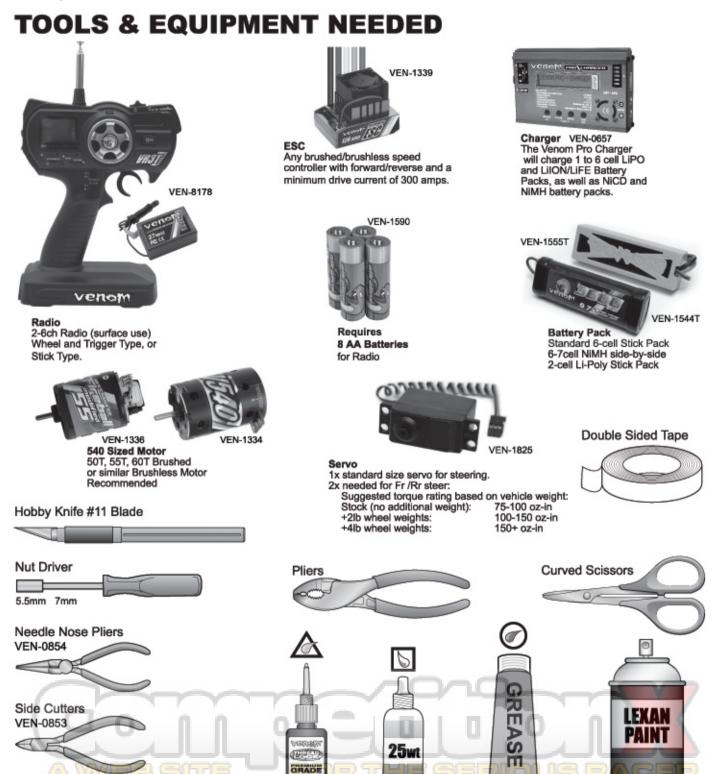


1:10 Scale R/C Rock Crawler

Thank you for purchasing the Venom Creeper™. This revolutionary Rock Crawler was designed with die hard crawlers, enthusiasts and beginning R/C Hobbyists in mind. Hardcore Crawlers will love the revolutionary design features of the chassis. Enthusiasts will enjoy it's scale realism, and beginning and novice hobbyists will enjoy how easy the Creeper™ is to drive. We hope you have as much fun with your Creeper as we did creating it. Not only did you purchase the best R/C Rock Crawler but you have also joined the Venom Team and it's world class product line and customer service.



Shock Oil

25wt

(Included)

Heavy Duty Grease

(Included)

Paint for

Polycarbonate Plastic.

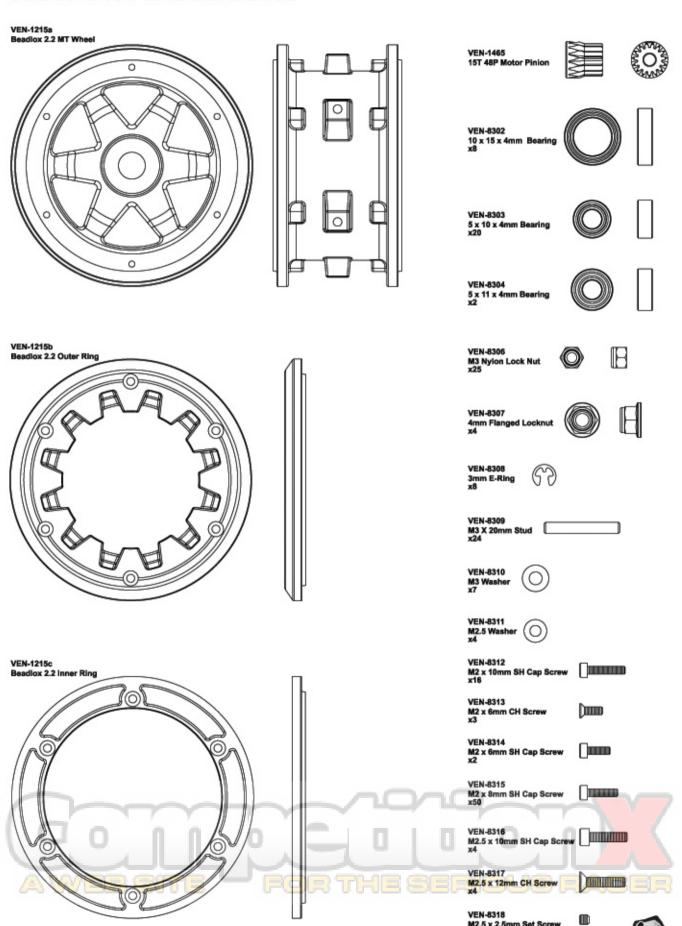
Thread Lock

VEN-0865

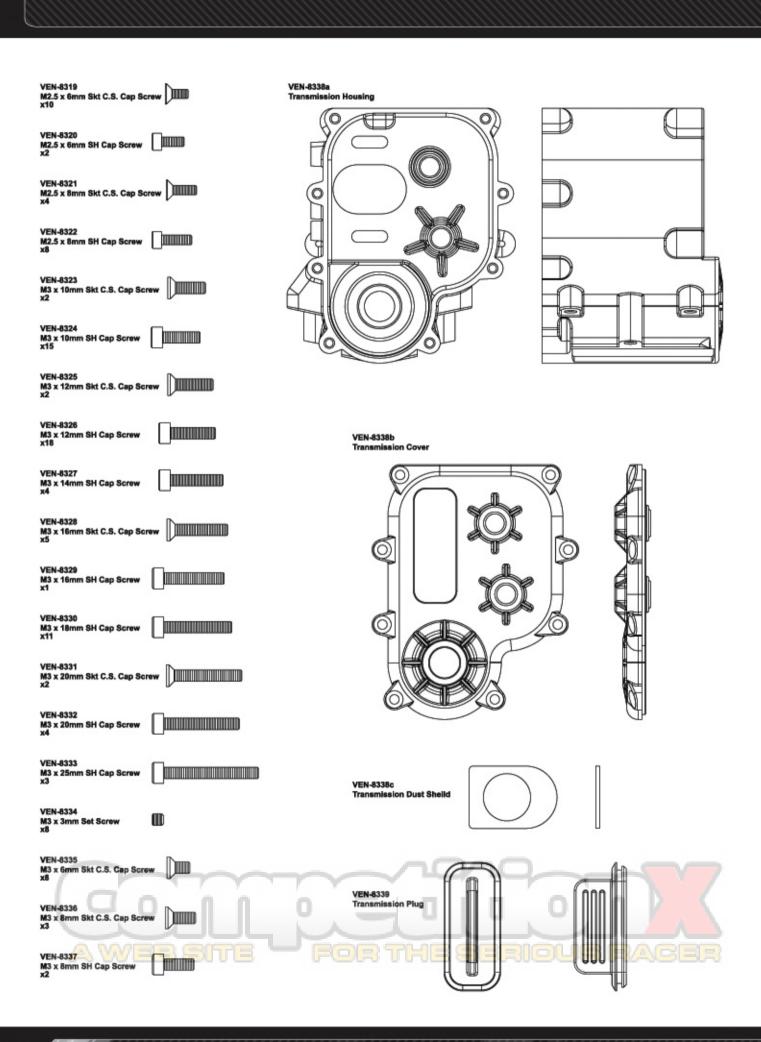
Hex Driver

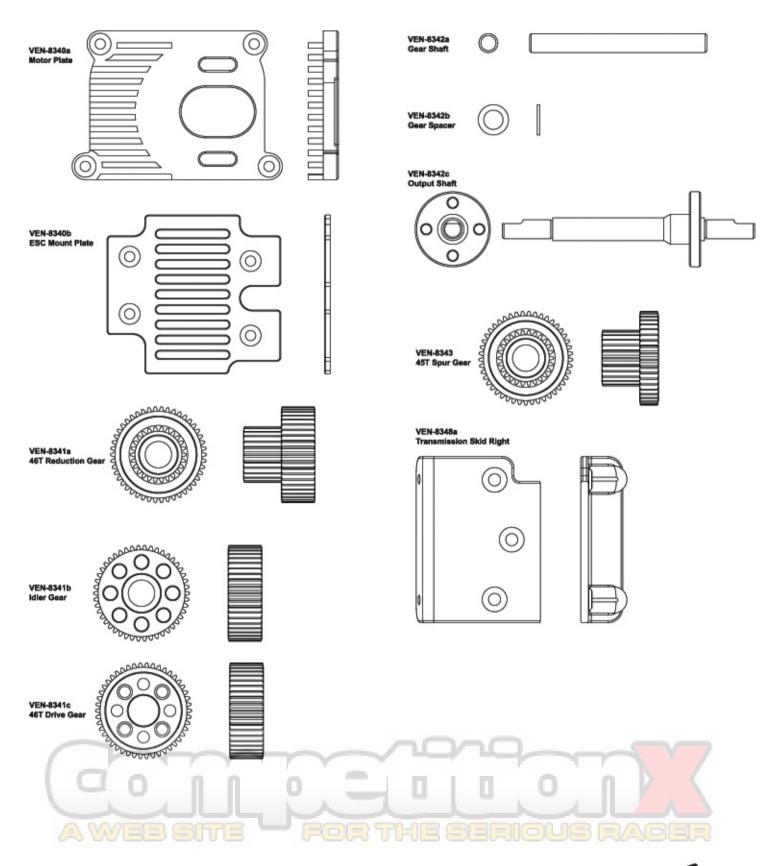
0.05in 1.5mm 2.0mm 2.5mm

#### **One-to-One Parts Reference**

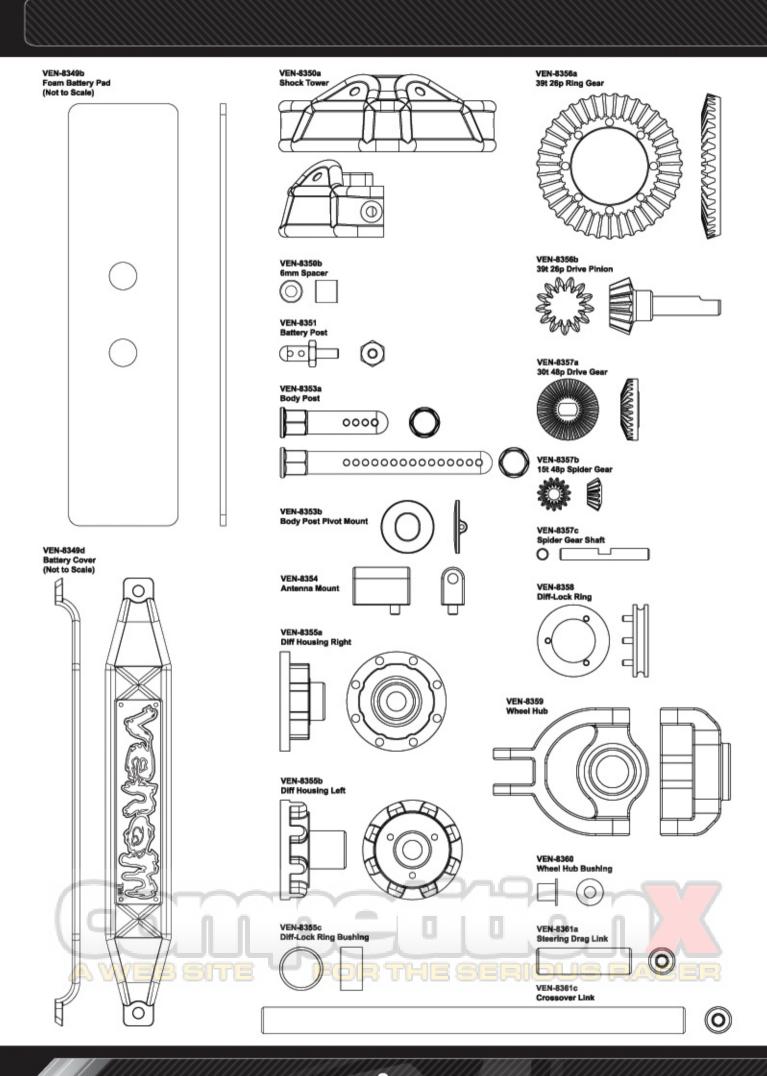


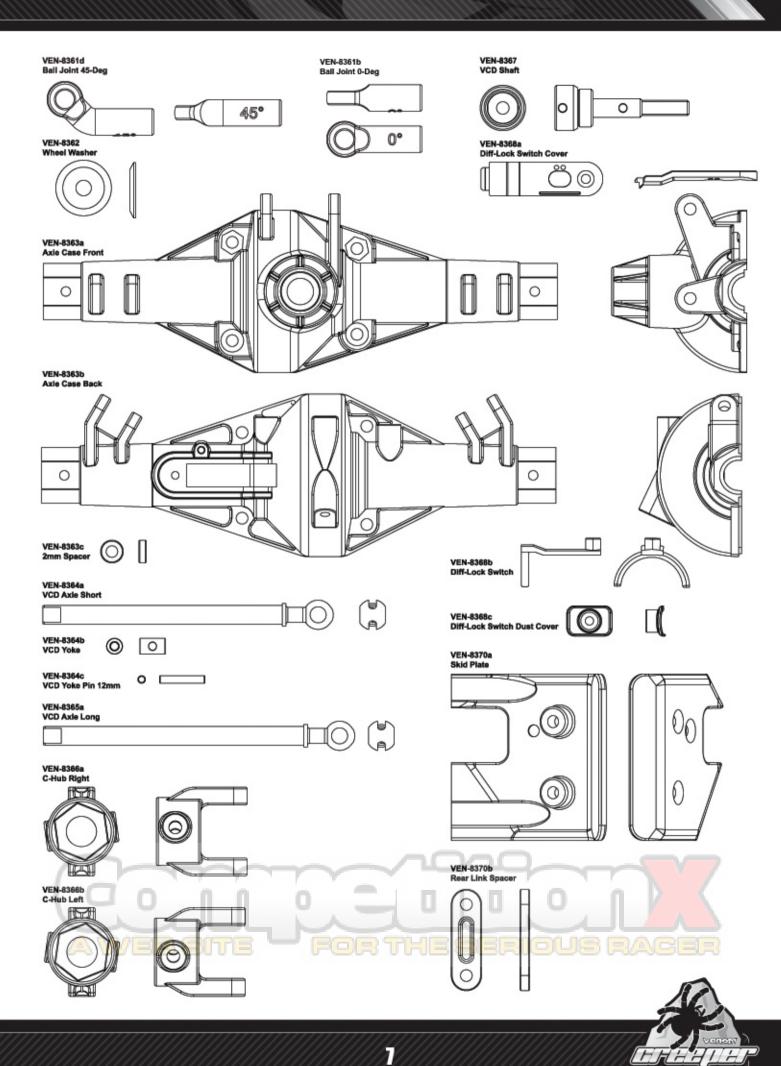
M2.5 x 2.5mm Set Screw x10

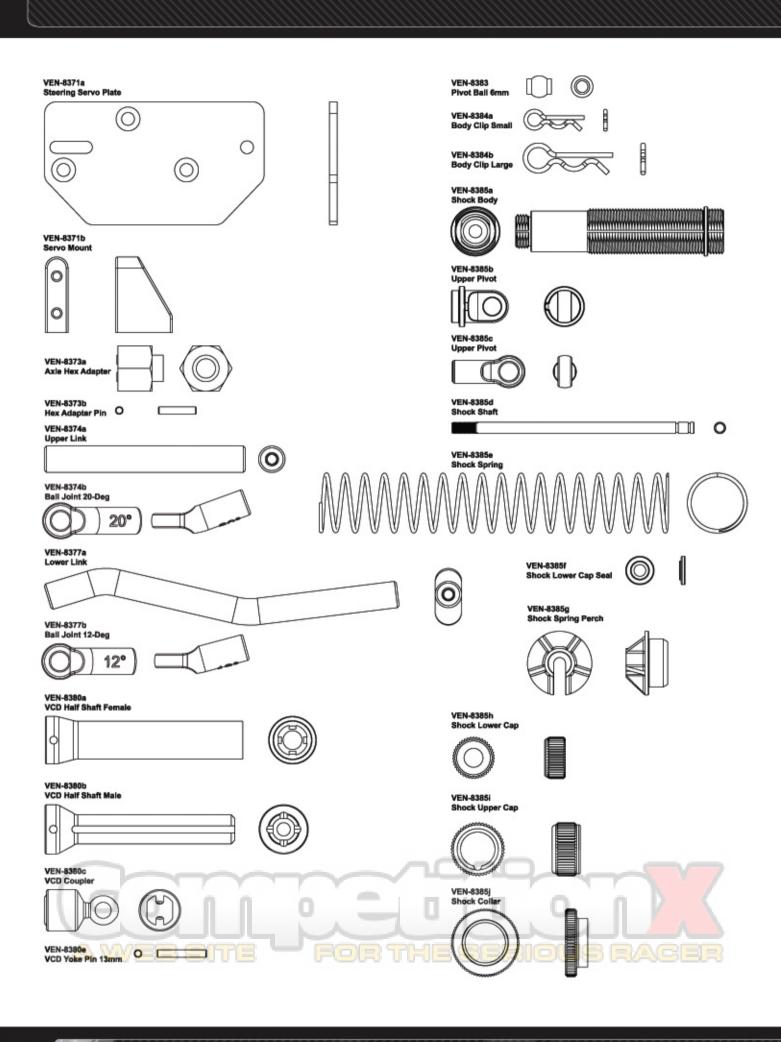


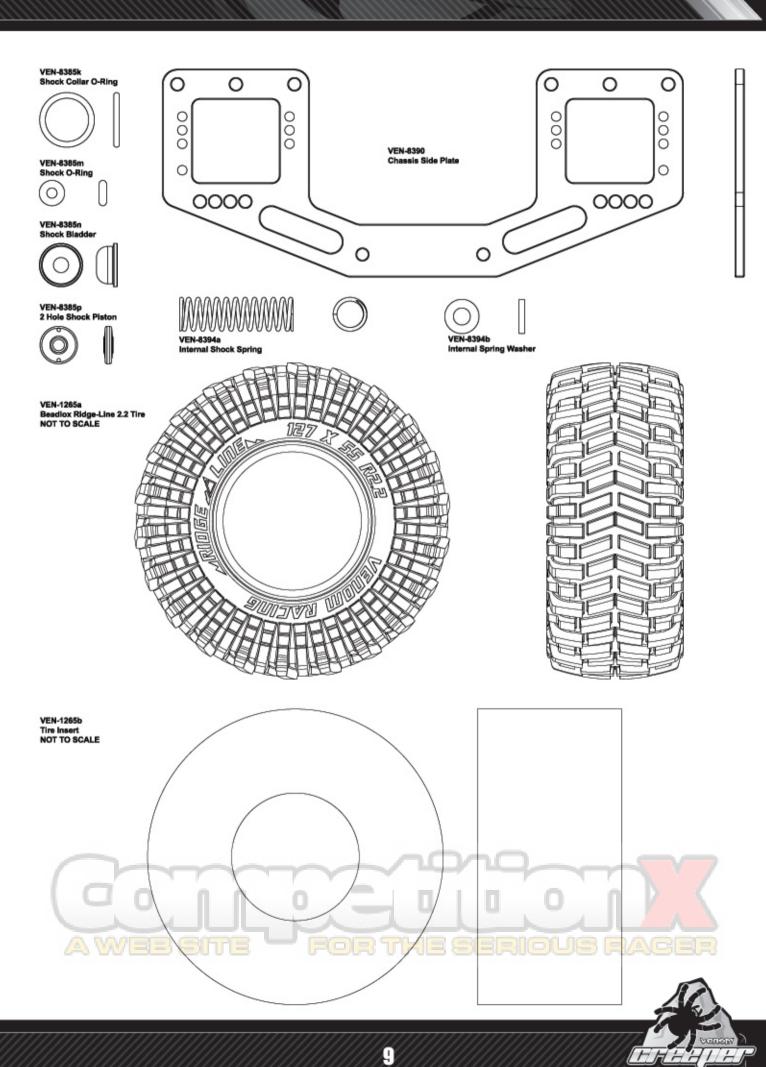












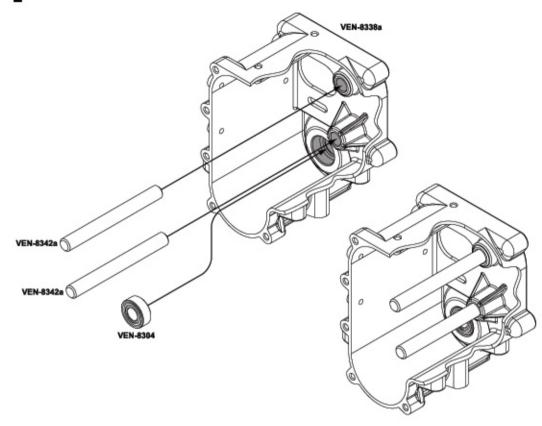
# **OPEN BAG**



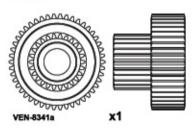
VEN-8342a

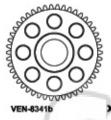
x2

VEN-8344, 8845, 8846 Spur Gears 46T/ 47T/ 48T

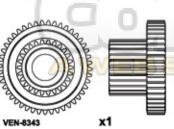


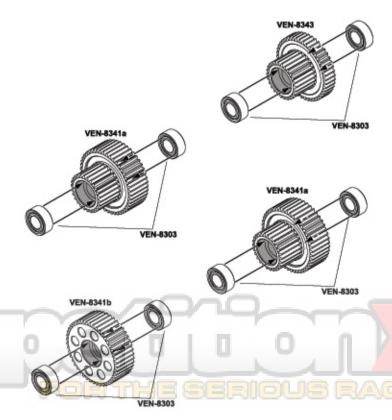


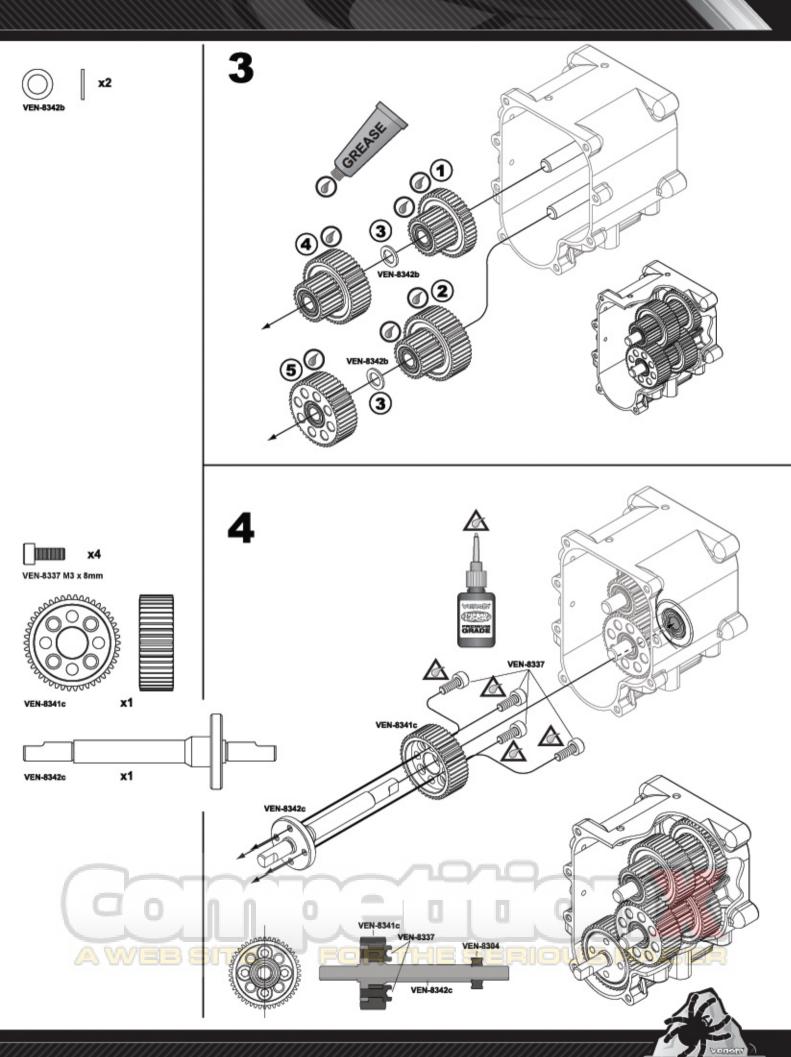






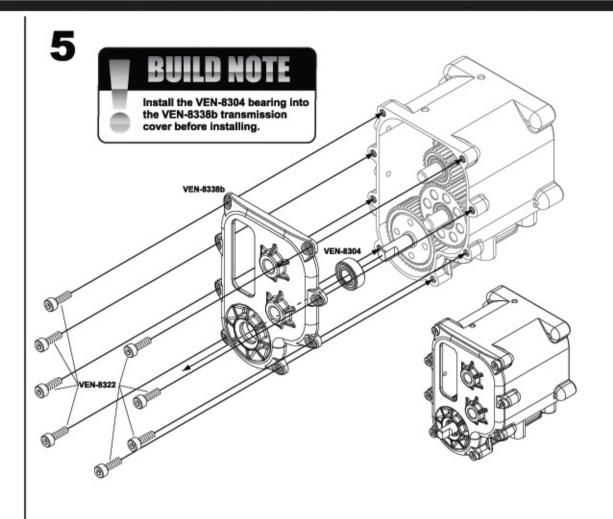






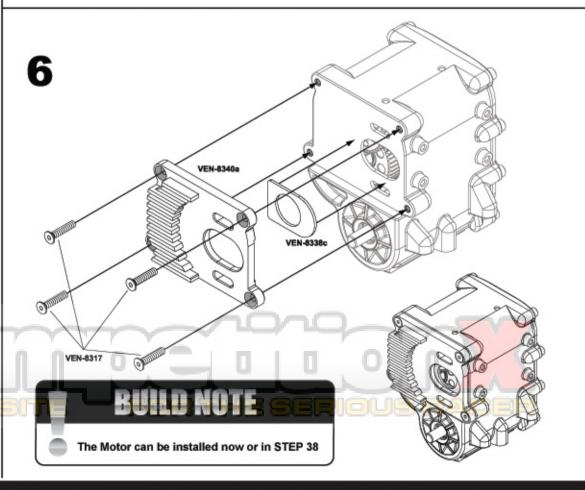


VEN-8332 M2.5 x 8mm

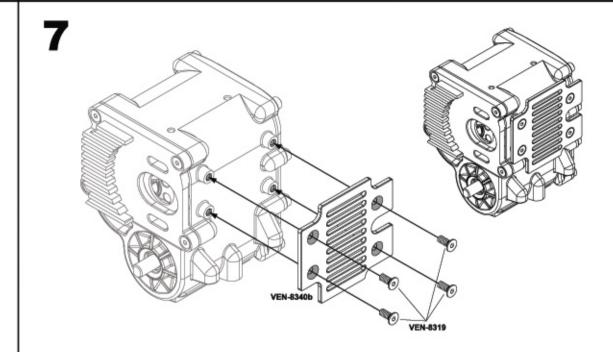








x4 VEN-8319 M2.5 x 6mm



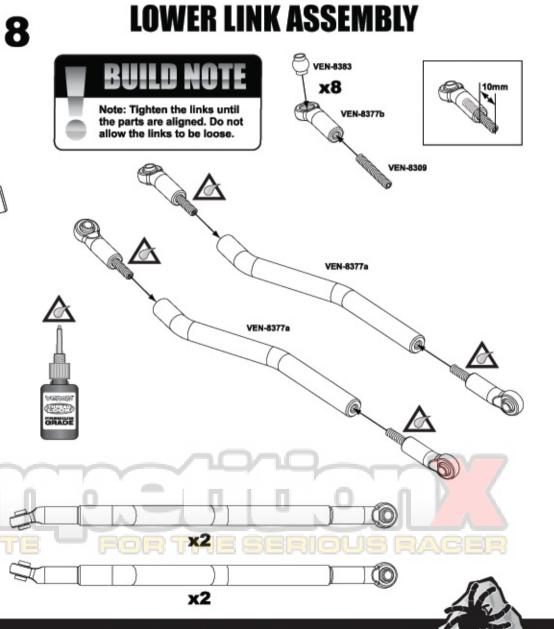
# OPEN BAG

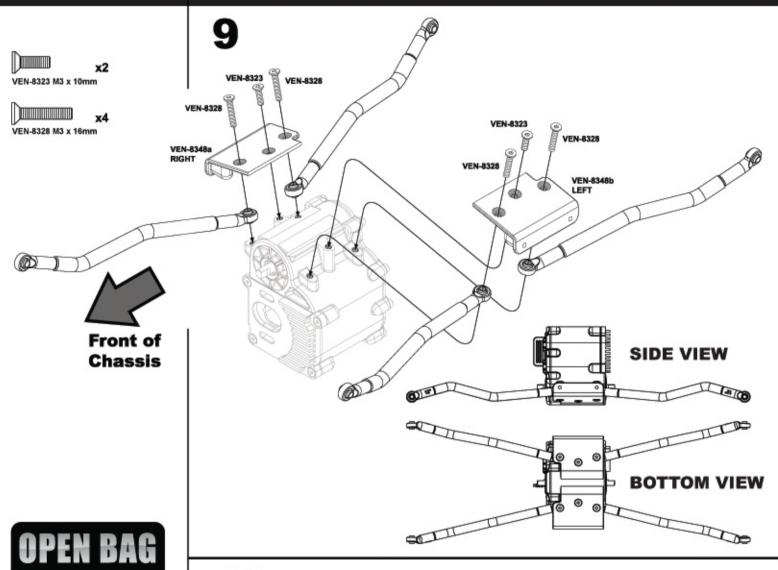
VEN\_8309 3 x 20mm

12°

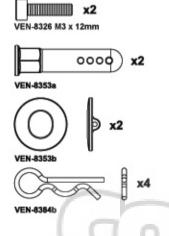
EN-8377b X8

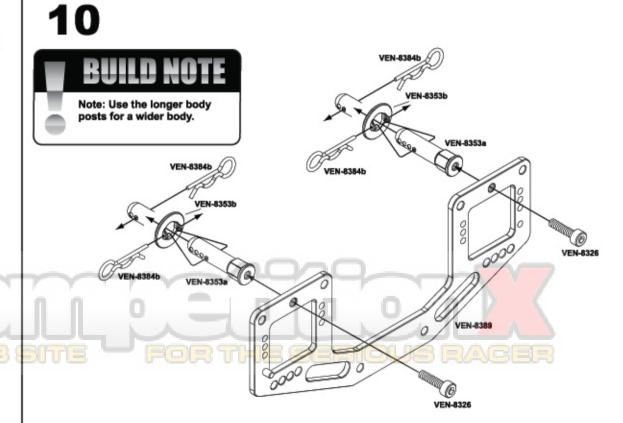
( x8

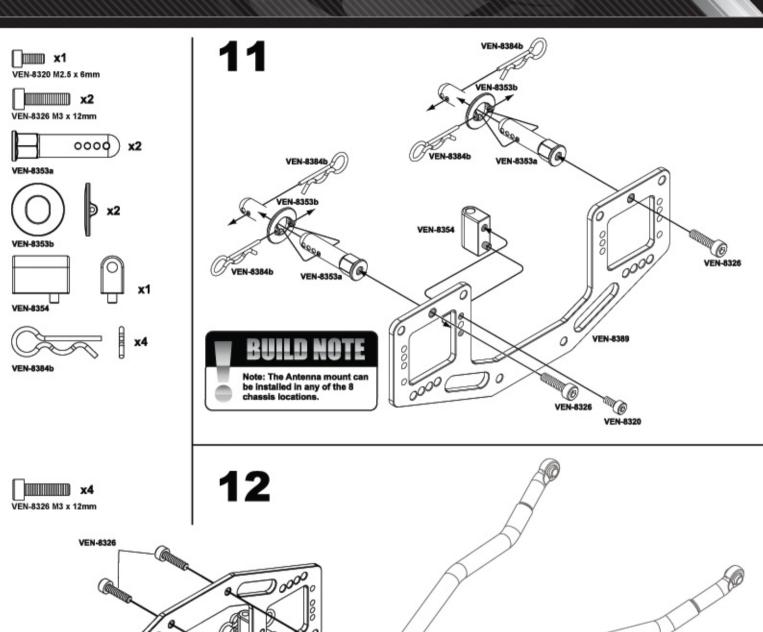


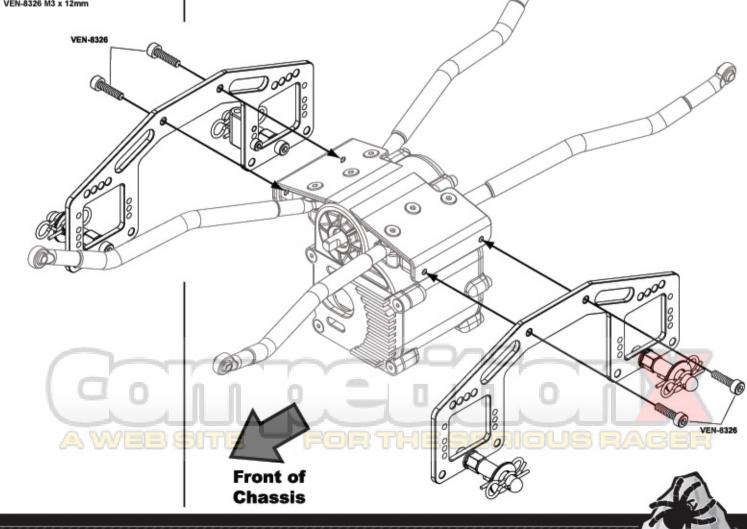


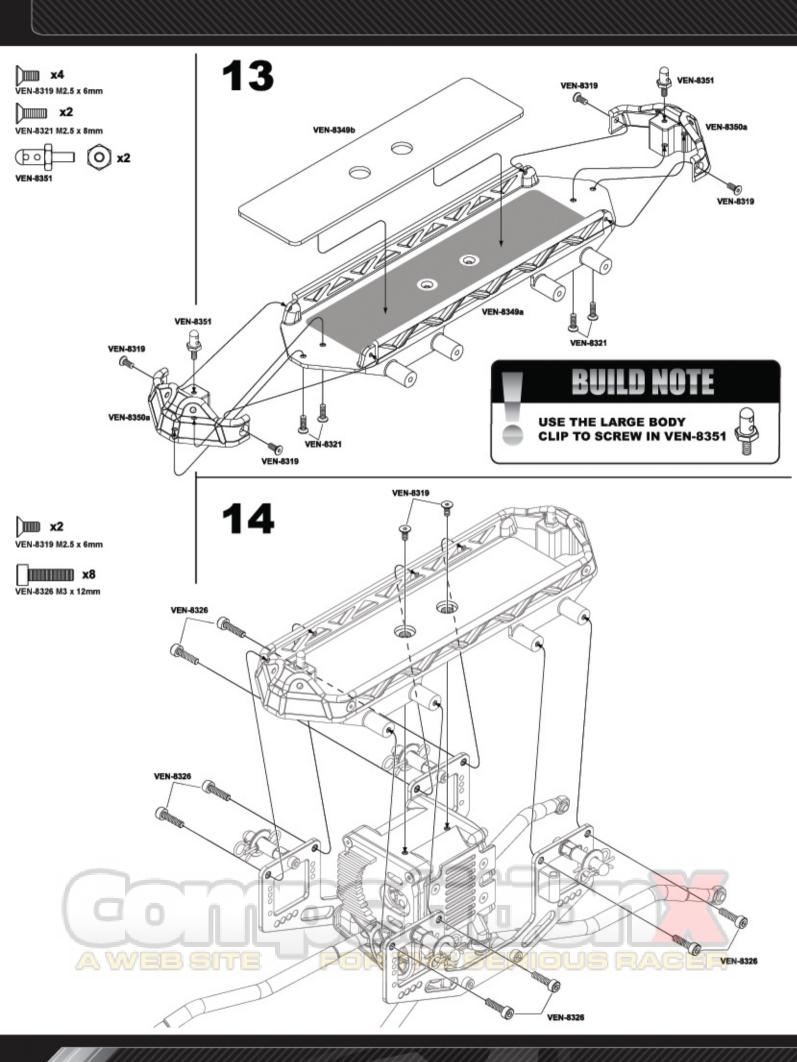


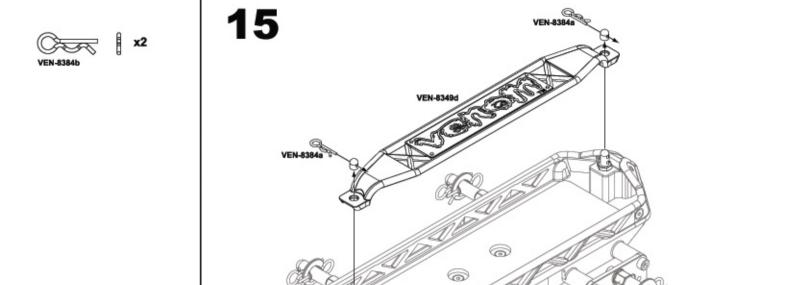




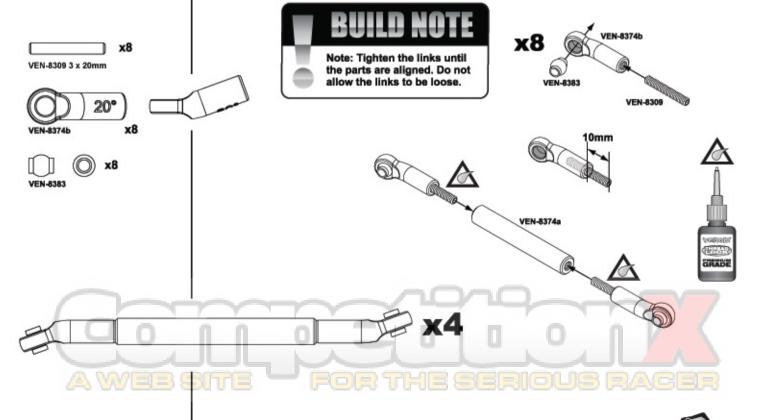


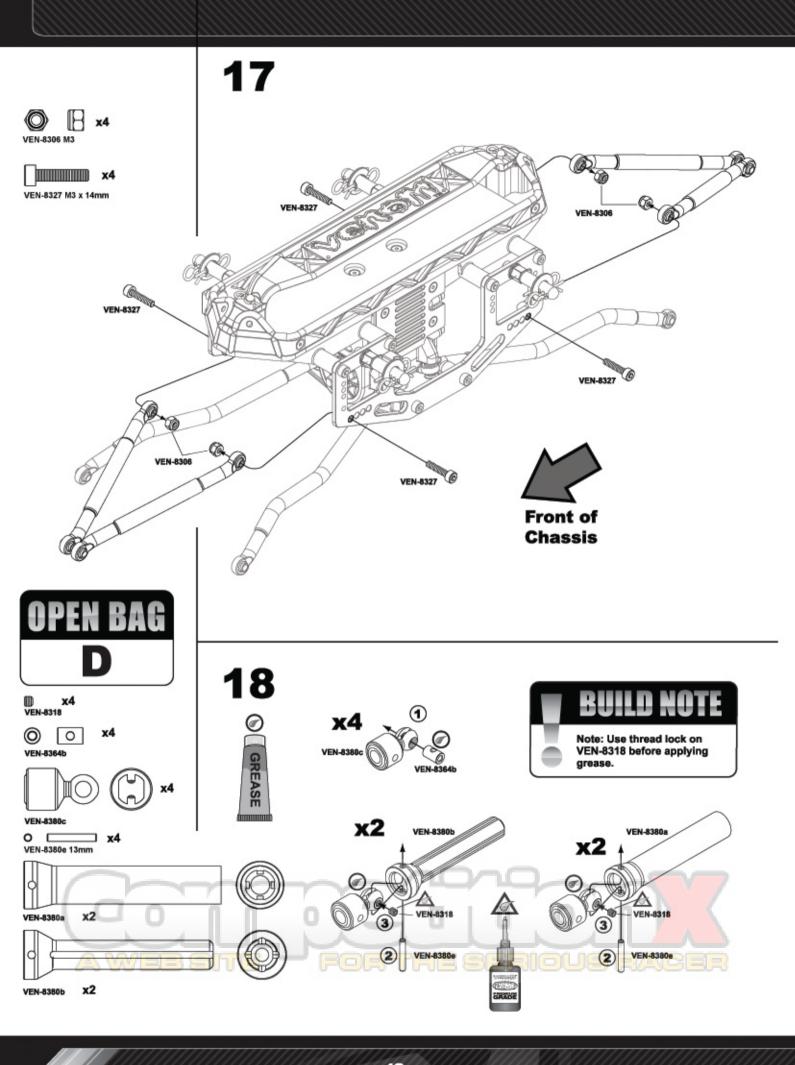


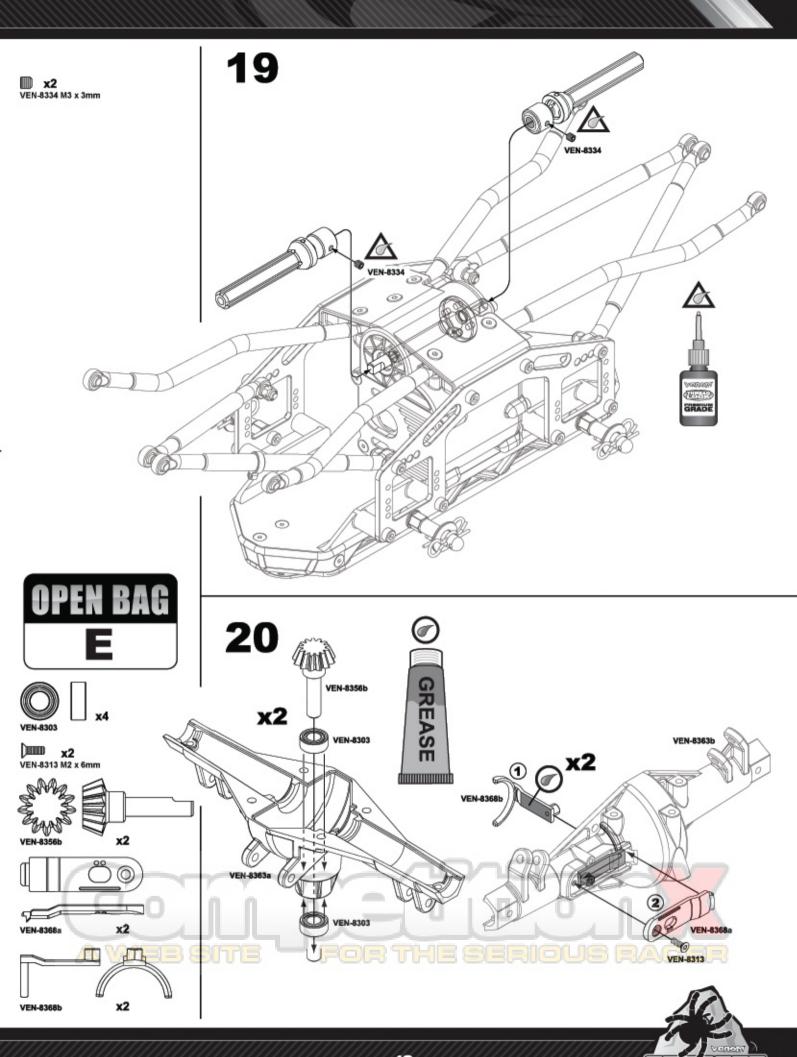


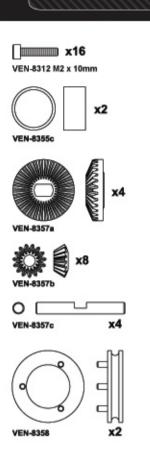


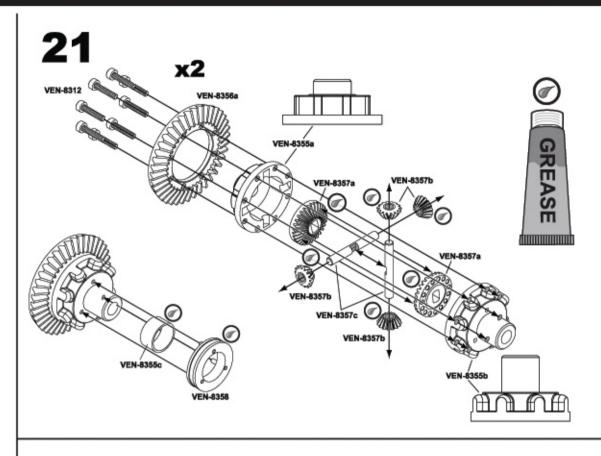
# 16 UPPER LINK ASSEMBLY

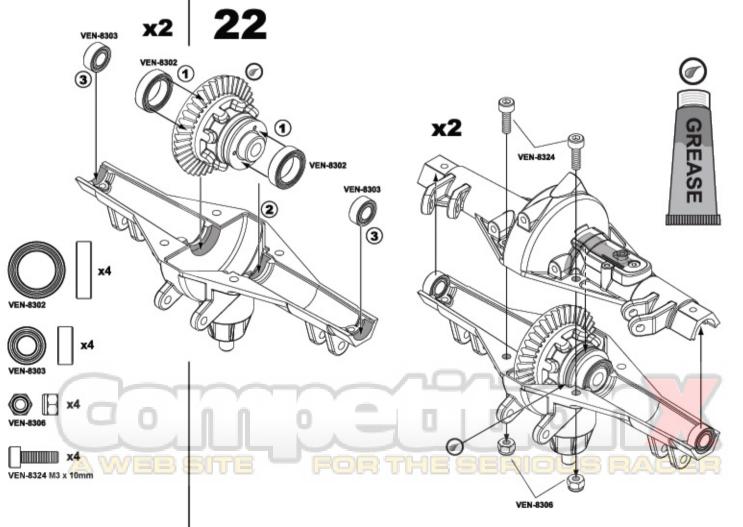


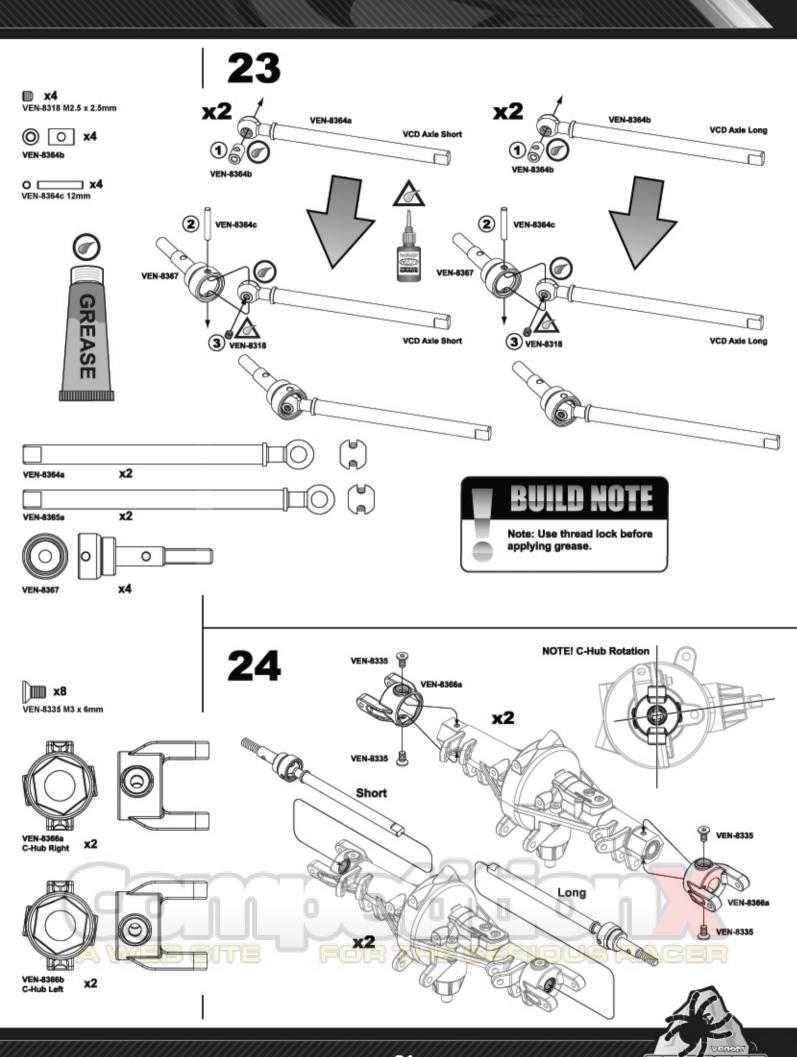


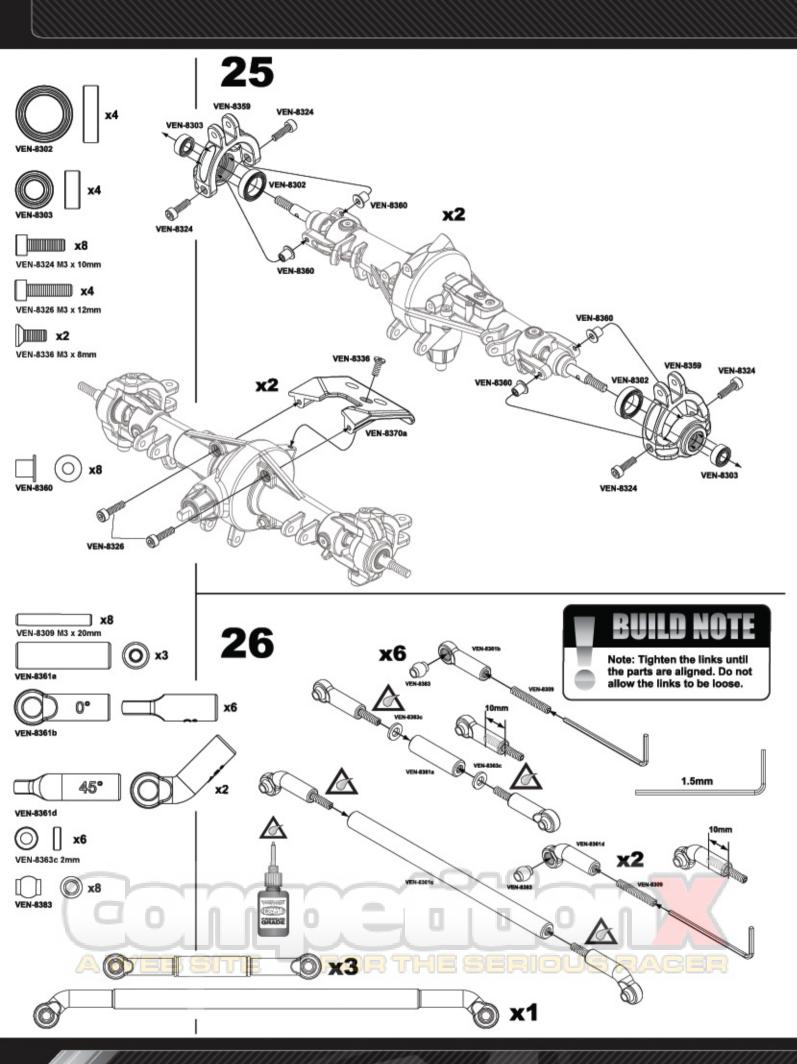


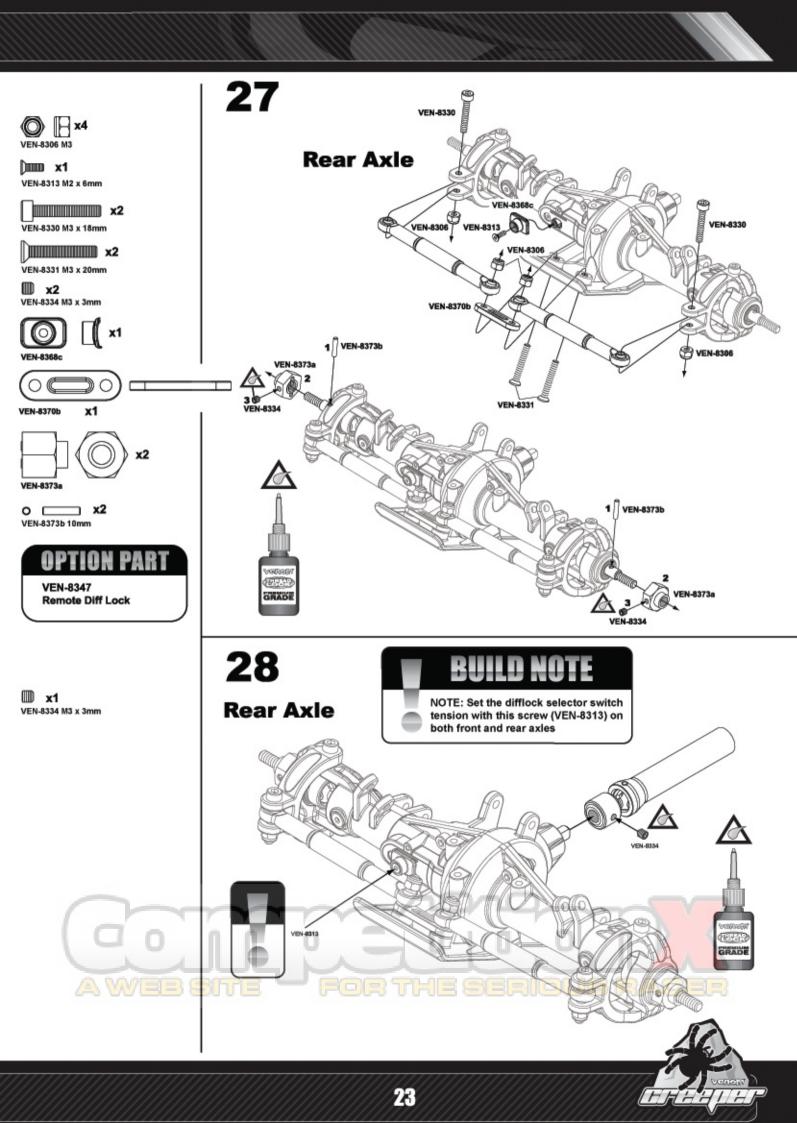


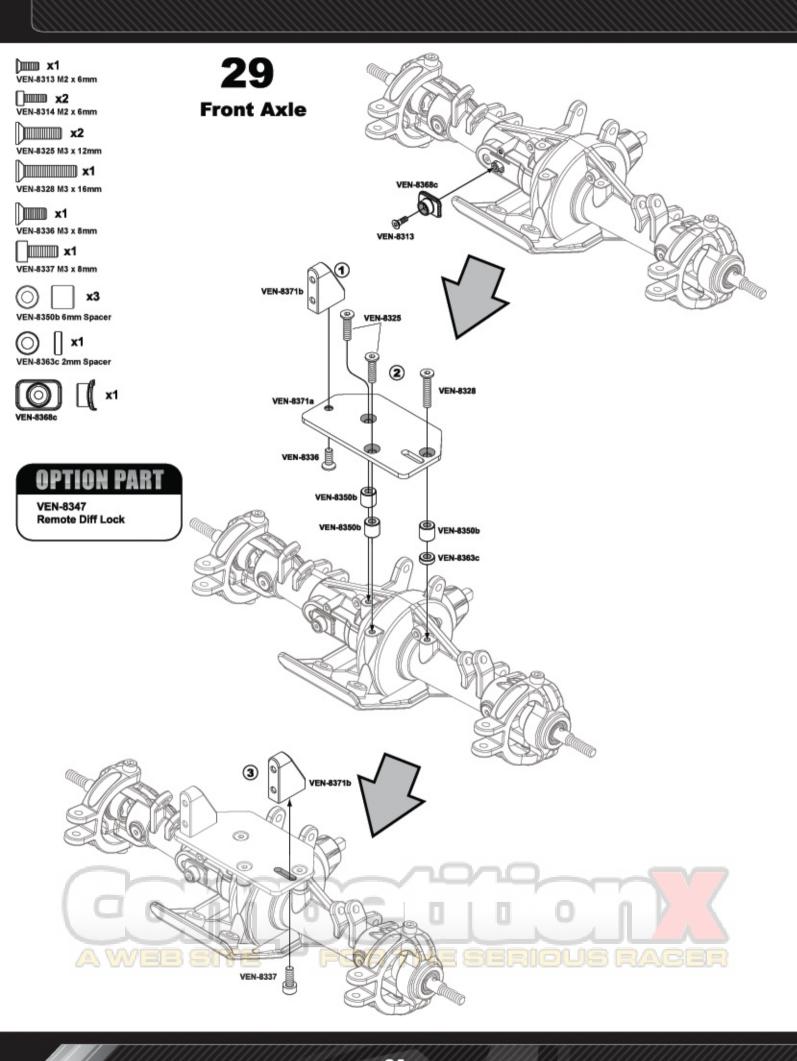


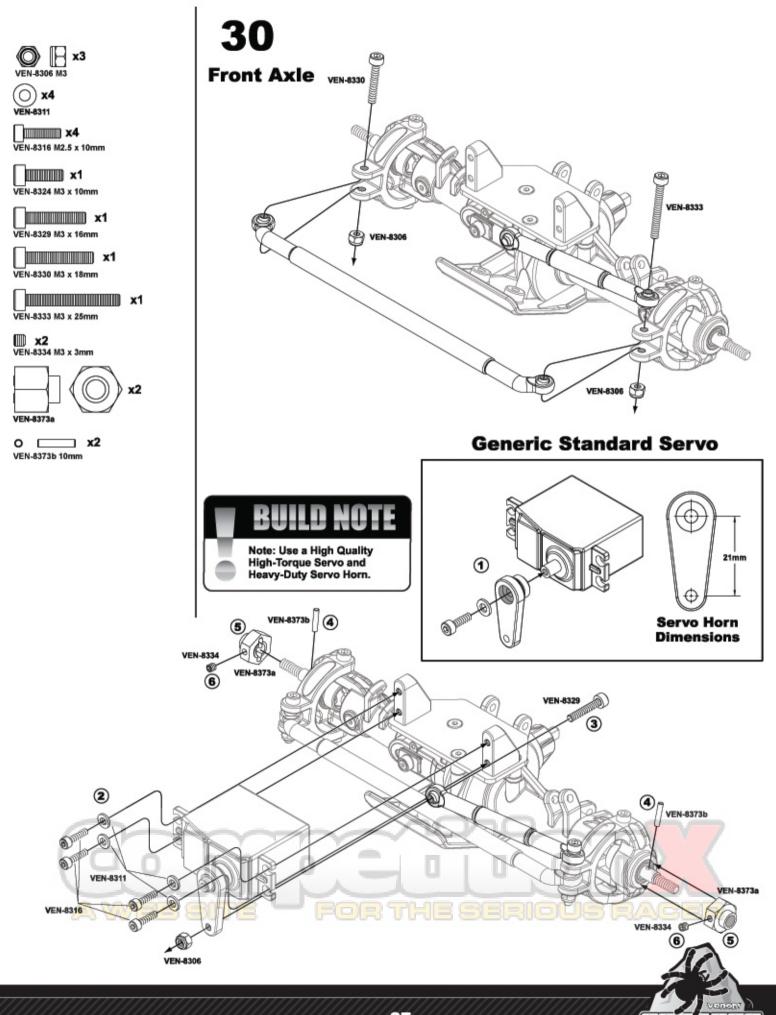








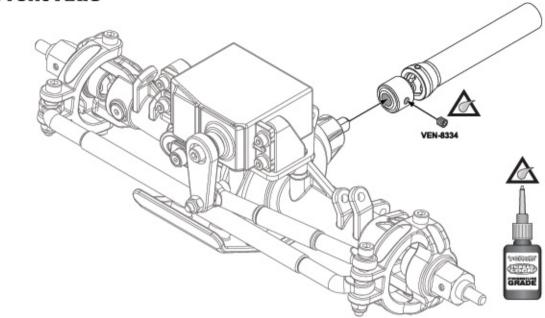


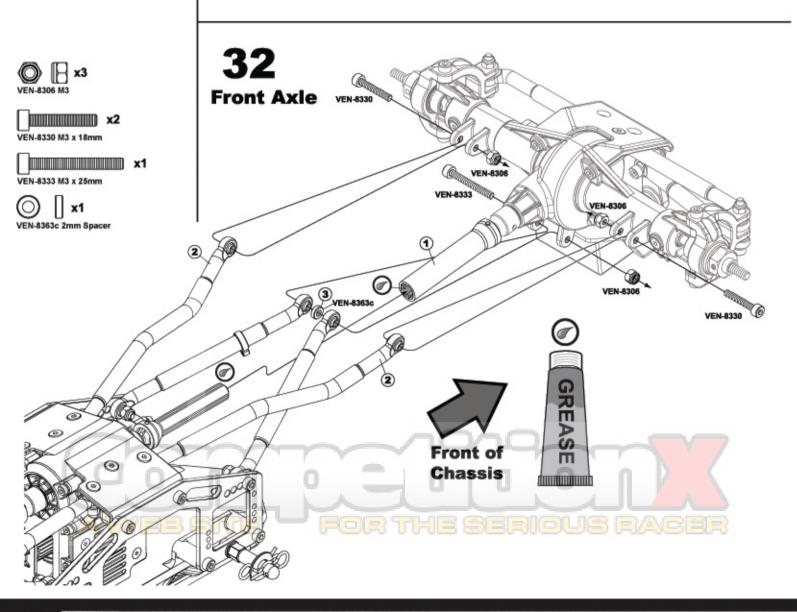


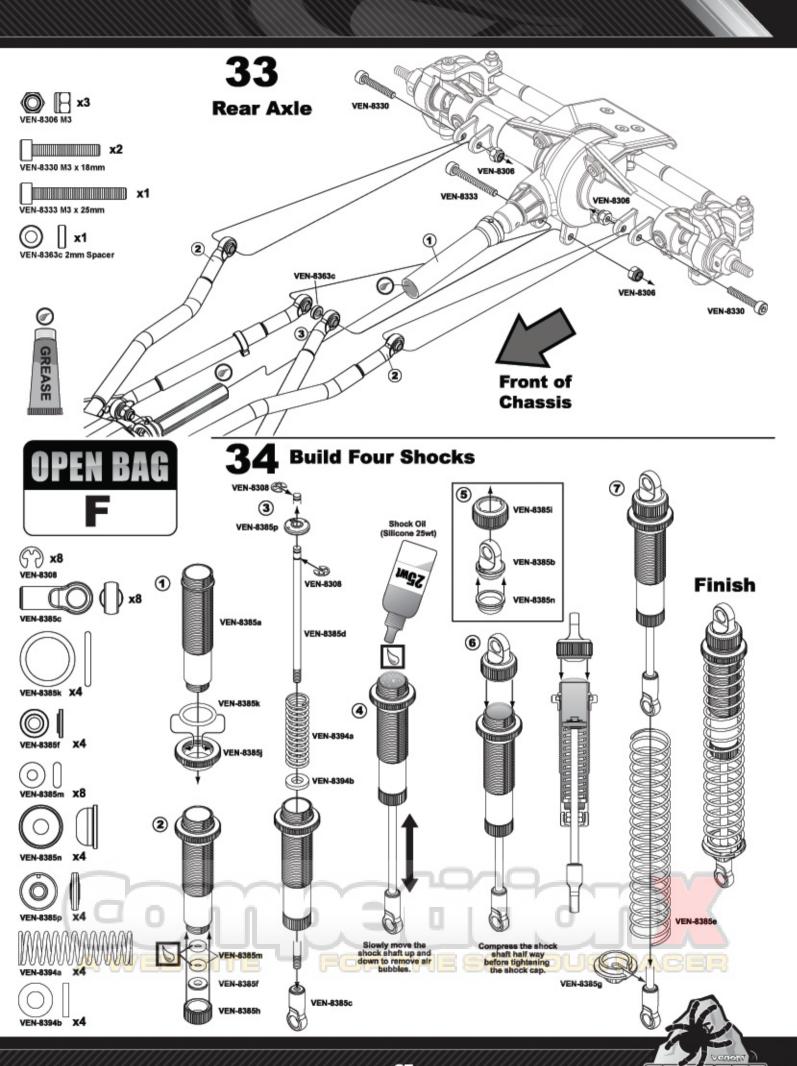
#### **X1** VEN-8334 M3 x 3mm

## 31

#### **Front Axle**









VEN-8330 M3 x 18mm

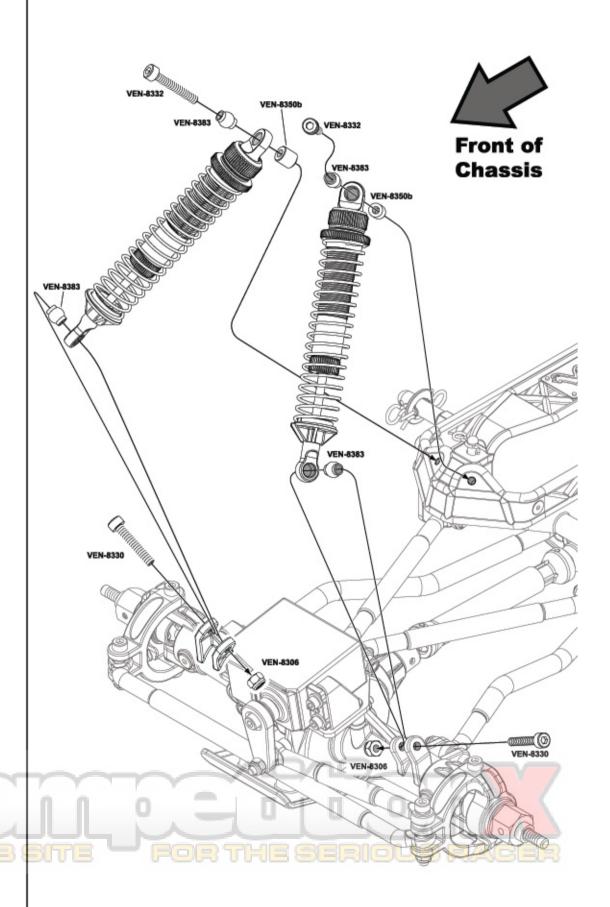
x2

VEN-8332 M3 x 20mm

VEN-8350b 6mm Spacer

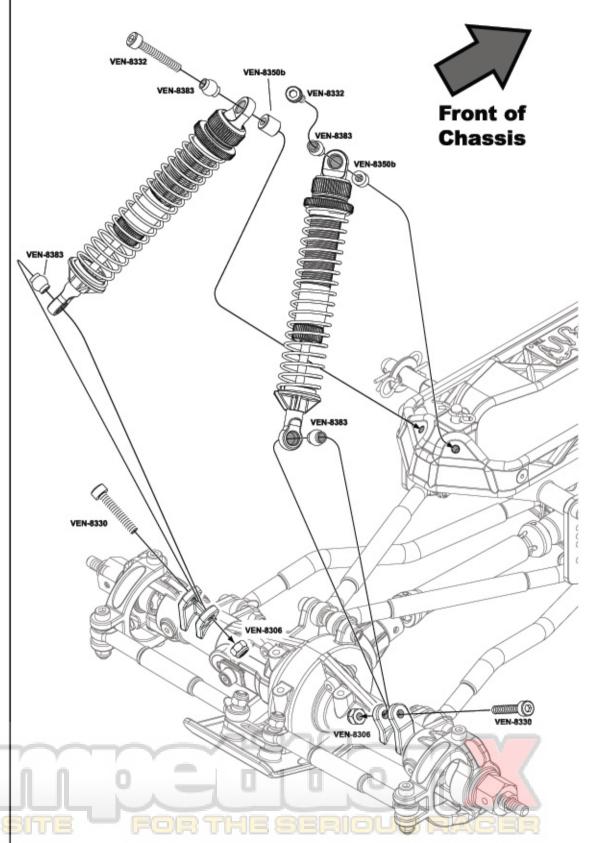
(C) x4

**35** 

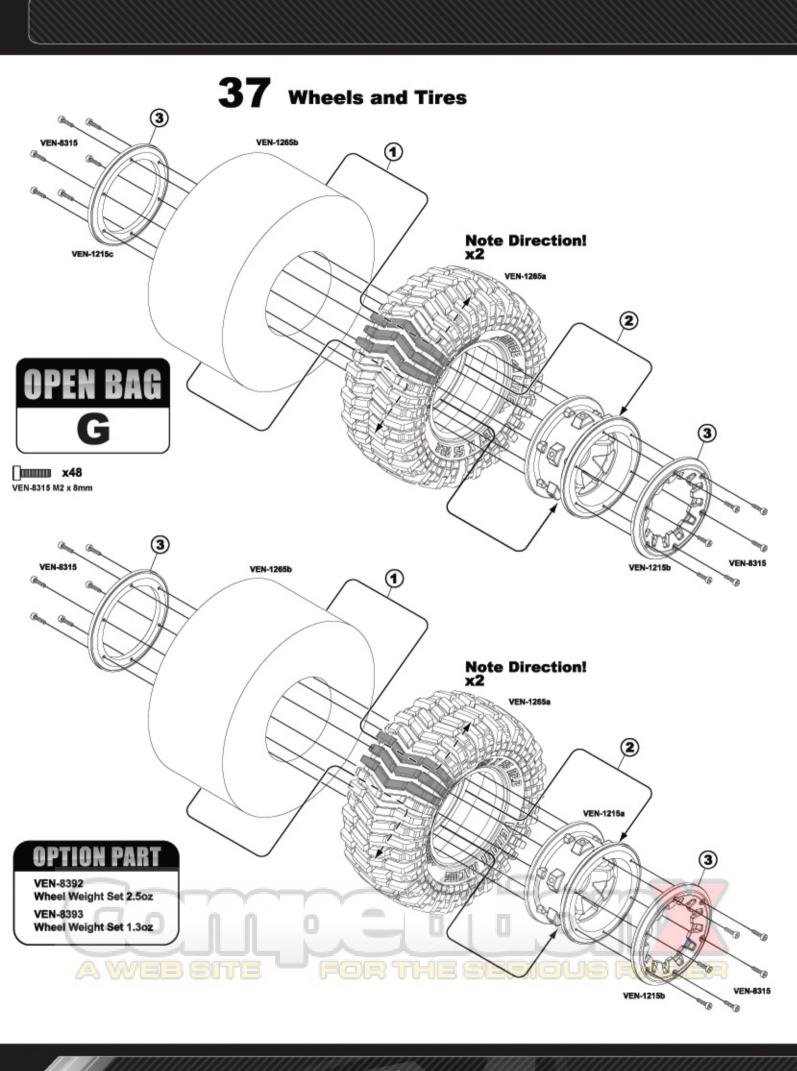


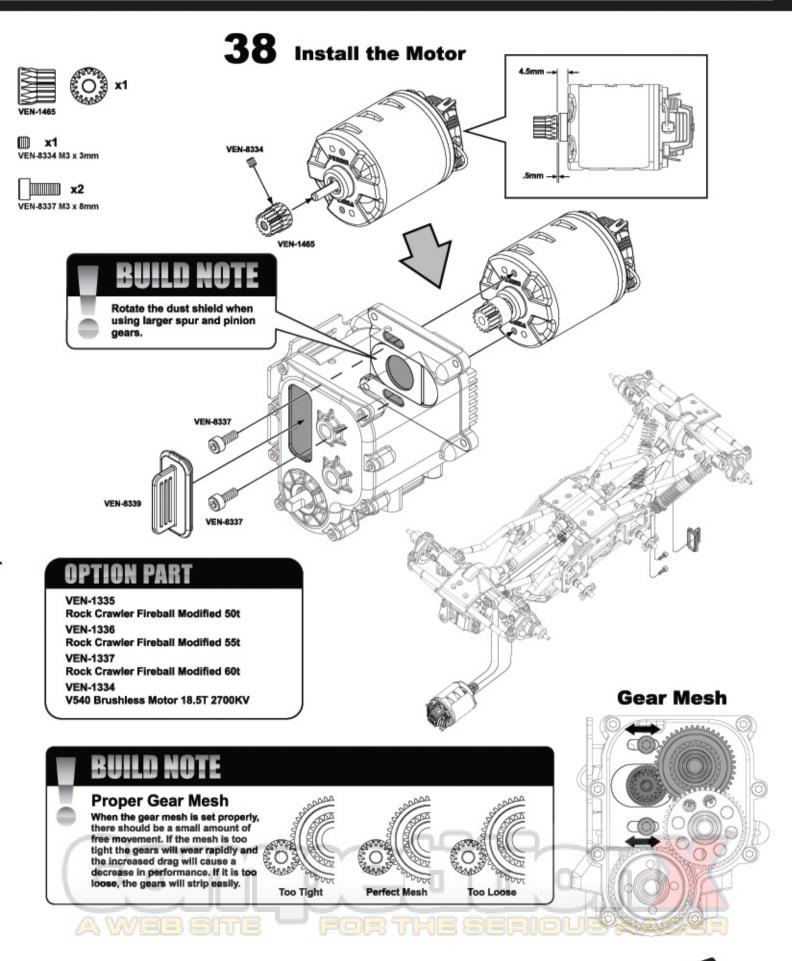
# X2 VEN-8330 M3 x 18mm X2 VEN-8332 M3 x 20mm X2 VEN-8330 M3 x 20mm X2 VEN-8350b 6mm Spacer

# Rear Shock Assembly



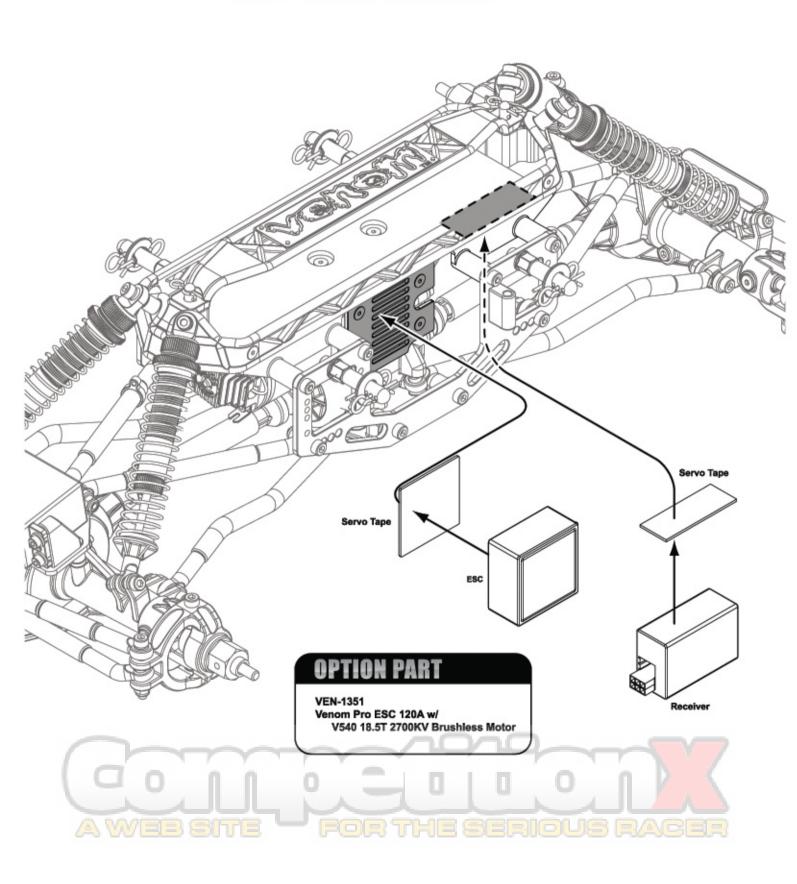




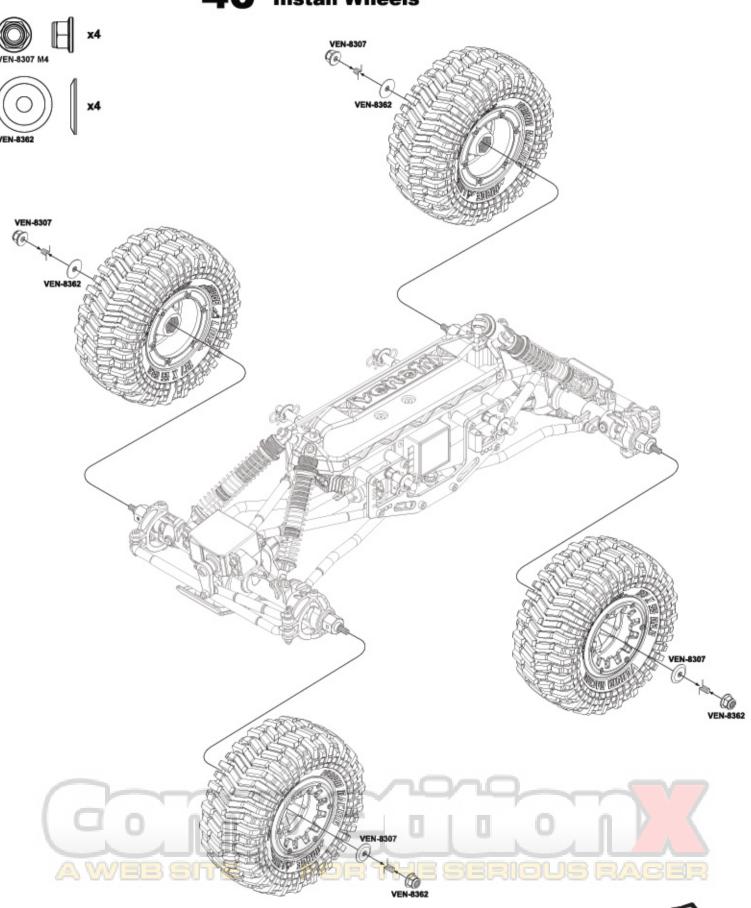




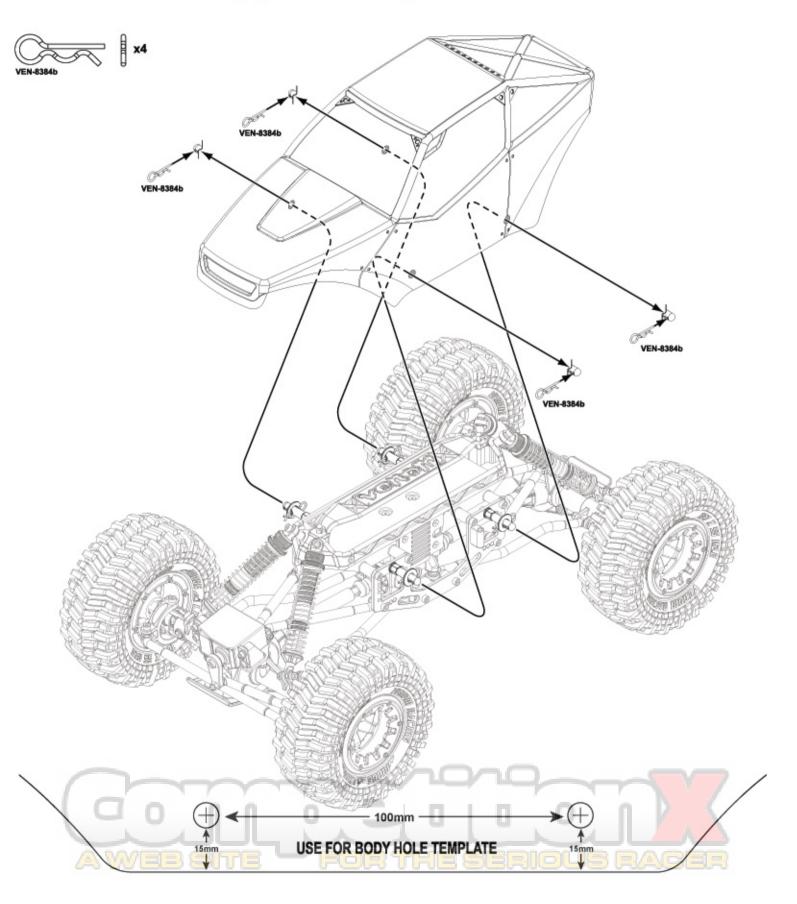
## 39 Install Electronics



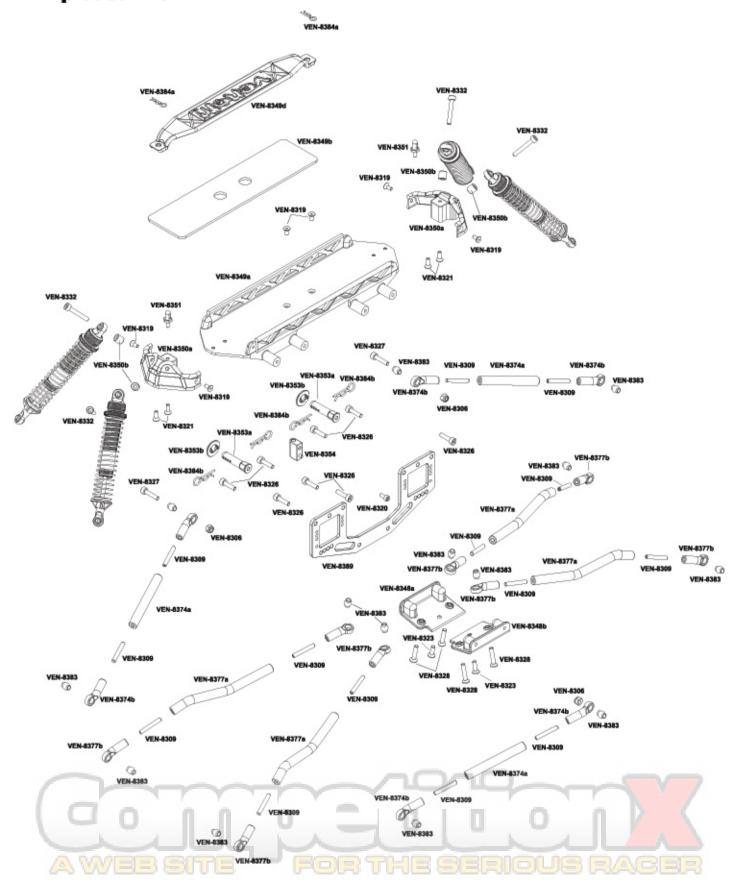
## Install Wheels



# 41 Install Body

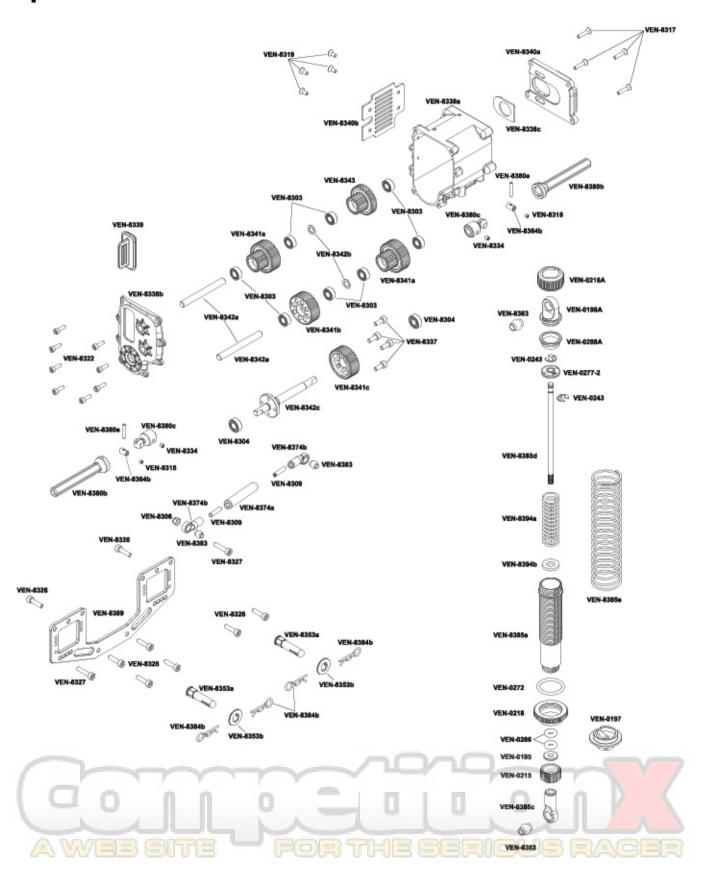


#### **Exploded View**



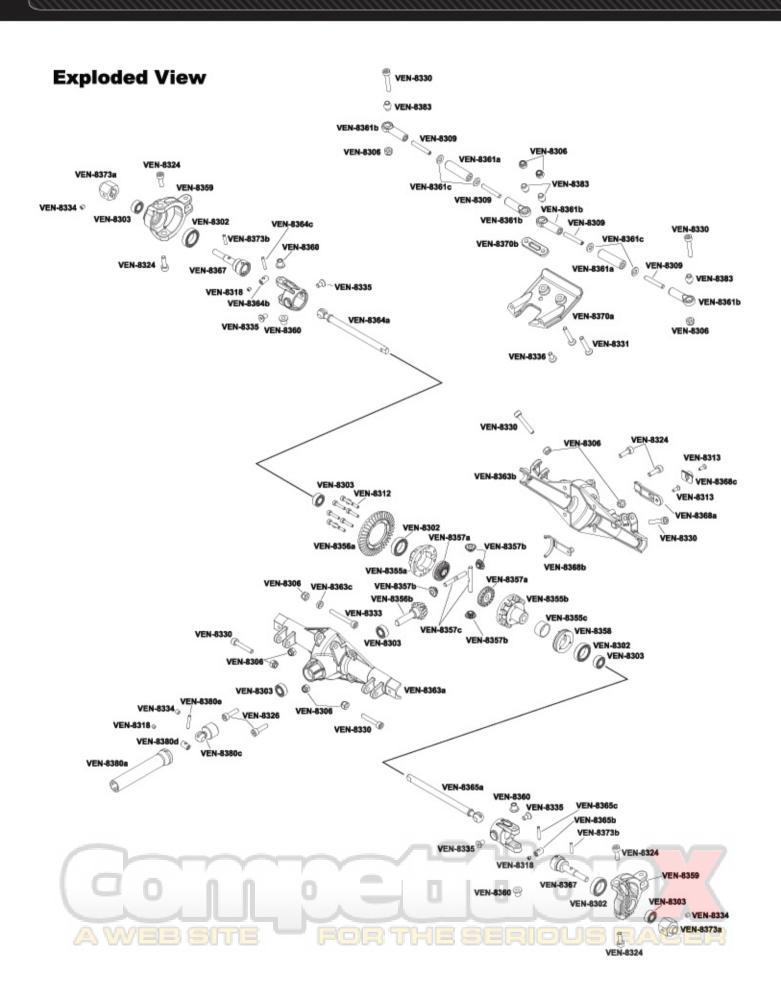


#### **Exploded View**



#### **Exploded View**





#### VENOM CREEPER TUNING GUIDE

#### **Shock Tuning**

The Creeper Chassis has long travel shocks. The shocks can be tuned to allow the Creeper to twist more or reduce twist and even change the ride height. Here are some basic tuning selections you can try with the shocks.

#### Shock Oil

Heavier oil allows the axles move from side to side slower when climbing.

Lighter oil allows the axles to move faster but can also make the chassis bounce from side to side.

#### **Anti-roll Springs**

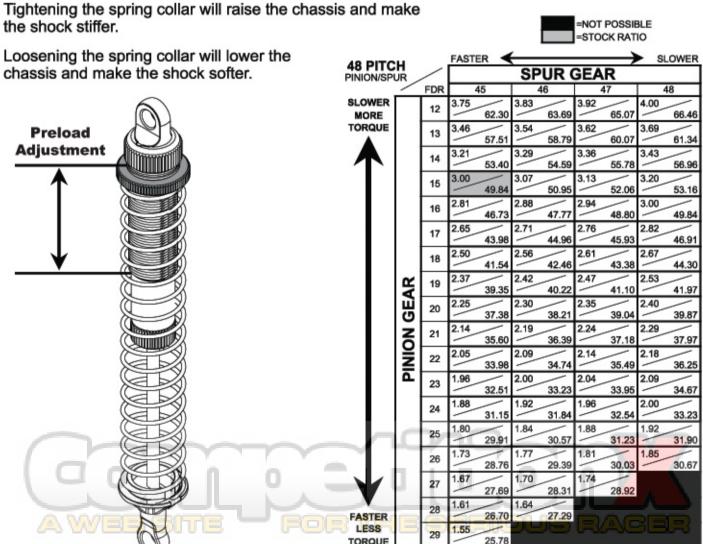
The internal Anti-roll Spring will help reduce the torque effect of the motor. This will help the Creeper stay more stable for climbing obstacles. Use all 4 springs and spacers to keep the chassis level to the ground.

#### Gear Ratios

The Creeper transmission has the ability to accept a wide range of gear ratios. Change the gear ratio as needed for more power or speed.

Follow the Gear Ratio Chart to select the best ratio for your needs.

#### Preload





#### Speed

With the following formulas you can estimate the speed of your Creeper.

Formulas to Calculate Estimated Speed (use in sequence):

#### Find these values first:

Tire Roll Out = One Tire Revolution



KV x Voltage = RPM (No Load RPM) Final Drive Ratio = FDR (See Gear Chart)

#### Follow this sequence:

RPM ÷ FDR = Wheel RPM (WRPM)
WRPM x Rear Tire Roll Out = mm/min
mm/min ÷ 1000 = Meters per min (m/min)
m/min x 60 minutes = Meters/hour (m/hr)
m/hr ÷ 1000 = Kilometers per hour (k/h)
k/h x 0.621 = Miles Per Hour (mph)

Subtract 20% from the estimated speed for a more realistic speed prediction.

#### Tire Inserts

Tire inserts can be considered the same as air pressure in a normal tire.

**Soft Foam** - allows the tire to be flatter and softer, helps the tire conform to irregular surfaces Harder Foam - helps the tire keep its shape, good for heavier crawlers with added weight

Star Pattern Foam Insert - allows the tire to deform more than a plain round insert does. Acts like a softer foam insert.

**Memory Foam Insert** - reduces the bounce of the rubber tire and is usually very soft. Best choice for most applications.

#### Locking Differential

The Creeper features a unique locking differential which helps make turning in tight spaces easier. Lock and unlock the front or rear as needed while on the trails. Use a heavy gear grease to tune the differential for climbing while unlocked. This helps keep the unloaded wheel from spinning as much.

Locked Differential - Best for climbing / Less turning radius

Unlocked Differential - less effective for climbing / tighter turning radius

#### Center of Gravity

The Creeper Chassis was designed with the lowest Center of Gravity (CG) possible in mind. Do not use a heavy battery pack. This will raise the CG and reduce the climbing performance of the chassis. Try to use the lightest and or smallest capacity battery pack so you can get the best performance from your Creeper. Using a Lithium Polymer (LiPO) pack is the best choice because they are about 30% lighter than NiMH battery packs. The Creeper is very efficient and will operate for long periods on even the smallest capacity battery pack.

#### Recommended Battery Packs

VEN-1530	1800mah NiCD
VEN-1532	3000mah NiMH
VEN-1540	3300mah NiMH
VEN-1544	3600mah NiMH
VEN-1553	3200mah LiPO
VEN-1554	4000mah LiPO
VEN-1555	5000mah LiPO

### **Parts List**

PART #	QTY	DESCRIPTION	PART#	QTY	DESCRIPTION
VEN-8300RE		Creeper Kit (Red)	VEN-8351	_	Battery Cover Post
VEN-8300GR	•	Creeper Kit (Green)		2	Body Clip Small
VEN-8302	8 10	10x15x4mm Bearing	VEN-8352	2	Battery Post
VEN-8303 VEN-8304	2	5x10x4mm Bearing 5x11x4mm Bearing	V EIN-0302	1	Creeper Body Set Creeper Body
VEN-8305	3	M2 Lock Nut		1	Decal Sheet
VEN-8306	5	M3 Lock Nut	VEN-8353		Body Post Set
VEN-8307	4	M4 Wheel Lock Nut		4	Body Post
VEN-8308	8	3mm E-ring		4	Body Post Pivot Mount
VEN-8309	12	M3x20mm Stud		8	Body Clip Large
VEN-8310	4	M3 Narrow Washer	VEN-8354	1	Antenna Mount
VEN-8311	4	M2.5 Narrow Washer	VEN-8355		Diff Housing
VEN-8312	8	M2x10mm Sh Cap Screw		1	Diff Housing Right
VEN-8313	3	M2x6mm Ch Screw		1	Diff Housing Left Diff-lock Ring Bushing
VEN-8314 VEN-8315	10	M2x6mm Sh Cap Screw M2x8mm Sh Cap Screw	VEN-8356	1	Diff Ring/Pinion
VEN-8316	4	M2.5x10mm Sh Cap Screw	VLIV-0550	1	39t 26p Ring Gear
VEN-8317	4	M2.5x12mm Ch Screw		i	13t 26p Drive Pinion
VEN-8318	5	M2.5x2.5mm Set Screw	VEN-8357		Diff Gear Set
VEN-8319	5	M2.5x6mm Ch Screw		2	30t 48p Drive Gear
VEN-8320	2	M2.5x6mm Sh Cap Screw		4	15t 48p Spider Gear
VEN-8321	4	M2.5x8mm Ch Screw		2	Spider Gear Shaft
VEN-8322	4	M2.5x8mm Sh Cap Screw	VEN-8358		Diff-Lock Ring
VEN-8323	2 6	M3x10mm Sch Screw		1	Diff-Lock Ring
VEN-8324	6	M3x10mm Sh Cap Screw	VEN-8359	2	Wheel Hub
VEN-8325	2	M3x12mm Sch Screw	VEN-8360	4	Wheel Hub Bushing
VEN-8326	6	M3x12mm Sh Cap Screw	VEN-8361		Steering Linkage Set
VEN-8327	4	M3x14mm Sh Cap Screw		1	25mm Steering Drag Link
VEN-8328	3	M3x16mm Sch Screw		2	Ball Joint 0-eg
VEN-8329 VEN-8330	2 5	M3x16mm Sh Cap Screw		2	108mm Crossover Link Ball Joint 45-deg
VEN-8331	2	M3x18mm Sh Cap Screw M3x20mm Sch Screw		4	M3x20mm Stud
VEN-8332	4	M3x20mm Sh Cap Screw		4	M3 Narrow Washer
VEN-8333	4 2 5 5 2	M3x25mm Sh Cap Screw		2	2mm Spacer
VEN-8334	5	M3x3mm Set Screw	VEN-1215	_	Beadlox 2.2 RC Wheel
VEN-8335	5	M3x6mm Sch Screw		2	Beadlox 2.2 MT Wheel
VEN-8336	2	M3x8mm Sch Screw		2	Beadlox 2.2 Outer Ring
VEN-8337	4	M3x8mm Sh Cap Screw		2	Beadlox 2.2 Inner Ring
VEN-8338		Transmission Housing		24	M2x8mm Sh Cap Screw
	1	Transmission Housing	VEN-1265		Beadlox Ridge-Line 2.2 Tire
	1	Transmission Cover		2	Beadlox Ridge-Line 2.2 Tire
	1	Transmission Dust Shield	VEN 0262	2	Tire Insert
VEN-8339	1	Transmission Plug Transmission Plug	VEN-8362 VEN-8363	4	Wheel Washer Axle Case Set
VEN-8340	1	Motor Plate	VLIV-0303	1	Axle Case Front
VEIV-00-10	i .	Motor Plate		i	Axle Case Back
	i	ESC Mount Plate		2	2mm Spacer
VEN-8341	1	Transmission Gear Set	VEN-8364		VCD Axle Set Short
	1	45t Spur Gear		1	VCD Axle Short
	1	46t Reduction Gear		1	VCD Yoke
	1	Idler Gear		1	VCD Yoke Pin 12mm
	1	46t Drive Gear		1	VCD Shaft
VEN-8342	•	Transmission Shaft Set	VEN 0005	1	M2.5x2.5mm Set Screw
	2	Gear Shaft	VEN-8365	4	VCD Axle Set Long
	2	Gear Spacer Output Shaft		1	VCD Axle Long VCD Yoke
VEN-8343	4	45t Spur Gear		1	VCD Yoke Pin 12mm
VEN-8348	1	Chassis Skid Plate		i —	VCD Shaft
	1	Transmission Skid Right			M2.5x2.5mm Set Screw
	1	Transmission Skid Left	VEN-8366		C-Hub L/R
VEN-8349		Upper Chassis Set		1	C-Hub Right
	1	Upper Chassis		1	C-Hub Left
	1	Foam Pad	VEN-8367	1	VCD Shaft
	2	Battery Post	VEN-8368		Diff Lock Switch
A WA	/ 1= =	Battery Cover		1 2	Diff-Lock Switch Cover
VEN-8350		Shock Tower		1	Diff-Lock Switch
	2	Shock Tower		1	Diff-Lock Switch Dust Cover RTR
	4	6mm Spacer			

#### **Parts List**

PART#	QTY	DESCRIPTION		PART #	QTY	DESCRIPTION
VEN-8370		Skid Plate		VEN-8394		Anti-Roll Springs Set
	1	Rear Link Spacer			1	Internal Shock Spring
	1	Skid PI ate			1	Internal Spring Spacer
VEN-8371		Servo Mount				
	2	Servo Mount				
	1	Steering Servo Plate		Ontion	Dorte	
	1	2mm Spacer		Option	rarts	
	3	6mm Spacer		VEN-1336	1	Fireball 55t Crawler Brushed Motor
VEN-8372	1	Servo Arm (Venom)		VEN-1351	1	V540 Brushless Motor 18.5T 2700Kv
VEN-8373		Hex Drive		VEN-8344	1	46t Spur Gear
	4	Axle Hex Adapter		VEN-8345	1	47t Spur Gear
	4	Hex Adapter Pin		VEN-8346	1	48t Spur Gear
	4	M3x3mm Set Screw		VEN-8347		Remote Diff Lock Kit
VEN-8374		Upper Link Set			1	Diff-lock Servo Cable Stay
	2	Upper Link			1	Diff-lock Cable Adjustment
	4	Ball Joint 20-deg			1	Servo Arm Clevis
	4	M3x20mm Stud			1	Servo Spacer
VEN-8377		Lower Link Set			1	M2.5X2.5mm Set Screw
	2	Lower Link			1	M2 Lock Nut
	4	Ball Joint 12-deg			1	Diff Lock Tube
	4	M3x20mm Stud			1	Diff Lock Cable
VEN-8380		VCD Center Driveline			1	Cable Stay
	1	VCD Half Shaft Female			1	Option Diff-lock Switch Dust Cover
	1	VCD Half Shaft Male			1	Option Diff-lock Lever
	1	VCD Coupler			1	Small Cable Stay
	1	M2.5x2.5mm Set Screw			1	6mm Spacer
	1	VCD Yoke			1	Diff-lock Cable Support
	1	VCD Yoke Pin 13mm		VEN-8390		Carbon Chassis Plate Set
VEN-8383	6	Pivot Ball 6mm			2	Chassis Plate
VEN-8384		Body Clips		VEN-8392		Wheel Weight Set 2.5oz
	2	Body Clip Small			12	M3x8mm Skt B.H. Screw
	4	Body Clip Large			12	2.5oz Weight
VEN-8385		Crawler Shocks (1 Pair)		VEN-8393		Wheel Weight Set 1.3oz
	2 2	Shock Body			12	M3x8mm Skt B.H. Screw
	2	Shock Upper Pivot			12	1.3oz Weight
	2	Shock Lower Pivot		VEN-8395		Alloy Diff Case Set
	2	Shock Shaft			1	Diff Housing Left
	2	Shock Spring			1	Diff Housing Right
	2	Shock Lower Cap Seal			4	M2x8mm Sh Cap Screw
	2 2	Shock Spring Perch				
	2	Shock Lower Cap				
	2	Shock Upper Cap				
	2	Shock Collar				
	2	Shock Collar Oring				
	2	2 Hole Shock Piston				
	4	Shock O-Ring Seal				
	2	Shock Bladder				
VEN-8387		Shock O-Ring/Bladder				
	4	Shock O-Ring Seal				
	2	Shock Bladder				
VEN-8388		Shock Piston/Seal				
	2	2 Hole Shock Piston				
	2	Shock Lower Cap Seal				
VEN-0337	1	Antenna Tube				
VEN-1465	1	15t 48p Motor Pinion				
VEN-8389		Chassis Plate Set				
	2	Chassis Plate				
VEN-8391		Rear Link Set		**		
	6 2	2mm Spacer	A			
	2	Steering Link				
	4	M3x20mm Stud	LA			
	1	Ball Joint 0-deg				
/8	VW =			THE	3 3 3	
-						

#### WARRANTY, SERVICE AND SUPPORT

Thank you for purchasing the Venom Creeper™. We want to assure you that your model is backed by first-class customer service and support.If you have questions or concerns about your Venom Creeper™, simply call us at 800.705.0620, Monday - Friday. 9:00am to 4:00pm Pacific Standard Time. You can also e-mail us at customerservice@venom-group.com. For hands on service and faster access to replacement parts, please visit your local hobby shop.



Venom Group™ warrants this product to be free of material and workmanship defects when new. If a component is found to be defective or was not correctly made. Venom™ will, at its sole discretion, repair or replace it free of charge within 90 days from date of purchase. If you believe a defect became evident only after operation, please contact us to discuss the situation.

The Venom Creeper™ is a hobby-class model™ and not a "toy". Because this product is intended to be used over a wide range of operating conditions and situations. Venom Group™ does not offer any warranty, express or implied, that covers damage caused by normal use or wear, or cover or imply how long any component of the Venom Creeper™ will last before requiring replacement due to wear or breakage.

Any and all warranty coverage does not cover replacement of parts and components damaged by water, neglect, improper use, chemical damage, crash damage, unauthorized modification or the use of any non Venom™ product in association with the Venom Creeper™.

A dated & itemized sales receipt must accompany any product returned for warranty work.

#### Warning

Venom Group™ and its affiliates, partners and subsidiaries cannot control the use, application or installation of this product and shall not be held liable for any property damage or personal injury resulting from the improper use of this product or failure to follow the supplied instructions.

By the act of using this product, the user accepts all resulting liability. In no case will Venom Group™ liability be greater than the actual purchase price of the product.



#### Repair

For all non-warranty repairs, Venom Group™ charges \$20/hr plus the cost of the replacement parts and \$10 for return shipping to US/Canada or \$30 International.

When sending in a product for warranty and/or repair, please follow these steps:

- 1) Call Venom Group™ Customer Service at 800-705-0620 to receive a Return Merchandise Authorization Number (RMA#).
- Include a short summary of the problem.
- 3) Include your return address, \*\*\*We can NOT return ship to PO Boxes\*\*\*.
- Include a daytime telephone number and/or e-mail address.
- 5) When preparing the Venom Creeper™ for shipment, please use the following guidelines to assist us in expediting your repair and keeping any repair costs for you to a minimum:
- Remove all batteries from the Venom Creeper™.
- Remove any non Venom<sup>™</sup> after-market parts.
- · Package all items in original box as arranged upon purchase.
- · If you are sending loose items, please seal them in a bag to avoid loss. Make sure to secure all parts to prevent further damage.
- Ship your package "Insured" and ask for "Delivery Confirmation" with a tracking number. Venom Group™ will not be responsible for lost or damaged packages in transit to us.

#### Contact

Venom Group International North America 600 West Buckles Road Hayden, ID 83835

Australia P.O. Box 7325 Alexandria NSW 2015 Australia **Customer Service** 800.705.0620 customerservice@venomgroup.com www.venom-group.com







#### Copyright © 2008 by Venom Group™

#### Notice of Rights

All rights reserved. No part of this manual may be reproduced or transmitted in any form by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Venom Group™. For information on getting permission for reprints and excerpts, contact customerservice@venom-group.com.

#### **Notice of Liability**

The information in this manual is distributed on an "As Is" basis, without warranty. While every precaution has been taken in the preparation of the manual, Venom Group™ does not have any liability to any person or entity with respect to any loss or damage caused or alleged to be caused directly or indirectly by the instructions contained in this manual or by the products described in it.