



VS4-10 BUILDERS KIT

1:10 SCALE HIGH PERFORMANCE 4WD CHASSIS KIT

STRAIGHT AXLE

INSTRUCTION MANUAL

■ THANK YOU

Thank you for selecting this Vanquish Products vehicle kit. This kit is designed to be fun to drive and uses top quality parts for durability and performance. The instruction manual you are reading was designed to be easy to follow yet thorough in its explanations.

If you come across any problems or need some help getting through a step, please contact us through our website www.VanquishProducts.com.

This is a high performance R/C kit, and it requires regular maintenance for best performance.

If you don't do regular maintenance the performance will suffer.

Vanquish Products has all the necessary parts and accessories available to keep your kit performing at its best. Please read and understand the instructions carefully before proceeding.

BEFORE RUNNING

- Please read manual (with parent, guardian or a responsible adult if necessary).
- Make sure that all screws and nuts are properly tightened.
- Always use fresh batteries for your transmitter and receiver to avoid losing control of the model.
- Please confirm the neutral throttle trigger position.

WHILE OPERATING

- Please do not run on a public street, this could cause serious accidents, personal injuries and/or property damage.
- Please do not run near pedestrians or small children.
- Please do not run in small or confined areas.

AFTER OPERATING

- Turn OFF receiver first, then turn OFF transmitter. This will prevent the car from losing control.
- After running a Vanquish Products vehicle, it is necessary to perform routine maintenance.
Failure to do this can result in increased wear and damage to the vehicle.

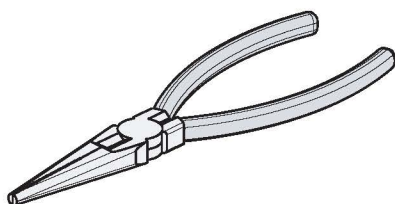
BATTERY SAFETY

- Please be careful when handling the battery. It will be hot after running. If the wire is frayed, a short circuit can cause a fire.
- Please read all instructions and warnings provided by your battery manufacturer for more safety information.

■ CONTENTS

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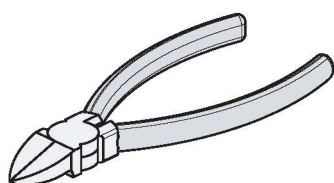
■ NECESSARY FOR MAINTENANCE



**NEEDLE NOSE PLIERS
(NOT INCLUDED)**



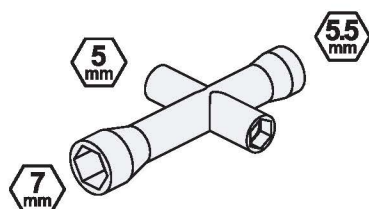
**GREASE
(INCLUDED)**



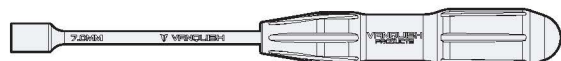
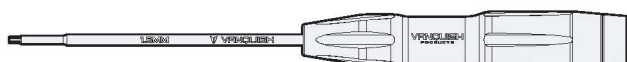
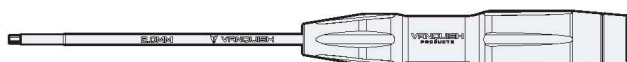
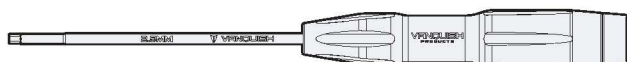
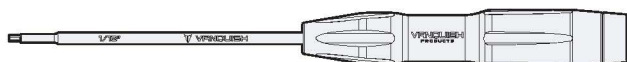
**SIDE CUTTERS
(NOT INCLUDED)**



**THREAD LOCK
(INCLUDED)**



**CROSS WRENCH
(INCLUDED)**



SUGGESTED TOOLS (NOT INCLUDED):

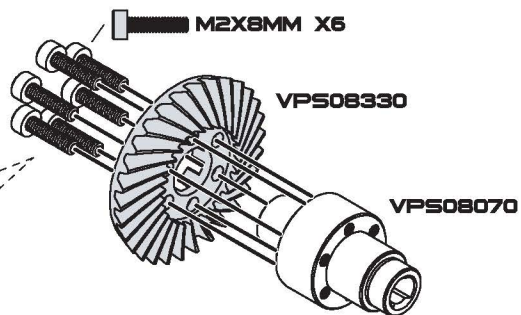
VPS08410 STANDARD TOOL SET

VPS08400 METRIC TOOL SET

VPS08440 METRIC NUT DRIVER TOOL SET

FRONT AXLE

1



7X14X3.5MM BEARING X2

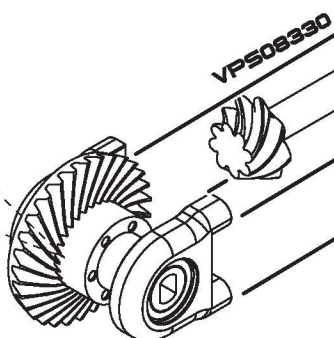
VP508606

5XTX4MM BEARING X1

VP508606

M3X10MM X4

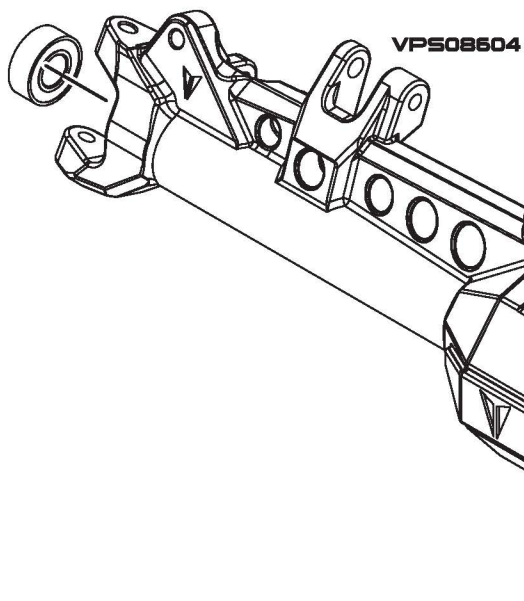
2



5X14X5MM BEARING X1

M2.5X10MM X4

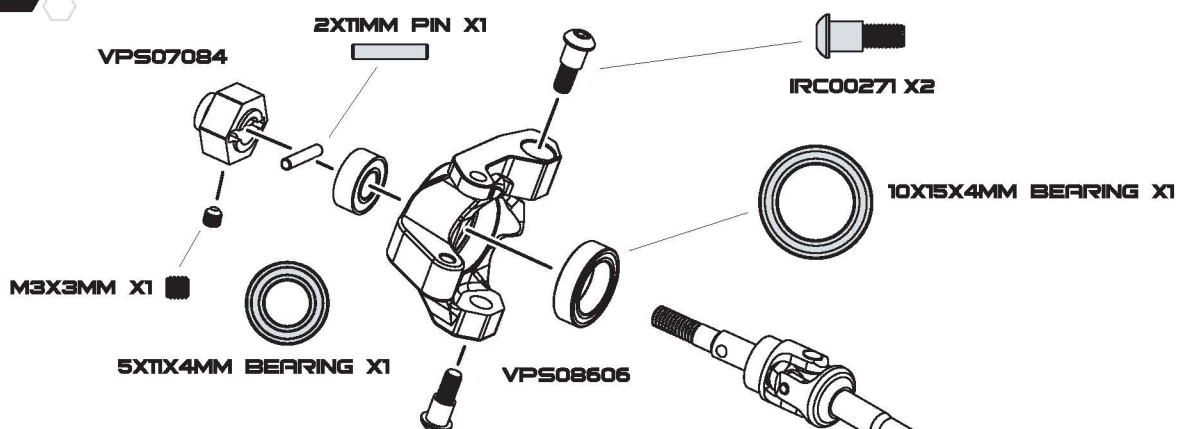
3



5XTX4MM BEARING X2

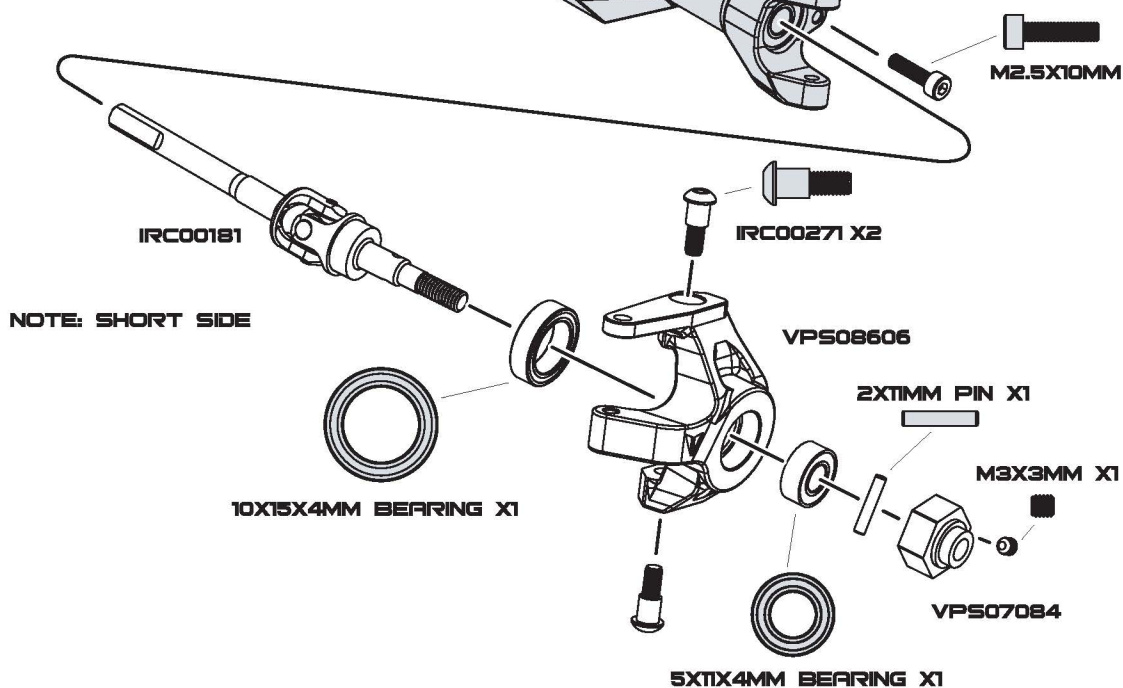
FRONT AXLE ASSEMBLY

1



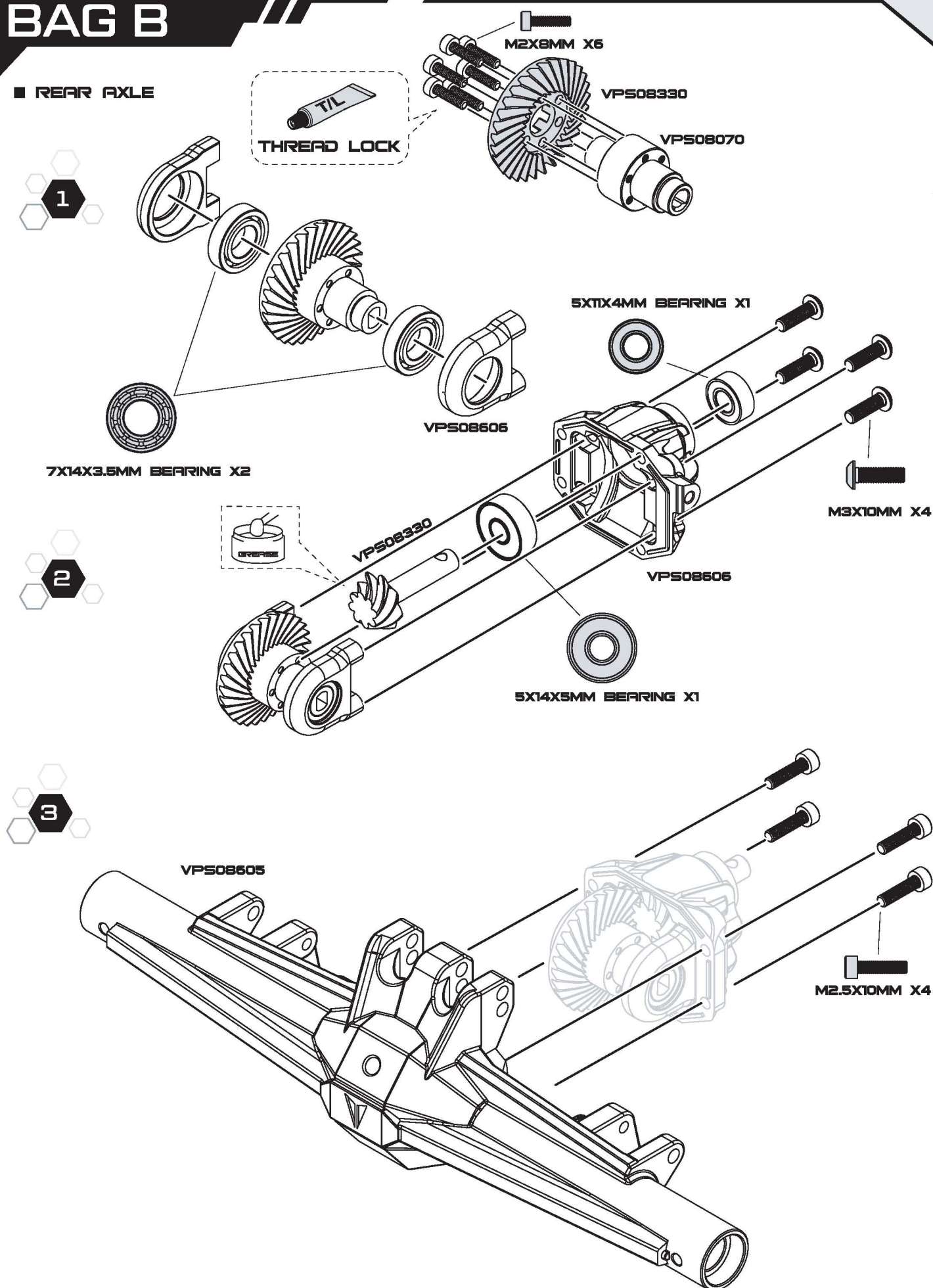
M2.5X10MM

2



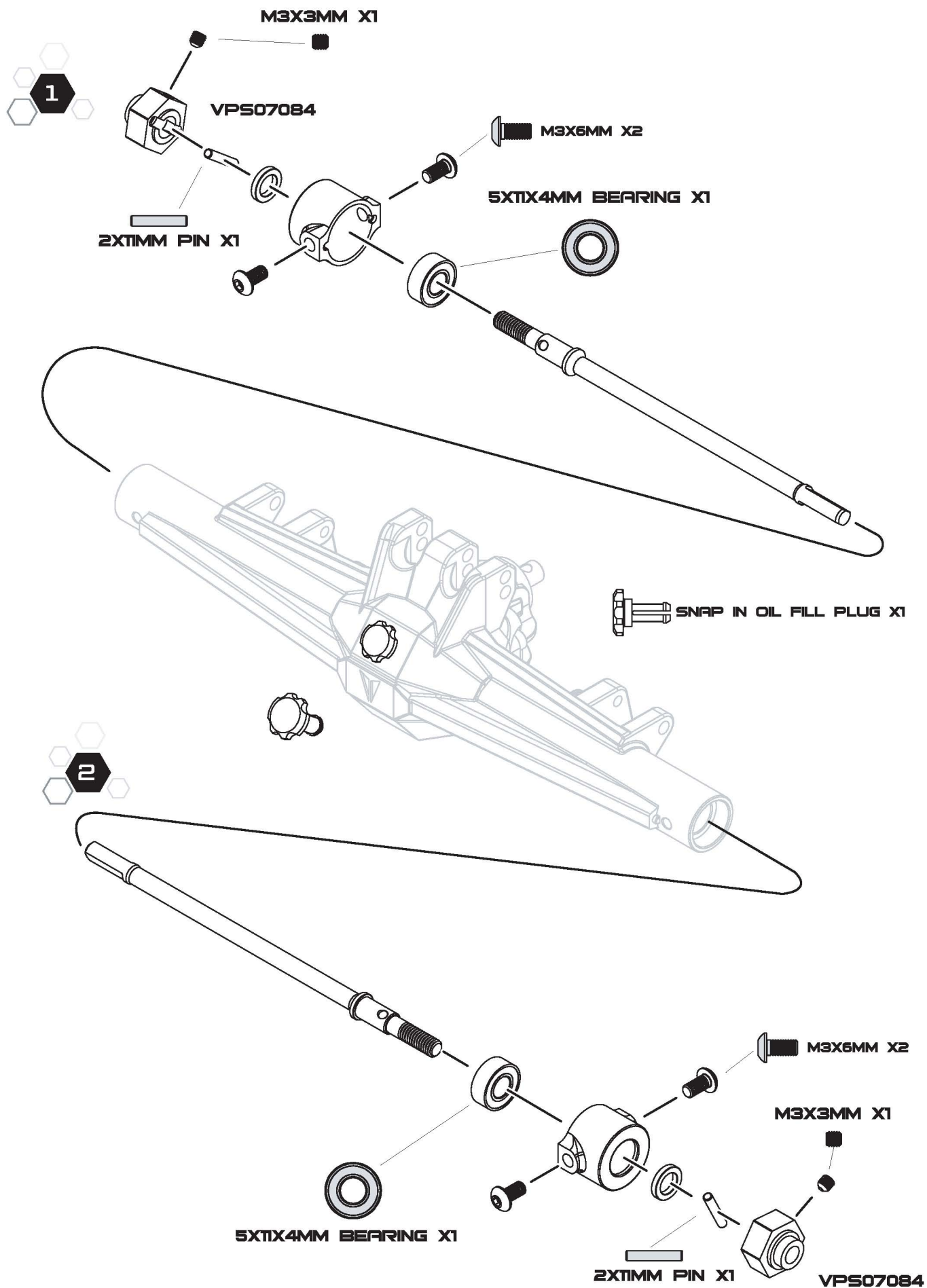
BAG B

■ REAR AXLE

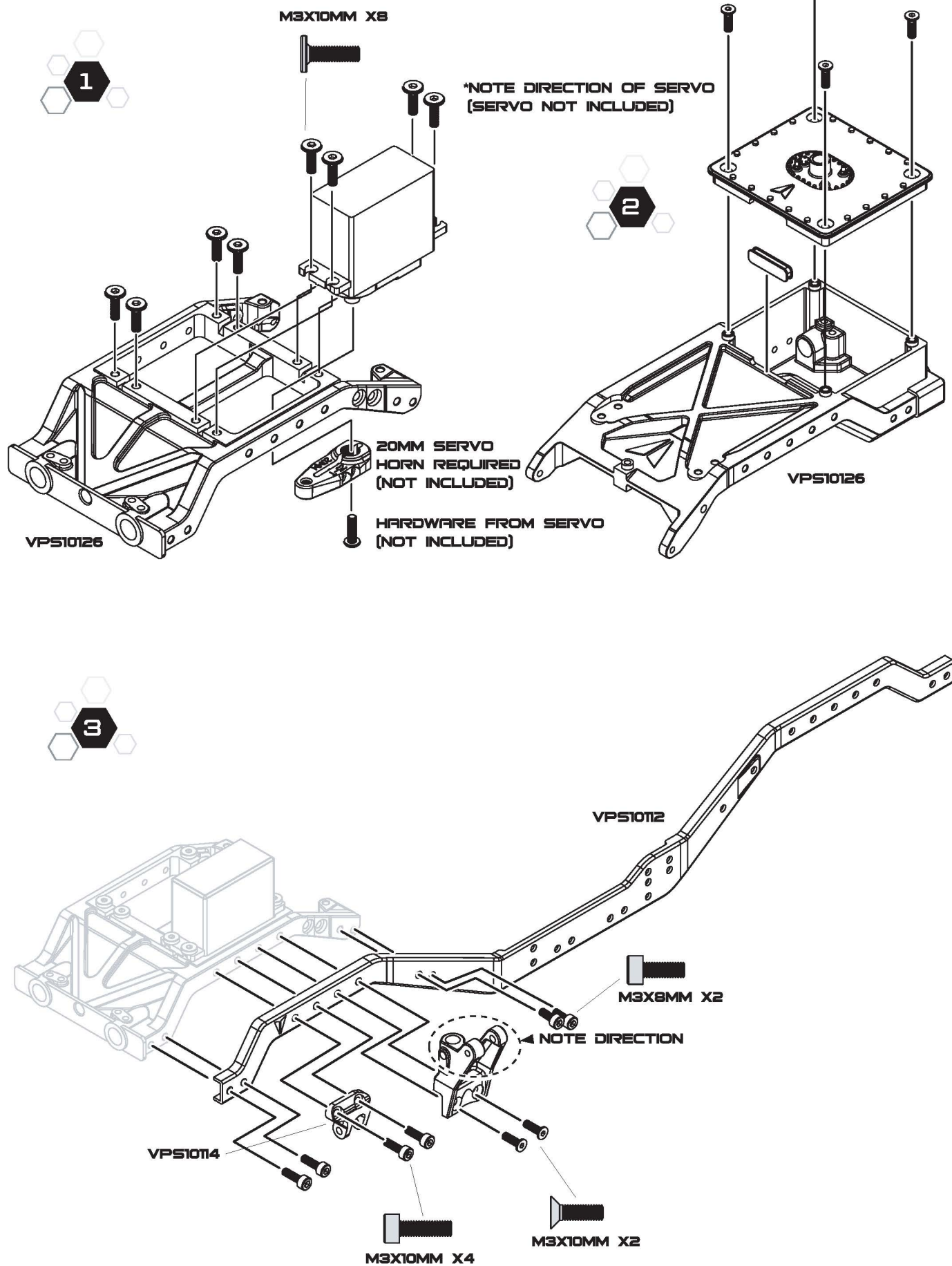


BAG B

■ REAR AXLE ASSEMBLY



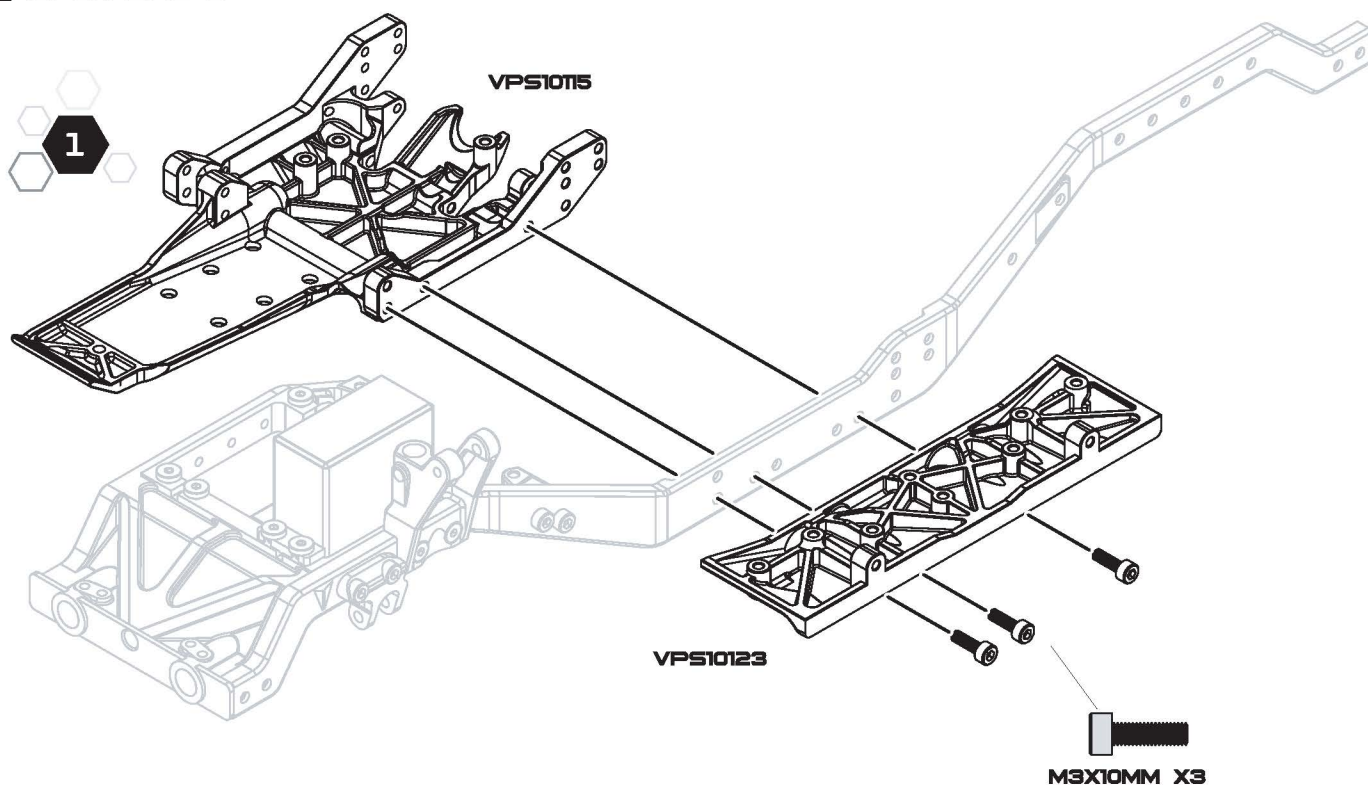
■ CHASSIS



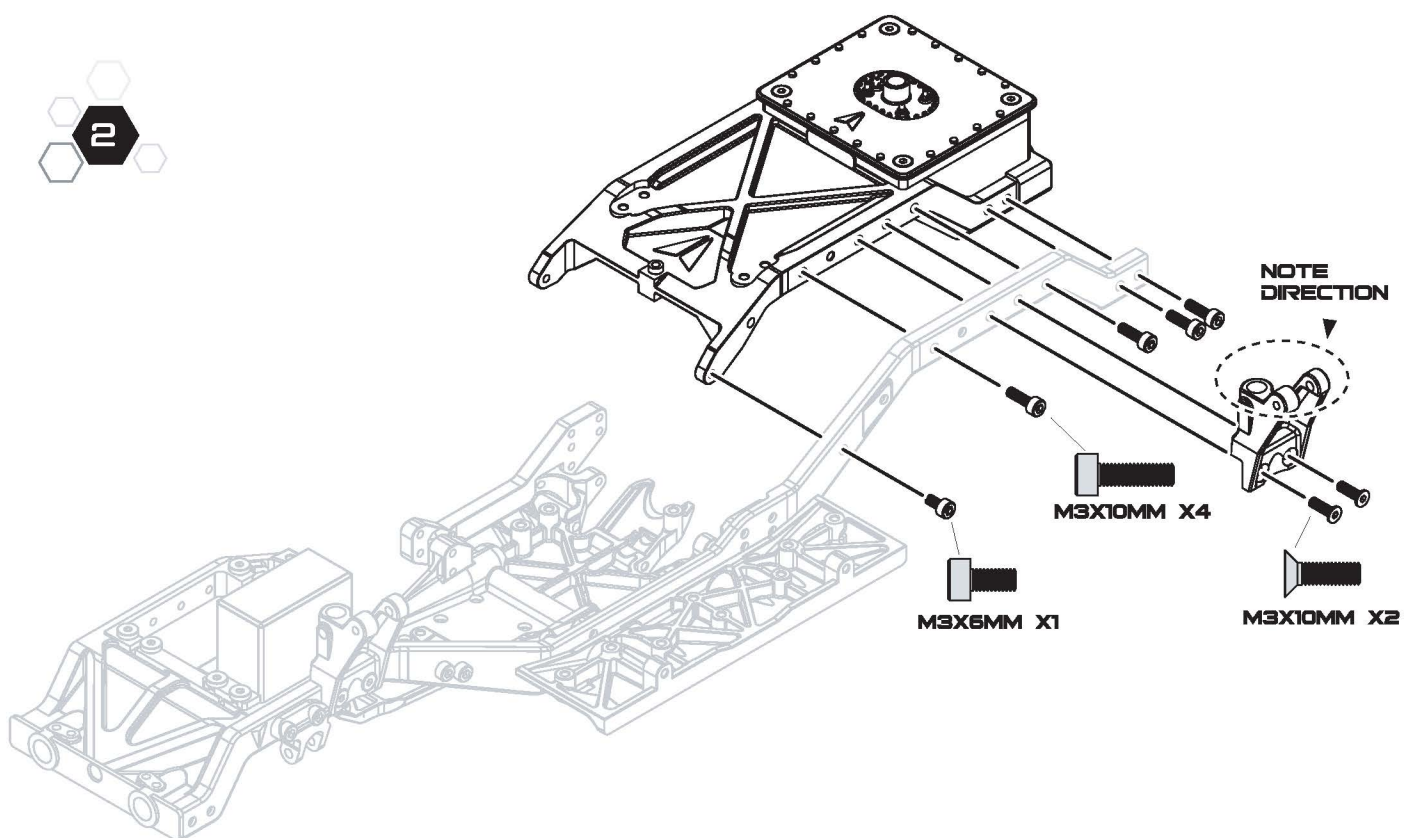
BAG C

CHASSIS OPEN BAG C

1

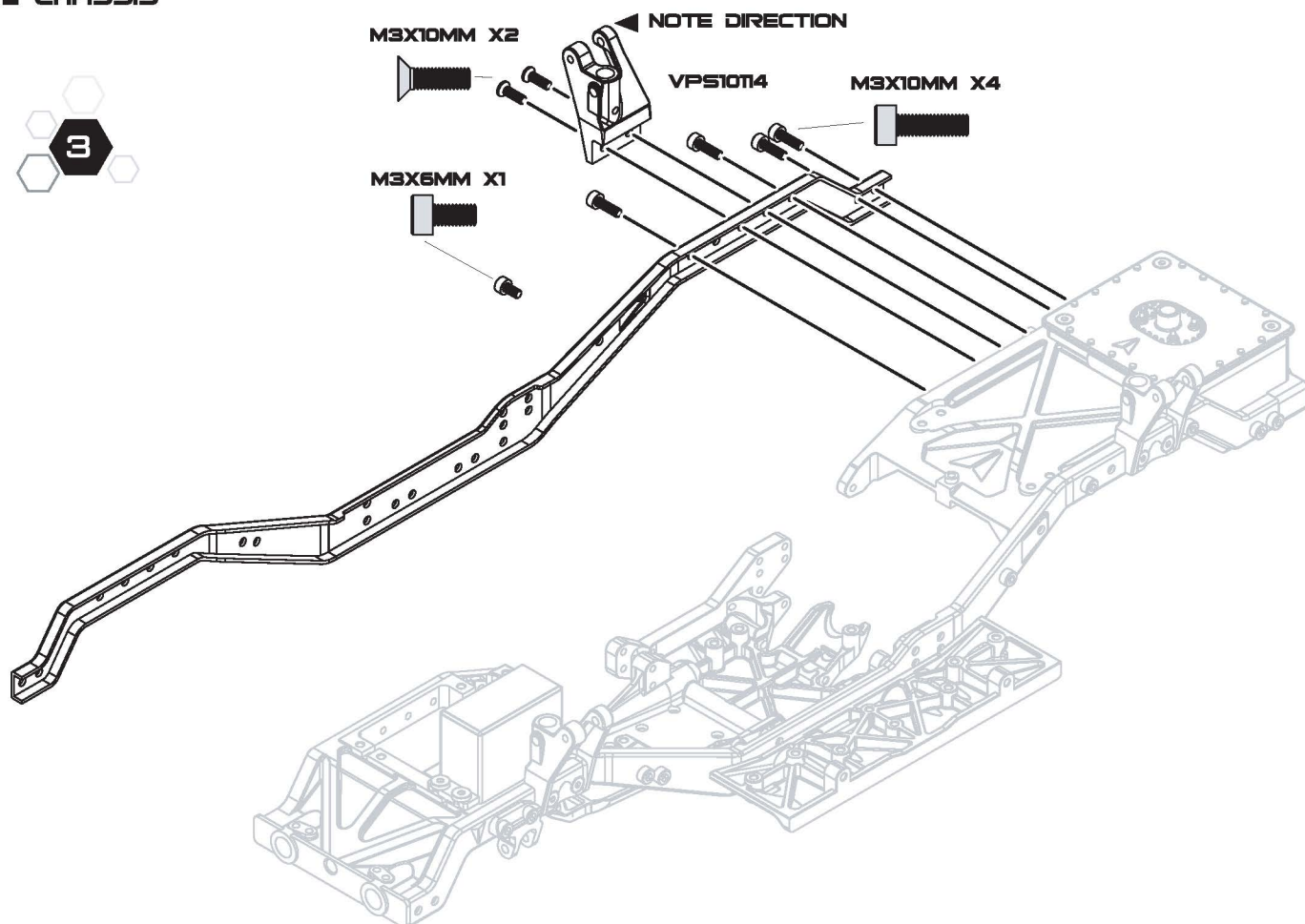


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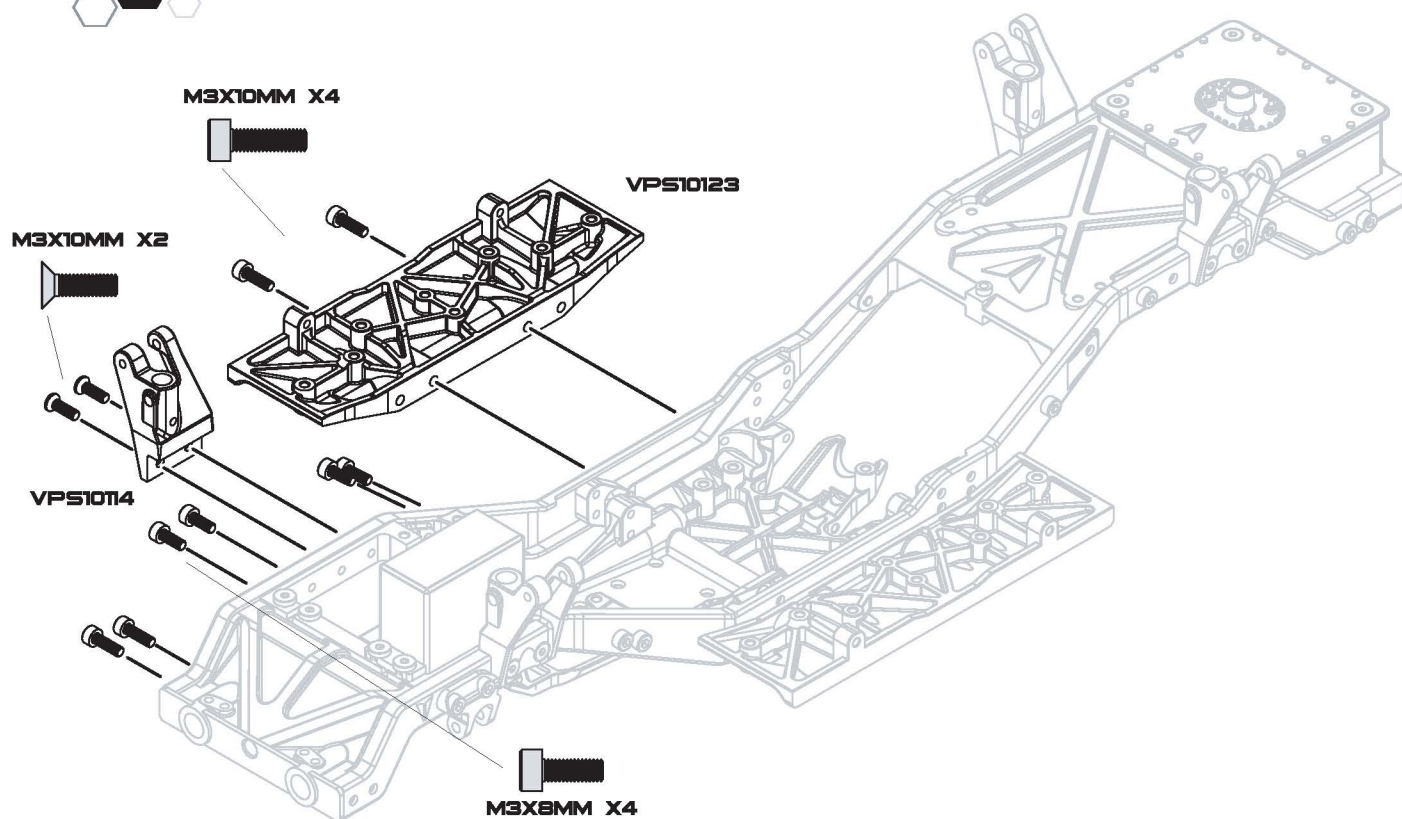


■ CHASSIS

3



4

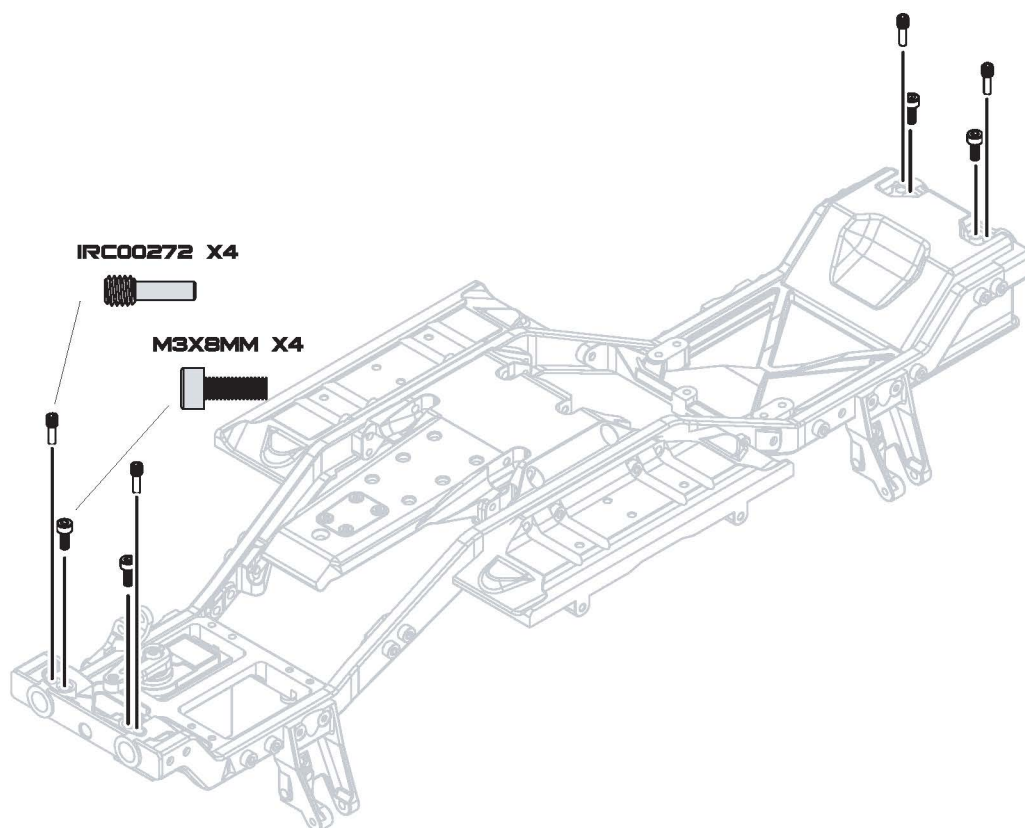


■ CHASSIS

5

IRC00272 X4

M3X8MM X4



6

M3X10MM X4

M3X12MM X4

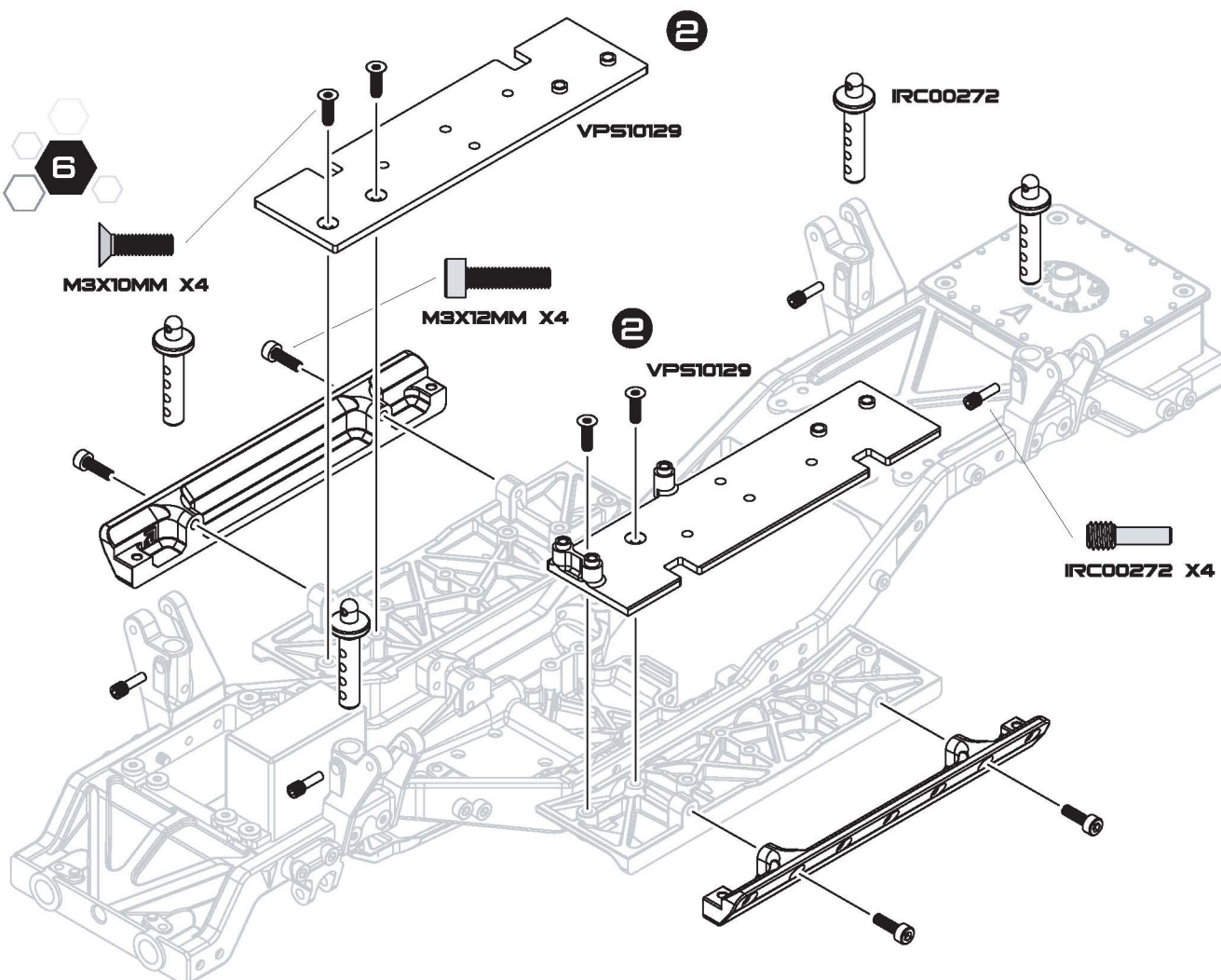
VPS10129

2

IRC00272

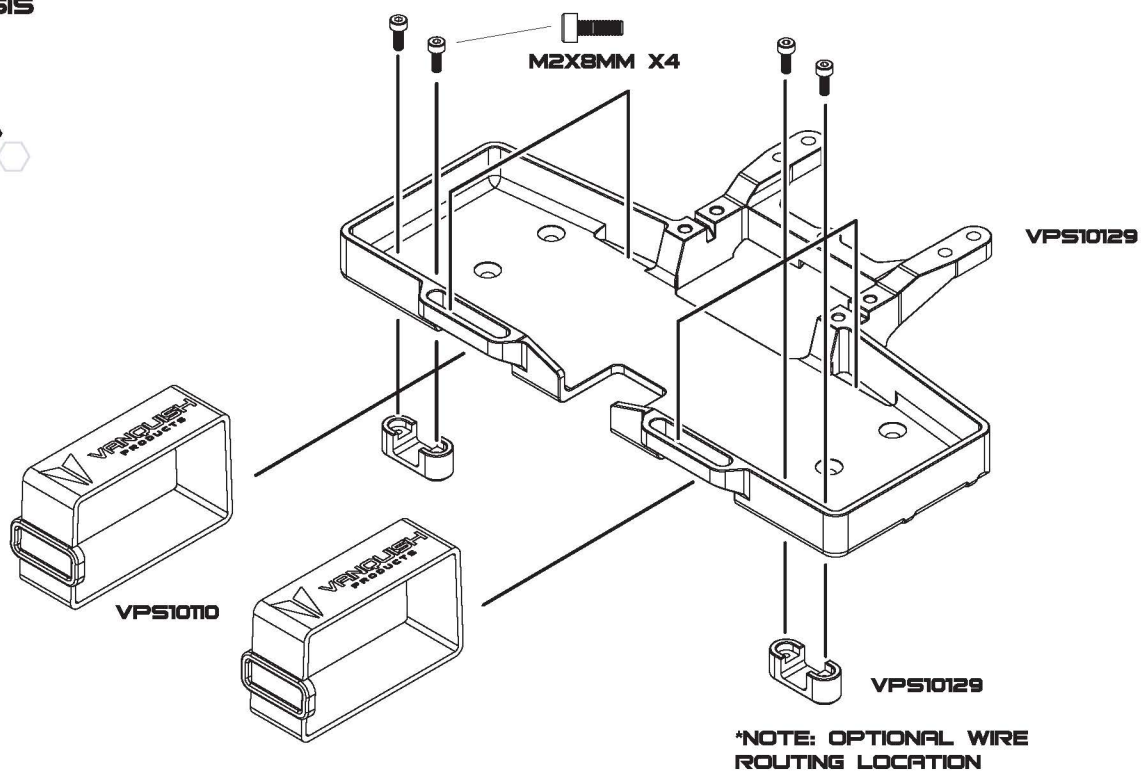
VPS10129

IRC00272 X4

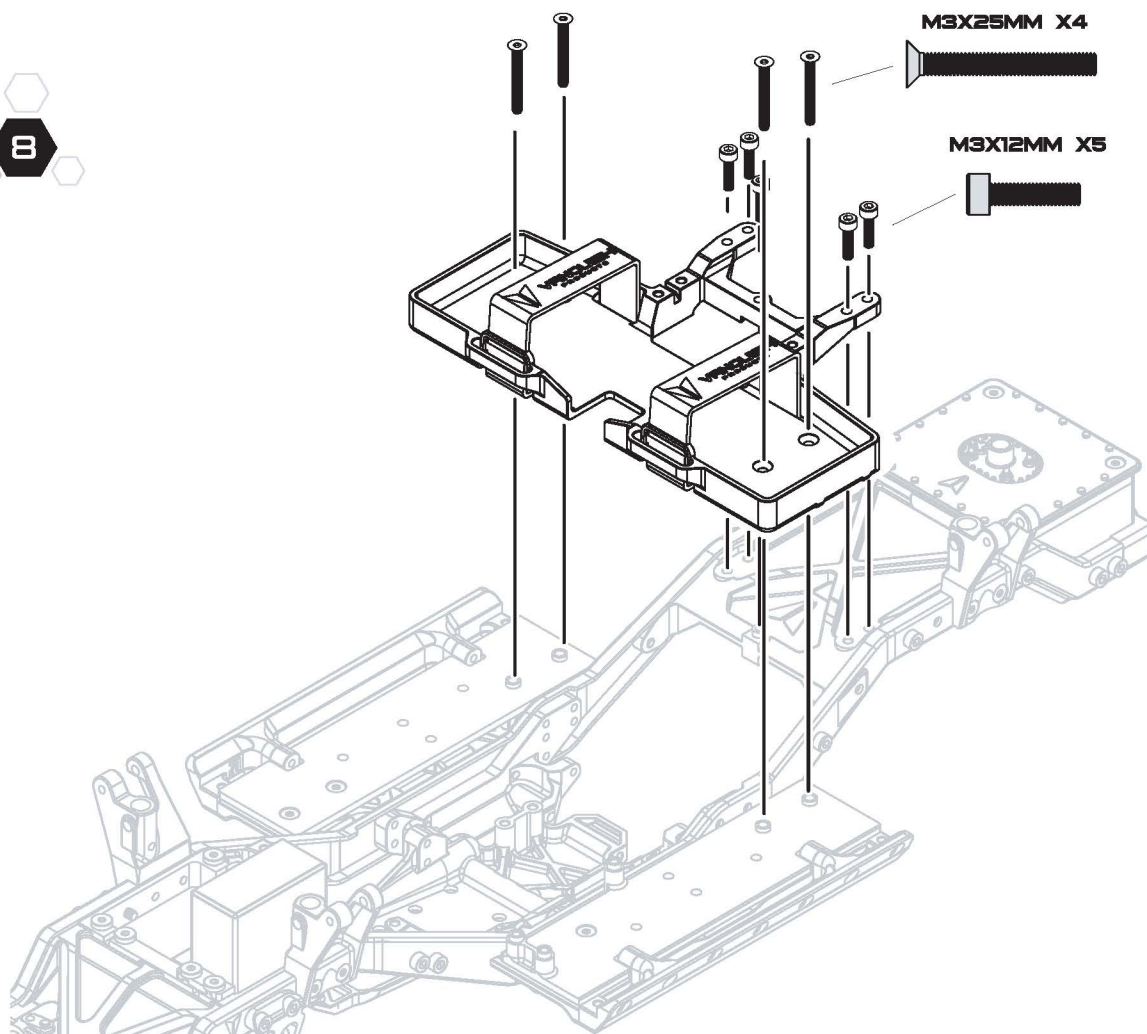


■ CHASSIS

7

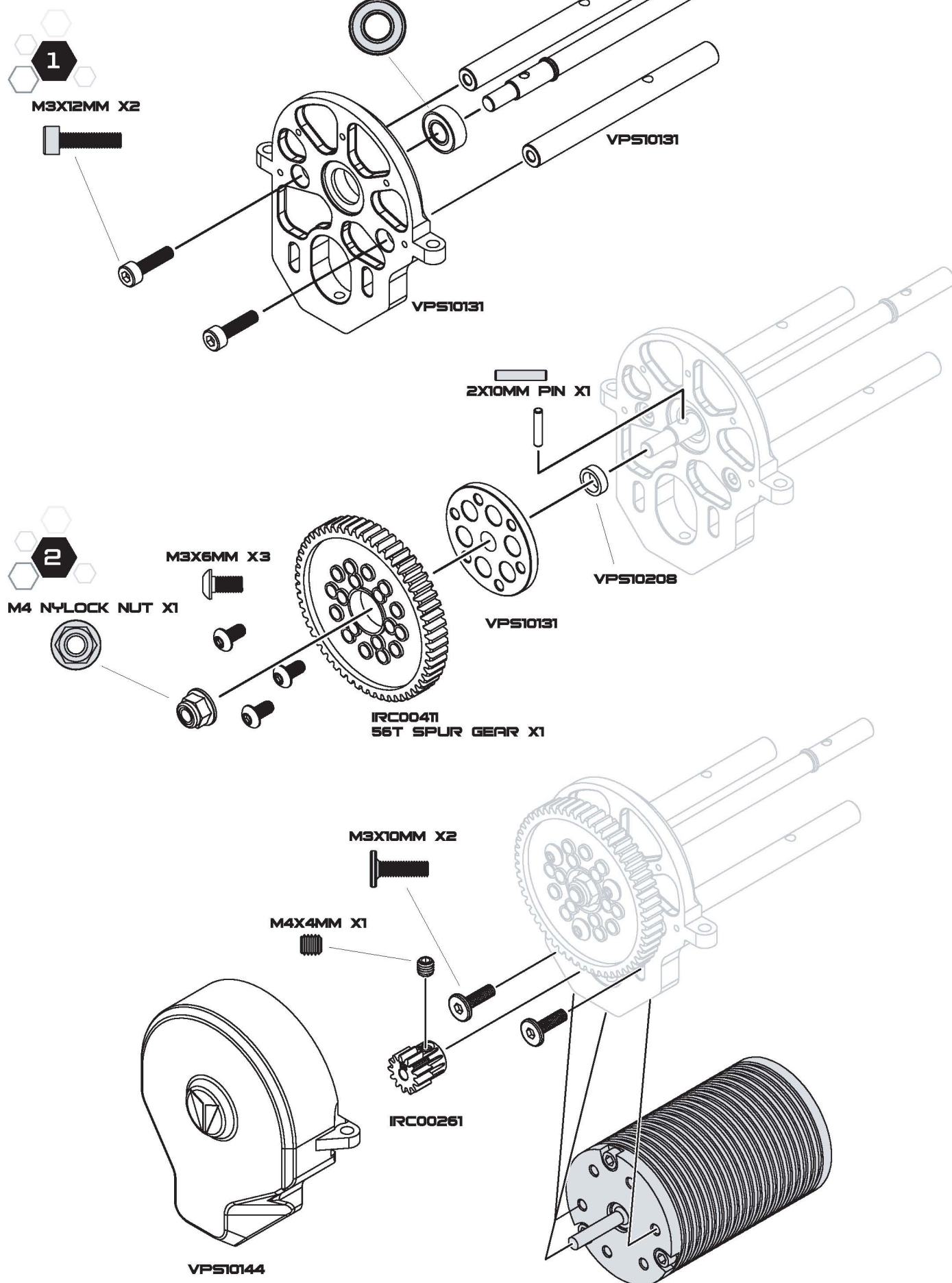


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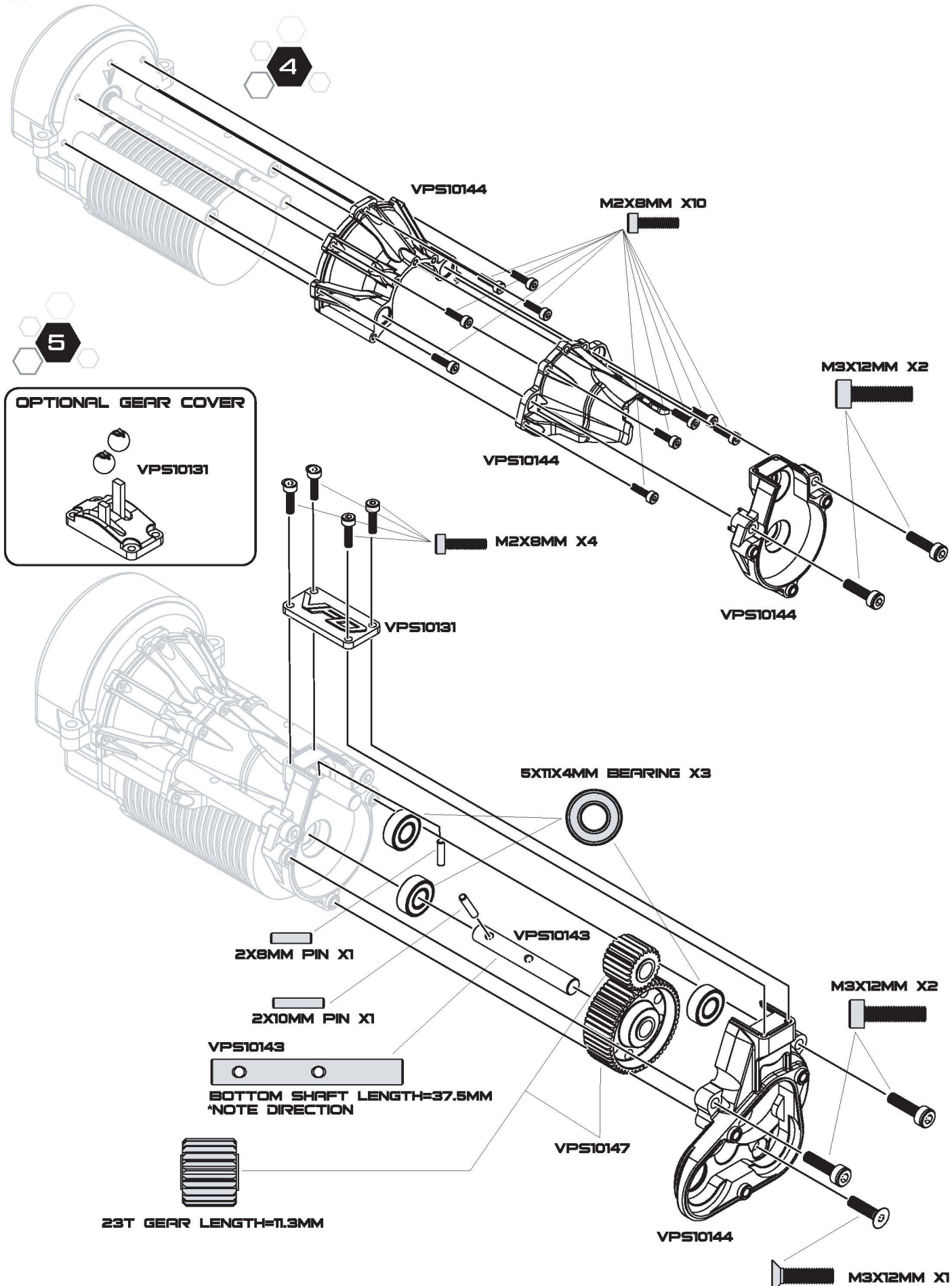
BAG D

■ OPEN BAG D



BAG D

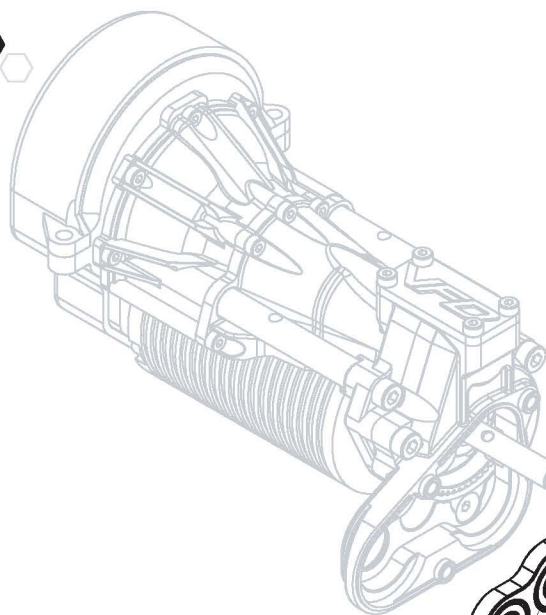
TRANSMISSION



BAG D

TRANSMISSION

6



2X8MM PIN X1

VPS10131

VPS10147
23T GEAR
LENGTH=13.8MM

VPS10143
REAR OUTPUT SHAFT
LENGTH=50MM
*NOTE DIRECTION

VPS10131

VPS10147
32T GEAR
REAR OUTPUT

VPS10131

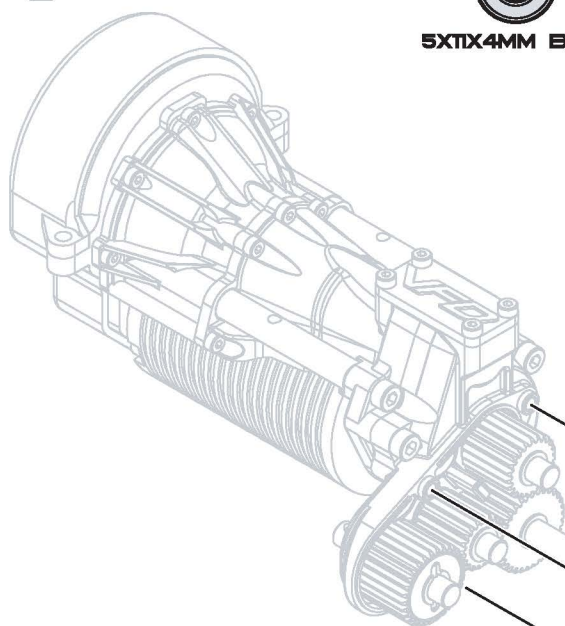
2X10MM PIN X2

5XTX4MM BEARING X4

VPS10147
30T OVERDRIVE GEAR
FRONT OUTPUT

VPS10143
FRONT OUTPUT
LENGTH=29.5MM
*NOTE DIRECTION

7



VPS10131

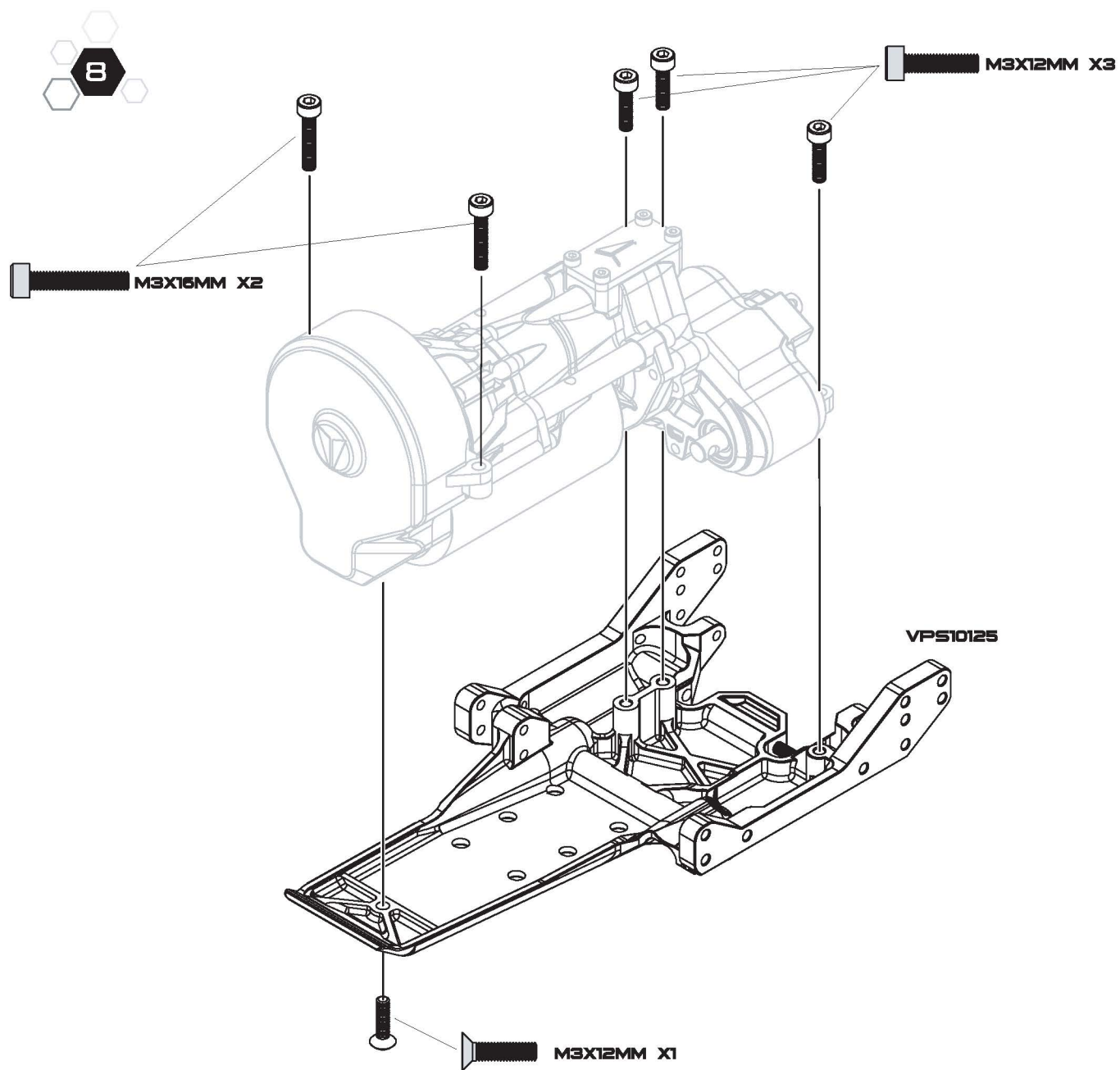
5XTX4MM BEARING X5

M3X12MM X2

VPS10144

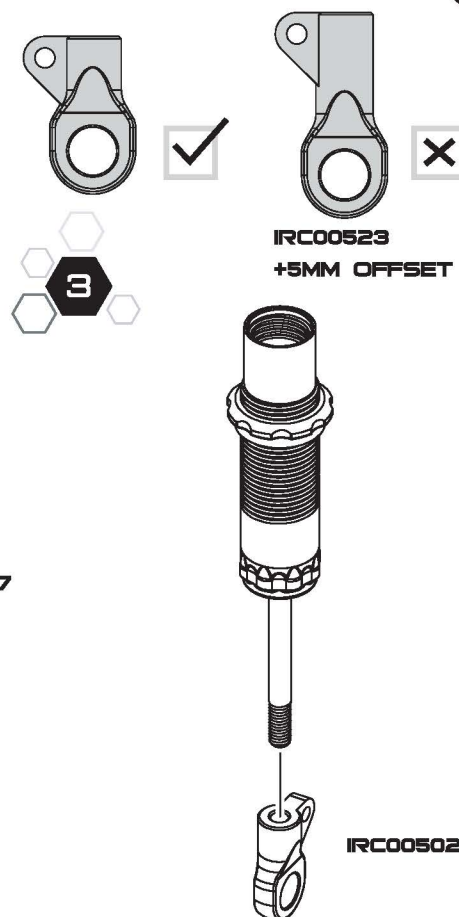
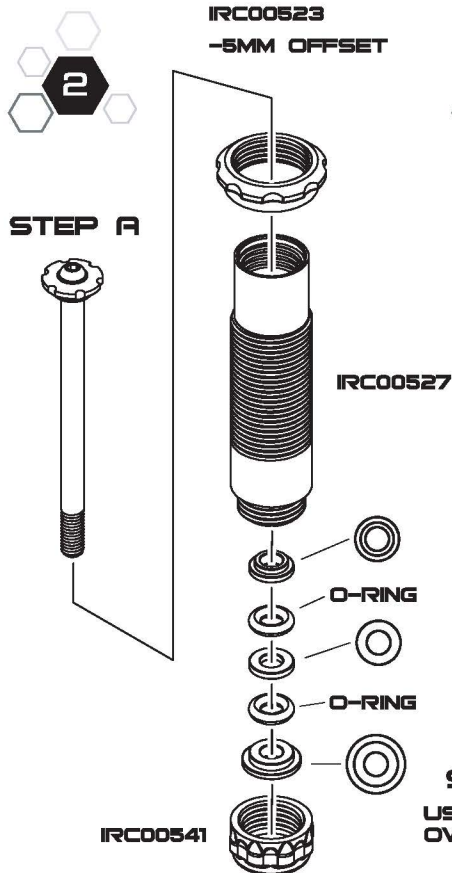
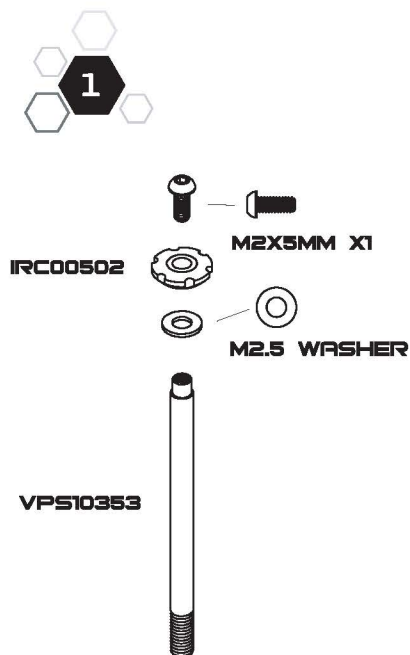
M3X30MM X1

TRANSMISSION



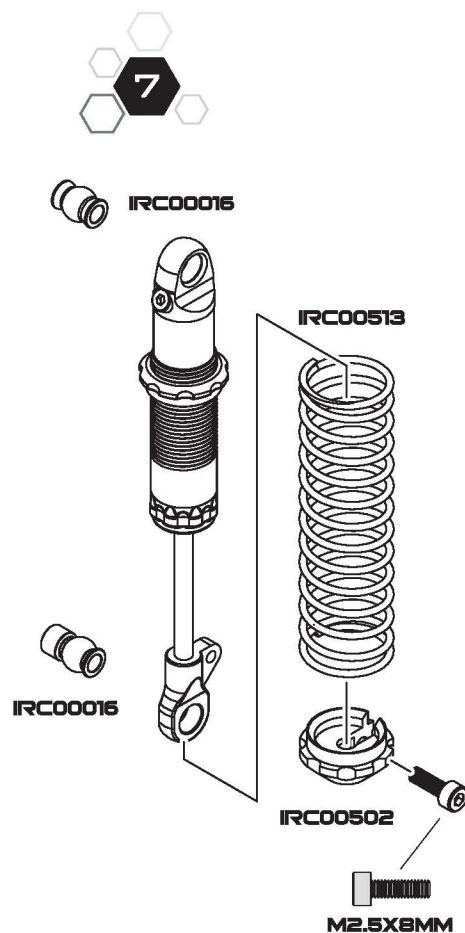
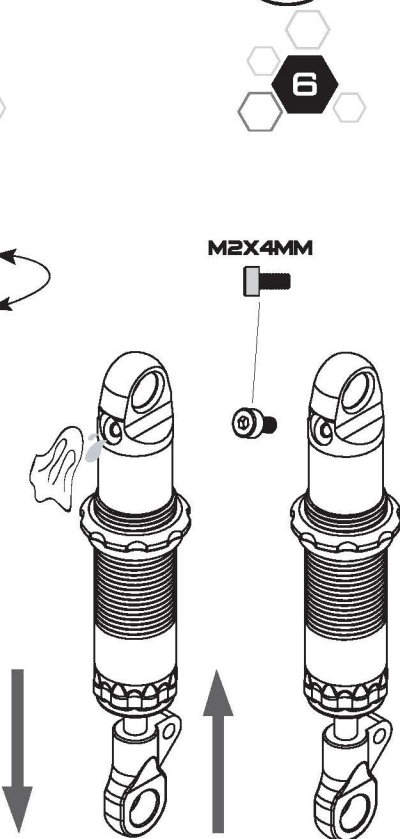
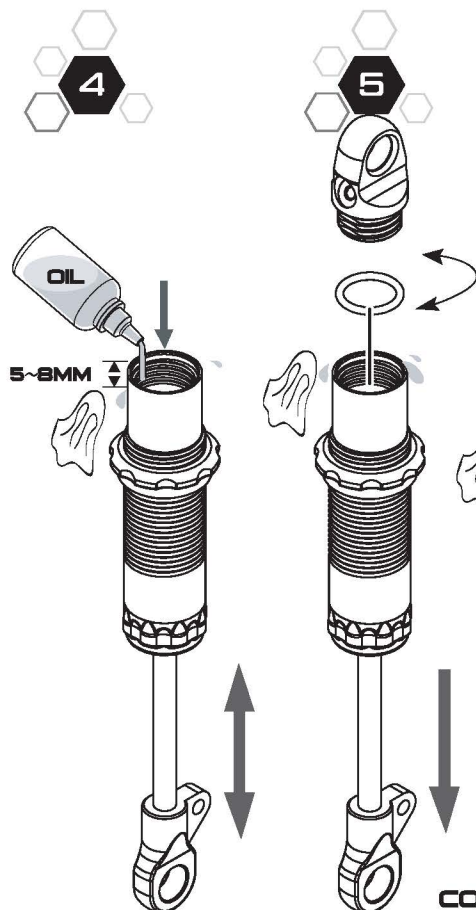
BAG E

■ S8E SHOCK ASSEMBLY OPEN BAG E



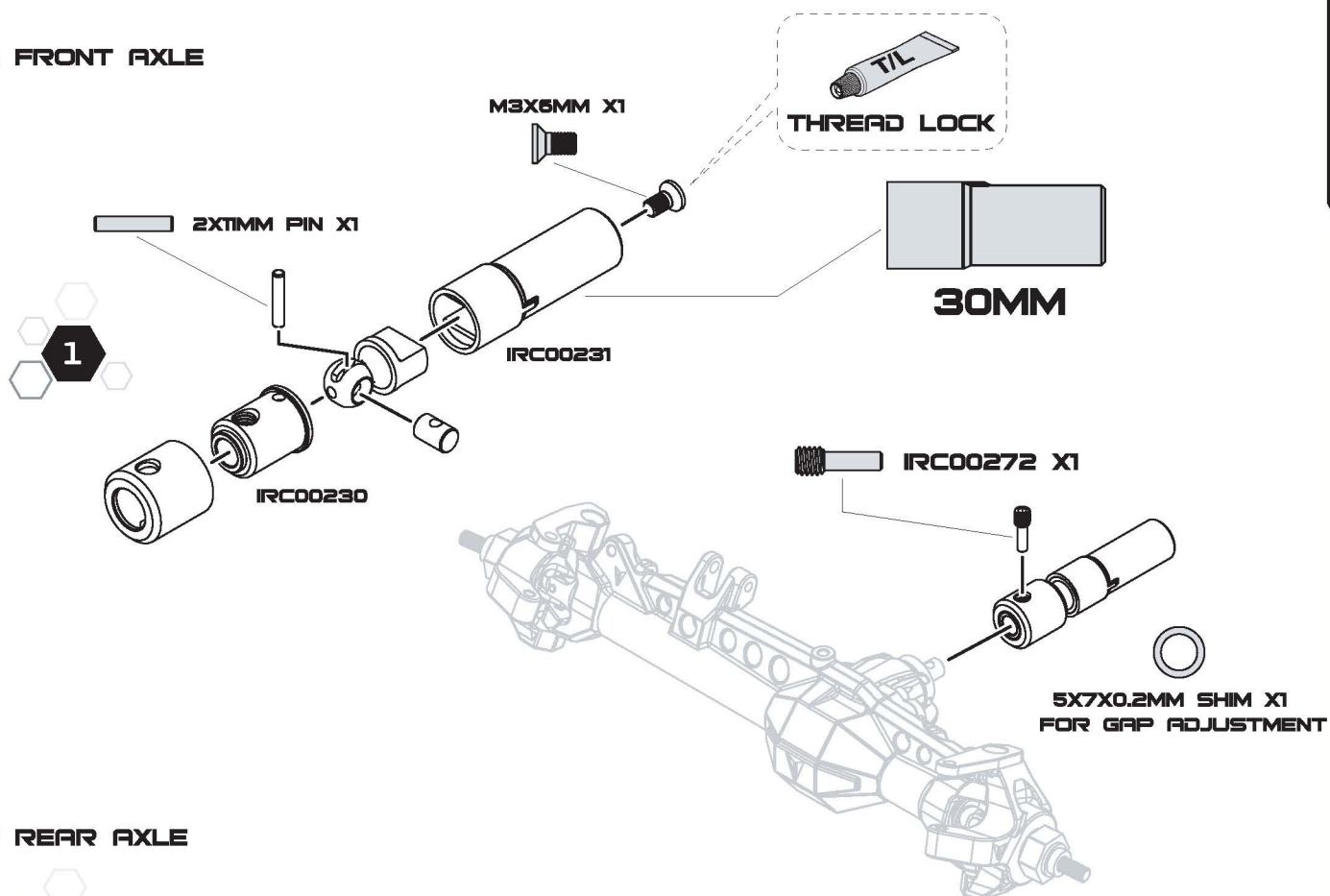
STEP B

USE CARE WHEN INSTALLING O-RINGS
OVER SHOCK SHAFT THREADS

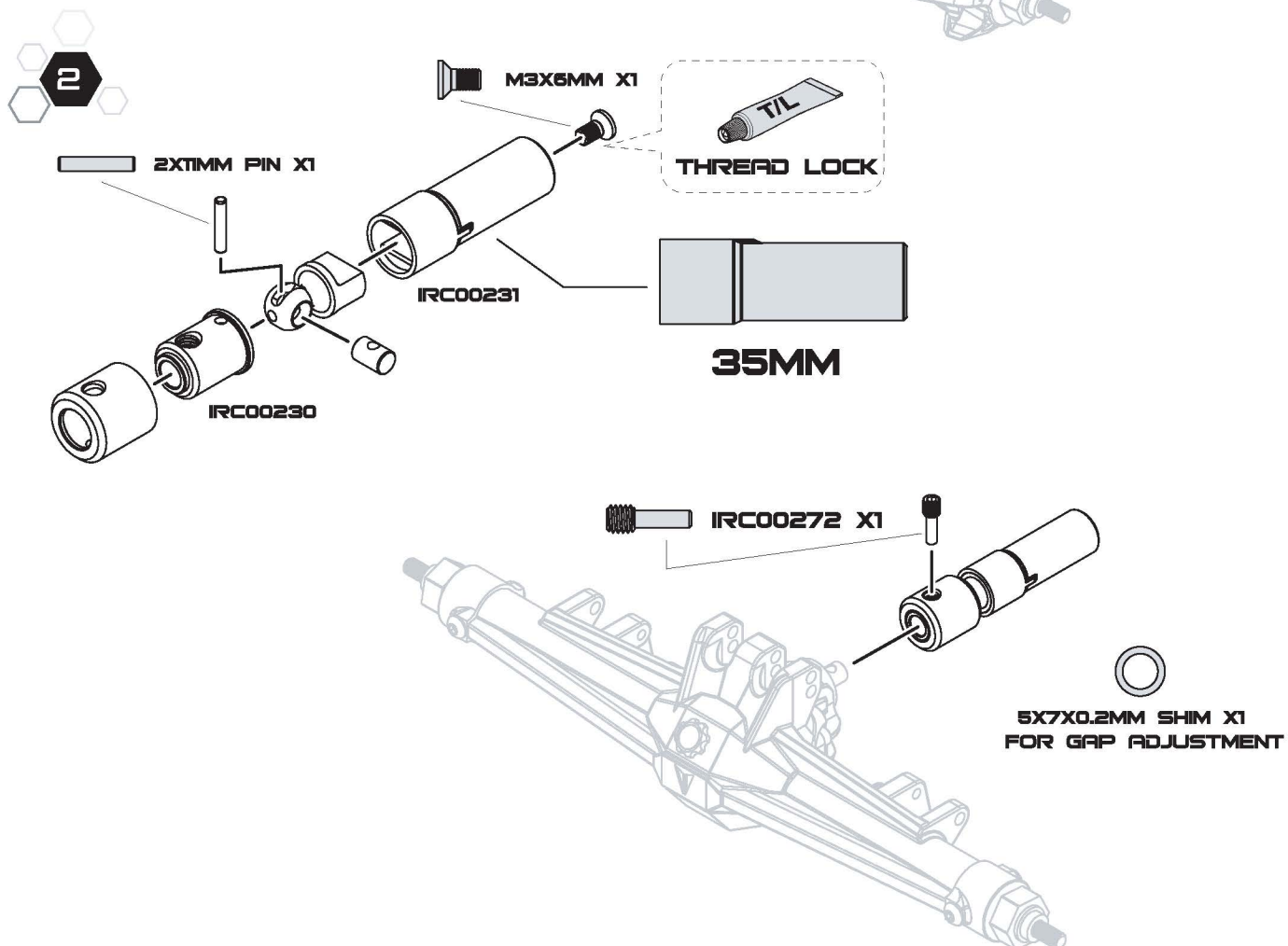


COMPRESS SHOCK
COMPLETELY THEN INSERT
BLEED SCREW

FRONT AXLE

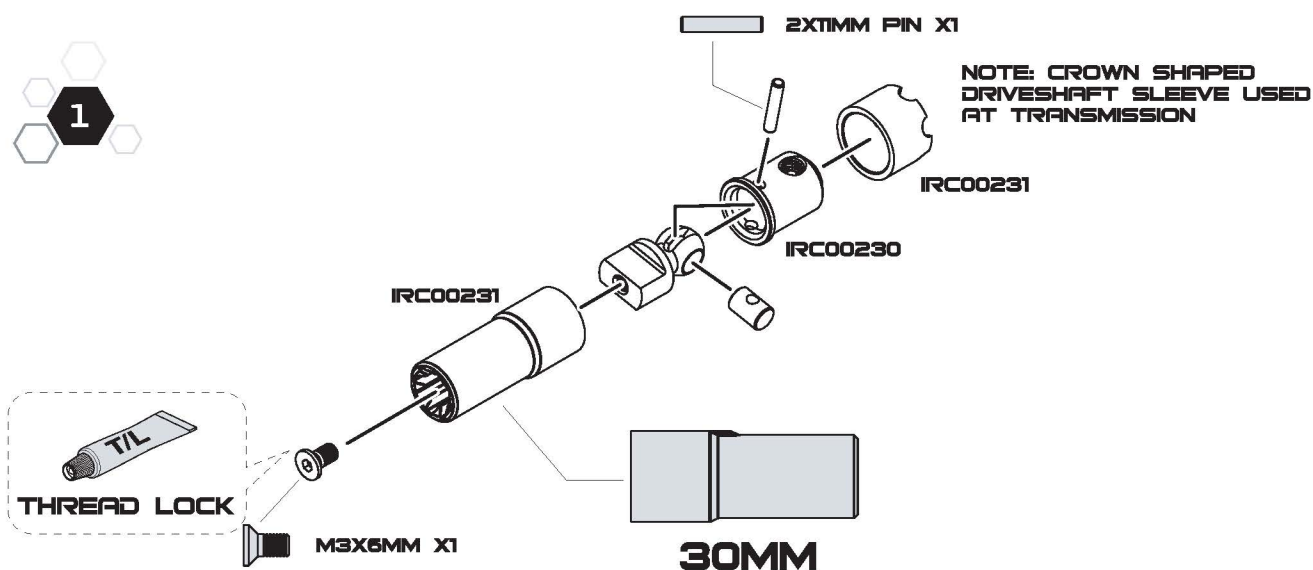


REAR AXLE



FRONT

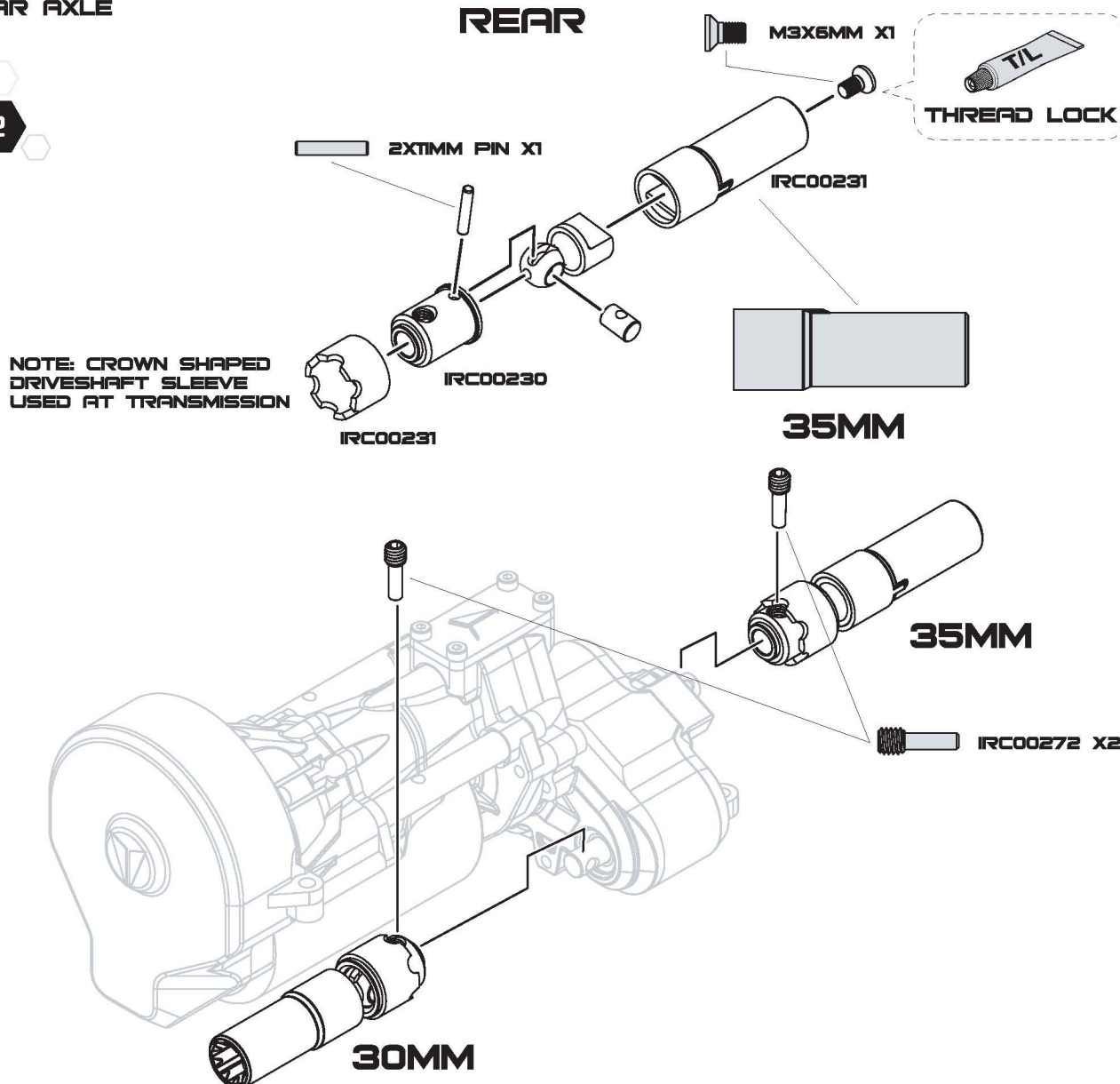
FRONT AXLE



REAR AXLE



REAR



■ LINKS TO CHASSIS

X2 REAR LOWER LINKS 124.0MM



X2 REAR UPPER LINKS 117.0MM



X2 FRONT LOWER LINKS 103.0MM



X1 FRONT UPPER LINK 90.5MM



X1 PANHARD LINK 80.5MM



X1 DRAG LINK 80.5MM

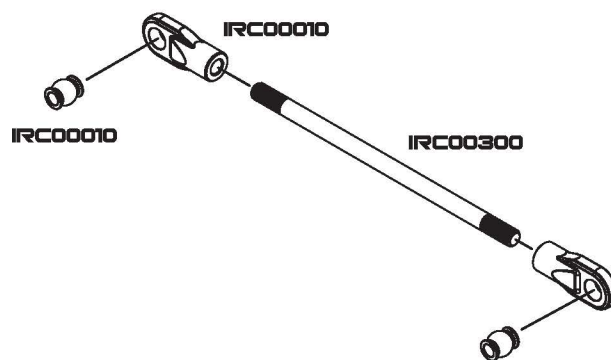


X1 TIE ROD LINK 126.0MM

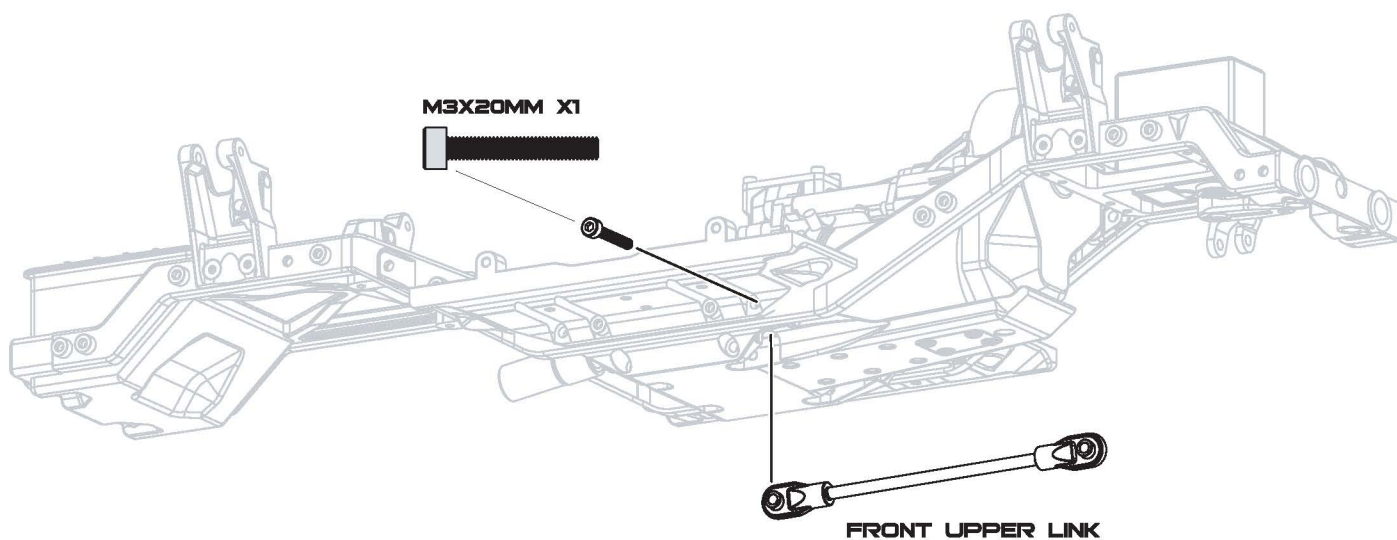


*NOTE: PANHARD AND DRAG LINK CAN BE SHORTENED AS NEEDED IF RUNNING SHORTER SHOCKS.

1



2

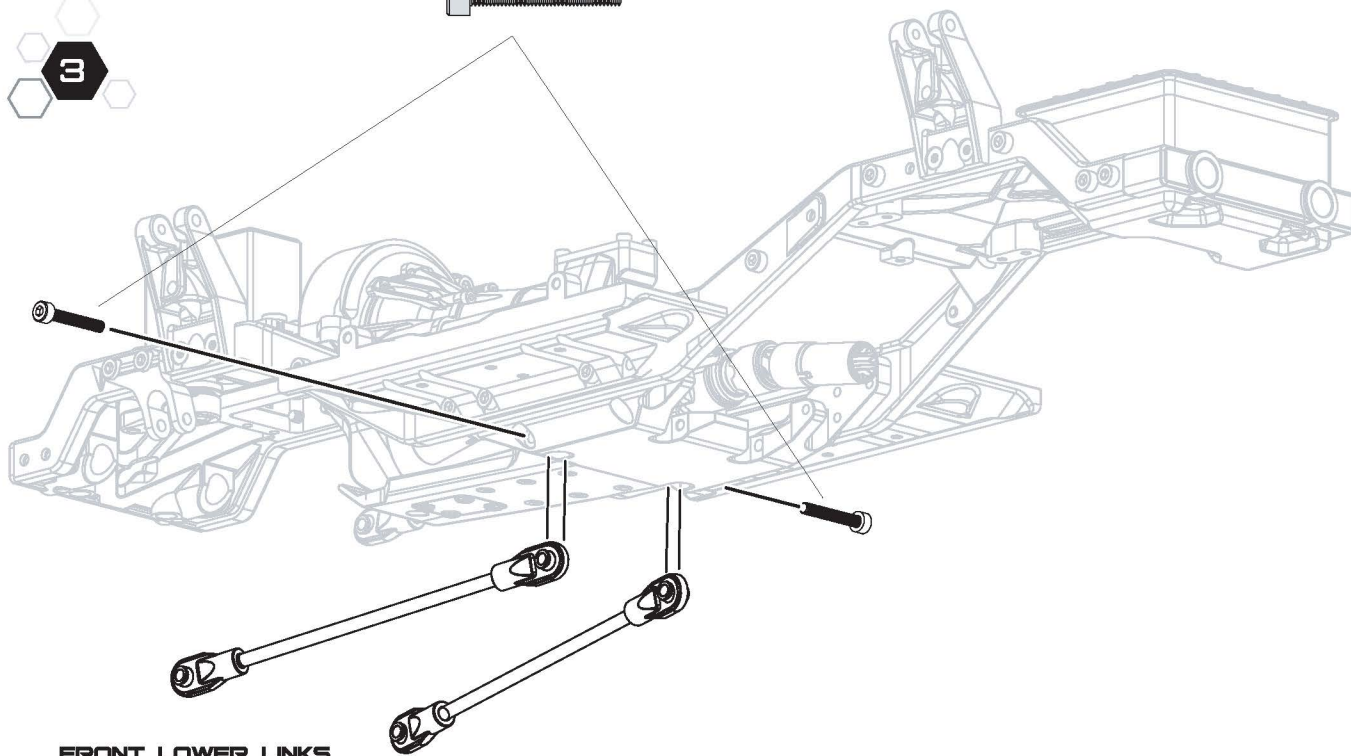


■ LINKS

M3X20MM X2

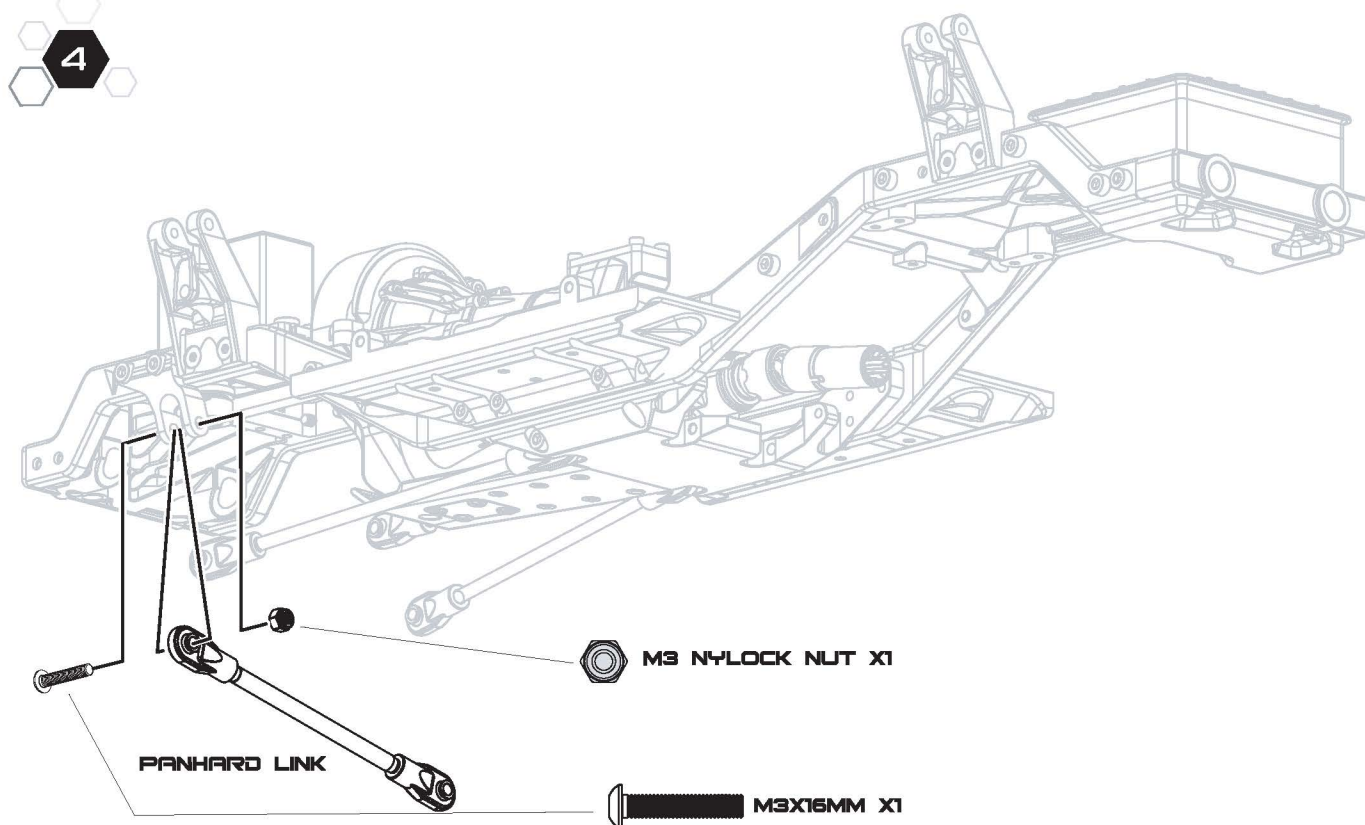


3



FRONT LOWER LINKS

4



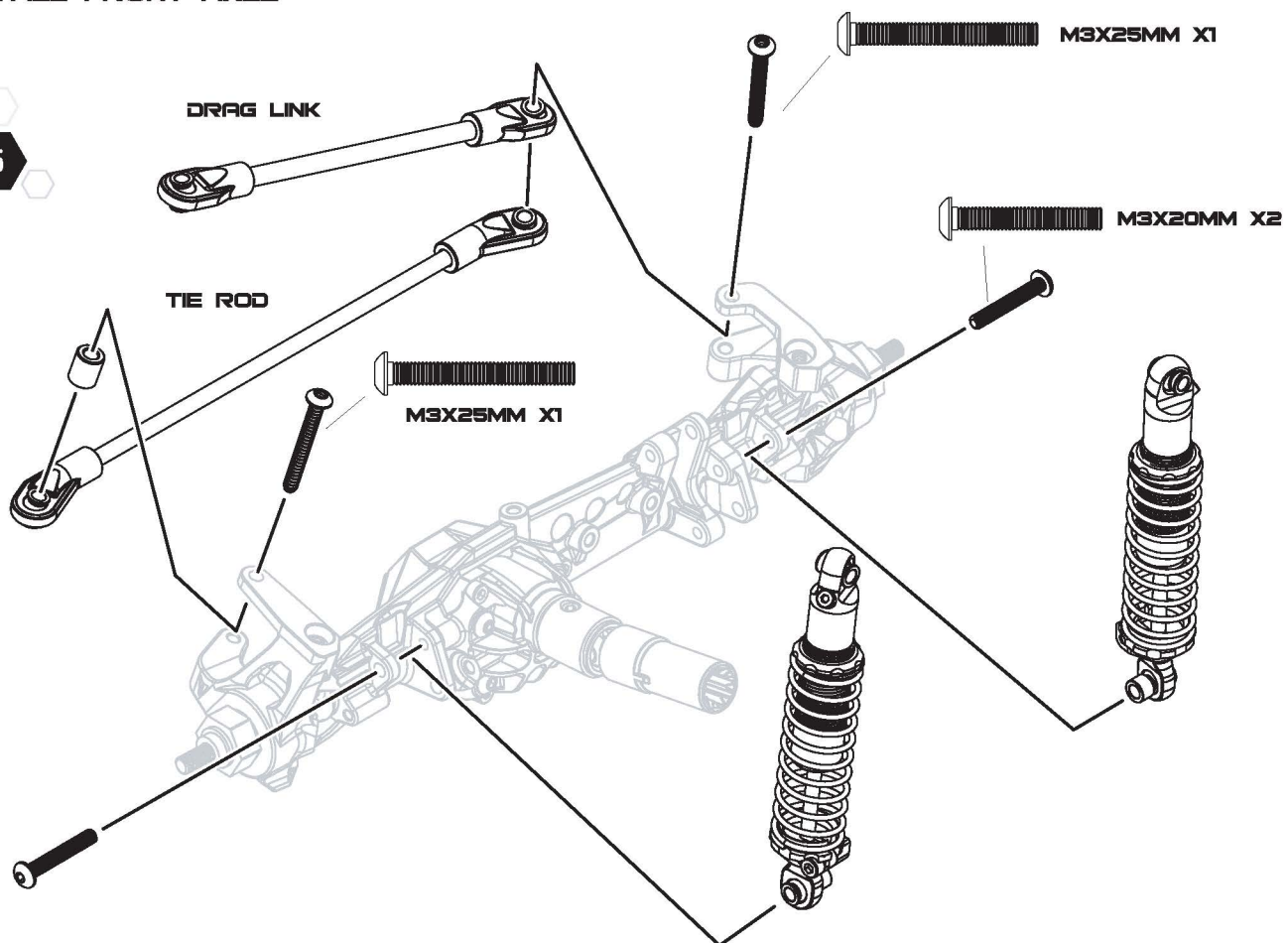
M3 NYLOCK NUT X1

PANHARD LINK

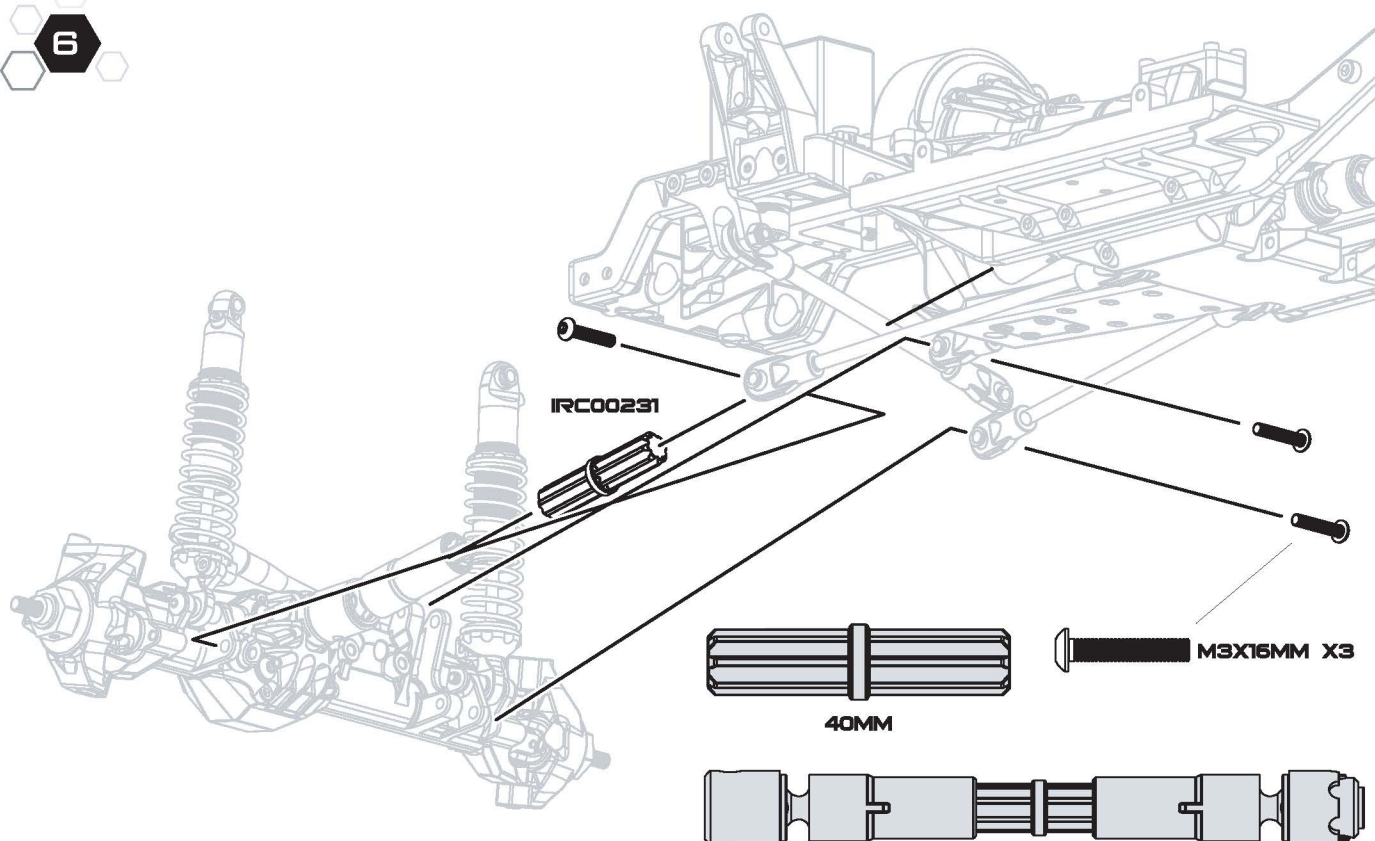
M3X16MM X1

■ INSTALL FRONT AXLE

5

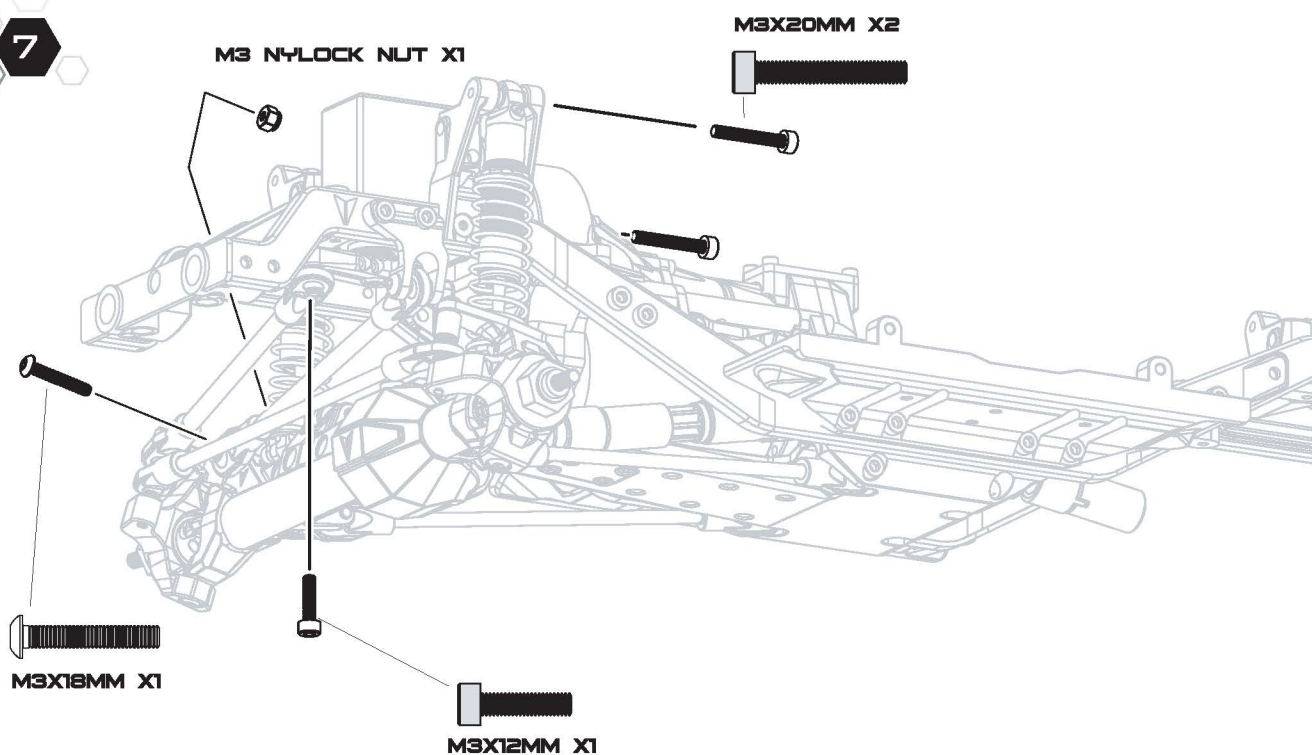


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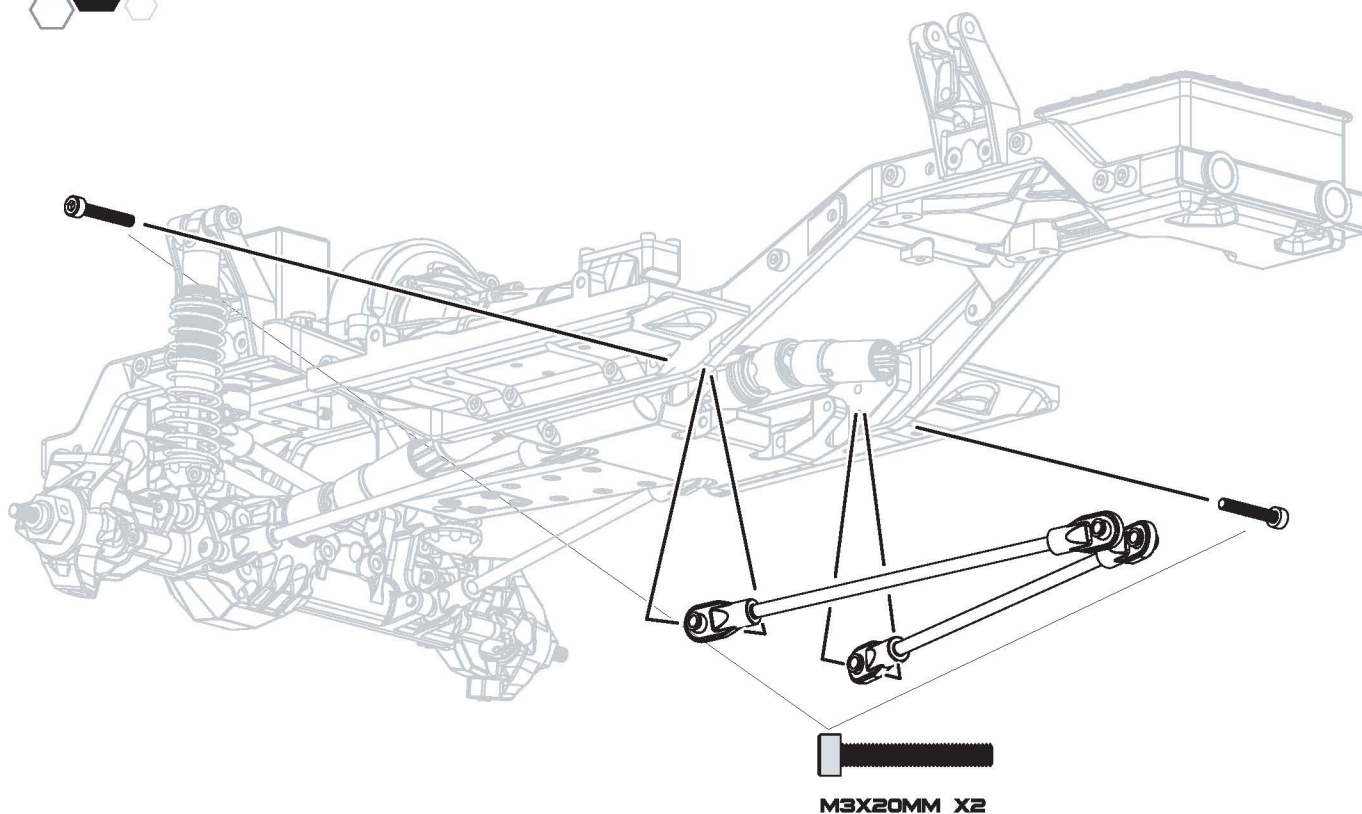


■ INSTALL FRONT AXLE

7

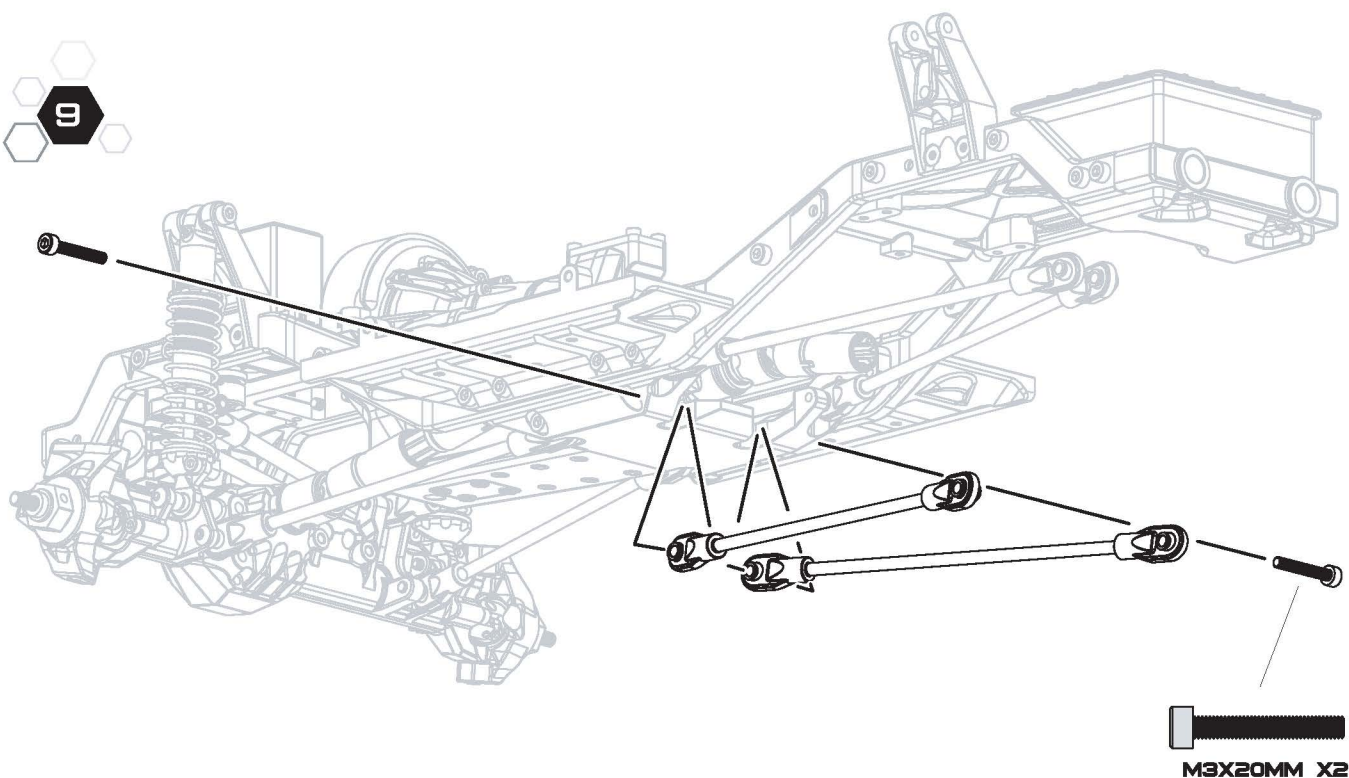


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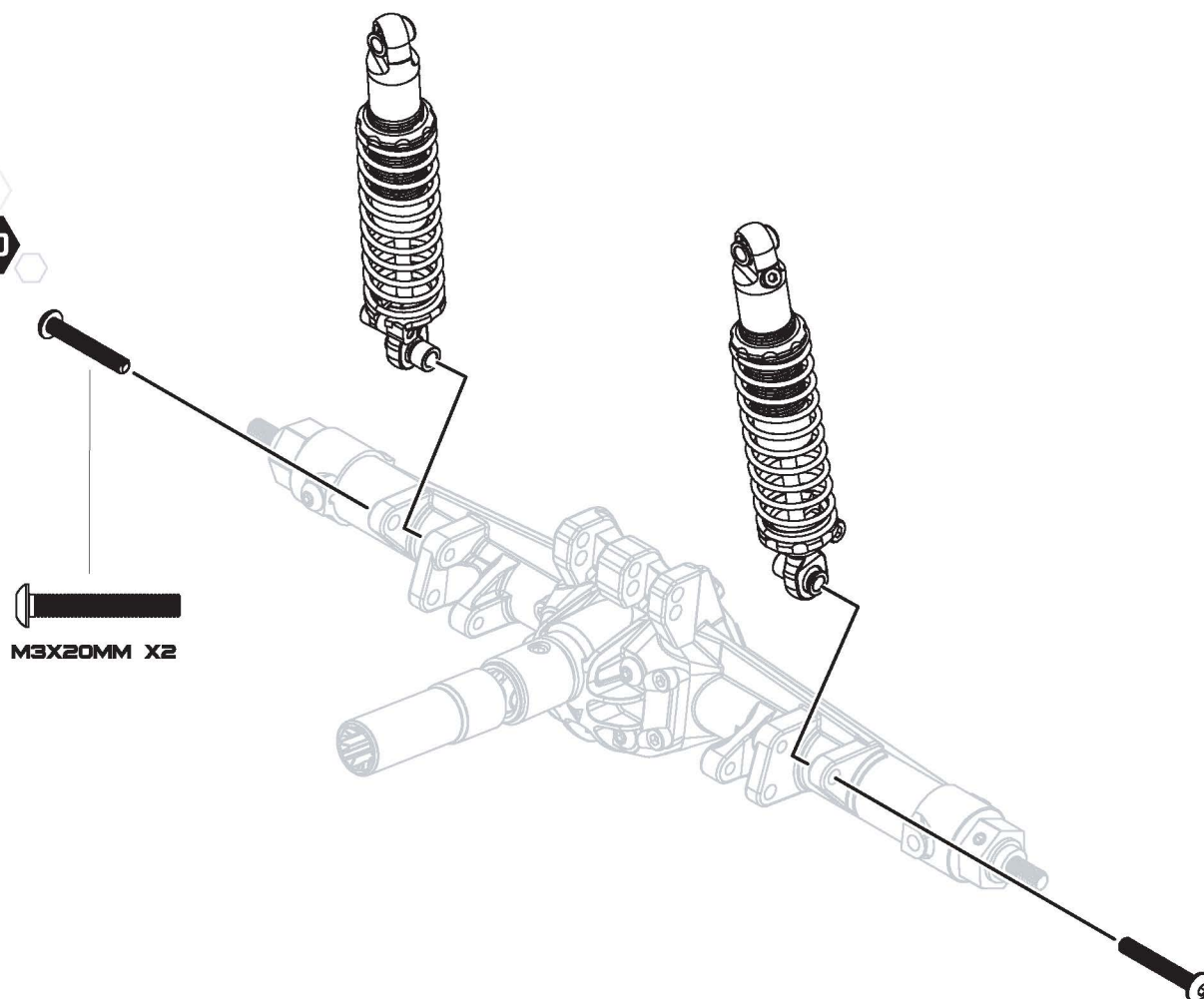


■ INSTALL REAR AXLE

9

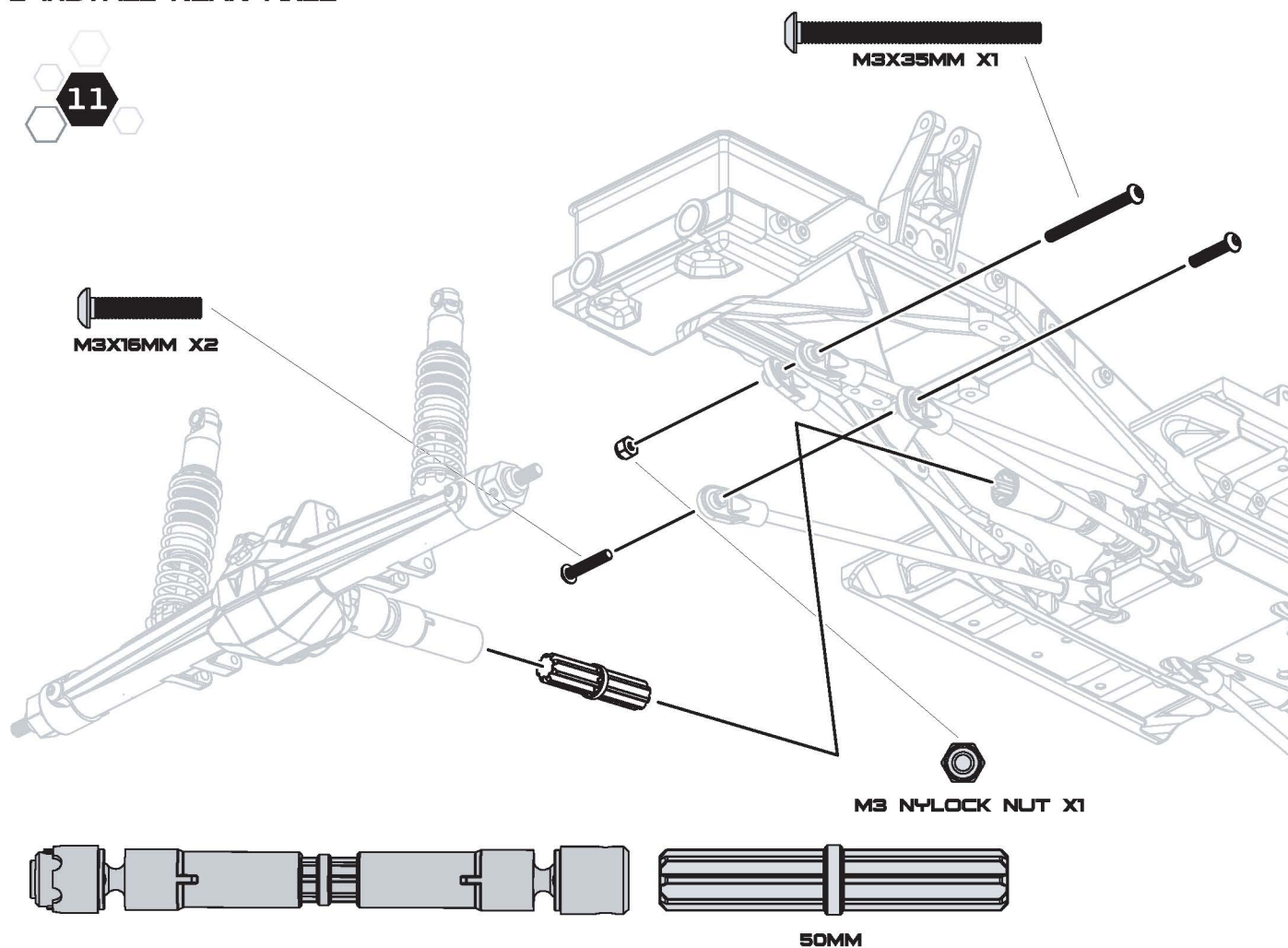


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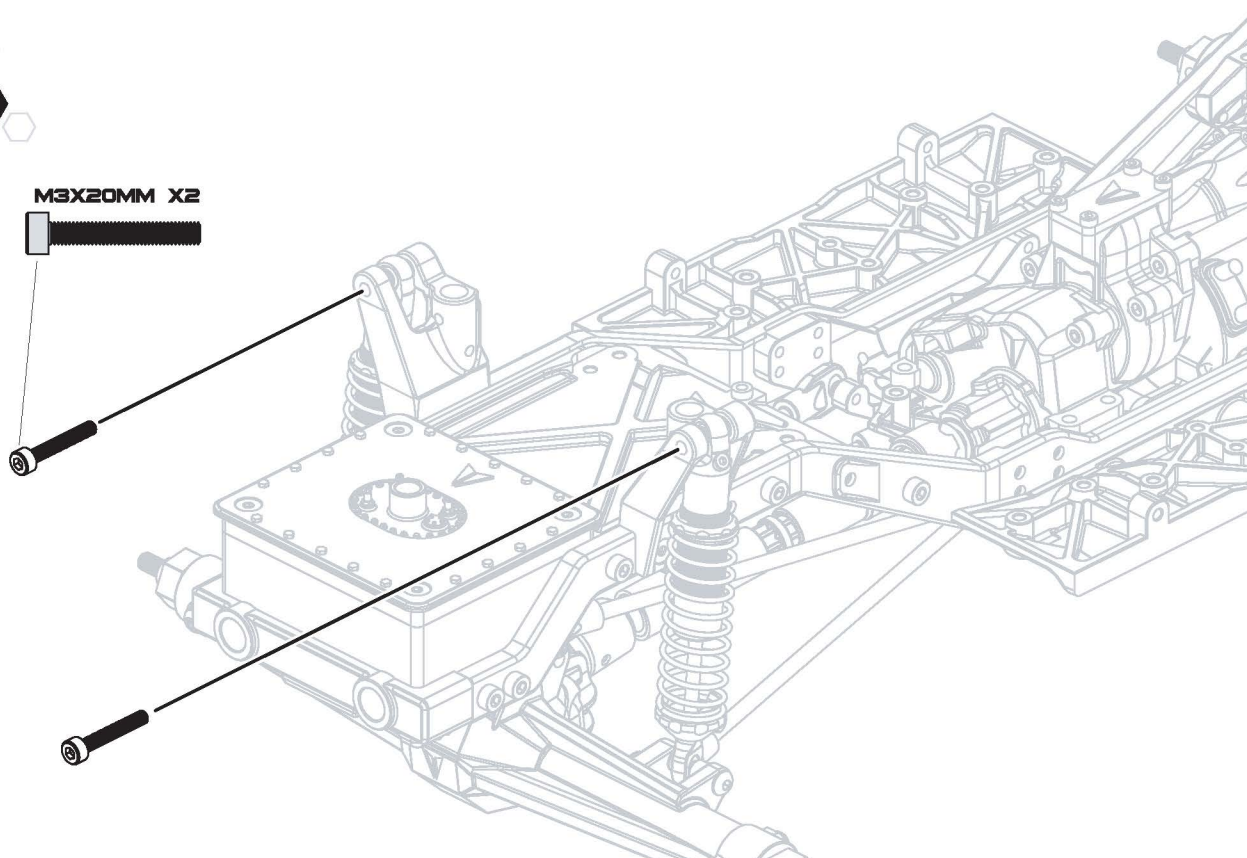
■ INSTALL REAR AXLE

11



12

M3X20MM X2



PARTS LIST

IRC00010 ROD ENDS WITH PIVOT BALLS (12)
 IRC00012 BENT ROD ENDS WITH PIVOT BALLS (4)
 IRC00140 M4 WHEEL NUT
 IRC00181 INCISION VDI UNIVERSALS
 IRC00230 ISD10 DRIVESHAFT SET
 IRC00231 ISD10 REPLACEMENT PARTS TREE
 IRC00261 13T 32P PINION
 IRC00271 INCISION KINGPIN SHOULDER SCREWS (4)
 IRC00272 M4 SCREW SHAFT (10)
 IRC00273 BODY PINS (10)
 IRC00275 WASHER HEAD SCREW (4)
 IRC00300 VS4-10 LINK SET
 IRC00304 126MM TIE ROD 4MM STRAIGHT
 IRC00402 56T 32P SPUR GEAR
 IRC00502 S8E SHOCK MOLDED COMPONENTS
 IRC00527 S8E 90MM SHOCK BODY
 IRC00507 S8E SHOCK REBUILD KIT
 IRC00509 S8E UPPER AND LOWER SHOCK PIVOT BALL SET
 IRC00541 S8E/S8I MOLDED LOWER SHOCK CAP
 VPS02420 POWDER METAL SERVO HORN
 VPS08082 REAR AXLE SHAFTS

VPS08333 PM HYPOID GEAR
 VPS08602 F10 STRAIGHT FRONT AXLE SET
 VPS08603 F10 STRAIGHT REAR AXLE SET
 VPS08606 F10 AXLE COMPONENTS
 VPS08620 F10 FRONT AXLE HOUSING
 VPS08621 F10 REAR AXLE HOUSING
 VPS08622 F10 STRAIGHT AXLE KNUCKLES AND LOCKOUTS
 VPS10110 VANQUISH VELCRO STRAP
 VPS10112 VS4-10 FRAME RAIL (2)
 VPS10113 VS4-10 BODY POST SET
 VPS10114 VS4-10 SHOCK TOWER SET (2 PAIR)
 VPS10125 CHASSIS SKID AND COMPONENTS
 VPS10126 CHASSIS BRACES / SERVO MOUNT
 VPS10129 BATTERY AND ELECTRONICS TRAYS
 VPS10129 VFD MOTOR PLATE AND COMPONENT SET
 VPS10143 VFD SHAFT SET
 VPS10144 VS4-10 VFD TRANSMISSION HOUSING
 VPS10147 STANDARD VFD GEARS
 VPS10147 VFD GEAR SET
 VPS10207 E-5 CLIP
 VPS10208 VFD SLIPPER SET
 VPS10353 S8E 90MM SHOCK SHAFT W/MACHINED PISTON

OPTION PARTS

IRC00013 PRO ROD ENDS WITH PIVOT BALLS (12)
 IRC00014 PRO BENT ROD ENDS WITH PIVOT BALLS (4)
 IRC00220 INCISION DRIVESHAFT SET
 IRC00220 INCISION STEEL DRIVESHAFT SET
 IRC00260 12T 32P PINION
 IRC00262 14T 32P PINION
 IRC00263 15T 32P PINION
 IRC00264 16T 32P PINION
 IRC00265 17T 32P PINION
 IRC00270 INCISION MOTOR PLATE CAPHEAD WASHER
 IRC00292 BRASS 12MM HEX
 IRC00404 56T 32P SPUR GEAR
 IRC00410 VFD 52T 32P SLIPPER SPUR GEAR
 IRC00451 INCISION SERIES 2 LIGHT KIT
 IRC00500 S8E 80MM SHOCK SET
 IRC00501 S8E 90MM SHOCK SET
 IRC00526 S8E 80MM SHOCK BODY
 IRC00527 S8E 90MM SHOCK BODY
 IRC00512 S8E 80MM SPRING SET
 IRC00513 S8E 90MM SPRING SET
 IRC00514 S8E MACHINED SHOCK CAP Black
 IRC00515 S8E MACHINED SHOCK CAP Orange
 IRC00516 S8E MACHINED SHOCK CAP Blue
 IRC00517 S8E MACHINED Spring COLLAR SET Black
 IRC00518 S8E MACHINED Spring COLLAR SET Orange
 IRC00519 S8E MACHINED Spring COLLAR SET Blue
 IRC00528 S8E 80MM SHOCK BODY HARD ANODIZED
 IRC00529 S8E 90MM SHOCK BODY HARD ANODIZED
 IRC00523 SHOCK TUNING ROD ENDS
 IRC00530 KMC KM237 RIOT BEADLOCK
 IRC00553 S8E/S8I BOLT ON MACHINED POSTON
 VPS01360 VFD HURTZ DIG BLACK
 VPS01361 VFD HURTZ DIG CLEAR
 VPS02412 STEERING CLAMPING 25T SERVO HORN - 20MM

VPS05253 1.9 BRASS 0.8" WHEEL CLAMP RINGS (PAIR)
 VPS07080 12MM HEX CLEAR ANODIZED
 VPS07082 12MM HEX BLACK ANODIZED
 VPS08070 6 HOLE SPOOL / LOCKER
 VPS08330 30T/8T HYPOID GEAR SET
 VPS08331 AR44 AXLE UNDERDRIVE GEAR SET - 33T/8T
 VPS08614 F10 RED OIL FILL CAP
 VPS08623 F10 FRONT AXLE THIRD MEMBER - BLACK ANODIZED
 VPS08624 F10 FRONT AXLE THIRD MEMBER - CLEAR ANODIZED
 VPS08625 F10 REAR AXLE THIRD MEMBER - BLACK ANODIZED
 VPS08626 F10 REAR AXLE THIRD MEMBER - CLEAR ANODIZED
 VPS10102 VXT2 1.9 TIRES RED COMPOUND
 VPS10103 FALKEN WILDPEAK M/T 1.9 TIRES
 VPS10105 YOKOHAMA GEOLANDAR M/T 1.9 TIRES
 VPS10116 ORIGIN BODY SET
 VPS10121 ORIGIN HALFCAB BODY SET
 VPS10122 ORIGIN PRO TUBE BUMPERS
 VPS10124 ORIGIN ROCK SLIDERS
 VPS10133 PHOENIX BODY SET W/VRD1 CAGE
 VPS10141 VFD MACHINED GEAR SET
 VPS10142 VFD TRANSMISSION 30T BEARING PLATE SET
 VPS10145 VFD LIGHTWEIGHT MACHINED TRANSFER CASE GEAR SET
 VPS10145 VFD LIGHTWEIGHT TRANSFER CASE GEAR SET
 VPS10146 VFD 21% OVERDRIVE TRANSFER CASE GEAR SET
 VPS10148 VFD ALUMINUM MOTORPLATE BLACK
 VPS10149 VFD LIGHT WEIGHT ALUMINUM MOTORPLATE
 VPS10151 VS4-10 VFD ALUMINUM TRANS POST
 VPS10153 VFD LIGHTWEIGHT FRONT GEAR SET
 VPS10180 VS4-10 NARROW MOLDED FRONT INNER FENDERS
 VPS10181 PHOENIX BUMPERS AND SLIDERS
 VPS10182 VRD1 REAR CAGE SET
 VPS10200 VFD TWIN TRANSMISSION KIT
 VPS10208 VFD SLIPPER SET
 VPS10209 VFD SLIPPER LOCKOUT SET
 VPS10230 FORDYCE CAB
 VPS10306 VTS STANCE 4.75" DUAL STAGE FOAM
 VPS10413 1.9 SINTERED 0.8" WHEEL CLAMP RING
 VPS10413 PM HEAVY 0.8 CLAMP RINGS
 VPS10414 ALUMINUM SHOCK SPACER - 5MM
 VPS20001 VT1 4CH TRANSMITTER
 VPS20002 VR1 4CH RECEIVER
 VPS20003 VS1 SERVO
 VPS20004 VE1 60AMP ESC
 VPS20005 VM1 35T MOTOR

GEAR RATIO CHART

Axle Ratio: 3.75

Rear Ratio without spur/pinion: 11.8

Front Ratio Standard 6.5% OD without spur/pinion: 11.1

Note: Not all Spur and Pinion combinations are compatible

32P Rear output Ratio

	Spur Gear				
Pinion	48	50	52	54	56
11	51.5	53.6	55.8	57.9	60.1
12	47.2	49.1	51.1	53.1	55.0
13	43.6	45.4	47.2	49.0	50.8
14	40.4	42.1	43.8	45.5	47.2
15	37.7	39.3	40.9	42.5	44.0
16	35.4	36.9	38.3	39.8	41.3
17	33.3	34.7	36.1	37.5	38.9

32P Front Standard OD 6.5% Output Drive Ratio

	Spur Gear				
Pinion	48	50	52	54	56
11	48.3	50.3	52.3	54.3	56.3
12	44.2	46.1	47.9	49.8	51.6
13	40.8	42.5	44.2	45.9	47.6
14	37.9	39.5	41.1	42.7	44.2
15	35.4	36.9	38.3	39.8	41.3
16	33.2	34.6	35.9	37.3	38.7
17	31.2	32.5	33.8	35.1	36.4

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