

KIT VERSION

WRAITH™

1/10th SCALE ELECTRIC 4WD ROCK RACER



OFF ROAD



MOUNTAINOUS



ROCKY



DESERT




 **axial®**

www.axialracing.com



CAUTIONS

 **To prevent serious personal injury and/or property damage, operate all remotely controlled models in a responsible manner as outlined herein.**

CHOOSE THE RIGHT PLACE TO OPERATE YOUR R/C MODEL.

- Do not run on public streets or highways. This could cause serious accidents, personal injuries, and/or property damage.
- Never run R/C models near people or animals.
- To avoid injury, do not run in confined spaces.
- Do not run where loud noises can disturb others, such as hospitals and residential areas.
- Never run indoors. There is a high risk of fire and/or damage.


INSPECT YOUR MODEL BEFORE OPERATION.

- Make sure that all screws and nuts are properly tightened. It is also a good idea to use removable thread lock wherever metal screws go into metal, especially for engine mounts and the engine pilot shaft.
- Always use fresh batteries for your transmitter and for your receiver to avoid losing control of the model.
- Always test the brakes and throttle before starting your engine to avoid losing control of the model.
- Make sure no one else is using the same radio frequency as you are using.

AFTER OPERATION OF YOUR R/C MODEL

- Turn off receiver first, then turn off transmitter, this will prevent runaways.
- Be careful when handling batteries, they will be hot after running.
- Replace any batteries that have been dented or have frayed wires, short circuits can cause fire.
- Be sure to keep your R/C model clean and free of excess dirt and grease, this will increase the life.

VORSICHT!

 **Um Verletzungen an Personen und/oder Sachschäden zu vermeiden, sollten alle ferngesteuerten Modelle sorgfältig und verantwortungsbewusst bedient werden, wie nachfolgend beschrieben.**

Wählen Sie den richtigen Platz zum Fahren

- Fahren Sie niemals auf öffentlichen Straßen. Dies könnte Verkehrsunfälle, Personen schäden oder Sachschäden verursachen.
- Fahren Sie niemals in der Nähe von anderen Personen oder Tieren.
- Fahren Sie niemals auf belebten Straßen.
- Fahren Sie nie in der Nähe von Wohnhäusern oder Krankenhäusern. Der Lärm könnte andere Personen stören.
- Fahren Sie niemals in Innenräumen. Dort könnte etwas beschädigt werden.

Überprüfen Sie Ihr Modell, bevor Sie es in Betrieb nehmen.

- Gehen Sie sicher, dass alle Schrauben und Muttern festgezogen sind. Verwenden Sie überall dort Schrauben-Sicherungslock, wo Metallschrauben in ein Metallgewinde greifen, besonders bei den Motorhaltern.
- Um Störungen zu vermeiden, benutzen Sie immer voll geladene Akkus in Ihrem Sender und Empfänger.
- Bevor Sie den Motor starten, sollten Sie immer die Funktion der Bremse und des Gashebels testen.
- Gehen Sie sicher, dass niemand mit der gleichen Frequenz fährt wie Sie.

Nach Betrieb des RC Modells:

- Zuerst den Empfänger abdrehen, dann den Sender abdrehen um unkontrolliertes Durchgehen zu vermeiden.
- Seien Sie vorsichtig mit gebrauchten Akkus, sie können nach dem Gebrauch heiß sein.
- Ersetzen Sie Akkus/Batterien die beschädigt sind oder schadhafte Kabel aufweisen, sie können Kurzschlüsse oder Feuer verursachen.
- Halten Sie Ihr Fahrzeug sauber und entfernen Sie Schmutz und Schmierfett, damit erhöhen Sie die Lebensdauer Ihres Modells.

PRECAUTIONS

 **Afin d'éviter toutes blessures corporelles et/ou dommages environnants, veuillez procéder en toute responsabilité comme indiqué ci-dessous**

Choisir le lieu adéquat pour faire rouler votre modèle.

- Ne jamais rouler dans les rues ou sur les routes ouvertes au public. Ceci peut provoquer de graves accidents.
- Ne jamais rouler près de personnes ou d'animaux.
- Pour éviter les blessures, ne pas rouler dans des espaces confinés.
- Ne jamais rouler où le bruit peut déranger, comme aux abords des hôpitaux ou des quartiers résidentiels.
- Ne jamais rouler à l'intérieur: les gaz d'échappement sont nocifs.

Contrôler votre modèle avant chaque utilisation.

- Vérifier que les vis et les écrous sont bien serrés. Il est très fortement conseillé d'utiliser du frein filet pour bloquer les vis qui sont en contact avec du métal et tout particulièrement les vis du moteur.
- Toujours utiliser des batteries bien chargées pour l'émission et la réception.
- Toujours vérifier les freins et la commande des gaz avant de démarrer.
- Vérifier qu'aucune autre personne n'utilise votre fréquence radio.

Après l'Opération De Votre Modèle de R/C

- Le virage du récepteur premier, alors virage de l'émetteur, ceci empêchera des fugitifs.
- Faire attention en contrôlant des piles, ils auront chaud après avoir couru.
- Remplacer n'importe quelles piles qui ont été cabossées ou a éraillé des fils, les court-circuits peuvent causer le feu.
- Être sûr de garder votre modèle de R/C nettoie et libère de terre et la graisse supplémentaires, ceci augmentera la vie.

Equipment needed / Benötigtes Zubehör / Equipement nécessaire

Radio Gear / Fernsteueranlage / Equipement Radio

Radio control system

• You will need a 2-Channel radio system with one servo, receiver, an electronic speed control with an ON/OFF switch.

Fernsteueranlage

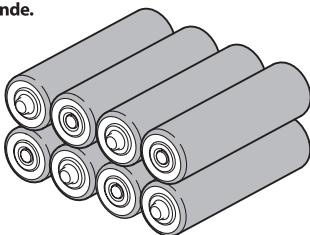
• Sie werden ein 2-kanal Radio System mit einem Servo, Empfänger, eine elektronische Geschwindigkeitssteuerung mit einem Netzschalter brauchen.

Ensemble radiocommande

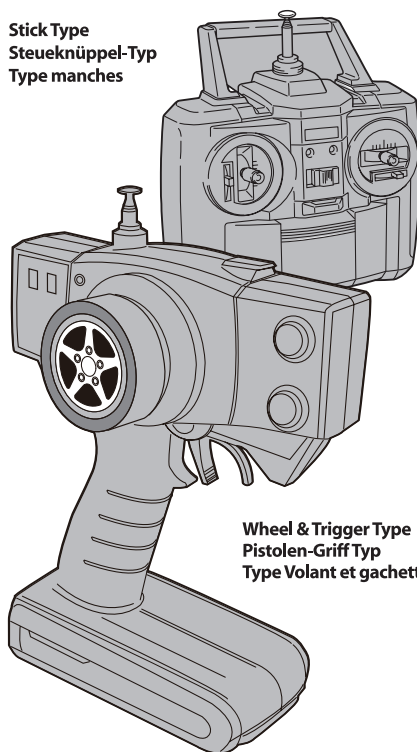
• Vous aurez besoin d'un système de radio de 2 Chaines avec un servo, le récepteur, un contrôle de vitesse électronique avec un interrupteur (on-off).

- 8AA Alkaline Dry Batteries.
- 8 St. AA Trockenbatterien.
- 8 piles type R6 pour votre radio commande.

8x

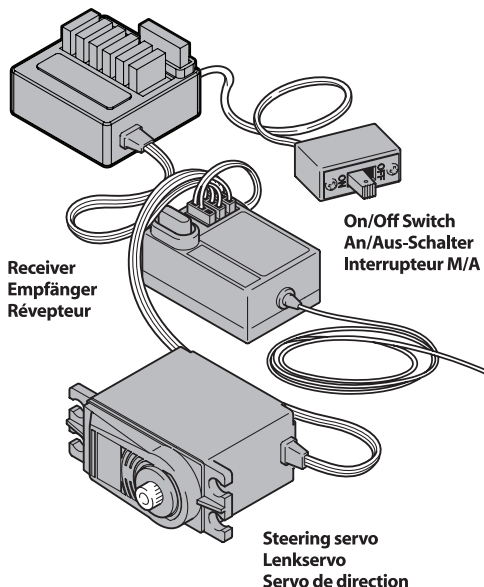


Stick Type
Steuerknüppel-Typ
Type manches



Wheel & Trigger Type
Pistolen-Griff Typ
Type Volant et gachette

Electronics Speed Control with Dual Motor Capabilities
Electronics Speed Control
Elektronischer Fahrtenregler
Contrôleur de Vitesse électronique



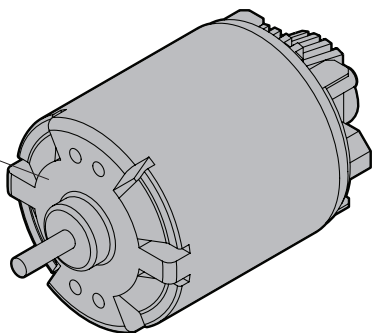
On/Off Switch
An/Aus-Schalter
Interrupteur M/A

Receiver
Empfänger
Récepteur

Steering servo
Lenkservo
Servo de direction

Motor / Motoren / Moteur

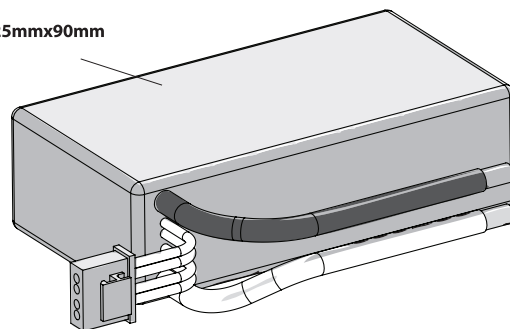
540 Size



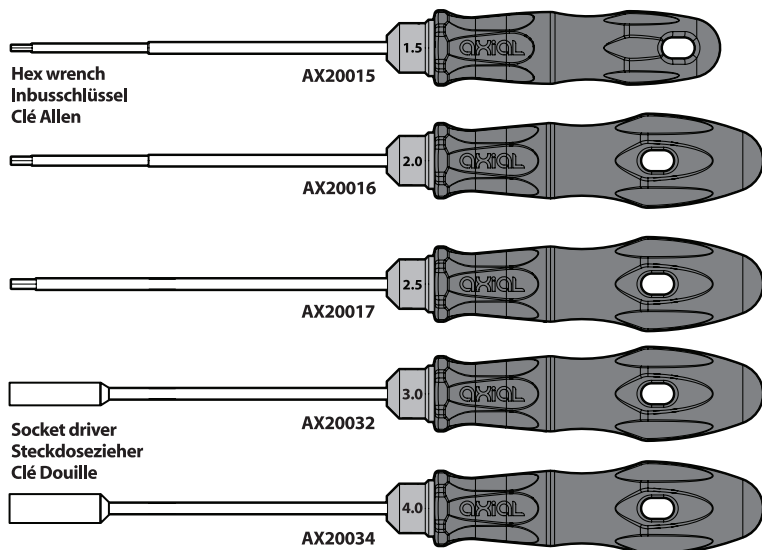
Battery / Akku / Batterie

Battery / Akku / Batterie

Battery:
Maximum size 30mmx25mmx90mm



Tools Recommended / Benötigte Werkzeuge / Outillage



Hex wrench
Inbusschlüssel
Clé Allen

AX20015

AX20016

AX20017

AX20032

AX20034

Socket driver
Steckdosezieher
Clé Douille

Side cutter
Seitenschneider
Pincettes coupantes

Curved scissors
Schere
Ciseaux

Long nose pliers
Flachzange
Pincettes à becs longs

Modeling knife
Modelliermesser
Couteau de modéliste

Warranty Info

Axial Limited Warranty (USA)

Your Axial product is warranted to be free of defects in materials and workmanship when new. This warranty does not cover damages due to normal wear and tear, user's failure to perform routine maintenance, user error of assembly or installation, user modifications, addition of aftermarket parts or option parts. This warranty lasts as long as the original purchaser owns the product, and is not transferable (Verified by dated itemized sales receipt). In the event of a defect under this warranty, Axial will, at our discretion, repair or replace the product, provided our inspection indicates that an original defect exists. Axial reserves the right to replace any product which is no longer available with a product of comparable value and function. If Axial determines the repair is not covered under warranty guidelines, there could be a charge applied for the repair and return shipping charges.

International Customers Warranty

Please return product to the dealer where the purchase was made. If your Axial product purchase was made through an on-line retailer, any warranty issues must be taken care of by that retailer. Axial assumes no responsibility for Axial products sold internationally by on-line retailers.

Service

If you need service on your Axial product here are some simple steps to follow when sending in product in for Warranty/ Repair.

STEP 1:

Contact Axial Customer Service at 949-600-8642 Ext: 206 to receive a Return Merchandise Number (RMA#). **Note:** Axial requires the RMA# to be placed on the return merchandise box when shipped to Axial.

STEP 2:

Please write a short note explaining the issue you experienced with the product.

STEP 3:

Include your return address with a daytime phone number and /or e-mail address.

STEP 4:

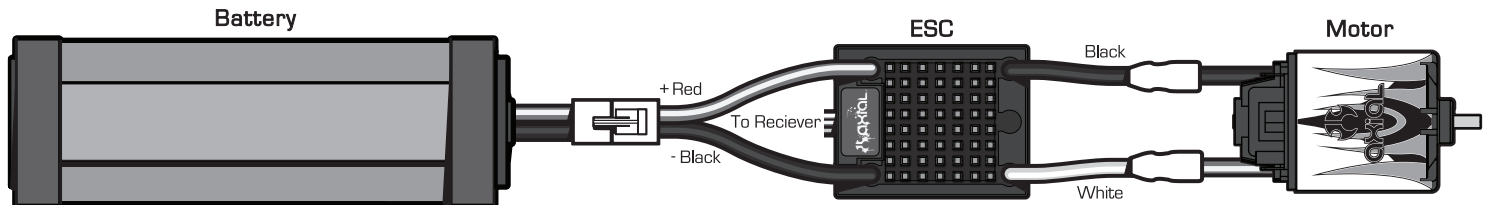
Please include a Money Order in the amount \$10.00 made payable to Axial for return shipping costs although If product is found to be under Axial Warranty coverage, the \$10.00 will be refunded to you.

PLEASE NOTE: Tuning issues are not covered under the Axial Warranty and shipping fee's do apply.

Please allow 5-10 working days for product to be returned. Axial ships using United Postal Service Priority mail or UPS Ground. Any expedited shipping must be arranged and prepaid by customer. Axial will not be responsible for lost or damaged packages.

AX24259

AE-2 Forward/Reverse ESC Instructions



Setup:

- Mount the ESC in an area that is well ventilated and isolated from vibration and shock.
- Connect the ESC wires to the motor.
- Plug the receiver wire into the throttle channel on the receiver.
- Before plugging the battery into the ESC, make sure your transmitter is on and the throttle trim is set at zero.
- Plug in the battery to the ESC with the ESC switch in the OFF position.
- Apply full throttle on the transmitter.
- Turn on the ESC switch while applying full throttle.
- The ESC will emit a series of beeps with the red LED.
- Continue applying full throttle until the ESC blinks green and emits a series of beeps.
- Once the esc blinks red, apply full brake/reverse.
- The ESC will emit a series of beeps while blinking red to finalize the brake/reverse endpoint.
- Return the throttle to the neutral position and the ESC will emit a series of beeps to finalize the neutral point.
- The ESC will emit a final series of beeps confirming the ESC is ready to work.
- Apply throttle to make sure the motor is going the direction you wanted. To reverse the direction of the motor, switch the wires going to the motor.

Do not reverse the battery wire connections! Reversing the battery polarity will permanently damage the ESC.

Notes:

- If ESC setup does not initialize when holding the full throttle, try switching the throttle reversing switch on the transmitter.
- LiPo Cut-Off is set to "ON" from the factory.
- Use the Castle Link to access the advanced settings in the ESC.
Visit <http://www.castlecreations.com/> for more information on the Castle Link USB Programming Kit.

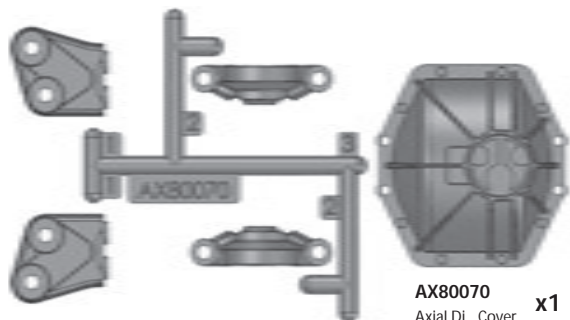


CONNECT THE BATTERY PACK JUST BEFORE DRIVING AND DISCONNECT IT IMMEDIATELY AFTER.
ALWAYS MAKE SURE YOU ARE CONNECTING THE ESC TO A PROPER POWER SOURCE THAT HAS THE CORRECT VOLTAGE & POLARITY. INCORRECT VOLTAGES OR REVERSED POLARITY WILL DAMAGE THE ESC.
ONCE THE BATTERY PACK IS CONNECTED, HANDLE THE MODEL WITH EXTREME CARE, MAKE SURE YOU ARE CLEAR OF ALL ROTATING PARTS.

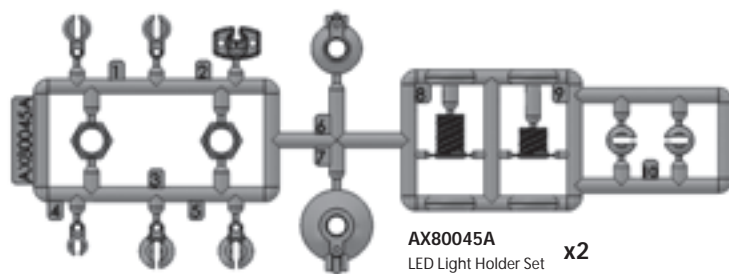
Specifications:

Input voltage:	6 Cell Ni/2S LiPo
Size:	1.7 inx1.24 in
Weight:	45 grams
Motor Limit:	19T
On-Resistance FET:	.0018
Rated/Peak Current:	106A Peak
Braking Current:	106A Peak
BEC Voltage/A:	5.0V 2.0A Peak
PWM Frequency:	6 KHZ

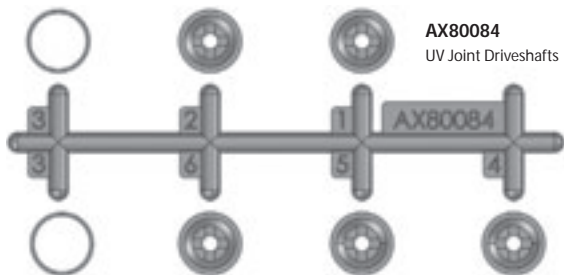
AX24259-1001



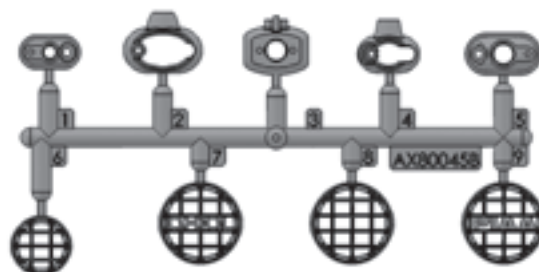
x1



x2



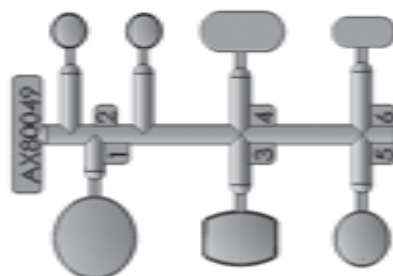
x2



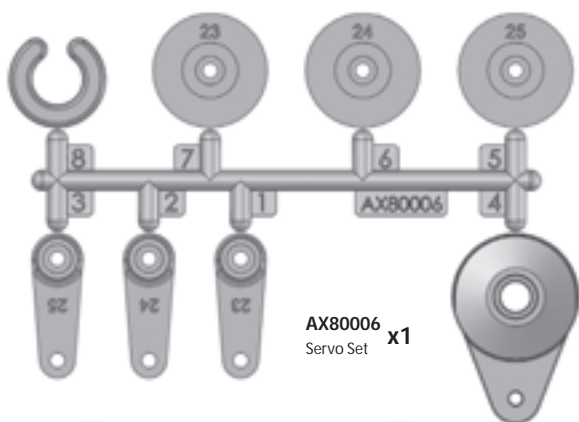
x2



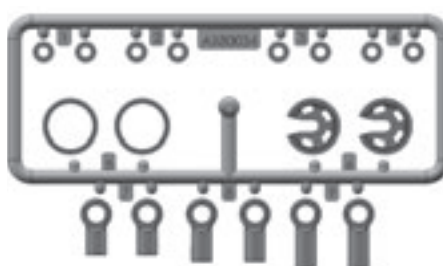
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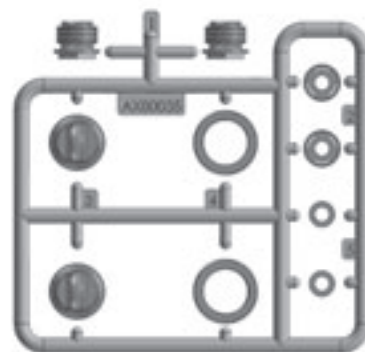
x2



x1



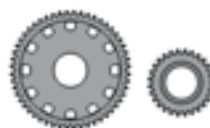
x2



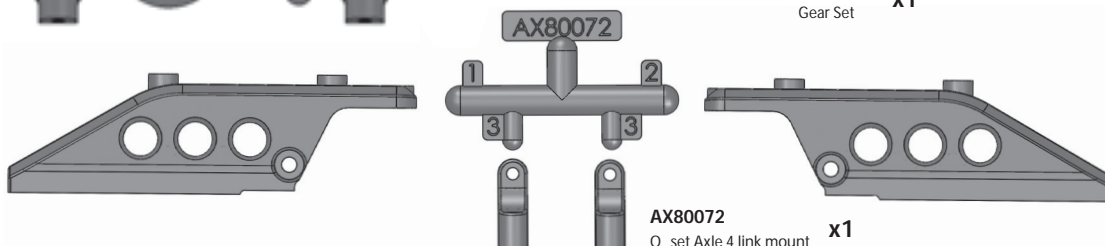
x2



x1



x1

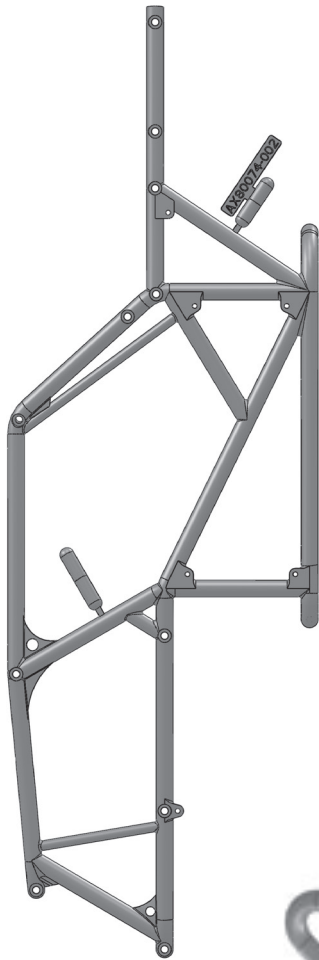


x1

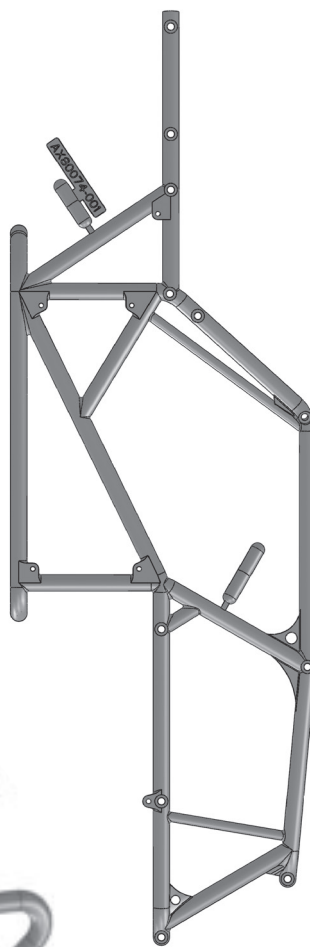


x1

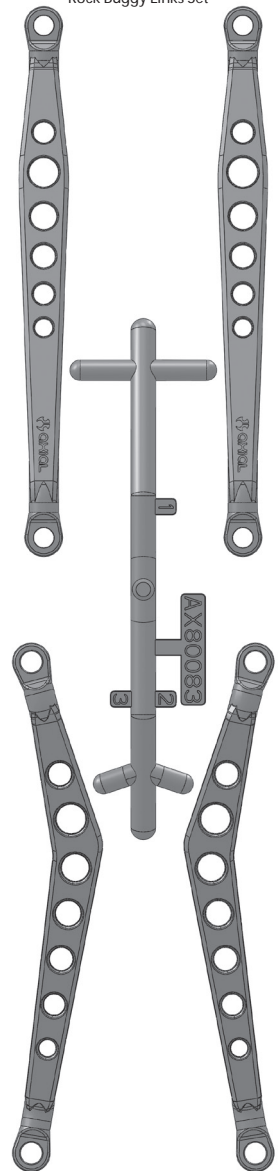
AX80088
Rock Buggy Main Frame **x1**



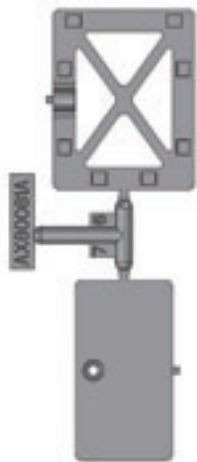
AX80087
Rock Buggy Main Frame **x1**



AX80083
Rock Buggy Links Set **x2**



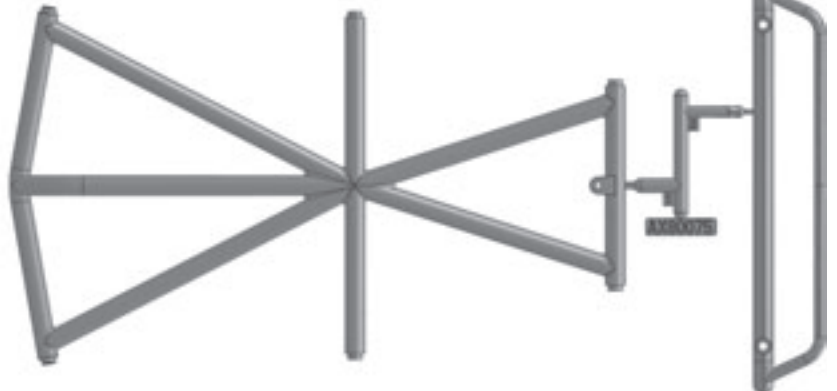
AX80081A
Radio Case **x1**



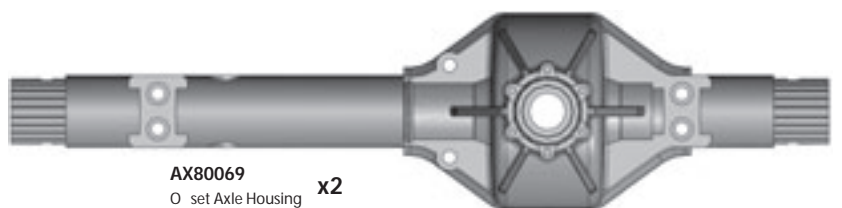
AX80077
Rock Buggy Front End 1 **x1**



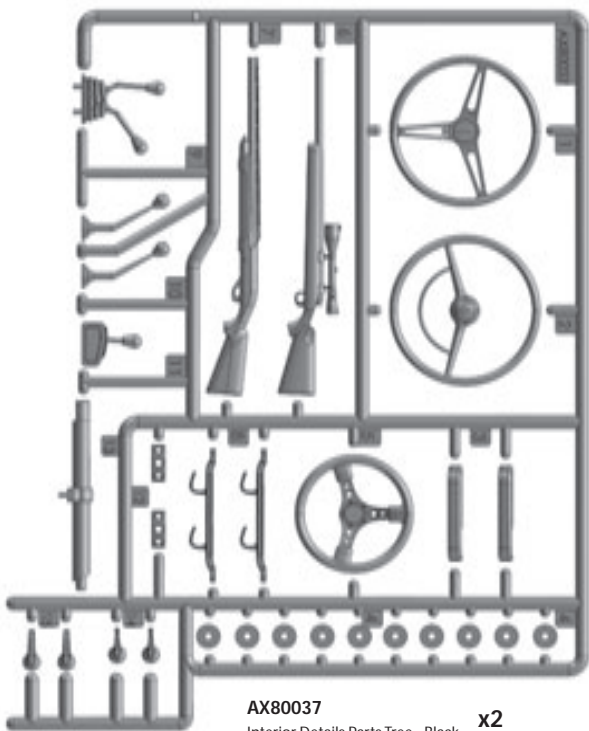
AX80075
Wraith Tube Frame TOP **x1**

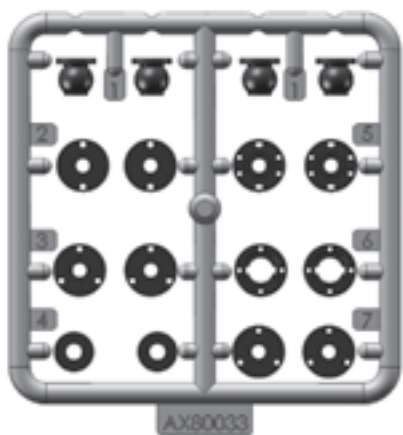


AX80069
O set Axle Housing **x2**

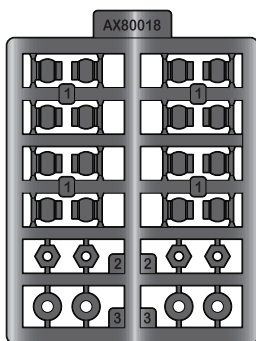


AX80037
Interior Details Parts Tree - Black **x2**

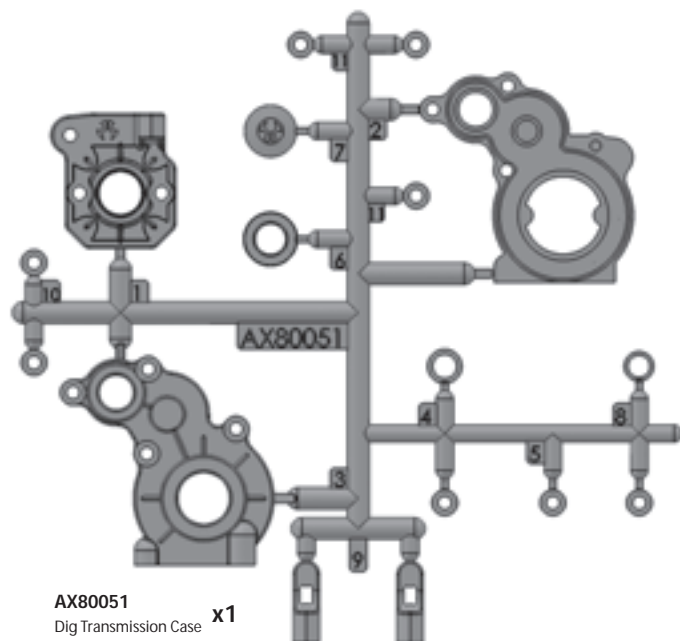




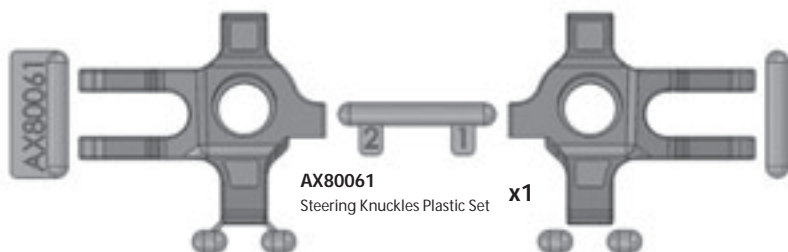
AX80033
10mm Shock Set 1 **x2**



AX80018
Hardware Parts Tree **x2**



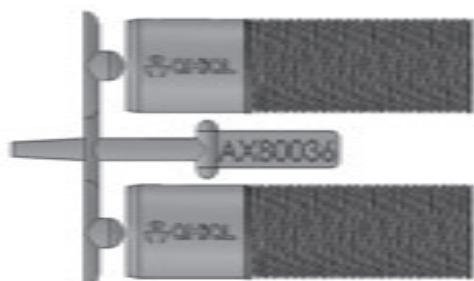
AX80051
Dig Transmission Case **x1**



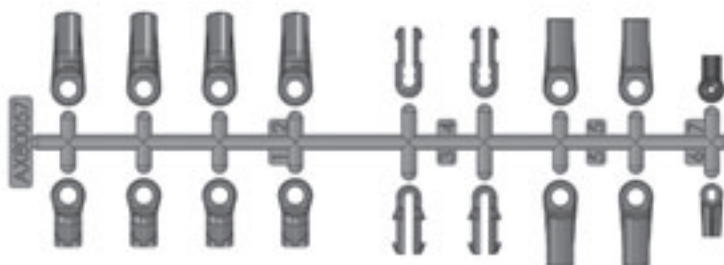
AX80061
Steering Knuckles Plastic Set **x1**



AX80071
Straight Axle Adapter Rear **x1**



AX80036
72-103mm Shock Body **x2**



AX80057
XR10 Linkage Set **x2**



AX30779-001-02
Axle Shaft Short **x1**



AX30780-001-01
Axle Shaft Long **x1**



AX30776
Straight Axle Shaft 6x104.2mm **x1**

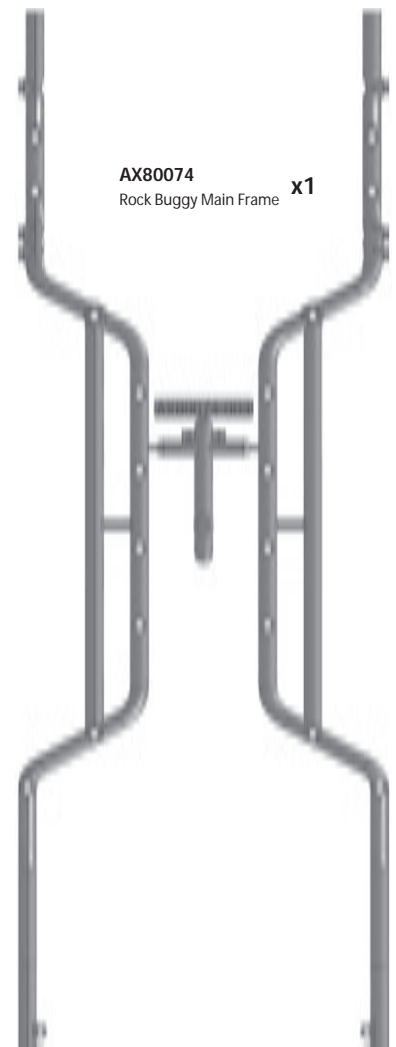
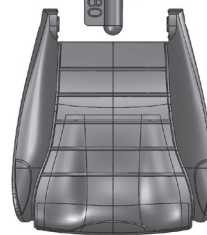
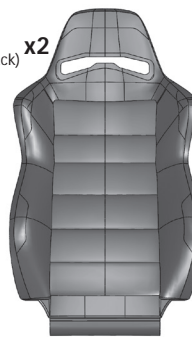


AX30776
Straight Axle Shaft 6x160.2mm **x1**



AX80081
Radio Case **x1**

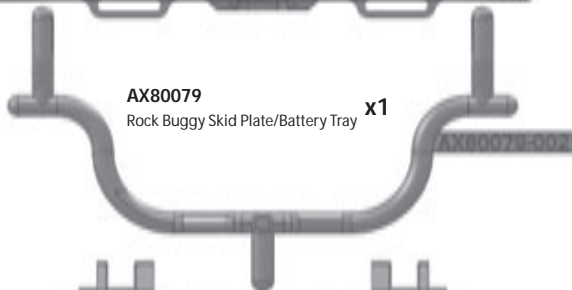
AX80090
Corbeau LG1 Seat(Black) **x2**



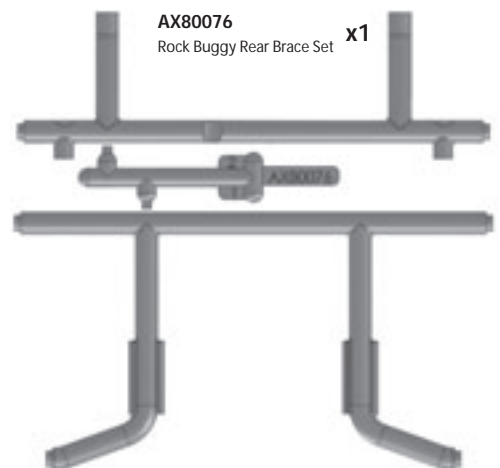
AX80074
Rock Buggy Main Frame **x1**



AX80079
Rock Buggy Skid Plate/Battery Tray **x1**

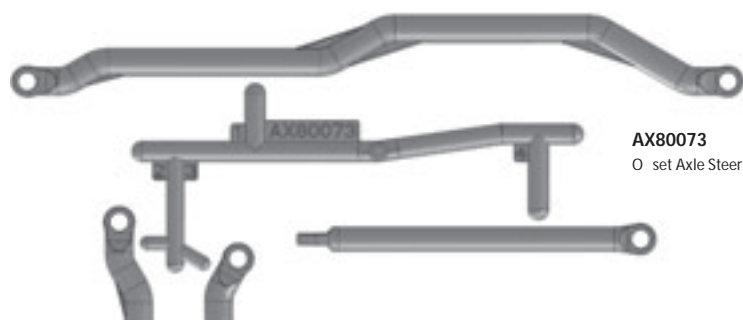
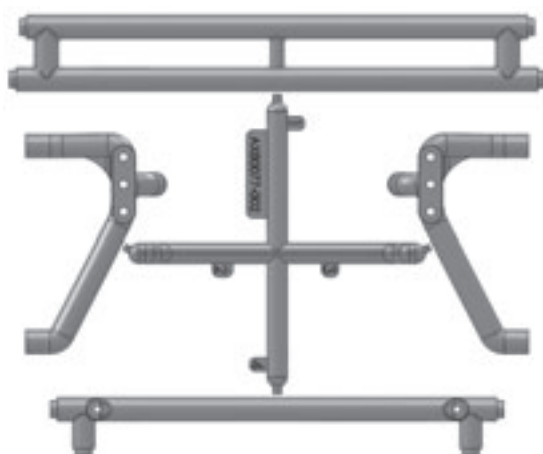


AX80076
Rock Buggy Battery Brace **x2**



AX80076
Rock Buggy Rear Brace Set **x1**

AX80089
Rock Buggy Front End 2 **x1**



AX80073
O set Axle Steering Link **x1**


AX30162
Pin 1.5x8mm

x2


AX30163
Pin 2x10mm


x6


AX30166
Pin 1.5x11mm

x4


AXA180
M3x3mm

x10


AXA175
Screw Shaft M3x2.5x11mm

x4


AXA187
Set Screw M3x20mm

x12


AX30463
Universal Joint Axle Pin holder


x4


AX30450
Flange Pipe 3x4.5x5.5


x4


AX30392
13T Bevel Gear

x2


AX30394
20T Drive Gear


x1


AX30578
Pinion 48DP 20T


x1


AX30429
12mm Locking Hub

x4


AX30113
Rubber Bump Stop 3.6x7x4


x4


AX30413
Slipper spring

x1


AX30112
Shock Diaphragm 13x4.5mm

x4


AX30784
Drive Shaft Coupler

x4


AX30785
Drive Shaft Output


x4


AX30435
Steel Outdrive Shaft

x1


AX30190
Shaft 5x18


x1


AX30408
Input Shaft 5x29mm

x2


AX30198
Slipper Drive gear Shaft 5x53.5

x1


AX30792
Thread Aluminum Rod 7x87.5mm (grey anodized)

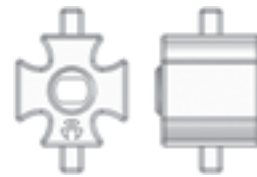
x4


AX30437
Dig Lockout Shaft

x1


AX30777
56x17mm Servo Plate

x1


AX30500
Heavy Duty Locker

x2


AX30385
Di Gasket 16x25x0.5mm

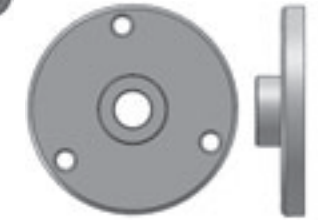
x2


AX30392
38T Bevel Gear

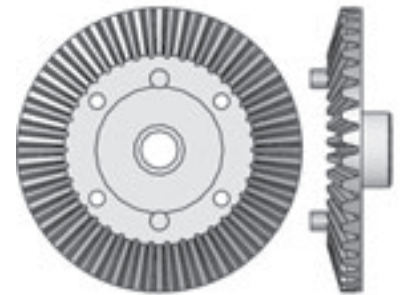
x2


AX30410
Inner Slipper Plate

x1


AX30411
Outer Slipper Plate

x1


AX30392
38T Bevel Gear

x2


AX30491
AX10 Scorpion Motor Plate

x1


AX30224
Spring 14x70mm - Super Soft (Red)

x4



AXA1040
M3 Thin Hex Nut **x2**



AXA1041
M2.5 Nylon Lock Nut **x4**



AXA1052
M3 Thin Nylon Locking Hex Nut **x20**



AXA1053
M3 Nylon Locking Hex Nut **x1**



AXA1069
Washer 2.7x6.7x0.5 mm **x6**



AXA1070
Washer 3x6x0.5 mm **x6**



AXA1071
Washer 4x8x0.5 mm **x1**



AXA1090
Washer 4.8x14 (Green) **x4**



AXA1091
Washer 5x10x0.5 mm **x1**



AXA1184
O-Ring 7.5x1.5 mm **x4**



AXA1202
O-Ring 3.5x2 mm **x8**



AXA1218
Bearing 5x10x4 mm **x4**



AXA1221
Bearing 5x11x4 mm **x11**



AXA1230
Bearing 10x15x4 mm **x6**



AXA1225
Bearing 8x16x5 mm **x1**



AXA1243
Bearing 15x21x4 mm **x1**



AXA1280
M3x10 mm Servo Flange Screw **x4**



AXA1356
Silicone Shock Bushing 7.5x8 mm **x4**



AXA1393
E2.5 e-clip **x2**



AXA1045
M4 Nylon Lock Nut **x5**



AXA013
M2x6 mm **x19**



AXA015
M2x10 mm **x16**



AXA083
M3x6 mm **x5**



AXA087
M3x16 mm **x8**



AXA089
M3x25 mm **x3**



AXA091
M3x30 mm **x2**



AXA0113
M3x6 mm **x5**



AXA116
M3x12 mm **x2**



AXA117
M3x15 mm **x3**



AXA118
M3x18 mm **x16**



AXA144
M3x8 mm **x4**



AXA0412
M2.6x6 mm **x3**



AXA0413
M2.6x8 mm **x4**



AXA0414
M2.6x10 mm **x6**



AXA0416
M2.6x18 mm **x2**



AXA463
M3x6 mm **x2**



AXA464
M3x8 mm **x3**



AXA465
M3x10 mm **x7**



AXA466
M3x12 mm **x6**



AXA0422
M2.6x6 mm **x29**



AXA433
M3x6 mm **x8**



AXA434
M3x8 mm **x4**



AXA435
M3x10 mm **x16**



AXA436
M3x12 mm **x5**



AXA0437
M3x15 mm **x9**



AXA438
M3x18 mm **x46**



AXA0439
M3x20 mm **x4**



AXA440
M3x25 mm **x2**



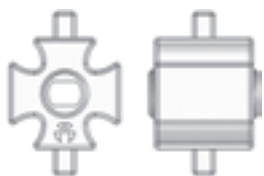
AXA441
M3x30 mm **x2**

A**Open Bag A****1****AXA015**
M2x10mm**x8****AXA1230**

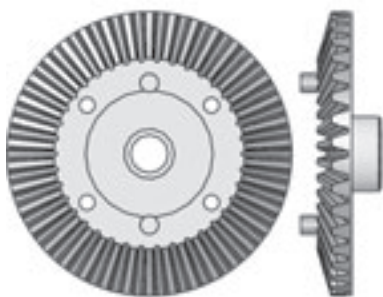
Bearing 10x15x4mm

x4**AX30385**

DI Gasket 16x25x0.5mm

x2**AX30500**

Heavy Duty Locker

x2**AX30392**

38T Bevel Gear

x2**AX30163**

PIN 2.0x10mm

x2**AXA1393**

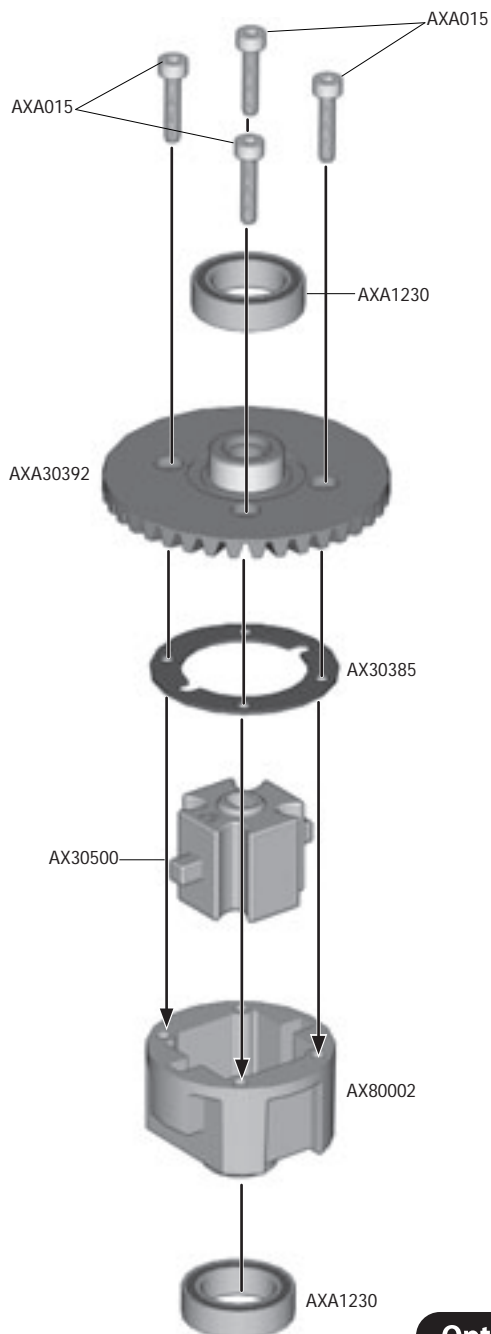
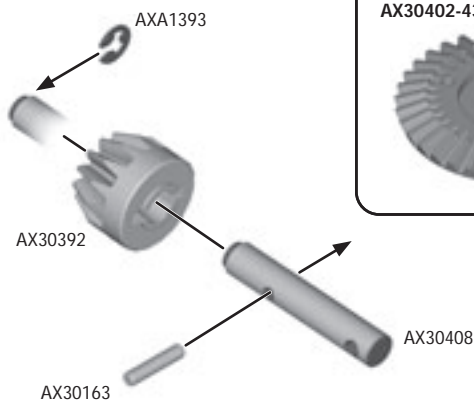
E2.5 e-clip

x2**AX30408**

Input Shaft 5x29mm

x2**AX30392**

13T Bevel Gear

x2**x2****Option Parts**Heavy Duty Bevel Gear Set
AX30395-38T/13T
AX30401-36T/14T
AX30402-43T/13T



AXA1221
Bearing 5x11x4mm x4

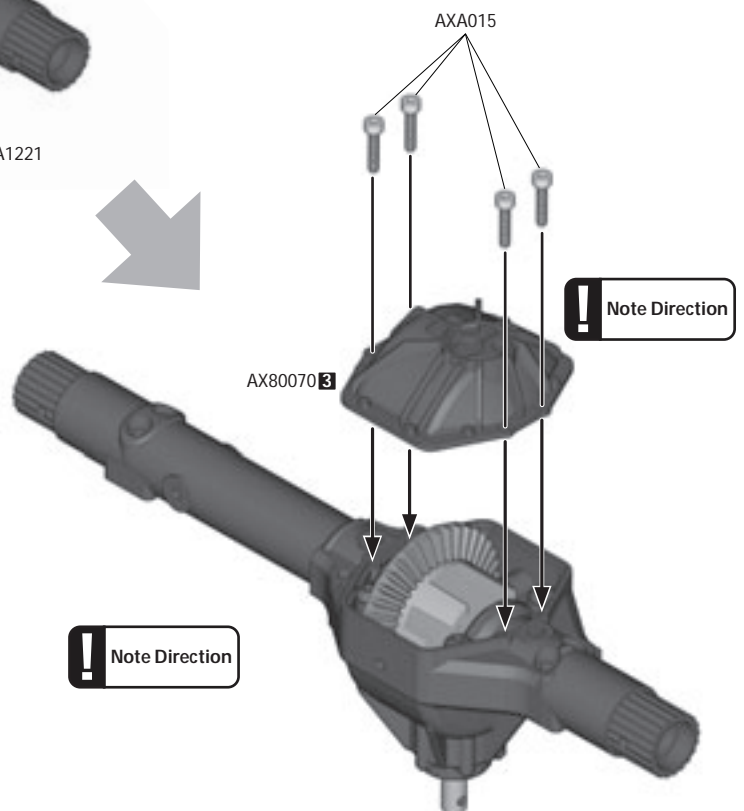
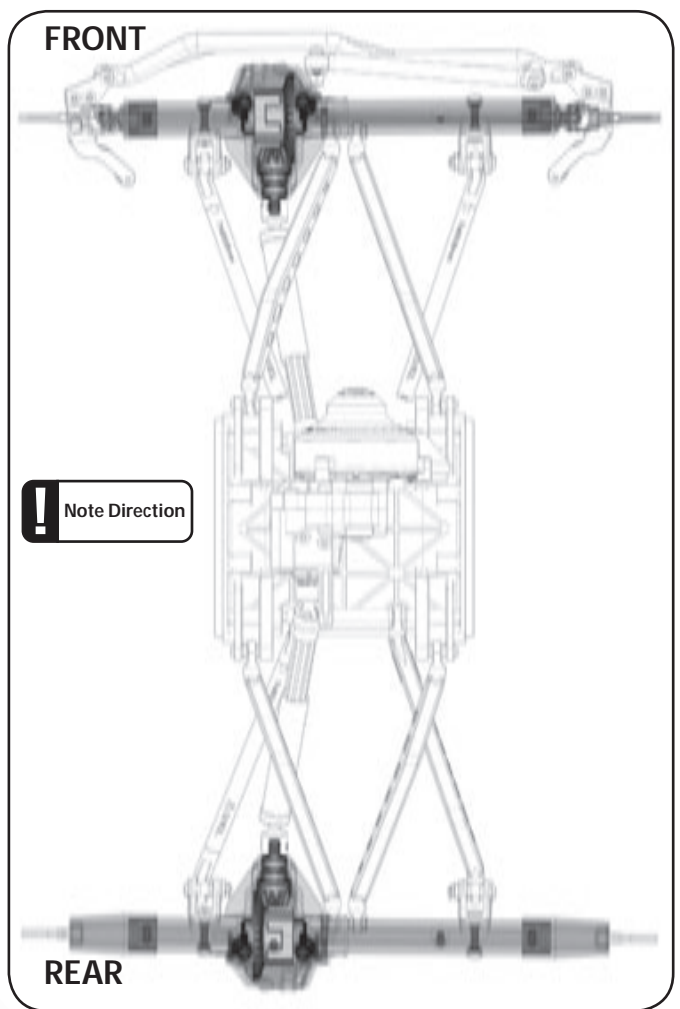
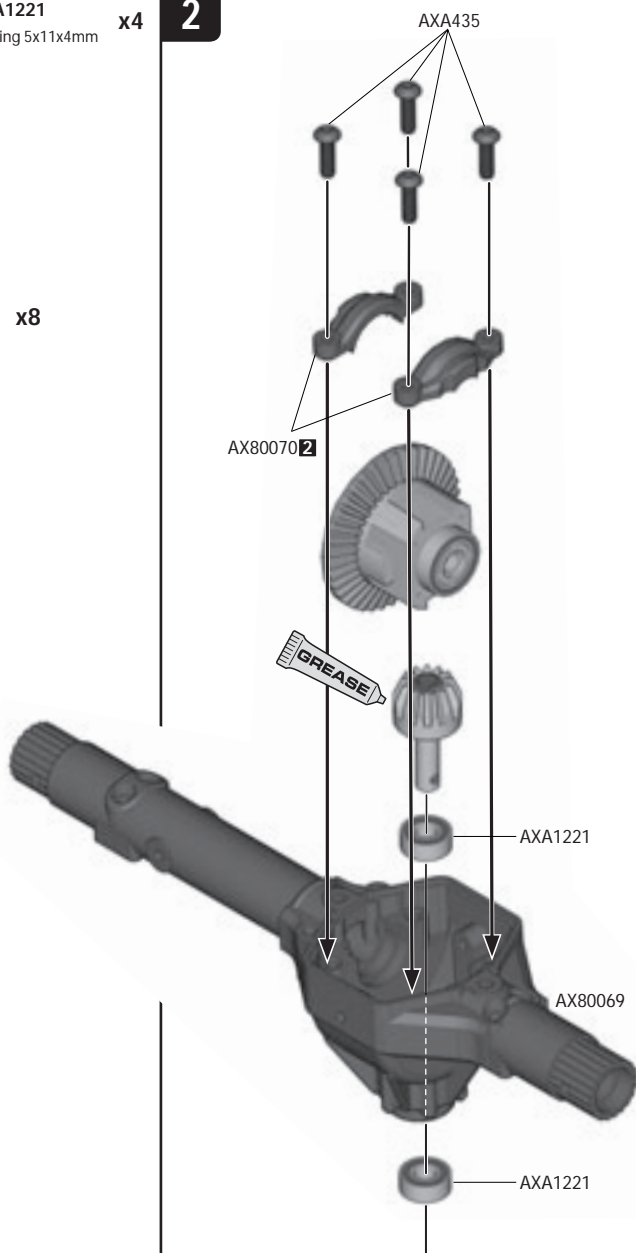
2



AXA435
M3x10mm x8



AXA015
M2x10mm x8



Option Parts



AX30762
Aluminum C Hub Carrier



AX30760
Aluminum Steering Knuckle



Note Direction

LEFT



RIGHT



AXA1221
Bearing 5x11x4mm **x4**



AXA1230
Bearing 10x15x4mm **x2**



AXA433
M3x6mm **x4**

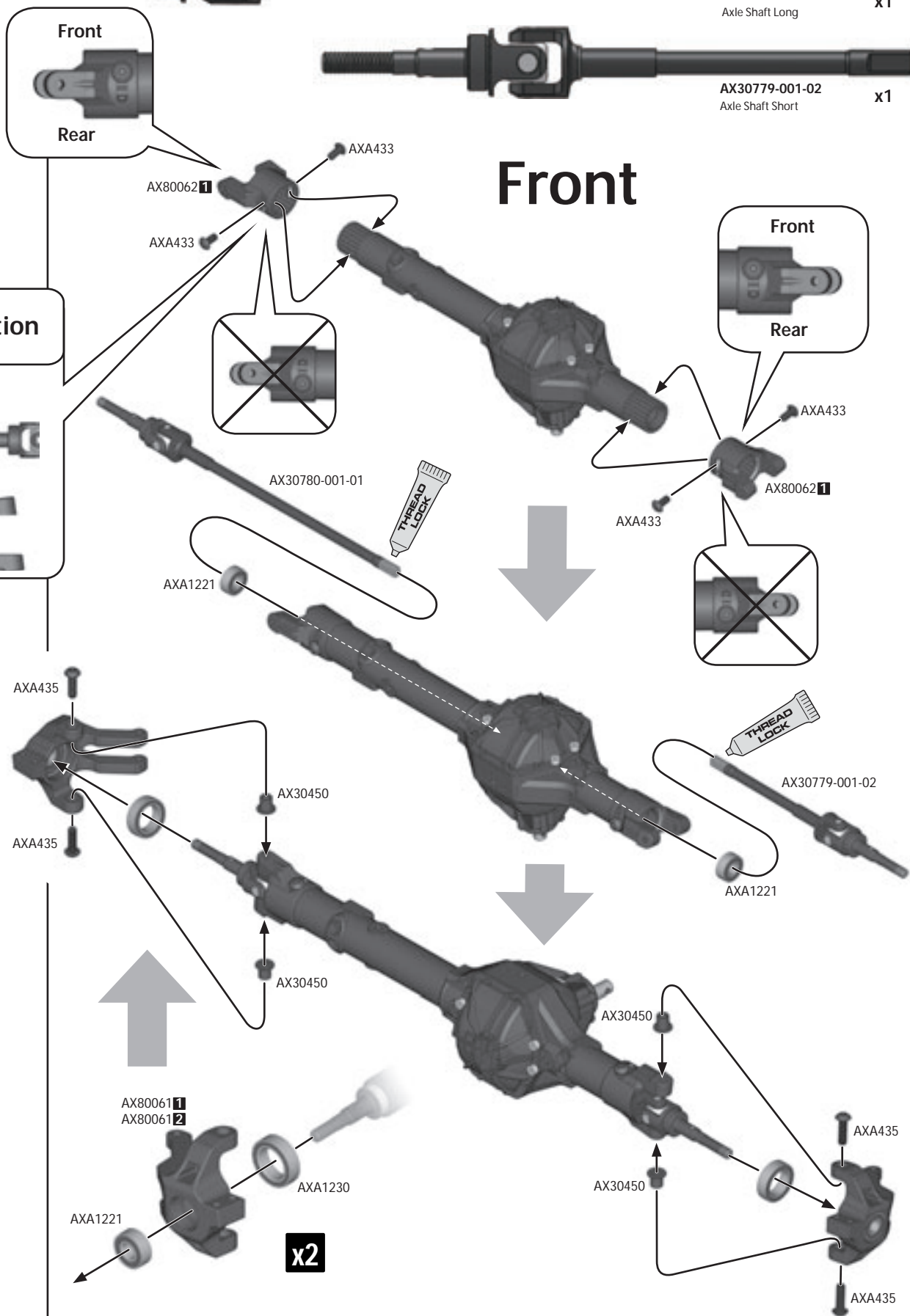


AXA435
M3x10mm **x4**



AX30450
Flange Pipe 3x4.5x5.5 **x4**

3





AXA433
M3x6mm

x4



AXA1221
Bearing 5x11x4mm

x2

4

Rear

AXA1221

AX30776



AX30776

AXA1221

AXA433

AX80071¹

AXA433

Option Parts



AX30789
Rear Straight Axle Aluminum Adapter



AX30776
Straight Axle Shaft 6x104.2mm

x1



AX30776
Straight Axle Shaft 6x160.2mm

x1

AXA433

AX80071²

AXA433



AXA1052
M3 Thin Nylon Locking Hex Nut **x4**



AXA464
M3x8mm **x2**



AXA087
M3x16mm **x4**



AXA0439
M3x20mm **x1**

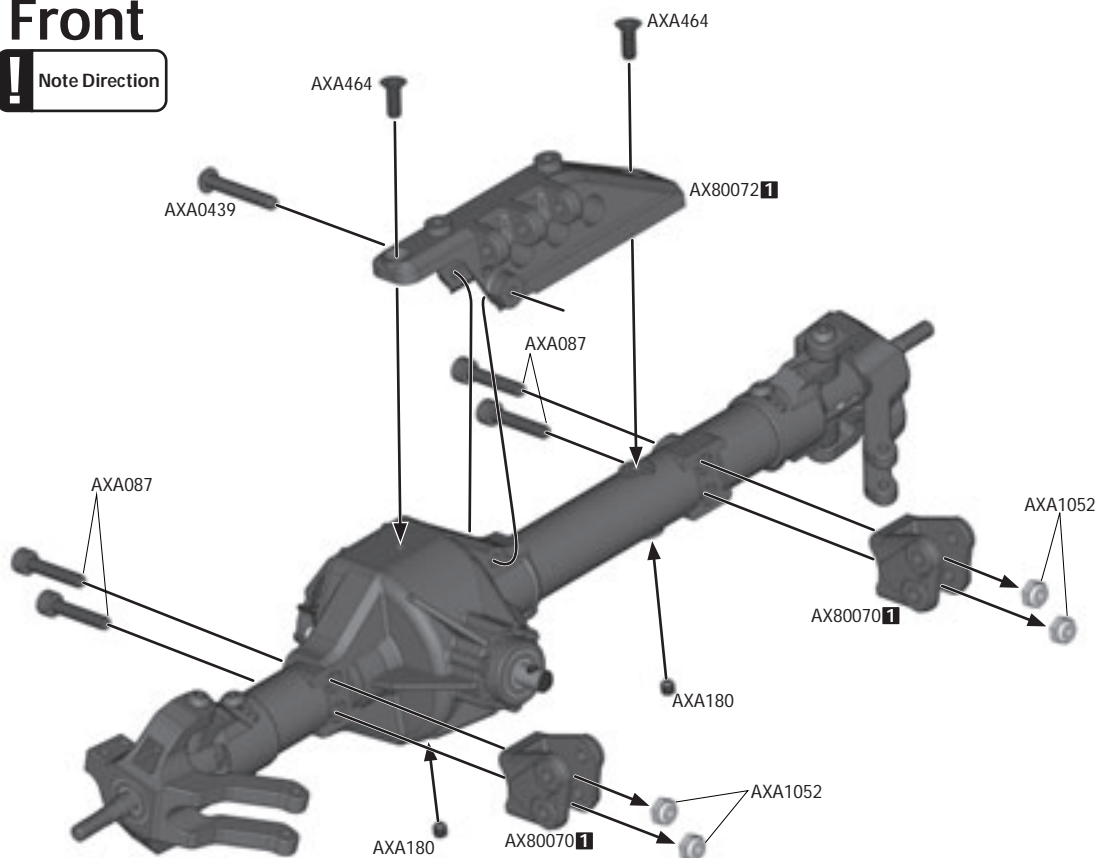


AXA180
M3x3mm **x2**

5 Front



Note Direction



AXA1052
M3 Thin Nylon Locking Hex Nut **x4**



AXA464
M3x8mm **x2**



AXA087
M3x16mm **x4**



AXA0439
M3x20mm **x1**

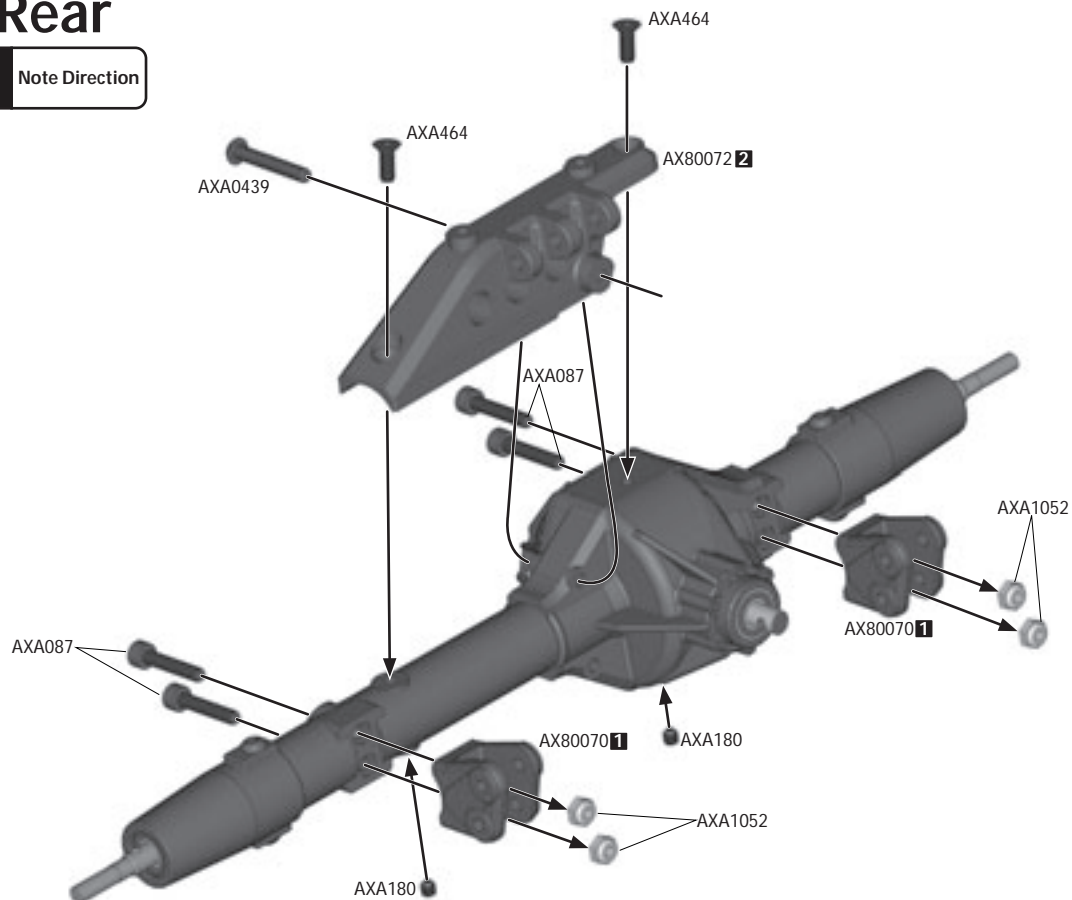


AXA180
M3x3mm **x2**

6 Rear



Note Direction



B**Open Bag B****7**

AXA1041
M2.5 Nylon Lock Nut **x4**



AX30113
Rubber Bump Stop 3.6x7x4 **x4**



AXA1202
O-Ring 3.5x2mm **x8**



AXA1184
O-Ring 7.5x1.5mm **x4**



AX30112
Shock Diaphragm 13x4.5mm **x4**



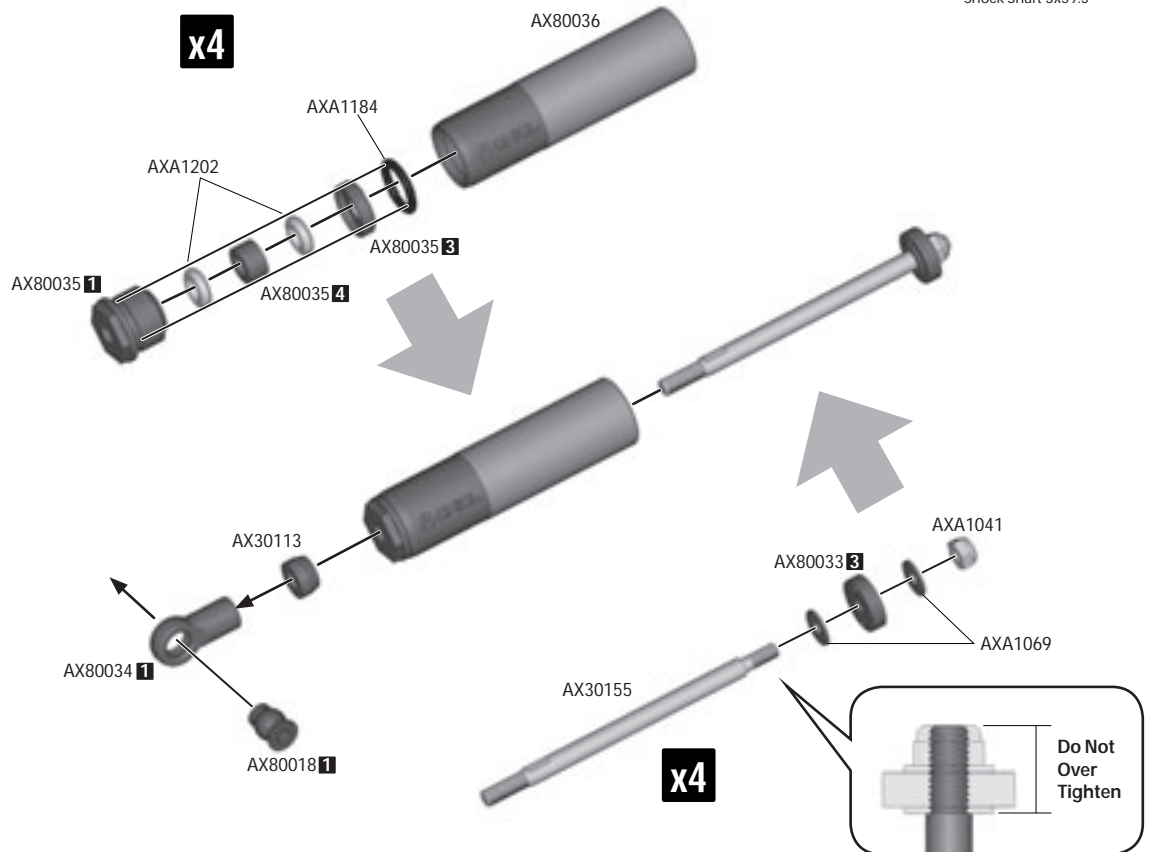
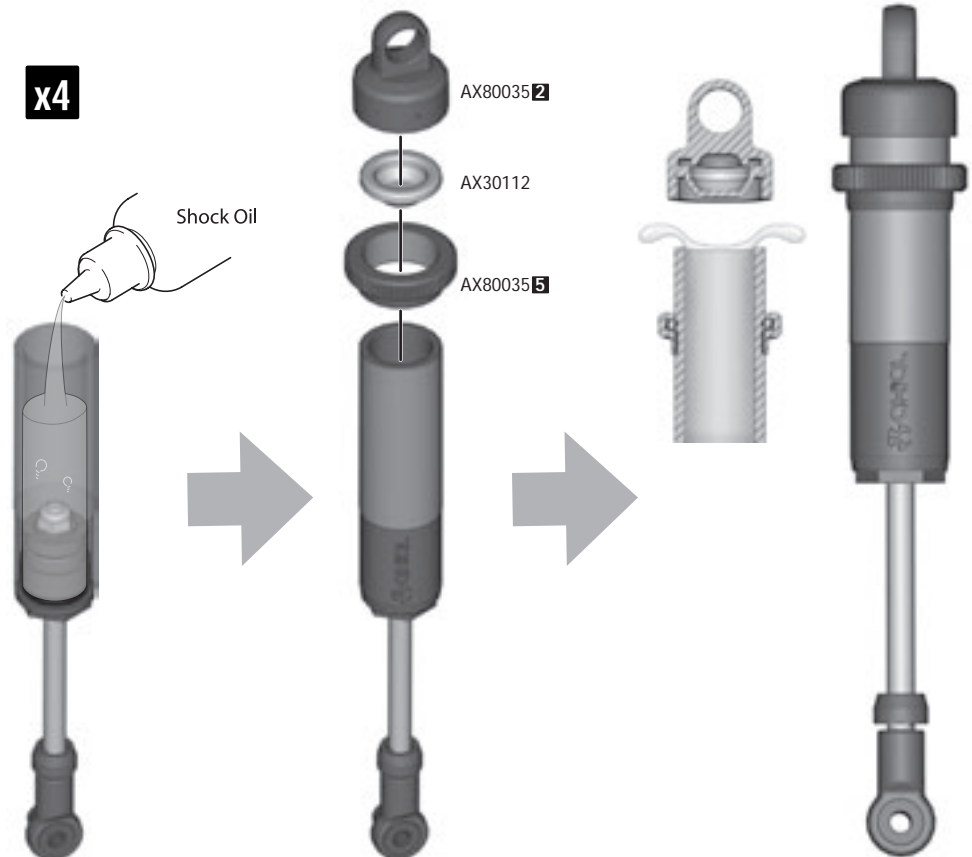
AX80018
Hardware Parts Tree **x4**



AXA1069
WASHER 2.7x6.7x0.5 **x8**



AX30155
Shock Shaft 3x59.5 **x4**

**8****x4**



AXA1356
Silicone Shock Bushing 7.5x8mm **x4**

9



AX30218
Spring 14x70mm - Super Soft **x4**



AX80034 **4**

AX30218

x4



AXA1356

Option Parts



AX30218
Spring 14x70mm 2.07 lbs-in - Super Soft

AX30219
Spring 14x70mm 2.47 lbs-in - Soft

AX30220
Spring 14x70mm 2.85 lbs-in - Medium

AX30221
Spring 14x70mm 2.85 lbs-in - Medium

AX30222
Spring 14x70mm 3.55 lbs-in - Super Firm

C

Open Bag C

10



AX30463
Universal Joint Axle Pin holder **x4**



AX30166
Pin 1.5x11mm **x4**



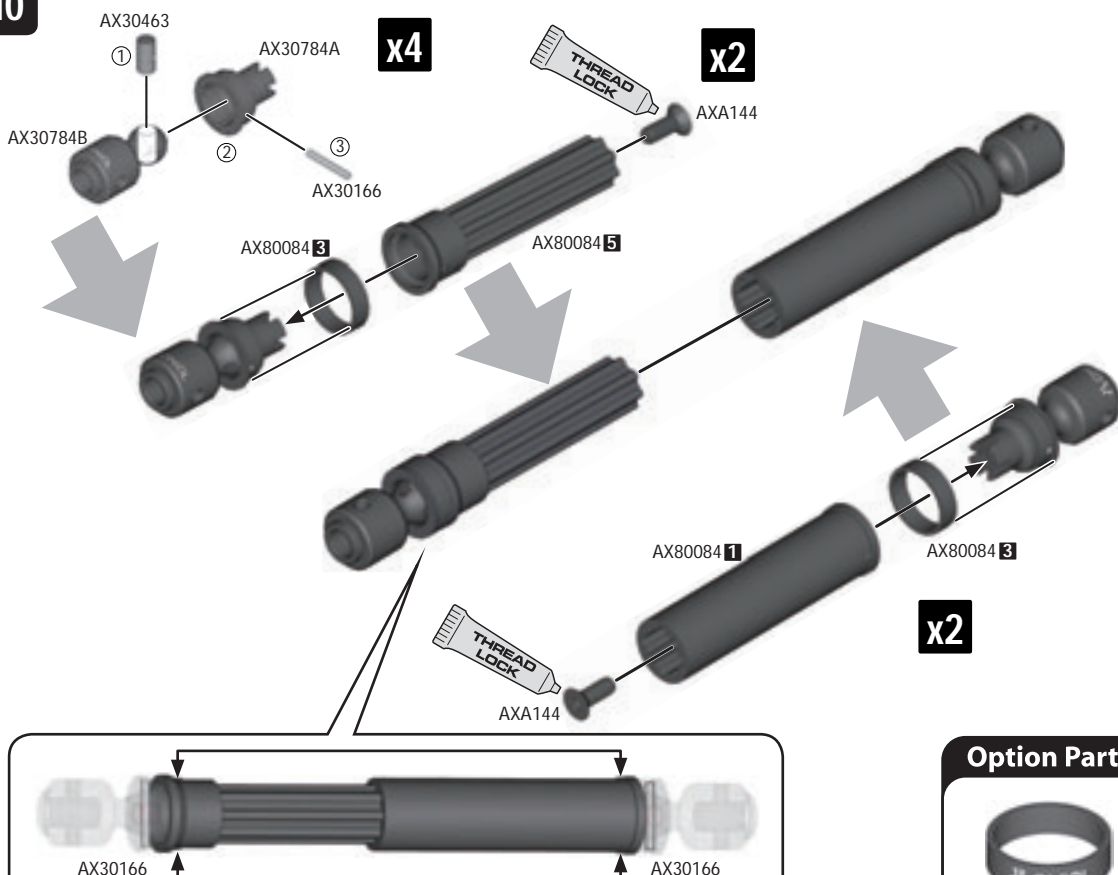
AXA144
M3x8mm **x4**



AX30784A
Drive Shaft Coupler **x4**



AX30784B
Drive Shaft Output **x4**



AX30166

AX80084 **1**

x2

AX80084 **3**

AXA144



AXA144 **x2**

! Note : Align marks when installing

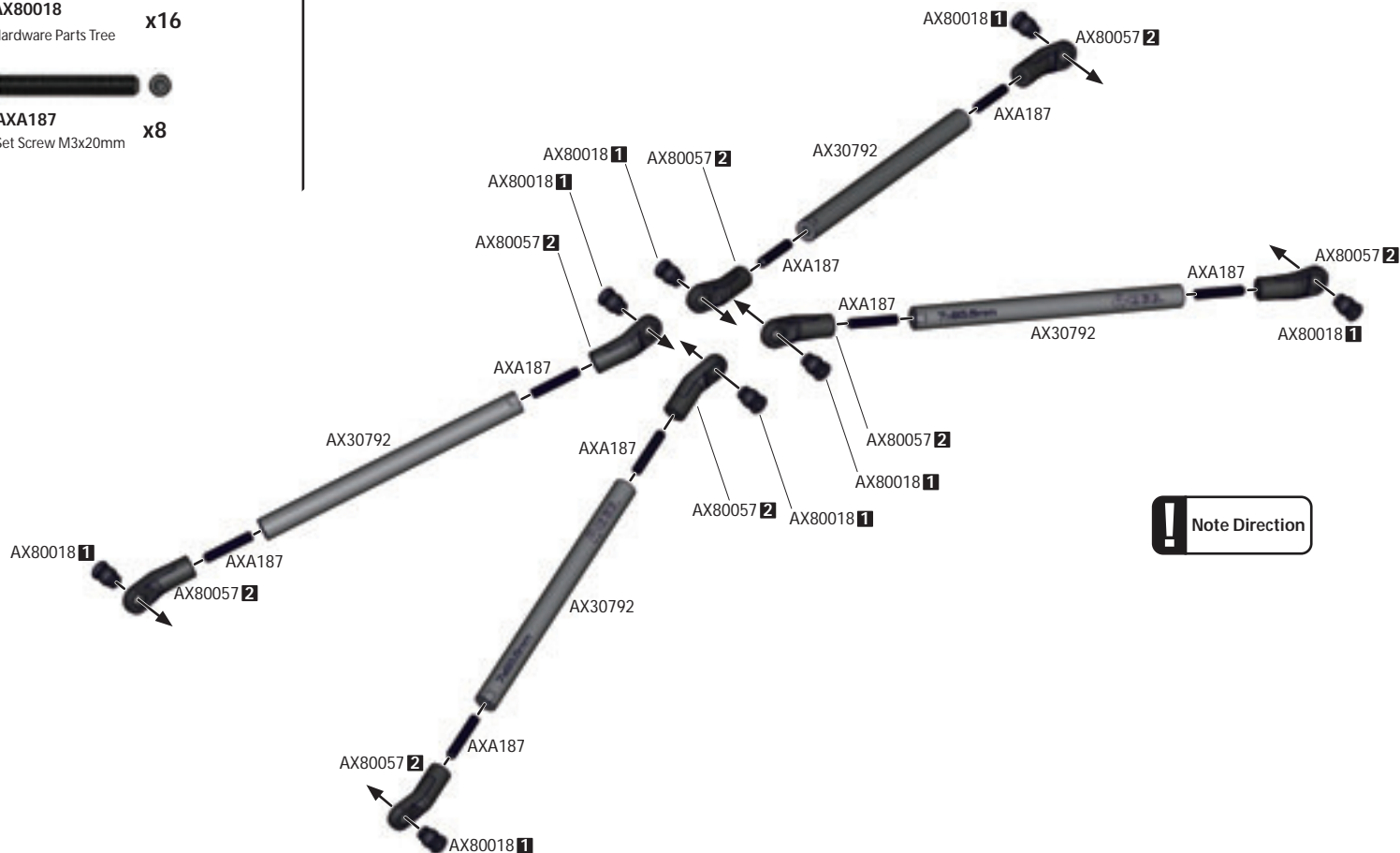
Option Parts



AX30786
WB8 Driveshaft Retainer Ring

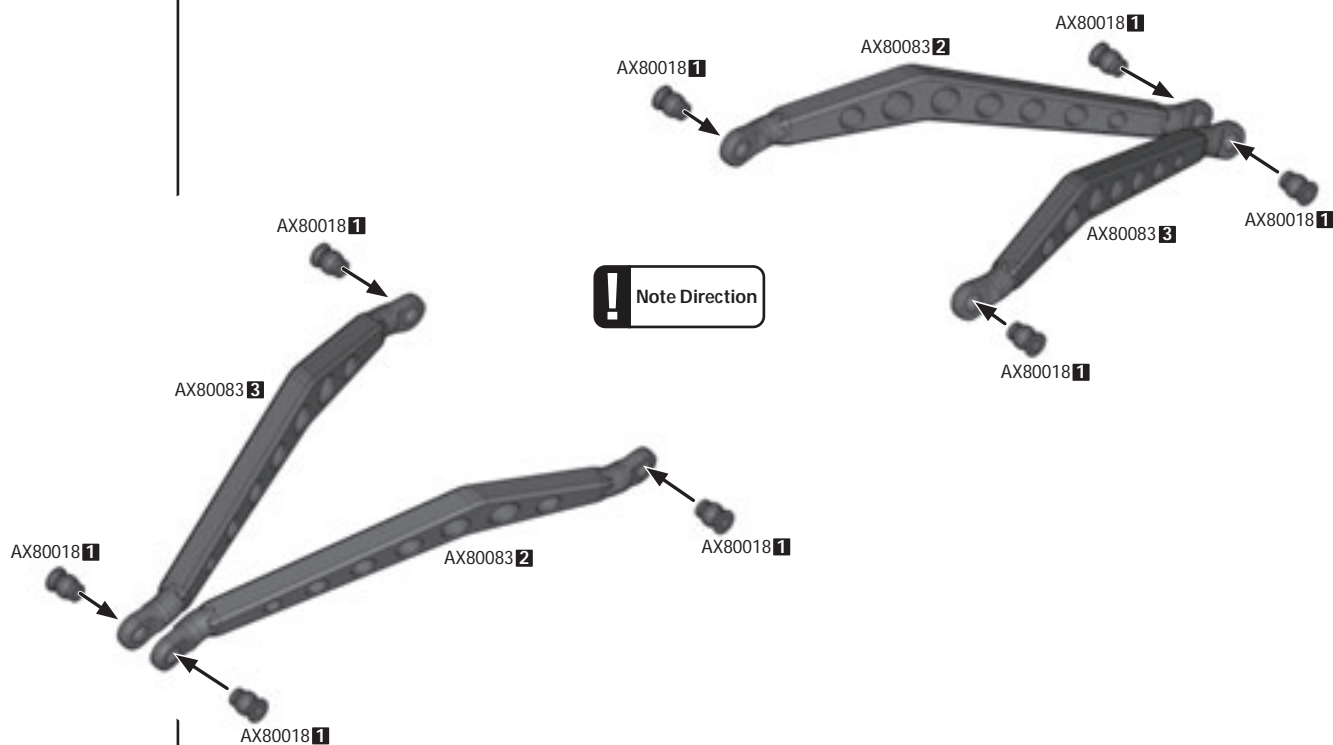


11



Note Direction

12



Note Direction



AXA175
Screw Shaft M3x2.5x11mm **x1**

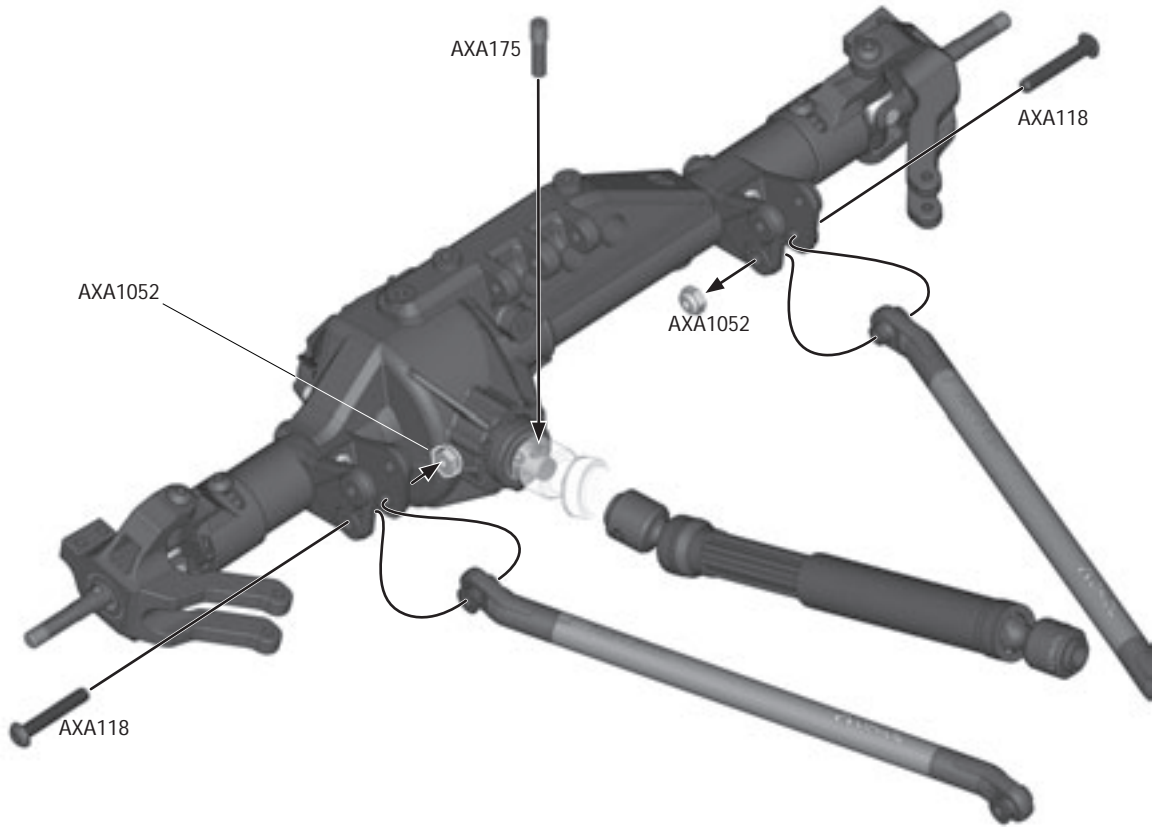


AXA1052
M3 Thin Nylon Locking Hex Nut (BLACK) **x2**



AXA118
M3x18mm **x2**

13 Front



AXA1052
M3 Thin Nylon Locking Hex Nut (BLACK) **x2**



AXA1053
M3 Nylon Locking Hex Nut (BLACK) **x1**

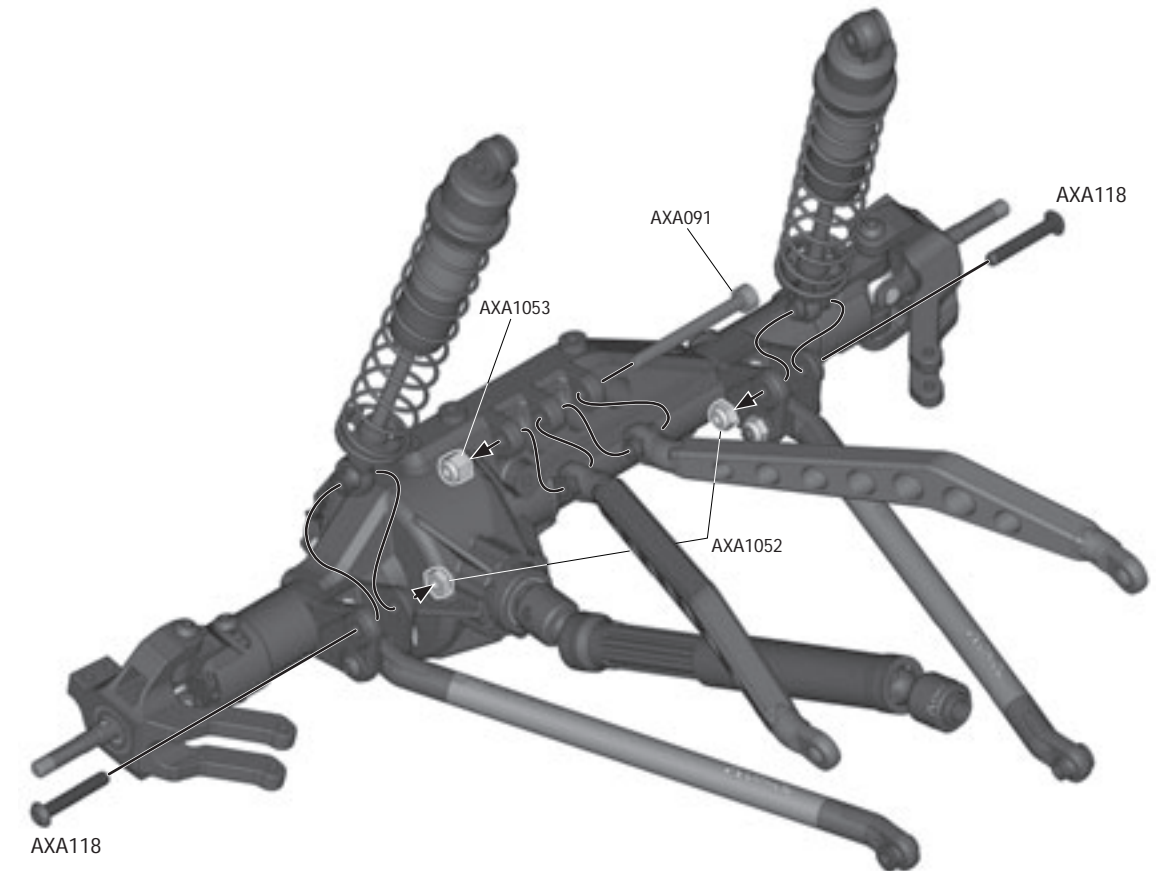


AXA118
M3x18mm **x2**



AXA091
M3x30mm **x1**

14 Front





AXA434
M3x8mm **x2**



AXA435
M3x10mm **x4**

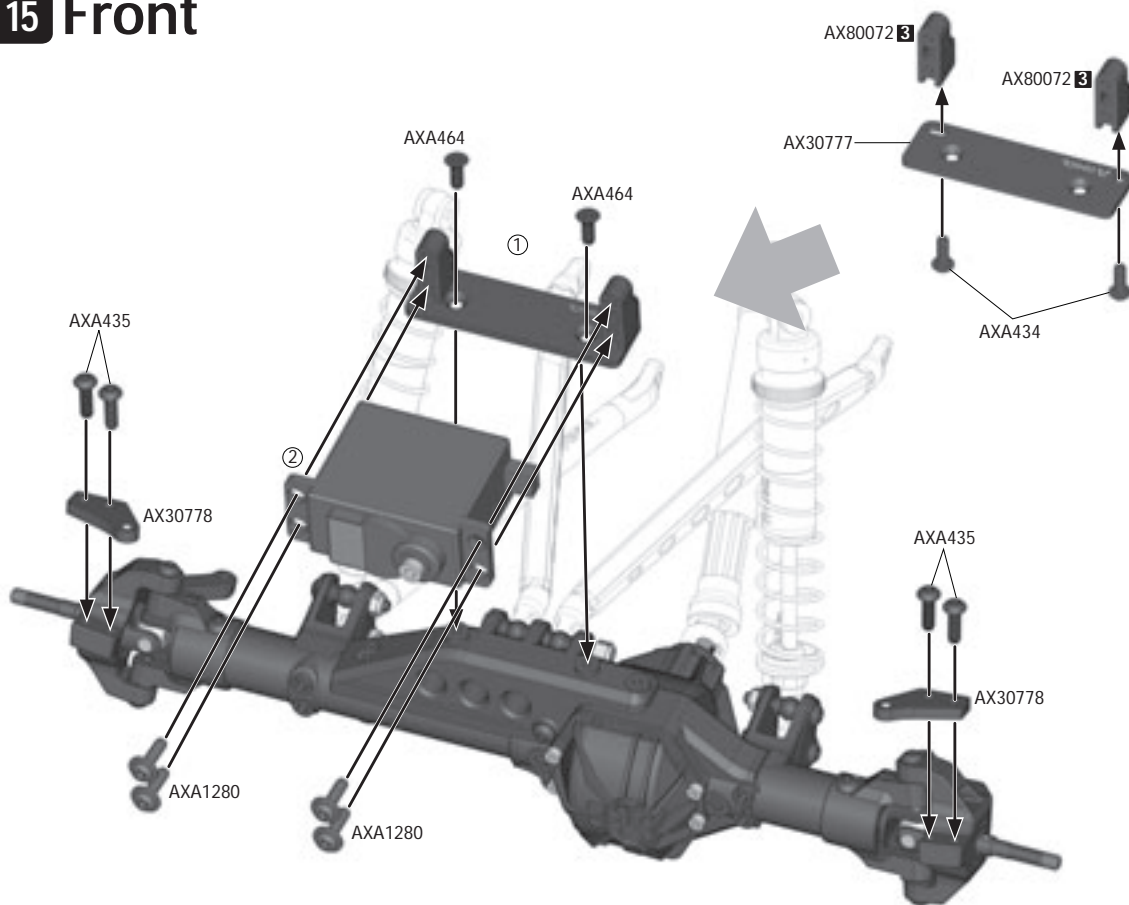


AXA464
M3x8mm **x2**



AXA1280
M3x10mm Servo Flange Screw **x4**

15 Front



AXA1070
Washer 3x6x0.5 mm **x1**



AXA1052
M3 Thin Nylon Locking Hex Nut (BLACK) **x2**



AXA1053
M3 Nylon Locking Hex Nut (BLACK) **x1**



AX80018
Hardware Parts Tree **x4**



AXA0113
M3x6mm **x1**

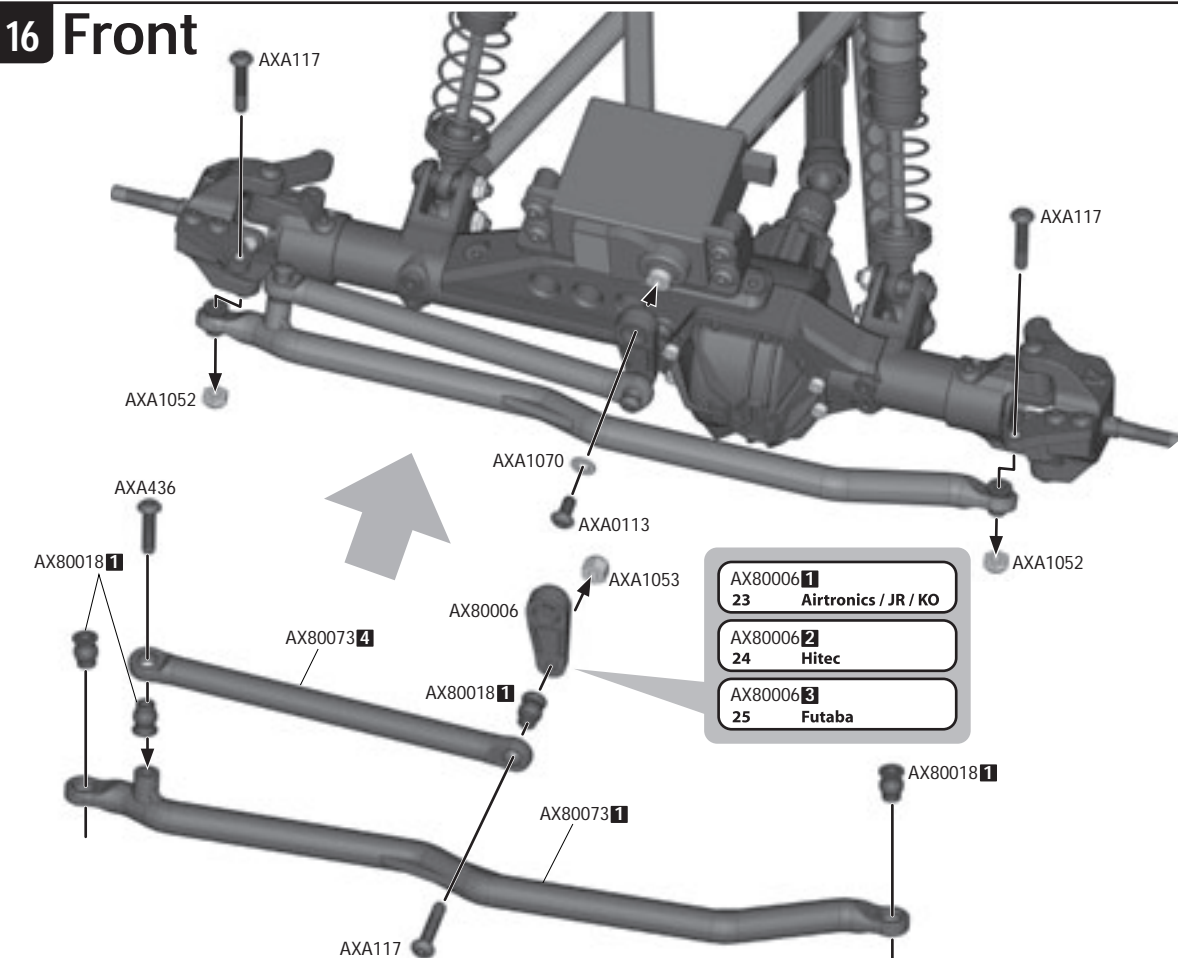


AXA436
M3x12mm **x1**



AXA117
M3x15mm **x3**

16 Front

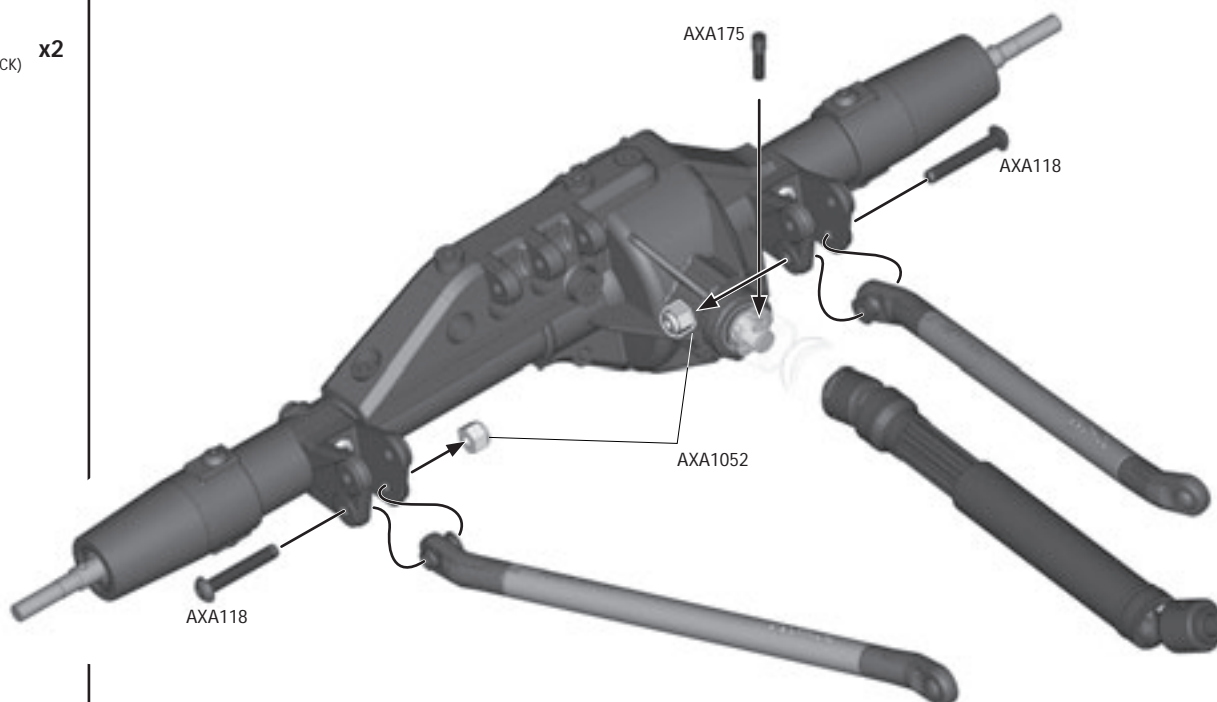


AXA175
Screw Shaft M3x2.5x11mm **x1**

AXA1052
M3 Thin Nylon Locking Hex Nut (BLACK) **x2**

AXA118
M3x18mm **x2**

17 Rear



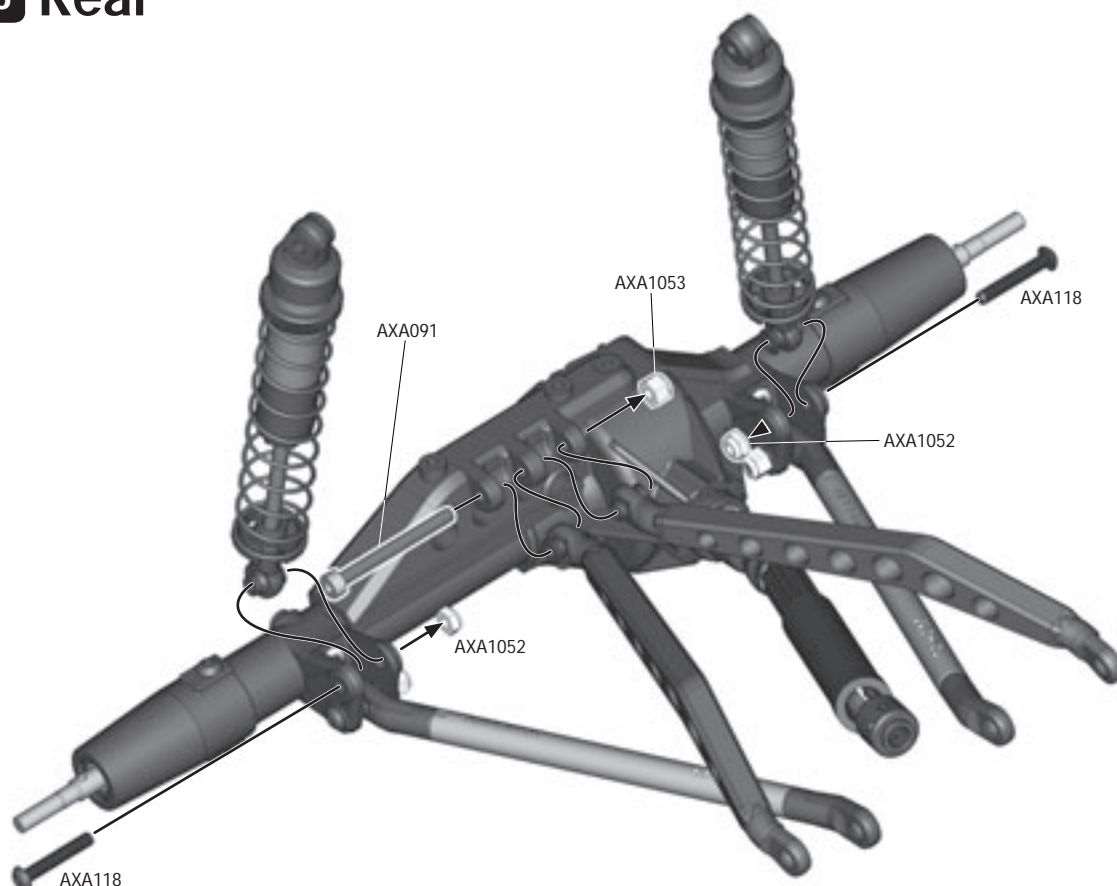
AXA1052
M3 Thin Nylon Locking Hex Nut (BLACK) **x2**

AXA1053
M3 Nylon Locking Hex Nut (BLACK) **x1**

AXA118
M3x18mm **x2**

AXA091
M3x30mm **x1**

18 Rear



D

Open Bag D

19

AX30162
Pin 1.5x8mm x1



AX30394
20T Drive Gear x1



AX30198
Slipper Drive gear Shaft 5x53.5 x1



AX30190
Shaft 5x18 x1



AXA1218
Bearing 5x10x4mm x4



AXA1225
Bearing 8x16x5mm x1



AXA1243
Bearing 15x21x4mm x1



AX30437
Dig Lockout Shaft x1



AX30435
Steel Outdrive Shaft x1



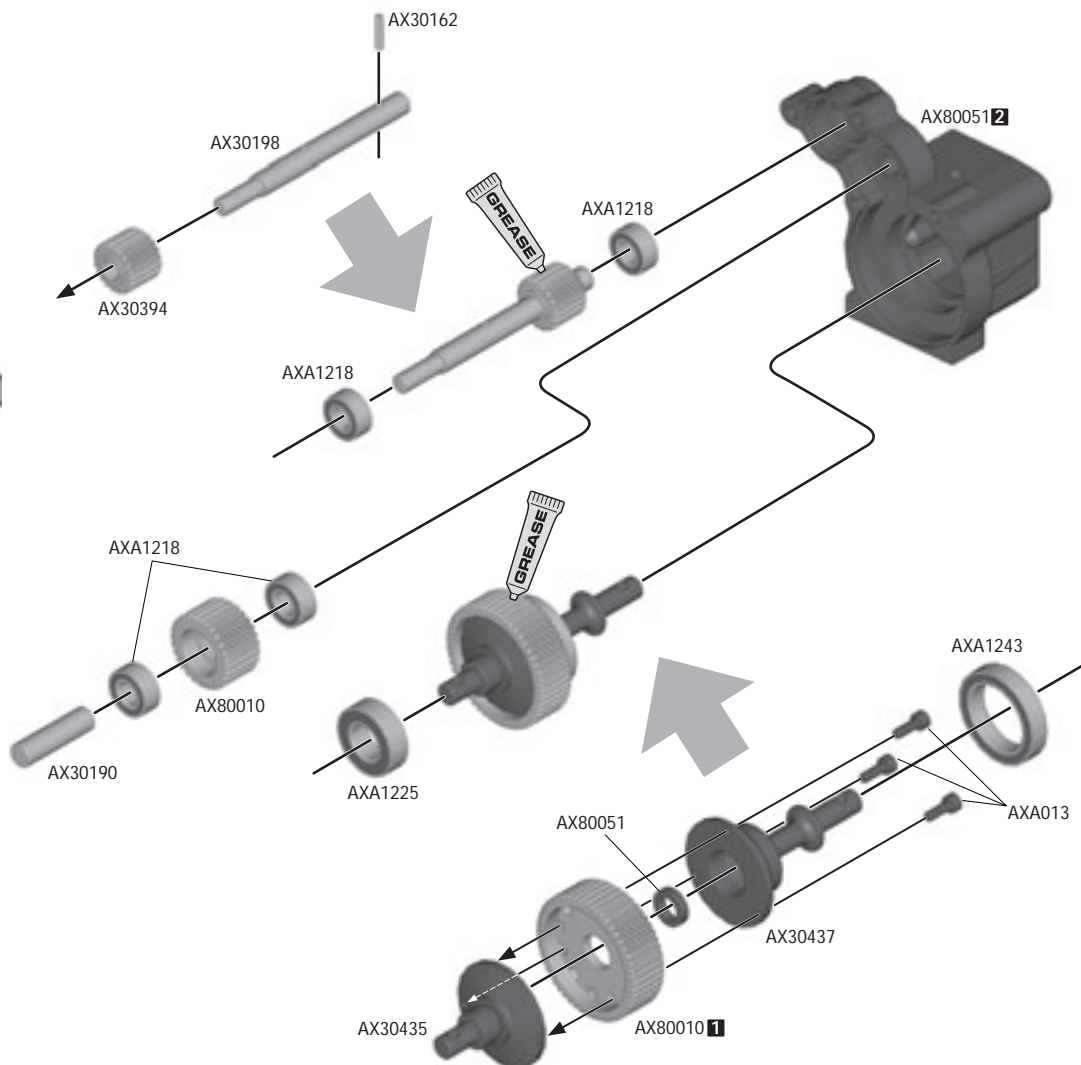
AXA013
M2x6mm x3



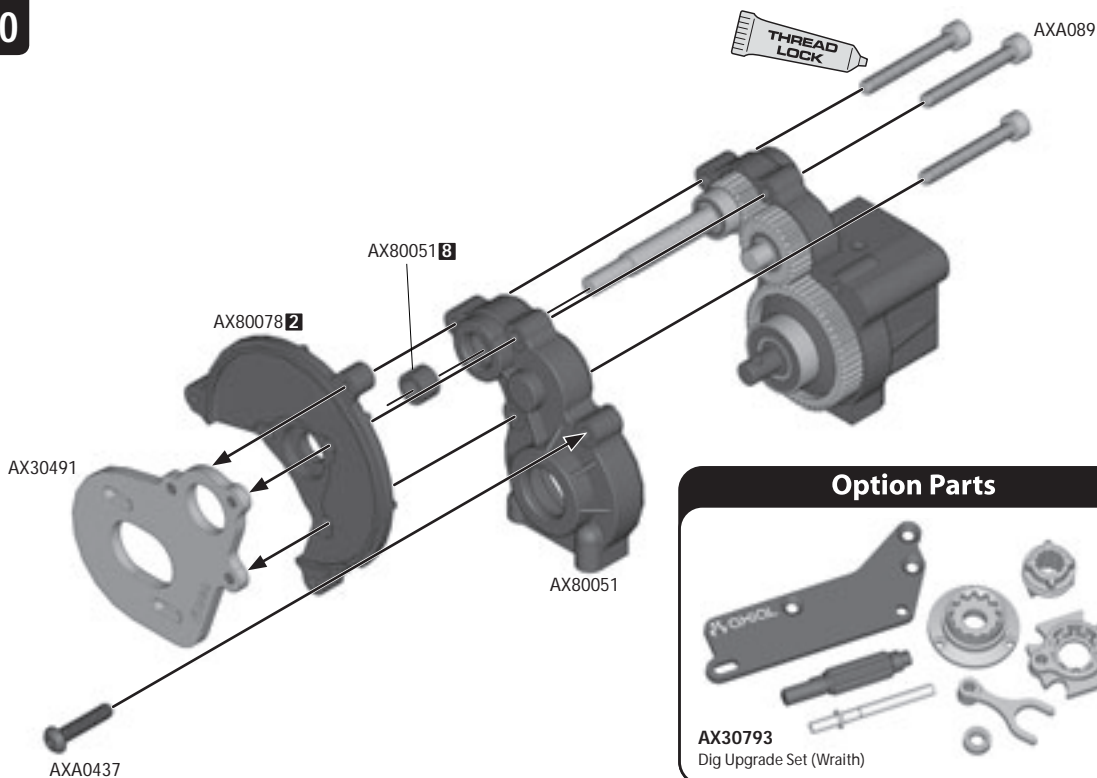
AXA0437
M3x15mm x1



AXA089
M3x25mm x3



20








Option Parts



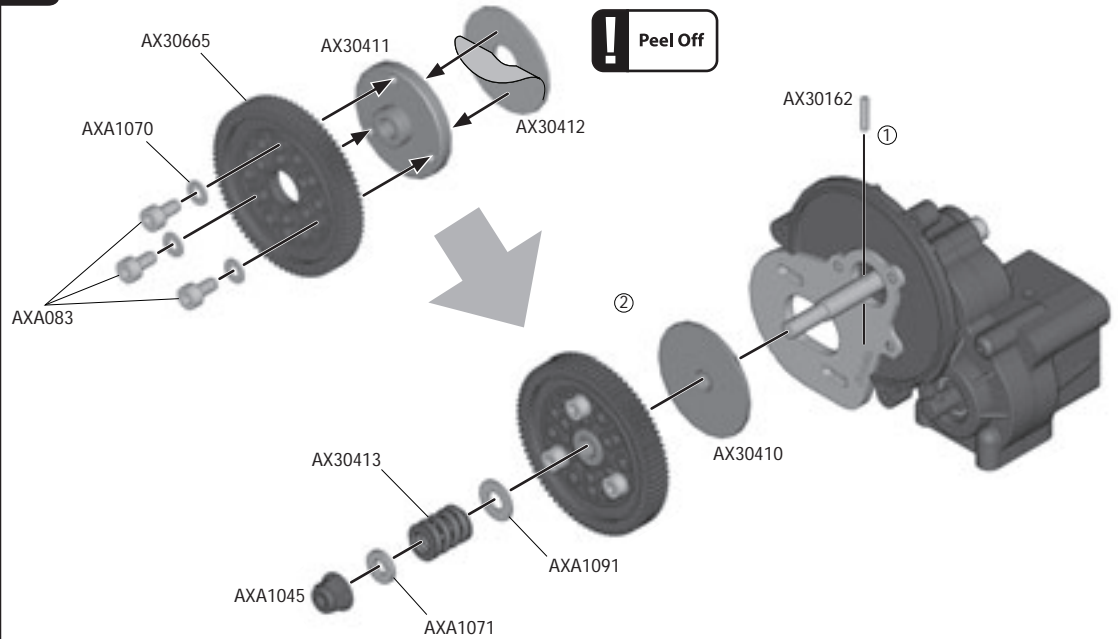
AX30793
Dig Upgrade Set (Wraith)

-  **AX30162**
Pin 1.5x8mm **x1**
-  **AXA1070**
Washer 3x6x0.5 mm **x5**
-  **AXA1071**
Washer 4x8x0.5mm **x1**
-  **AXA1091**
Washer 5x10x0.5mm **x1**
-  **AXA083**
M3x6mm **x5**
-  **AXA1045**
M4 Nylon Lock Nut (Black) **x1**
-  **AX30413**
Slipper spring **x1**

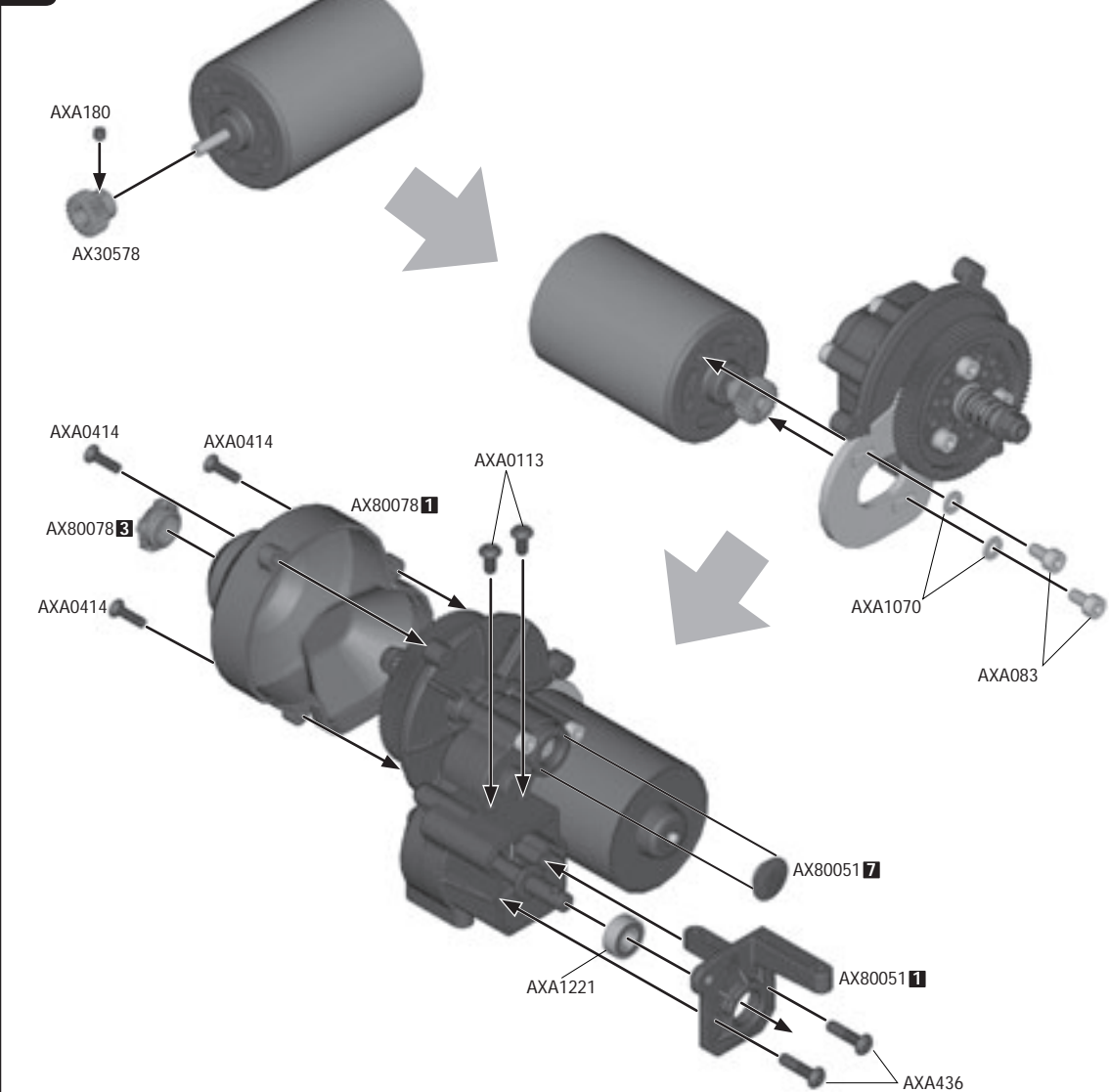
-  **AX30411**
Outer Slipper Plate **x1**
-  **AX30410**
Inner Slipper Plate **x1**
-  **AX30578**
Pinion 48DP 20T **x1**

-  **AXA1221**
Bearing 5x11x4mm **x1**
-  **AXA180**
M3x3mm **x1**
-  **AXA0113**
M3x6mm **x2**
-  **AXA436**
M3x12mm **x2**
-  **AXA0414**
M2.6x10mm **x3**

21



22





AXA175
Screw Shaft M3x2.5x11mm **x1**

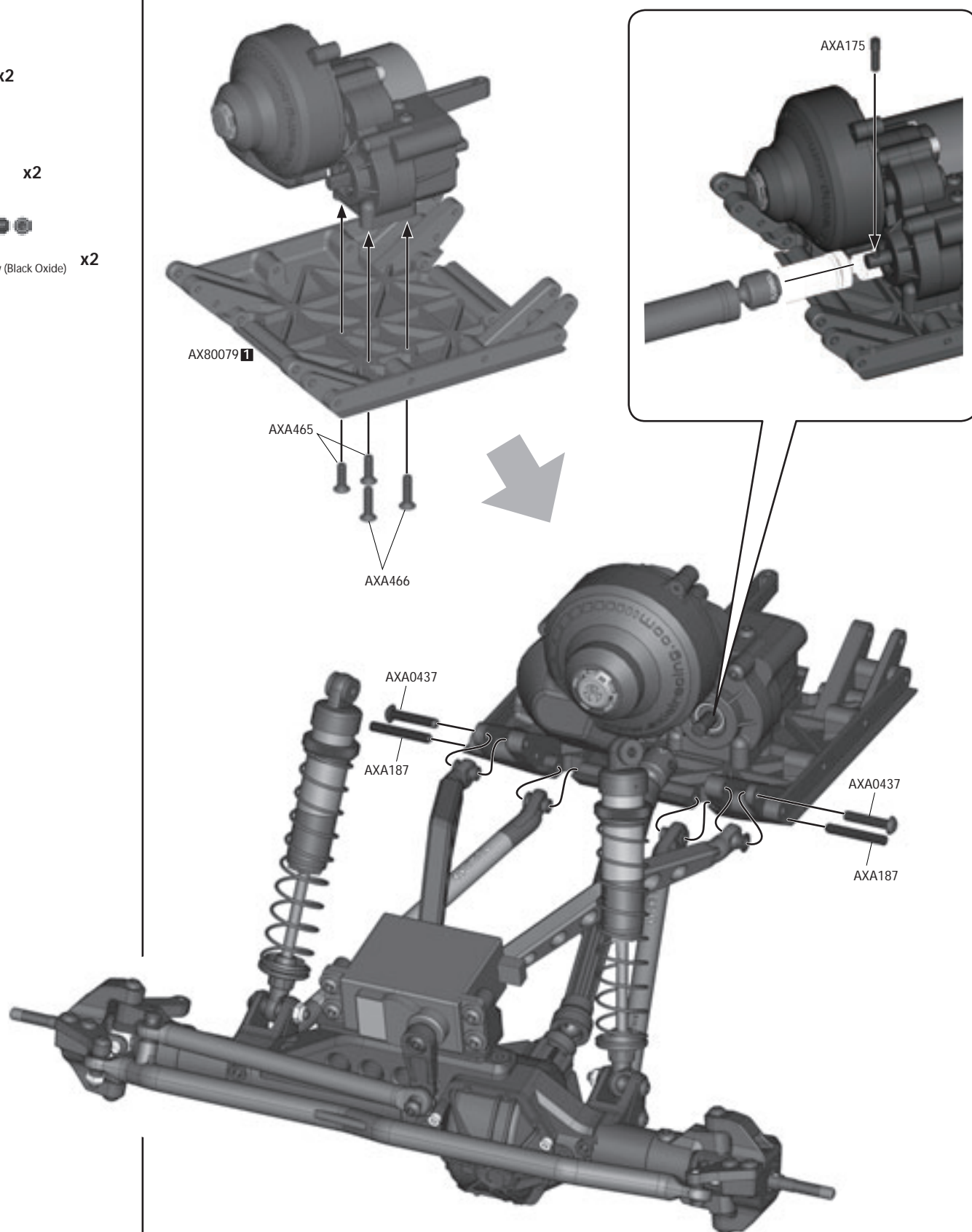
AXA465
M3x10mm **x2**

AXA466
M3x12mm **x2**

AXA0437
M3x15mm **x2**

AXA187
M3x20mm Set Screw (Black Oxide) **x2**

23 Front





AXA175
Screw Shaft M3x2.5x11mm **x1**

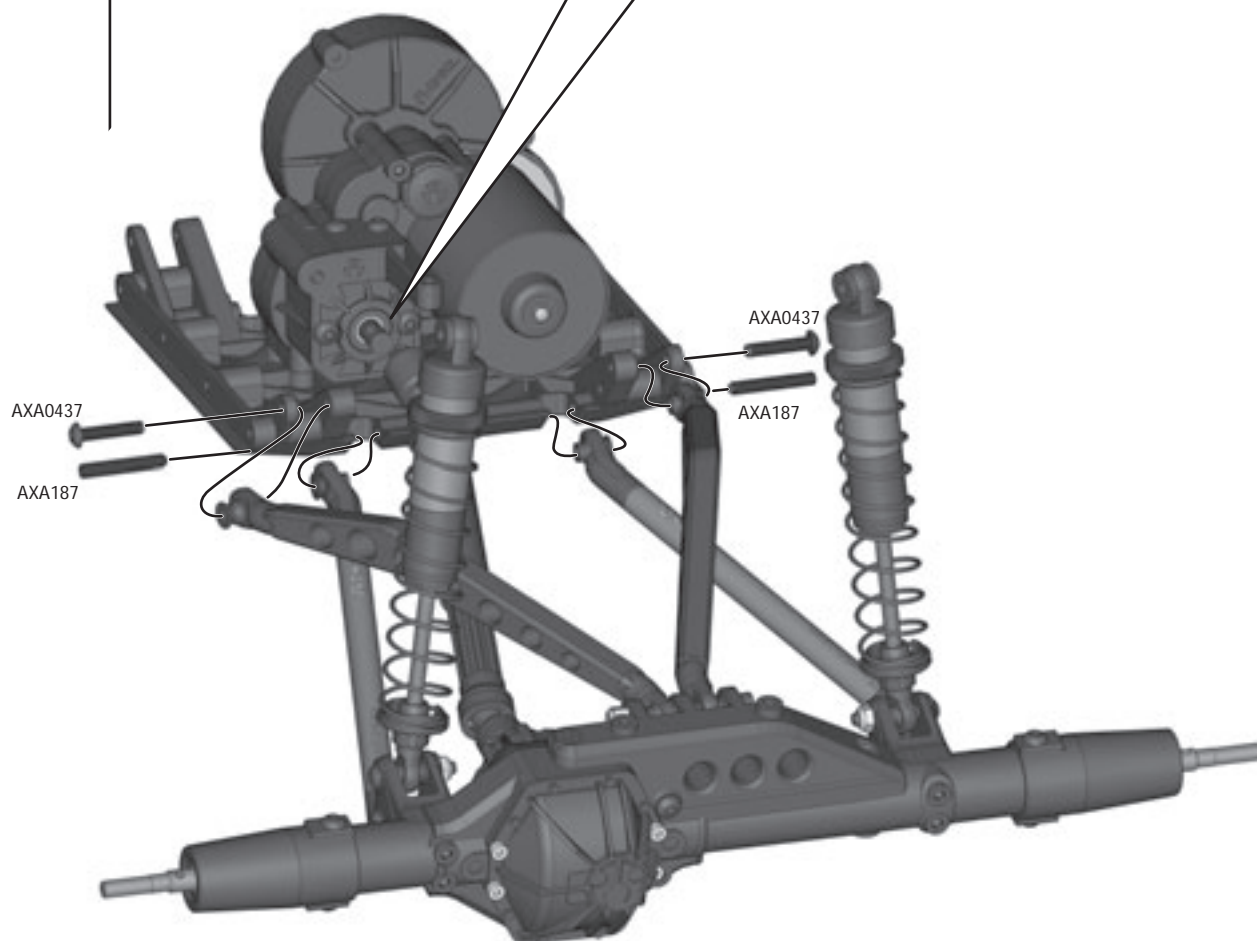
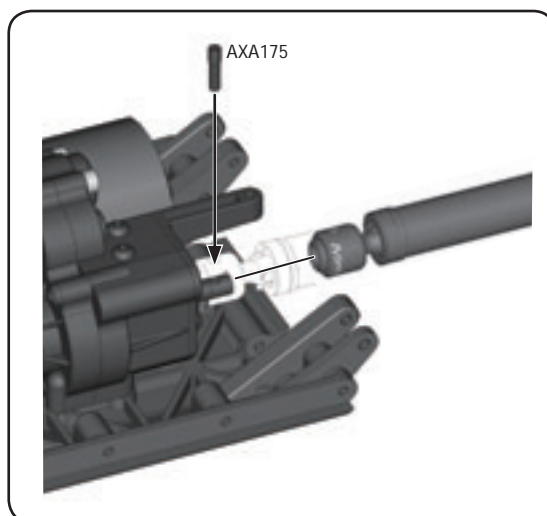


AXA0437
M3x15mm **x2**



AXA187
M3x20mm Set Screw (Black Oxide) **x2**

24 Rear



E

Open Bag E

25

AXA013
M2x6mm

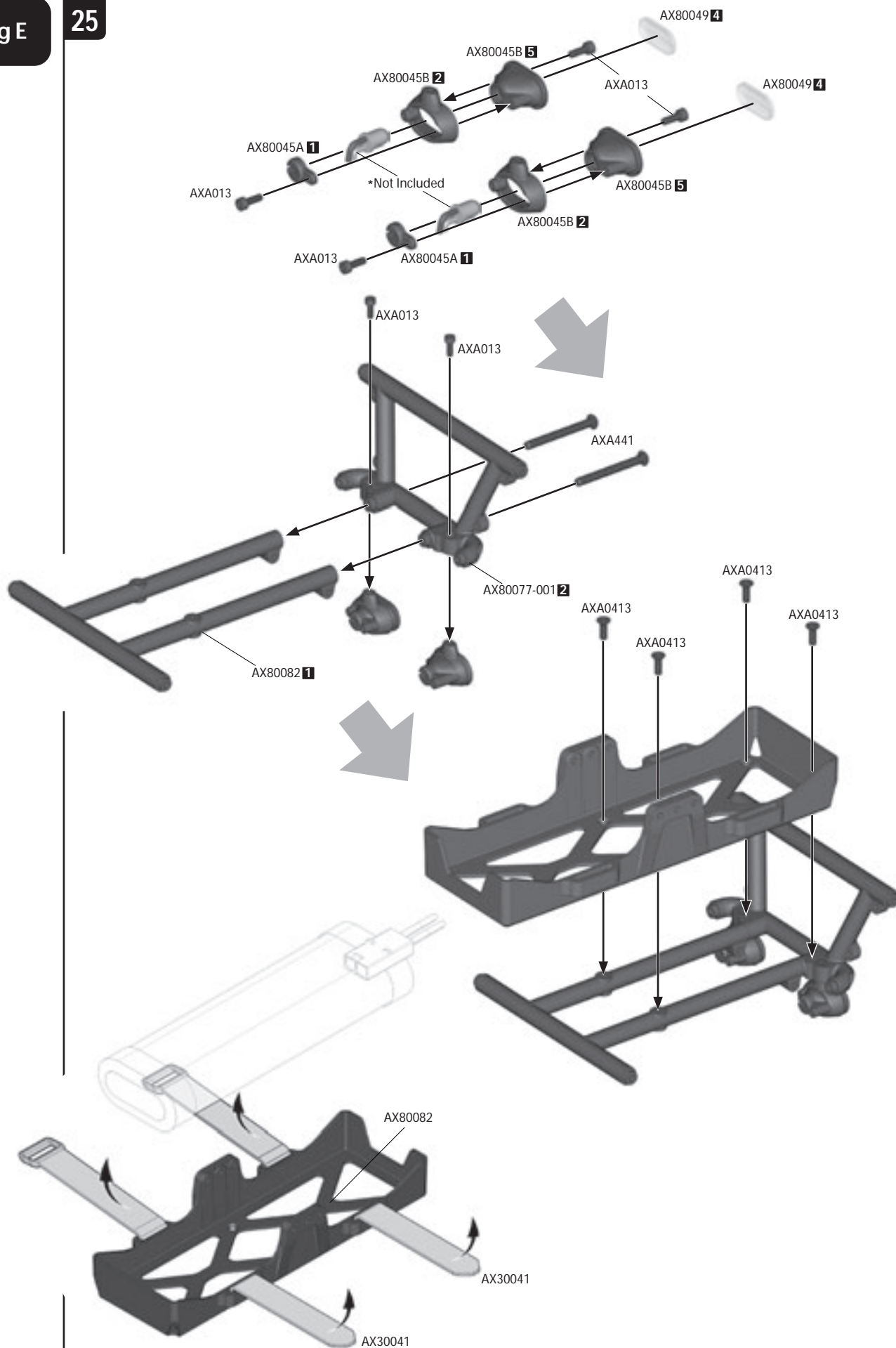
x6

AXA0413
M2.6x8mm

x4

AXA441
M3x30mm

x2





AXA0437
M3x15mm

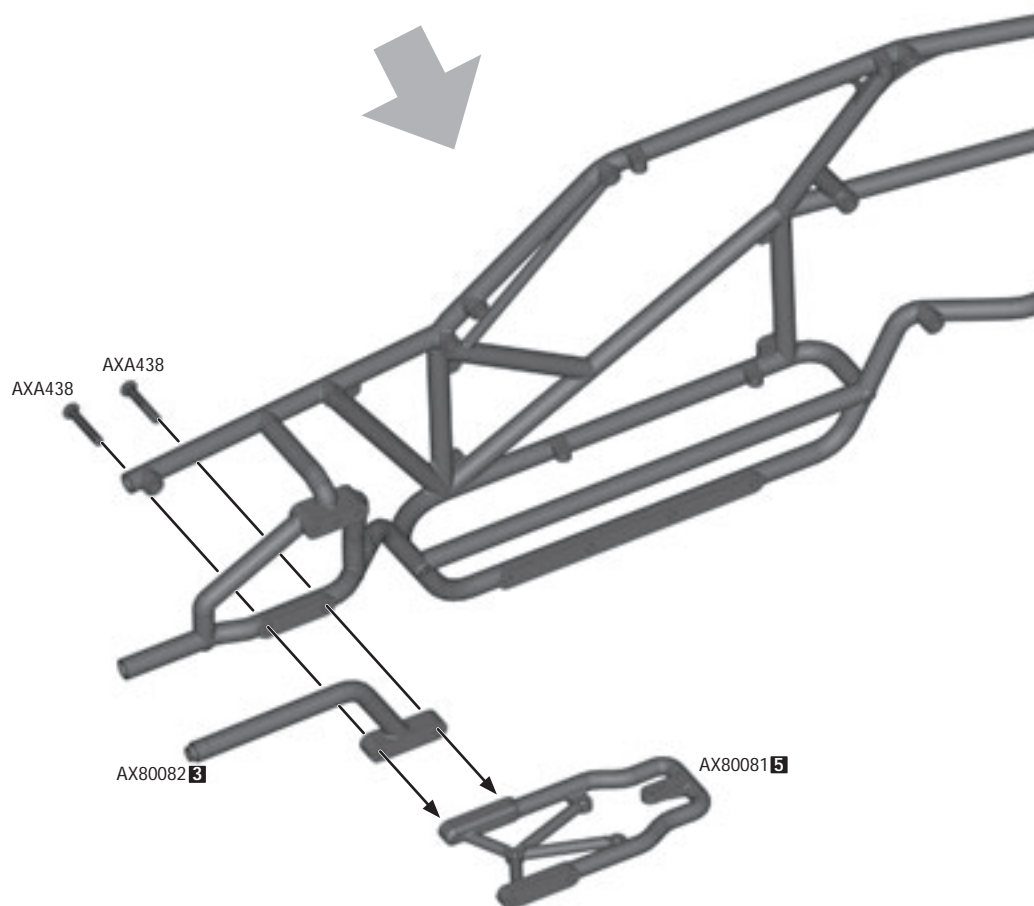
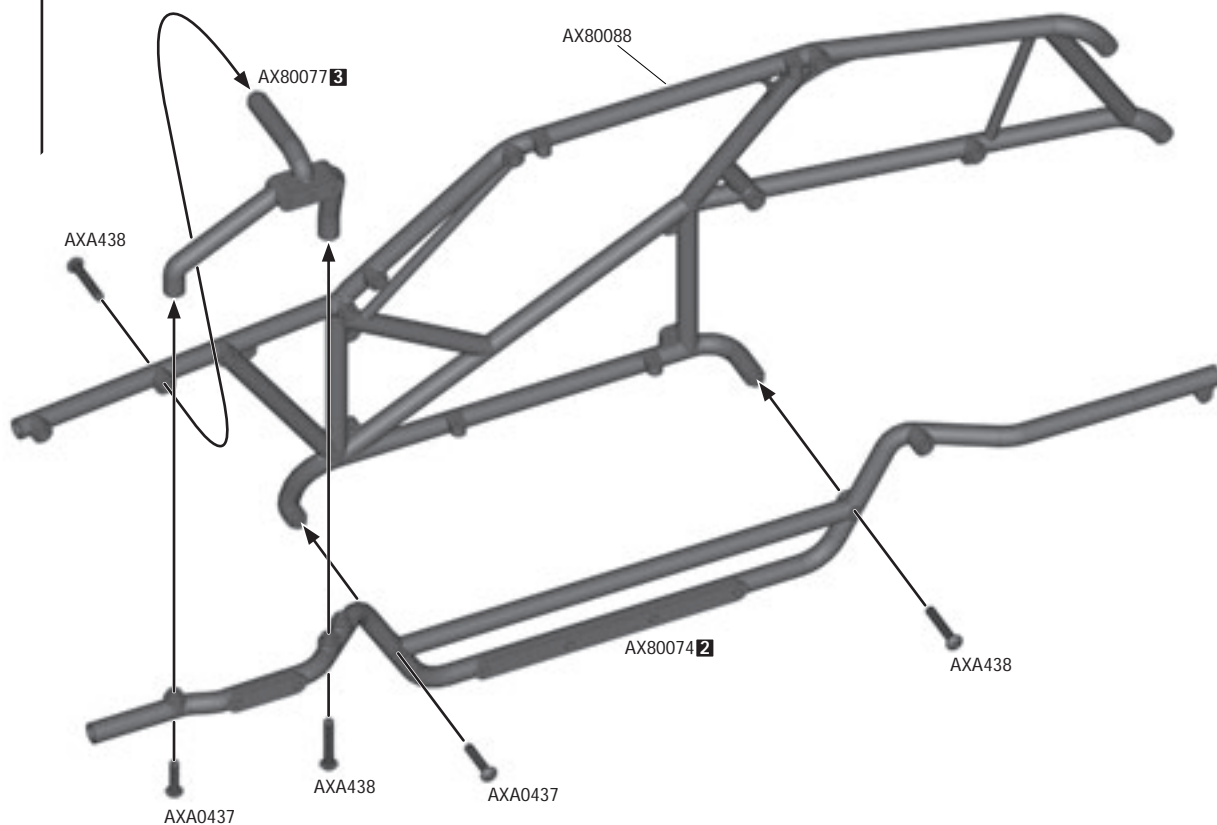
x2



AXA438
M3x18mm

x5

26 Left





AXA0437
M3x15mm

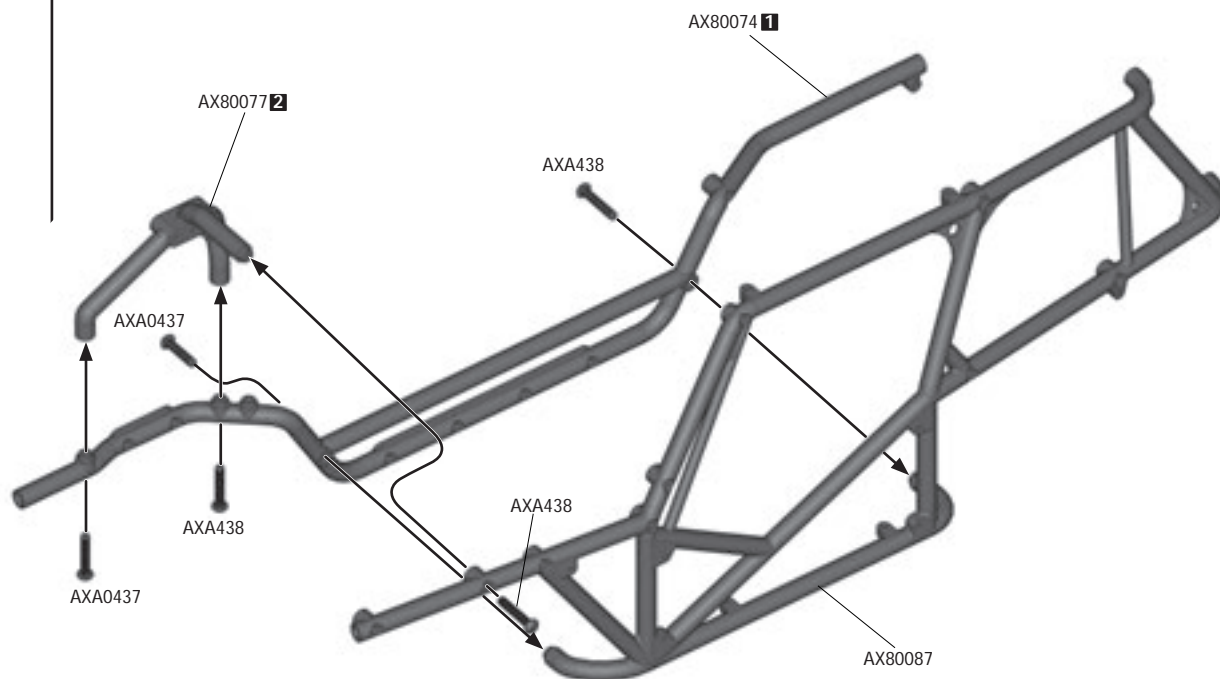
x2



AXA438
M3x18mm

x3

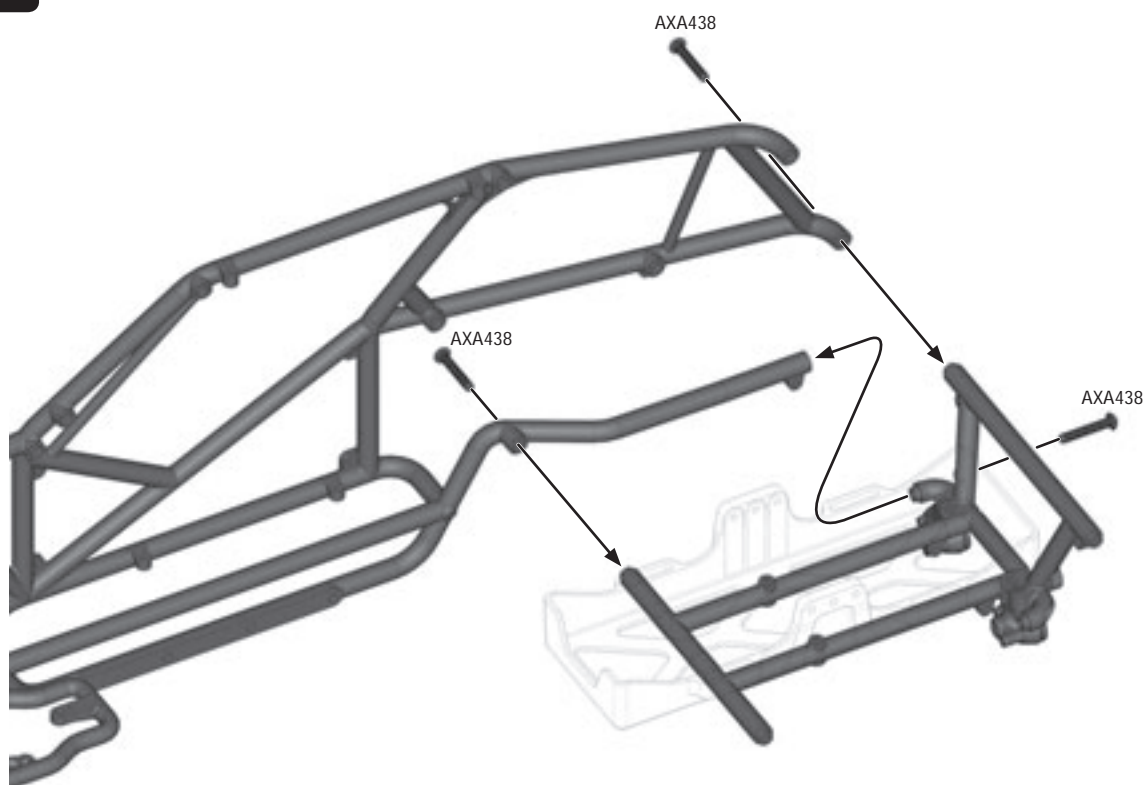
27 Right



AXA438
M3x18mm

x3

28

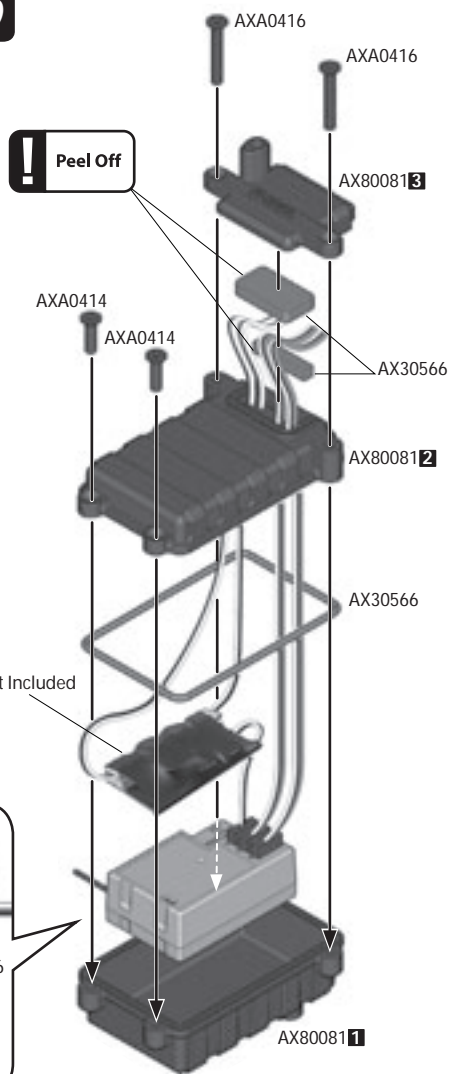


AXA0414
M2.6x10mm **x3**

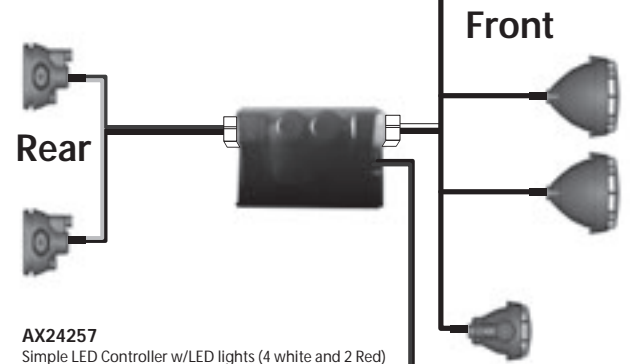
AXA0416
M2.6x18mm **x2**

AXA0412
M2.6x6mm **x3**

AXA180
M3x3mm **x1**

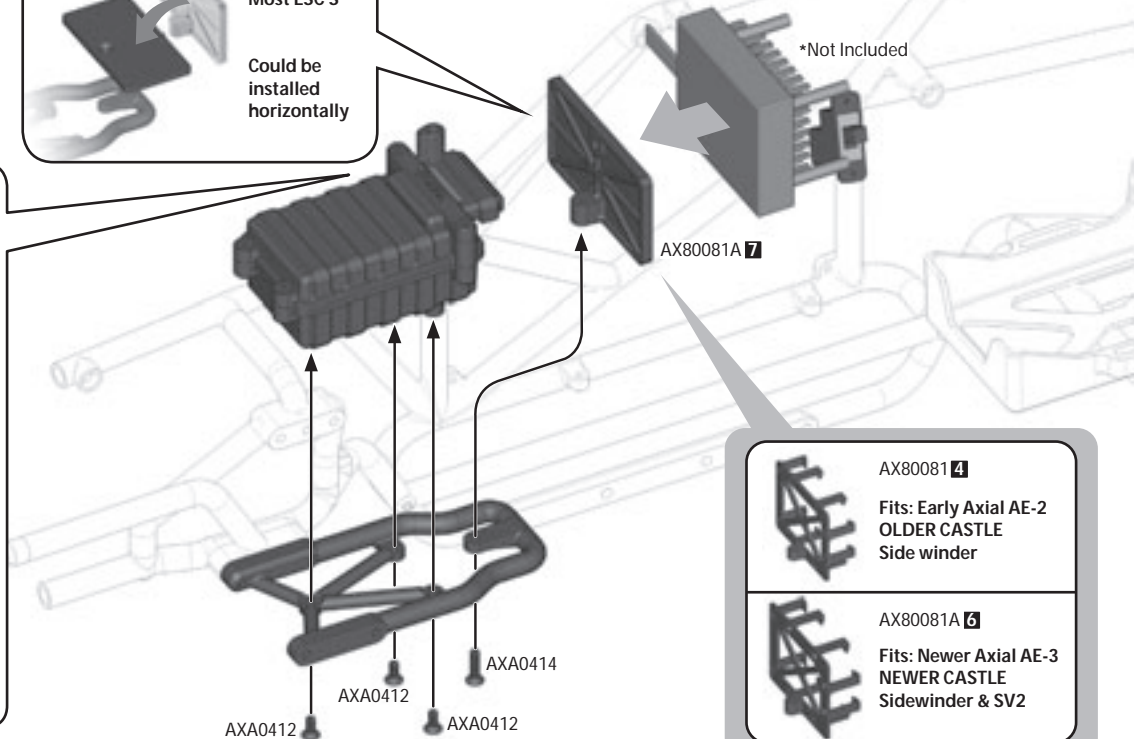
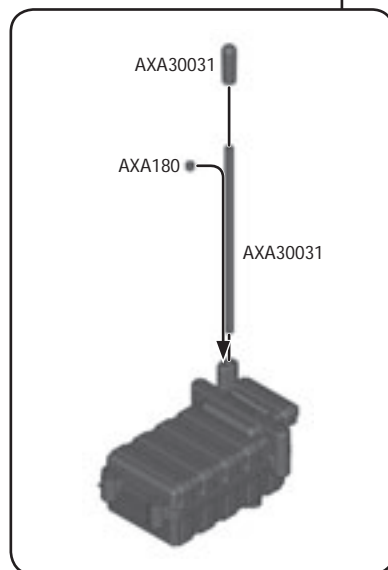
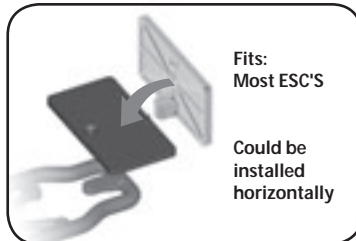
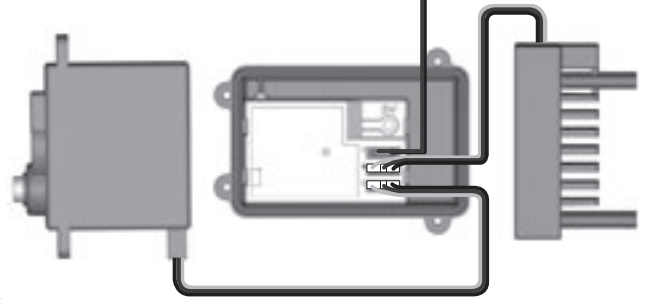


*Not Included

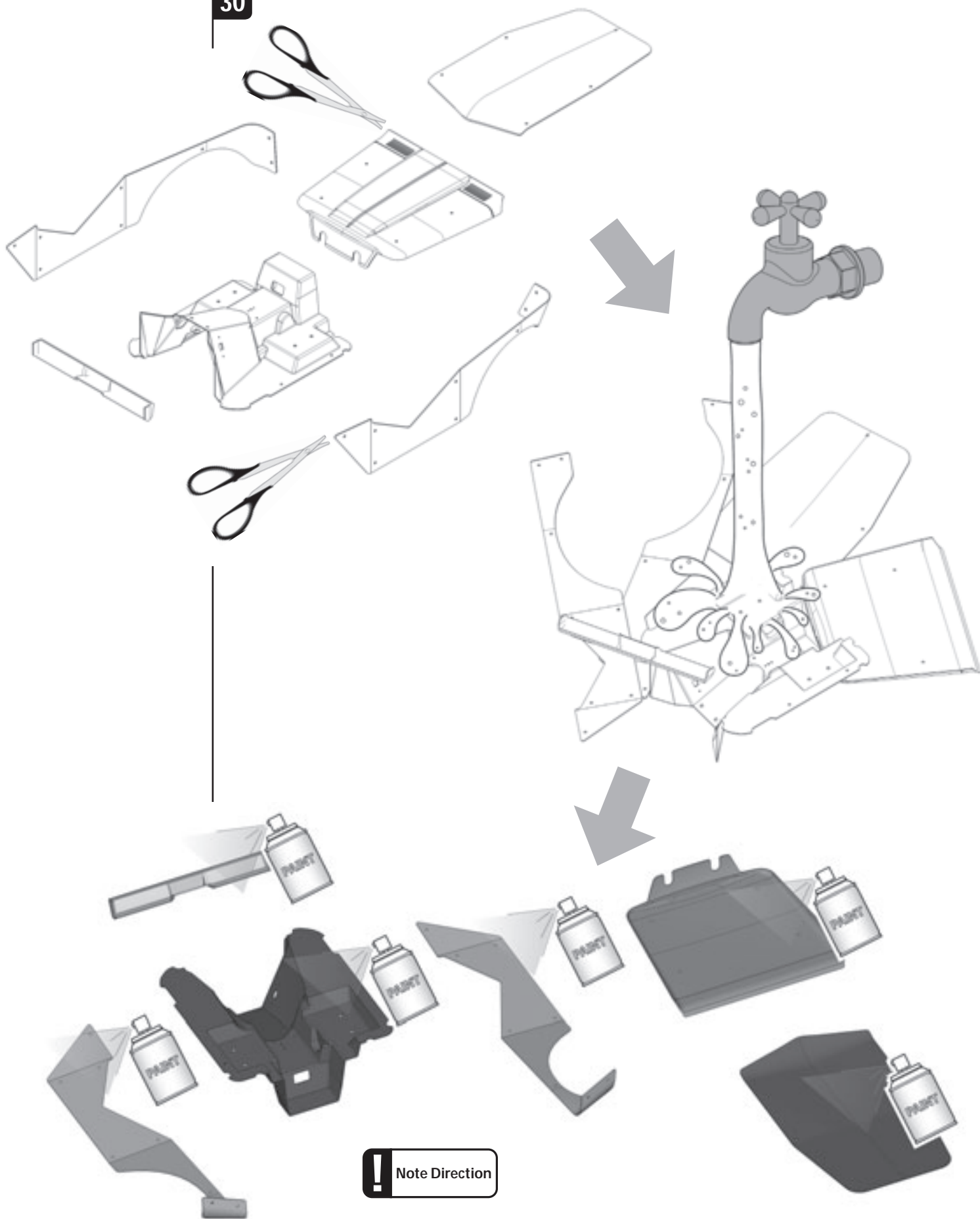


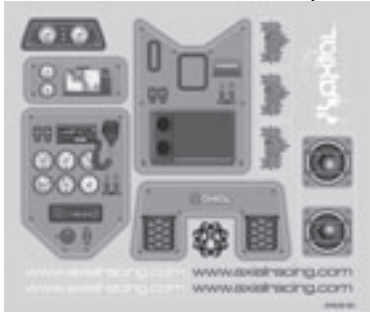
AX24257
Simple LED Controller w/LED lights (4 white and 2 Red)

*Not Included

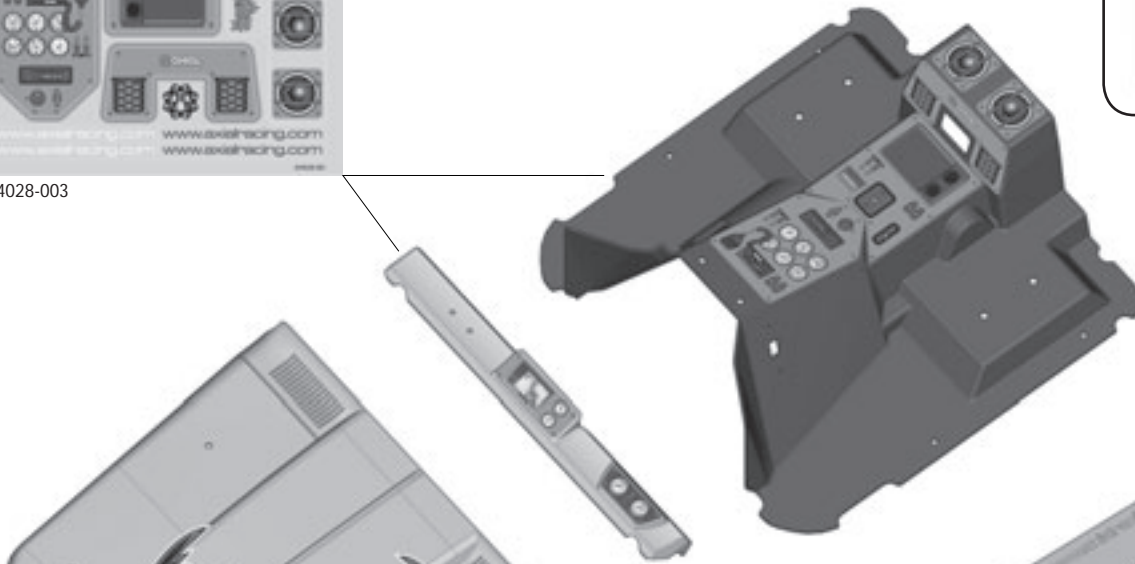


- AX80081 4**
Fits: Early Axial AE-2
OLDER CASTLE
Side winder
- AX80081A 6**
Fits: Newer Axial AE-3
NEWER CASTLE
Sidewinder & SV2





AX4028-003



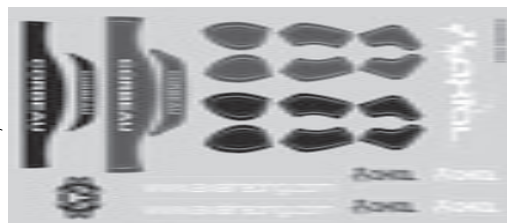
x2



x2





AX90018-D001



AX80080-D001



 AXA0422
M2.6x6mm x2

 AXA013
M2x6mm x2

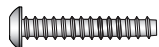
33





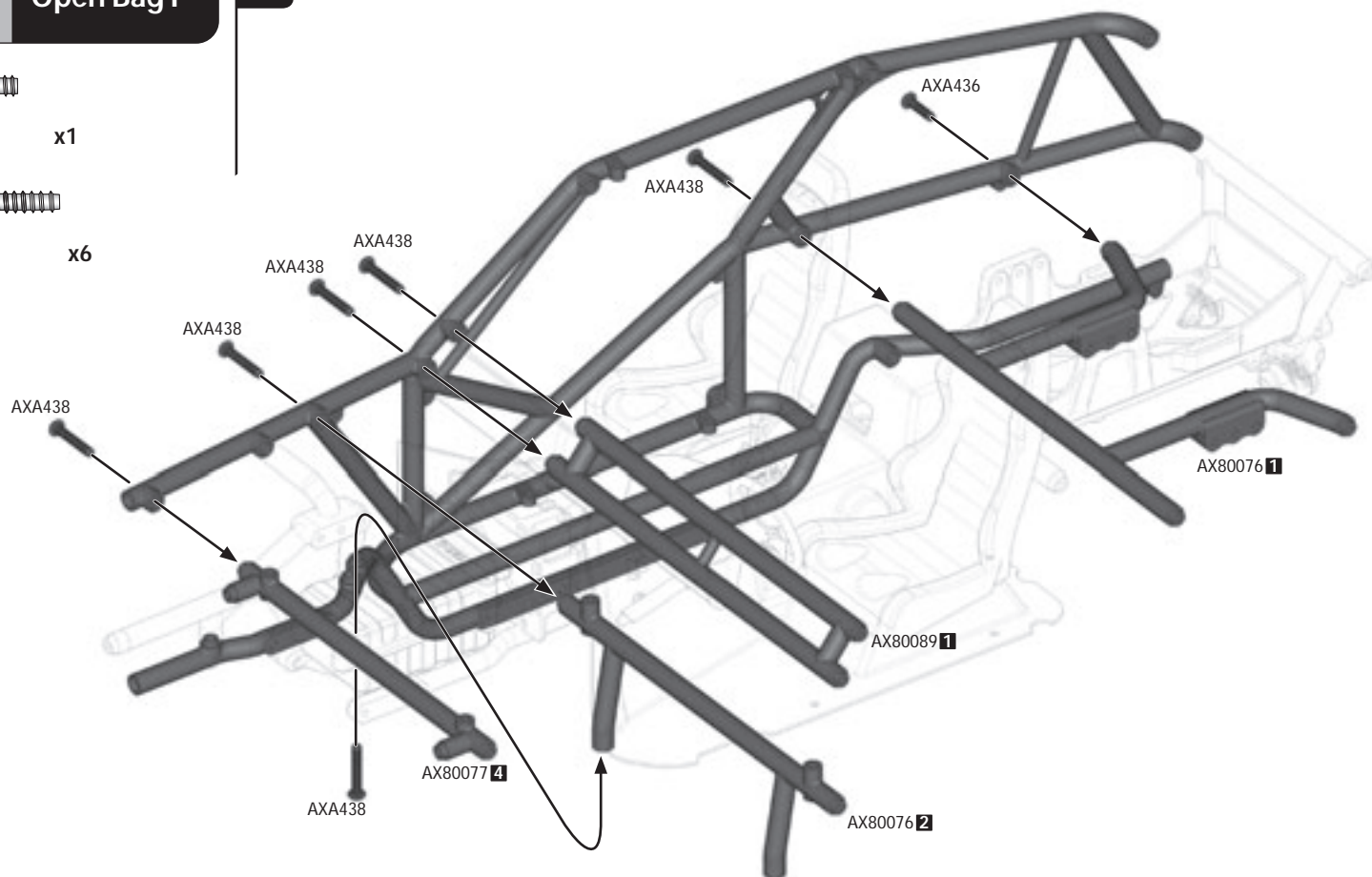
AXA436
M3x12mm

x1



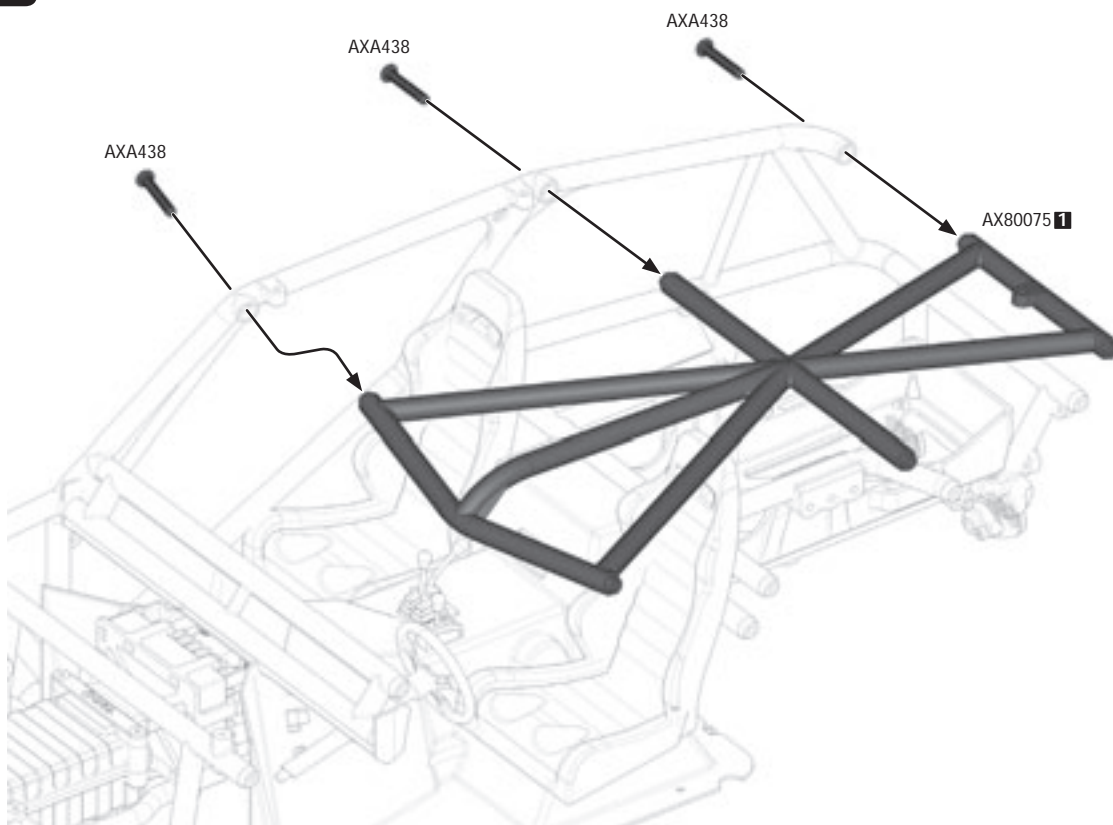
AXA438
M3x18mm




x6



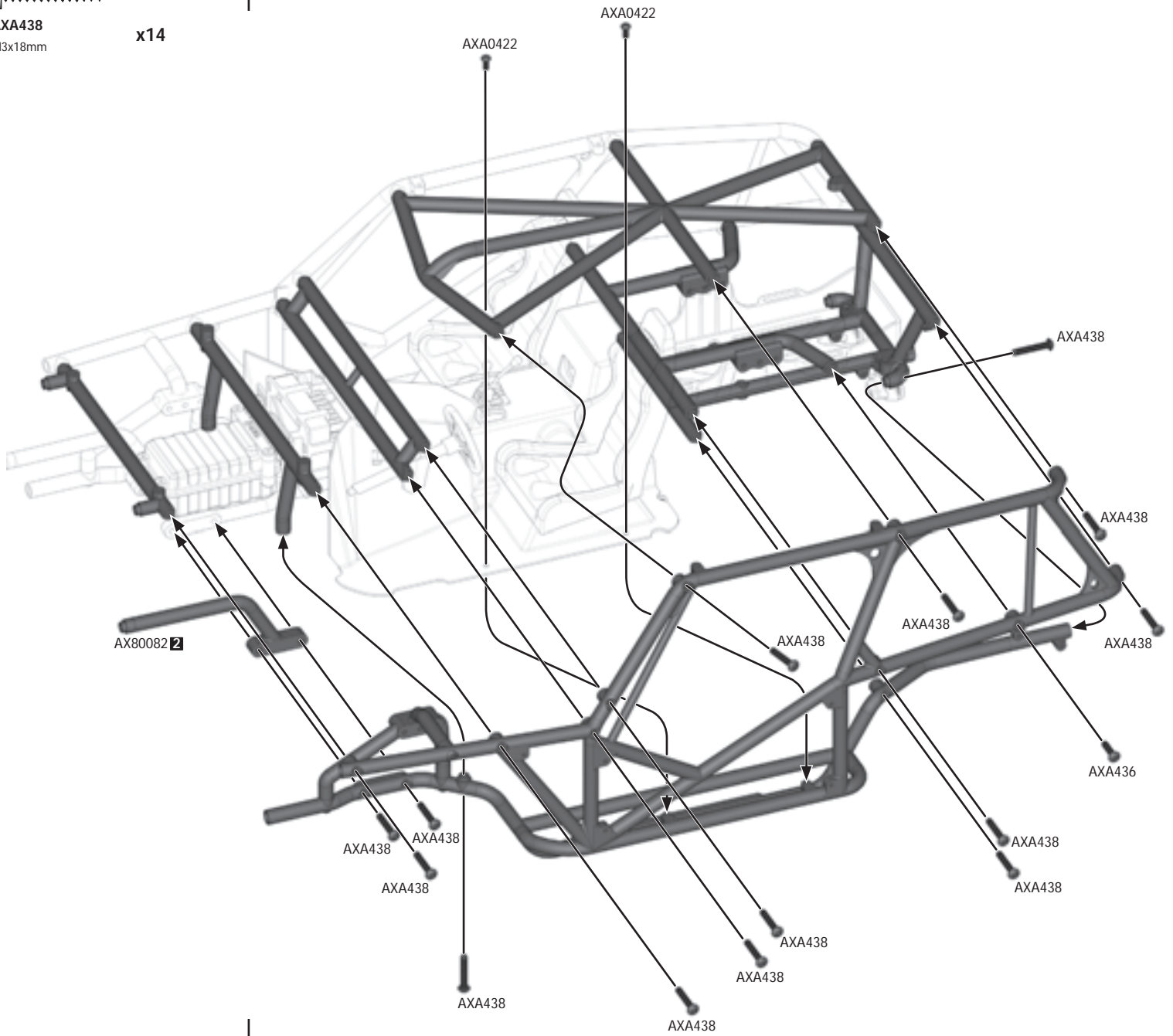
AXA438
M3x18mm




x3



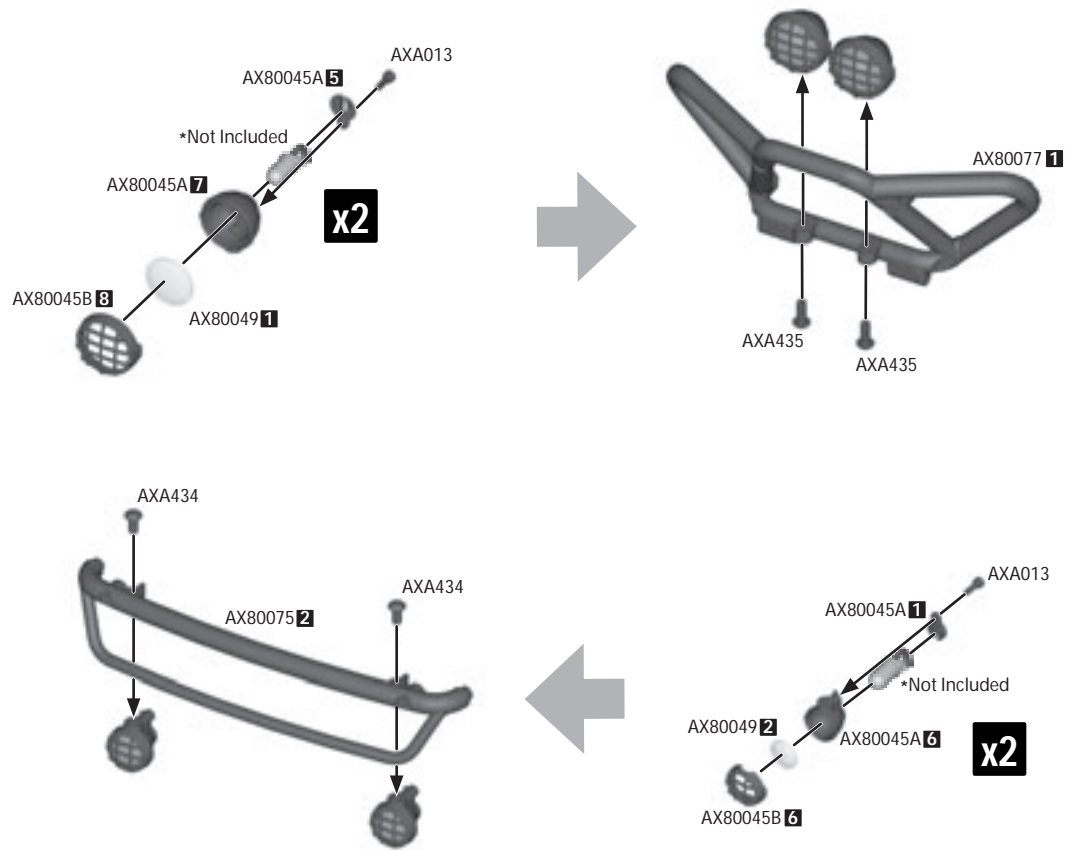
-  **AXA0422**
M2.6x6mm **x2**
-  **AXA436**
M3x12mm **x1**
-  **AXA438**
M3x18mm **x14**

36





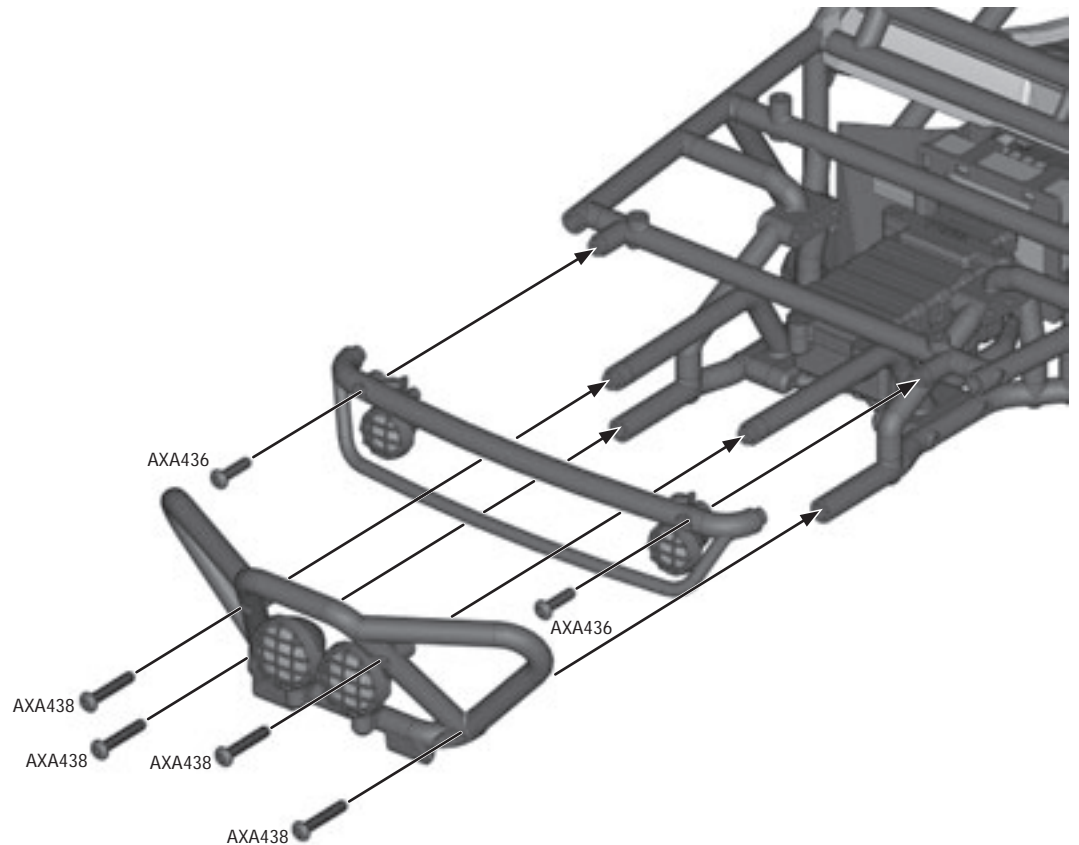
-  **AXA013**
M2x6mm **x4**
-  **AXA434**
M3x8mm **x2**
-  **AXA435**
M3x10mm **x2**

37



38

-  **AXA436**
M3x12mm **x2**
-  **AXA438**
M3x18mm **x4**

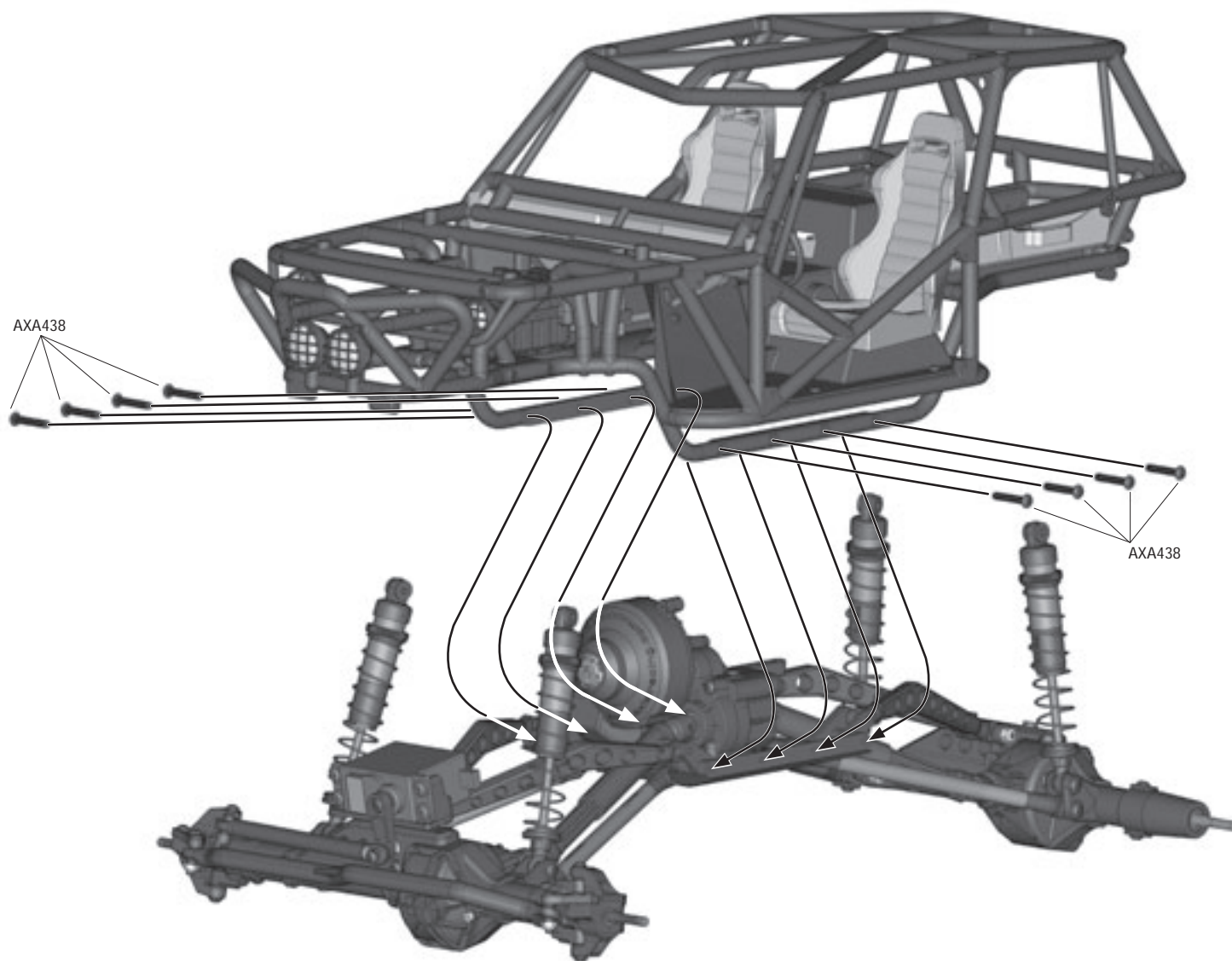




AXA438
M3x18mm

x8

39





AXA0439
M3x20mm

x2

40 Front

AXA0439

AX80034 **2**

AXA0439



AXA440
M3x25mm

x2

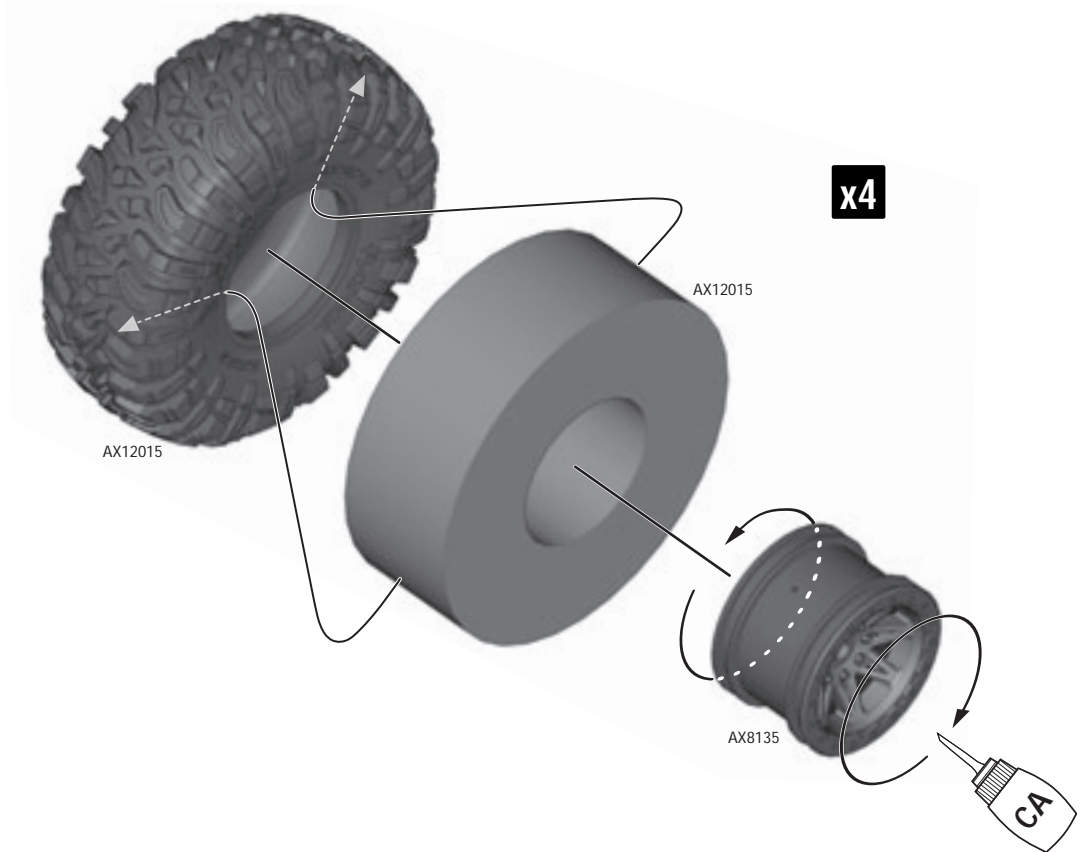
41 Rear

AXA440

AX80034 **2**

AXA440

42



G

Open Bag G



AXA180
M3x3mm x4



AX30163
PIN 2.0x10mm x4

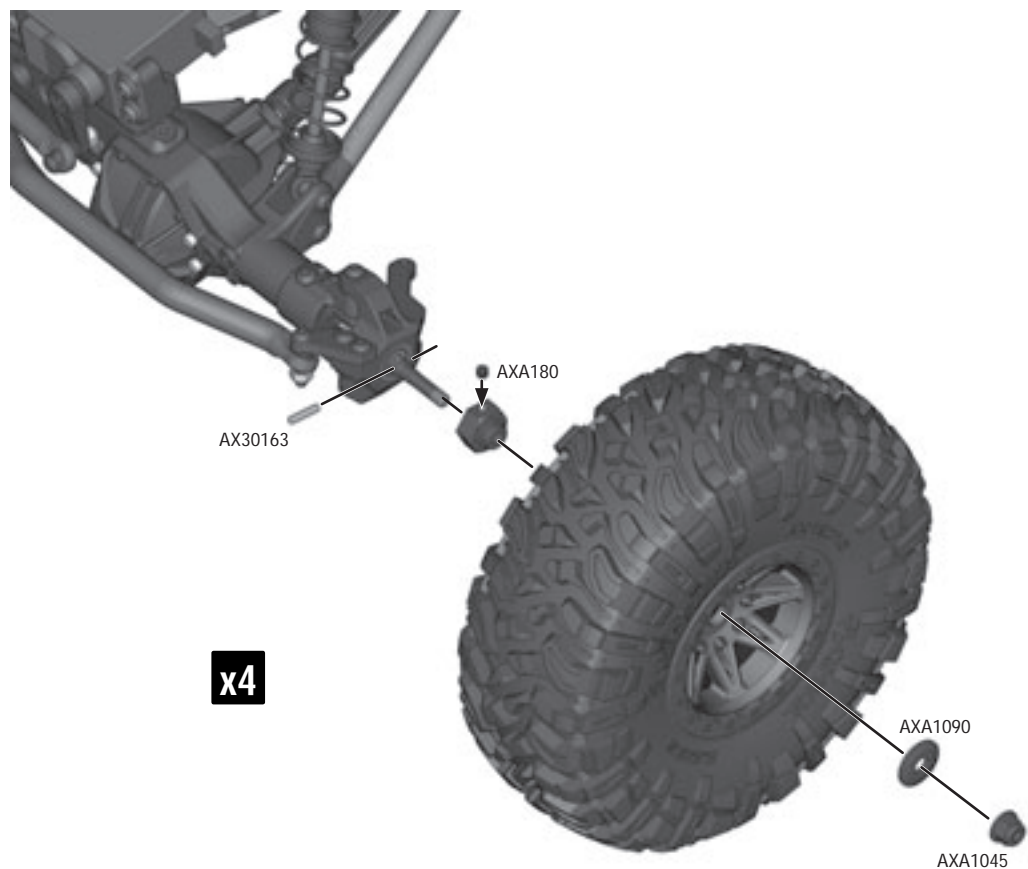


AXA1045
M4 Nylon Lock Nut (Black) x4



AXA1090
Washer 4.8x14 (Green) x4

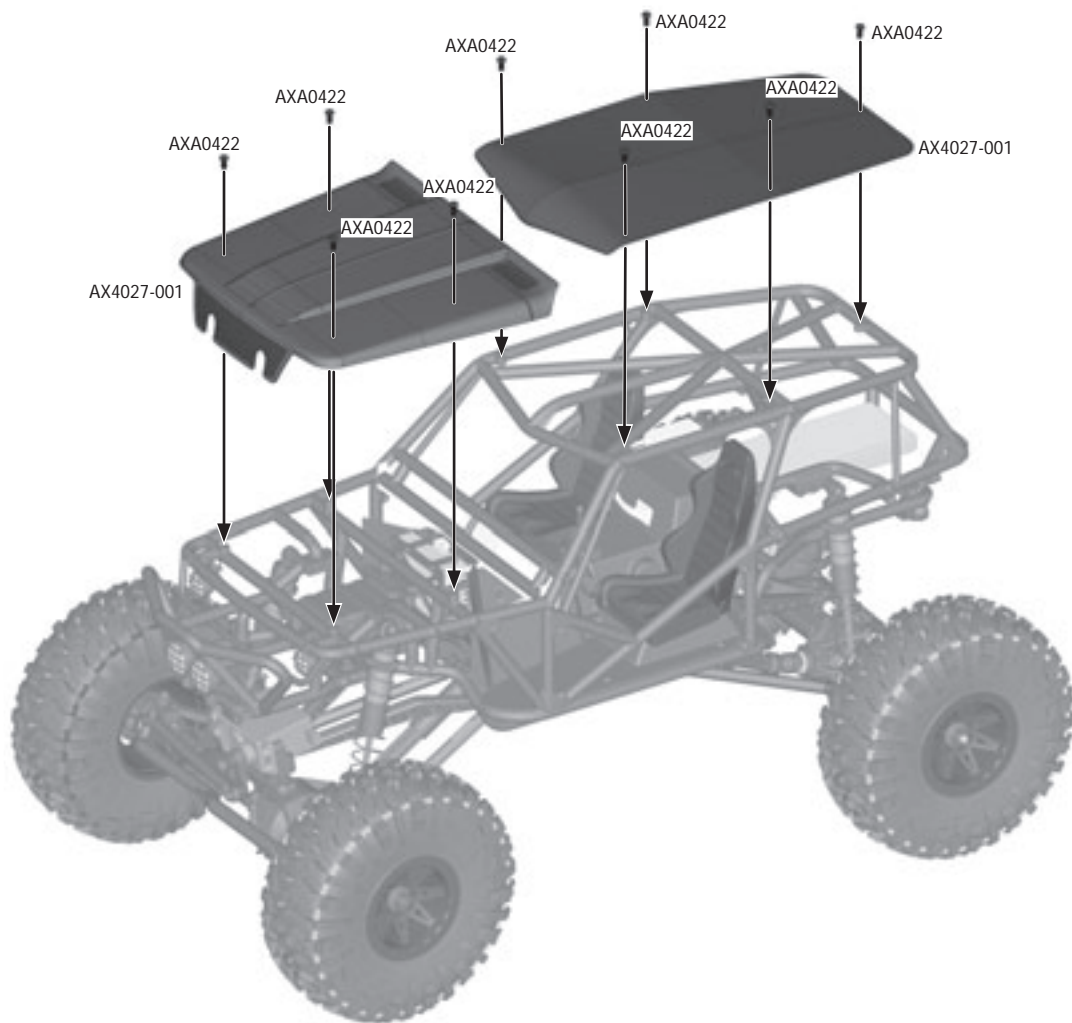
43



AXA0422
M2.6x6mm

x9

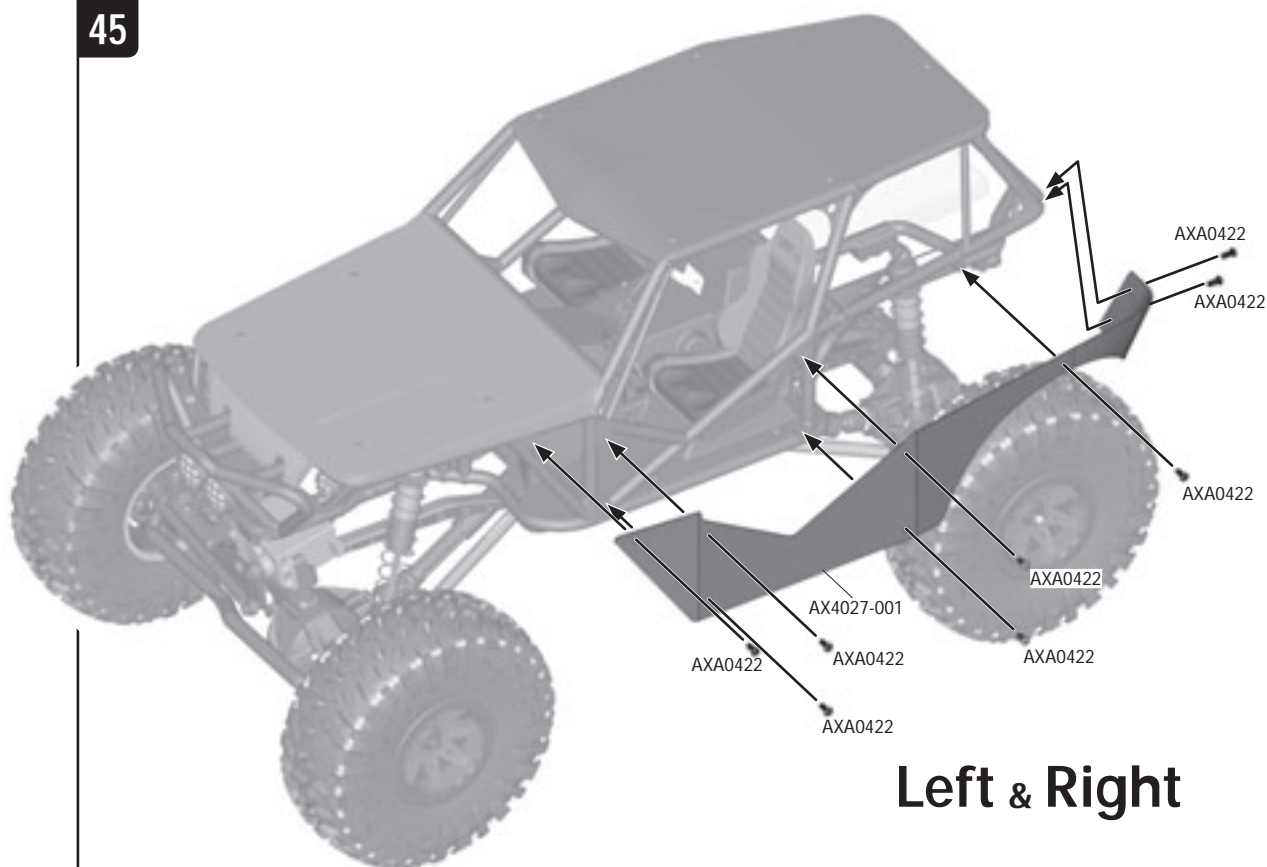
44



AXA0422
M2.6x6mm

x16

45



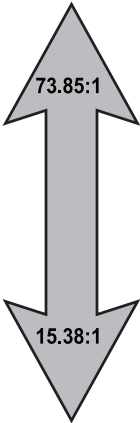
Left & Right

Gear Ratio / Getriebeübersetzung

Use this equation to calculate the final drive ratio.
Final Drive Gear Ratio = 1 / ((pinion/Spur) X .13)

Mit dieser Gleichung können Sie die Gesamtübersetzung berechnen.
Gesamtübersetzung = 1 / ((pinion/Spur) X .13)

Slower - More Torque
Langsamer - Mehr Kraft



Faster - Less Torque
Schneller - Weniger Kraft

48 Pitch										
Spur										
	70	72	75	78	81	85	87	90	93	96
Pinion	10							69.23	71.54	73.85
	11							62.94	65.03	67.13
	12						55.77	57.69	59.62	61.54
	13						51.48	53.25	55.03	56.80
	14					46.70	47.80	49.45	51.10	52.75
	15					43.59	44.62	46.15	47.69	49.23
	16					40.87	44.62	43.27	44.71	46.15
	17					36.32	39.37	40.72	42.08	43.44
	18				34.62	34.41	37.18	38.46	39.74	41.03
	19				32.79	34.41	35.22	36.44	37.65	38.87
	20				31.15	32.69	33.46	34.62	35.77	36.92
	21			28.57	29.67	31.14	31.87	32.97	34.07	35.16
	22			27.27	28.32	29.72	30.42	31.47	32.52	33.57
	23			26.09	27.09	28.43	29.10	30.10	31.10	32.11
	24		24.04	25.00	25.96	27.24	27.88	28.85	29.81	30.77
	25		23.08	24.00	24.92	26.15	26.77	27.69	28.62	29.54
	26		22.19	23.08	23.96	25.15	25.74	26.63	27.51	28.40
	27	20.51	21.37	22.22	23.08	24.22	24.79	25.64	26.50	27.35
	28	19.78	20.60	21.43	22.25	23.35	23.90	24.73	25.55	26.37
	29	18.57	19.10	19.89	20.69	21.49	22.55	23.08	23.87	24.67
	30	17.95	18.46	19.23	20.00	20.77	21.79	22.31	23.08	23.85
	31	17.37	17.87	18.61	19.35	20.10	21.09	21.59	22.33	23.08
	32	16.83	17.31	18.03	18.75	19.47	20.43	20.91	21.63	22.36
	33	16.32	16.78	17.48	18.18	18.88	19.81	20.28	20.98	21.68
	34	15.84	16.29	16.97	17.65	18.33	19.23	19.68	20.36	21.04
	35	15.38	15.82	16.48	17.14	17.80	18.68	19.12	19.78	20.44

Wheels - Tires / Räder - Ermüdet

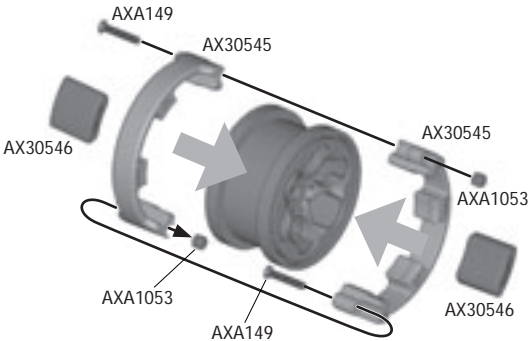
The Wraith Rock Racer is set up to be competitive right out of the box, however terrain, weather and driving style all affect the performance of the chassis. You can fine tune performance of your Wraith Rock Racer by adding weight, trimming the inner foam, and tuning your tires.

Der Wraith Rock Racer ist konstruiert, um aus der Schachtel konkurrenzfähig zu sein, jedoch beeinflussen Gelände, Wetter und Fahrstil die Leistung vom Chassis. Sie können die Leistung Ihre Wraith Rock Racer durch hinzufügen von Gewichten, Trimmen der Reifeneinlage und der Reifenabstimmung einstellen.

Adding Weight / Addiergewicht

You can add weight to the front axle to improve traction. Most users will use stick on wheel weights that fit inside the tire and mount to the wheel, but you can also use Airsoft pellets or BB's. You will have to experiment to determine how much weight to add.

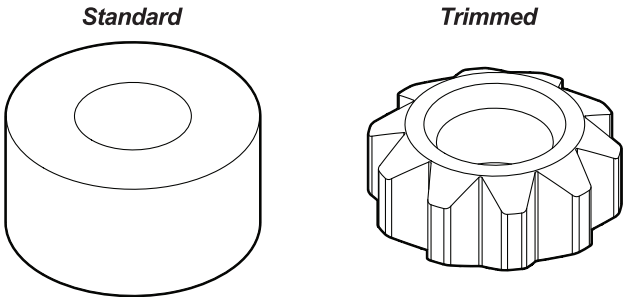
Sie können an der Vorderachse Gewicht hinzufügen um die Traktion zu verbessern. Die meisten Fahrer verwenden Aufsteckbare Rädergewichte die innerhalb des Reifens montiert werden, Sie können aber auch Airsoft Kugeln oder BB's verwenden. Sie werden experimentieren müssen, um zu bestimmen, wieviel Gewicht Sie hinzufügen müssen.

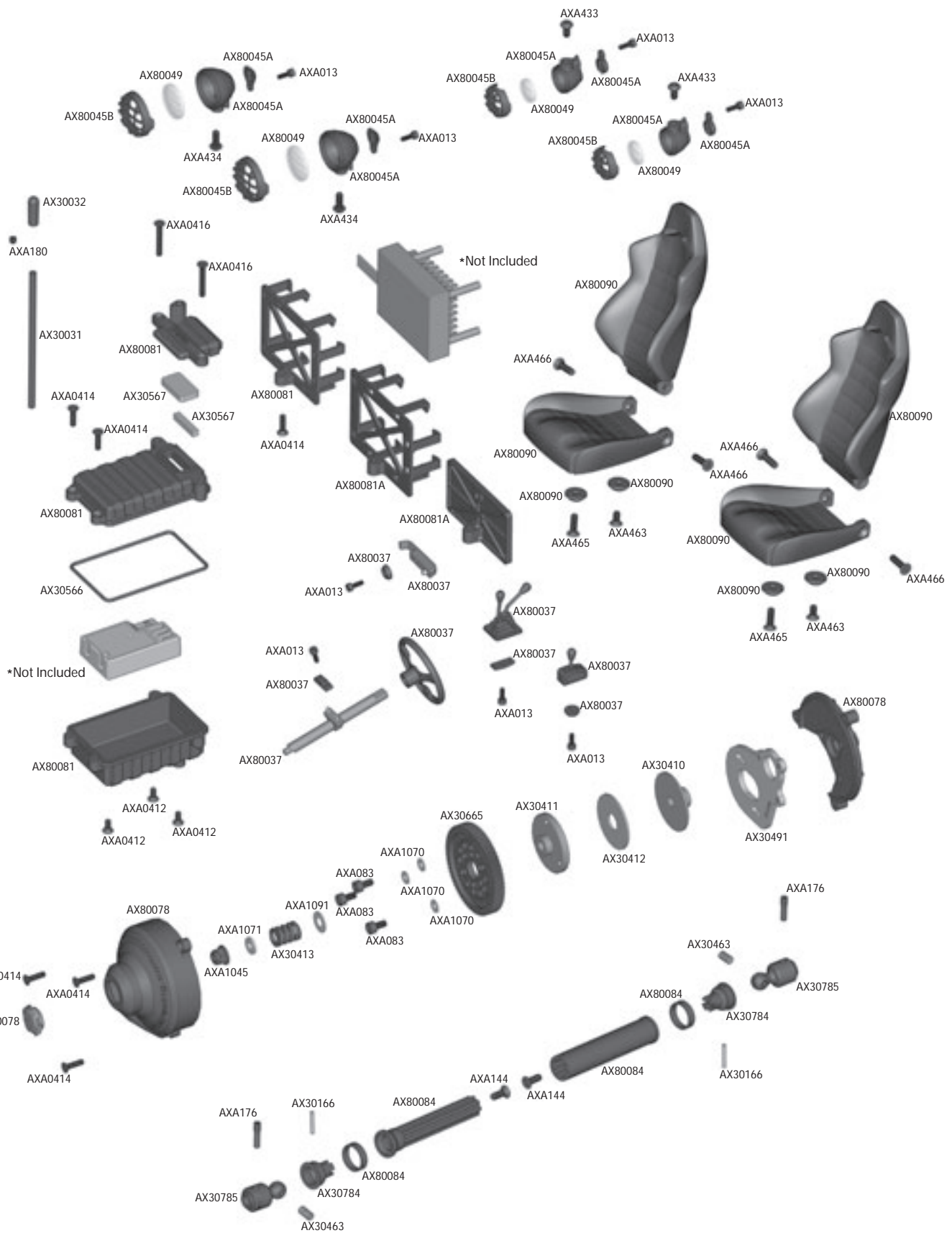


Tire Flex / Reifen Flex

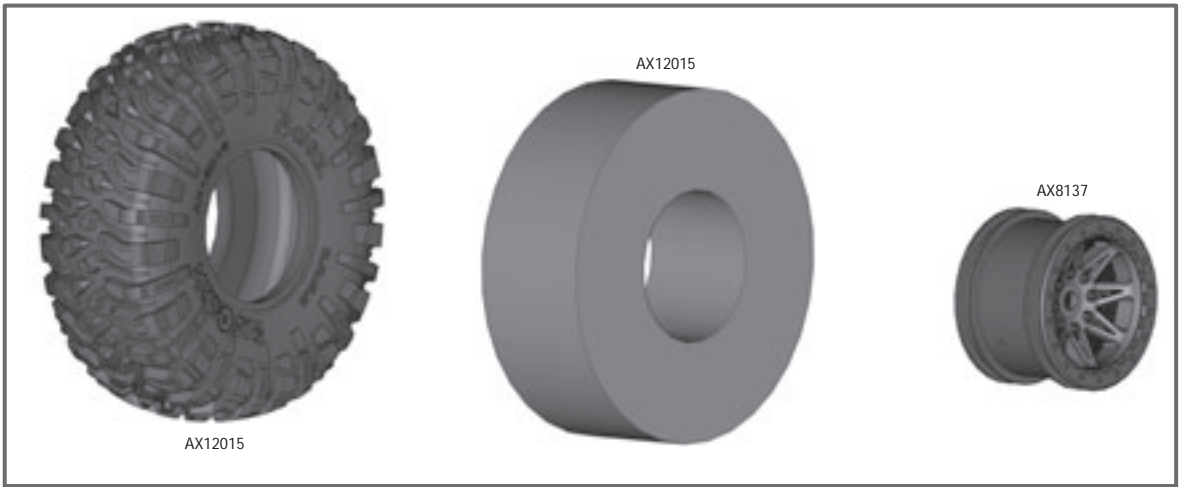
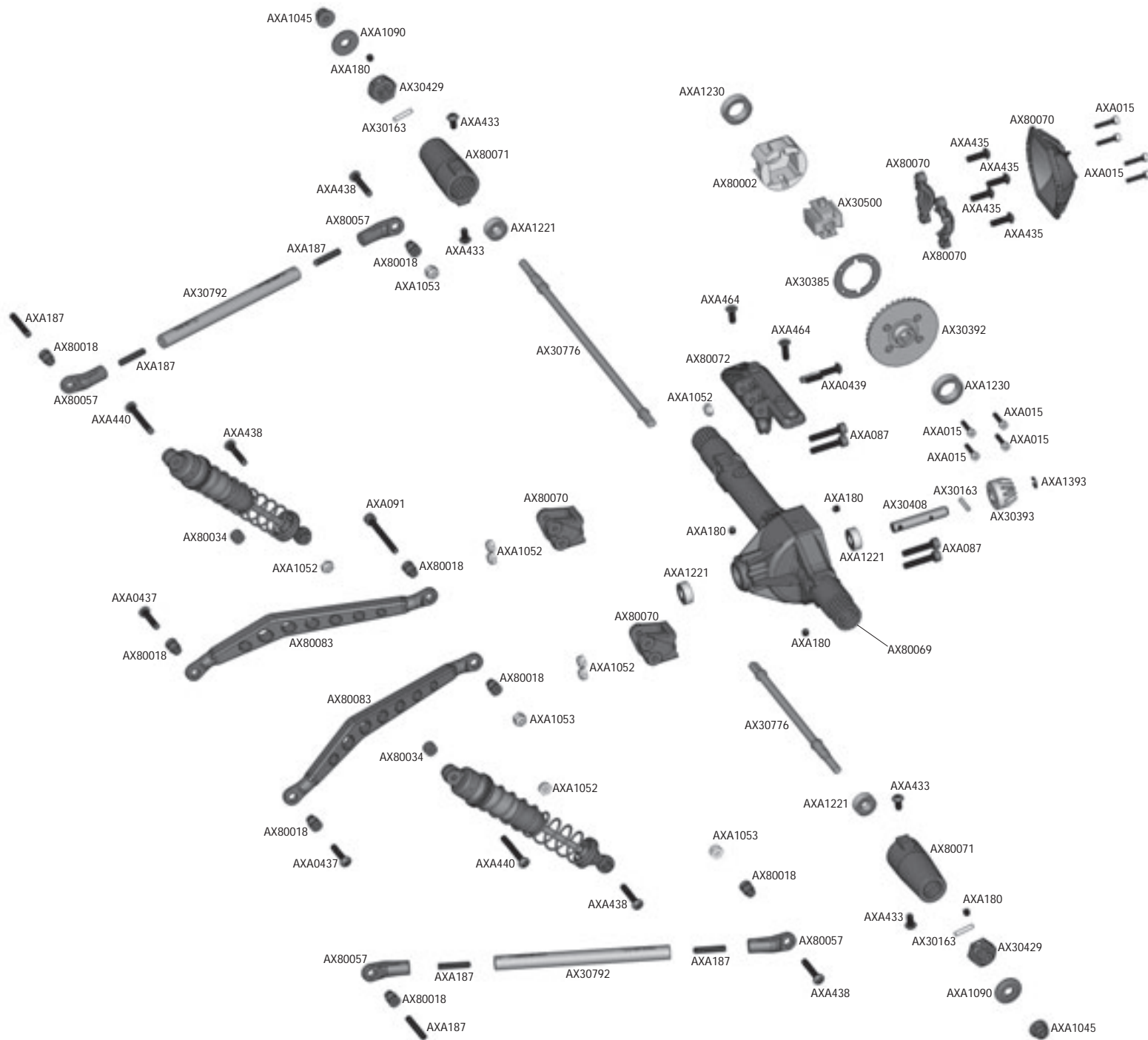
You can adjust the amount of tire flex you get by trimming your inner foam. Visit www.rccrawler.com to see all the choices you have before trimming your inner foams.

Sie können die Eigenschaften des Reifens durch trimmen der Reifeneinlage ändern. Besuchen Sie www.rccrawler.com, um Möglichkeiten für diese Änderung zu sehen, bevor Sie die Einlage bearbeiten.



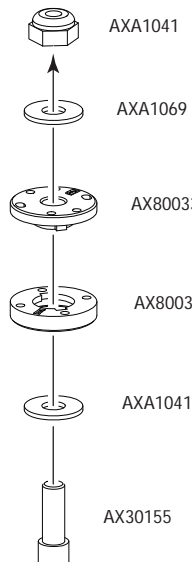






Shock Tuning / Stossdämpferabstimmung

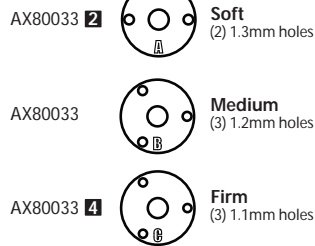
Installation



Pistons

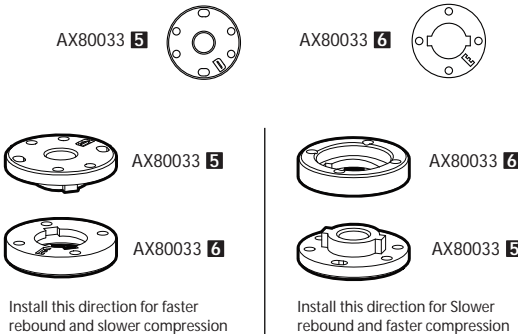
Standard Pistons

Provides the same dampening rate on both compression and extension



Variable Rate Pistons

Provides a different dampening rate depending on which direction you install.



Springs/Oil



Springs

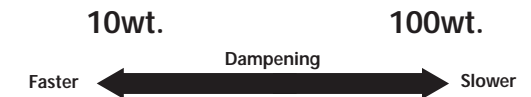
Depending on the application you may want a firmer spring than what is included. Selecting a spring rate is based on each vehicles weight and handling and usually will require some trial and error.

For rock crawling applications it is recommended to use a stiffer spring on which ever corner is exhibiting torque twist.

Oil

Oils are another element you can use to tune the handling of your vehicle. You want an oil that allows the vehicle to handle the terrain well, but not too thin as to exhibit a springy bounce while driving.

We recommend starting with a good 30 wt. silicone oil. If you are looking for a faster rebound/compression rate use a lower weight oil. If you are looking for a slower rebound compression rate use a higher weight oil.



Parts List

Part #	Description	Part #	Description
AX04027	Wraith Body - .040" (Clear)	AX30777	56x17mm Servo Plate
AX04028	Wraith Interior Set - .040" (Clear)	AX30778	Zero Ackerman Steering Plate (2pcs)
AX08135	2.2 Raceline Renegade Wheels - 41mm Wide (Black) (2pcs)	AX30780	AR60 OCP Universal Axle Set
AX12015	2.2 Ripsaw Tires - R35 Compound (2pcs)	AX30784	WB8 Driveshaft Coupler Set
AX30031	Antenna	AX30792	Threaded Aluminum Link 7x87.5mm - Grey (2pcs)
AX30041	Velcro Strap 15x160mm	AX80002	Diff Case -Small
AX30112	Shock Diaphragm 13x4.5mm (6pcs)	AX80006	Servo Set
AX30113	Rubber Bump Stop 3.6x7x4 (6pcs)	AX80010	Gear Set
AX30155	Shock Shaft 3x59.5 (2pcs)	AX80018	Hardware Parts Tree
AX30162	Pin 1.5x8mm (6pcs.)	AX80033	10mm Shock Parts Tree 1
AX30163	Pin 2.0x10mm (6pcs.)	AX80034	10mm Shock Parts Tree 2
AX30166	Pin 1.5x11mm (6pcs)	AX80035	10mm Shock Caps Parts Tree
AX30190	Shaft 5x18 (2pcs.)	AX80036	72-103mm Shock Body
AX30198	Slipper Drive Gear Shaft 5x53.5	AX80037	Interior Details Parts Tree - Black
AX30224	Spring 14x70mm 1.43 lbs/in - Purple (2pcs)	AX80045	Axial Light Bucket Set (Black)
AX30385	Diff Gasket 16x25x0.5mm (2pcs)	AX80049	Axial LED Lens Set - Yellow/Clear (4pcs)
AX30392	Bevel Gear Set (38/13)	AX80051	Dig Transmission Case
AX30394	20T Drive Gear	AX80057	XR10 Linkage Set
AX30408	Input Shaft 5x29mm (2pcs)	AX80061	XR10 Steering Knuckles Set
AX30410	Inner Slipper Plate	AX80062	XR10 C Hub Carrier Set
AX30411	Outer Slipper Plate	AX80069	AR60 OCP Axle Housing
AX30412	Slipper pad 27x8x1mm	AX80070	AR60 OCP Differential Cover
AX30413	Slipper spring 8.5x12 165 lbs/in - Black (2pcs)	AX80071	AR60 OCP Straight Axle Adapter
AX30429	12mm Aluminum Hub (Black) (4pcs)	AX80072	AR60 OCP 4-Link Mount
AX30435	Steel Outdrive Shaft Set (2pcs)	AX80073	AR60 OCP Steering Link
AX30437	Dig Lockout Shaft	AX80074	Wraith Tube Frame Rails
AX30450	Flange Pipe 3x4.5x5.5 (4pcs)	AX80075	Wraith Tube Frame Top
AX30463	WB8 Universal Joint Rebuild Kit (2pcs)	AX80076	Wraith Tube Frame Shock Mount (Rear)
AX30491	AX10 RTR Motor Plate	AX80077	Wraith Tube Frame Bumper
AX30500	Heavy Duty Locker (2pcs)	AX80078	Transmission Spur Gear Cover
AX30566	Radio Box Gasket Set (3pcs)	AX80079	Wraith Tube Frame Skid Plate/Battery Tray
AX30578	Pinion 48DP 20 T	AX80081	Wraith Tube Frame Electronics Box
AX30665	Spur 48DP 80T	AX80082	Wraith Tube Frame Brace Set
AX30776	AR60 OCP Rear Axle Set (2pcs)	AX80083	Wraith Links Set

Parts List

Part # Description

AX80084	WB8 Driveshaft
AX80087	Wraith Tube Frame Side (Left)
AX80088	Wraith Tube Frame Side (Right)
AX80089	Wraith Tube Frame Shock Mount (Front)
AX80090	Corbeau LG1 Seat (Black) (2pcs)
AXA0113	M3x6mm Hex Socket Button Head (Black) (10pcs)
AXA013	M2x6 mm Cap Head (Black) (10pcs)
AXA015	M2x10mm Cap Head (Black) (10pcs)
AXA0175	Screw Shaft M3x2.5x11mm (10pcs)
AXA0187	M3x20mm Set Screw (Black) (10pcs)
AXA0412	M2.6x6mm Hex Socket Tapping Flat Head (Black) (10pcs)
AXA0413	M2.6x8mm Hex Socket Tapping Flat Head (Black) (10pcs)
AXA0414	M2.6x10mm Hex Socket Tapping Flat Head (Black) (10pcs)
AXA0416	M2.6x18mm Hex Socket Tapping Flat Head (Black) (10pcs)
AXA0422	M2.6x6mm Hex Socket Tapping Button Head (Black) (10pcs)
AXA0437	M3x15mm Hex Socket Tapping Button Head (Black) (10pcs)
AXA0439	M3x20mm Hex Socket Tapping Button Head (Black) (10pcs)
AXA083	M3x6mm Cap Head (Black) (10pcs)
AXA087	M3x16mm Cap Head (Black) (10pcs)
AXA089	M3x25mm Cap Head (Black) (10pcs)
AXA091	M3x30mm Cap Head - Black (10pcs)
AXA1040	M3 Thin Hex Nut (Black) (10pcs)
AXA1041	M2.5 Nylon Locking Hex Nut - Silver (10pcs)
AXA1045	M4 Nylon Lock Nut (Black) (10pcs)
AXA1052	M3 Thin Nylon Locking Hex Nut (Black)
AXA1053	M3 Nylon Locking Hex Nut (Black) (10pcs)
AXA1069	Washer 2.7x6.7x0.5 (10pcs)
AXA1070	Washer 3x6x0.5 (10pcs)
AXA1071	Washer 4x8x0.5mm (10pcs)
AXA1090	Washer 4x8x14mm (Black) (10pcs)
AXA1091	Washer 5x10x.5 (Black) (10pcs)
AXA116	M3x12mm Hex Socket Button Head - Black (10pcs)
AXA117	M3x15mm Hex Socket Button Head (Black) (10pcs)
AXA118	M3x18mm Hex Socket Button Head - Black (10pcs)
AXA1184	O-Ring 7.5x1.5mm (S8) - (10pcs)
AXA1202	O-Ring 3.5x2mm (10pcs)
AXA1218	Bearing 5x10x4mm (2pcs)
AXA1221	Bearing 5x11x4mm (2pcs)
AXA1225	Bearing 8x16x5mm (2pcs)
AXA1230	Bearing 10x15x4mm
AXA1243	Bearing 15x21x4mm (2pcs)
AXA1280	M3x10mm Servo Flange Screw (10pcs)
AXA1356	Silicone Shock Bushing 7.5x8mm (6pcs)
AXA1393	E2.5 e-clip (10pcs)
AXA144	M3x8mm Hex Socket Flat Head (Black) (10pcs)
AXA180	M3x3mm Set Screw (Black) (10pcs)
AXA433	M3x6mm Hex Socket Tapping Button Head - Black (10pcs)
AXA434	M3x8mm Hex Socket Tapping Button Head (Black) (10pcs)
AXA435	M3x10mm Hex Socket Tapping Button Head (Black) (10pcs)
AXA436	M3x12mm Hex Socket Tapping Button Head (Black) (10pcs)
AXA438	M3x18mm Hex Socket Tapping Button Head (Black) (10pcs)
AXA440	M3x25mm Hex Socket Tapping Button Head (Black) (10pcs)
AXA441	M3x30mm Hex Socket Tapping Button Head (Black) (10pcs)
AXA463	M3x6mm Hex Socket Tapping Flat Head (Black) (10pcs)
AXA464	M3x8mm Hex Socket Tapping Flat Head (Black) (10pcs)
AXA465	M3x10mm Hex Socket Tapping Flat Head (Black) (10pcs)
AXA466	M3x12mm Hex Socket Tapping Flat Head (Black) (10pcs)

Option Parts

AX08061	2.2 VWS Beadlock Wheels (Black) (2pcs) (Fits XR10)
AX08069	2.2 VWS Beadlock Rings (Black) (2pcs)
AX08132	2.2 VWS Machined Beadlock Rings (Orange) (2pcs)
AX08133	2.2 VWS Machined Beadlock Ring (Grey) (2pcs)
AX08137	2.2 Raceline Renegade Wheels - 41mm Wide (Chrome/Black) (2pcs)
AX24003	Axial 20T Electric Motor
AX24004	Axial 27T Electric Motor
AX24007	Axial 55T Electric Motor
AX24204	Axial 2.4Ghz Radio System (2 Channel)
AX24251	Axial NVS - Night Visions System
AX24252	Axial Double LED Light String (White LED)
AX24253	Axial Double LED Light String (Red LED)

Part # Description

AX24253	Axial Double LED Light String (Red LED)
AX24254	Axial Double LED Light String (Orange LED)
AX24255	Axial Single LED Light String (White LED)
AX24256	Axial 5 LED Light String (White LED)
AX24257	Simple LED Controller w/LED lights (4 white and 2 Red)
AX24258	4 LED String (White LED)
AX24259	Axial AE-2 Forward/Reverse ESC w/ Drag Brake
AX30092	Axial 72-103mm Shock Set - 10mm Piston (2pcs)
AX30110	Axial Aluminum 13mm Aluminum Preload Collar (2pcs)
AX30111	Axial Aluminum Shock Cap (2pcs)
AX30120	Axial Aluminum Shock Body 12x47.5mm (2pcs)
AX30219	Spring 14x70mm 2.47 lbs/in - Soft (White) (2pcs)
AX30220	Spring 14x70mm 2.85 lbs/in - Medium (Green) (2pcs)
AX30221	Spring 14x70mm 3.27 lbs/in - Firm (Yellow) (2pcs)
AX30222	Spring 14x70mm 3.55 lbs/in - Super Firm (Blue) (2pcs)
AX30223	Spring 14x70mm 1.04 lbs/in - Black (2pcs)
AX30224	Spring 14x70mm 1.43 lbs/in - Purple (2pcs)
AX30225	Spring 14x70mm 1.75 lbs/in - Orange (2pcs)
AX30395	Heavy Duty Bevel Gear Set
AX30438	Axial Delrin 10mm Machined Piston - 1.2 (4pcs)
AX30569	Pinion 48P 14T - Steel
AX30571	Pinion 48P 13T - Steel
AX30572	Pinion 48DP 14T
AX30573	Pinion 48P 15T - Steel
AX30672	Spurs 48DP 87T
AX30760	XR10 Aluminum Steering Knuckle (Black) (2pcs)
AX30762	XR10 Aluminum C-Hub Carrier (Black) (2pcs)
AX30781	Front Sway Bar Set
AX30782	Rear Sway Bar Set
AX30786	Aluminum Driveshaft Ring
AX30789	Aluminum Straight Axle Adapter (2pcs)
AX30793	Dig Upgrade Set
AX80080	Corbeau LG1 Seat (Grey) (2pcs)
AX8091	Axial 2.2 Rockster Beadlocks (Black)
AX8092	Axial 2.2 Rockster Beadlocks (Chrome)
AX8095	Axial 2.2 Rockster Beadlocks (Black Chrome)
AX8097	2.2 8 Hole Beadlocks (Black)
AX8098	2.2 8 Hole Beadlocks (Satin Chrome)
AX8107	2.2 Beadlock Ring - Orange (2pcs)
AX8108	2.2 Beadlock Ring - Green (2pcs)
AX8110	2.2 Beadlock Ring - Blue (2pcs)
AX8113	2.2 Rock Beadlock Ring - Green (2pcs)
AX8117	2.2 Rock Beadlock Ring - Grey (2pcs)
AX8118	2.2 Rock Beadlock Ring - Orange (2pcs)
AXA1105	Cone Washer 3x6.9x2mm - Grey (6pcs)
AXA1331	Flanged Ball 3x5.8x7mm (6pcs)
AXA1412	0.5x6mm Spacer - Grey (6pcs)
AXA1413	1x6mm Spacer - Grey (6pcs)
AXA1414	2x6mm Spacer - Grey (6pcs)
AXA1415	3x6mm Spacer - Grey (6pcs)
AXA1416	4x6mm Spacer - Grey (6pcs)
AXA1417	5x6mm Spacer - Grey (6pcs)
AXA1418	6x6mm Spacer - Grey (6pcs)
AXA1419	7x10mm Post - Grey (2pcs)
AXA1420	7x15mm Post - Grey (2pcs)
AXA1421	7x20mm Post - Grey (2pcs)
AXA1422	7x25mm Post - Grey (2pcs)
AXA1423	7x30mm Post - Grey (2pcs)
AXA1424	7x35mm Post - Grey (2pcs)
AXA1425	7x40mm Post - Grey (2pcs)
AXA1426	7x45mm Post - Grey (2pcs)
AXA1427	7x50mm Post - Grey (2pcs)
AXA1428	7x55mm Post - Grey (2pcs)
AXA1429	7x60mm Post - Grey (2pcs)
AXA1430	7x65mm Post - Grey (2pcs)
AXA1431	7x70mm Post - Grey (2pcs)

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