S3X·1

new generation rc car

1/8 OFF-ROAD 4WD NITRO RC PROFESSIONAL BUGGY

INSTRUCTION MANUAL

WRC
PROFESSIONAL RC CAR

www.wrc-racing.com

INTRODUCTION

SBX is a new generation high quality 1/8 scale nitro off-road buggy.
SBX is supplied in a box,you can download the Instruction manual from www.wrc-racing.com
Its use is intended for more than 16 years old persons with experience on rc model car field.
Children and all the persons without this requirement MUST have direct supervision of a knowledgeable adult responsible.

SAFETY PRECAUTIONS

Instruction Manual MUST be read and fully understood before to start building and operating functions.
Always keep Instruction Manual in safety place, ready to be consulted for any reference you need.
Use only original WRC spare parts.

GENERAL INFORMATION

Assemble the kit only away from the reach of children.
Follow the building and operating instructions using the utmost care.
Don't put any part of your body inside rotating and moving elements as this may cause damage or serious injury.
Check and clean the model before putting it away.
Don't use your model car in public places or in roads and areas where it could generate conflict with person or vehicular traffic.
The model car is controlled by radio: you MUST put great care to avoid loss of radio control always keeping a safety margin all around your model in order to prevent any collision.
Operating frequency: check and be sure it is clear and not shared with anybody at same time; it could cause loss of control of the RC model.
Always turn on your transmitter before you turn on the receiver in the car and always turn off the receiver before you turn 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.

WARRANTY

WRC guarantees this model kit to be free from defects in both material and workmanship within 30 days of purchase.
The total monetary value under warranty will in no case exceed the cost of the original kit purchased.
This warranty doesn't cover any compnents damaged by use or modification or as result of wear.
Part or parts missing from this kit must be reported within 30 days of purchase.
No part or parts will be sent under warranty without proof of purchase.
If you find a defective or missing part, contact the local distributor.
Customer service and support will be provided through local hobby store.
No warranties are expressed or implied that cover damage caused by what is considered normal use or cover or imply how long any model cars' components or electric components will last before requiring replacement.
Due to the high performance level of this model car you will need to periodically maintain and replace consumable components; any and all warranty coverage will not cover replacement of any part or component damaged by neglect, abuse or improper or unreasonable use.
This includes but is not limited to damage from crashing, excessive moistur, improper use or no maintenance or user modifications which compromise the integrity of components.
Warranty will not cover compnents that are considered consumable on RC model car.
WRC doesn't pay nor refund on any component sent from WRC or its distributor for warranty.
WRC reserves the right to make final determination of the warranty status of any component or part
Use only original WRC spare part:

CUSTOMER SUPPORT

Please don't hesitate to contact WRC support at info@wrc-racing.com for any problem or question.
Also kindly visit our website www.wrc-racing.com to find last updates, set-up information, option parts and other information.

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fax: 0039 0 444 401139
E-mail: info@wrc-racing.com
Website: www.wrc-racing.com

PROFESSIONAL RC CAR

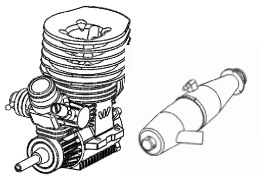
TECHNICAL INFORMATION

- BRAKE:Laser cut brake disck with Ferodo brake pad
- WHEELS LOCK:Lightweight 17 mm 7075 T6 Nut
- CHASSIS:3.0 mm Swiss 7075 T6 aluminium
- RADIO PLATE:Composite Material
- DRIVETRAIN TYPE:Spring steel CVD Driveshfts
- FRONT DIFFERENTIAL:Differential Gear
- REAR DIFFERENTIAL:Differential Gear
- SUSPENSION:Pivot ball suspension
- RIDE HEIGHT:Adjustable Front & Rear
- CAMBER:Adjustable Front & Rear
- CASTER:Adjustable Front
- TOE:Adjustable Front & Rear
- ROLLCENTER:Adjustable Front & Rear
- ACKERMANN:Adjustable Front
- ANTI-ROLL BARS:Adjustable Front & Rear

TECHNICAL DATA

- WIDTH .....310 mm
- WHEEL BASE .....adjustable 315-320 mm.

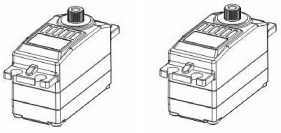
ADDITIONAL ITEMS NEEDED FOR COMPLETION (REQUIRED BUT NOT INCLUDED IN THE KIT)



ENGINE AND MUFFLER

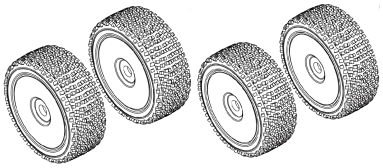
TRANSMITTER

RECEIVER

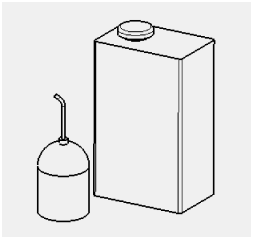


2 LOW PROFILE STEERING SERVO

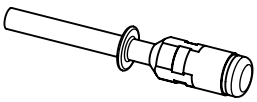
AA ALKALINE BATTERIES
FOR TRANSMITTER
AND RECEIVER



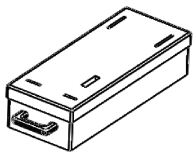
WHEEL - TYRES - INSERTS



FUEL AND FUEL PUMP



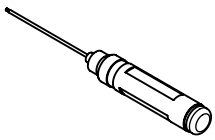
POCKET BOOSTER



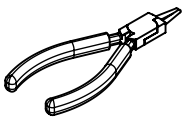
STARTER

TOOLS REQUIRED

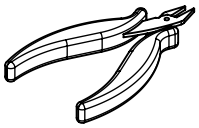
THESE TOOLS ARE NOT INCLUDED IN THE KIT BUT ARE REQUIRED FOR PROPER ASSEMBLY



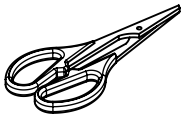
ALLEN:
1.5 MM.
2.0 MM.
2.5 MM.
3.0 MM.



RING PLIERS



SIDE CUTTER



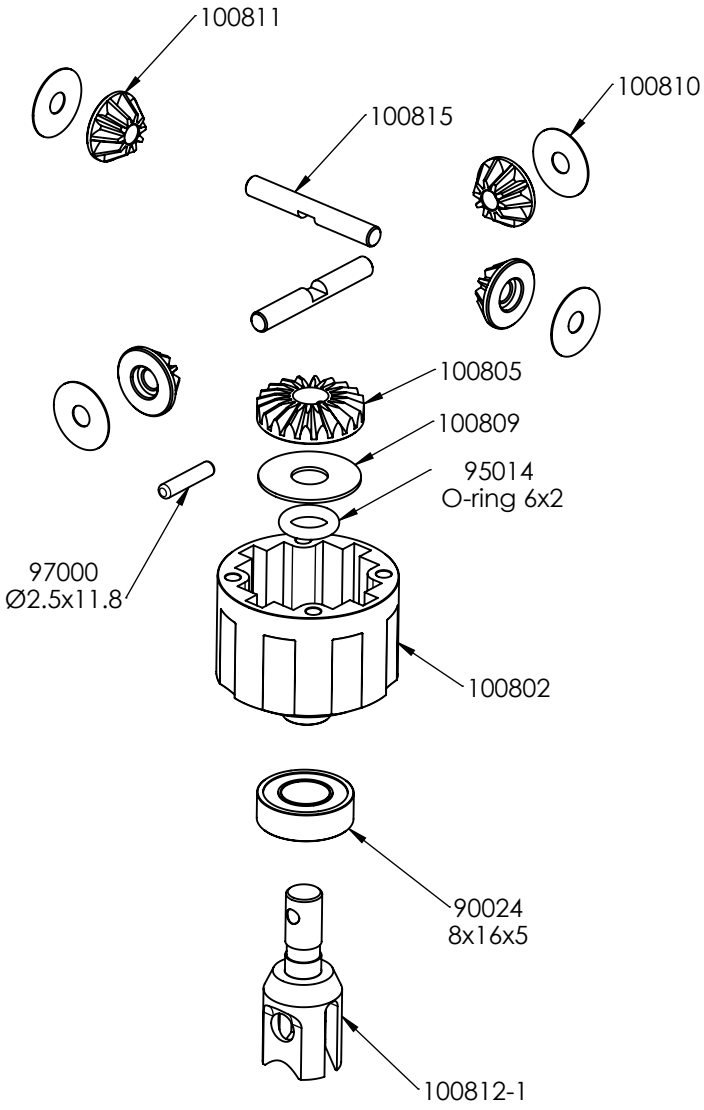
SCISSORS

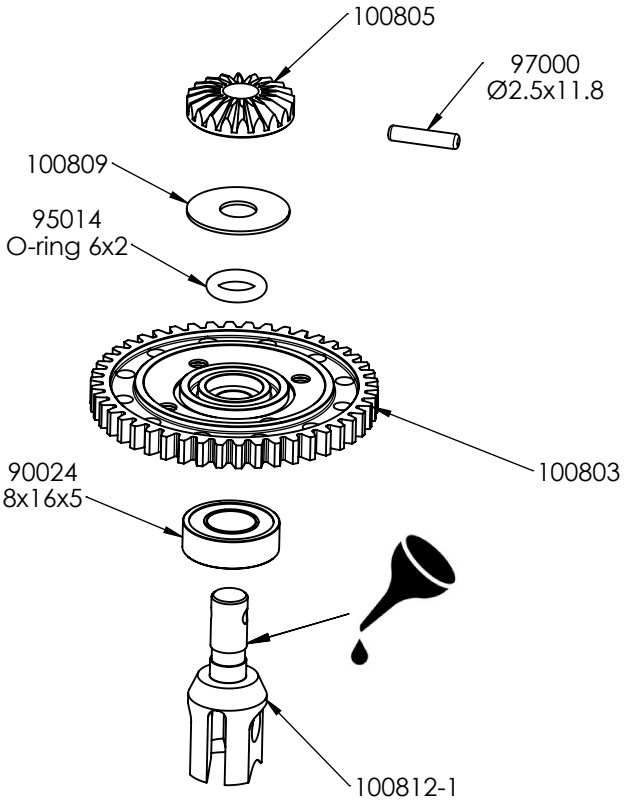
NOTICE:

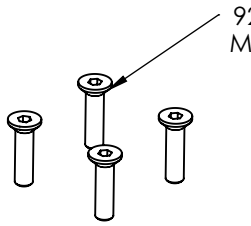
THE FOLLOWING ITEMS ARE NEEDED FOR COMPLETION OF THE SBX; THEY ARE NOT INCLUDED IN THIS KIT (UNLESS NOTED) AND SHOULD BE OBTEINED FROM YOUR LOCAL HOBBY SHOP.
BE SURE TO READ THE INSTRUCTION COMPLETELY PRIOR TO ASSEMBLY

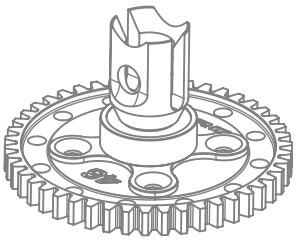
BAG 1

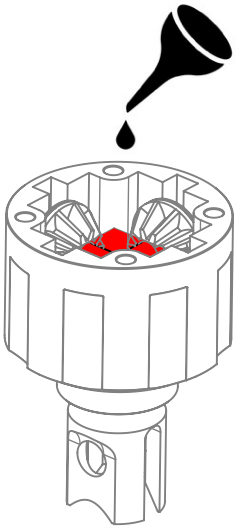
Central Diff. Gear





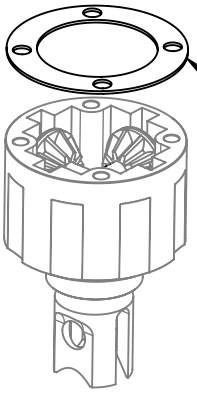






DIFFERENTIAL OIL :
Central : 5000 cst
Weight : 3 g

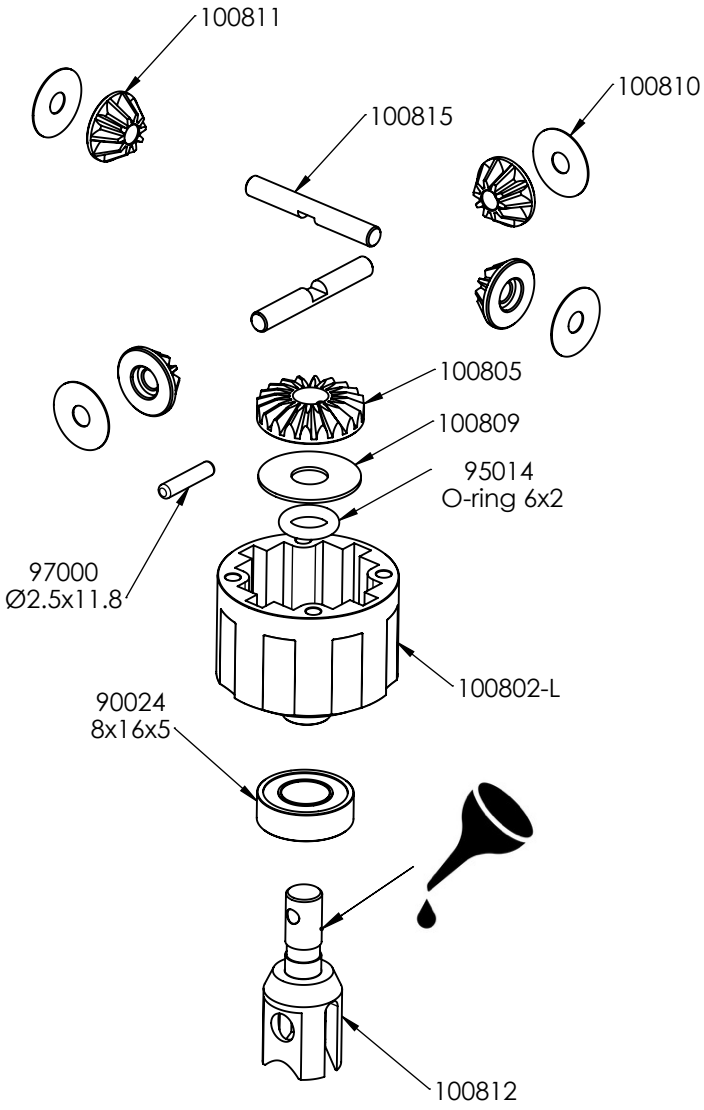
Fill the differential up to the top of the pin.
DO NOT fill the diff. to the top of the housing.

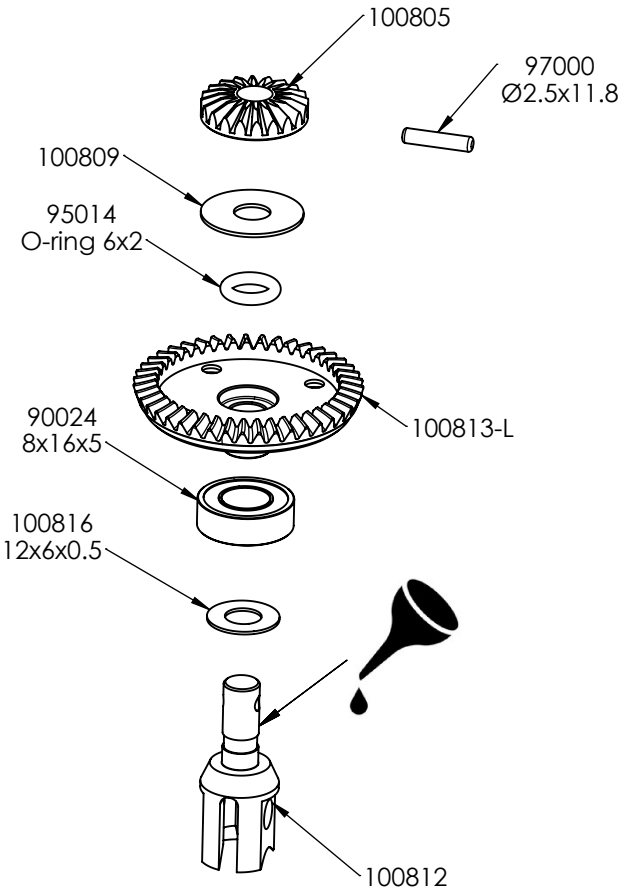


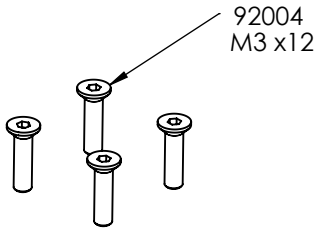
OPTIONAL
100804-01 (0.1mm)
100804-02 (0.2mm)

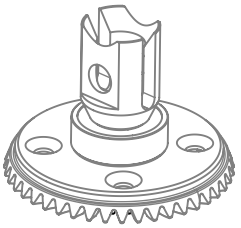
BAG 2

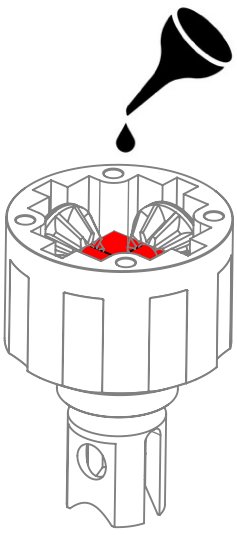
Front Diff. Gear





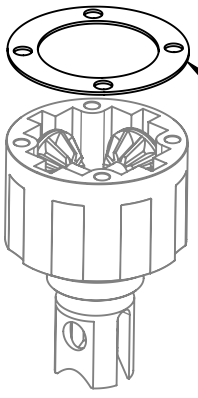






DIFFERENTIAL OIL :
Front : 5000 cst
Weight : 3 g

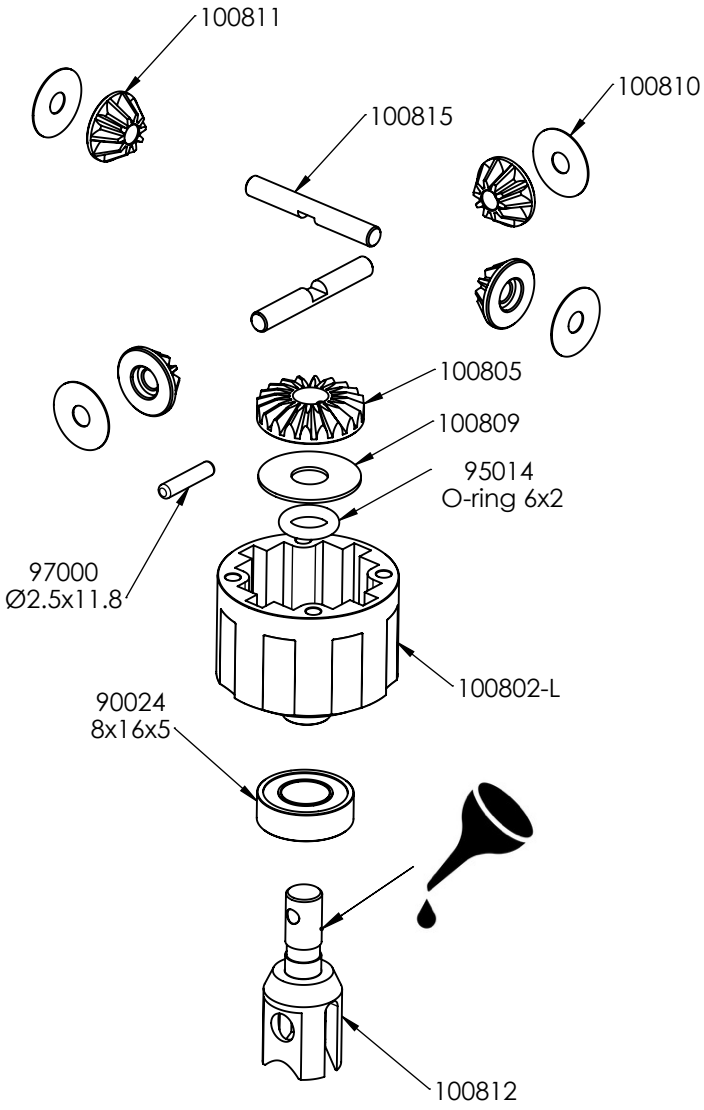
Fill the differential up to the top of the pin.
DO NOT fill the diff. to the top of the housing.

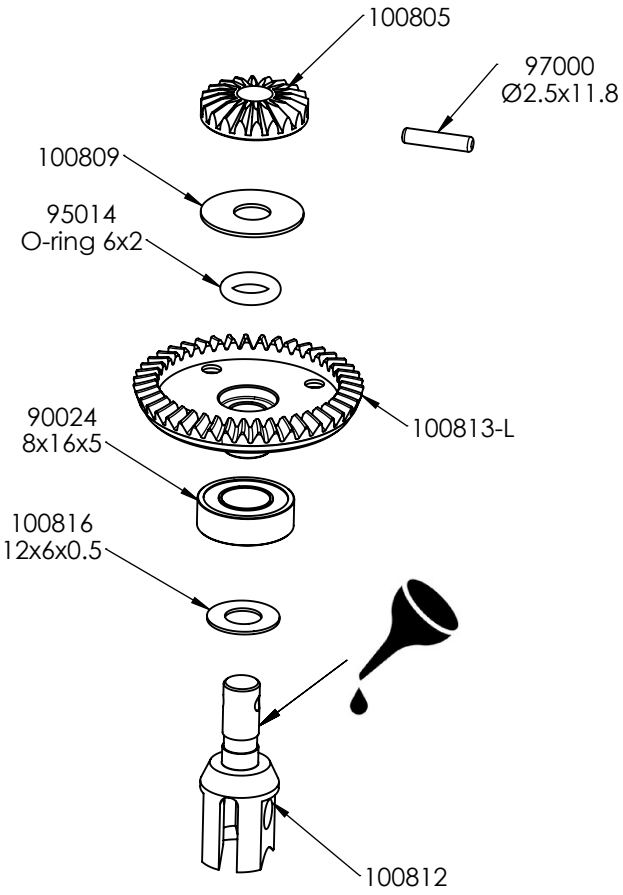


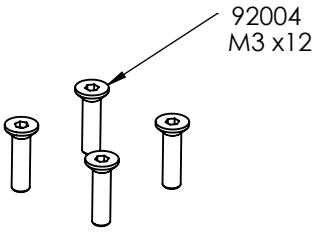
OPTIONAL
100804-01 (0.1mm)
100804-02 (0.2mm)

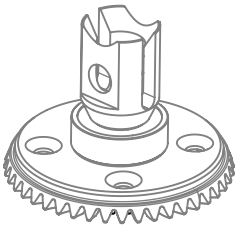
BAG 3

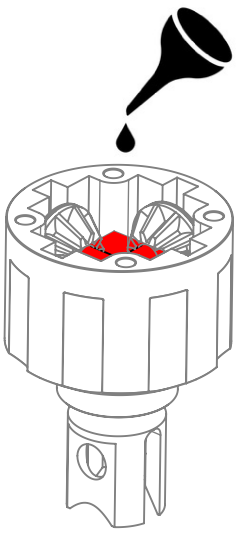
Rear Diff. Gear





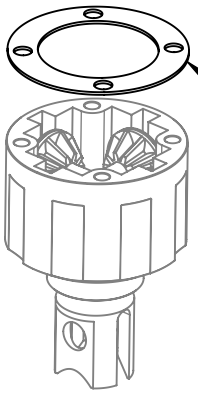






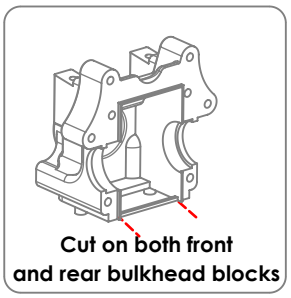
DIFFERENTIAL OIL :
Rear : 2000 cst
Weight : 3 g

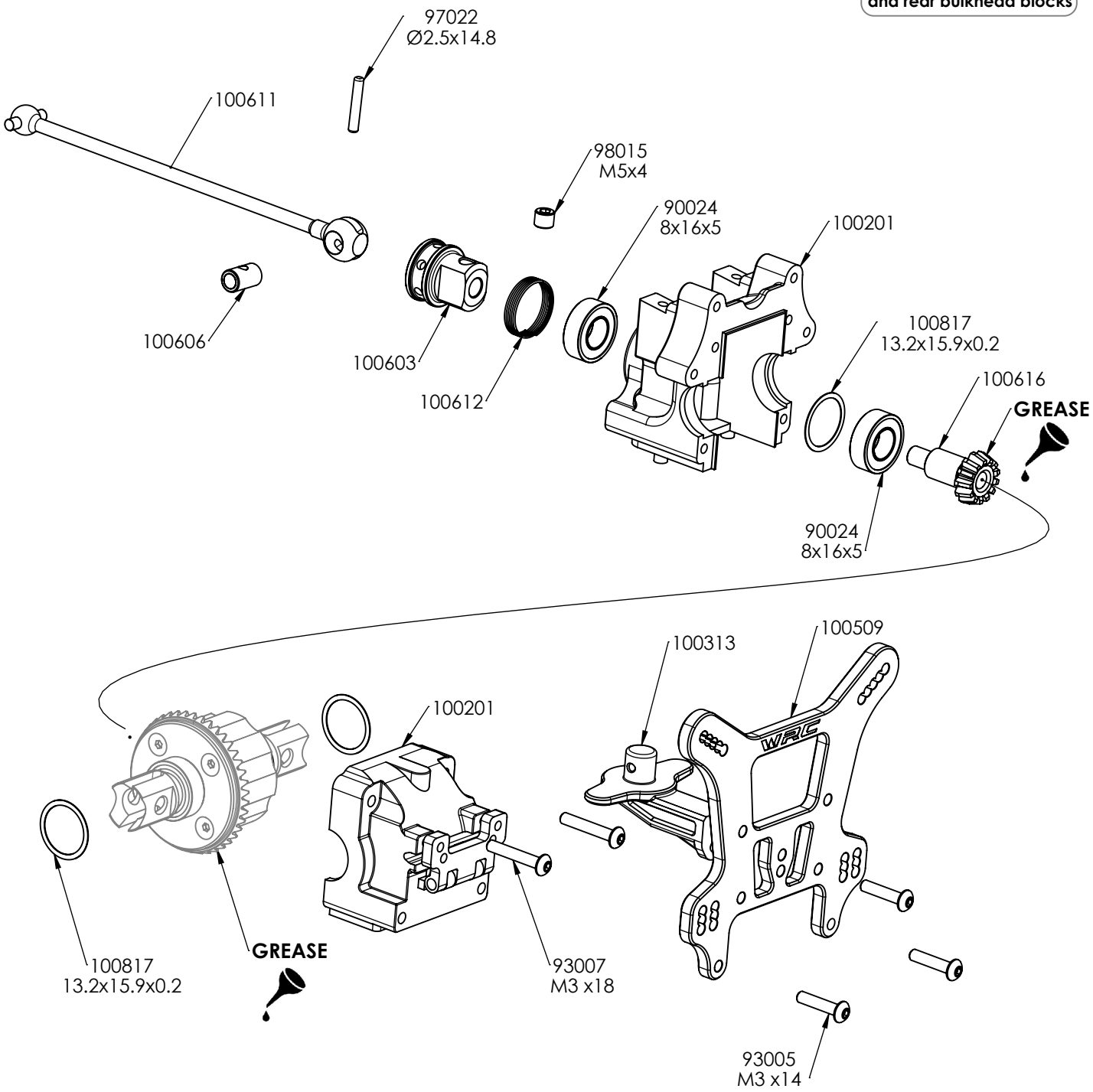
Fill the differential up to the top of the pin.
DO NOT fill the diff. to the top of the housing.



BAG 4

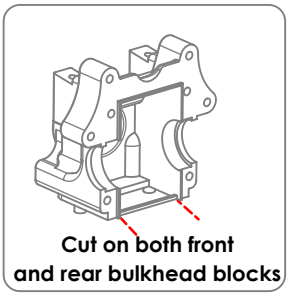
Rear Transmission

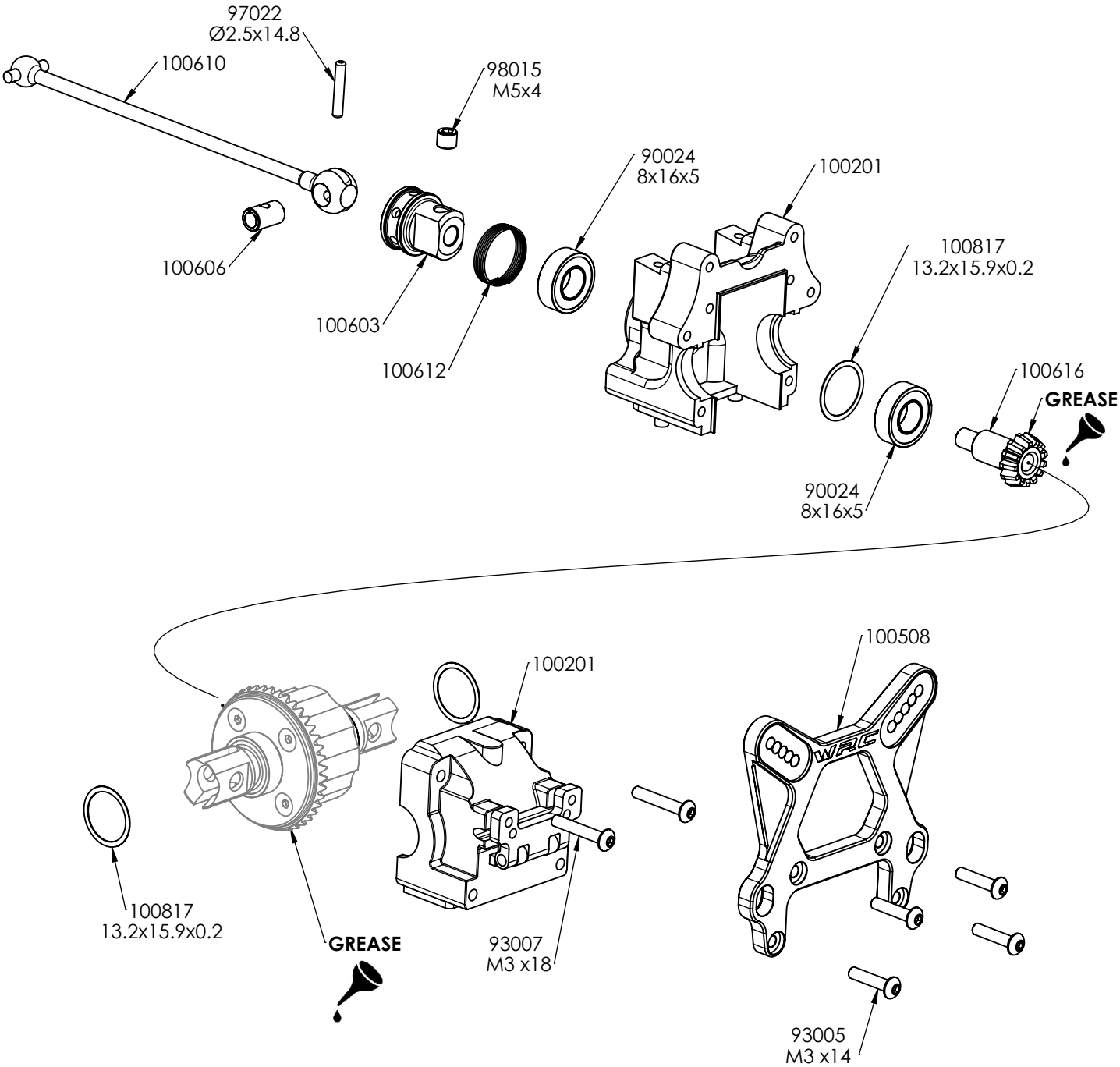




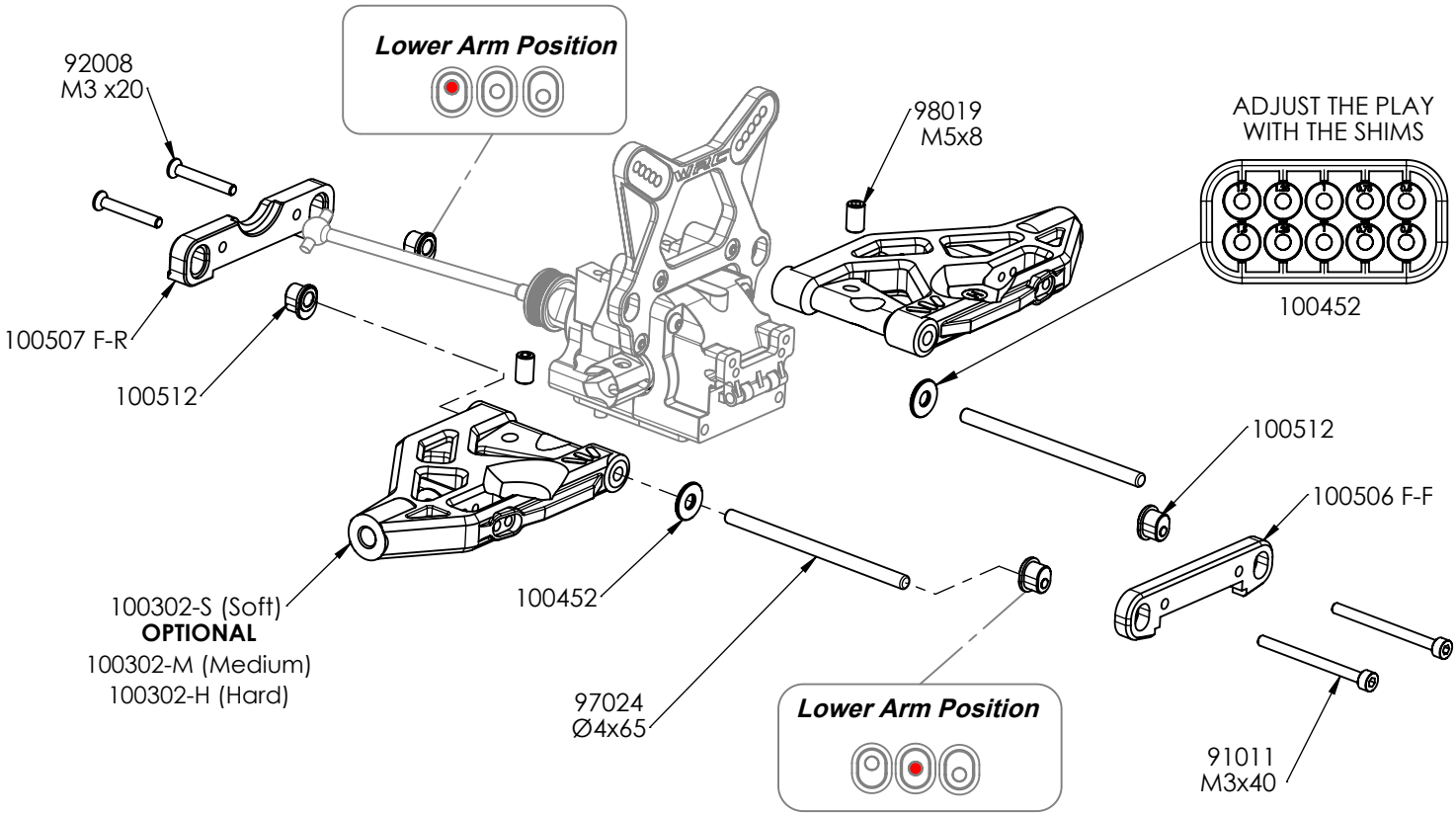
Front Transmission

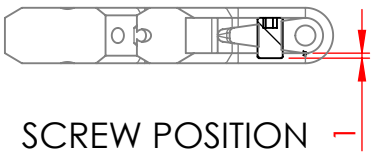
BAG 5

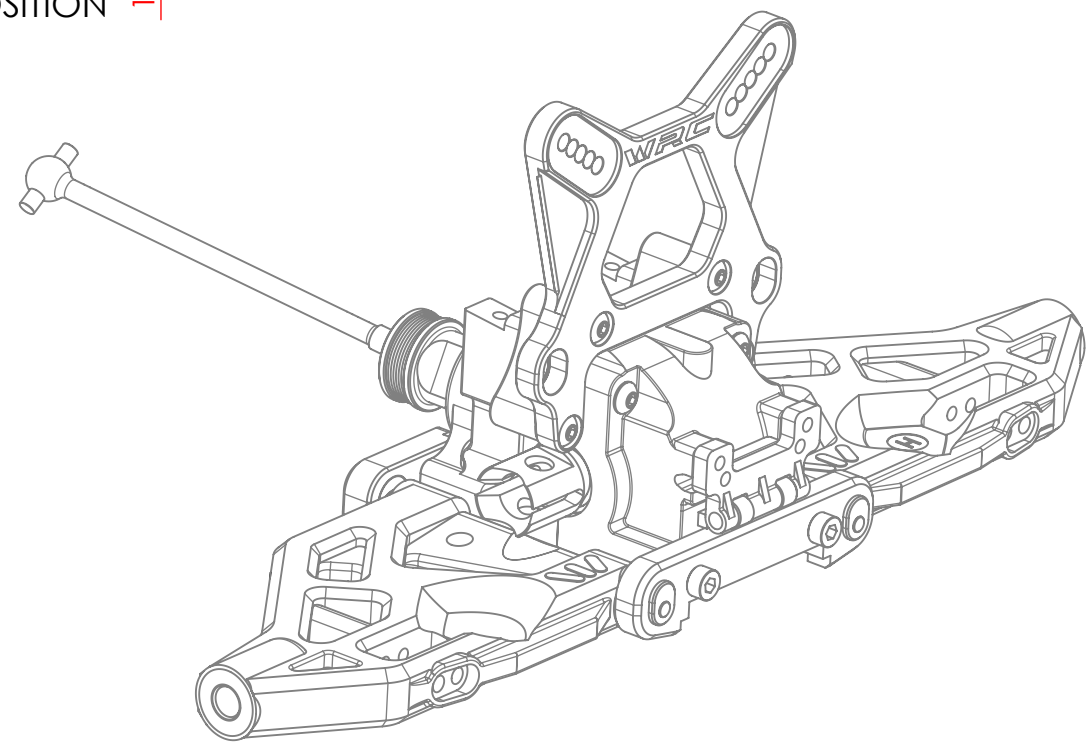




BAG 6

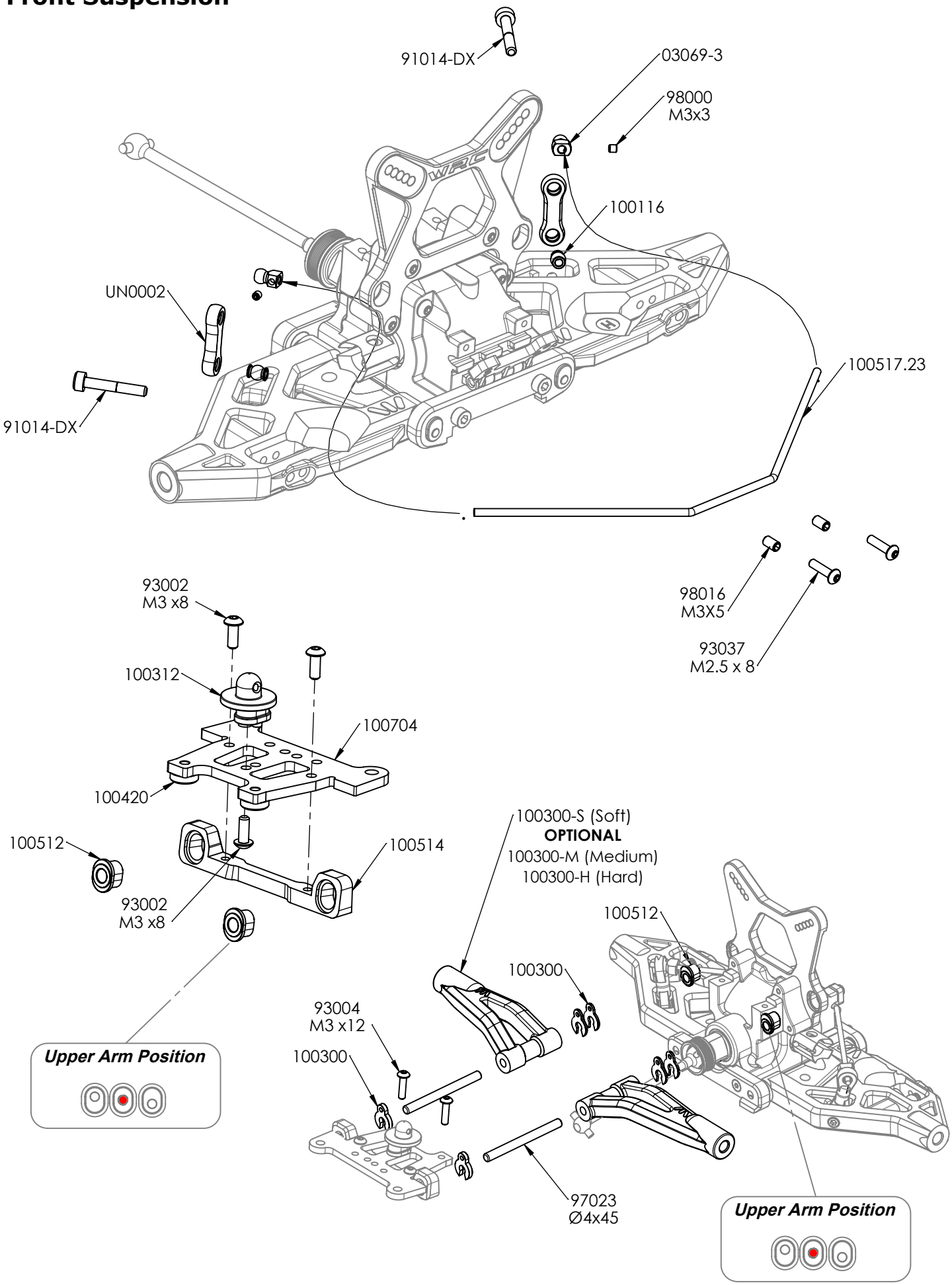

Lower Arm Position
92008
M3 x20
98019
M5x8
ADJUST THE PLAY
WITH THE SHIMS
100452
100507 F-R
100512
100512
100506 F-F
100302-S (Soft)
OPTIONAL
100302-M (Medium)
100302-H (Hard)
100452
97024
Ø4x65
Lower Arm Position
91011
M3x40


SCREW POSITION



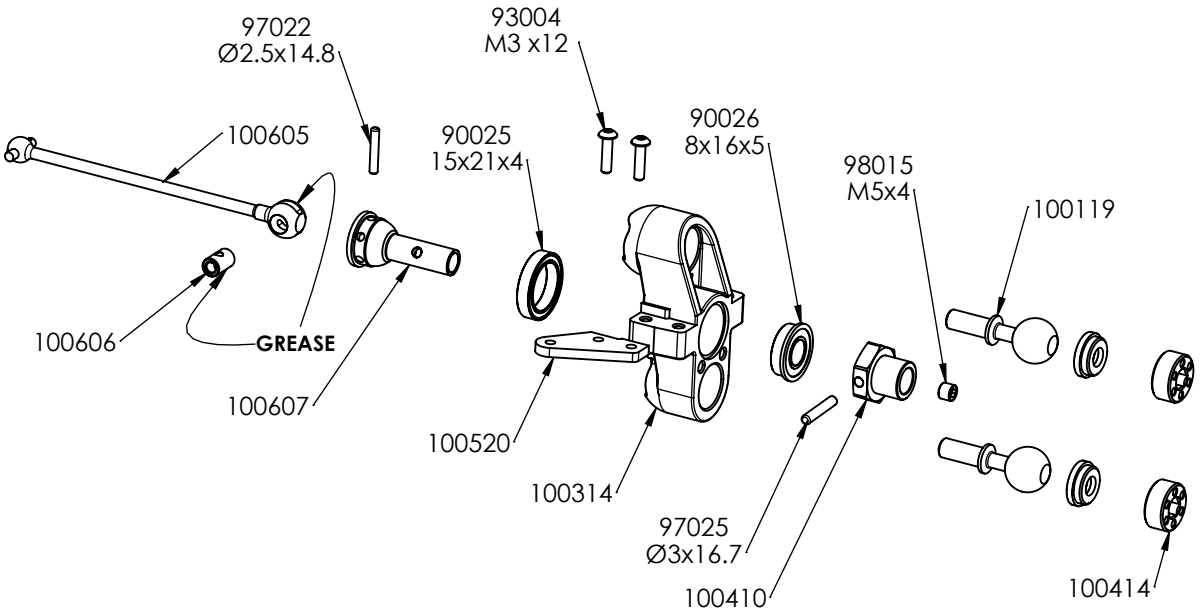
BAG 7

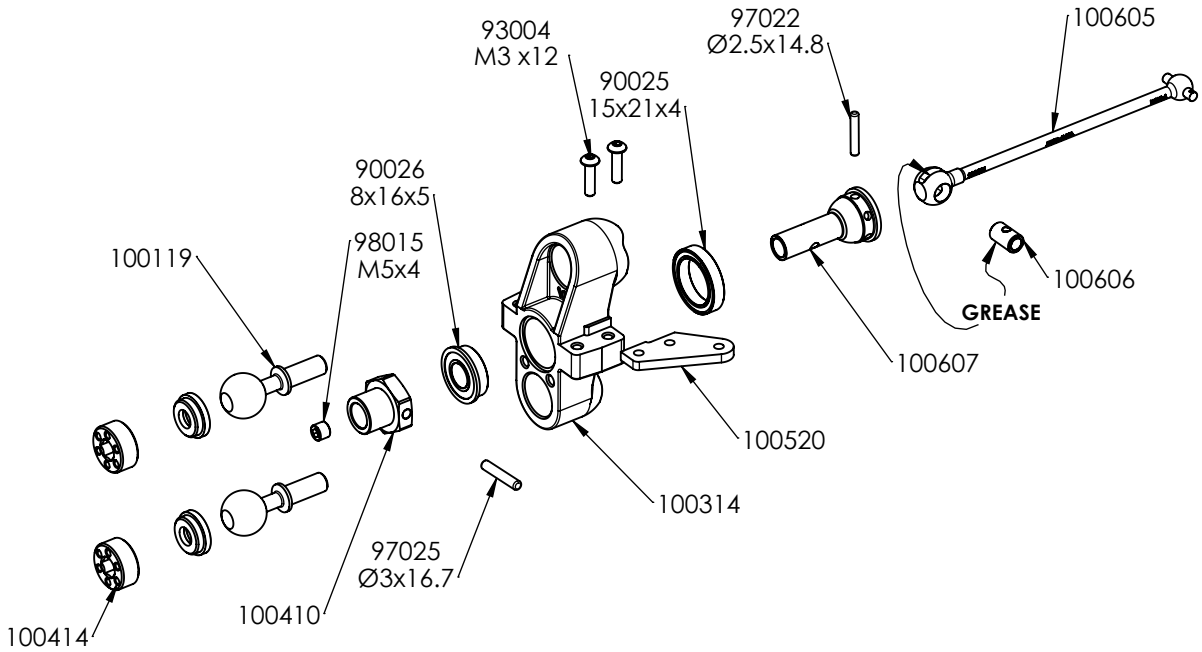
Front Suspension

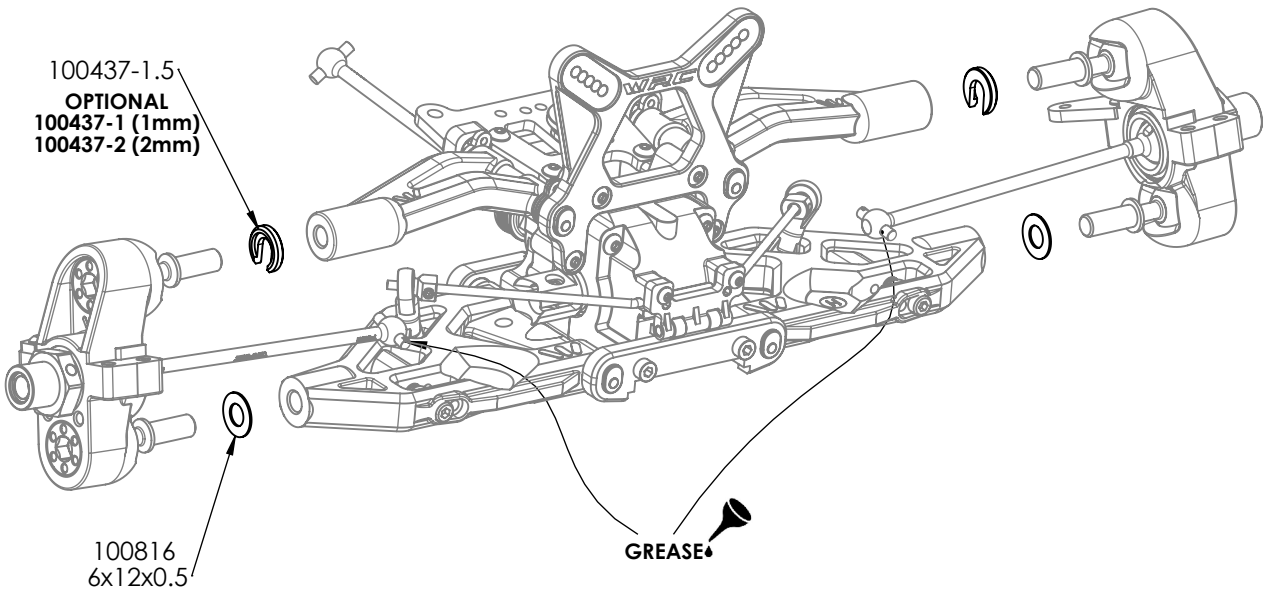


BAG 8

Front Upright

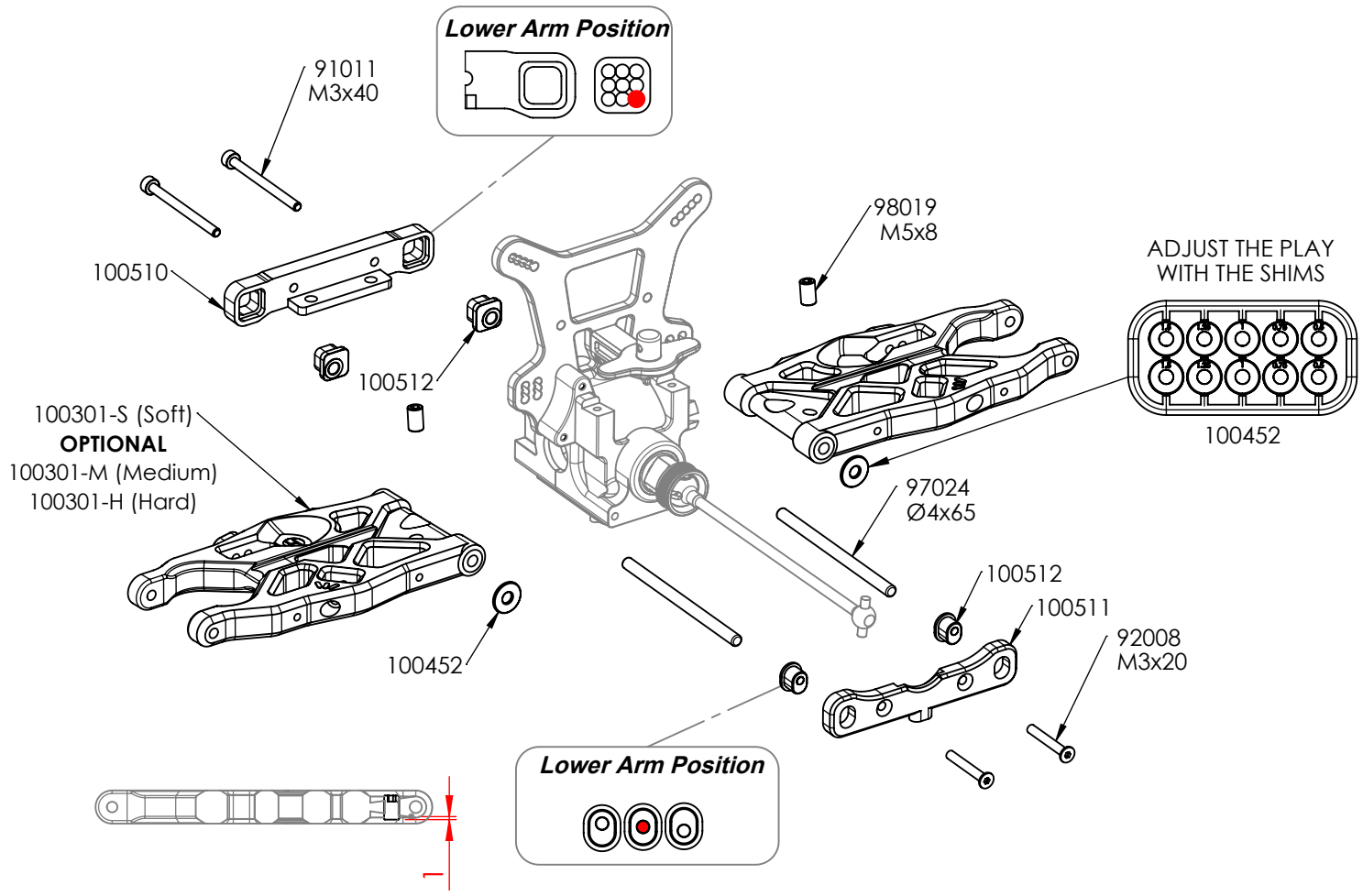


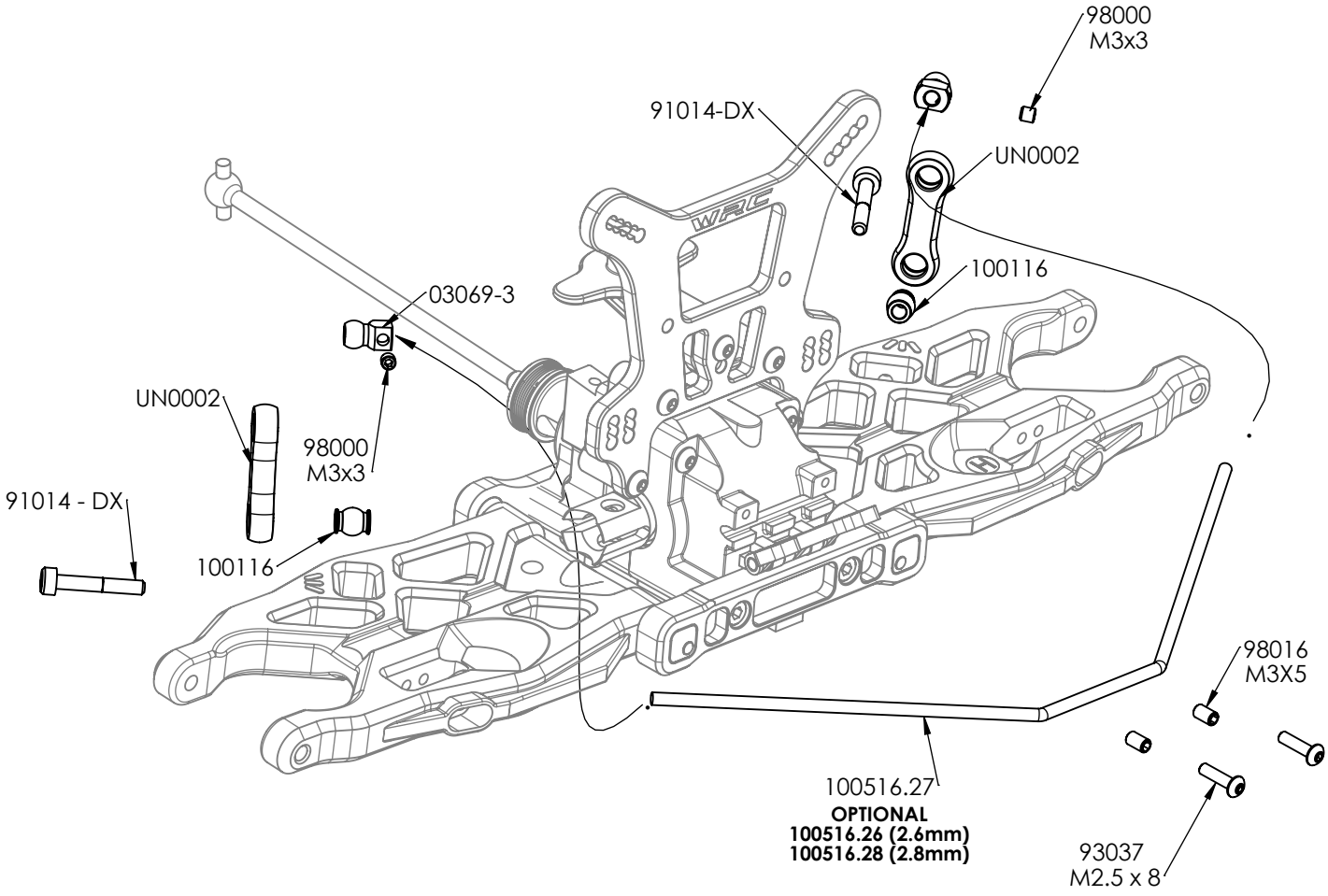




BAG 9

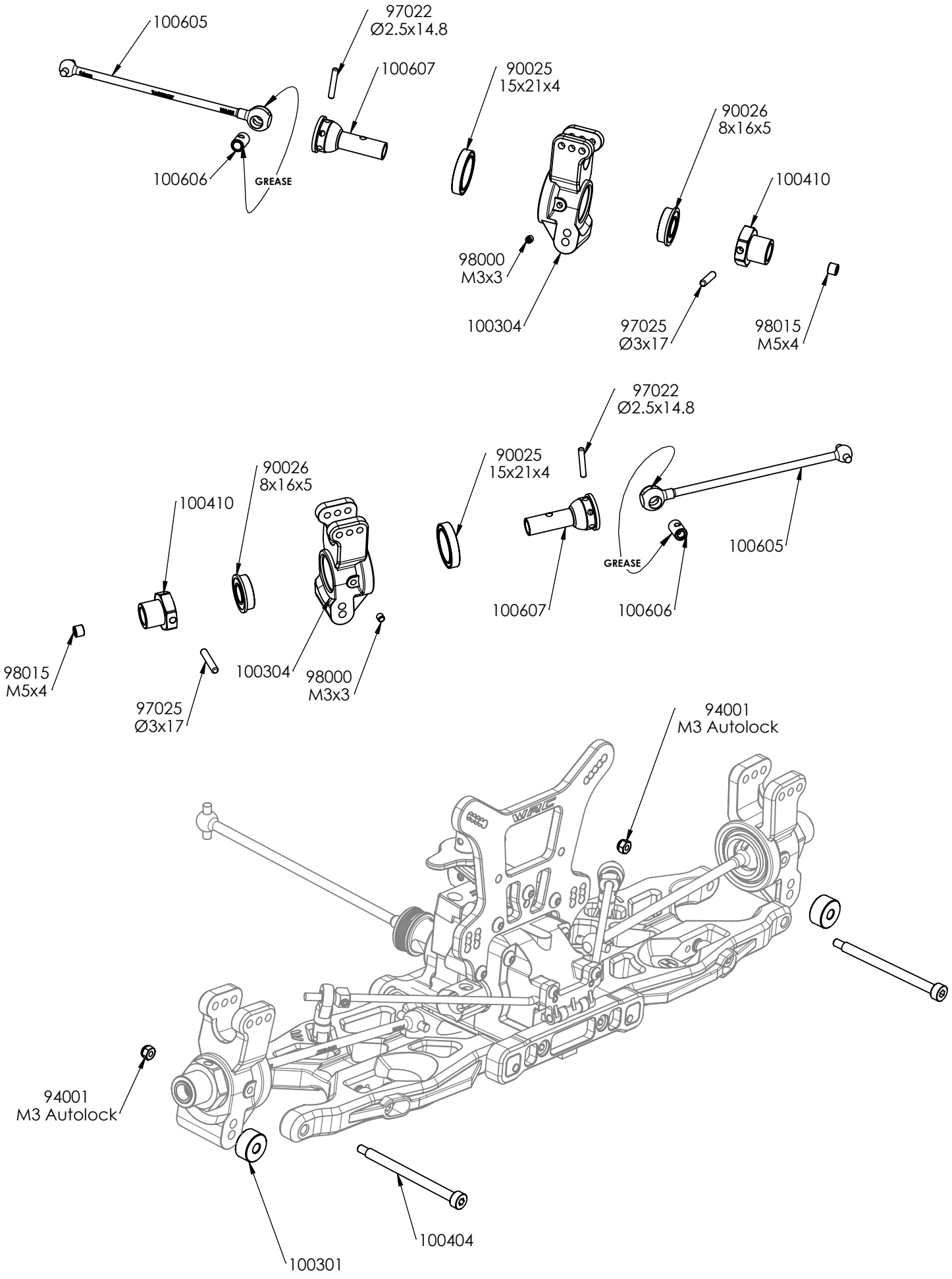
Rear Suspension





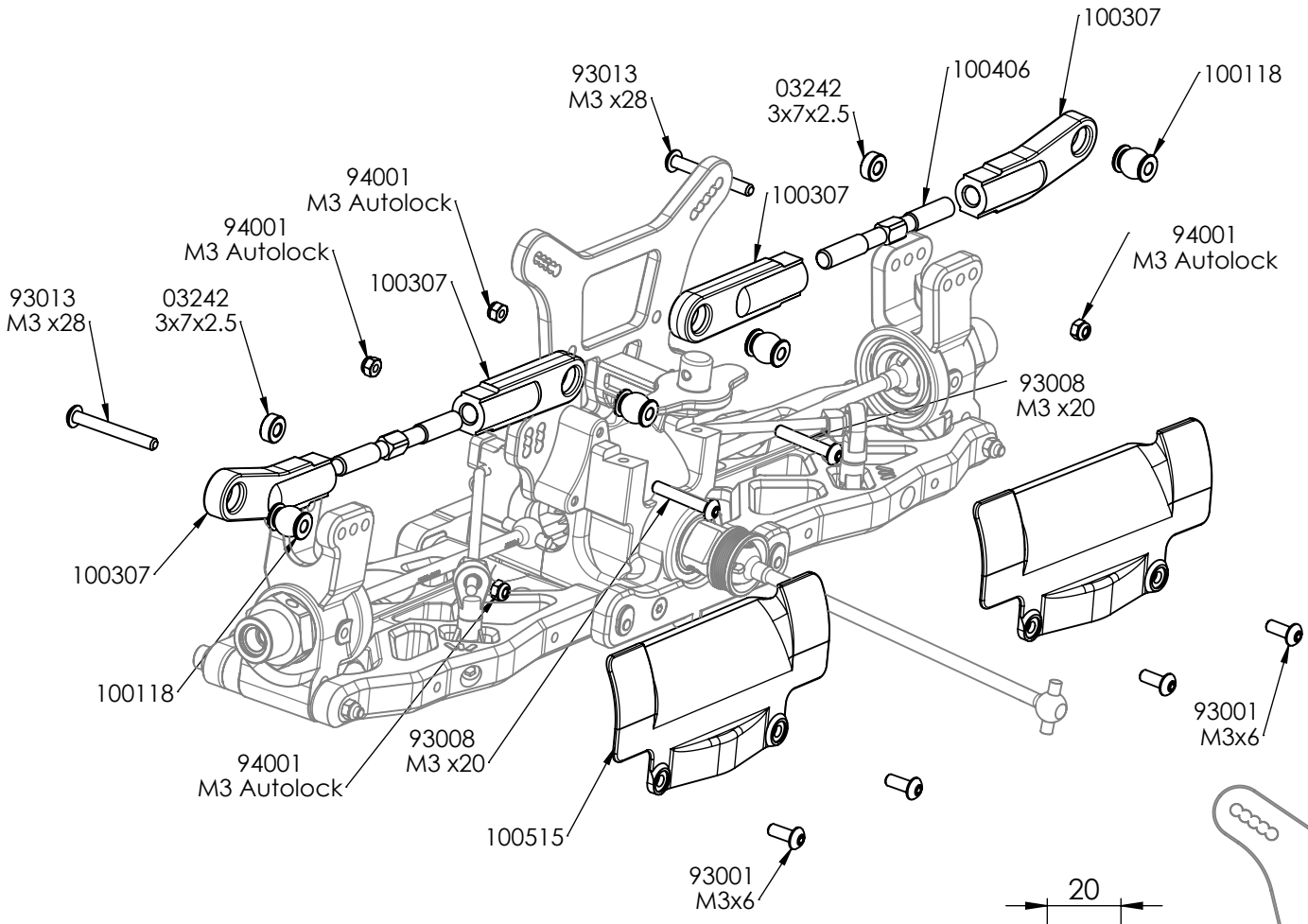
BAG 10

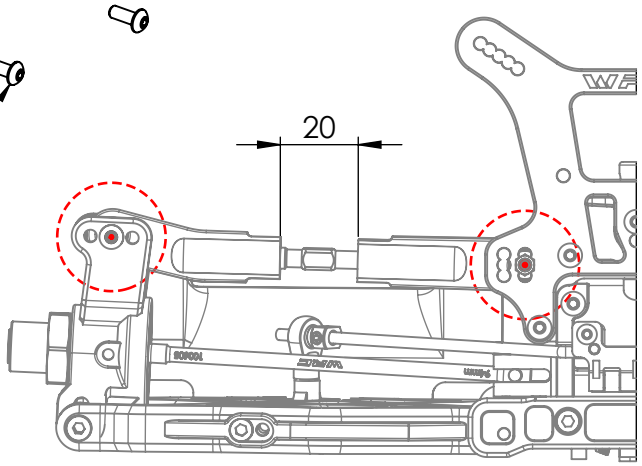
Rear Suspension

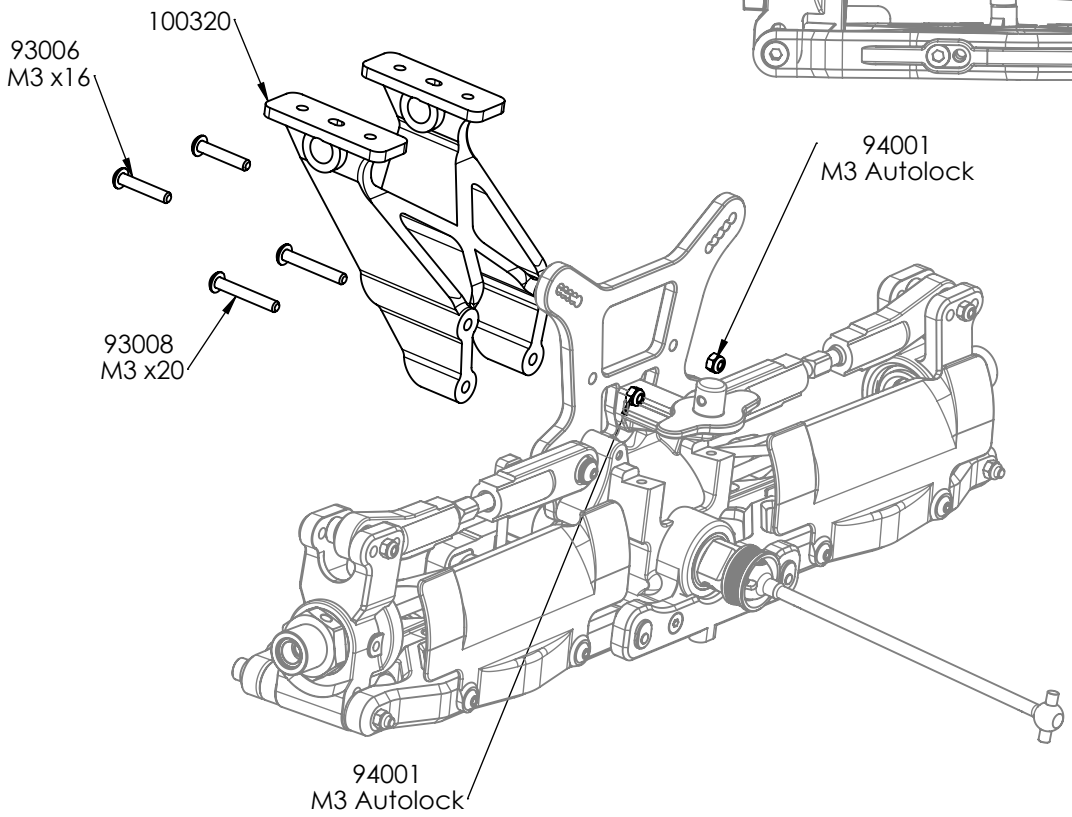


BAG 11

Rear Suspension

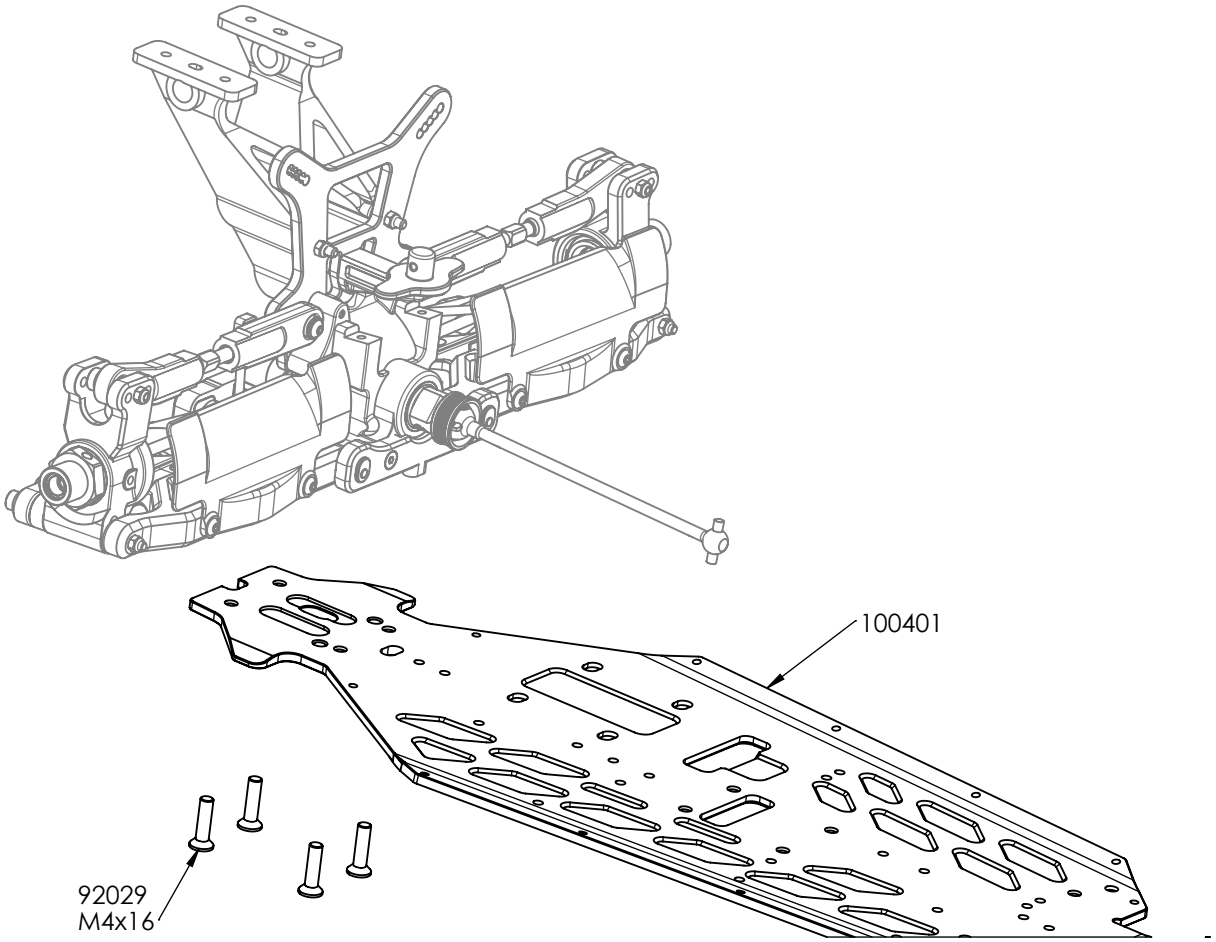


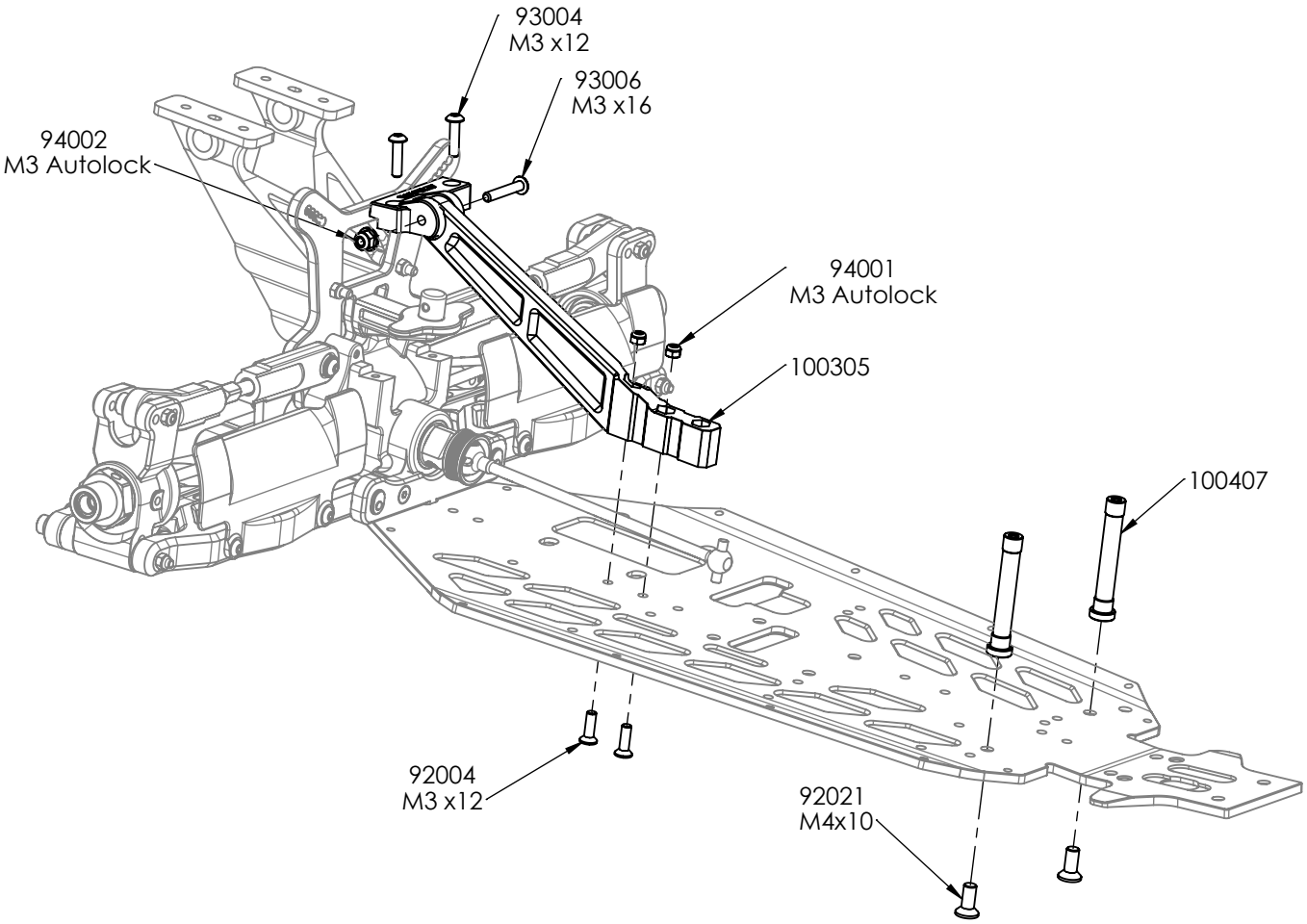




BAG 12

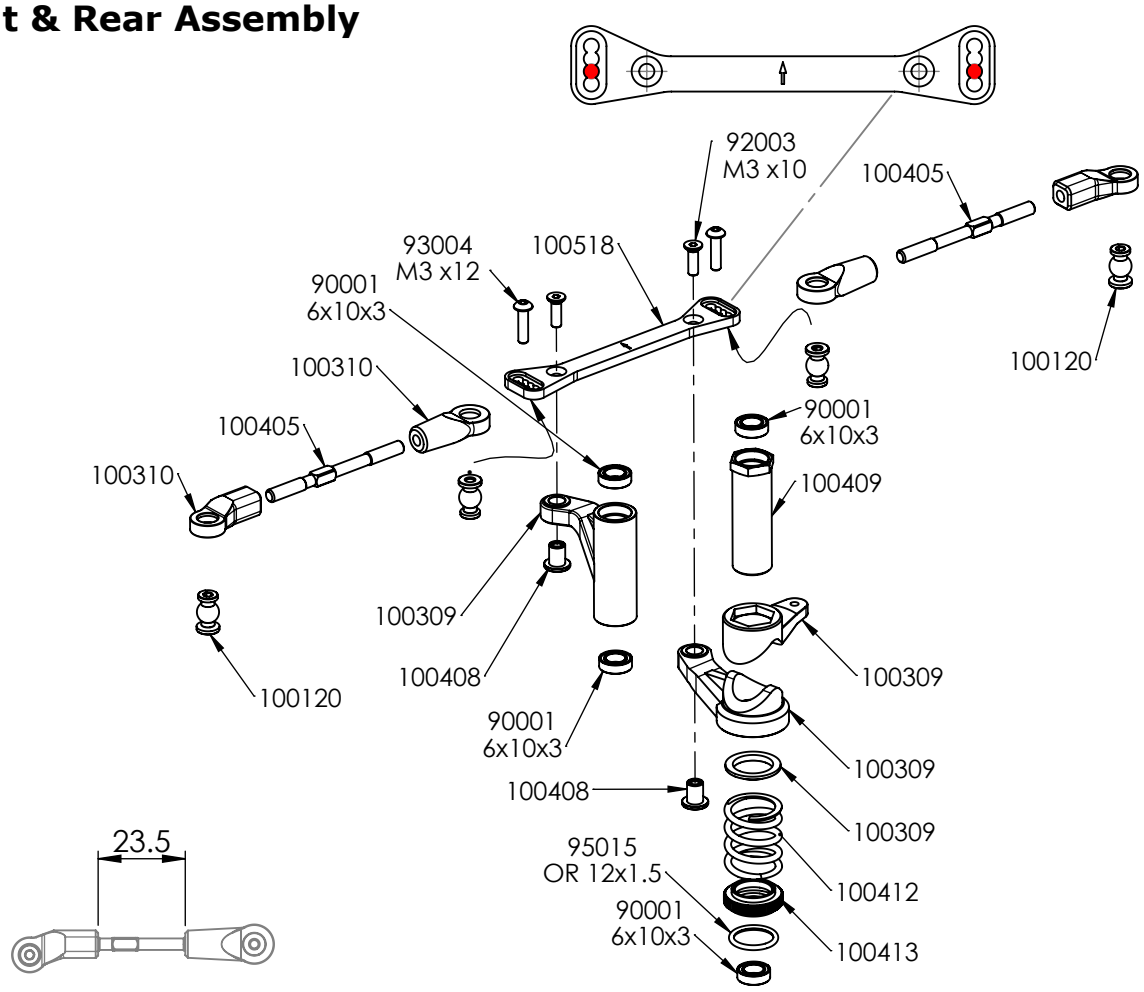
Front & Rear Assembly

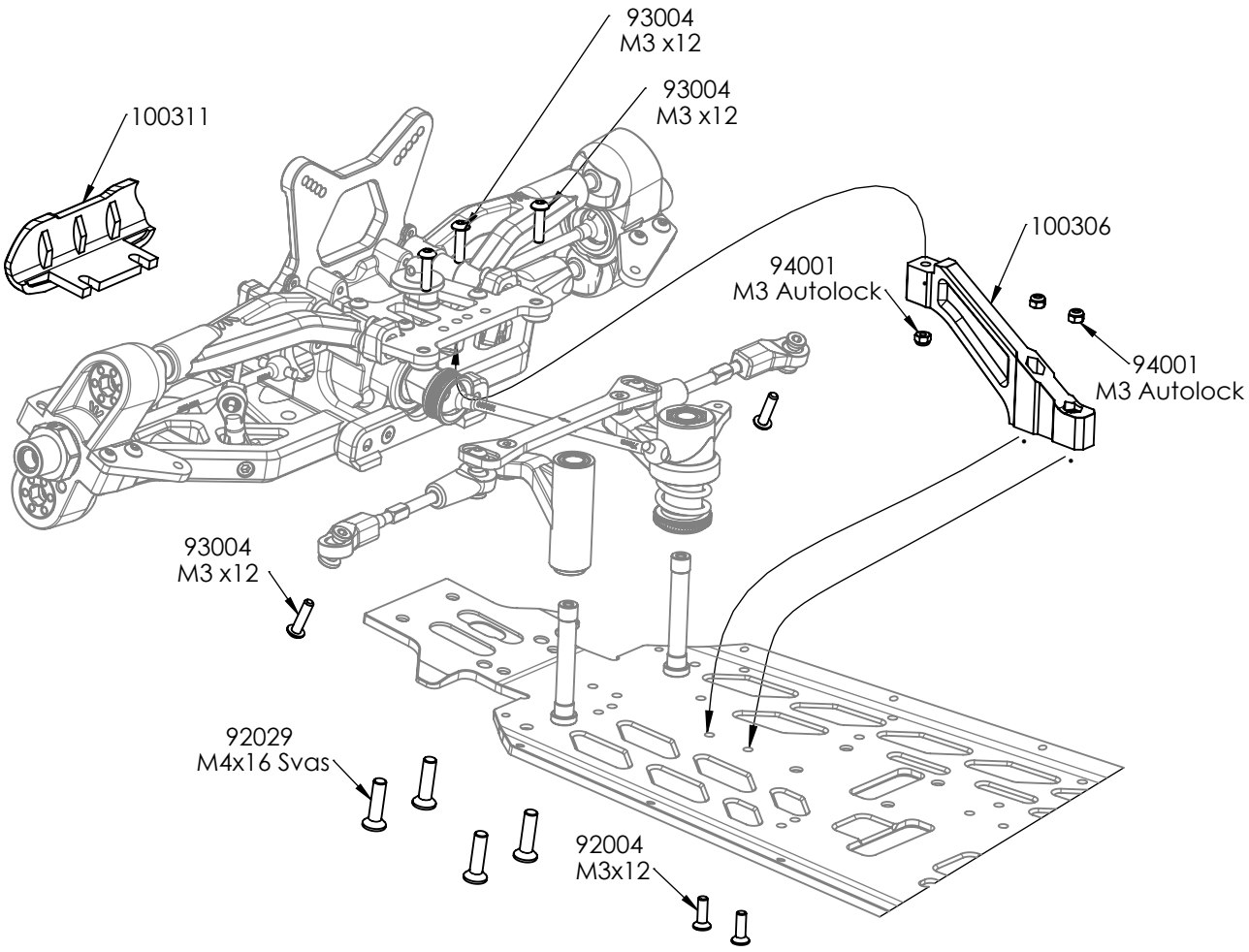




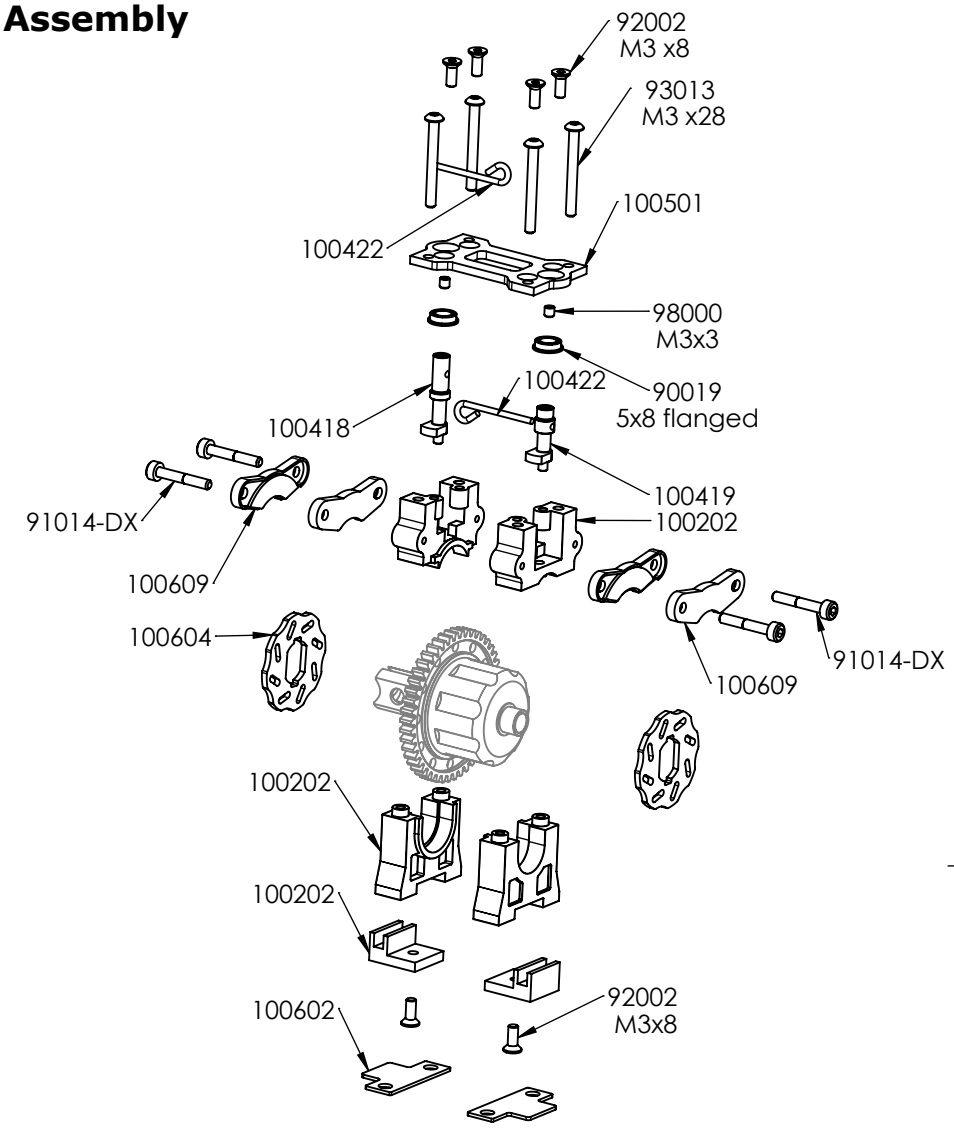
BAG 12

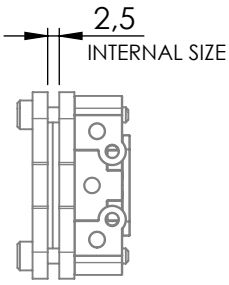
Front & Rear Assembly

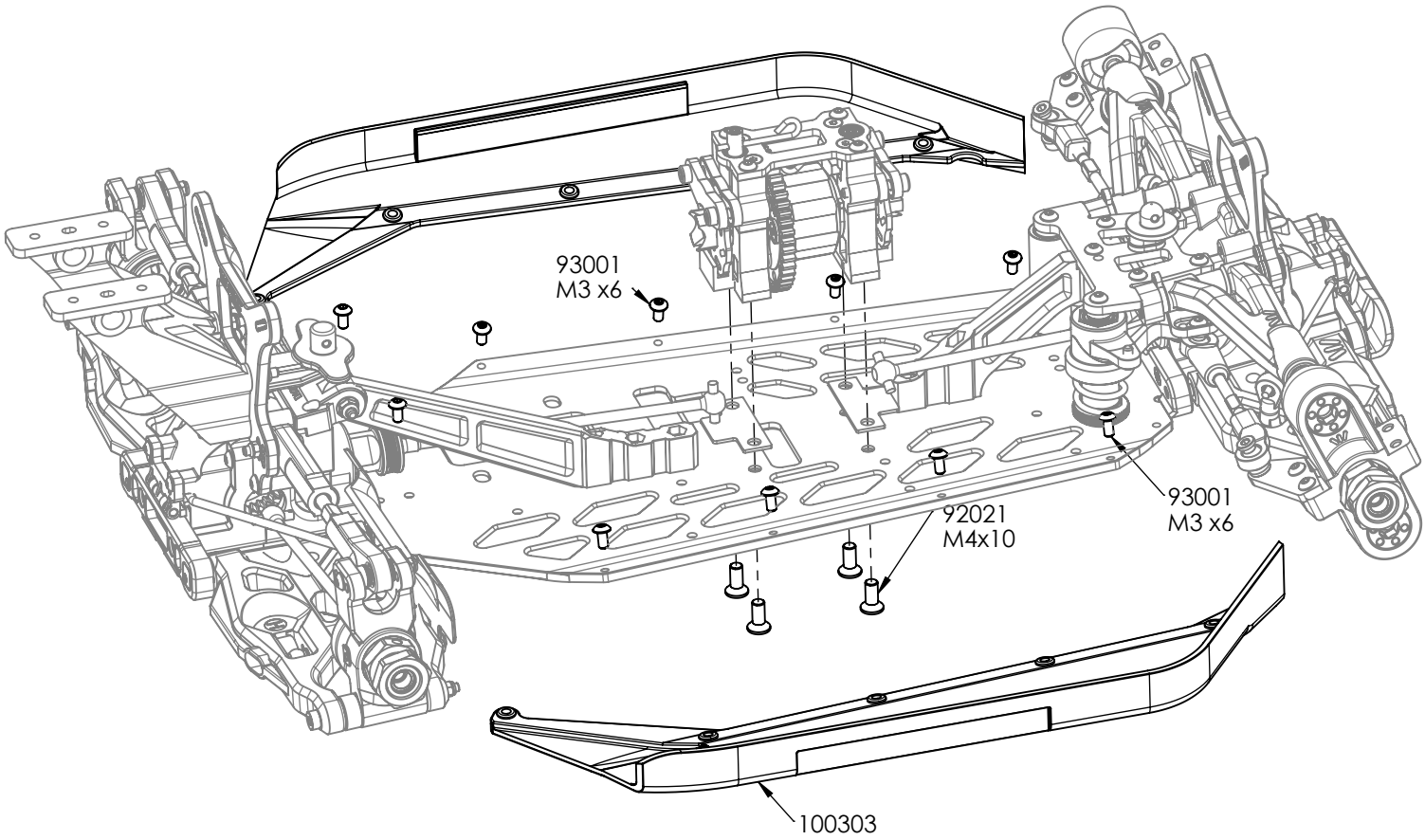




BAG 13

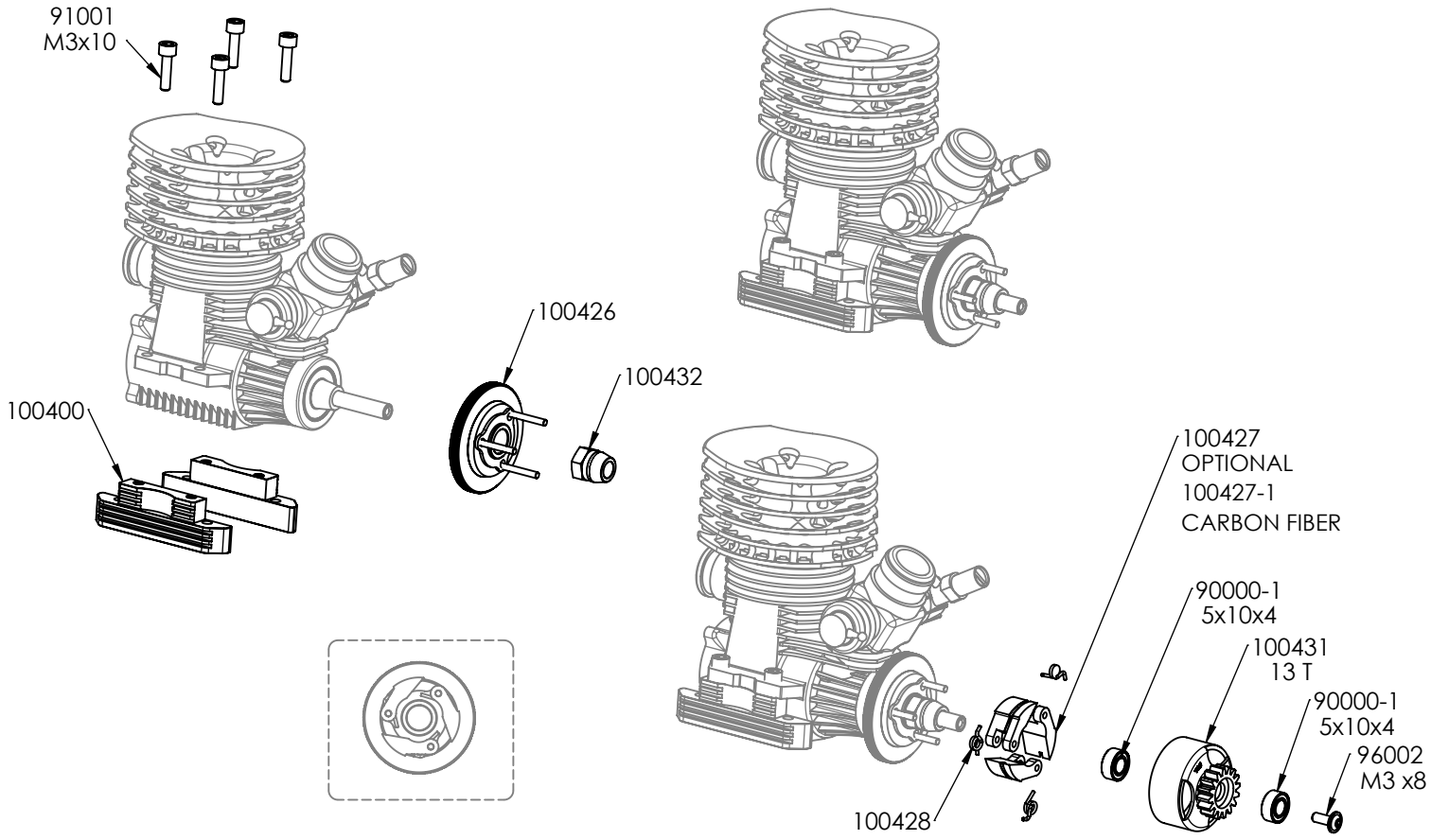

92002
M3 x8
93013
M3 x28
100501
100422
98000
M3x3
100422
90019
5x8 flanged
100418
100419
100202
91014-DX
100609
100604
91014-DX
100609
100202
100202
100602
92002
M3x8

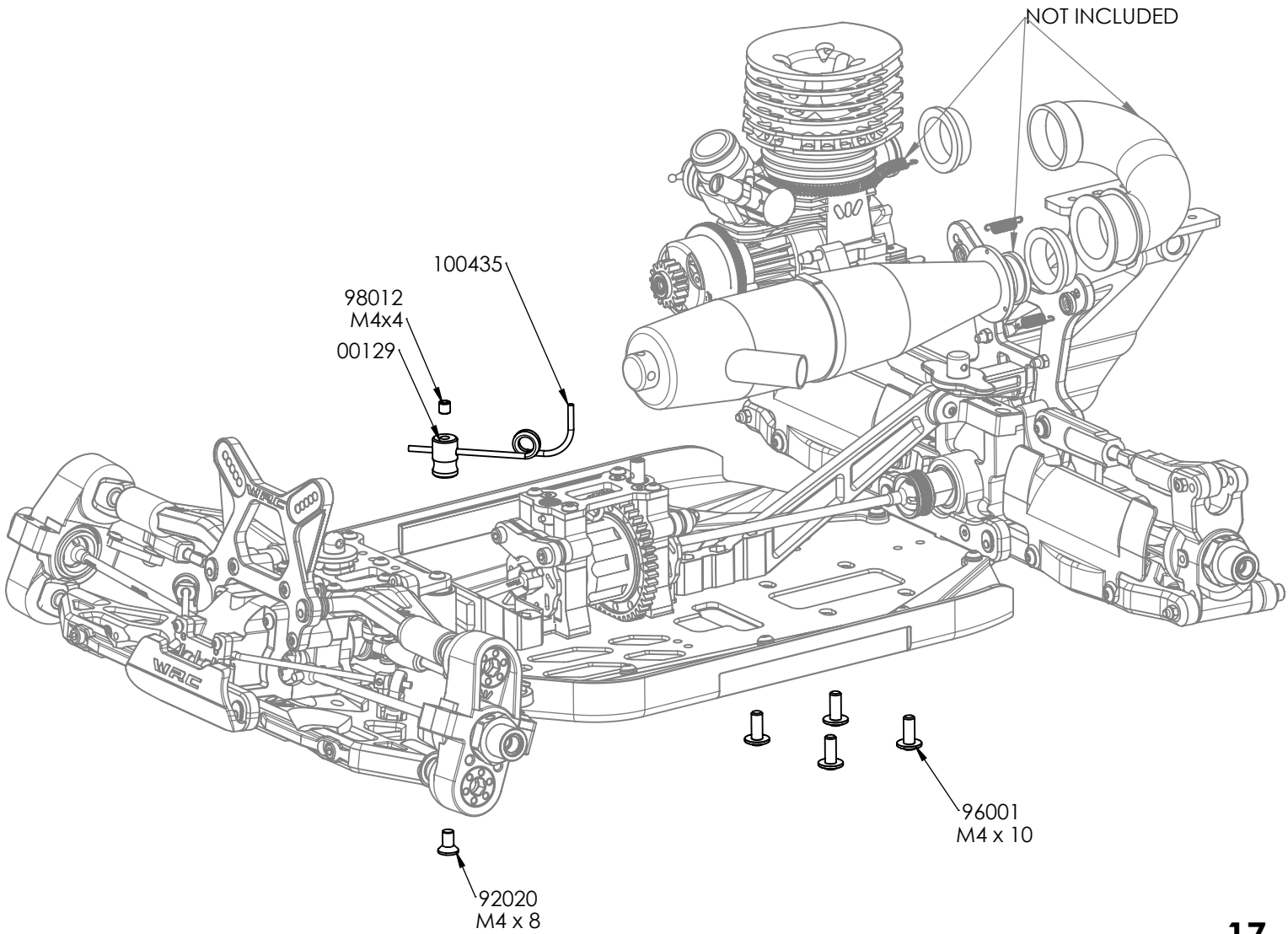

2,5
INTERNAL SIZE


93001
M3 x6
93001
M3 x6
92021
M4x10
100303

BAG 14

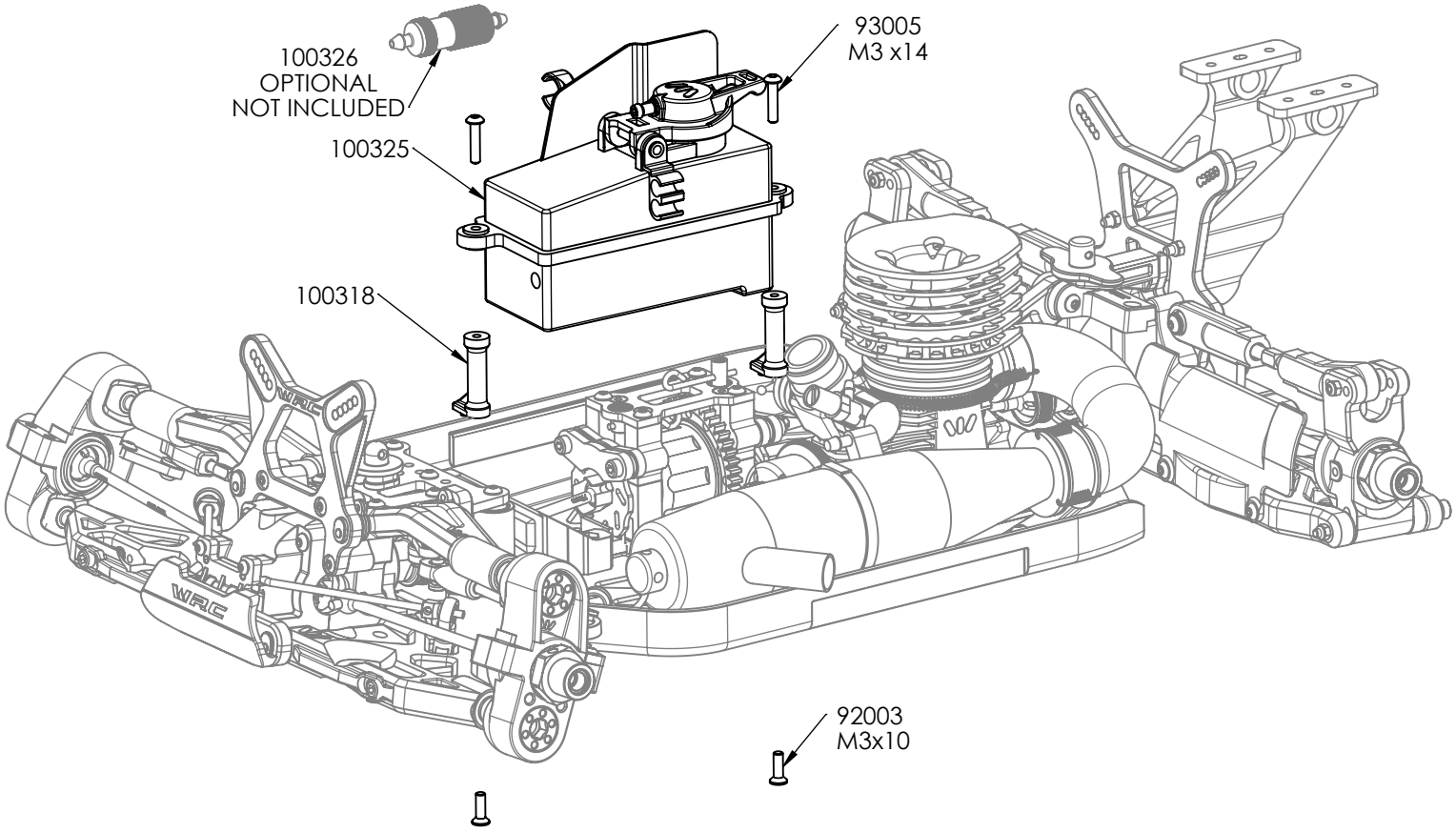
Engine

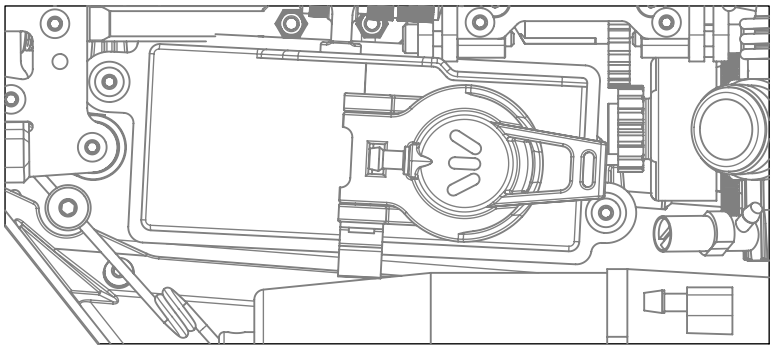




BAG 15

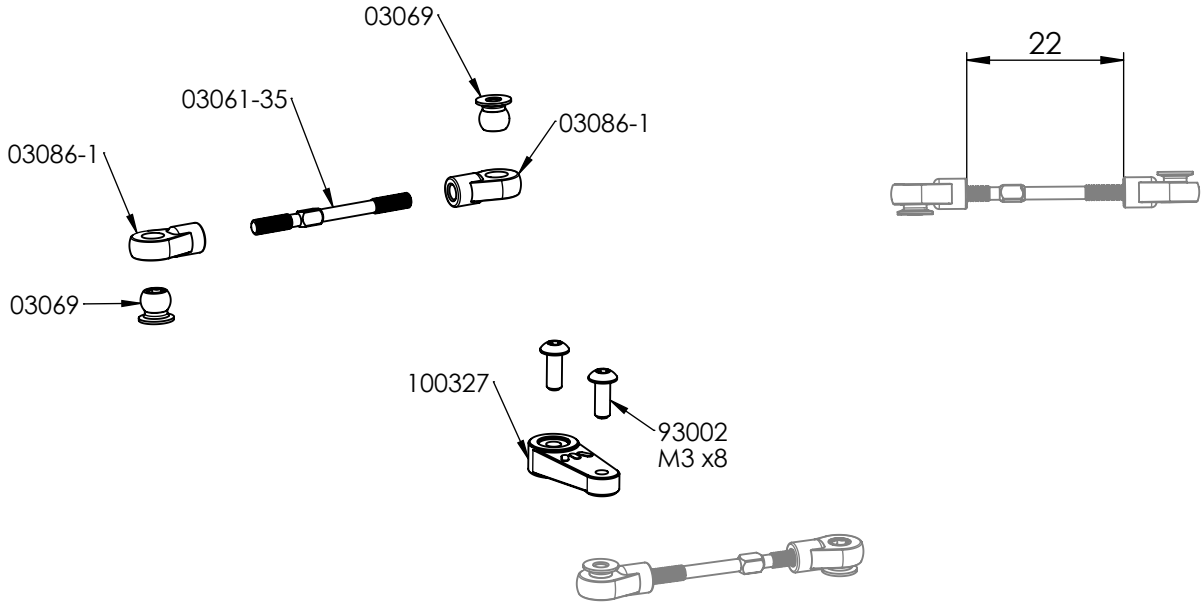
Fuel Tank

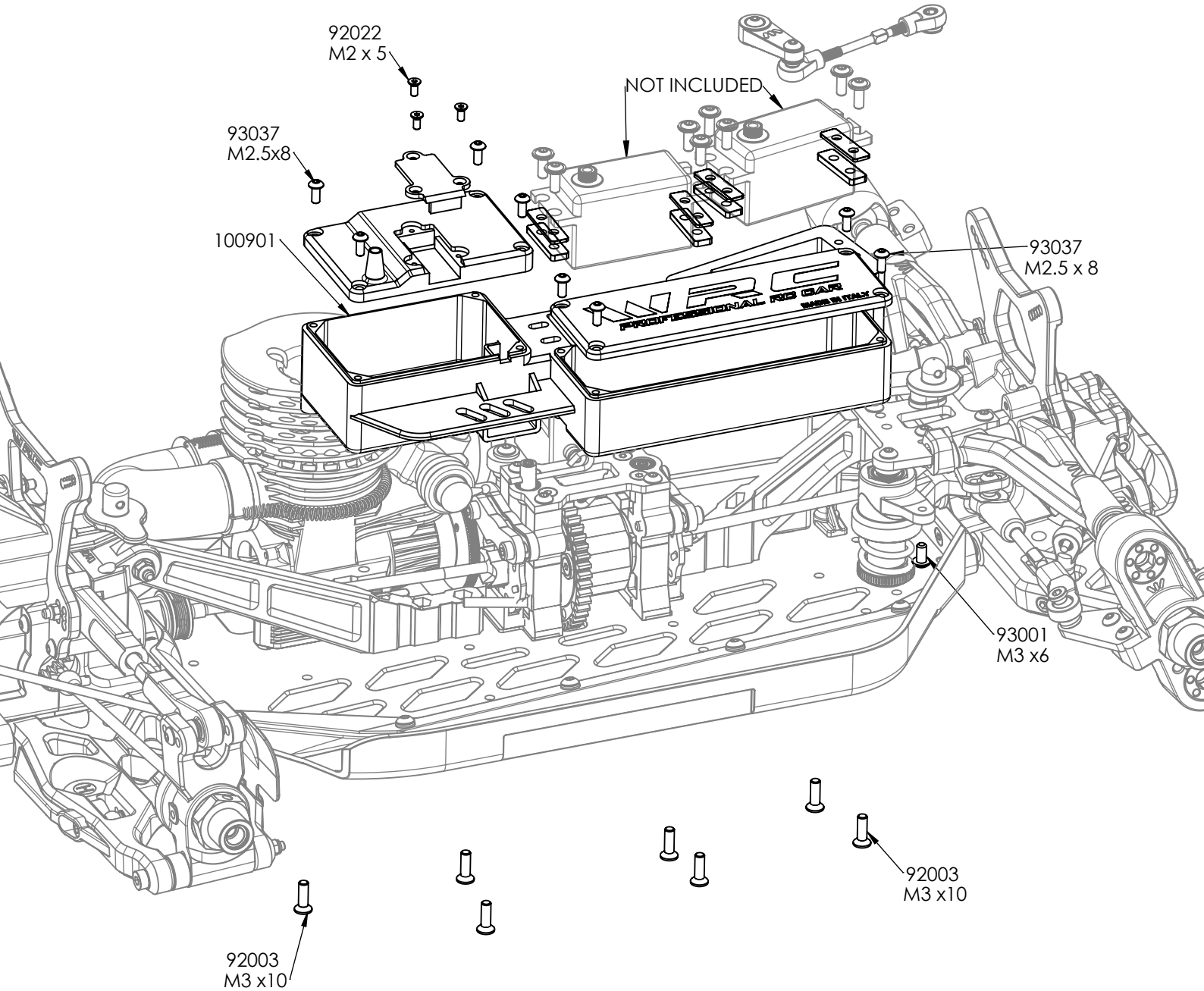




BAG 16

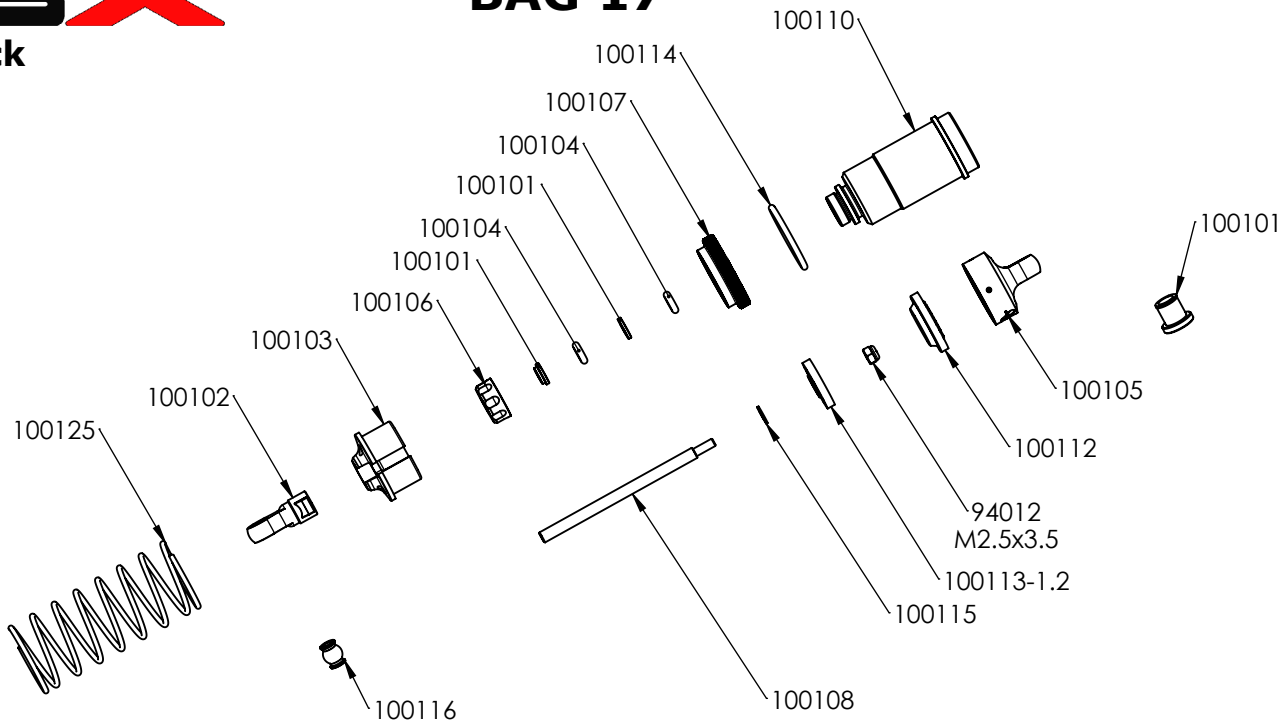
Radio Case



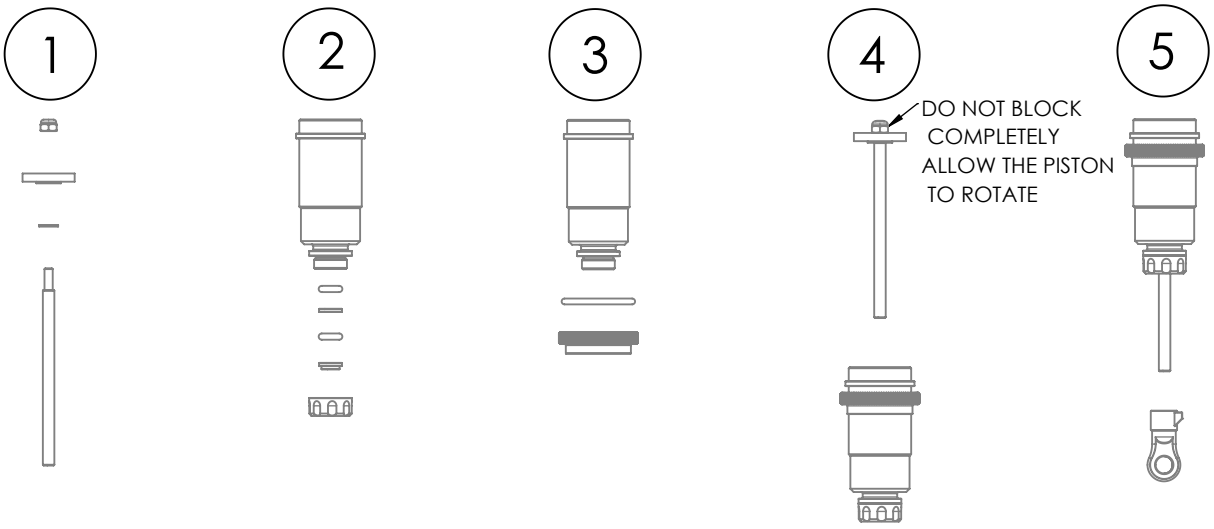


Front Shock

BAG 17



Assembly 2 set



SHOCK FILLING

Fully extend the piston rod so the piston is at the bottom of the shock body.

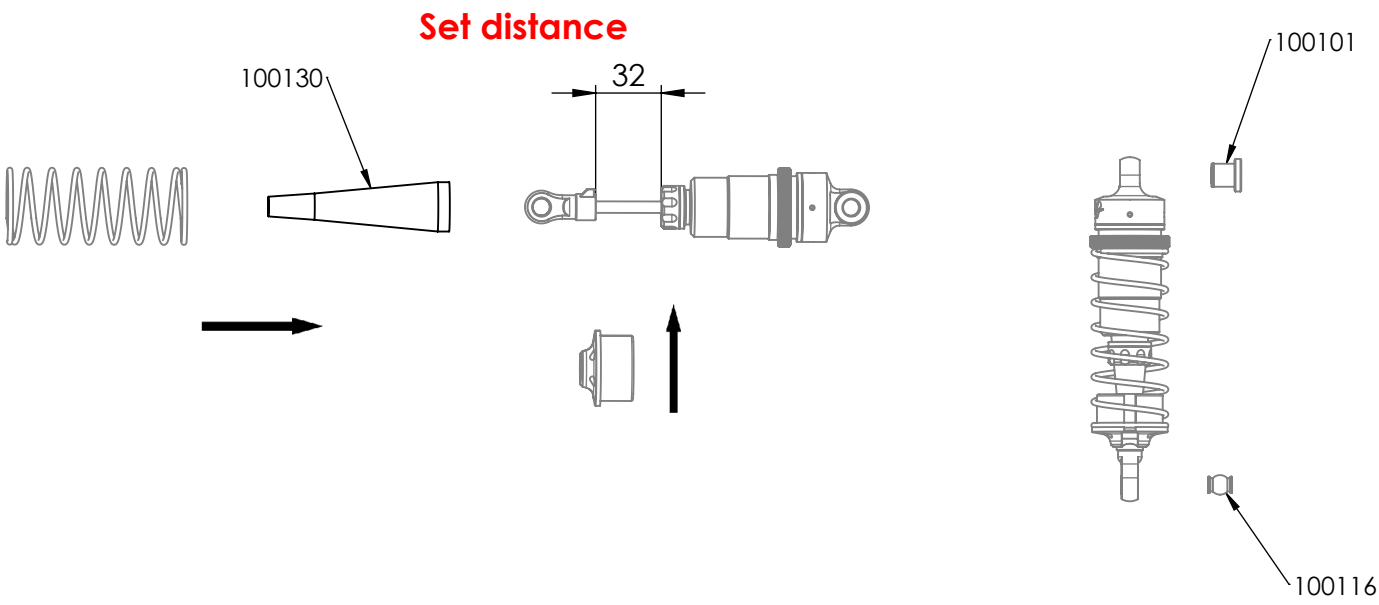
Hold the shock upright and fill the shock body with shock oil as in the picture.

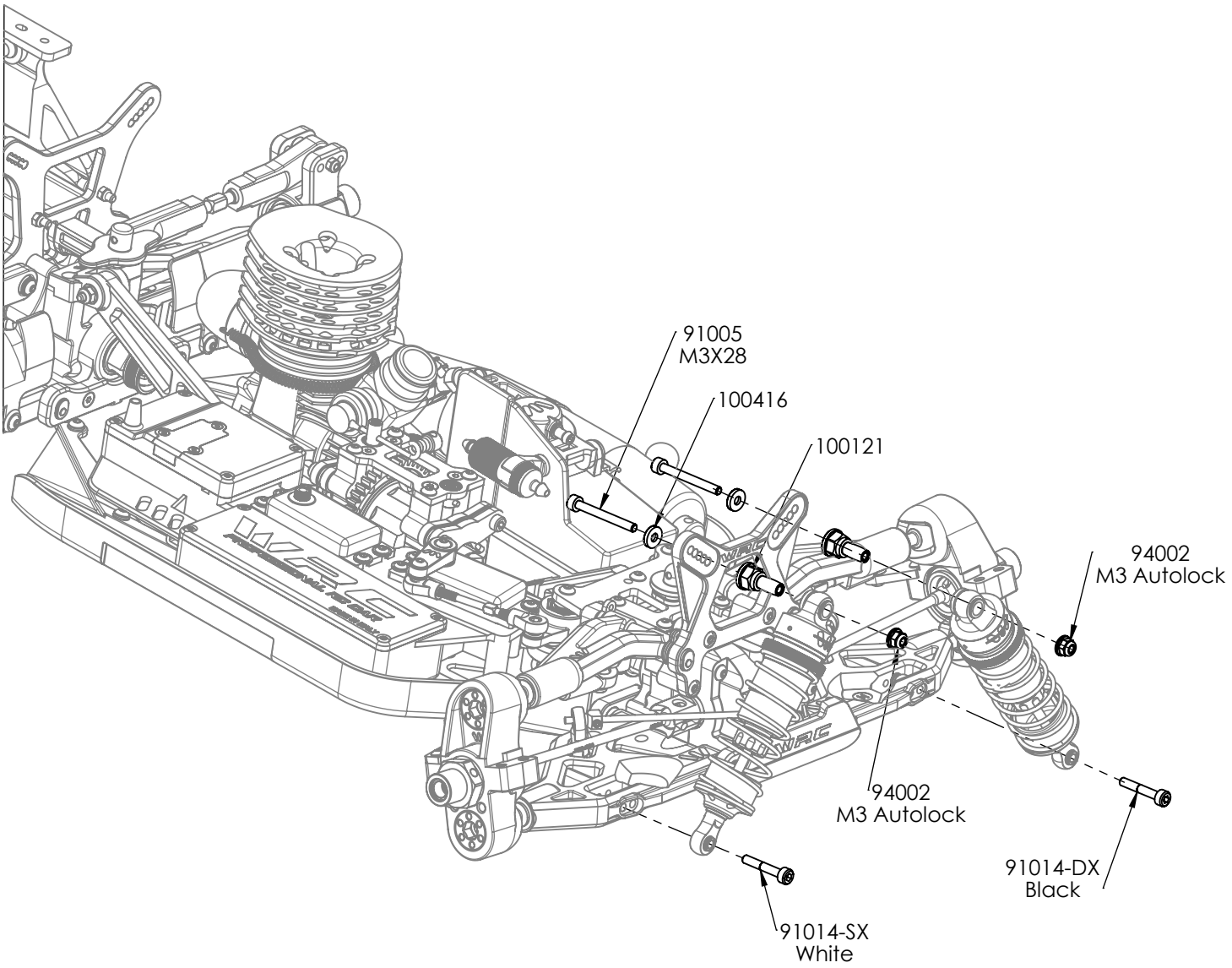
Let the oil settle and allow air bubbles to rise to the top.
Slowly move the piston up and down until no more air bubbles appear.
Add shock oil as necessary.

Pull the piston rod most of the way out of the shock bod.
Let the shock rest for 5 minutes to allow the air bubbles to scape.

P- ONE SHOCKS OIL	
CODE	**CST**
SO-400	400
SO-500	500
SO-600	600 (IN KIT)
SO-700	700
SO-800	800

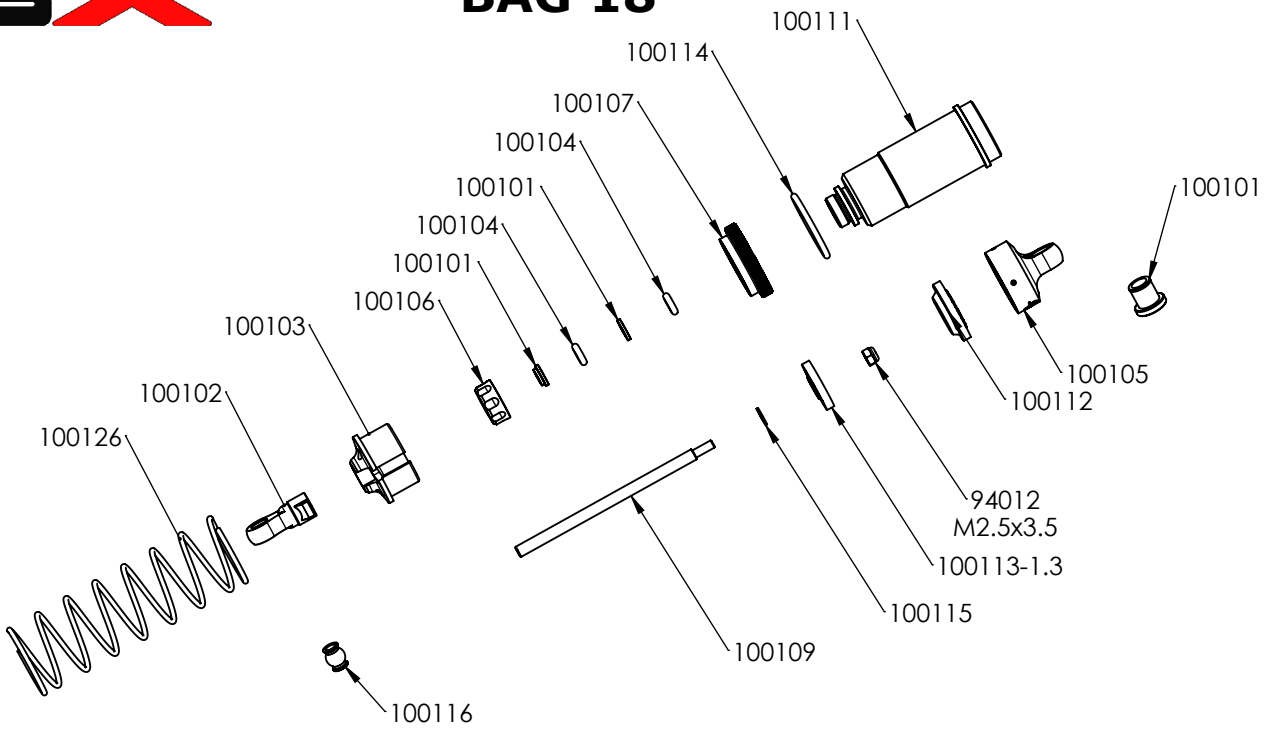
BAG 17


Set distance
100130
32
100101
100116

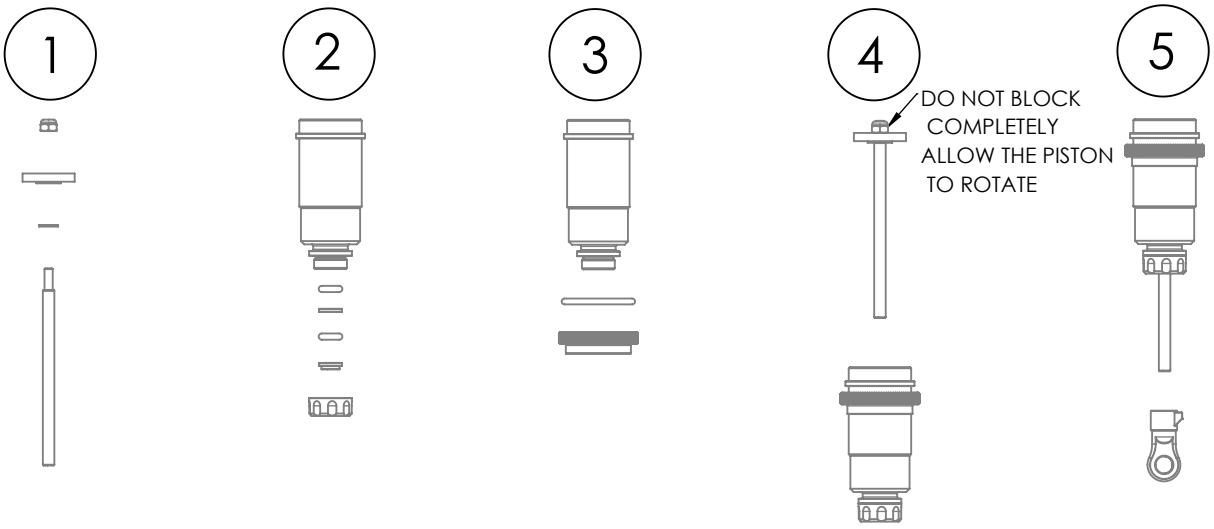

91005
M3X28
100416
100121
94002
M3 Autolock
94002
M3 Autolock
91014-DX
Black
91014-SX
White

Rear Shock

BAG 18



Assembly 2 set



SHOCK FILLING

Fully extend the piston rod so the piston is at the bottom of the shock body.

Hold the shock upright and fill the shock body with shock oil as in the picture.

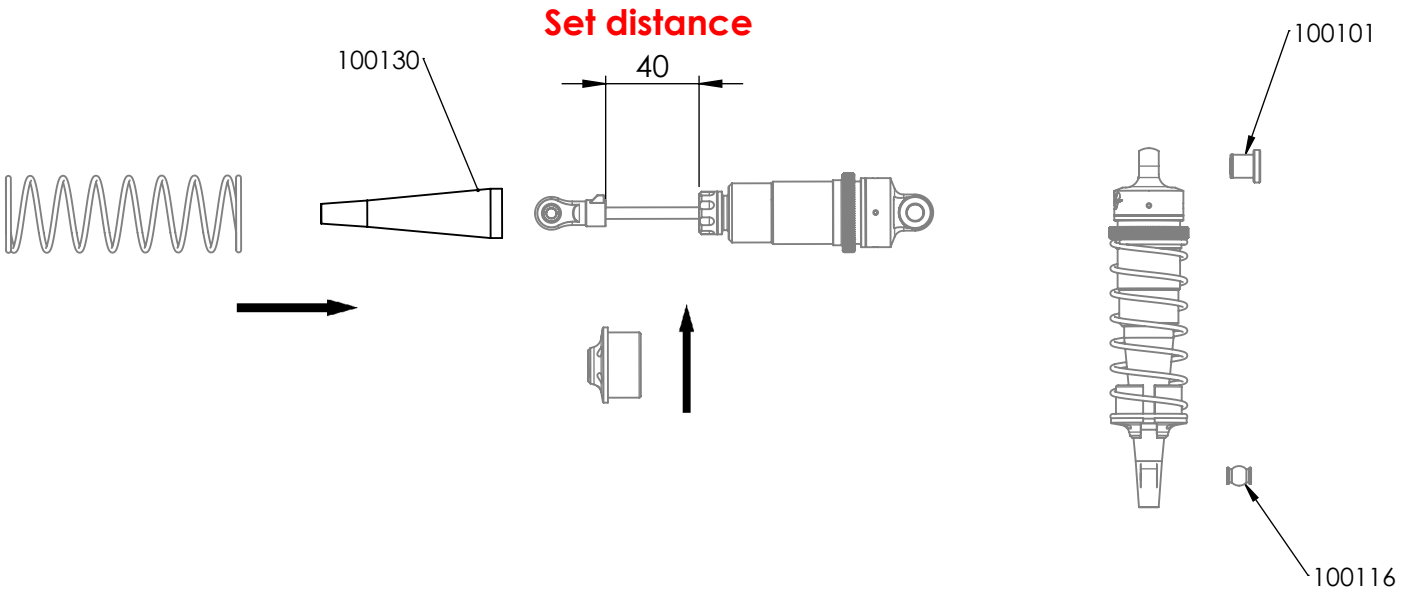
Let the oil settle and allow air bubbles to rise to the top.
Slowly move the piston up and down until no more air bubbles appear.
Add shock oil as necessary.

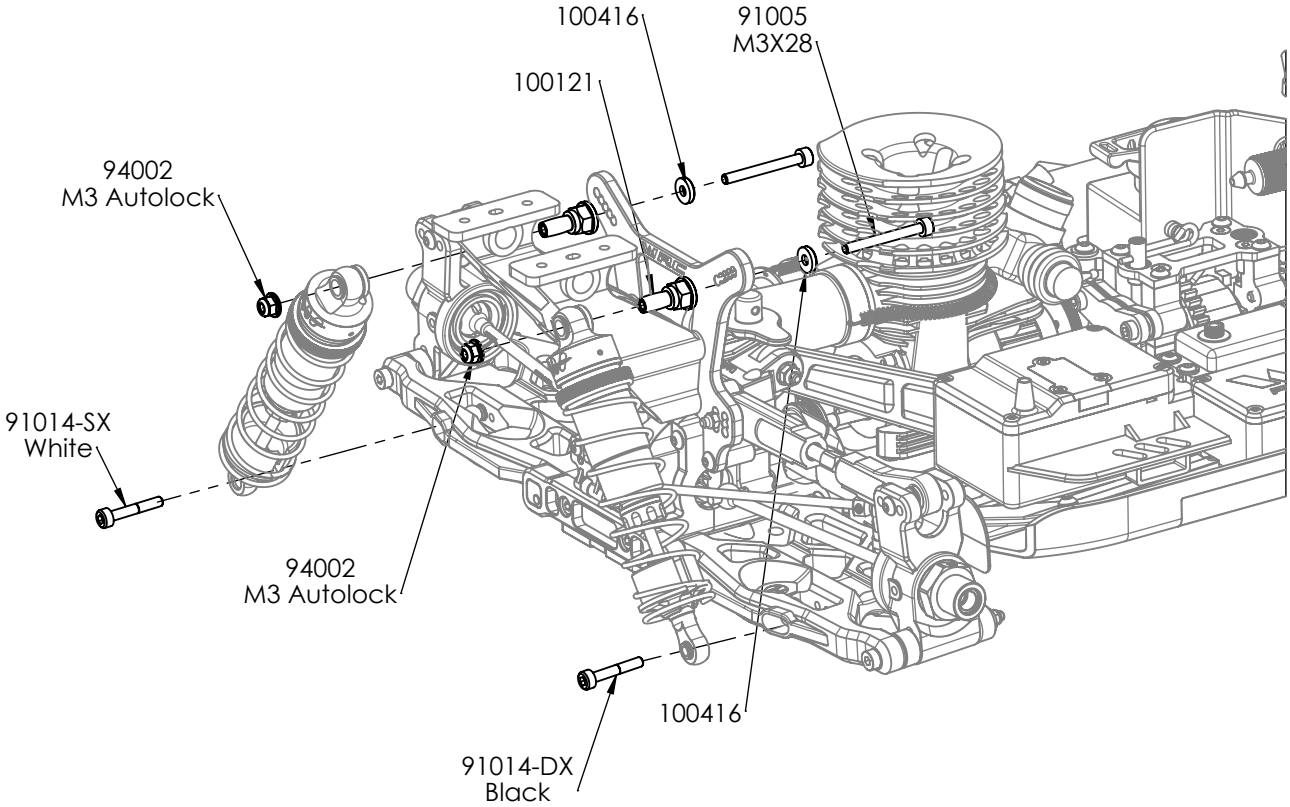
Pull the piston rod most of the way out of the shock bod.
Let the shock rest for 5 minutes to allow the air bubbles to scape.

P- ONE SHOCKS OIL	
CODE	**CST**
SO-400	400
SO-500	500
SO-600	600 (IN KIT)
SO-700	700
SO-800	800

BAG 18

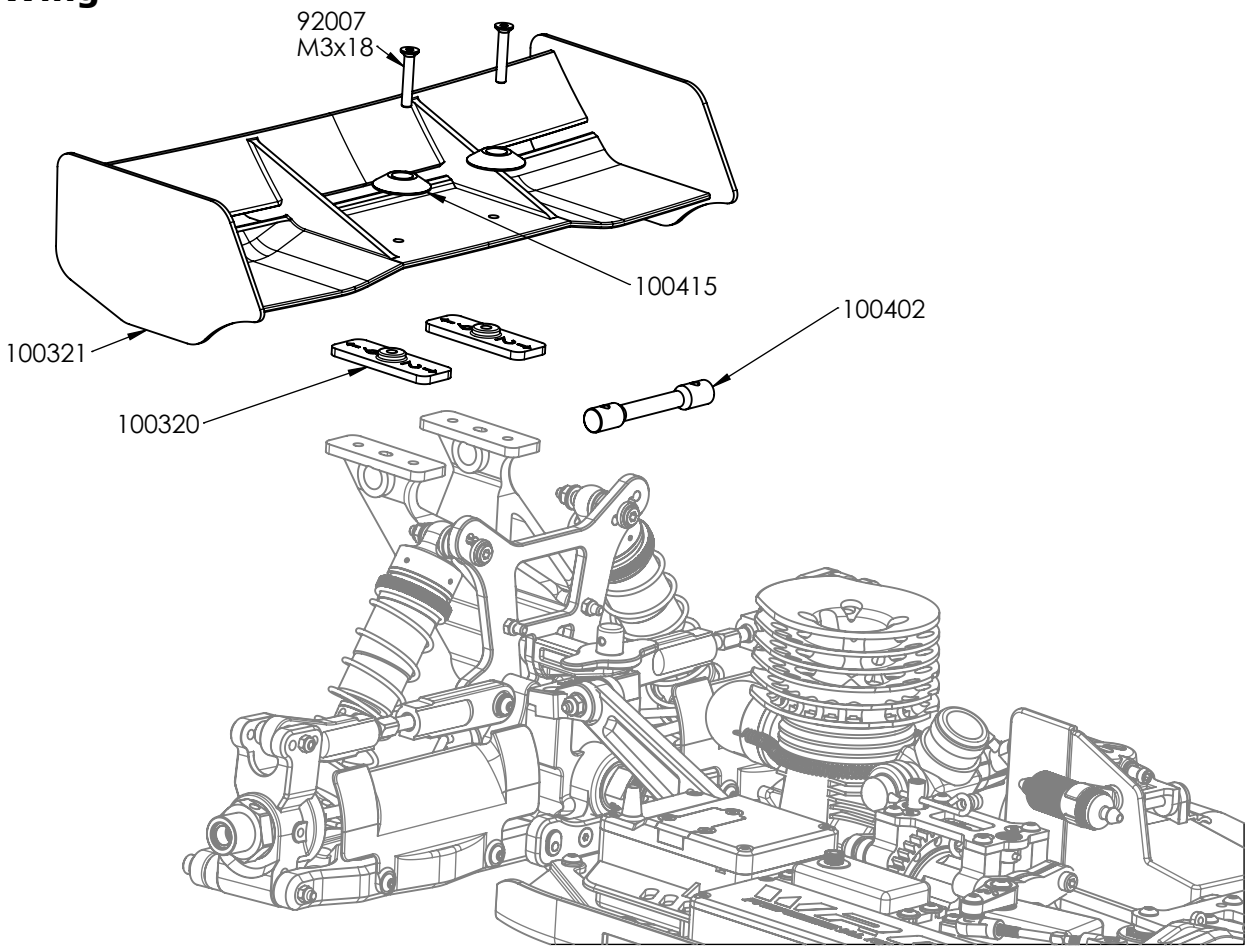
Front Shock



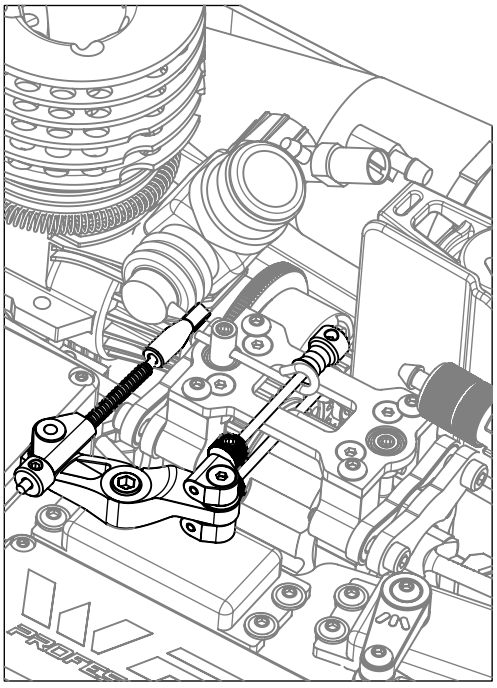


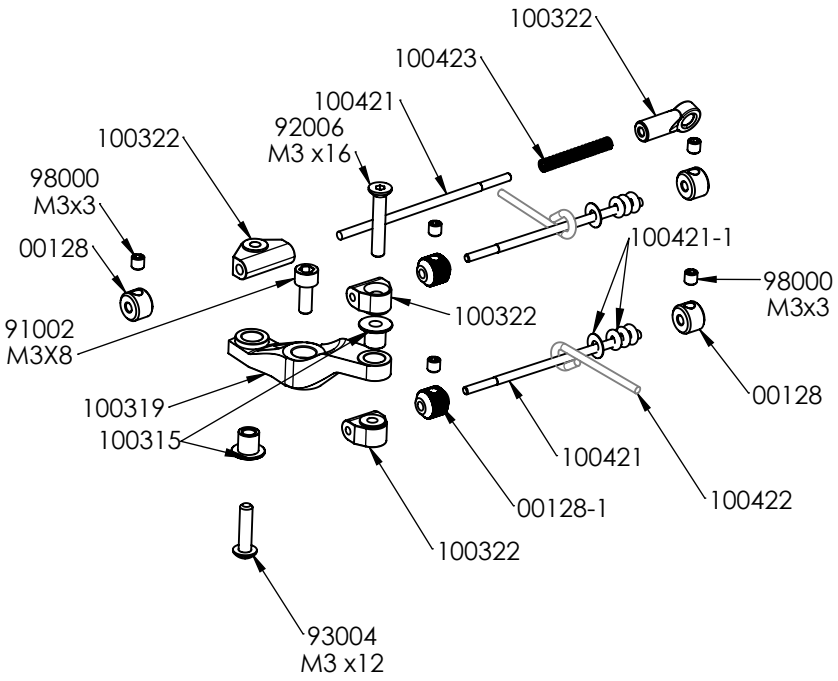
BAG 19

Rear Wing



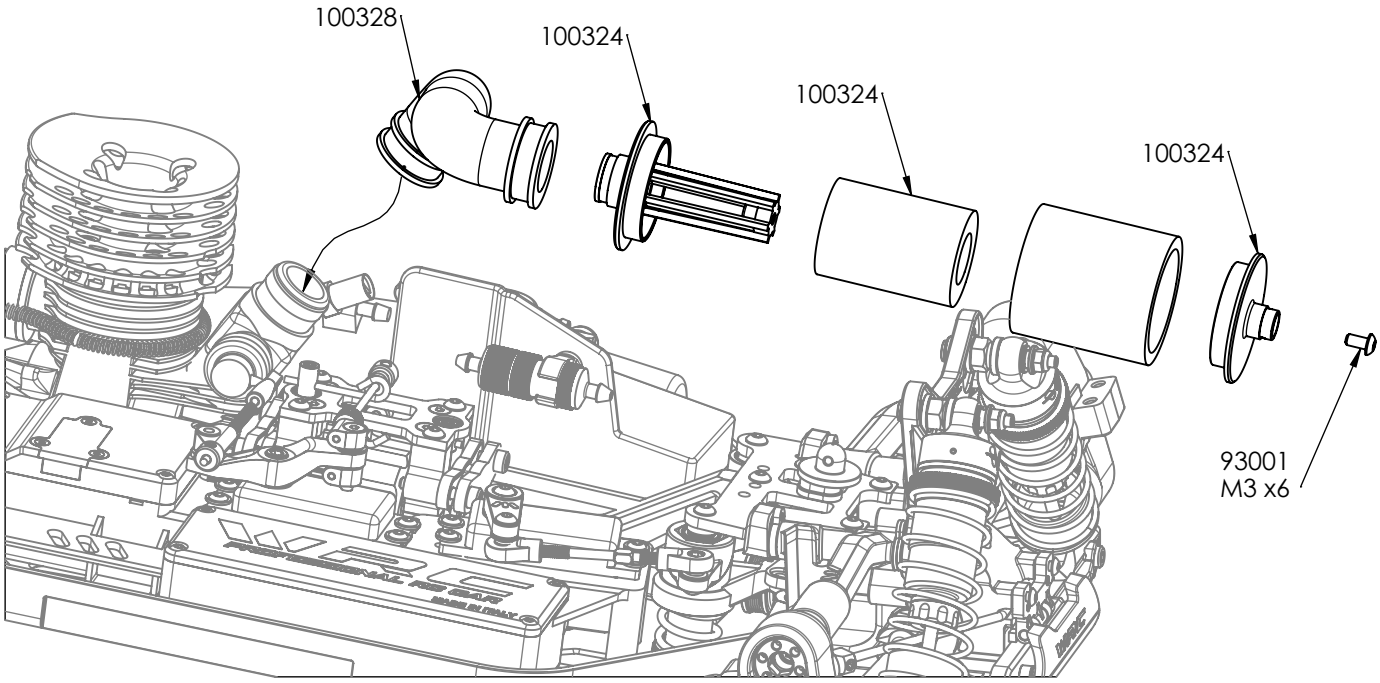
Final Assembly





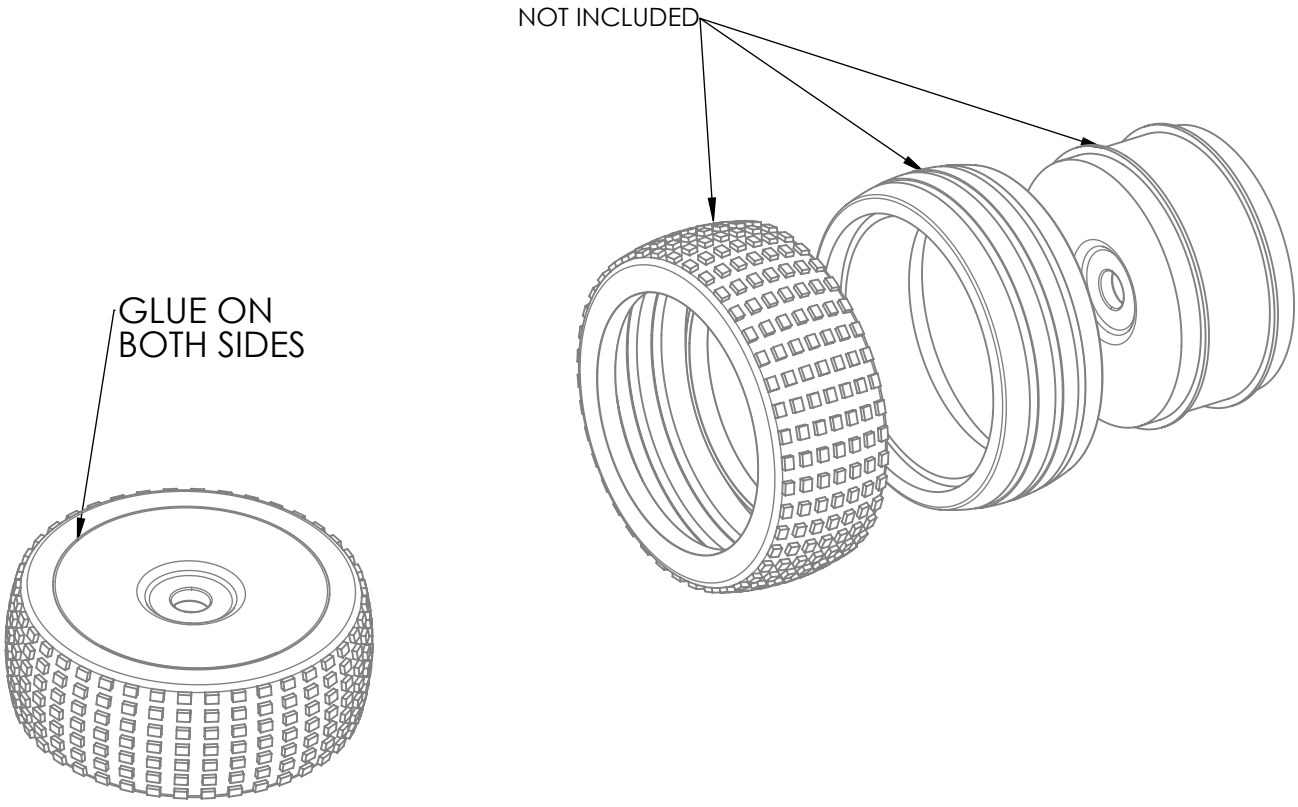
BAG 20

Air Filter

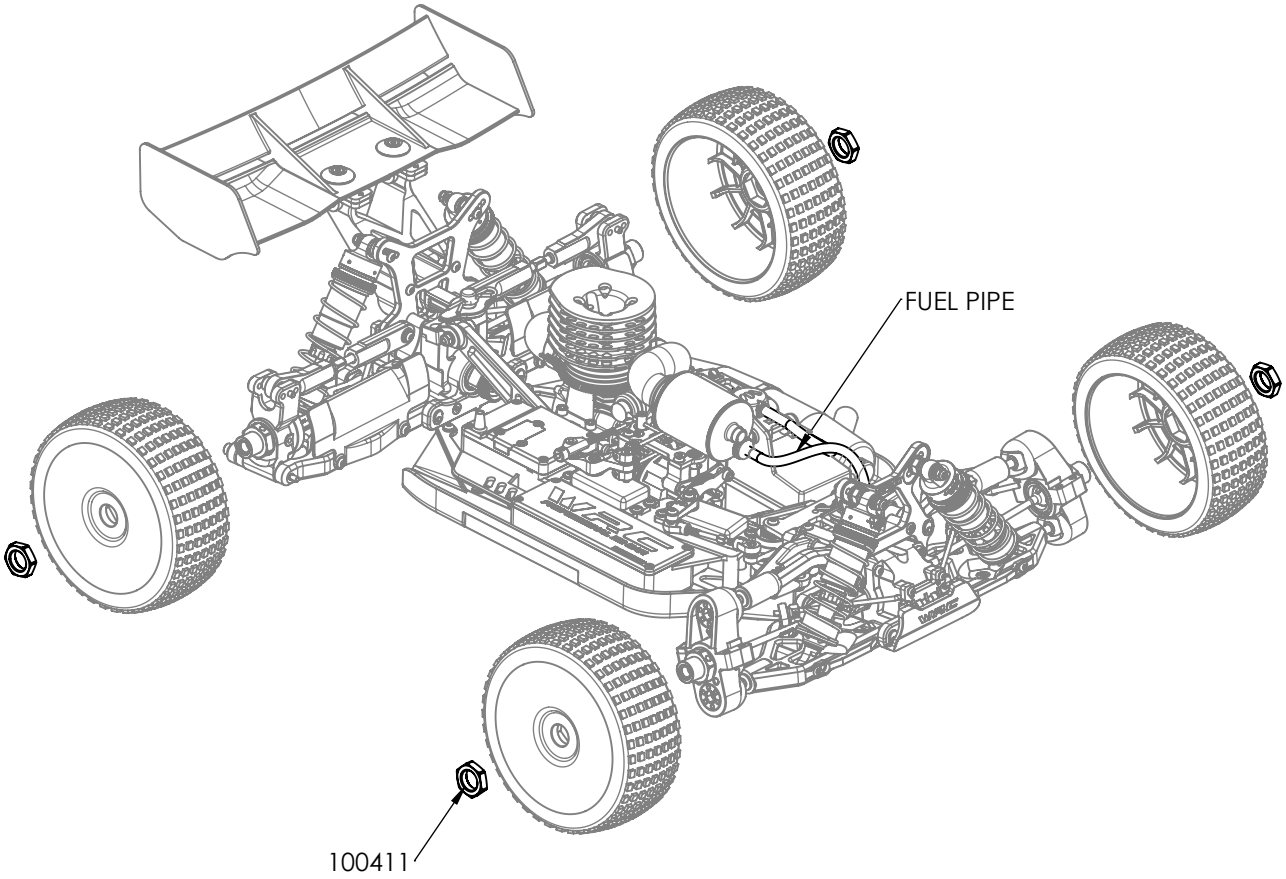


Tyres

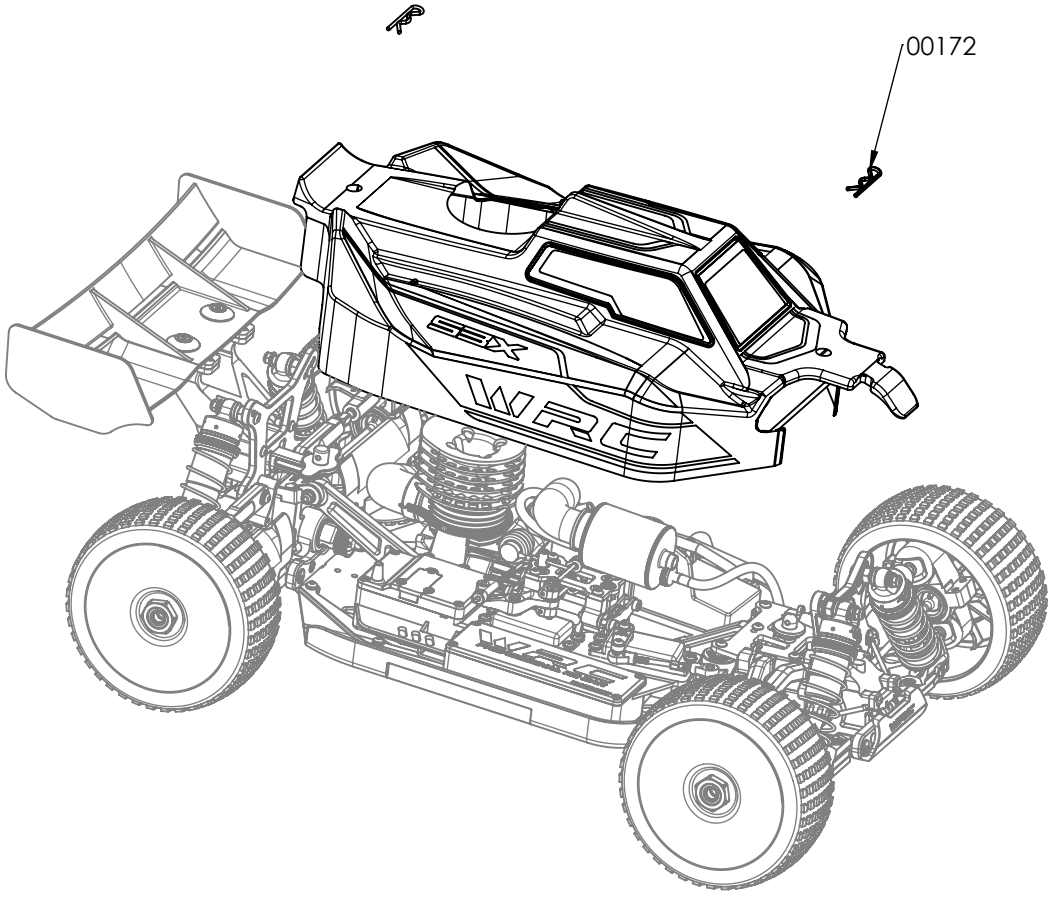
Assembly 4 set



Tyres



Body

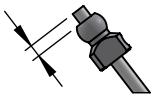


S3X

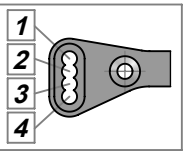
Driver:	Track:
Date:	Event:

Front Suspension:

Ride Height:
Camber:
Toe:
Anti-Roll Bar
Size:
Gap:

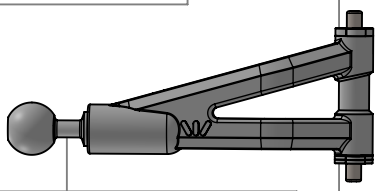


Ackerman

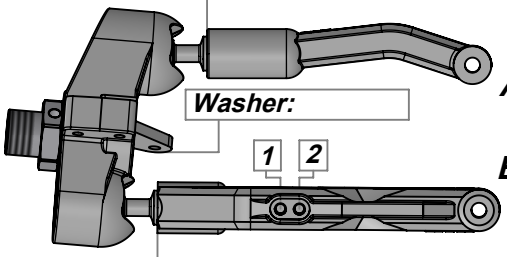


Drive Shaft:
Chassie Brace:
Hex:

Caster Shim:

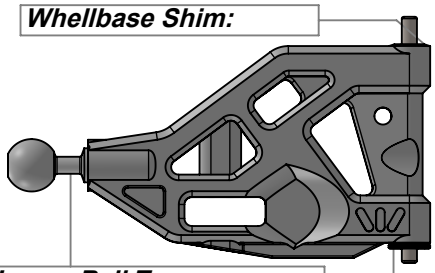


Upper Ball Type:
Caster Shim:
Upper Ball Shim:



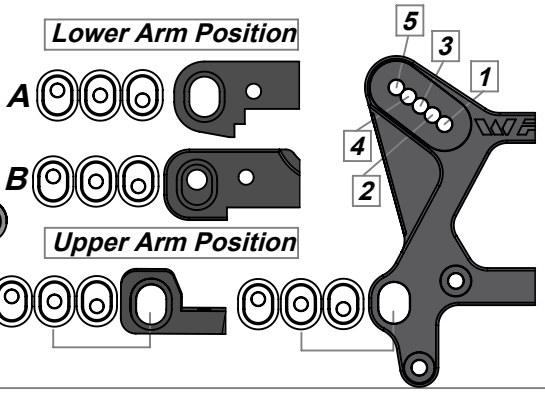
Washer:
Lower Ball Shim:

Whellbase Shim:



Lower Ball Type:
Whellbase Shim:

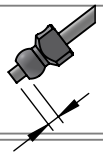
Lower Arm Position



Upper Arm Position

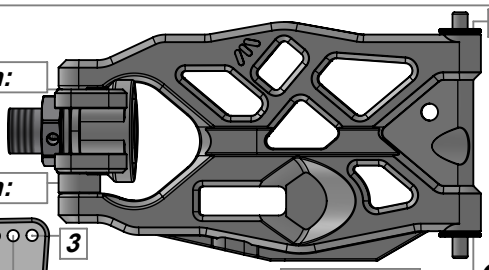
Rear Suspension:

Ride Height:
Camber:
Toe:
Anti-Roll Bar
Size:
Gap:

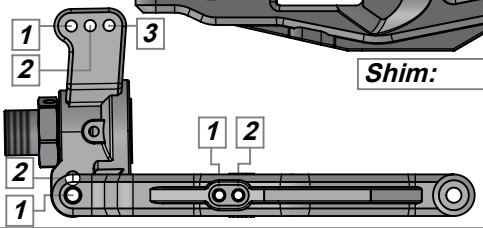


Drive Shaft:
Chassie Brace:
Hex:

Hub Shim:

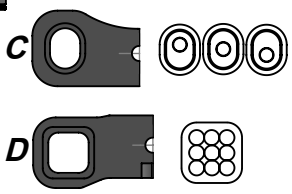


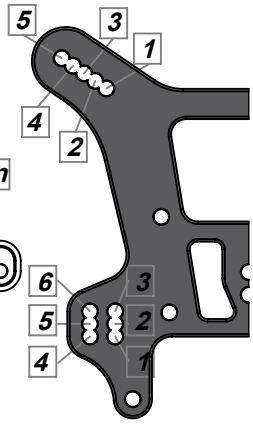
Hub Shim:



Shim:
Shim:

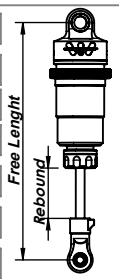
Lower Arm Position





Shocks:

	Front	Rear
Piston:		
Membrane:		
Oil:		
Spring:		
Rebound:		
Free Lenght:		



Differential:

	Front	Center	Rear
Case Mat.:			
Oil:			
Crown Gear:			
Gearing :			
Clutch Belt:			Spur Gear
Shoe:			Spring

Tires:

	Front	Rear
Brand:		
Pattern:		
Insert:		
Whells:		
Compound:		
Total Vehicle Weight:		

Engine:

Type:	
Muffler:	
Manifold:	
Plug:	
Fuel:	

Body, Wing:

Body:	
Wing:	
Manifold:	
Wing Height:	
Gap to tower:	

Tracks:

Size :	
Traction:	
Surface:	
Type:	
Fuel:	

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