



VPRD BUILDERS KIT

1:10 SCALE HIGH PERFORMANCE COMPETITION 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.

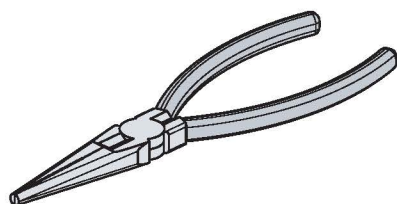
BATTERY SAFETY

- 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.

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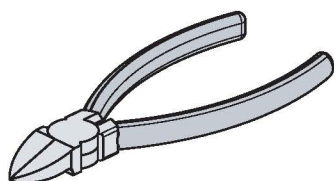
■ NECESSARY FOR MAINTENANCE



NEEDLE NOSE PLIERS
(NOT INCLUDED)



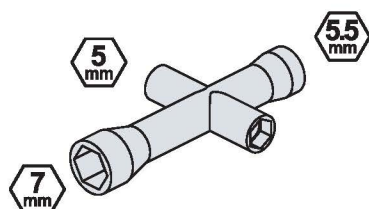
GREASE
(INCLUDED)



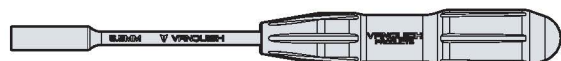
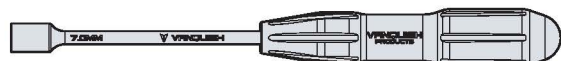
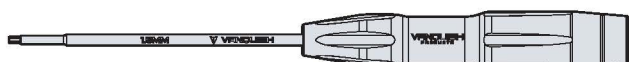
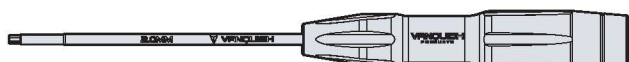
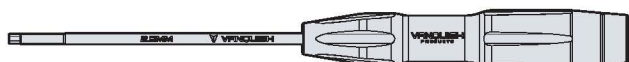
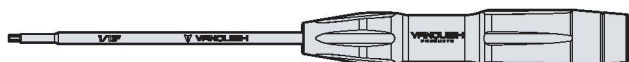
SIDE CUTTERS
(NOT INCLUDED)



THREAD LOCK
(INCLUDED)



CROSS WRENCH
(INCLUDED)



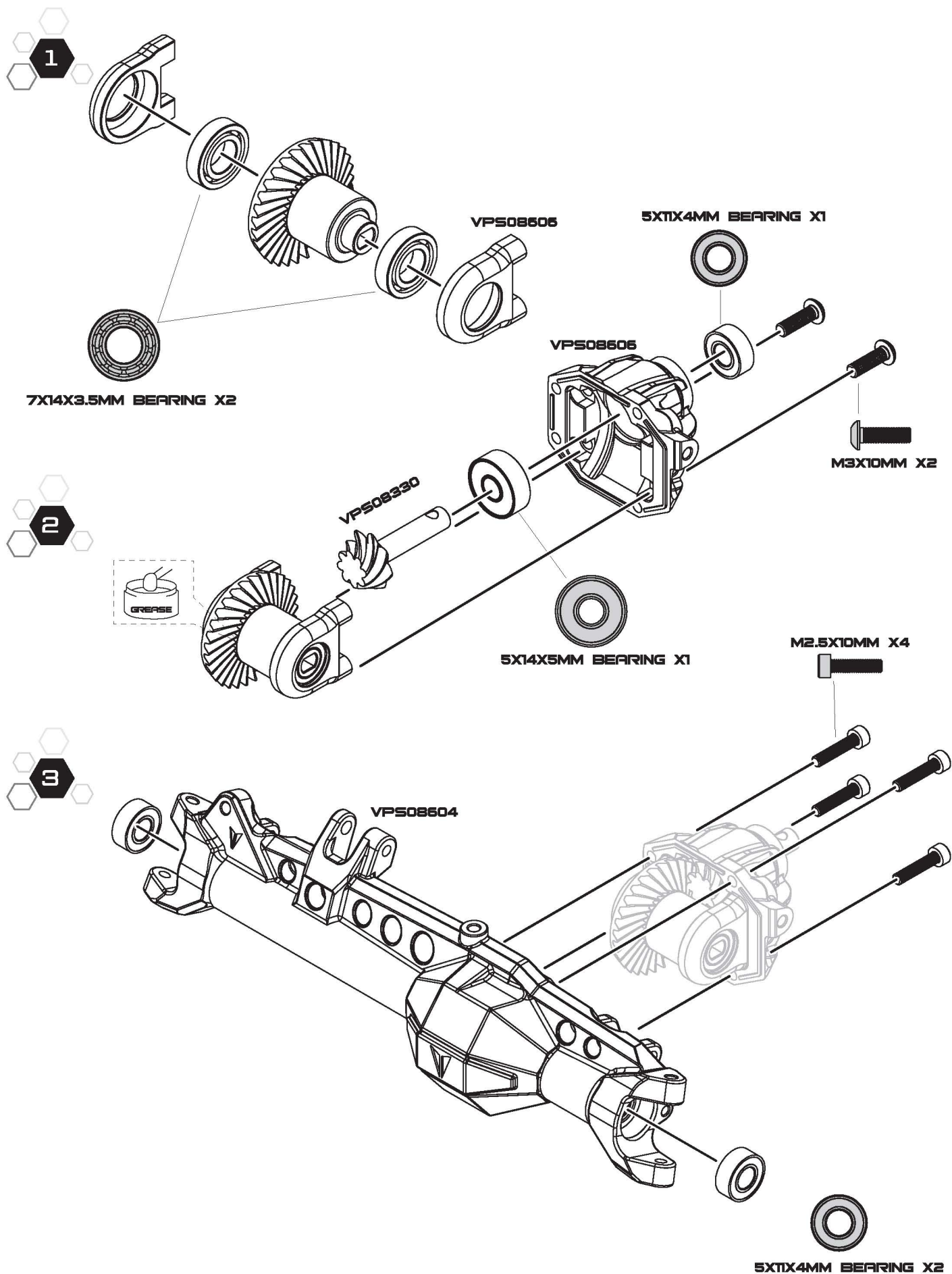
SUGGESTED TOOLS (NOT INCLUDED):

VPS08410 STANDARD TOOL SET

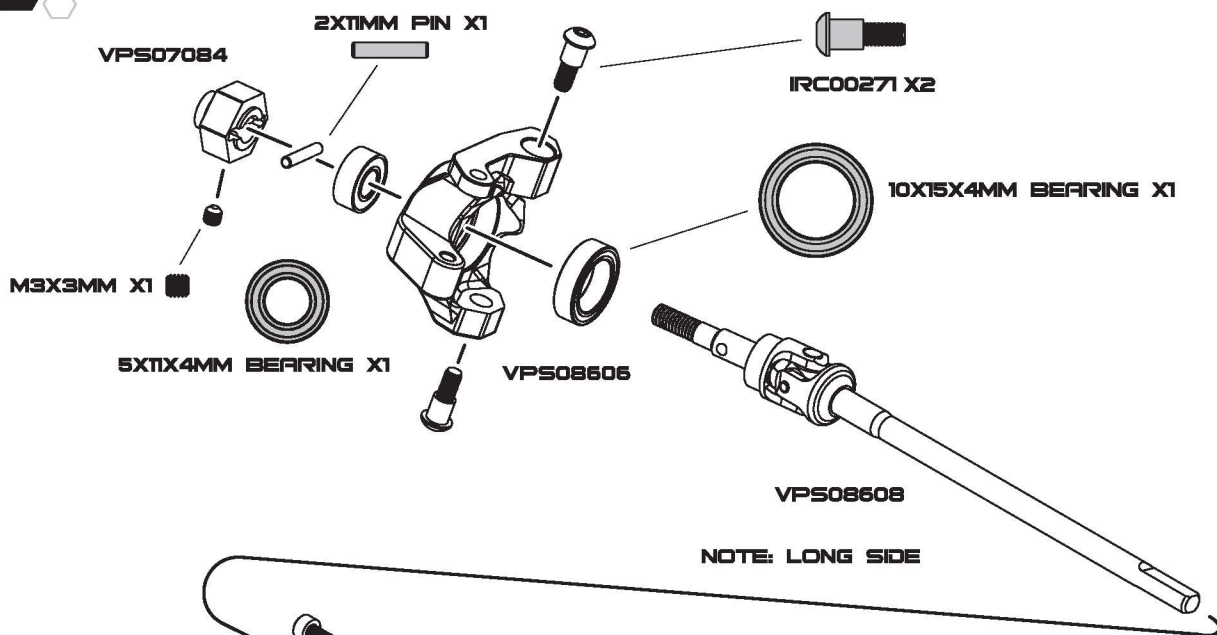
VPS08400 METRIC TOOL SET

VPS08440 METRIC NUT DRIVER TOOL SET

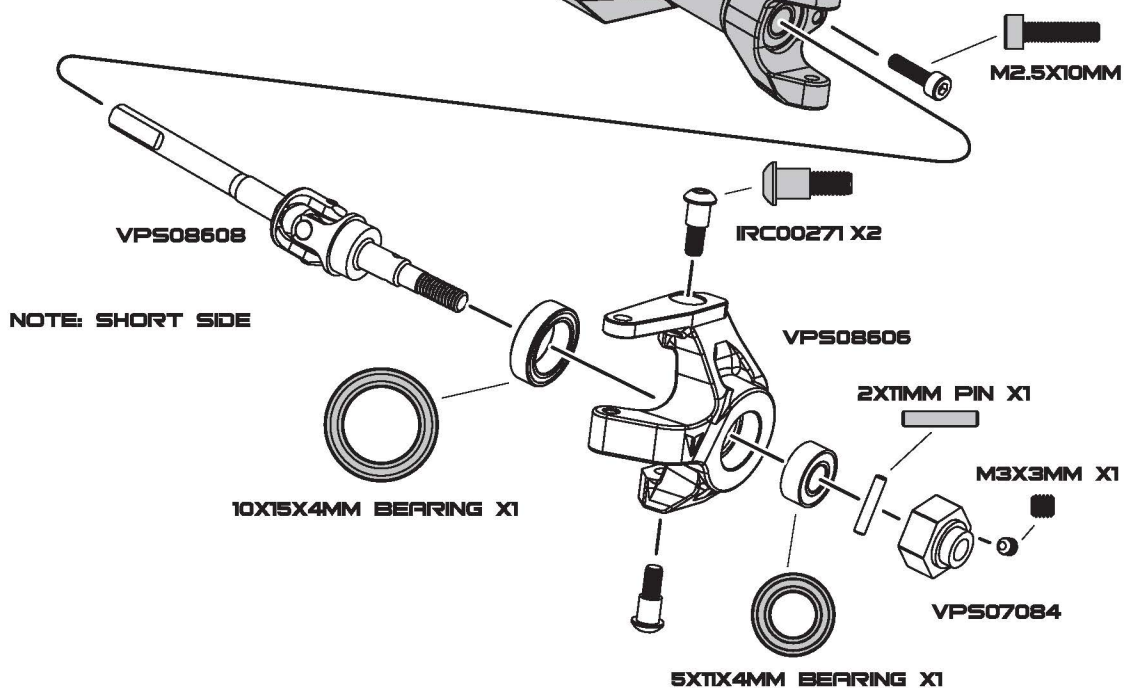
FRONT AXLE



FRONT AXLE



M2.5X10MM



FRONT AXLE

1

20MM 25T SERVO HORN
INCLUDED
SERVO HORN REQUIRED FOR
23,24 SPLINE SERVOS.

HARDWARE FROM SERVO
(NOT INCLUDED)

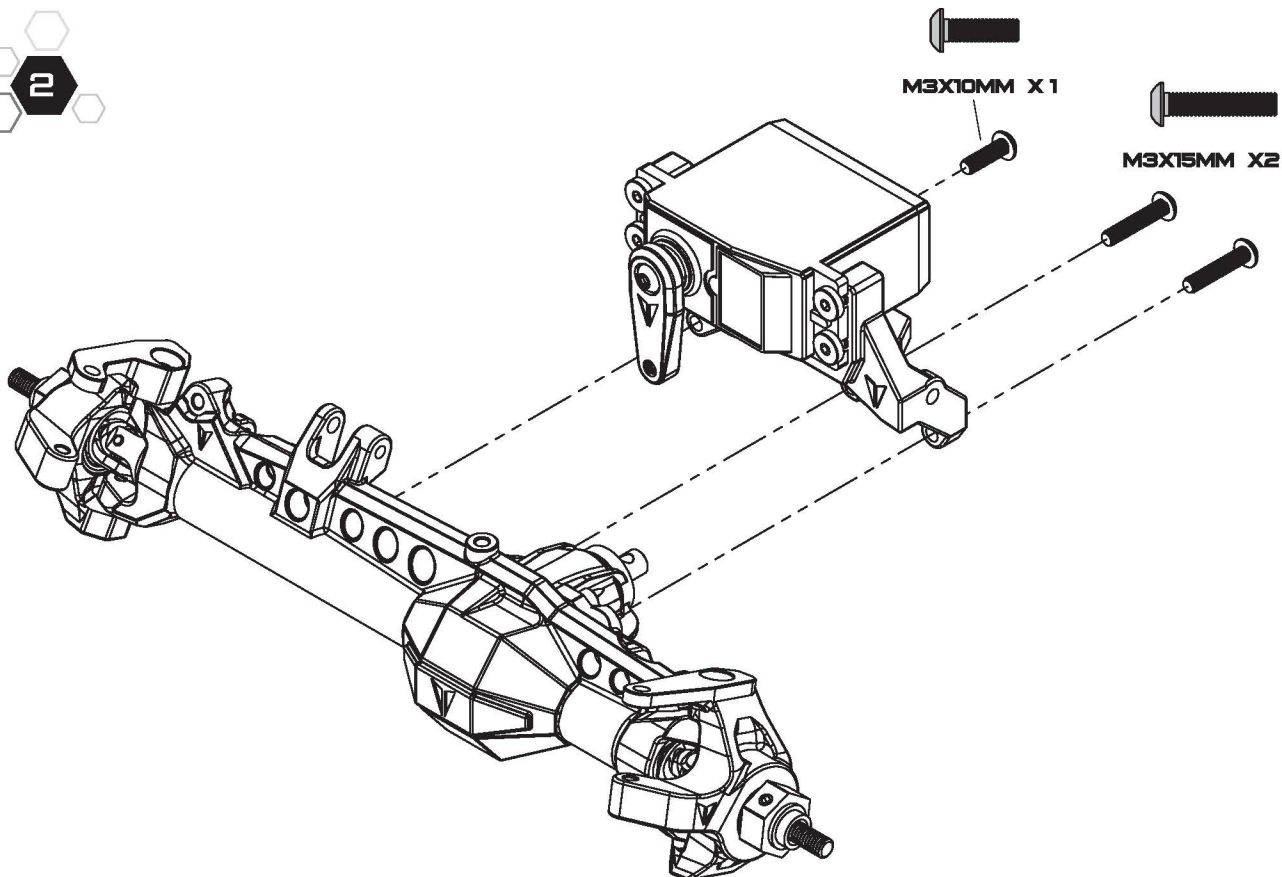
M3X10MM X4

*NOTE DIRECTION OF SERVO
[SERVO NOT INCLUDED]

2

M3X10MM X1

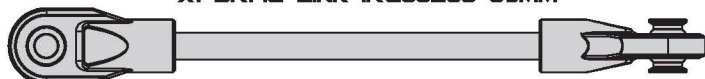
M3X15MM X2



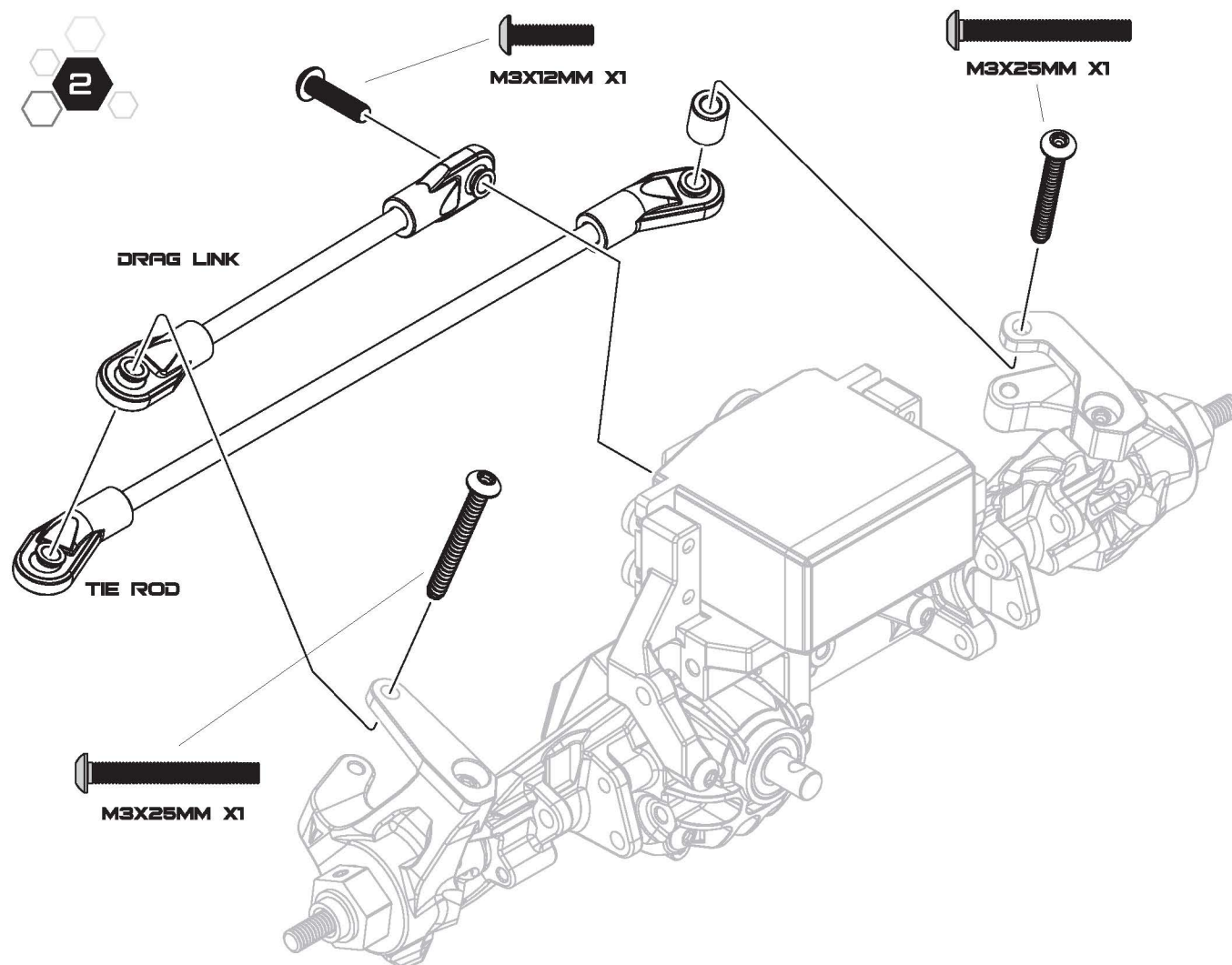
FRONT AXLE



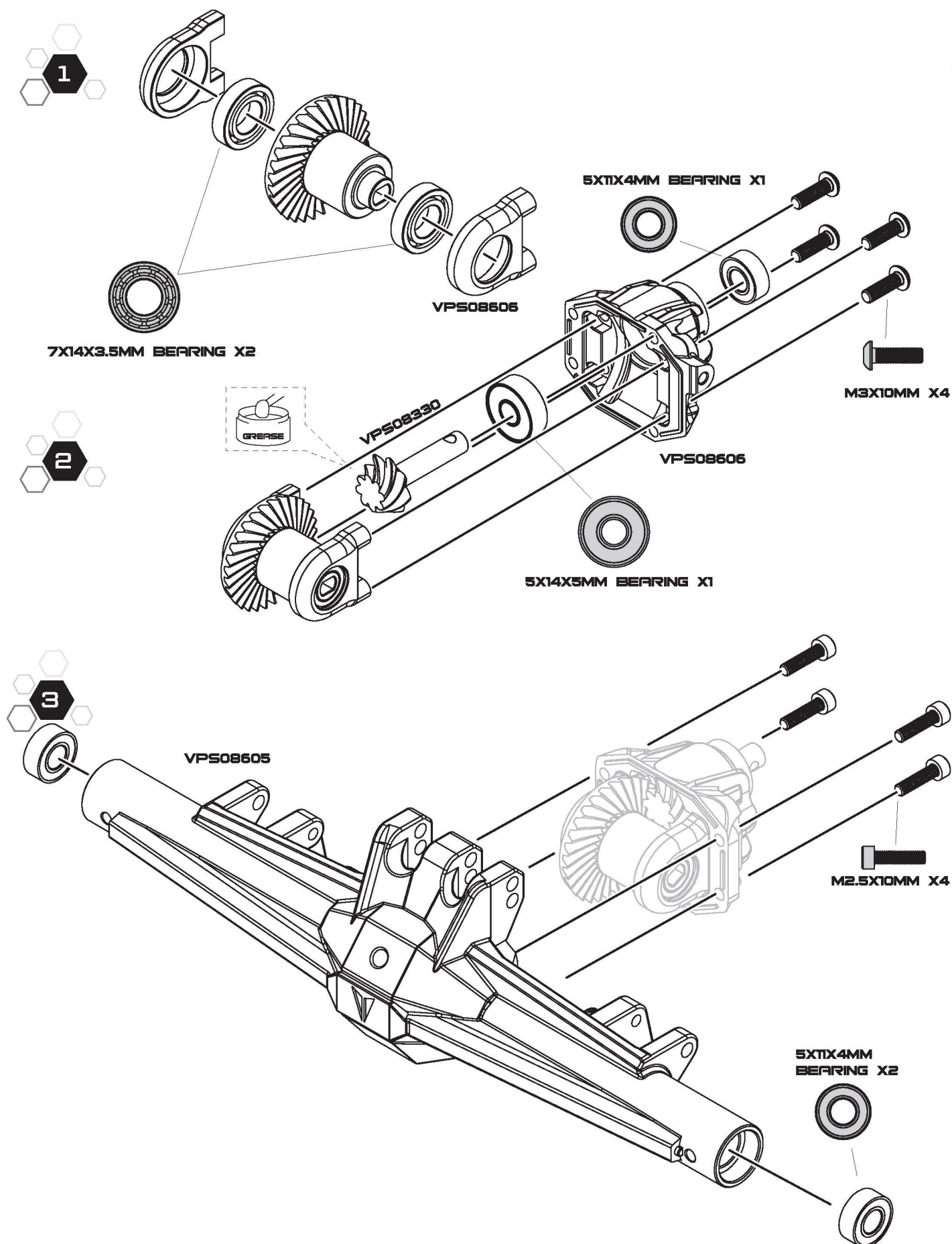
X1 DRAG LINK IRC00206 69MM



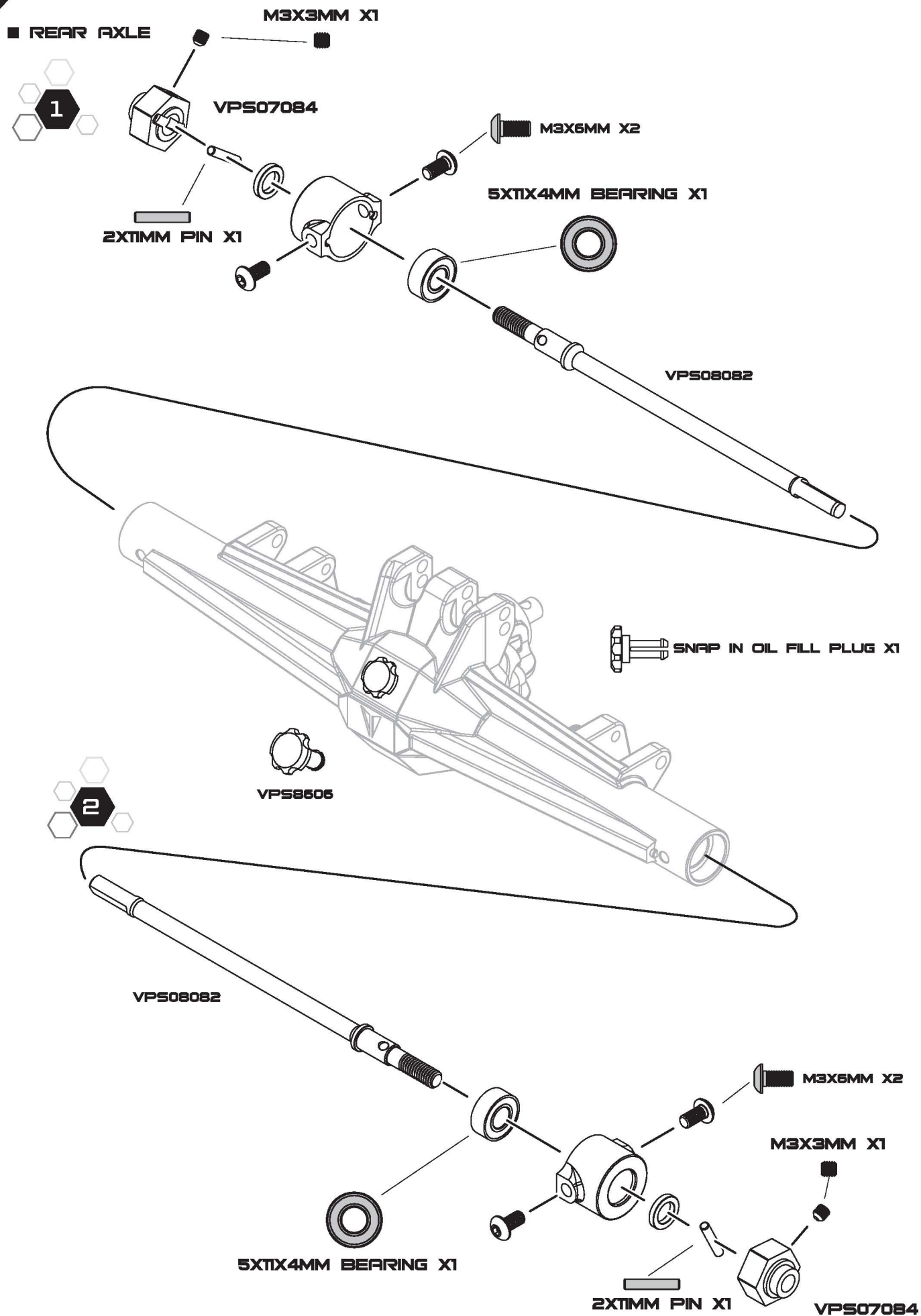
X1 TIE ROD IRC00206 126MM



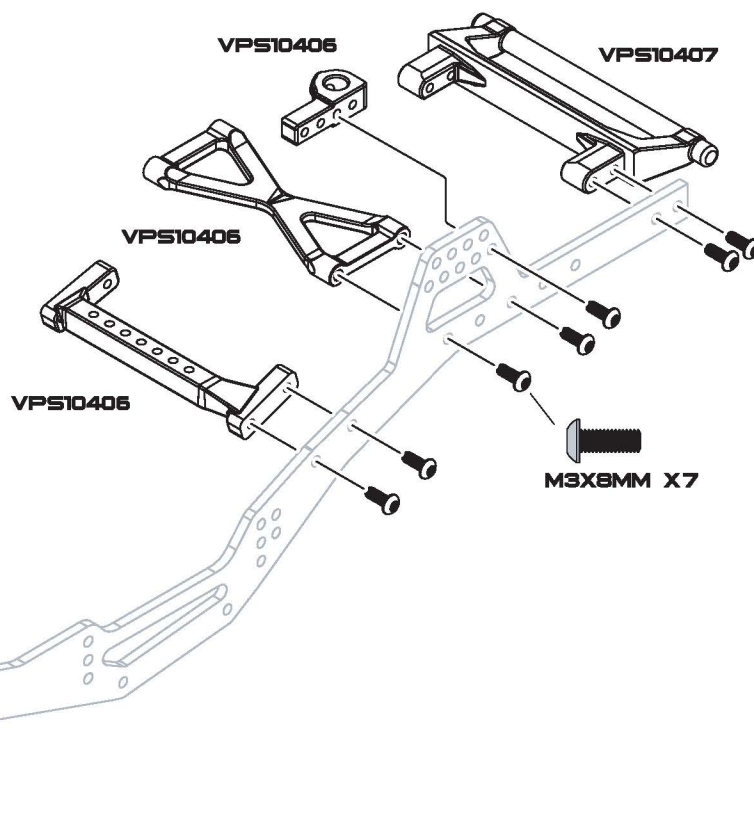
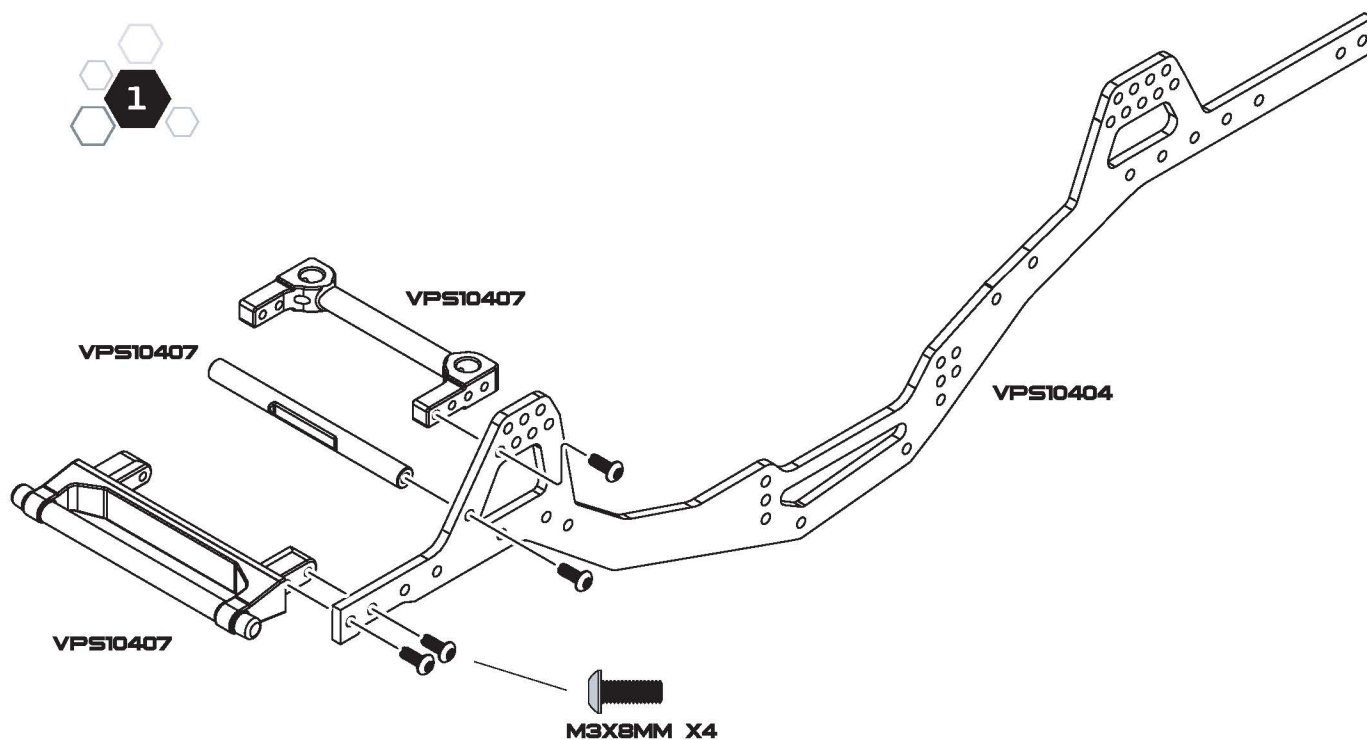
■ REAR AXLE



BAG B

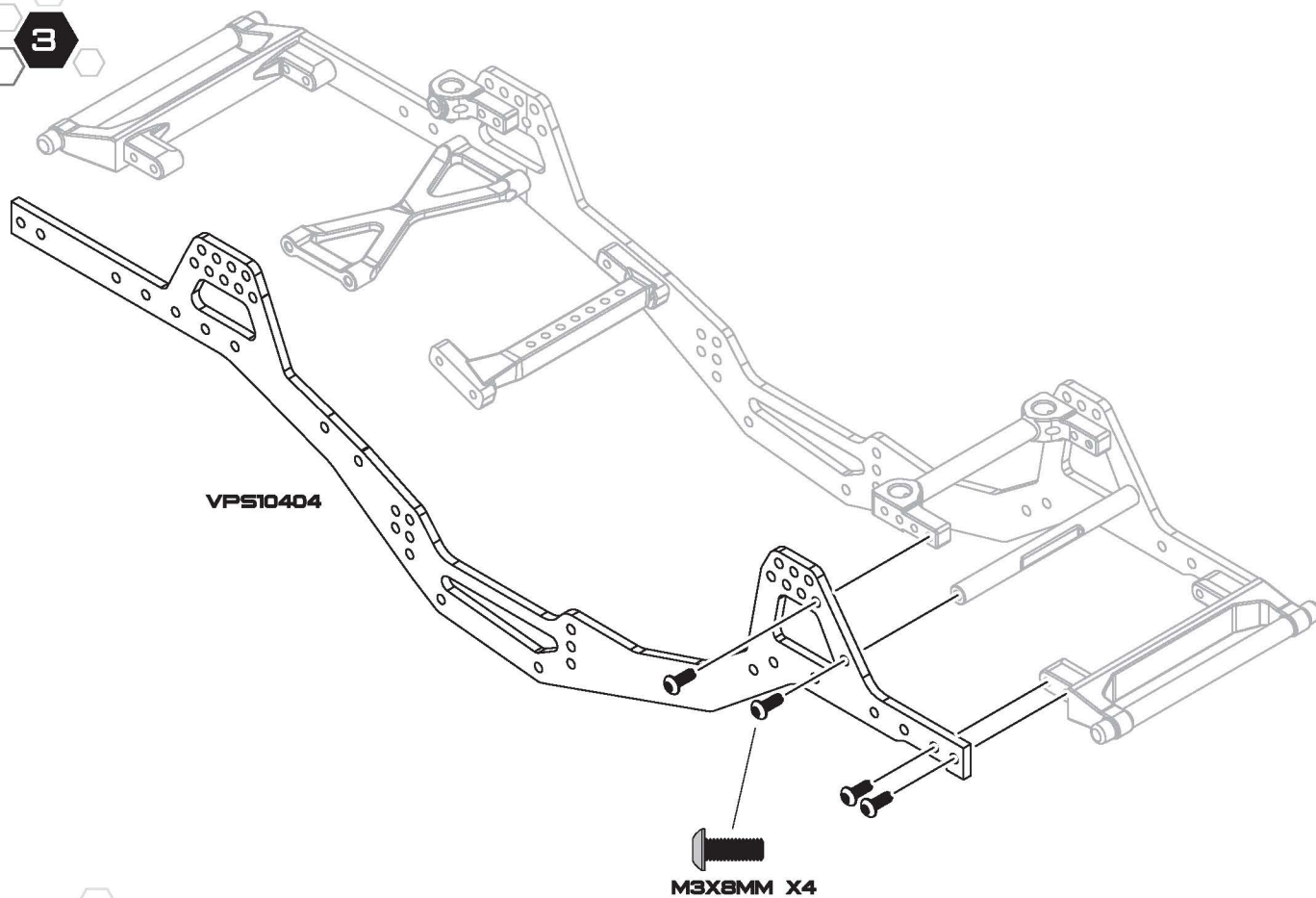


■ CHASSIS

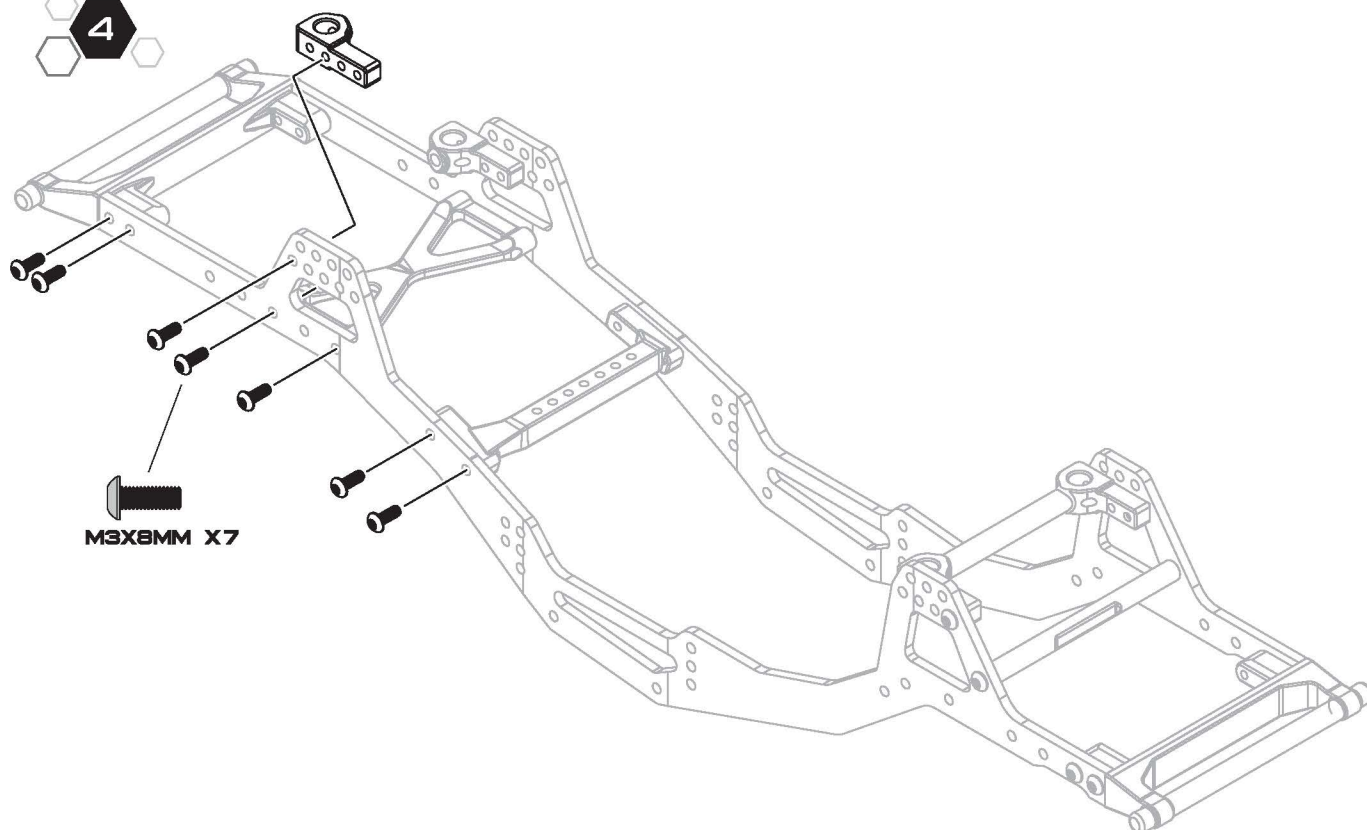


■ CHASSIS

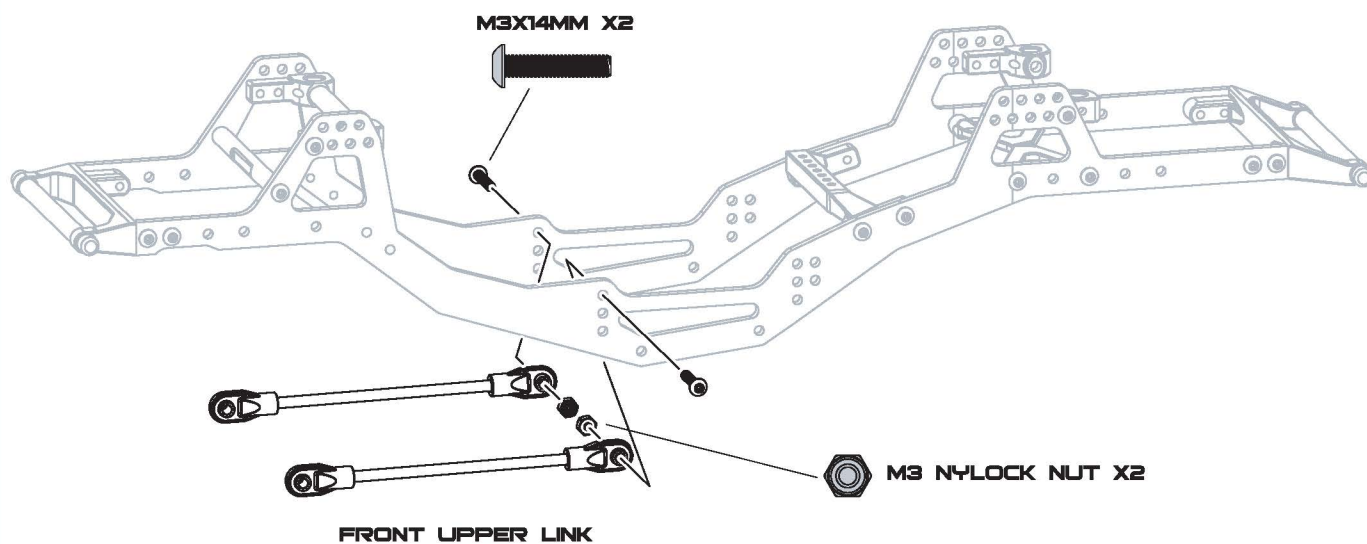
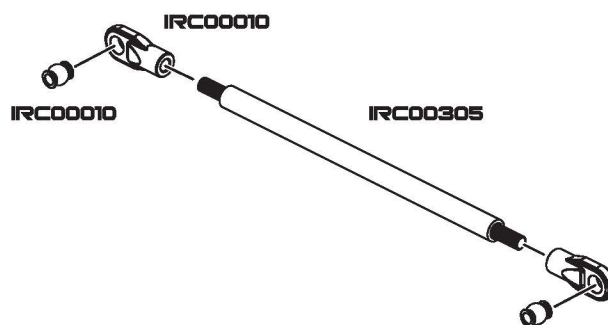
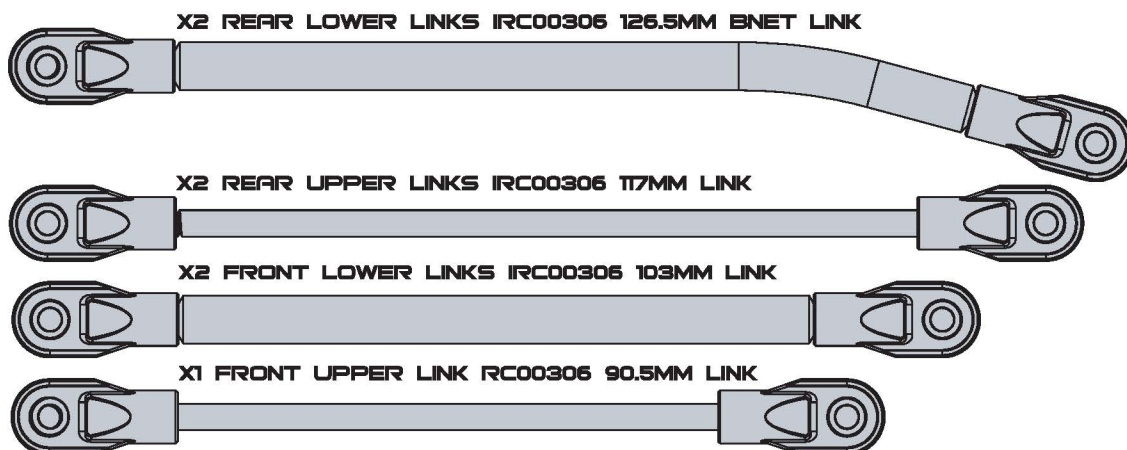
3



4

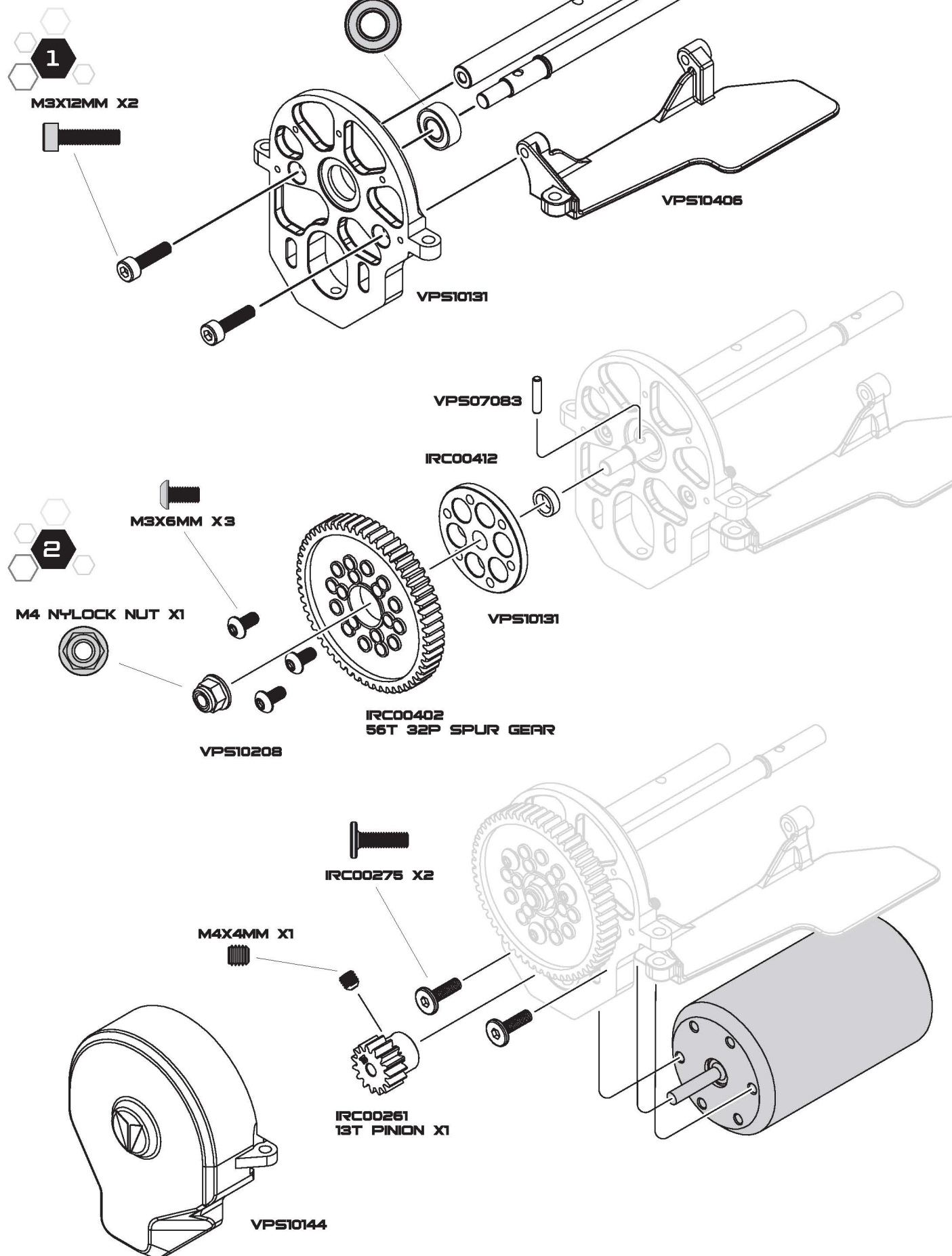


■ LINKS TO CHASSIS





TRANSMISSION



■ TRANSMISSION



M3X16MM X1

VP510406

M3X12MM X1

VP510406

M3X12MM X2

VP510144



M2X6MM X4

VP510144

2X8MM PIN X1

5XTIX4MM BEARING X3

M3X12MM X1

VP510143

BOTTOM SHAFT LENGTH=37.5MM
*NOTE DIRECTION

2X10MM PIN X1

23T GEAR LENGTH=11.3MM

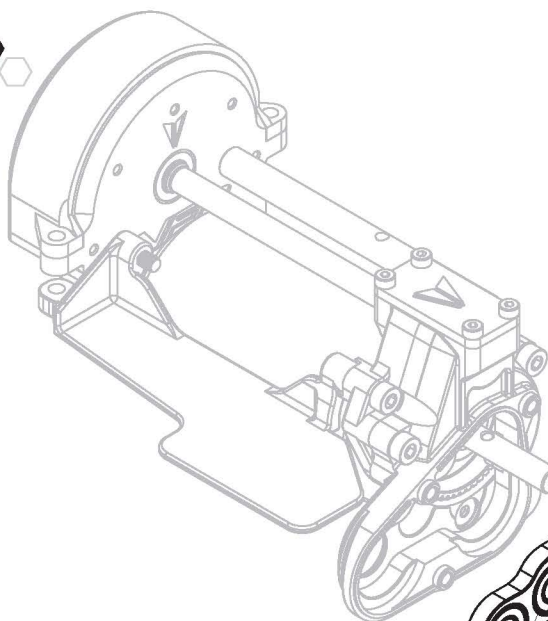
VP510147

VP510144

M3X12MM X1

TRANSMISSION

5



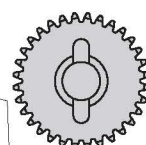
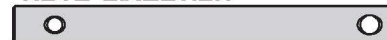
2X8MM PIN X1

VPS10131



VPS10147
23T GEAR
LENGTH=13.8MM

VPS10143
REAR OUTPUT SHAFT
LENGTH=50MM
*NOTE DIRECTION



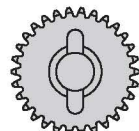
VPS10147
32T GEAR
REAR OUTPUT

VPS10131

VPS10131

5XTIX4MM BEARING X4

2X10MM PIN X2

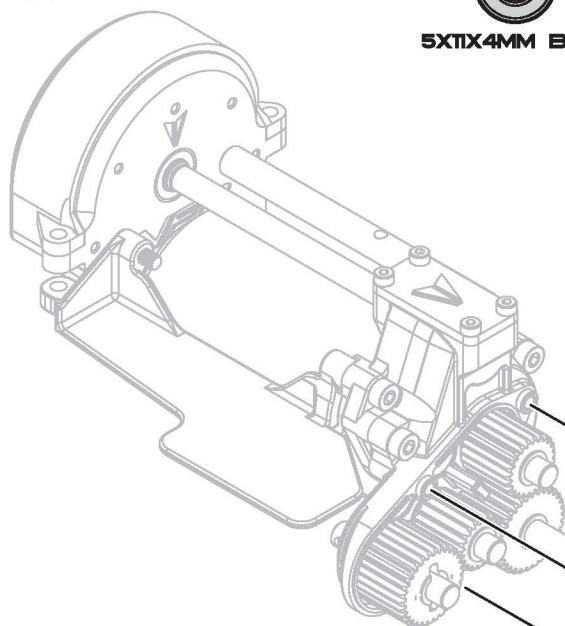


VPS10147
30T OVERDRIVE GEAR
FRONT OUTPUT



VPS10143
FRONT OUTPUT
LENGTH=29.5MM
*NOTE DIRECTION

6



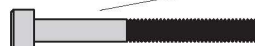
VPS10131

5XTIX4MM BEARING X5

M3X12MM X2



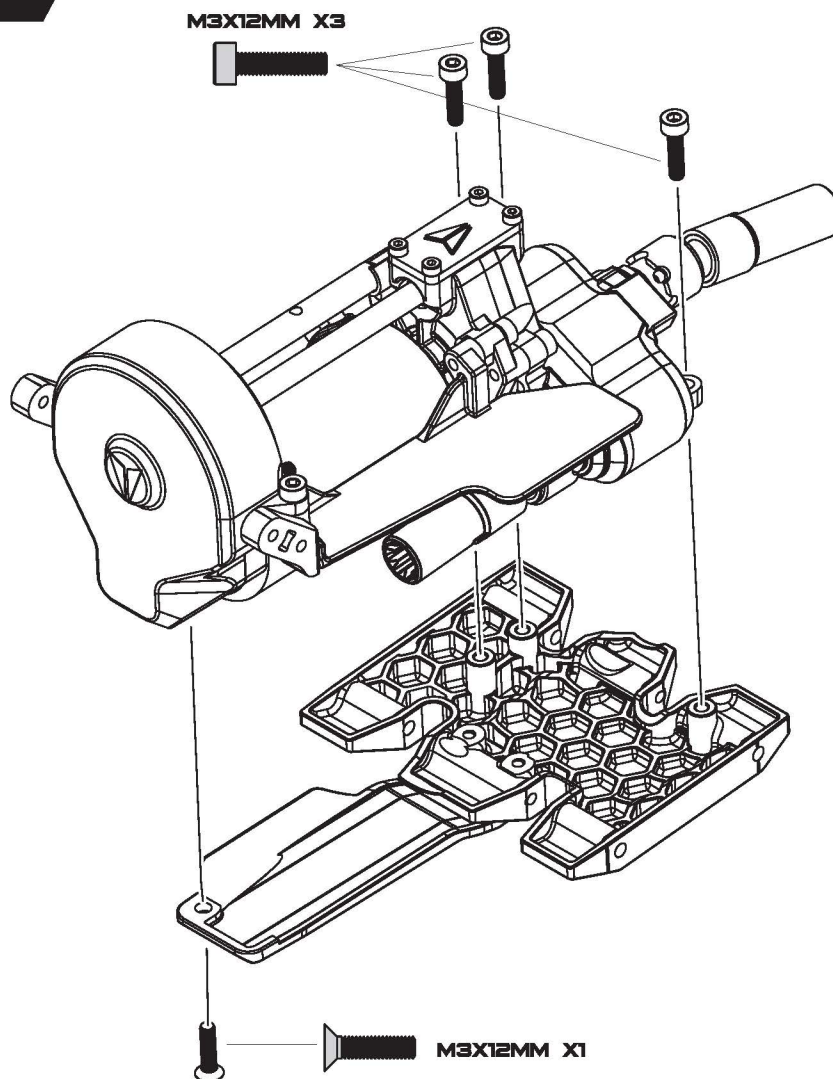
VPS10144



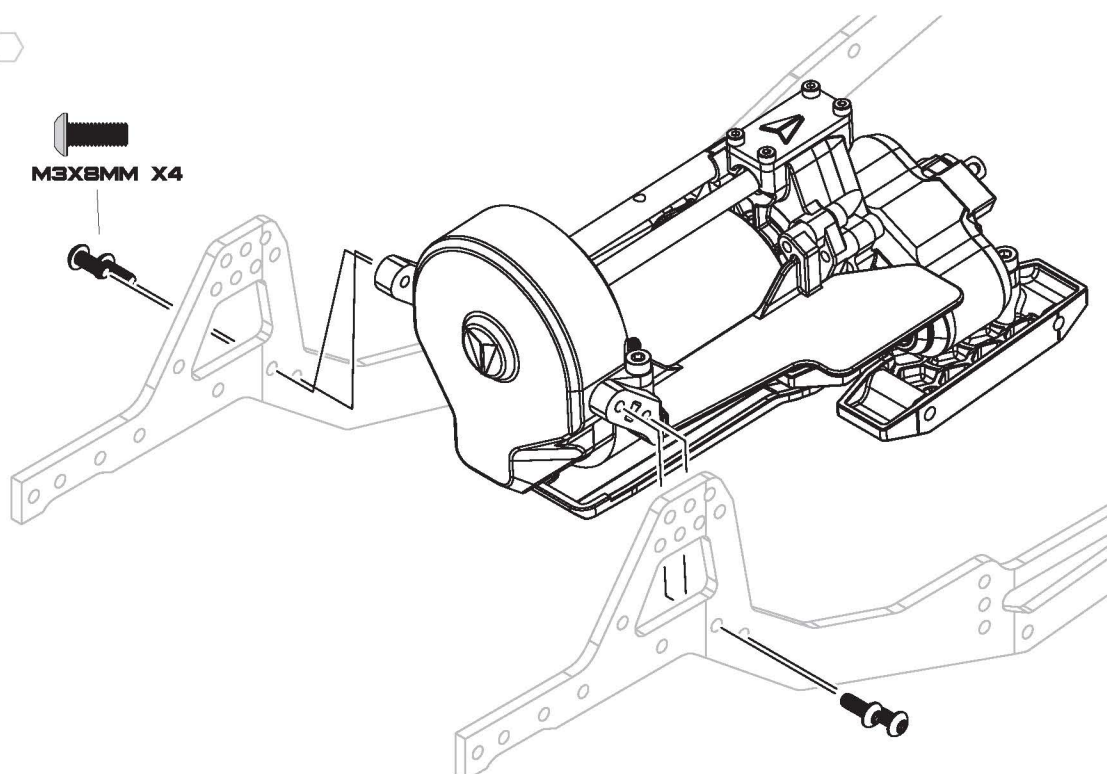
M3X30MM X1

■ TRANSMISSION

7

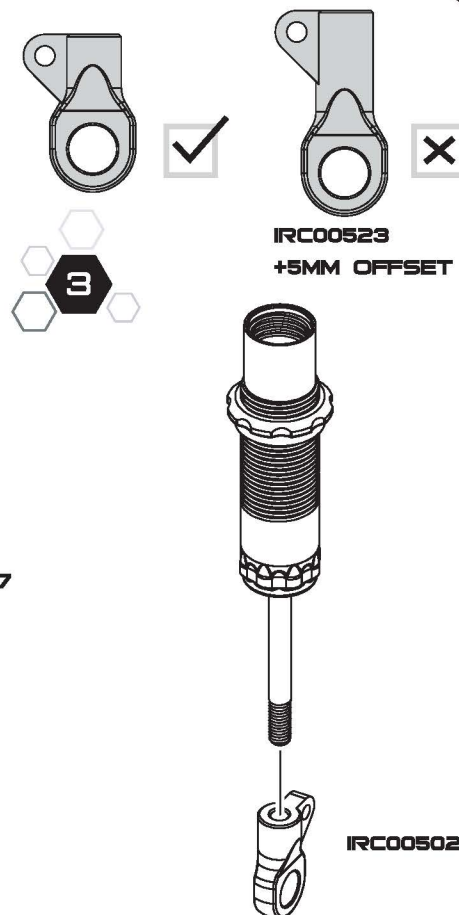
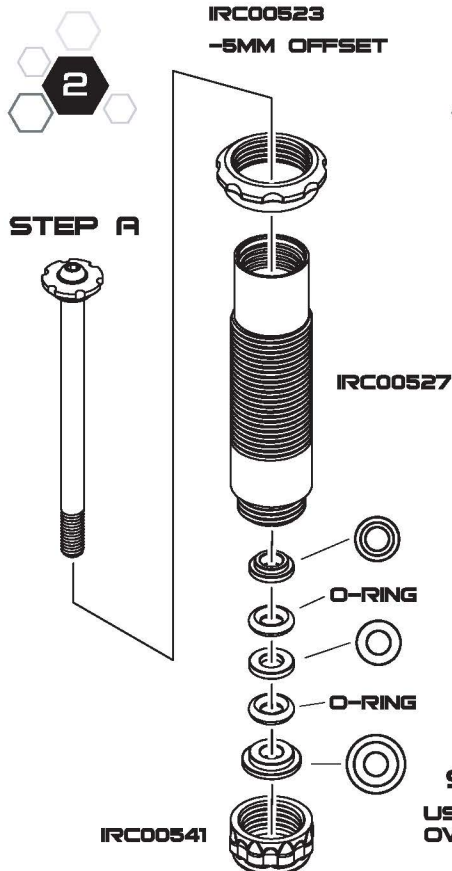
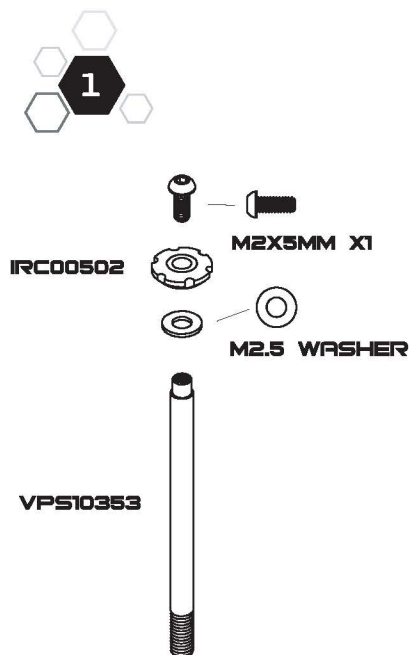


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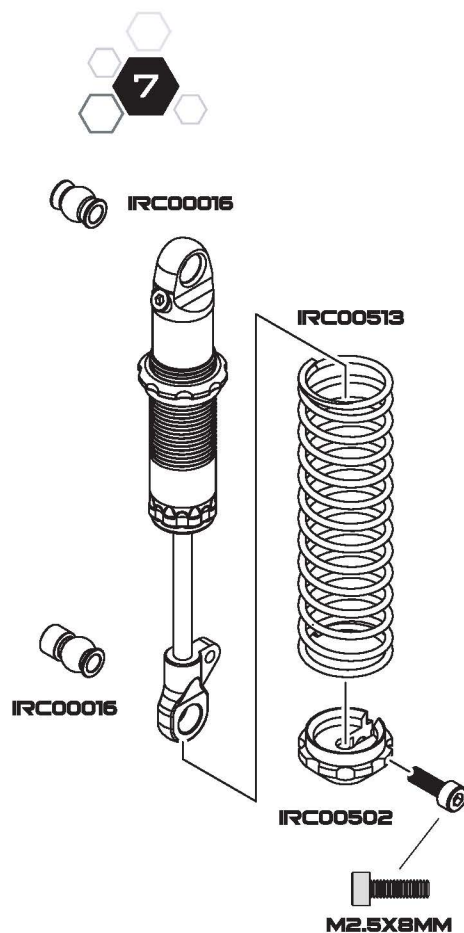
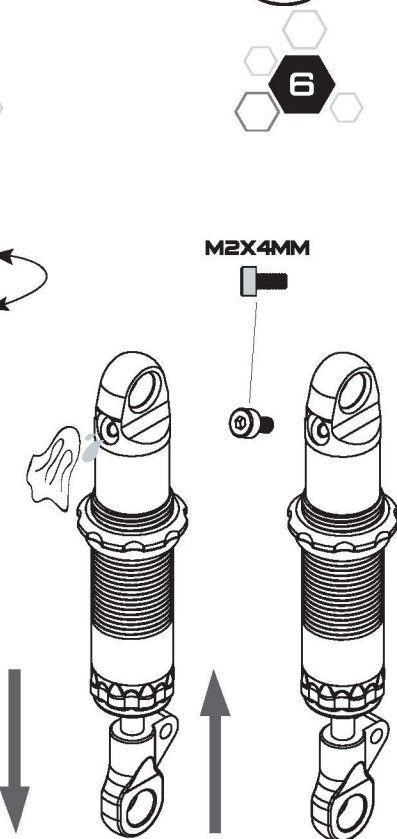
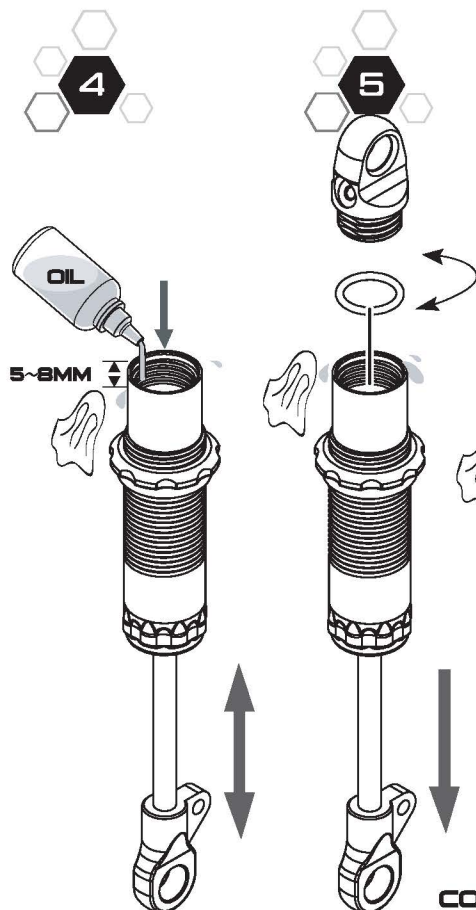
BAG E

■ S8E SHOCK ASSEMBLY OPEN BAG E



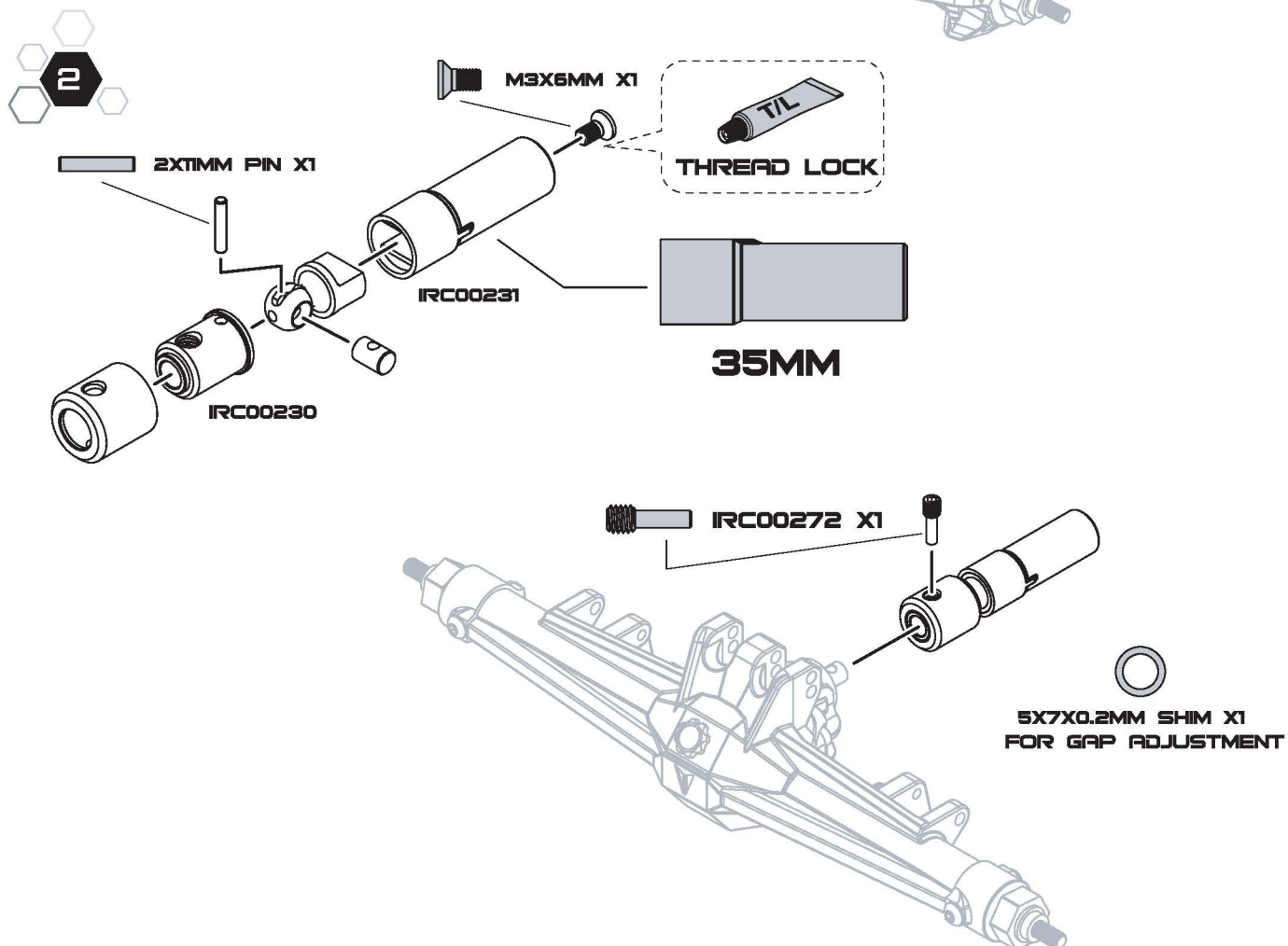
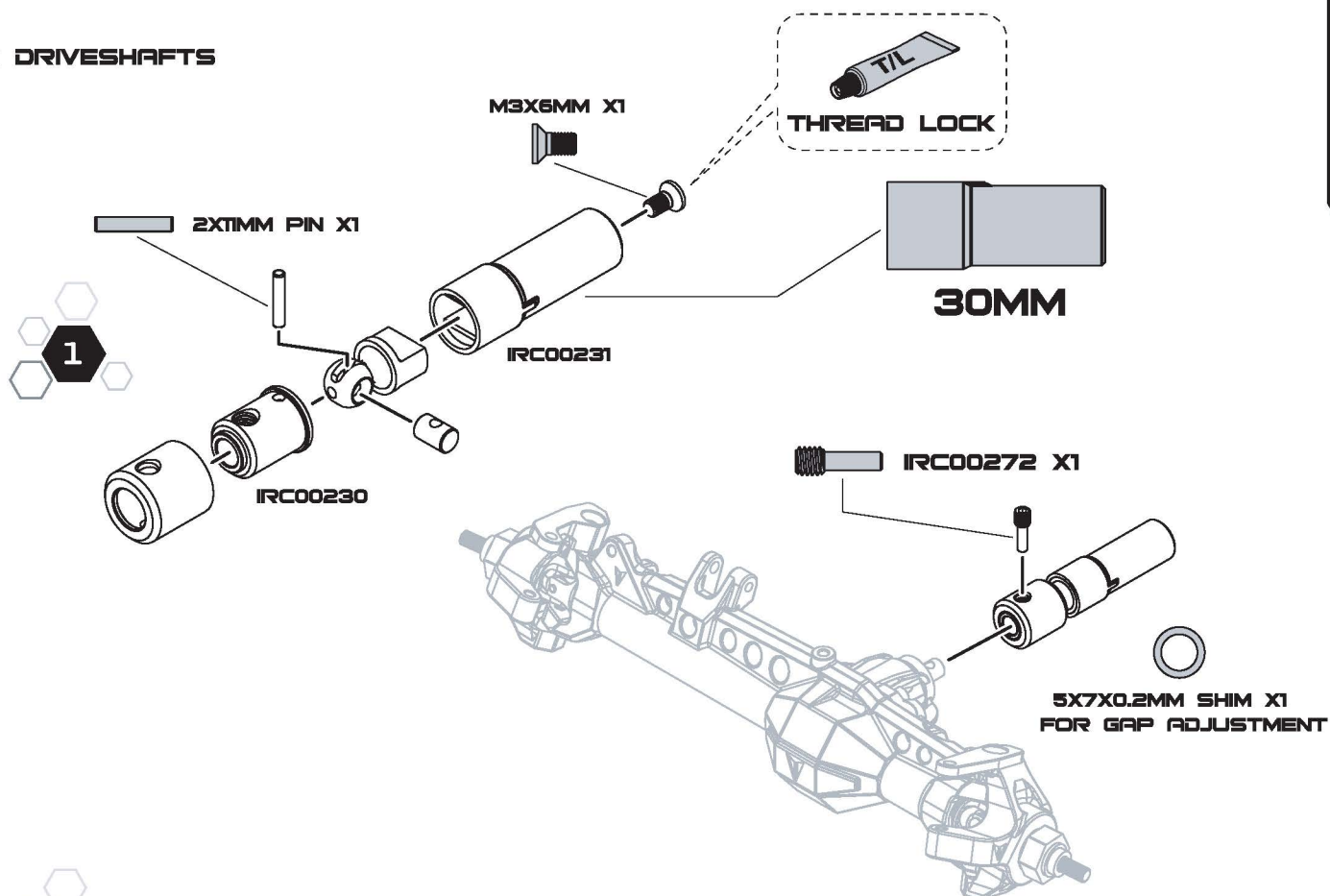
STEP B

USE CARE WHEN INSTALLING O-RINGS
OVER SHOCK SHAFT THREADS



COMPRESS SHOCK
COMPLETELY THEN INSERT
BLEED SCREW

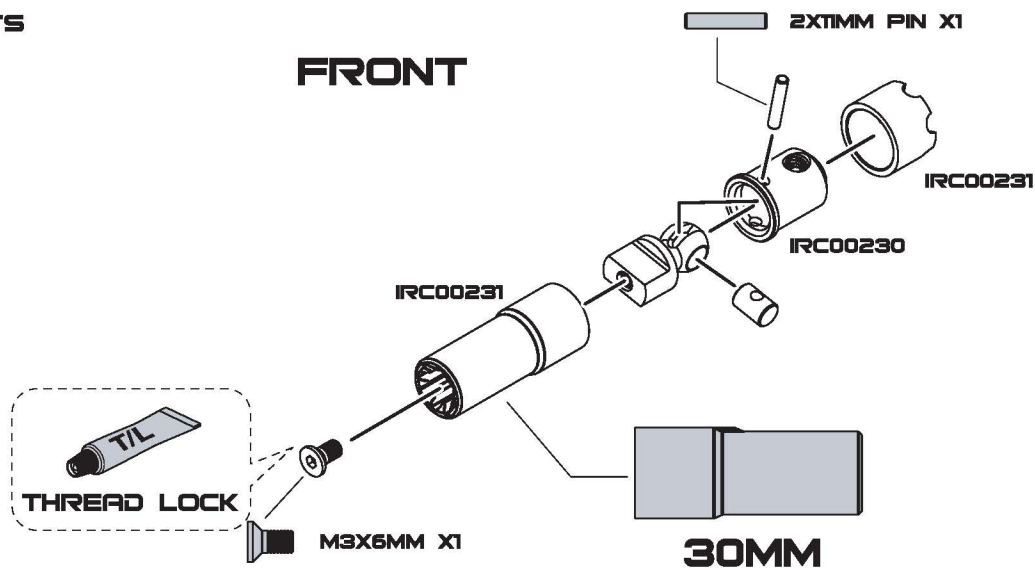
■ DRIVESHAFTS



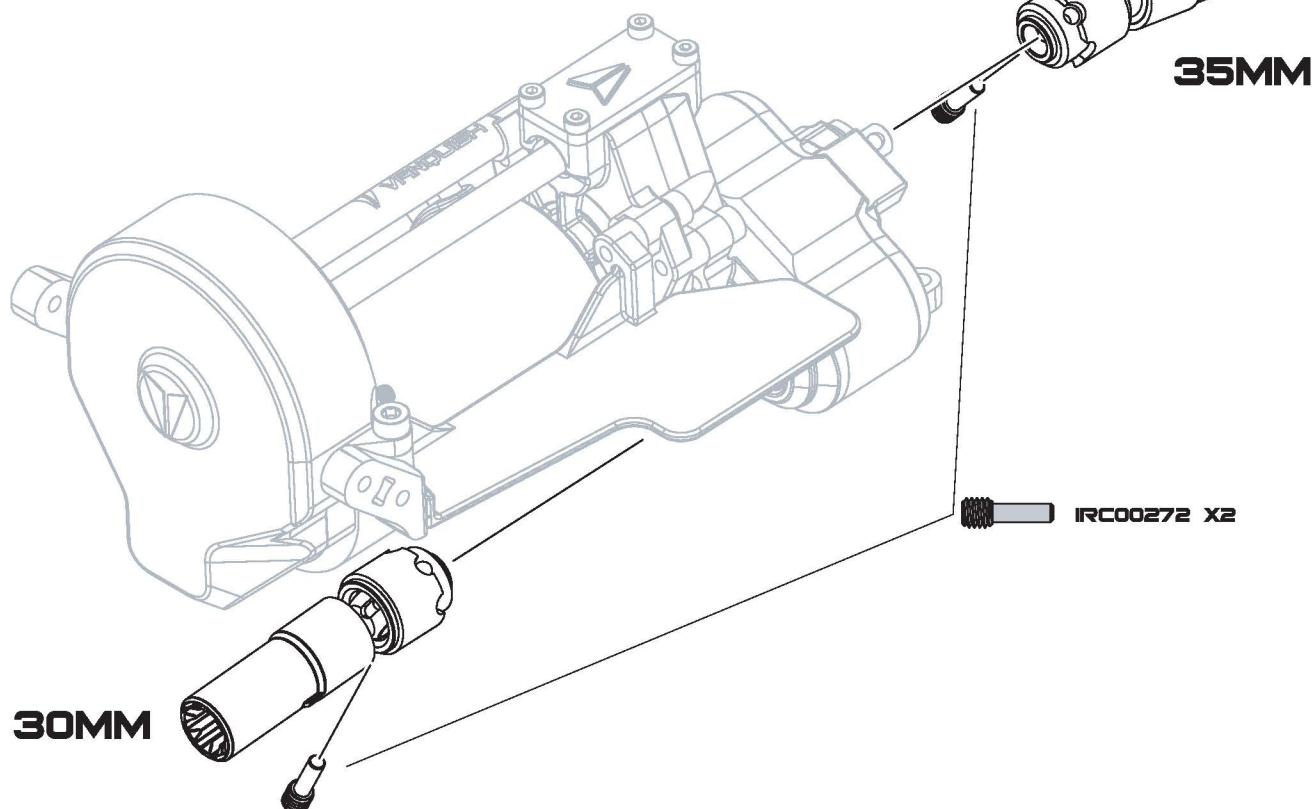
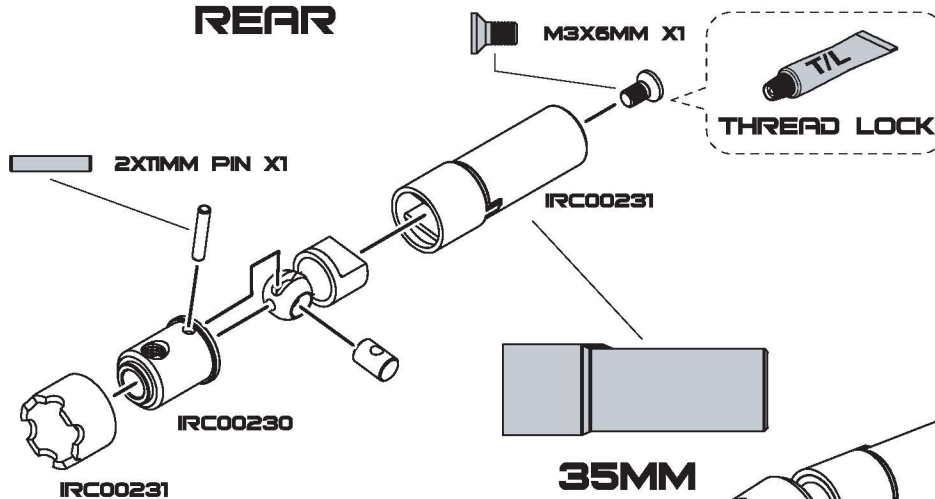
■ DRIVESHAFTS



FRONT



REAR

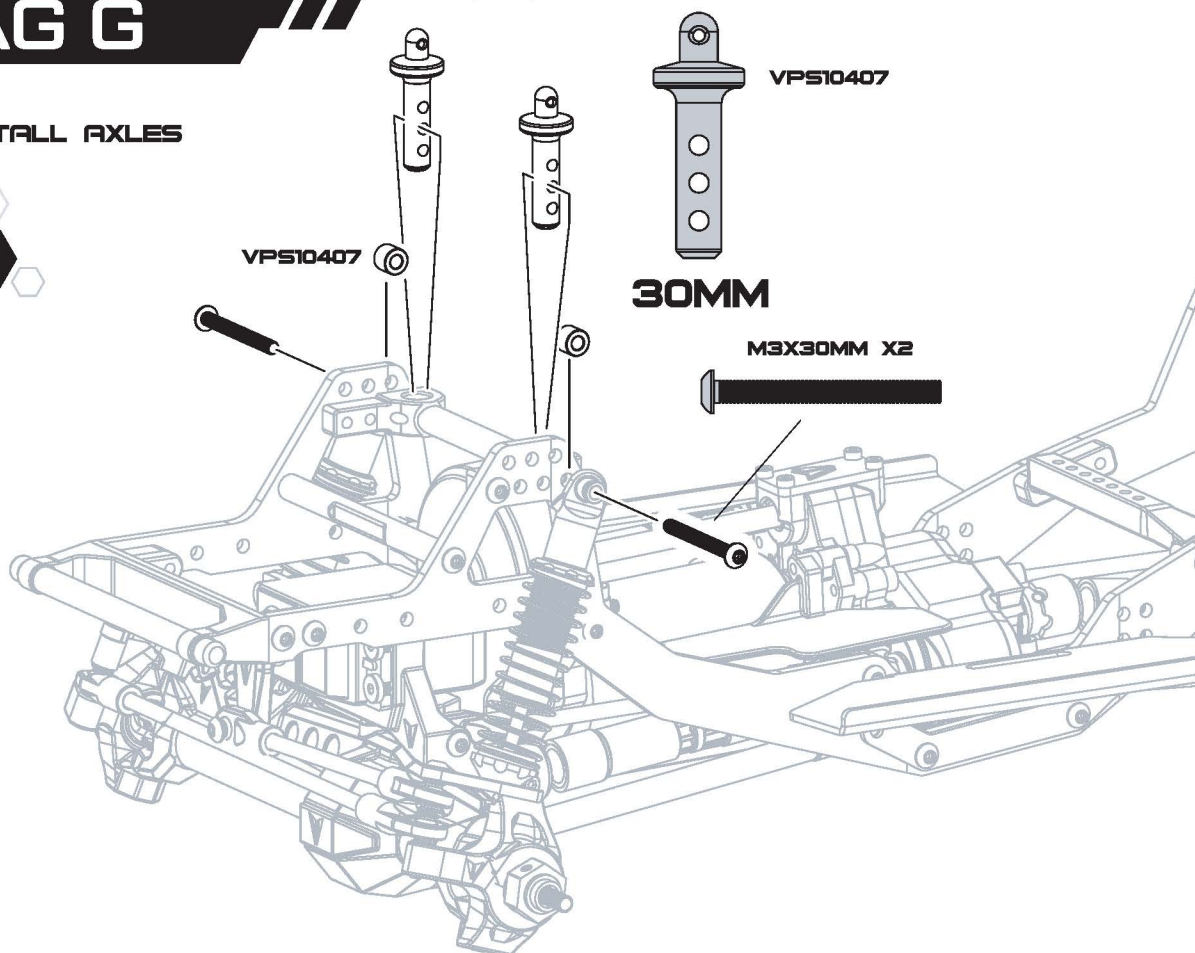


■ INSTALL AXLE

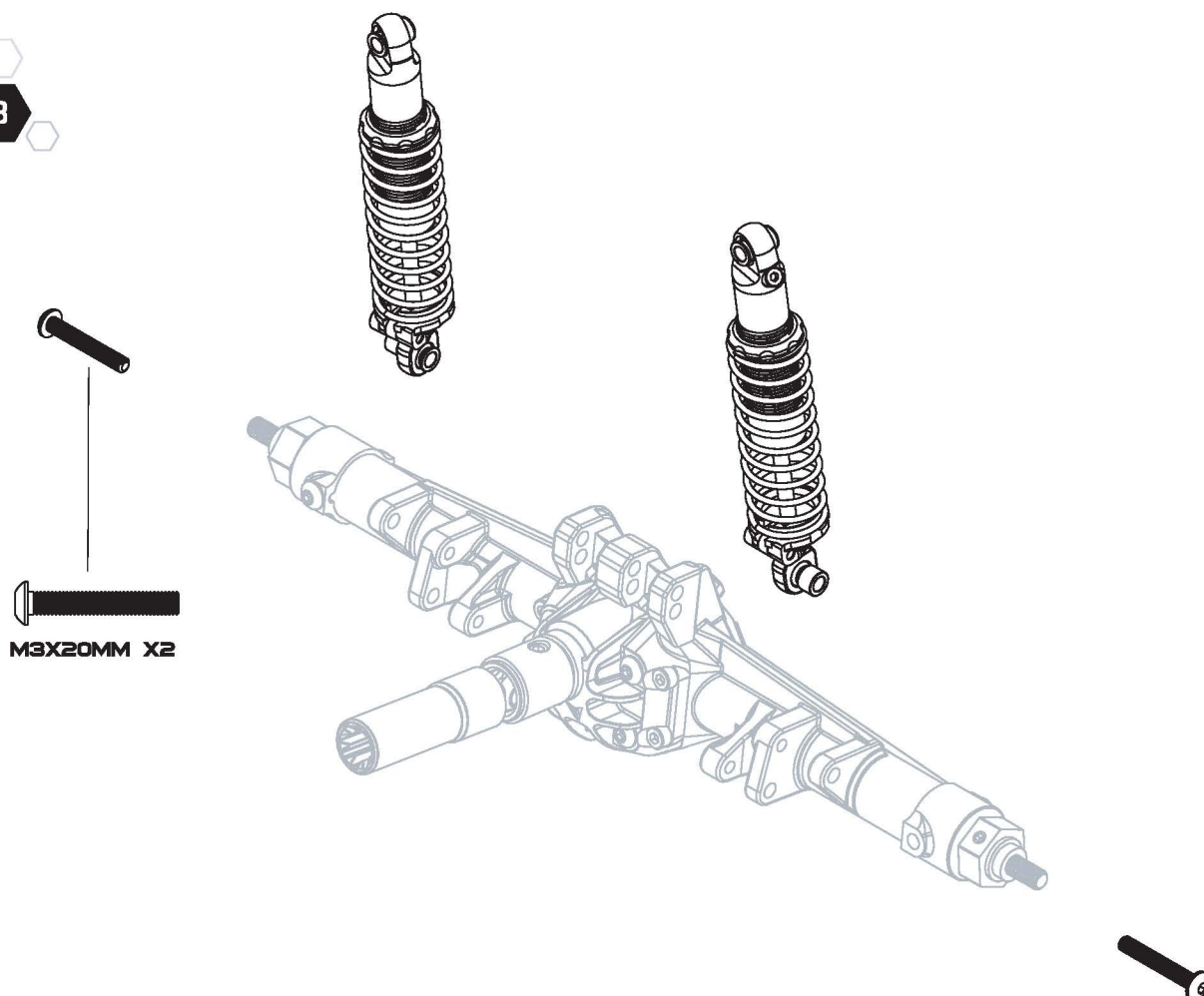


■ INSTALL AXLES

7

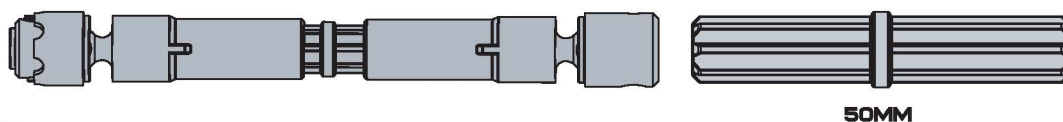
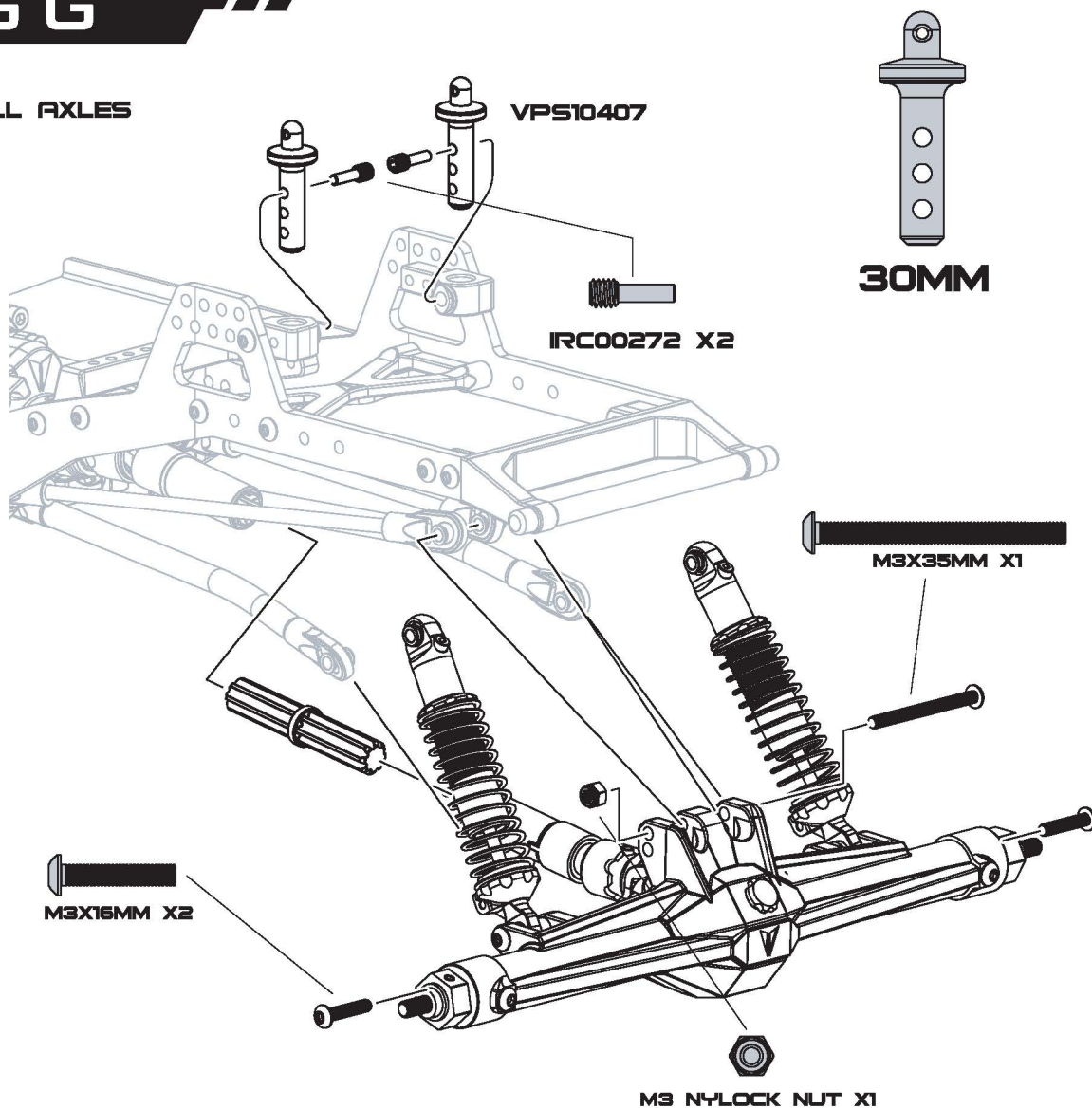


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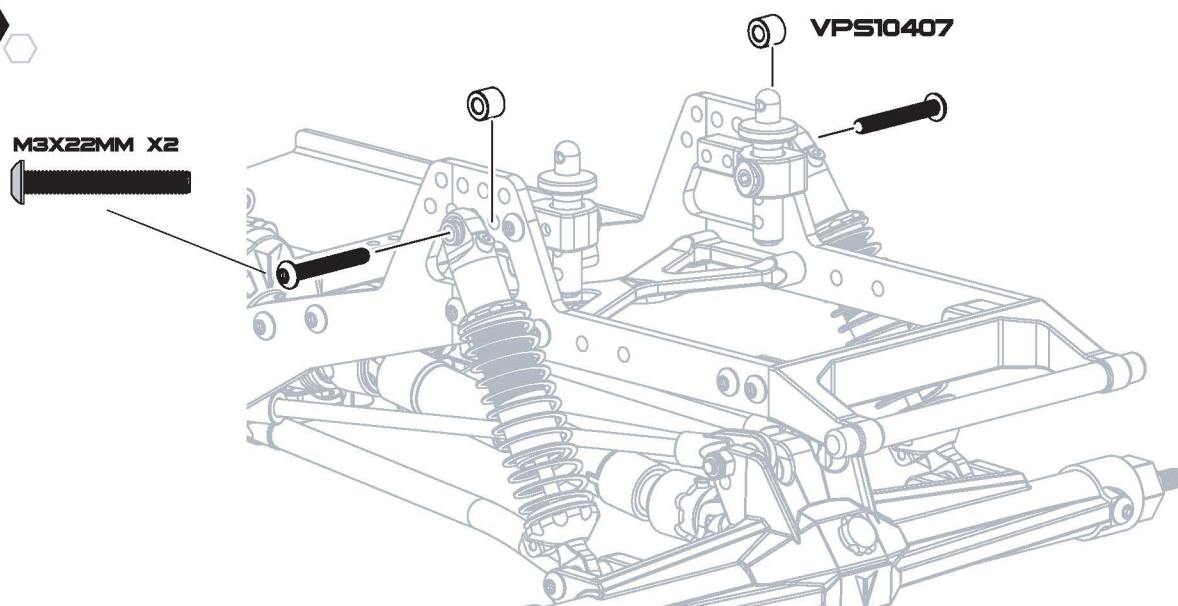


■ INSTALL AXLES

9

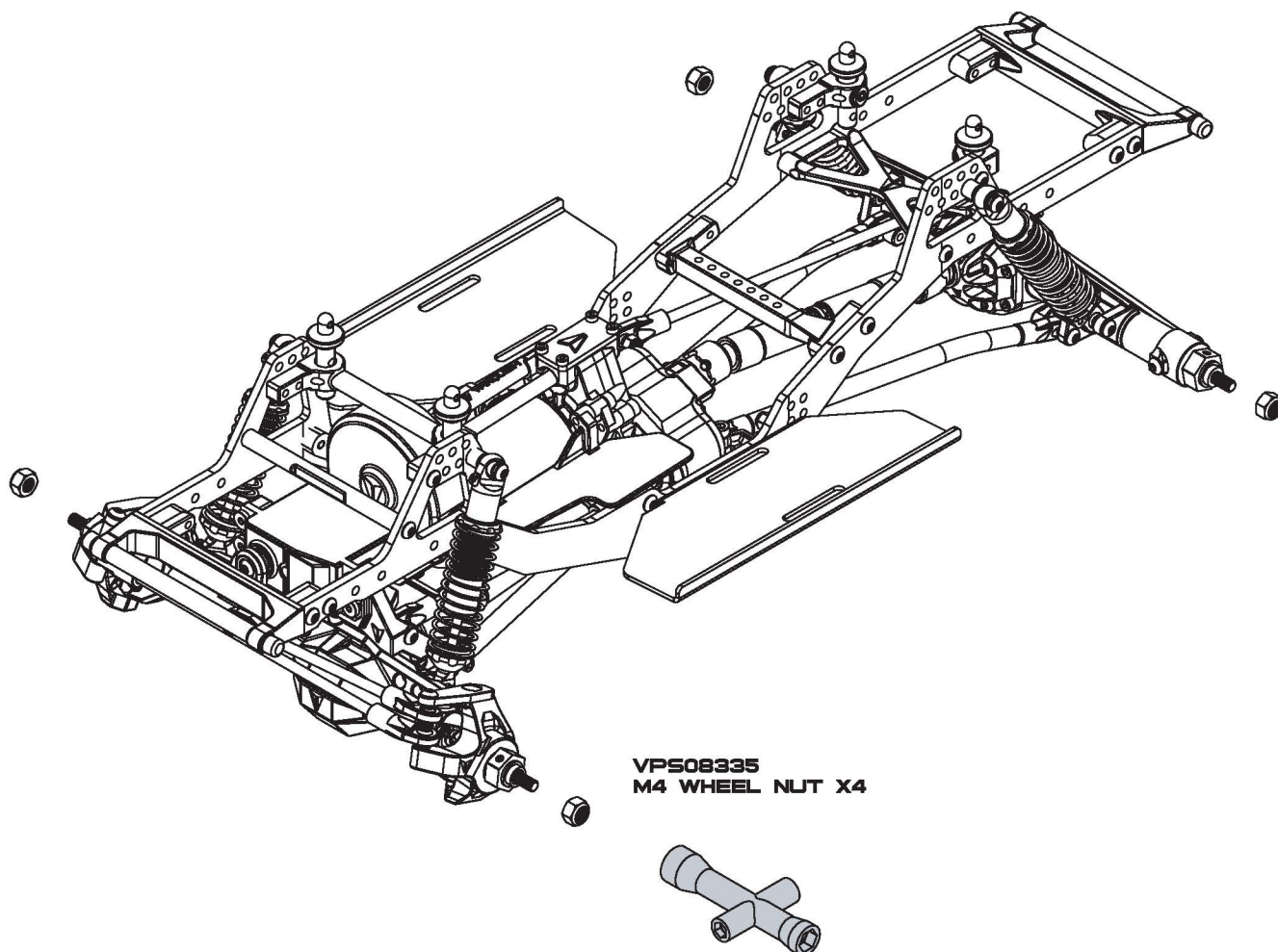


10



■ FINAL ASSEMBLY

11



PART NUMBER

■ SPARE PARTS

IRC00010	ROD ENDS WITH PIVOT BALLS (12)
IRC00012	BENT ROD ENDS WITH PIVOT BALLS (4)
IRC00140	M4 WHEEL NUT
IRC00181	INCISION VDI UNIVERSALS
IRC00206	F10 VRD SOA DRAG LINK AND TIE ROD SET
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)
IRC00304	126MM TIE ROD 4MM STRAIGHT
IRC00305	VRD COMPLETE LINK SET
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
VPS10113	VS4-10 BODY POST SET
VPS10144	VS4-10 VFD TRANSMISSION HOUSING
VPS10147	STANDARD VFD GEARS
VPS10207	E-5 CLIP
VPS10208	VFD SLIPPER SET
VPS10353	S8E SHOCK SHAFT WITH BOLT ON PISTON
VPS10403	VRD S23 STAMPED SLIDERS
VPS10404	VRD S23 ALUMINUM CHASSIS RAILS
VPS10406	VRD CHASSIS COMPONENTS MOLD
VPS10407	VRD CHASSIS END CAPS AND BUMPER MOLD

■ OPTION PARTS

VPS05253	1.9 BRASS 0.8" WHEEL CLAMP RINGS (PAIR)
VPS10413	1.9 SINTERED 0.8" WHEEL CLAMP RING
VPS07082	12MM HEX BLACK ANODIZED
VPS07080	12MM HEX CLEAR ANODIZED
IRC00260	12T 32P PINION
IRC00262	14T 32P PINION
IRC00263	15T 32P PINION
IRC00264	16T 32P PINION
IRC00265	17T 32P PINION
VPS08330	30T/8T HYPOID GEAR SET
IRC00404	56T 32P SPUR GEAR
VPS08070	6 HOLE SPOOL / LOCKER
VPS10414	ALUMINUM SHOCK SPACER - 5MM
VPS08331	AR44 AXLE UNDERDRIVE GEAR SET - 33T/8T
IRC00292	BRASS 12MM HEX
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
VPS10103	FALKEN WILDPEAK M/T 1.9 TIRES
IRC00220	INCISION DRIVESHAFT SET
IRC00270	INCISION MOTOR PLATE CAPHEAD WASHER
IRC00220	INCISION STEEL DRIVESHAFT SET
IRC00530	KMC KM237 RIOT BEADLOCK
VPS10413	PM HEAVY 0.8 CLAMP RINGS
VPS08354	PORTAL STANDARD GEAR SET (30T/18T)
IRC00014	PRO BENT ROD ENDS WITH PIVOT BALLS (4)
IRC00013	PRO ROD ENDS WITH PIVOT BALLS (12)
IRC00526	S8E 80MM SHOCK BODY
IRC00528	S8E 80MM SHOCK BODY HARD ANODIZED
IRC00500	S8E 80MM SHOCK SET
IRC00504	S8E 80MM SHOCK SHAFT
IRC00512	S8E 80MM SPRING SET
IRC00527	S8E 90MM SHOCK BODY
IRC00529	S8E 90MM SHOCK BODY HARD ANODIZED
IRC00501	S8E 90MM SHOCK SET
IRC00513	S8E 90MM SPRING SET
IRC00553	S8E MACHINED PISTON 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
IRC00519	S8E MACHINED Spring COLLAR SET Blue
IRC00518	S8E MACHINED Spring COLLAR SET Orange
IRC00523	SHOCK TUNING ROD ENDS
VPS10411	STANCE BODY PRE PAINTED GREEN
VPS10410	STANCE BODY PRE PAINTED SILVER
VPS10409	STANCE CLEAR BODY
VPS02412	STEERING CLAMPING 25T SERVO HORN - 20MM
VPS10402	STUBBY CONVERSION KIT
VPS20004	VE1 60AMP ESC
VPS10146	VFD 21% OVERDRIVE TRANSFER CASE GEAR SET
IRC00410	VFD 52T 32P SLIPPER SPUR GEAR
VPS10148	VFD ALUMINUM MOTORPLATE BLACK
VPS01360	VFD HURTZ DIG BLACK
VPS01361	VFD HURTZ DIG CLEAR
VPS10149	VFD LIGHT WEIGHT ALUMINUM MOTORPLATE
VPS10153	VFD LIGHTWEIGHT FRONT GEAR SET
VPS10145	VFD LIGHTWEIGHT MACHINED TRANSFER CASE GEAR SET
VPS10145	VFD LIGHTWEIGHT TRANSFER CASE GEAR SET
VPS10141	VFD MACHINED GEAR SET
VPS10209	VFD SLIPPER LOCKOUT SET
VPS10208	VFD SLIPPER SET
VPS10200	VFD TWIN TRANSMISSION KIT
VPS20005	VM1 35T MOTOR
VPS20002	VR1 4CH RECEIVER
VPS10401	VRD CMS KIT
VPS10405	VRD S23 CARBON CHASSIS RAILS
VPS10408	VRD STUBBY MOLDED COMPONENTS
VPS20003	VS1 SERVO
VPS10151	VS4-10 VFD ALUMINUM TRANS POST
VPS20001	VT1 4CH TRANSMITTER
VPS10306	VTS STANCE 4.75" DUAL STAGE FOAM
VPS10102	VXT2 1.9 TIRES RED COMPOUND
VPS10105	YOKOHAMA GEOLANDAR M/T 1.9 TIRES

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

Rear Ratio without spur/pinion

19.66:1

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

Rear Ratio without spur/pinion

13.42:1

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

NOTE:

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VPRD

DESIGNED IN CALIFORNIA 

Vanquish Products • 5710 Roseville Rd Sacramento CA 95842 • Parts Manufactured in Taiwan

www.vanquishproducts.com