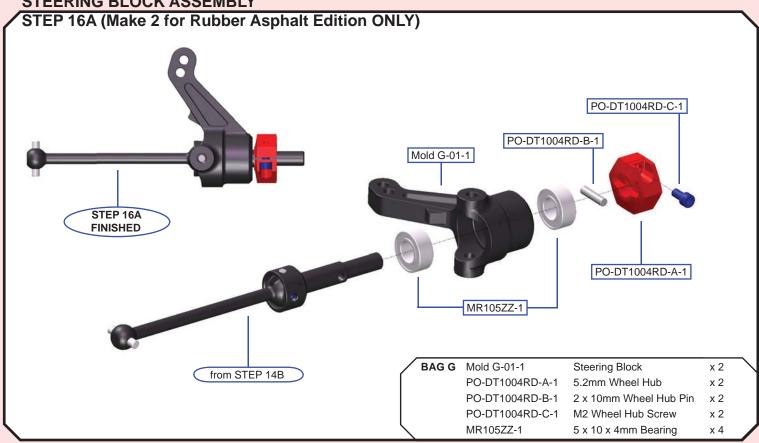




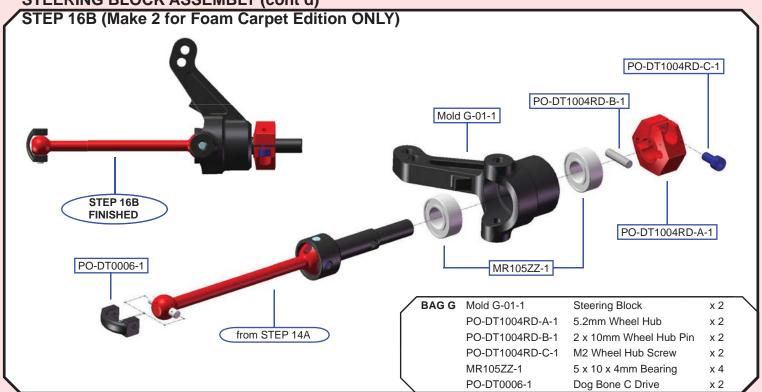
REAR HUB CARRIER ASSEMBLY

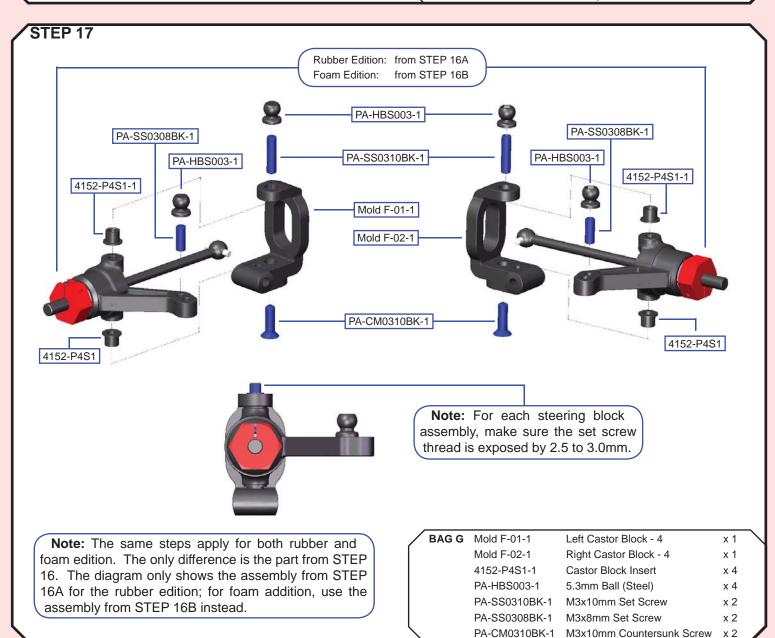


STEERING BLOCK ASSEMBLY

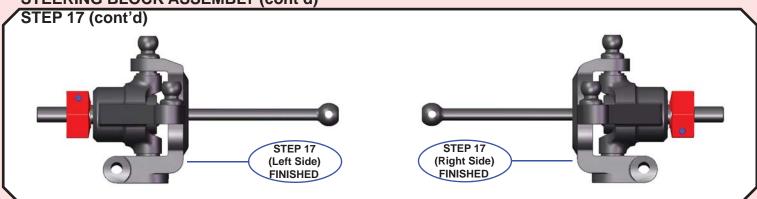


STEERING BLOCK ASSEMBLY (cont'd)

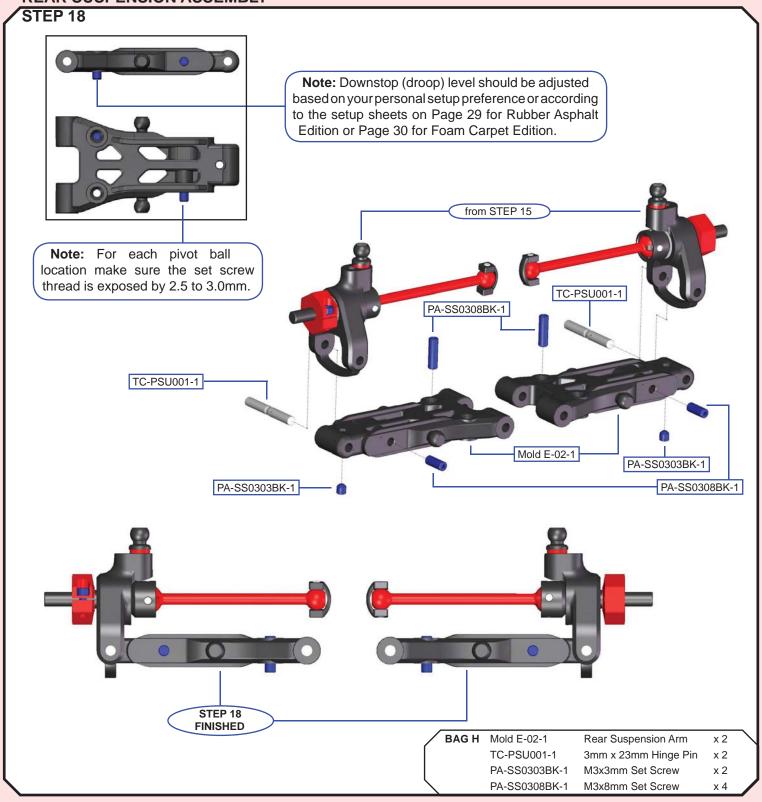




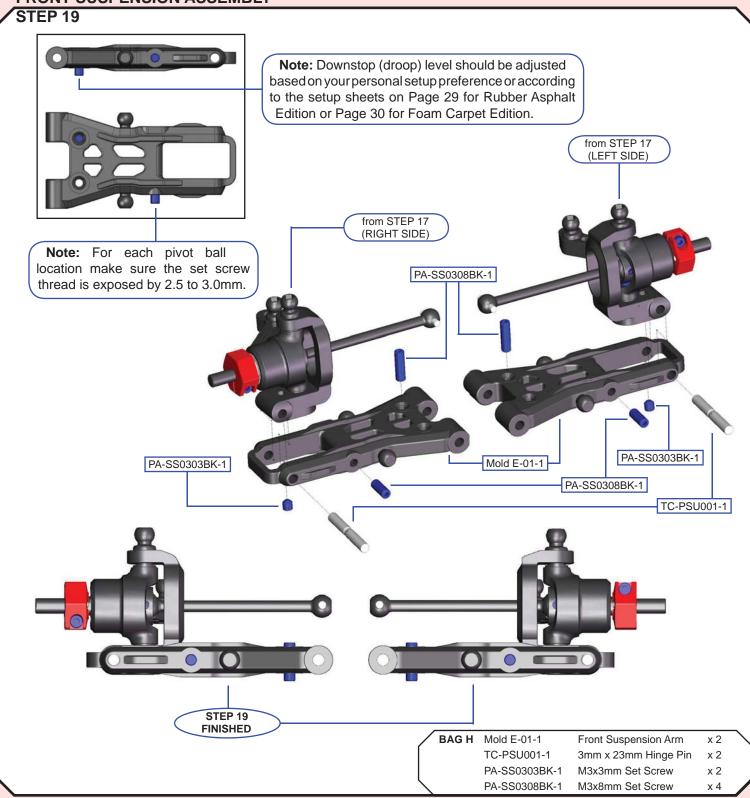
STEERING BLOCK ASSEMBLY (cont'd)



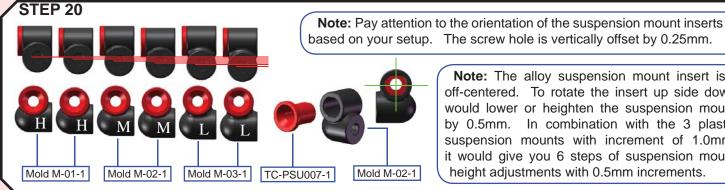
REAR SUSPENSION ASSEMBLY



FRONT SUSPENSION ASSEMBLY



SUSPENSION MOUNT



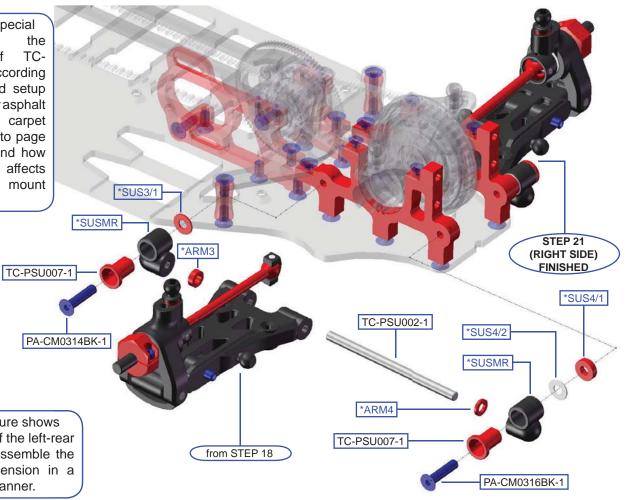
Note: The alloy suspension mount insert is off-centered. To rotate the insert up side down would lower or heighten the suspension mount by 0.5mm. In combination with the 3 plastic suspension mounts with increment of 1.0mm, it would give you 6 steps of suspension mount height adjustments with 0.5mm increments.

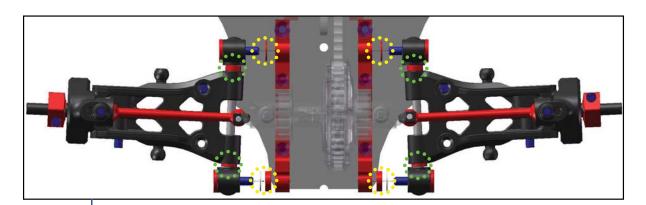


STEP 21

Note: Pay special attention to the orientation of TC-PSU007 according to the standard setup sheet for rubber asphalt foam and edition. Refer to page 15 to understand how the orientation affects suspension height.

Note: This figure shows the assembly of the left-rear suspension. Assemble the right-rear suspension in a symmetrical manner.



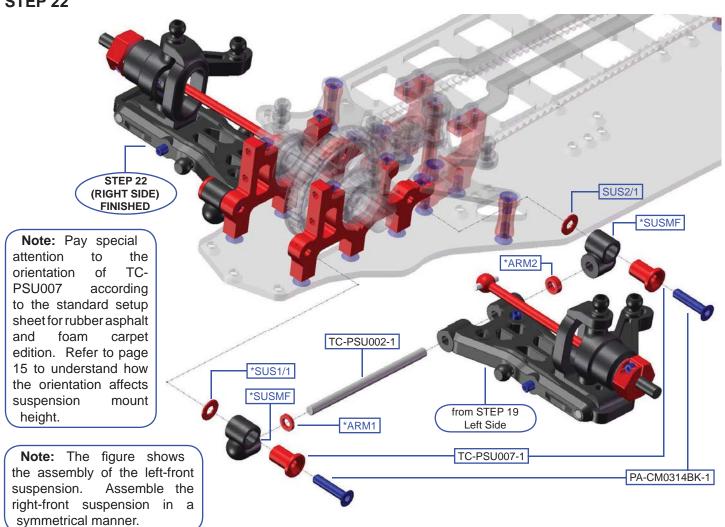


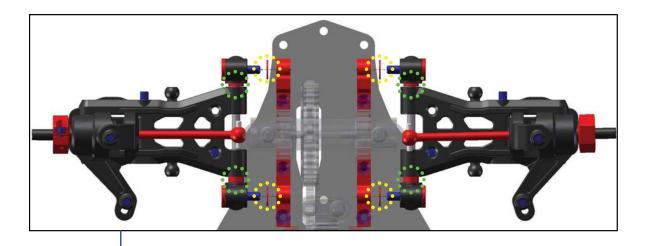
Note:

- 1. The thicknesses and positions of the large spacers determines tread width and toe angle (marked by "yellow dots").
- 2. The thicknesses and positions of the small spacers determine the wheel base in the forward/rearward direction (marked by "green dots").
- *Refer to the setup sheets for more details.

					Rubber	Foam	
	BAG H	*CHEMD	Mold M-02-1 Mold M-03-1	Suspension Mount M - MRC	x 4		
		SUSIVIK	Mold M-03-1	Suspension Mount L - LRC		x 4	
			TC-PSU007-1	Suspension Mount Insert	x 4	x 4	
			TC-PSU002-1	3mm x 51mm Hinge Pin	x 2	x 2	
		*01100/4	AW-M100RD-1 AW-M100RD-1	Large 3mm Spacer (t = 1.0mm)	x 2		
		3033/1	AW-M100RD-1	Large 3mm Spacer (t = 1.0mm)		x 2	
		*CLIC4/4.4	AW-M300RD-1 AW-M300RD-1	Large 3mm Spacer (t = 3.0mm)	x 2		
		3034/1	AW-M300RD-1	Large 3mm Spacer (t = 3.0mm)		x 2	
		*CLICA/O	AW-M040SV-1 AW-M040SV-1	Large 3mm Spacer (t = 0.4mm)	x 2		
		3034/2	AW-M040SV-1	Large 3mm Spacer (t = 0.4mm)		x 2	
		* \ D \ \ \ 2 \ \	AW-S150RD-1 AW-S200RD-1	3 x 5.5 x 1.5mm Collar		x 2	
		AININO	AW-S200RD-1	3 x 5.5 x 2.0mm Collar	x 2	x 2	
		*ARM4	AW-S150RD-1	3 x 5.5 x 1.5mm Collar	x 2		
			PA-CM0314BK-1	M3x14mm Countersunk Screw	x 2	x 2	
_			PA-CM0316BK-1	M3x16mm Countersunk Screw	x 2	x 2	4
				·			

STEP 22





Note:

- 1. The thicknesses and positions of the large spacers determines tread width and toe angle (marked by "yellow dots").
- 2. The thicknesses and positions of the small spacers determine the wheel base in the foward/rearward direction (marked by "green dots").
- *Refer to the setup sheet for more details.

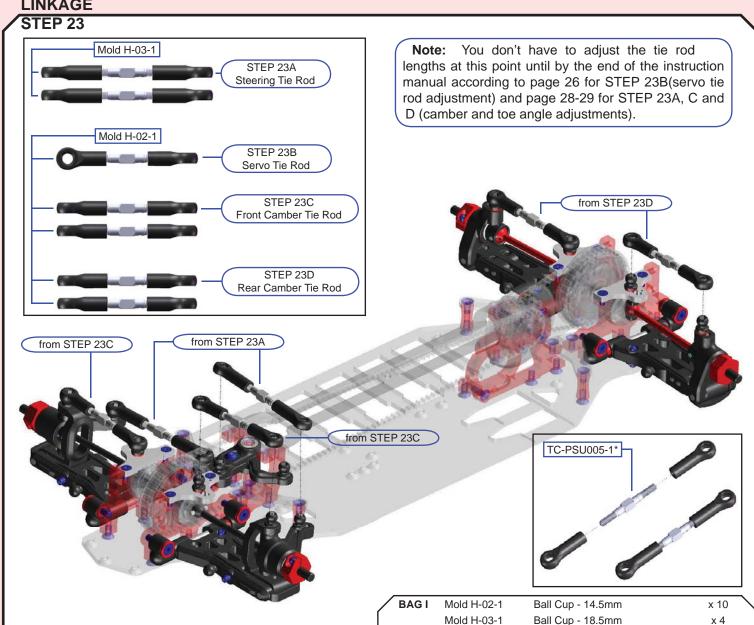
BAG H	*CLICME	Mold M-02-1 Mold M-02-1	Suspension Mount B - MRC	x 4	
	SUSIVIE	Mold M-02-1	Suspension Mount B - MRC		x 4
		TC-PSU007-1	Suspension Mount Insert	x 4	x 4
		TC-PSU002-1	3mm x 51mm Hinge Pin	x 2	x 2
	*CLIC4/4	AW-M100RD-1 AW-M080SV-1	Large 3mm Spacer (t = 1.0mm)		x 2
	3031/1	AW-M080SV-1	Large 3mm Spacer (t = 0.8mm)	x 2	
	*SUS2/1	AW-M100RD-1	Large 3mm Spacer (t = 1.0mm)		x 2
	*	AW-S150RD-1 AW-S150RD-1	3 x 5.5 x 1.5mm Collar	x 2	
	AINIVIT	AW-S150RD-1	3 x 5.5 x 1.5mm Collar		x 2
	*APM2 (AW-S150RD-1 AW-S150RD-1	3 x 5.5 x 1.5mm Collar	x 2	
	AINIVIZ	AW-S150RD-1	3 x 5.5 x 1.5mm Collar		x 2
		PA-CM0314BK-1	M3x14mm Countersunk Screw	x 4	x 4
		PA-CM0316BK-1	M3x16mm Countersunk Screw		



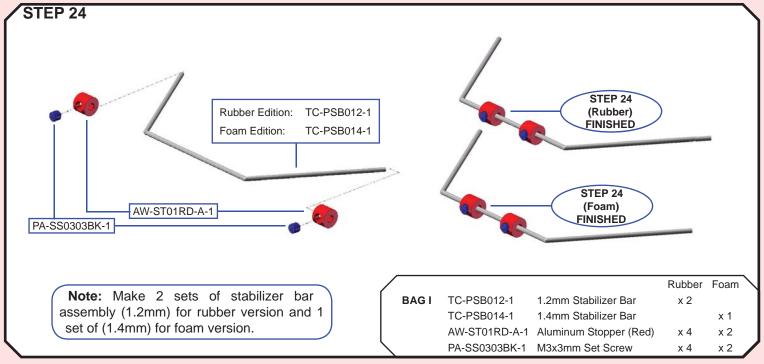
Foam

Rubber

LINKAGE





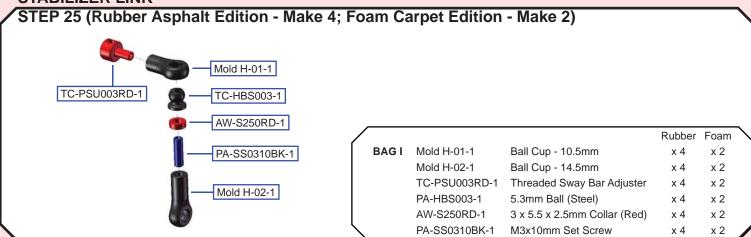


TC-PSU005-1

3mm x 30mm Tie Rod (Steel)

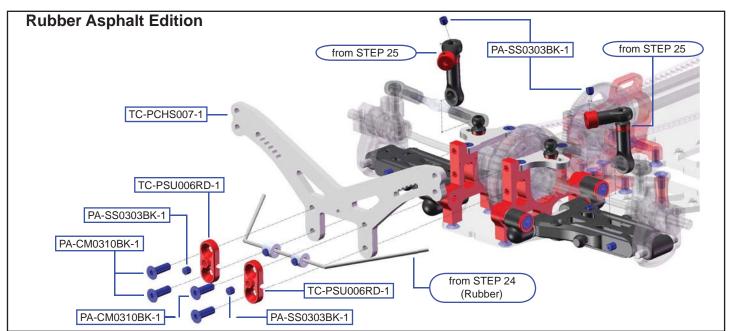
х 7

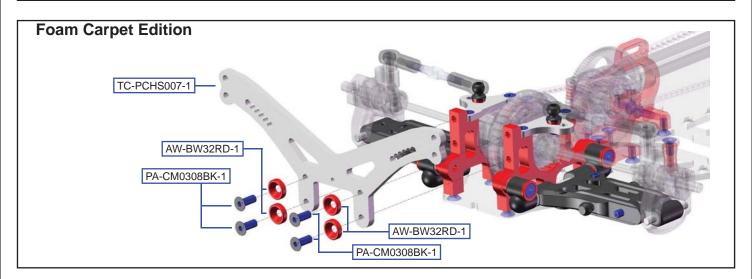
STABILIZER LINK



SHOCK TOWERS (REAR)

STEP 26

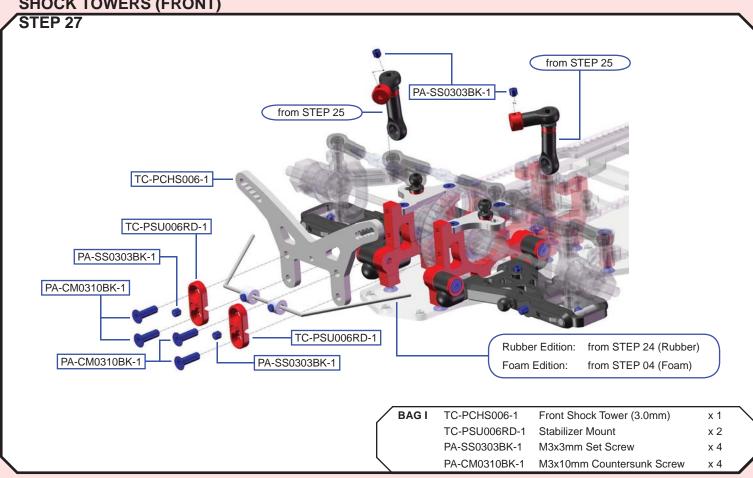




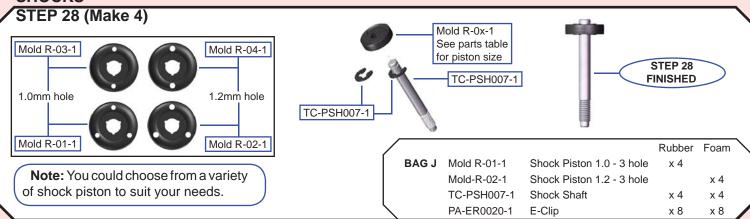
/				Rubber	Foam
	BAG I	TC-PCHS007-1	Rear Shock Tower (3.0mm)	x 1	x 1
		TC-PSU006RD-1	Stabilizer Mount	x 2	
		PA-SS0303BK-1	M3x3mm Set Screw	x 4	
		PA-CM0310BK-1	M3x10mm Countersunk Screw	x 4	
		AW-BW32RD-1	Large Bevel Washer (Red)		x 4
		PA-CM0308BK-1	M3x8mm Countersunk Screw		x 4

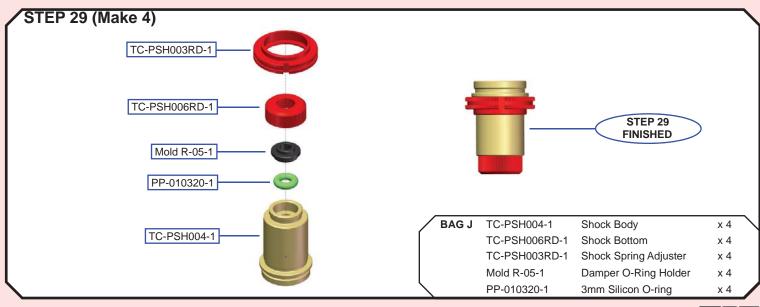


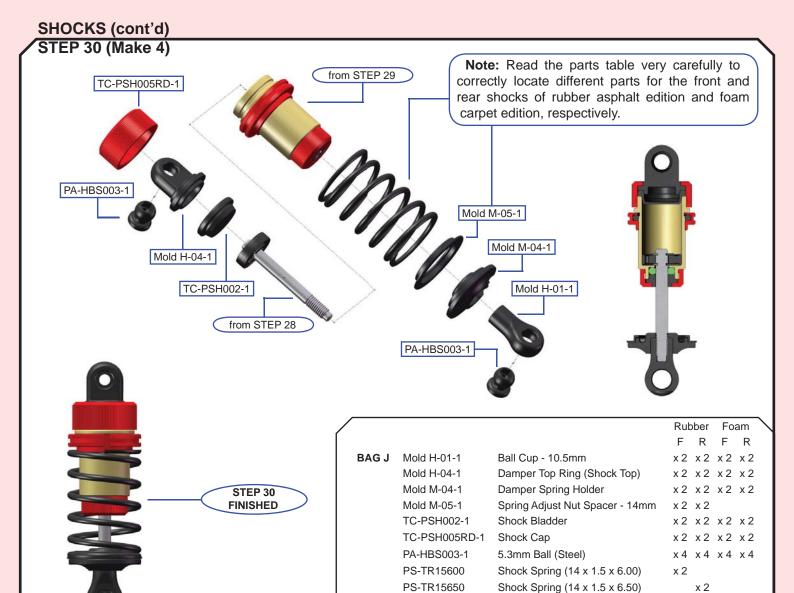


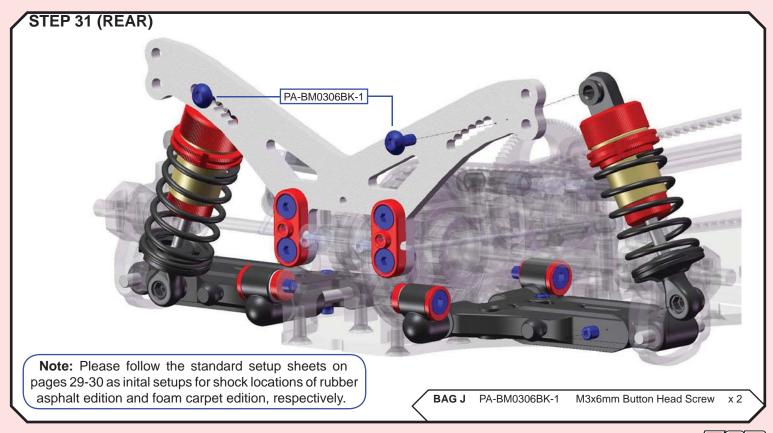


SHOCKS









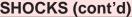
PS-TF17675

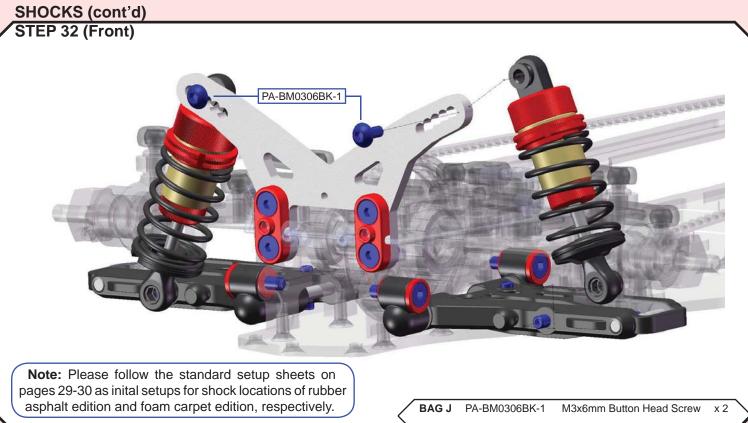
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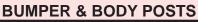
Shock Spring (13 x 1.7 x 6.75)

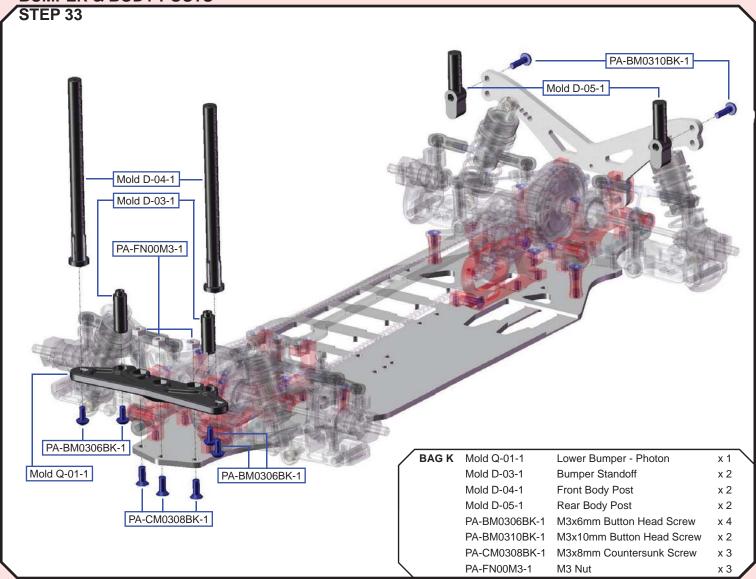
Shock Spring (13 x 1.4 x 6.25)

x 2





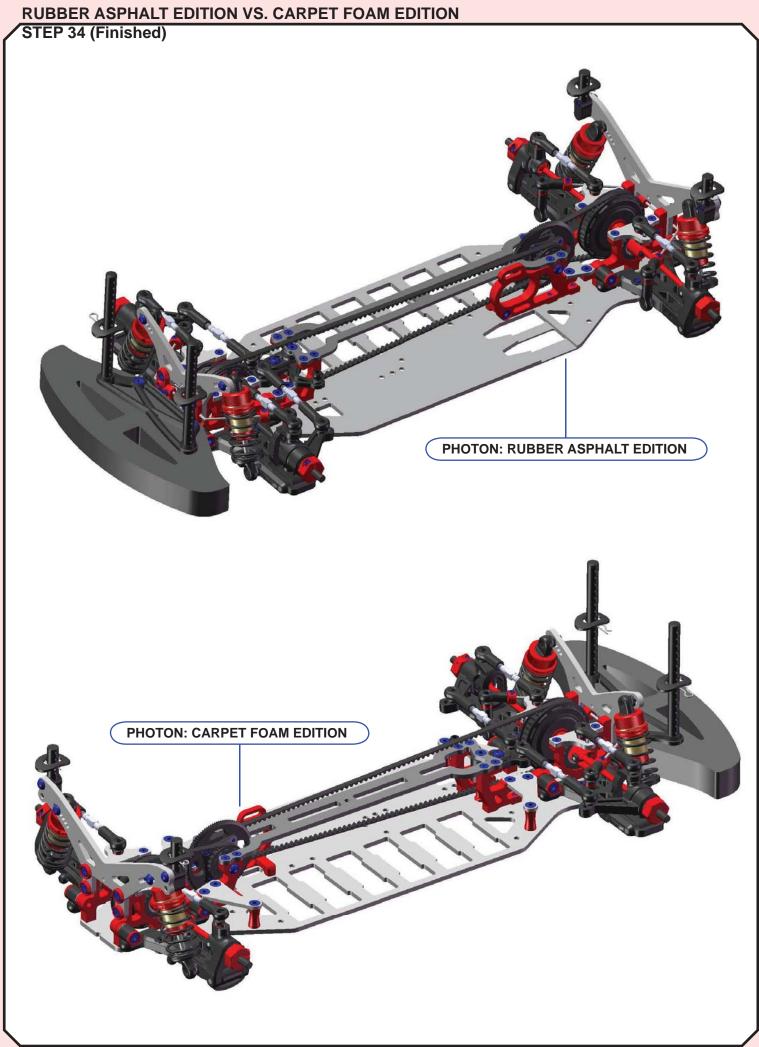




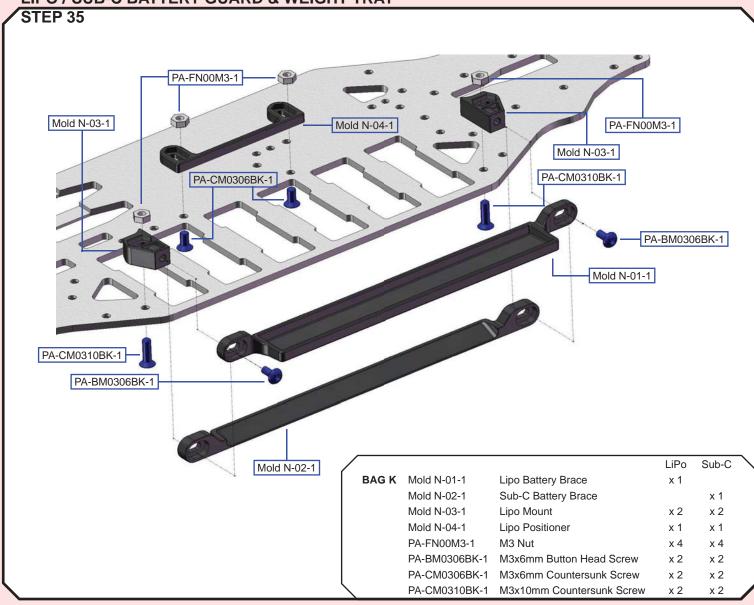
BUMPER & BODY POSTS (cont'd) STEP 34 PA-BPS3SV-1 Mold D-07-1 PA-BPS3SV-1 Mold D-07-1 PA-CM0308BK-1 PA-BPS3SV-1 Mold D-02-1 Rubber Edition: TC-PCH20R-1 Foam Edition: TC-PCH20F-1 STEP 34 (Rubber Edition) FINISHED STEP 34 (Foam Edition) FINISHED

			Rubber	Foam
BAG K	Mold D-02-1	Upper Bumper	x 1	x 1
	Mold D-07-1	Body Holder	x 4	x 4
	TC-PCH20R-1	Foam Bumper - Rubber Spec.	x 1	
	TC-PCH20F-1	Foam Bumper - Foam Spec.		x 1
	PA-BPS3SV-1	Body Clips	x 4	x 4
	PA-CM0308BK-1	M3x8mm Countersunk Screw	x 2	x 2
	BAG K	Mold D-07-1 TC-PCH20R-1 TC-PCH20F-1 PA-BPS3SV-1	Mold D-07-1 Body Holder TC-PCH20R-1 Foam Bumper - Rubber Spec. TC-PCH20F-1 Foam Bumper - Foam Spec. PA-BPS3SV-1 Body Clips	BAG K Mold D-02-1 Upper Bumper x 1 Mold D-07-1 Body Holder x 4 TC-PCH20R-1 Foam Bumper - Rubber Spec. x 1 TC-PCH20F-1 Foam Bumper - Foam Spec. PA-BPS3SV-1 Body Clips x 4

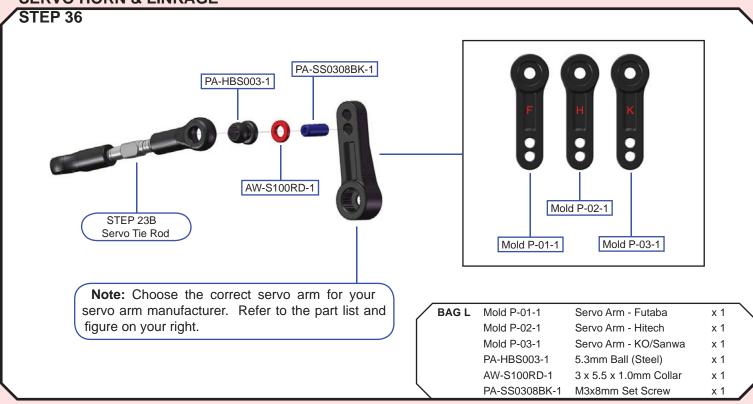




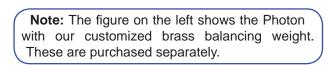
LIPO / SUB-C BATTERY GUARD & WEIGHT TRAY



SERVO HORN & LINKAGE



SERVO ARM & LINKAGE (cont'd)
STEP 37 Mold P-04-1 from STEP 36 PA-BM0306BK-1 Mold P-04-1 AW-BW31RD-1 Note: The servo tie rod should form a right angle with the servo arm for proper steering balance. PA-CM0308BK-1 PA-CM0306BK-1 Your Photon is ready to race!!



/	BAG L	Mold P-04-1	Servo Mount - Large	x 2
		AW-BW31RD-1	Bevel Washer (Red)	x 2
		PA-BM0306BK-1	M3x6mm Button Head Screw	x 1
		PA-CM0306BK-1	M3x6mm Countersunk Screw	x 2
		PA-CM0308BK-1	M3x8mm Countersunk Screw	x 2



Name:_____ Date:____ Track:____

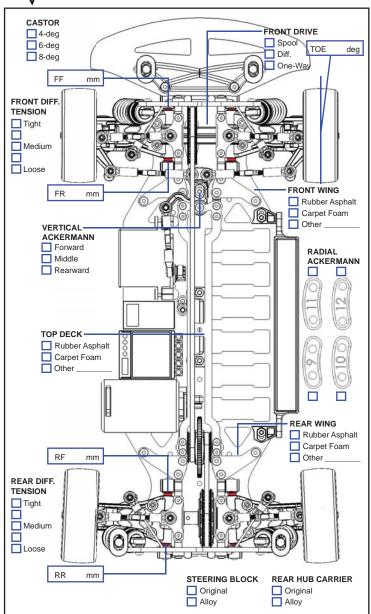
Condition:_____ Temperature:____

MARK POSITION

Rubber Asphalt Edition
Foam Carpet Edition

___ 1.2mm

2 holes



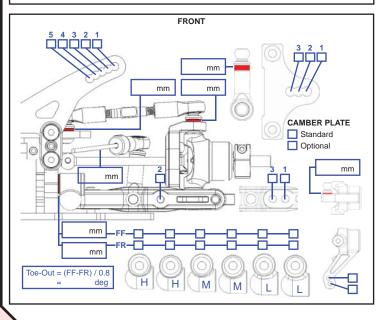
FRONT MEASU	REMENTS	FRON	IT SHOCKS		
RIDE HEIGHT	mm	OIL WEIGHT	wt		
CAMBER ANGLE	deg	PISTON	Standard/Optional		
DROOP	mm	BLADDER			
WHEEL HUBS	mm	SPRING			
WHEEL SPACER	mm	NOTE			

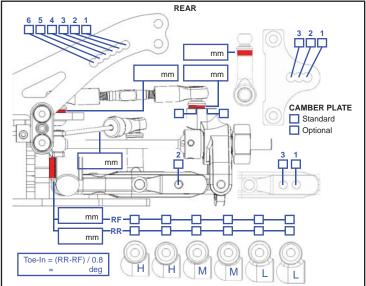
1.0mm



MOTOR	
SPUR GEAR	
PINION GEAR	
BATTERY	
BODY SHELLS	
WING	
ESC SETTING	

	FRONT	REAR
BRAND		
COMPOUND		
INSERT		
WHEEL		
TIRE TREATMENT		
·		,









Name: Date: Track: Rubber Std. Setup

Condition:_____ Temperature:_____

PINION GEAR

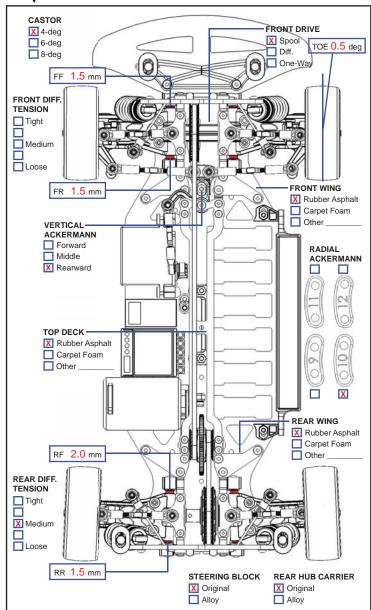
BODY SHELLS

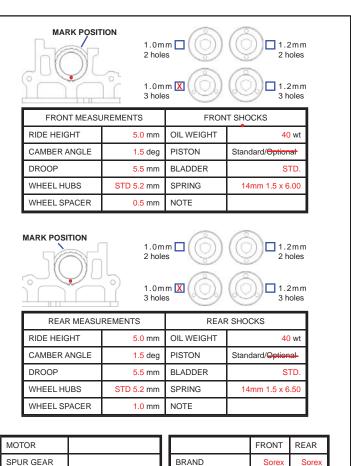
ESC SETTING

BATTERY

WING







COMPOUND

TIRE TREATMENT

FL FR

INSERT

WHEEL

7 4V 5000mAh 400

PF Mazda Speed 6

STD.

36R

HaraV3

Solaris

FX-II

RL

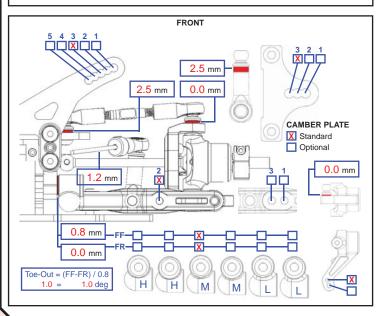
36R

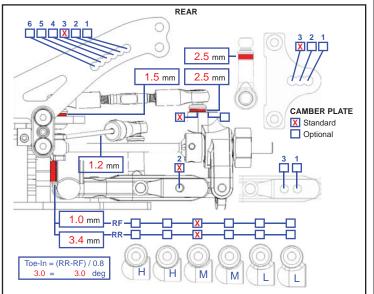
HaraV3

Solaris

FX-II

RR









Name: Date: Track: Foam Std. Setup

Condition:_____ Temperature:____

MARK POSITION

Rubber Asphalt Edition

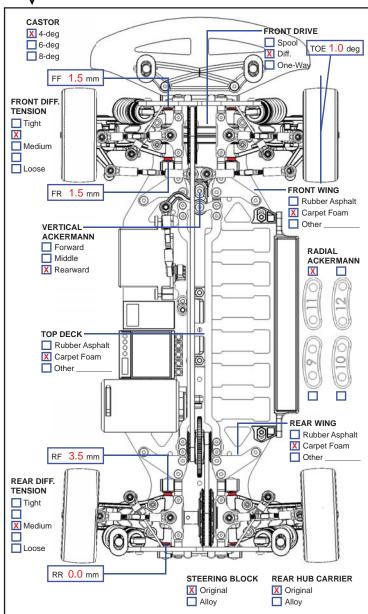
X Foam Carpet Edition

1.2mm

2 holes

2 holes

X 1.2mm



	1.0m 3 hole		1.2mm 3 holes		
FRONT MEASU	JREMENTS	FRON	IT SHOCKS		
RIDE HEIGHT	4.2 mm	OIL WEIGHT	60 wt		
CAMBER ANGLE	2.5 deg	PISTON	Standard/ Optional		
DROOP	5.0 mm	BLADDER	STD.		
WHEEL HUBS	STD 5.2 mm	SPRING	13mm 1.7 x 6.75		
WHEEL SPACER	1.0 mm	NOTE			
MARK POSITION 1.0mm 2 holes 2 holes					

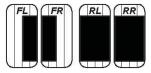
1.0mm

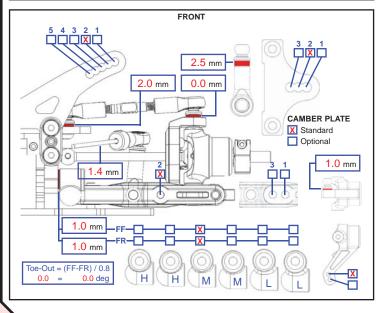
REAR MEASU	REMENTS	REAF	R SHOCKS		
RIDE HEIGHT	4.5 mm	OIL WEIGHT	40 wt		
CAMBER ANGLE	3.0 deg	PISTON	Standard/Optional		
DROOP	5.0 mm	BLADDER	STD.		
WHEEL HUBS	STD 5.2 mm	SPRING	13mm 1.4 x 6.25		
WHEEL SPACER	0.0 mm	NOTE			

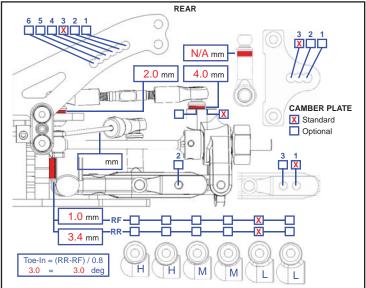
1.0mm

MOTOR	4.5 BL
SPUR GEAR	64P-112T
PINION GEAR	64P-25T
BATTERY	7.4V LiPo
BODY SHELLS	R9F
WING	STD.
ESC SETTING	KO Propo 1.5

	FRONT	REAR
BRAND	Jaco	Jaco
COMPOUND	MAG.	MAG.
INSERT	N/A	N/A
WHEEL	N/A	N/A
TIRE TREATMENT	Jack	Jack











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TC-PRK001 Photon 1/10 Rubber Edition TC-PRK001 Photon 1/10 Foam Edition

Chassis

TC-PCH011RD Bulkhead (Red) TC-PCH012RD Steering Mount Plate (Red) TC-PCH013RD Motor Plate (Red)

TC-PCH014RD Motor Plate Support (Red) TC-PCH015RD Mount Plate (Red)

TC-PCH016RD Standoff Post (Red) (2 pcs) - Foam Std.

TC-PCH017RD Steering Post (Red)

TC-PCH20F Foam Bumper - Foam Standard TC-PCH20R Foam Bumper - Rubber Std. TC-PCHC01 6-Cell Chassis 2.5mm - Rubber Std. TC-PCHC04 Top Deck Soft 2.0mm - Rubber Std TC-PCHC08 Camber Link Plate 2.5mm TC-PCHC09 Wing Soft 2.0mm - Rubber Std.

TC-PCHC10 Wing Hard 2.0mm - Foam Std. TC-PCHS02 6-Cell Chassis 3.0mm - Foam Std. TC-PCHS05 Top Deck Hard 2.5mm - Foam Std. TC-PCHS06 Front Shock Tower

TC-PCHS07 Rear Shock Tower TC-PMNS01 Battery Brace Set TC-PMPS01 Servo Arm & Mount TC-PMQS01 Bumper & Body Post Set Body Post Set SK-CH1002

Drive Train

PA-DR0001 Diff. Ring (2 pcs) PA-SDB324 3mm Steel Balls (24pcs) TC-PDT002RD Alloy Diff. Outdrives TC-PDT005RD Center Pulley Shaft (Red) TC-PDT006M Rear Belt TC-PDT007M Front Belt TC-PDTS01 Thrust Bearing Set TC-PDTS02 Diff. Screw Set

TC-PMJS01 Spool Set TC-PMK104 Spool Outdrives (4 pcs) TC-PML104 Bearing Cam (4 pcs) TC-PMLS01 40T Diff. Pulley TC-PMLS02 20T Center Pulley

Drive Shaft PO-DT0006

C-Joint Blades (4 pcs) PO-DT1004RD 5.2mm Wheel Adapter Set (Red)(4 sets) PO-SDT008 Universal Bone Ver. 2 (1 pc) PO-SDT009RD Al. Universal Bone Ver. 2 (Red) (1 pcs)

PO-SDT018 Axle Shaft Ver. 3 (1 pc) PO-SDT019 Anti-Slip Universal Joint Set (1 pc) PO-SDT020 Universal Shaft Set V.3 (2 sets) PO-SDT021RD Al. Universal Shaft Set V.3 (Red) (2 sets)

Ball Bearing

PA-SB0805 Ball Bearing 5 x 8 x 2.5mm (2 pcs) PA-SB1005 Ball Bearing 5 x 10 x 4mm (8 pcs) PA-SB1510 Ball Bearing 10 x 15 x 4mm (4 pcs)

Suspension TC-PMES01

F & R Suspension Arm (each 1 pc) TC-PMFS01 Castor Block - 4 deg. TC-PMGS01 Steering Block & R. Hub Carrier (1 each)

TC-PMMS01 Suspension Mount Set TC-PSU001 3mm x 23mm Hinge Pin (2 pcs) TC-PSU002 3mm x 51mm Hinge Pin (2 pcs) TC-PSU007 Suspension Mount Insert (2 pcs) 4152-P4S1 King Pin Collar (4 pcs)

Suspension Mount Spacer Set

Shock Absorber

TC-PSUS01

TC-PMMS02 Shock Parts TC-PMRS01 Shock Piston Parts TC-PSH002 Shock Bladder (4 pcs) TC-PSH007 Shock Shaft (2 pcs) TC-PSH101RD Shock Body Set (each 1 pc) TC-PSHS01RD Shock Set (2 sets)

Stabilizer

TC-PSBS01 Stabilizer Bar Set TC-PSB012 1.2mm Stabilizer Bar (2 pcs) - Rubber Std. TC-PSB014 1.4mm Stabilizer Bar (2pcs) - Foam Std. TC-PSU003RD Threaded Sway Bar Adjuster (Red) (2 pcs)

TC-PSU006RD Stabilizer Mount

Steering TC-PMIS01

Bell Crank Set

Shock Spring

PS-TR15600 Gamma Spring 334gf/mm, 19.2lb/in (2 pcs) PS-TR15650 Gamma Spring 306gf/mm, 17.1lb/in (2 pcs) PS-TF17675 Alpha Spring 560gf/mm, 31.3lb/in (2 pcs) PS-TF14625 Beta Spring 306gf/mm, 17.1lb/in (2 pcs)

Spur Gear

Spur Gear 64P 100T Std. SG-K64100

Linkage

TC-PSU005 3mm x 30mm Tie Rod Steel (2 pcs) PA-HBS003 5.3mm Steel Ball (5 pcs) TC-PMHS01 Ball Cup 14.5mm (8 pcs) TC-PMHS02 Ball Cup 18.5mm (4 pcs)

Accessories

PA-AT0001 Antenna Tube (4 pcs) PA-AP0001 Antenna Post (2 pcs) PA-BPS3SV Short Body Clip M6 Silver (20 pcs) PA-ER0020 M2 E-Clip (30 pcs)

PP-010320 Oil Mixed O-Ring for Dampers 30° AW-BW31RD Small M3 Beveled Washer Red (10 pcs) AW-BW32RD Large M3 Beveled Washer Red (10 pcs)

Spacers

AW-S050RD 3mm x 0.5t Collar Red (10 pcs) 3mm x 1.0t Collar Red (10 pcs) AW-S100RD AW-S150RD 3mm x 1.5t Collar Red (10 pcs) AW-S200RD 3mm x 2.0t Collar Red (10 pcs) AW-S250RD 3mm x 2.5t Collar Red (10 pcs) AW-M050RD Wide 3mm x 0.5t Collar Red (10 pcs) AW-M100RD Wide 3mm x 1.0t Collar Red (10 pcs) AW-M200RD Wide 3mm x 2.0t Collar Red (10 pcs)

PA-CM2506BK Countersunk Cap Screw M2.5 x 6 (8 pcs) PA-BM0306BK Button Head Screw M3 x 6 (10 pcs) PA-BM0308BK Button Head Screw M3 x 8 (10 pcs) PA-CM0306BK Countersunk Cap Screw M3 x 6 (10 pcs) PA-CM0308BK Countersunk Cap Screw M3 x 8 (10 pcs) PA-CM0310BK Countersunk Cap Screw M3 x 10 (10 pcs) PA-CM0314BK Countersunk Cap Screw M3 x 14 (8 pcs) PA-CM0316BK Countersunk Cap Screw M3 x 16 (8 pcs)

Nut PA-FN00M3

Flat Nut M3 (10 pcs) AW-I NF4RD M4 Al. Flange Nylon Lock Nut Red (5 pcs)

Set Screw

PA-SS0303BK Steel Set Screw M3 x 3 (10 pcs) PA-SS0306BK Steel Set Screw M3 x 6 (10 pcs) PA-SS0308BK Steel Set Screw M3 x 8 (10 pcs) PA-SS0310BK Steel Set Screw M3 x 10 (8 pcs) PA-SS0312BK Steel Set Screw M3 x 12 (8 pcs)

OPTIONAL PARTS

Chassis

PO-PCHC001 Lipo Rubber Chassis (2.0mm) PO-PCHS002 Lipo Foam Chassis (2.5mm) PO-PCHC003 Top Deck Medium 2.0mm PO-PCHC004 Camber Link Plate 1.25mm Offset (2 pcs) PO-PCHC005 Rubber Wing Medium Set PO-PCHC006 Foam Wing Extra Hard Set PO-PBW101 LiPo Brace Weight Set (90g) PO-PBW102 LiPo Brace Weight Set (40g) PO-PCW030 Center Lipo Weight (30g)

PO-PLW005 Cylindrical LiPo Weight (5g)

Drive Train

PO-CDB312BK 3mm Ceramic Diff, Ball (12 pcs) PO-CDB408BK 1.6mm Ceramic Diff. Ball (8 pcs) PO-PDT001 Low Friction Drive Belt Rear PO-PDT002 Low Friction Drive Belt Front

Drive Shaft

PO-SDT025RD Al. Universal Bone 43mm (Red) (1 pc) PO-DT1006RD 6.2mm Wheel Adapter Set (Red) (4 sets)

Ball Bearing

PO-CBST04 Ceramic Ball Bearing Set (14 pcs) PO-CB1005 Ceramic Ball Bearing 5 x 10 x 4mm PO-CB1510 Ceramic Ball Bearing 10 x 15 x 4mm

Shock Absorber

PP-010321 Oil Mixed O-Ring for Dampers 40° (10 pcs)

Stabilizer

TC-PSB010 1.0mm Stabilizer Bar (2 pcs) TC-PSB012 1.2mm Stabilizer Bar (2 pcs) TC-PSB014 1.4mm Stabilizer Bar (2 pcs) TC-PSB016 1.6mm Stabilizer Bar (2 pcs) TC-PSB018 1.8mm Stabilizer Bar (2 pcs)

Shock Spring

PS-TR15550 Gamma Spring 393gf/mm, 22.0lb/in (2 pcs) Gamma Spring 367gf/mm, 20.5lb/in (2 pcs) PS-TR15575 PS-TR15600 Gamma Spring 344gf/mm, 19.2lb/in (2 pcs) PS-TR15625 Gamma Spring 324gf/mm, 18.1lb/in (2 pcs) PS-TR15650 Gamma Spring 306gf/mm, 17.1lb/in (2 pcs) Gamma Spring 289gf/mm, 16.2lb/in (2 pcs) PS-TR15675 PS-TF17625 Alpha Spring 626gf/mm, 35.0lb/in (2 pcs) PS-TF17650 Alpha Spring 591gf/mm, 33.1lb/in (2 pcs) PS-TF17675 Alpha Spring 560gf/mm, 31.3lb/in (2 pcs) PS-TF17700 Alpha Spring 532gf/mm, 29.8lb/in (2 pcs) PS-TF17725 Alpha Spring 507gf/mm, 28.3lb/in (2 pcs) PS-TF14575 Beta Spring 347gf/mm, 19.4lb/in (2 pcs) PS-TF14600 Beta Spring 325gf/mm, 18.2lb/in (2 pcs) PS-TF14625 Beta Spring 306gf/mm, 17.1lb/in (2 pcs) PS-TF14650 Beta Spring 294gf/mm, 16.2lb/in (2 pcs) PS-TF14675 Beta Spring 274gf/mm, 15.3lb/in (2 pcs)

Note:

1. Gamma Spring Series is designed for rubber asphalt racing

2. Alpha and Beta Spring Series are designed for foam carpet racing (Alpha for front and Beta for rear).

Spur Gear

SG-K64088 Spur Gear 64P 88T SG-K64096 Spur Gear 64P 96T SG-K64104 Spur Gear 64P 104T SG-K64108 Spur Gear 64P 108T SG-K64112 Spur Gear 64P 112T SG-K64116 Spur Gear 64P 116T

Linkage

PO-PSU004RD 3mm x 30mm Al. Tie Rod Red (2 pcs)

Accessories

PA-BT1005RD Belt Tensioner Set (Red)

Nut

AW-FN03RD Al. M3 Flat Nut Red (5 pcs)

AW-SNF4RD M4 Al. Self-Locking Wheel Nut Red (4 pcs)

Set Screw

PA-SS0303 M3 x 3 Stainless Steel Set Screw (10 pcs) PA-SS0306 M3 x 6 Stainless Steel Set Screw (10 pcs) PA-SS0308 M3 x 8 Stainless Steel Set Screw (10 pcs) PA-SS0310 M3 x 10 Stainless Steel Set Screw (10 pcs) PA-SS0312 M3 x 12 Stainless Steel Set Screw (10 pcs)

Screws

PO-SSSST1 Stainless Steel Screw Set PO-TISST1 Titanium Screw Set

IMPORTANT: Stainless steel and titanium screws cannot be used for the installation of suspension mounts of Photon. Use original screws for these locations.



