



H10 optic **KIT**

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.

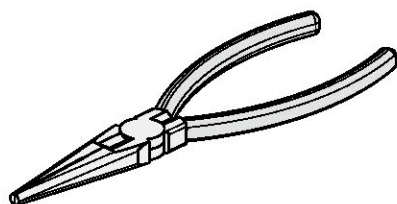
BATTERY SAFETY

- 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

Section	Contents	Page
BAG A	Front Axle Assembly	03
BAG B	Rear Axle Assembly	07
BAG C	Transmission Assembly	09
BAG D	Shock Assembly	14
BAG E	Driveshaft Assembly	15
BAG F	Links to Chassis Assembly	17
BAG G	Cage Main Assembly	21
SPARE PARTS LIST		32
GEAR CHART		33

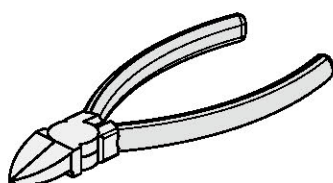
■ NECESSARY FOR MAINTENANCE



NEEDLE NOSE PLIERS
(NOT INCLUDED)



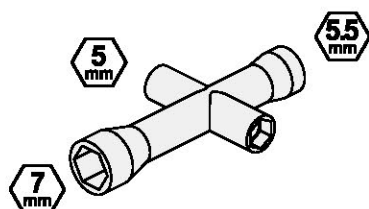
GREASE
(INCLUDED)



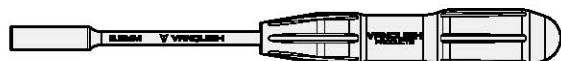
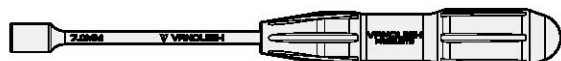
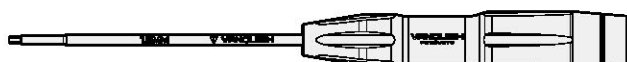
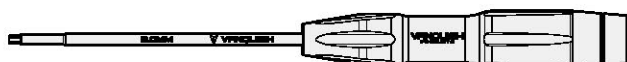
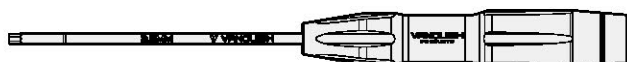
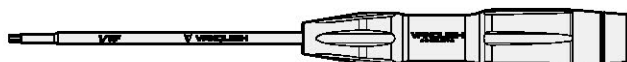
SIDE CUTTERS
(NOT INCLUDED)



THREAD LOCK
(INCLUDED)



CROSS WRENCH
(INCLUDED)



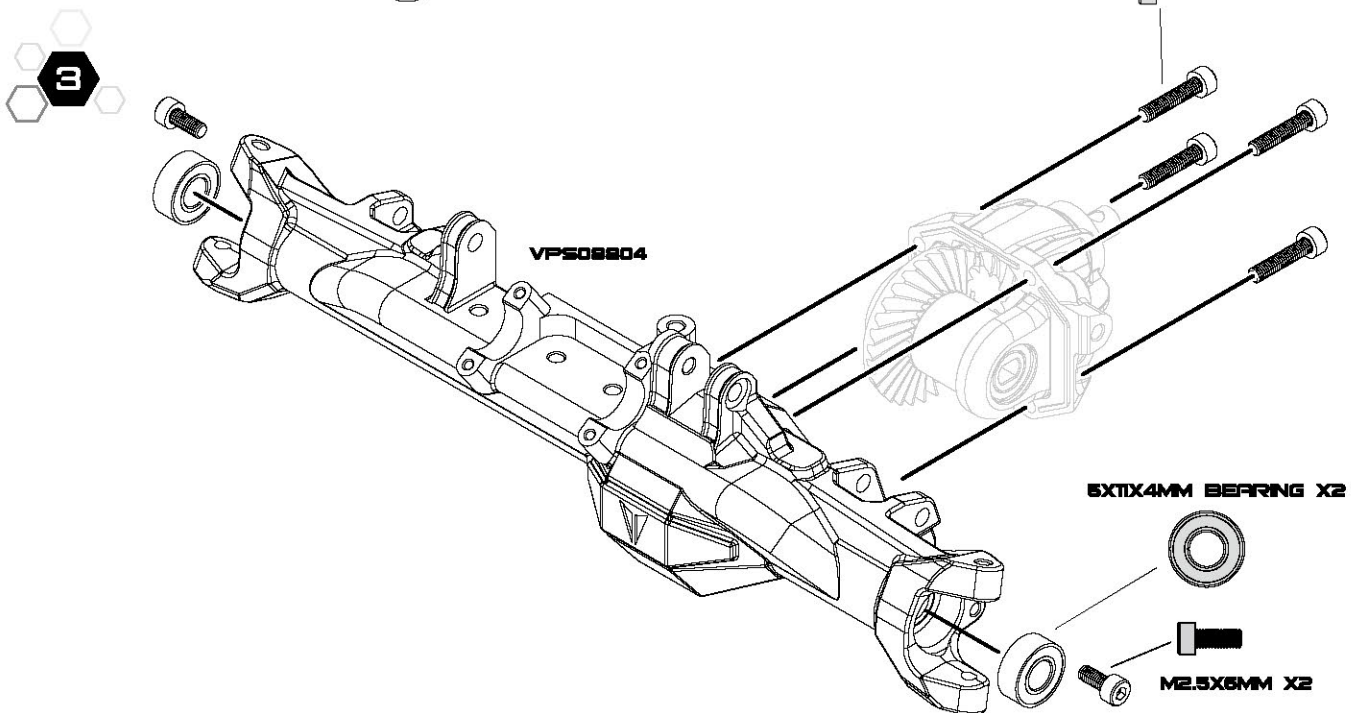
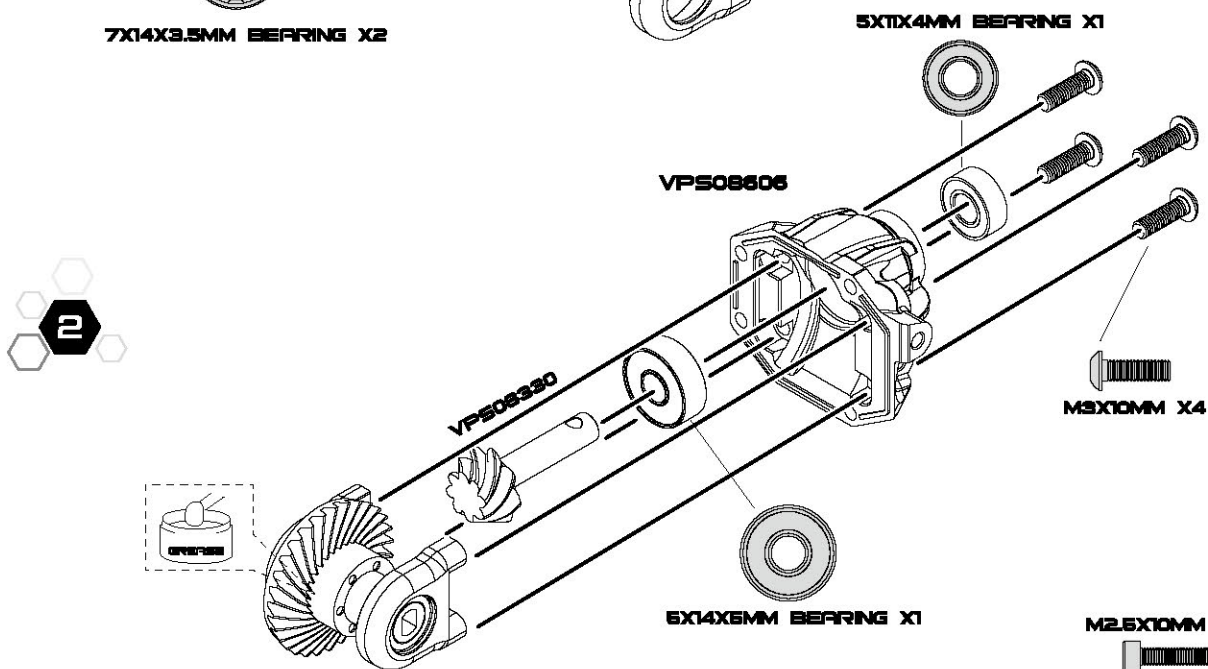
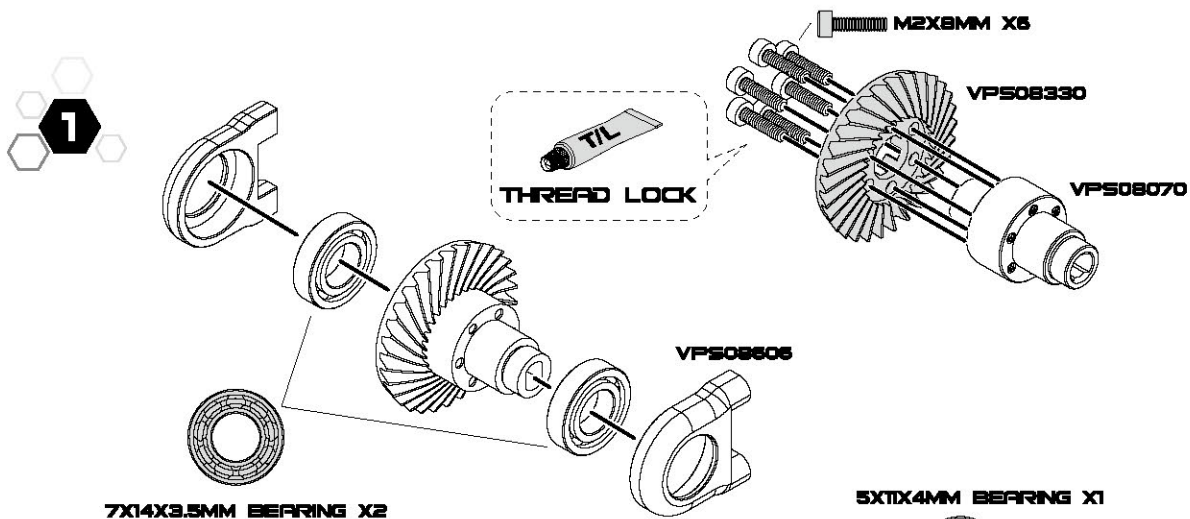
SUGGESTED TOOLS (NOT INCLUDED):

VP508410 STANDARD TOOL SET

VP508400 METRIC TOOL SET

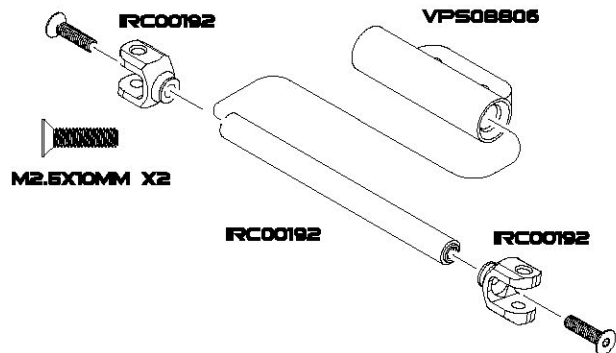
VP508440 METRIC NUT DRIVER TOOL SET

■ FRONT AXLE



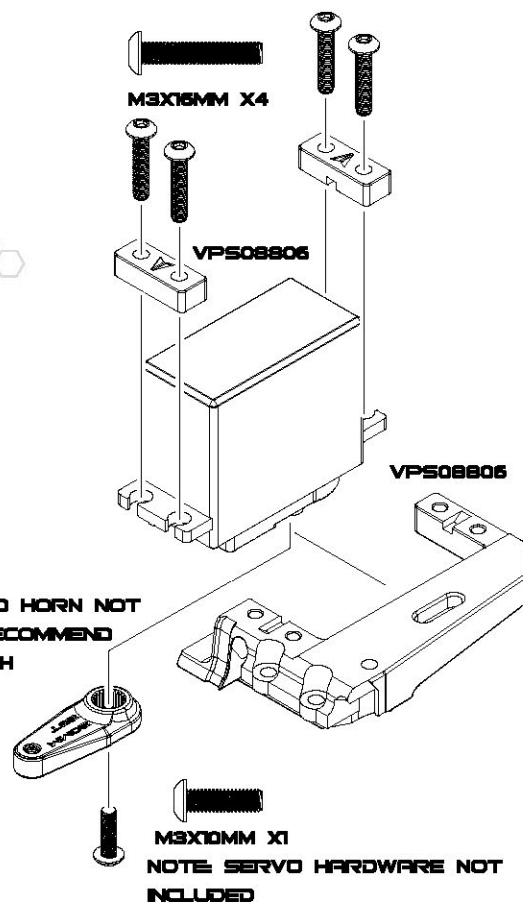
FRONT AXLE

4

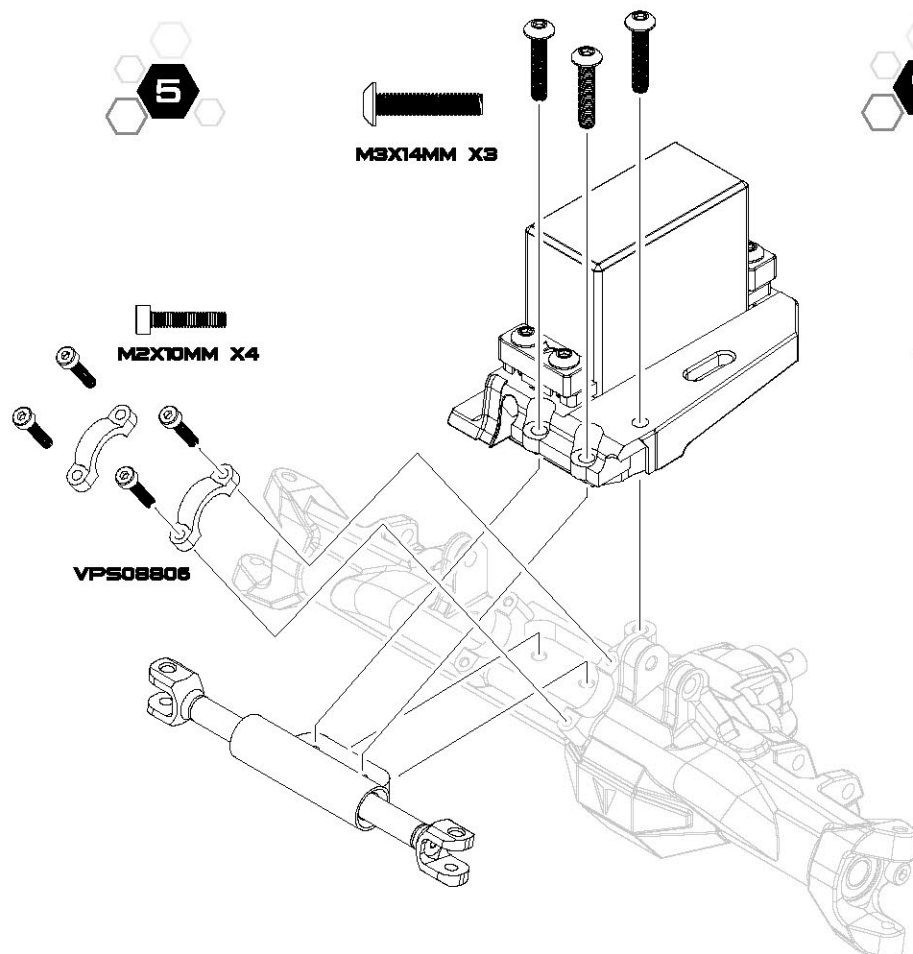


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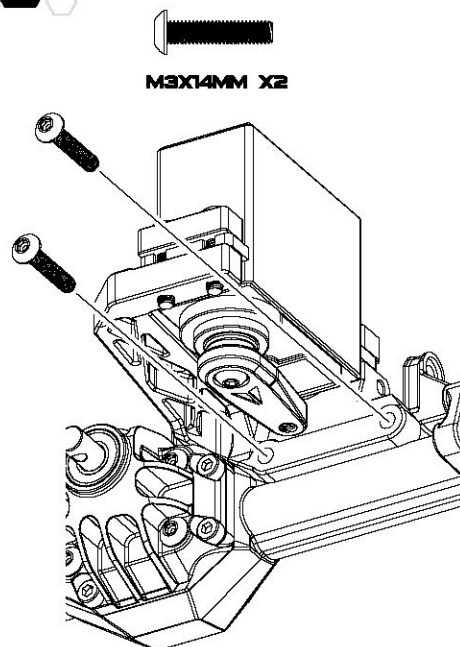
NOTE: SERVO HORN NOT INCLUDED RECOMMEND 20MM LENGTH



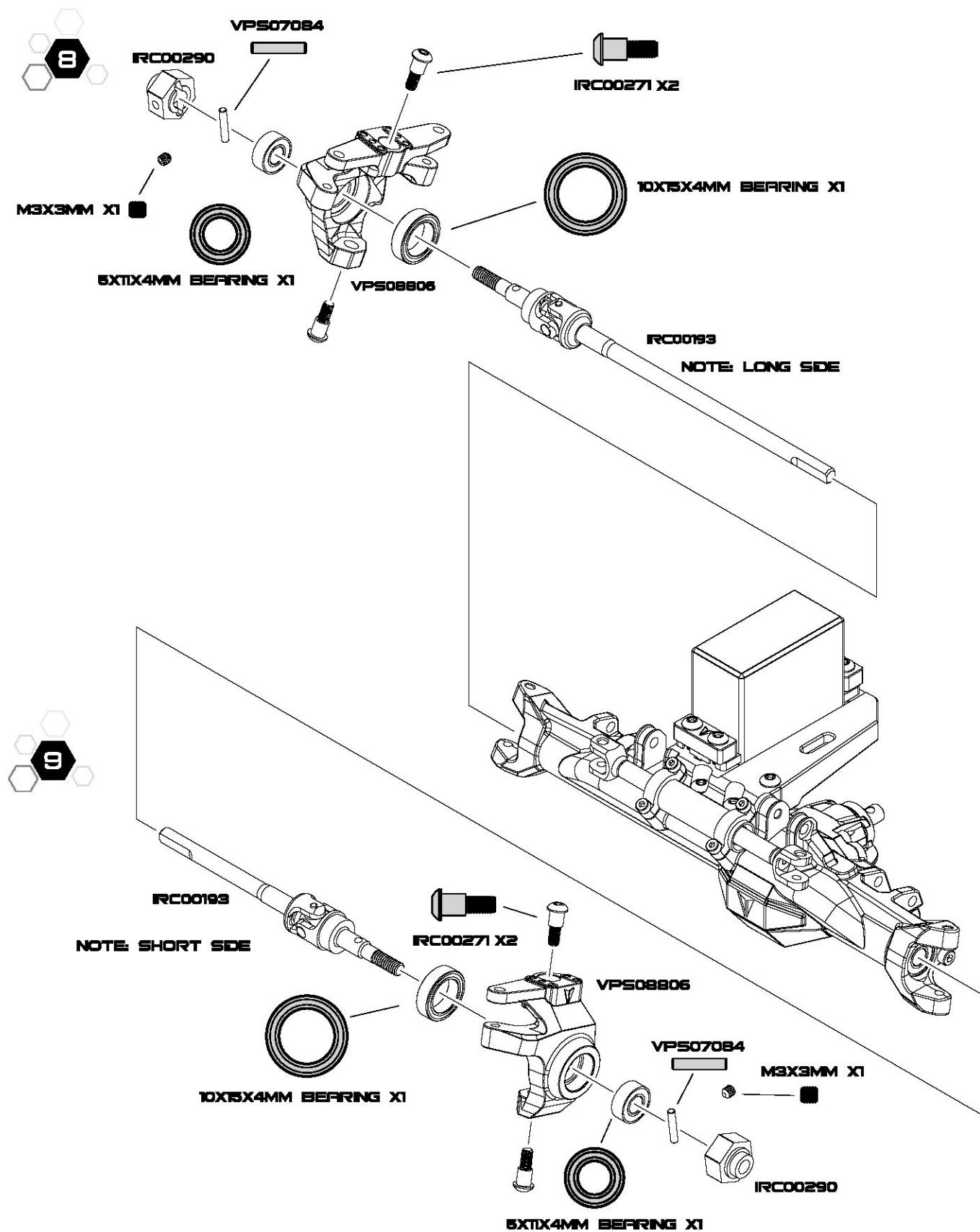
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7

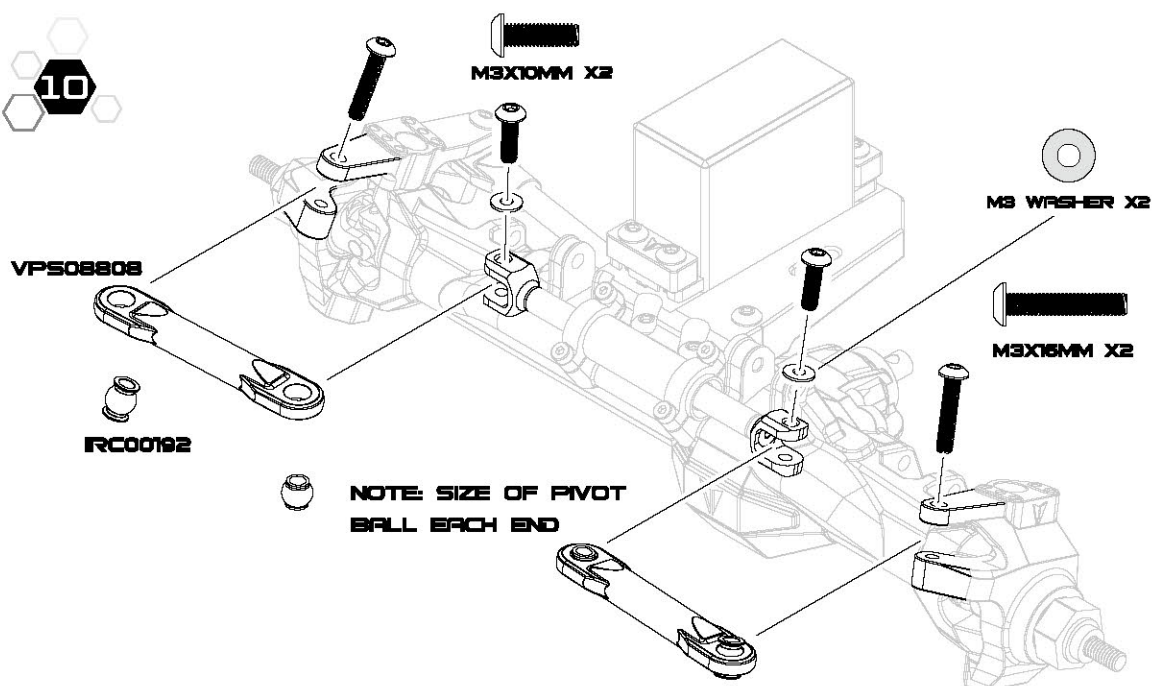


FRONT AXLE

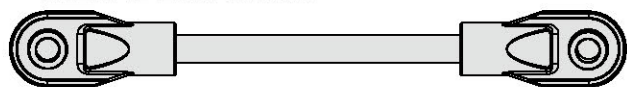


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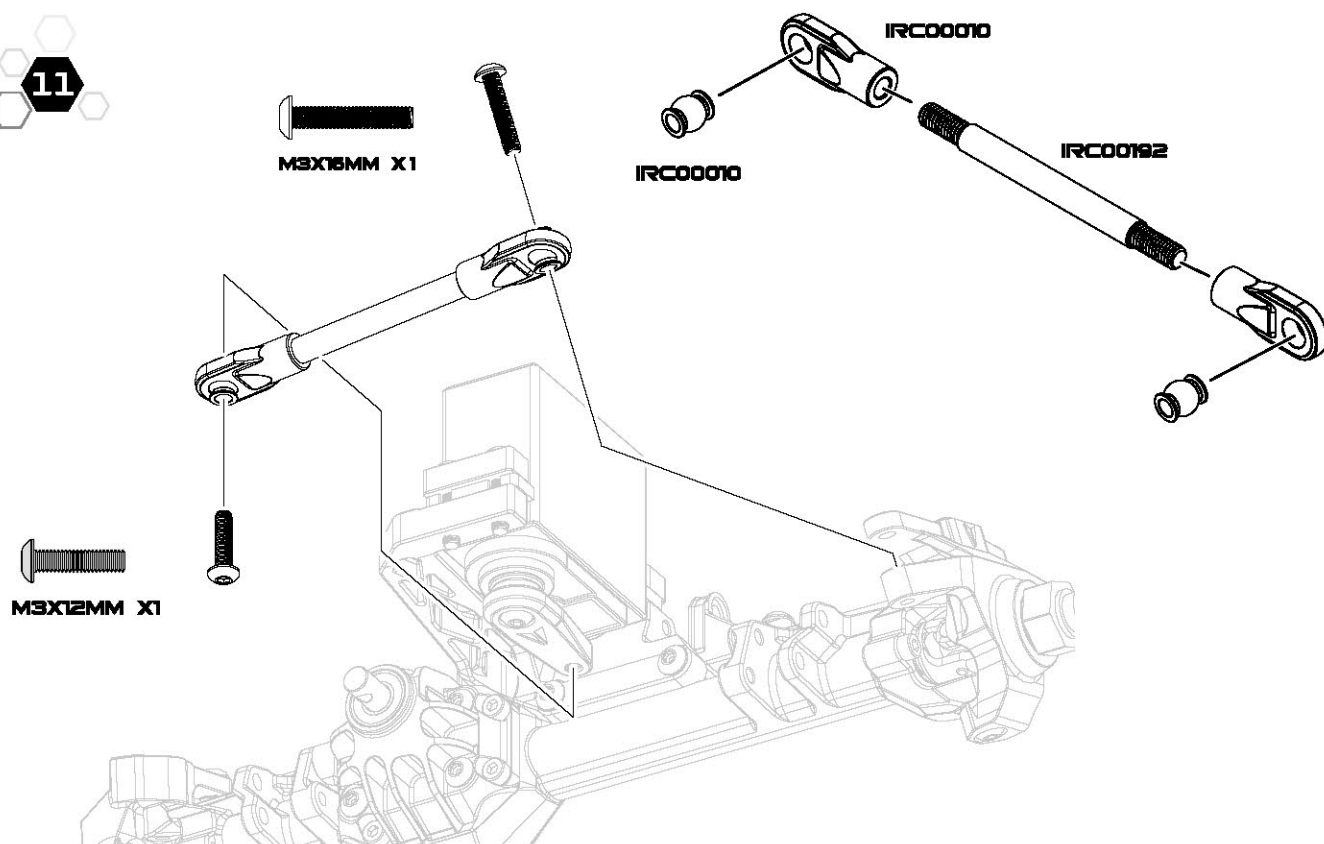
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X1 DRAG LINK 57.5MM

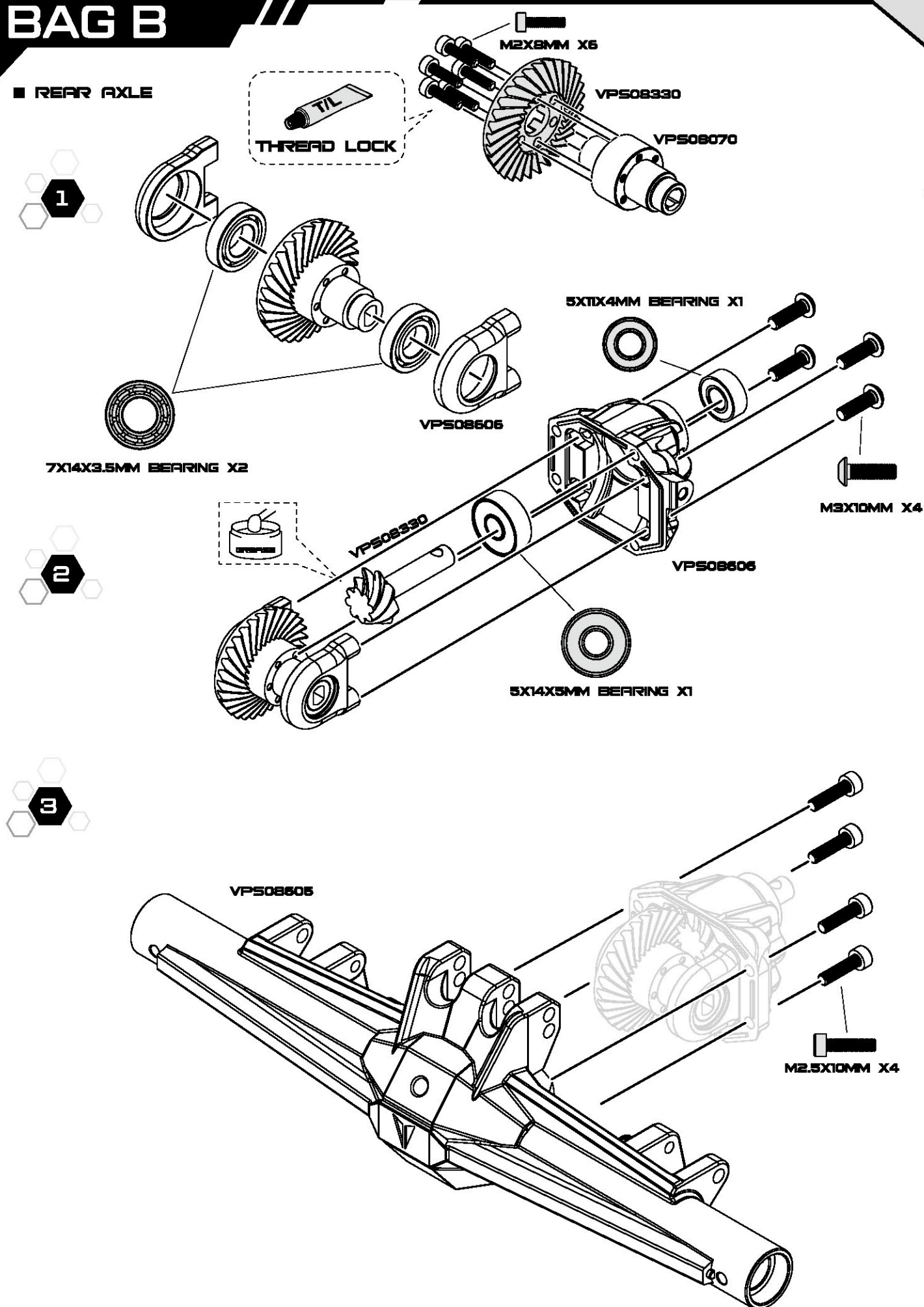


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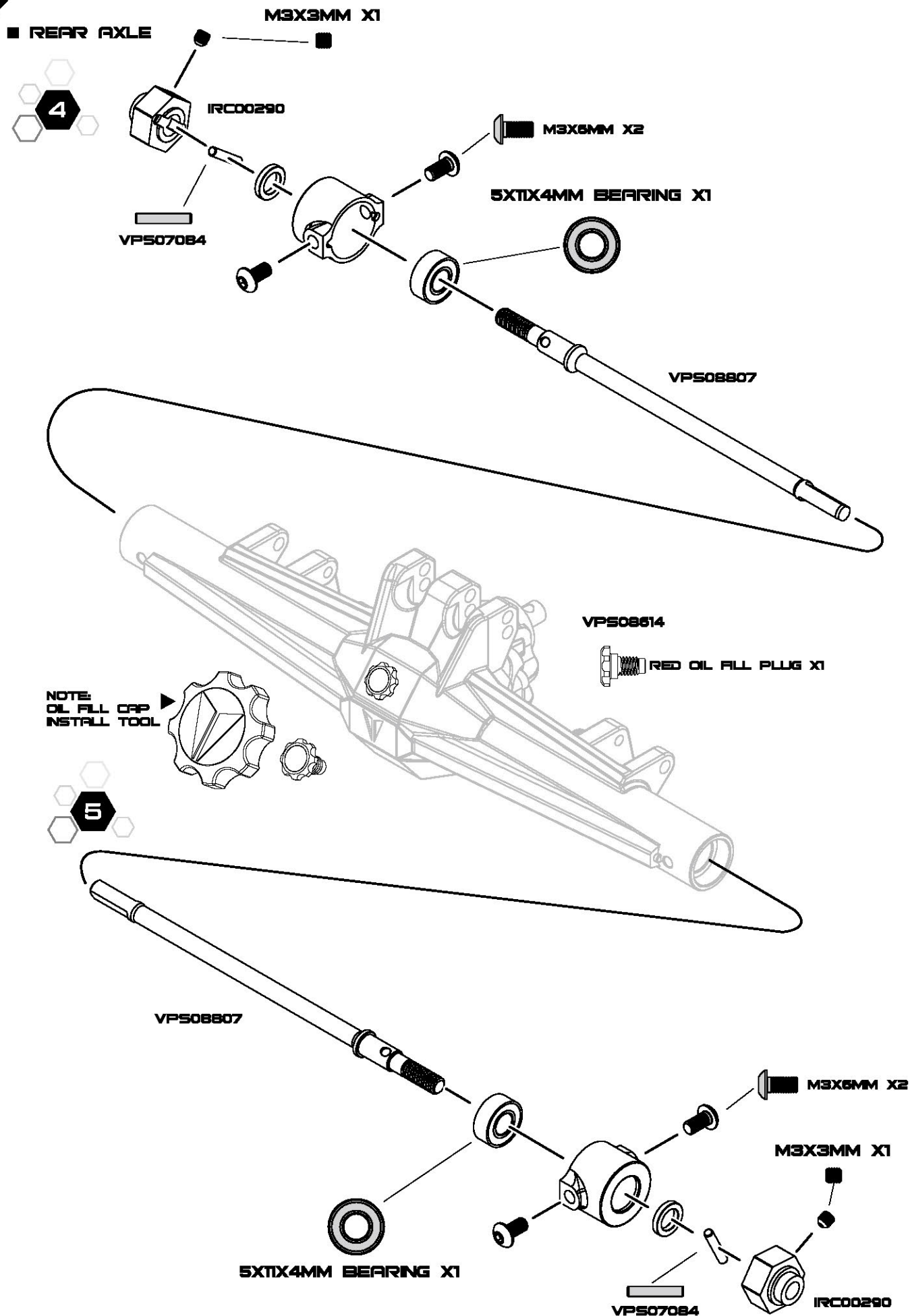


BAG B

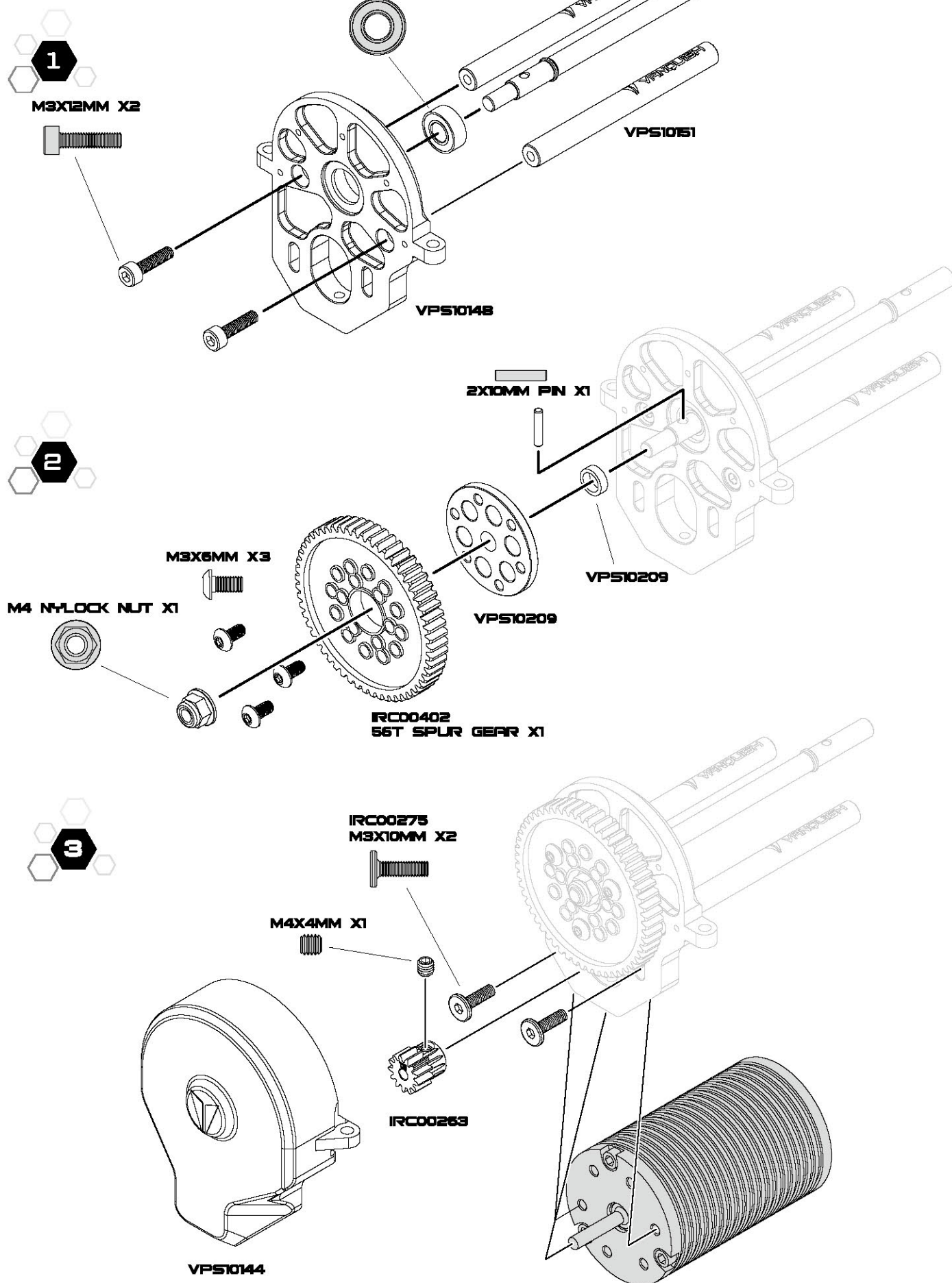
■ REAR AXLE



BAG B



TRANSMISSION



BAG C

TRANSMISSION

4

5

OPTIONAL GEAR COVER



VPS10144

M2X8MM X10

M3X12MM X2

VPS10144

M2X8MM X4

VPS10144

VPS10144

5X11X4MM BEARING X3

2X8MM PIN X1

2X10MM PIN X1

VPS10143

BOTTOM SHAFT LENGTH=37.5MM
*NOTE DIRECTION

23T GEAR LENGTH=11.3MM

VPS10143

VPS10147

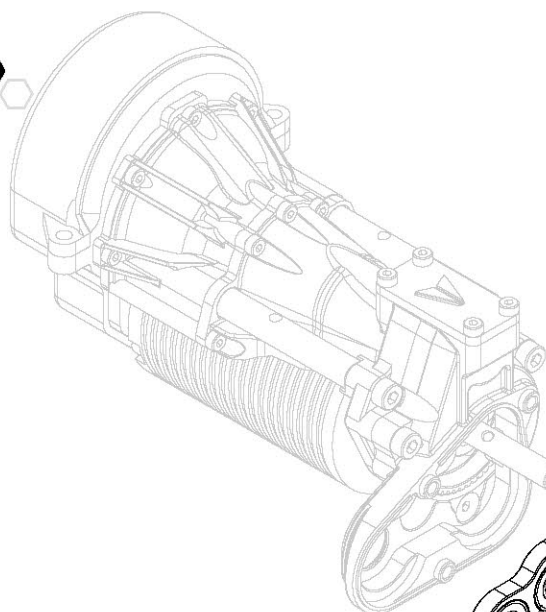
VPS10144

M3X12MM X2

M3X12MM X1

TRANSMISSION

6



2X8MM PIN X1

VPS10142

VPS10147
23T GEAR
LENGTH=13.8MM

VPS10143
REAR OUTPUT SHAFT
LENGTH=50MM
*NOTE DIRECTION

VPS10131

VPS10147
32T GEAR
REAR OUTPUT

VPS10131

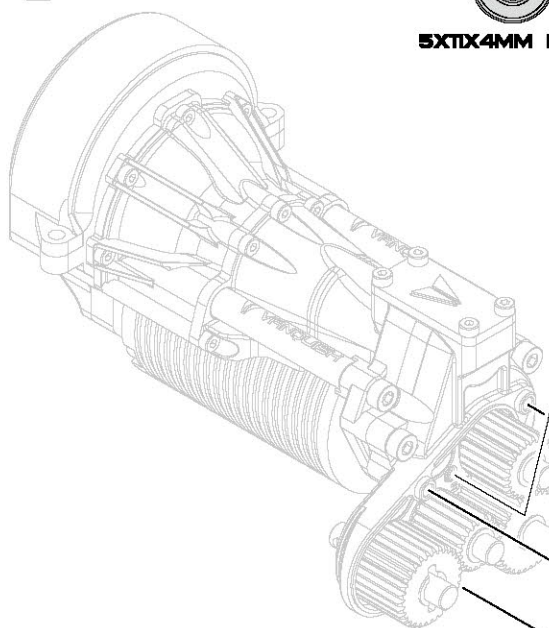
2X10MM PIN X2

5X11X4MM BEARING X4

VPS10147
30T OVERDRIVE GEAR
FRONT OUTPUT

VPS10143
FRONT OUTPUT
LENGTH=29.5MM
*NOTE DIRECTION

7



VF 510142

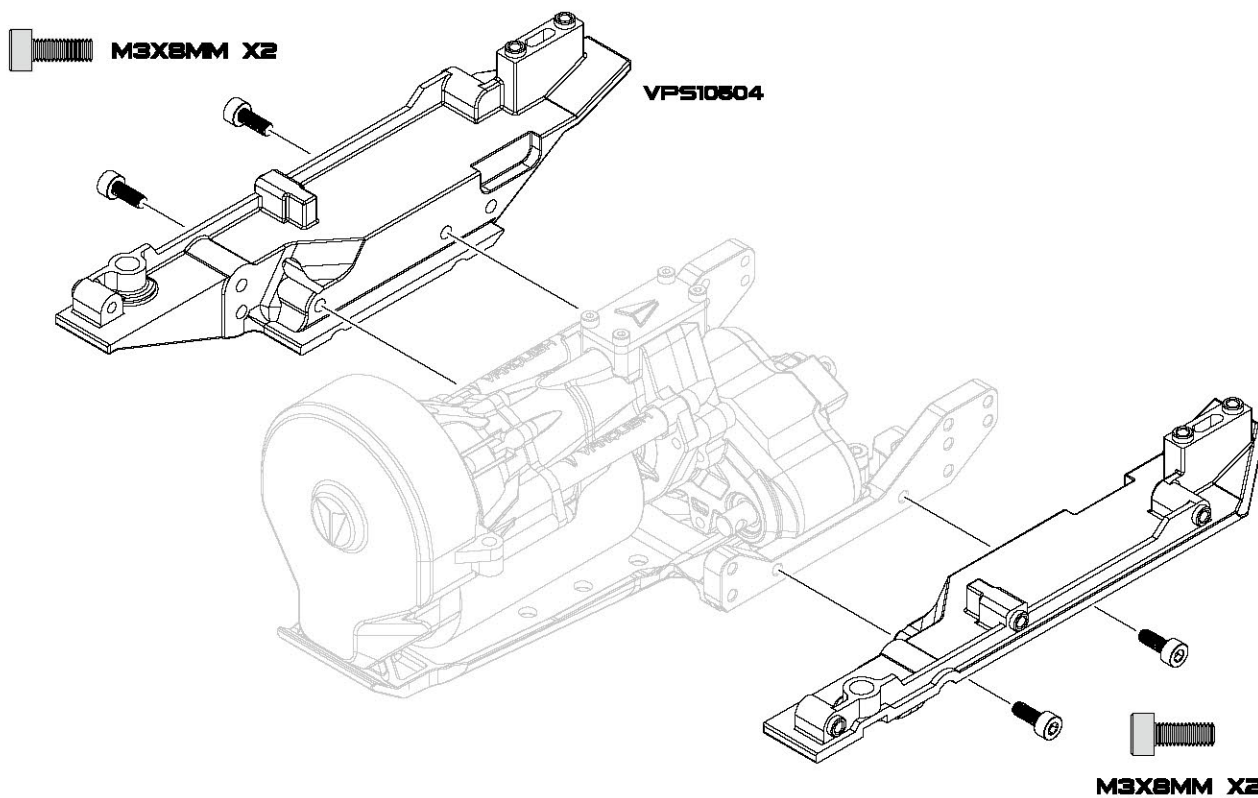
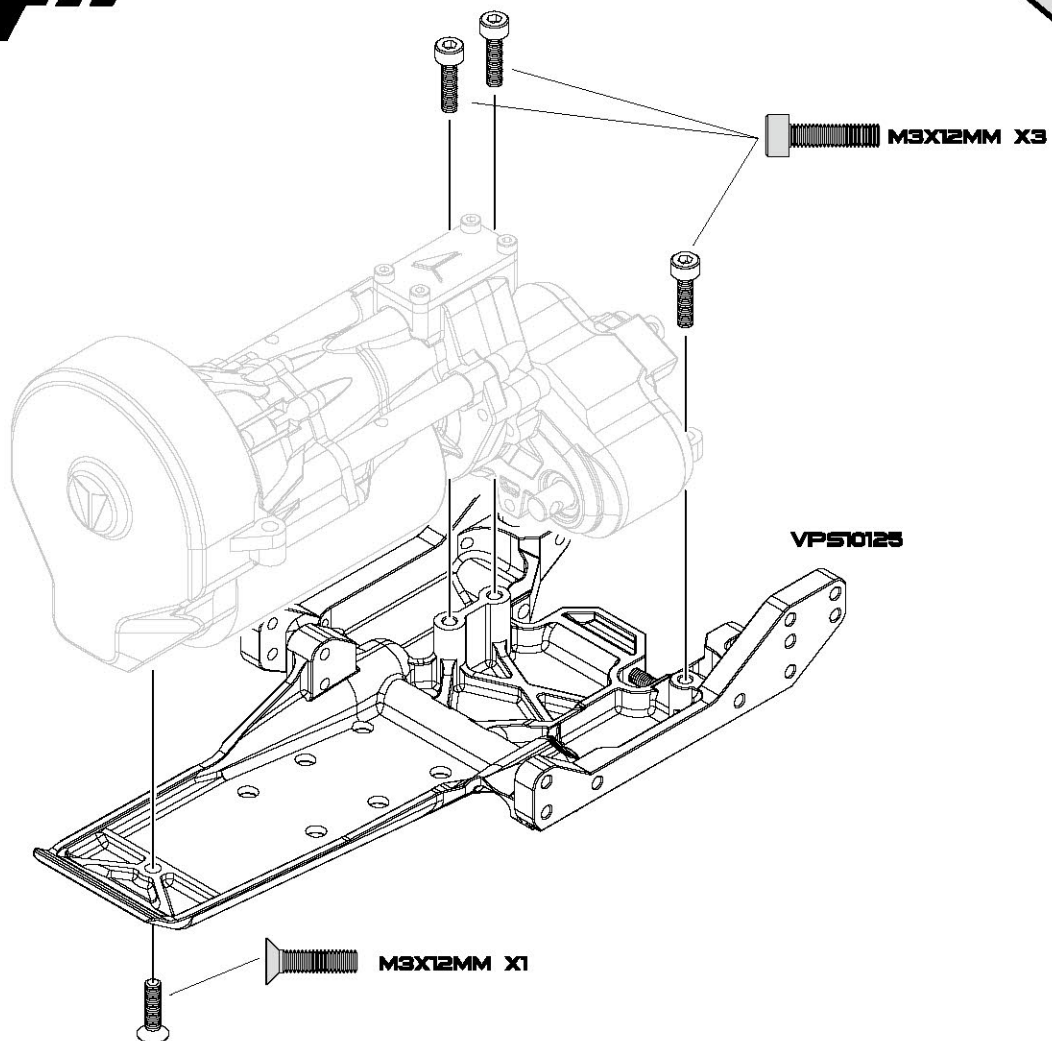
5X11X4MM BEARING X5

VPS10144

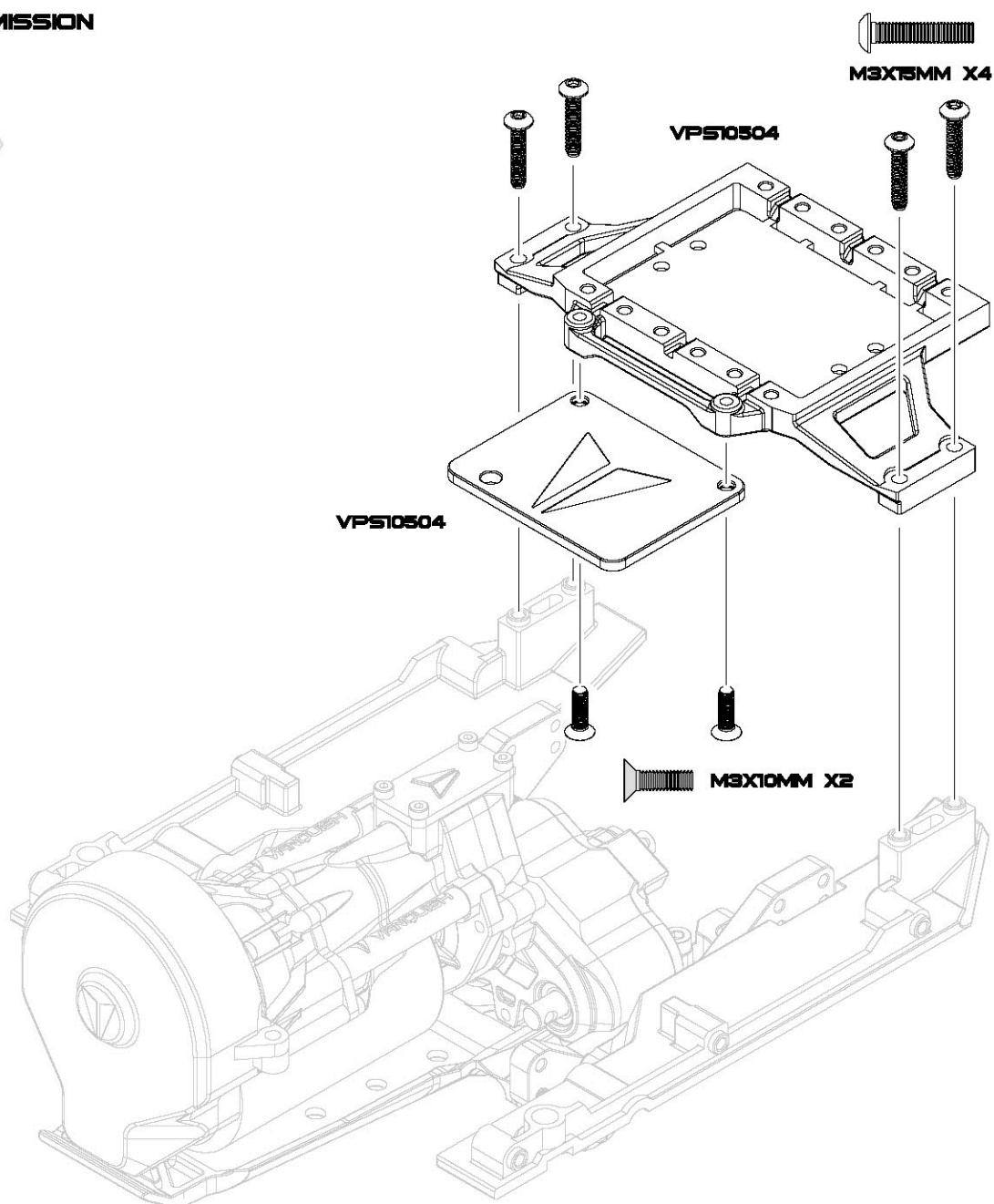
M3X12MM X2

M3X30MM X1

TRANSMISSION



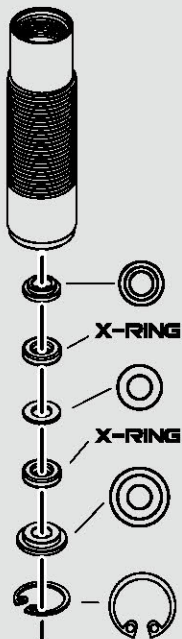
TRANSMISSION



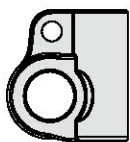
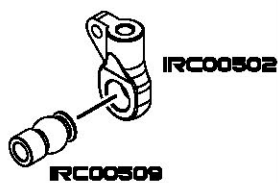
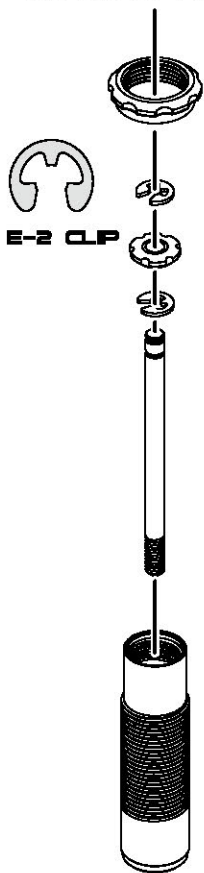
BAG D

SHOCKS

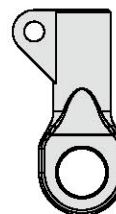
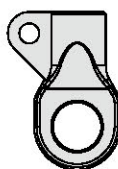
ASSEMBLY STEP 1



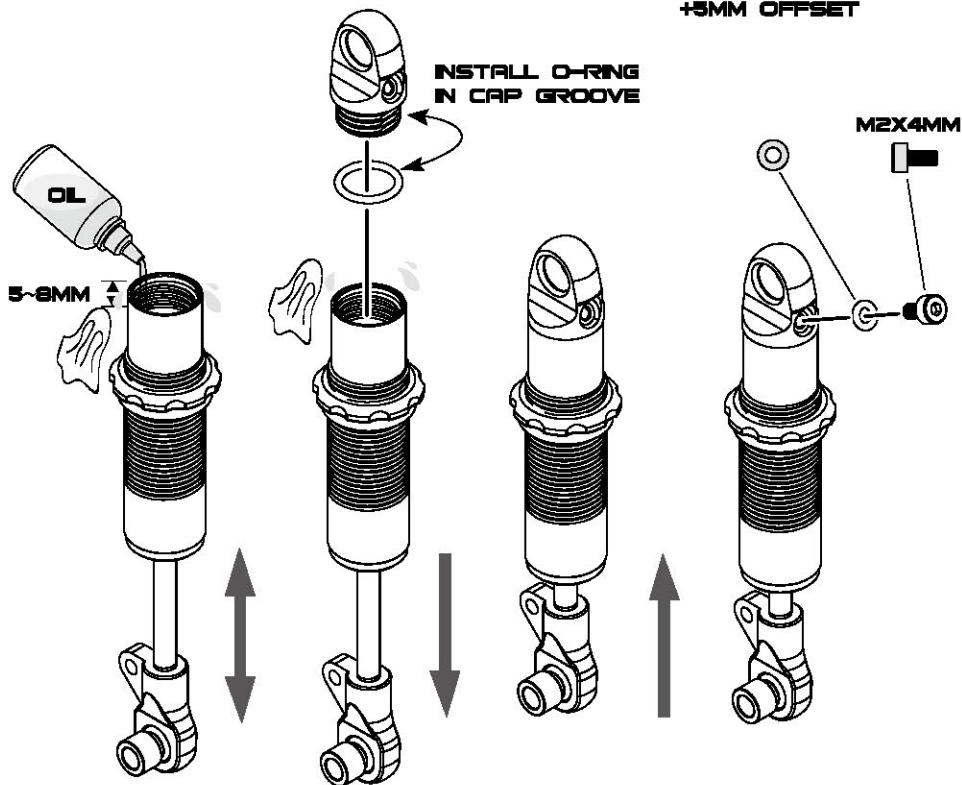
ASSEMBLY STEP 2



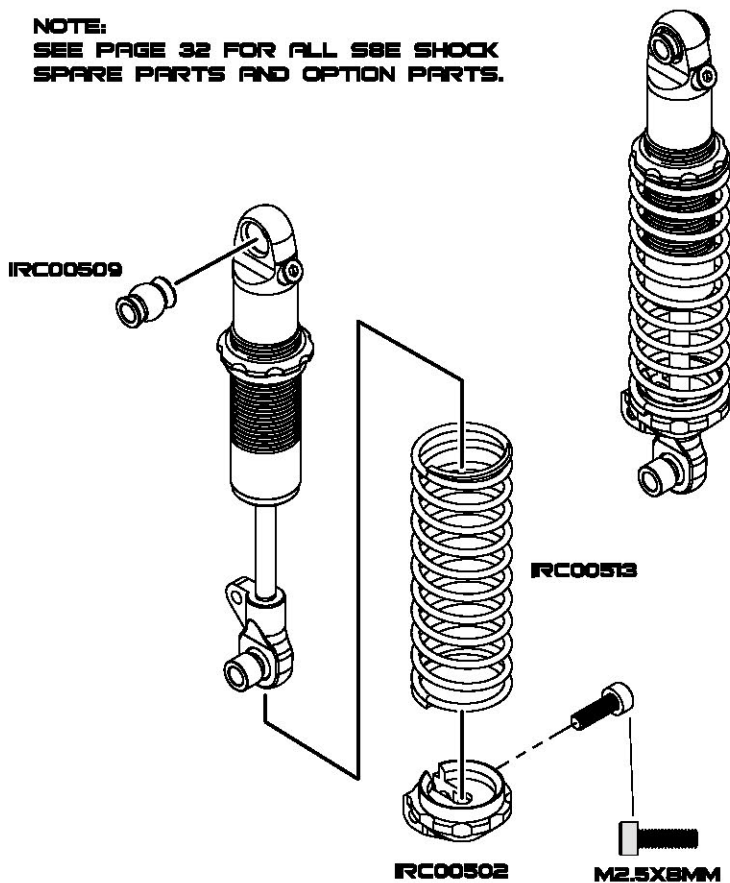
IRC00523
-5MM OFFSET



IRC00523
+5MM OFFSET



NOTE:
SEE PAGE 32 FOR ALL S8E SHOCK
SPARE PARTS AND OPTION PARTS.



DRIVESHAFTS

FRONT AXLE

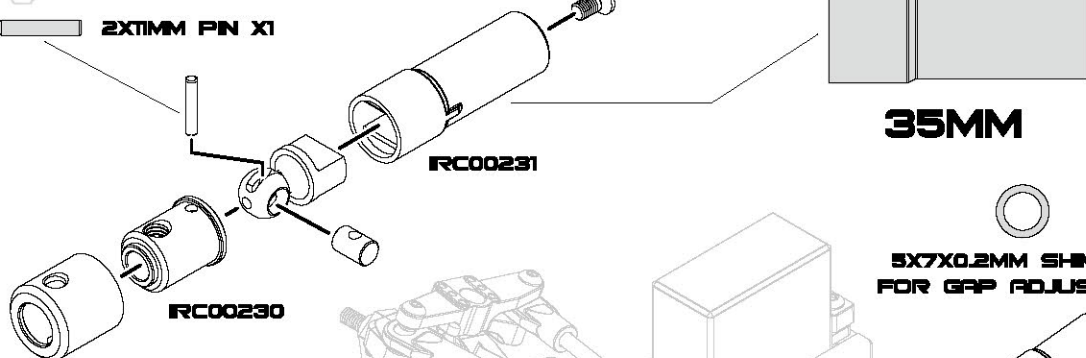


2X11MM PIN X1

M3X6MM X1

THREAD LOCK

35MM



5X7X0.2MM SHIM X1
FOR GAP ADJUSTMENT

RC00272 X1

REAR AXLE

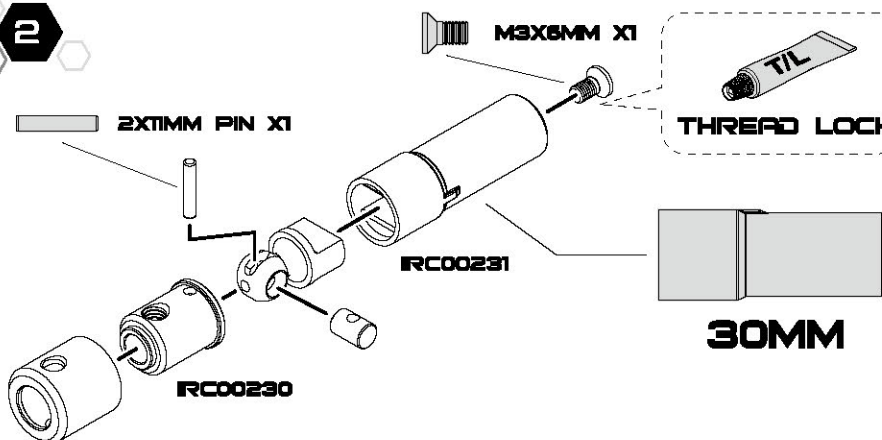


2X11MM PIN X1

M3X6MM X1

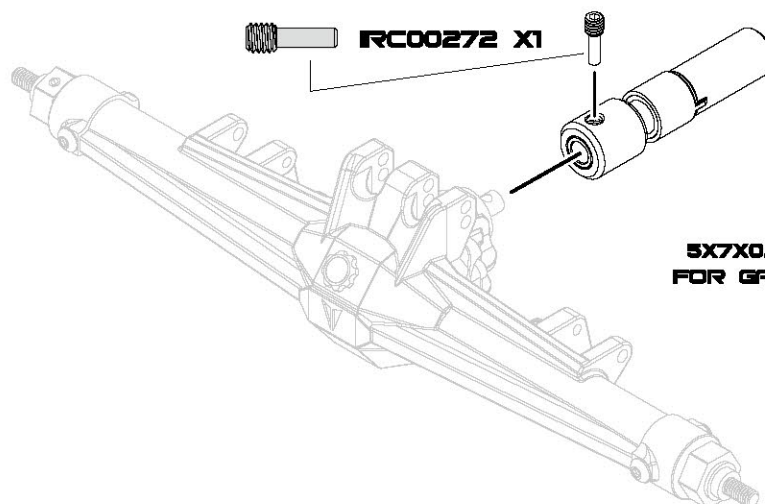
THREAD LOCK

30MM



5X7X0.2MM SHIM X1
FOR GAP ADJUSTMENT

RC00272 X1





LINKS

X2 REAR LOWER LINKS 124MM



X2 REAR UPPER LINKS 114MM



X2 FRONT LOWER LINKS 124MM

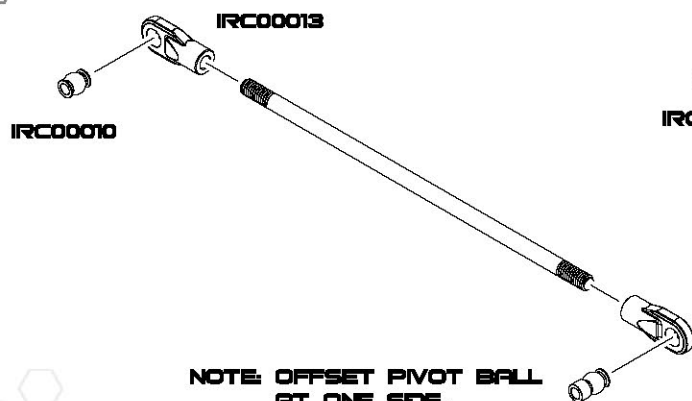


X2 FRONT UPPER LINKS 124MM



1

X2 FRONT UPPER LINKS

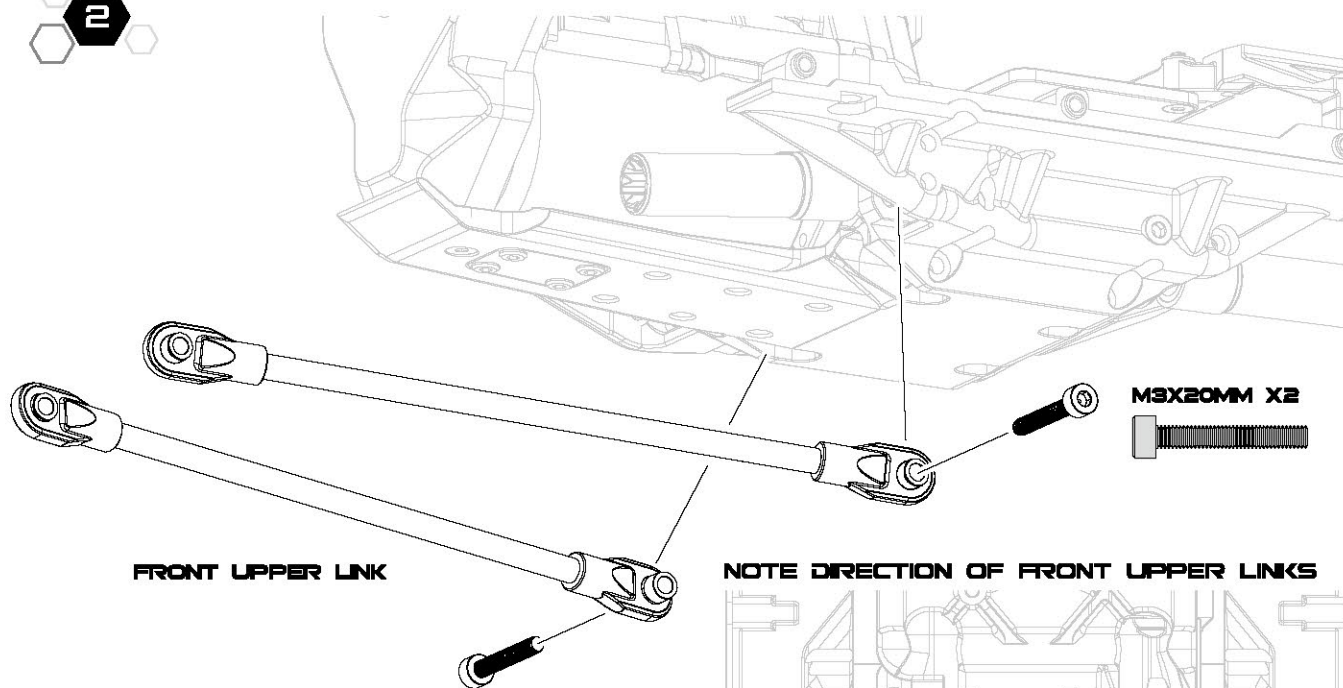


IRC00013

IRC00010

NOTE: OFFSET PIVOT BALL
AT ONE SIDE.

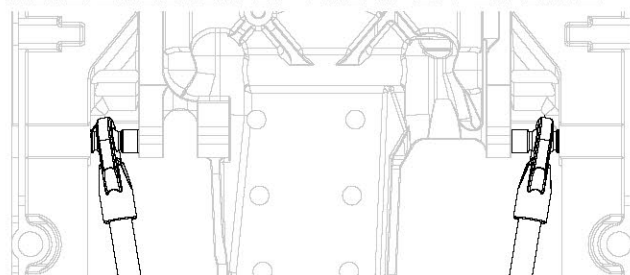
2



M3X20MM X2

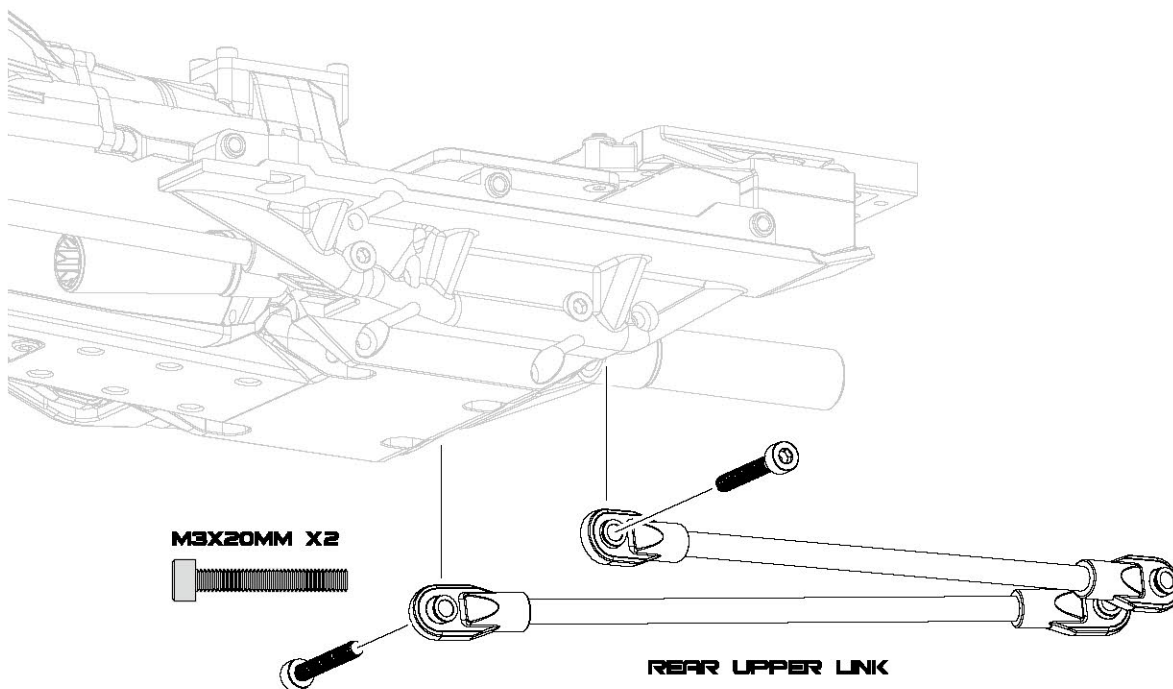
FRONT UPPER LINK

NOTE DIRECTION OF FRONT UPPER LINKS

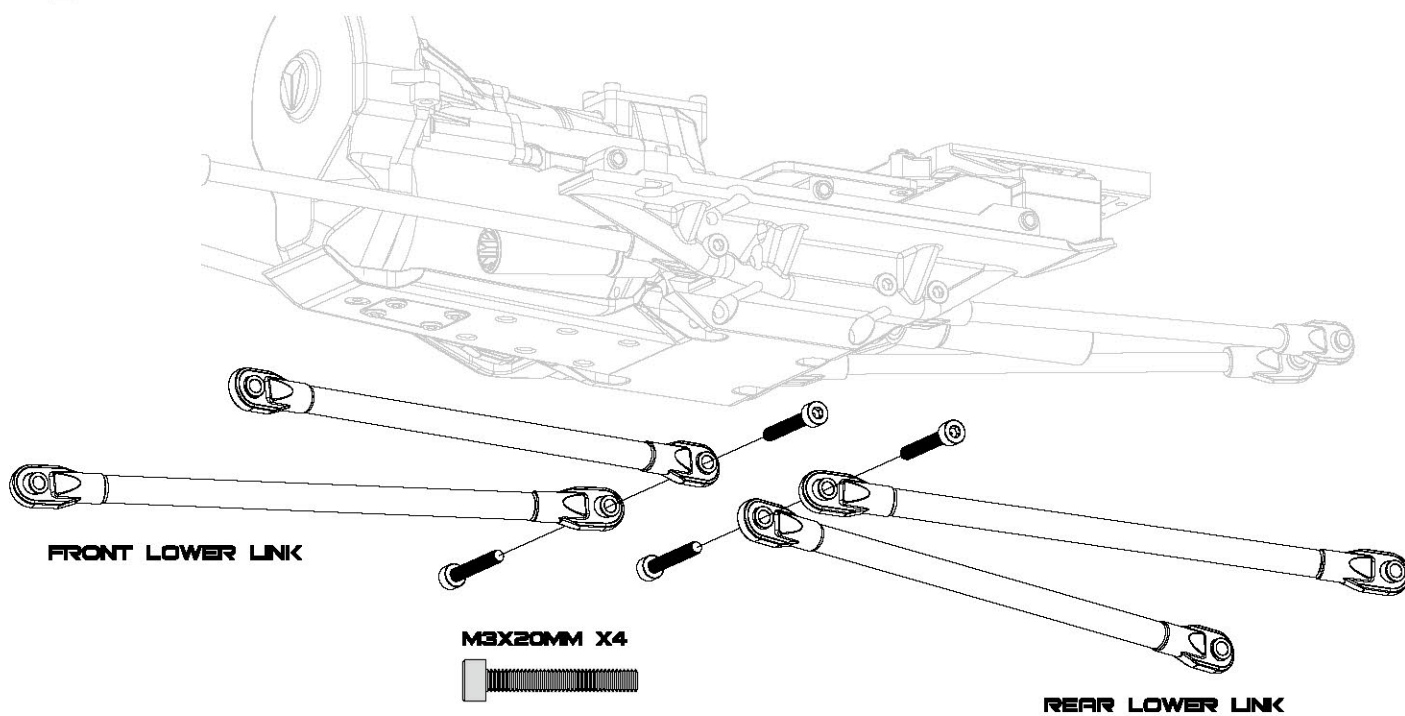


LINKS

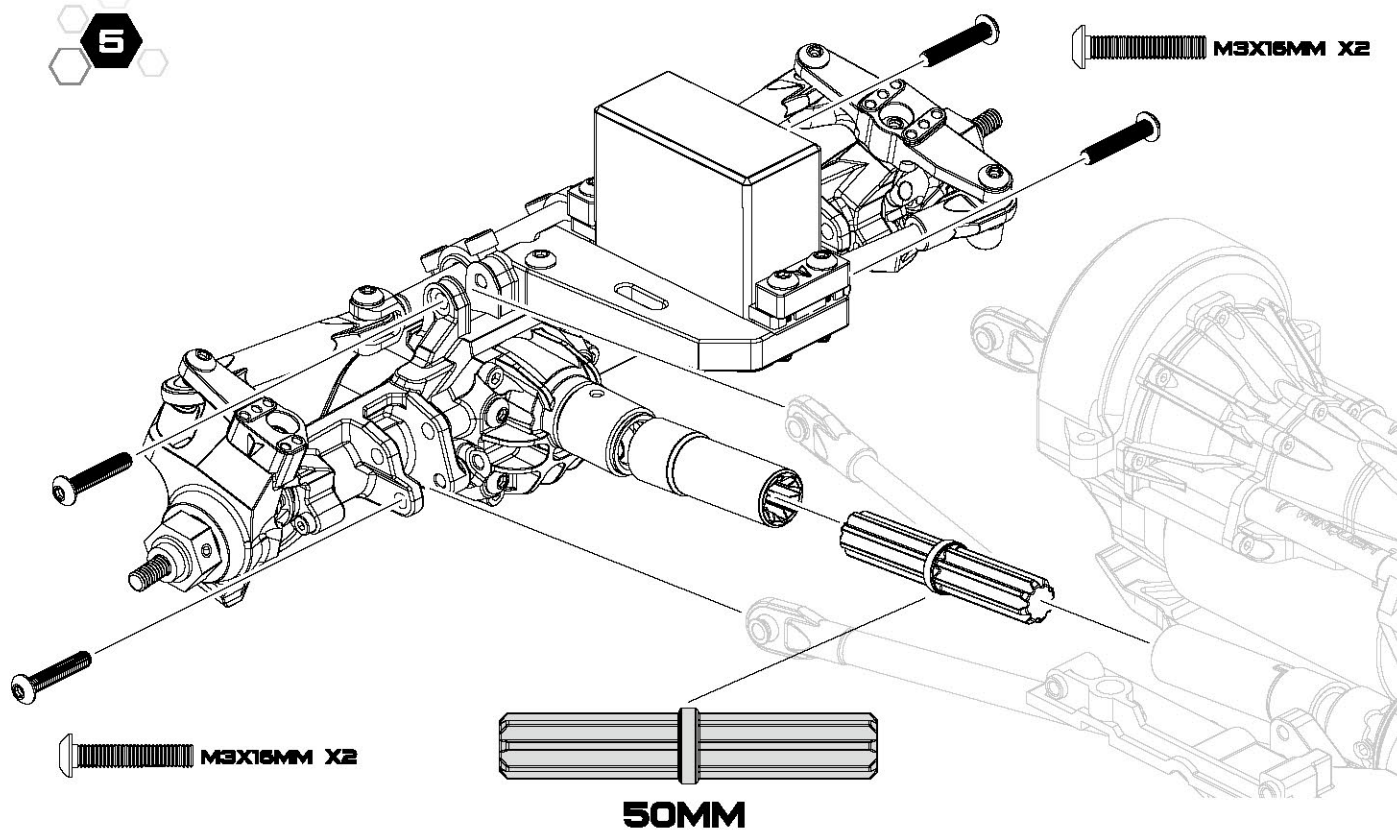
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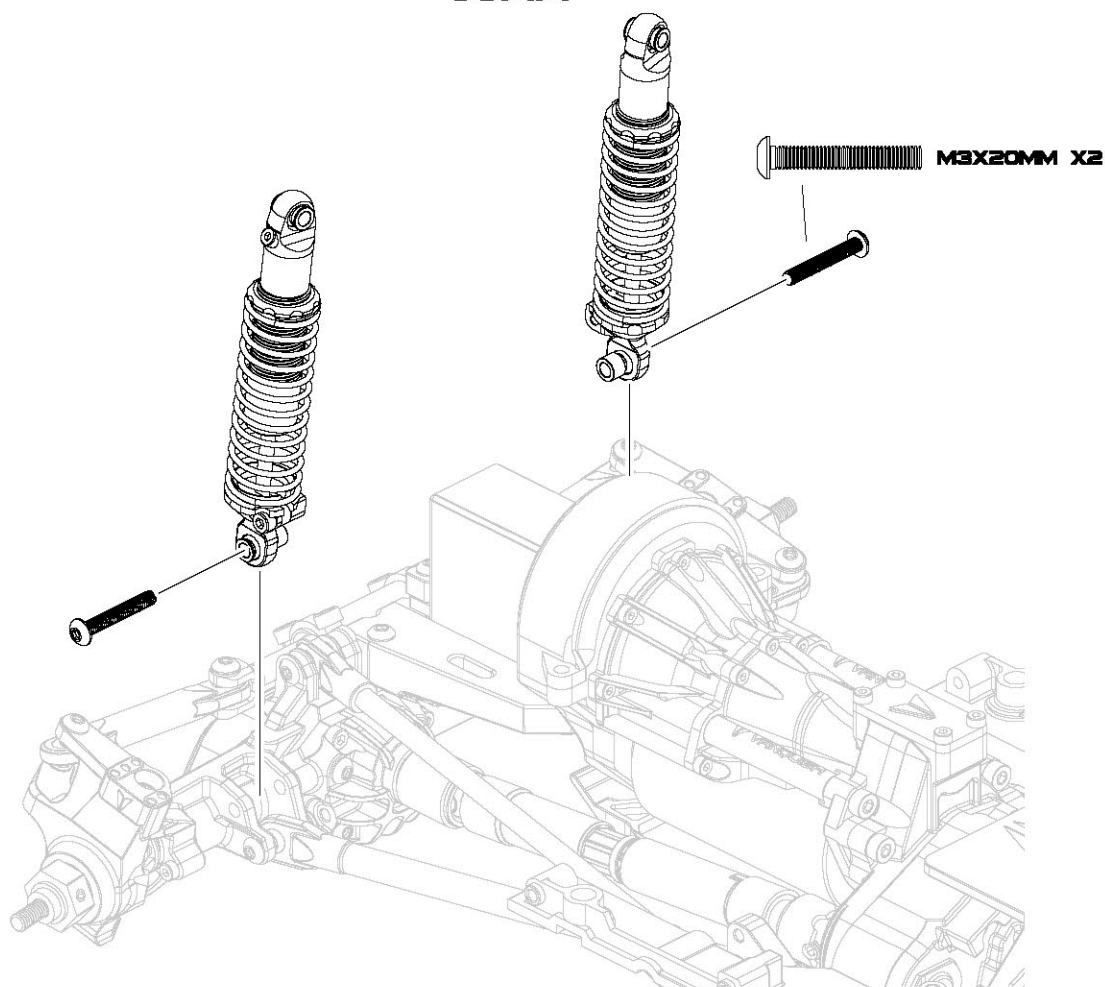
4



5



6



■ LNK5

5

M3X35MM X1

M3 NYLOCK NUT X1

M3X16MM X2

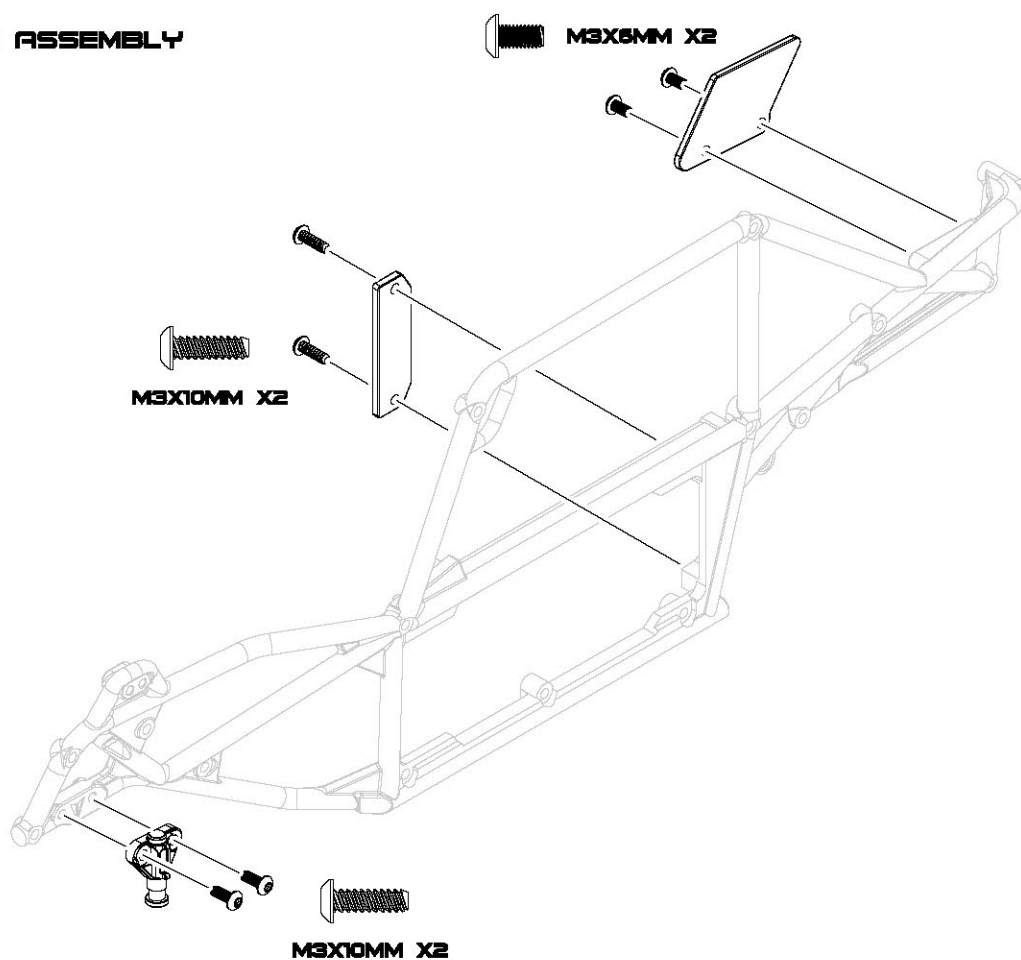
40MM

6

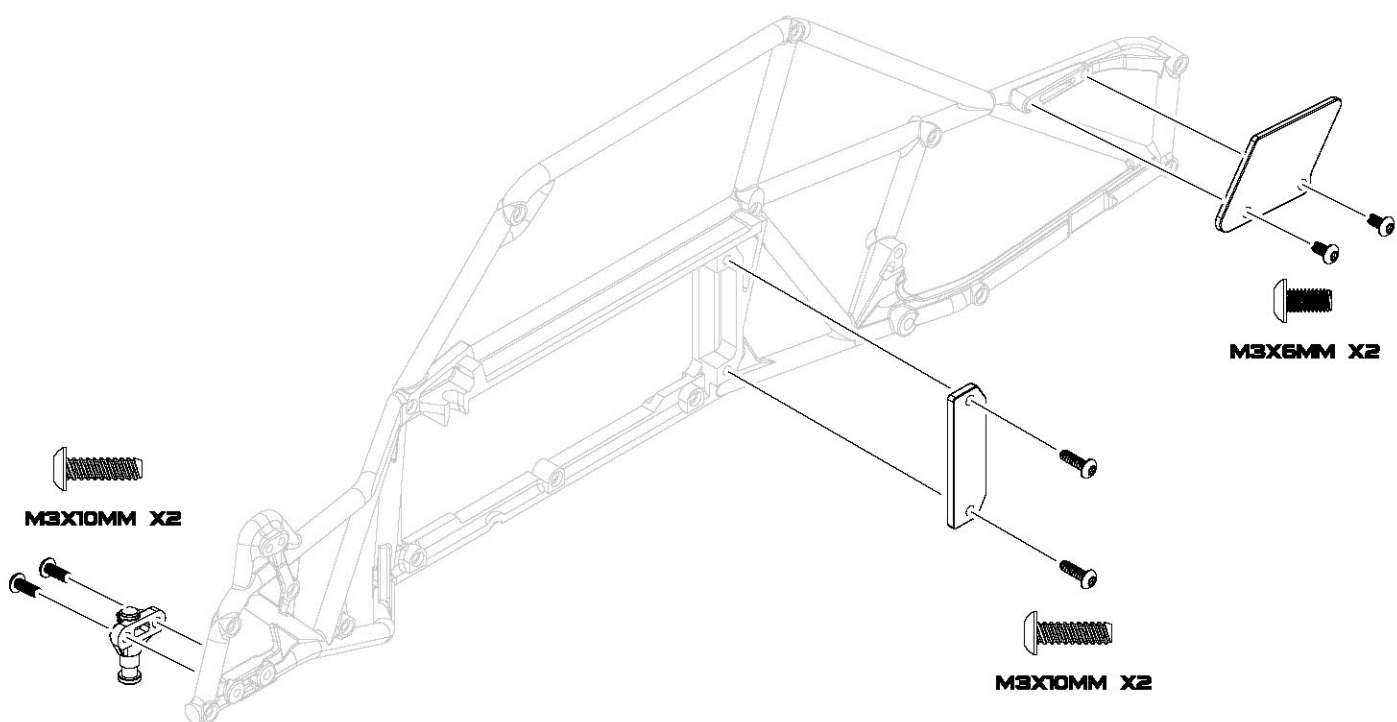
M3X20MM X2

■ CAGE MAIN ASSEMBLY

1



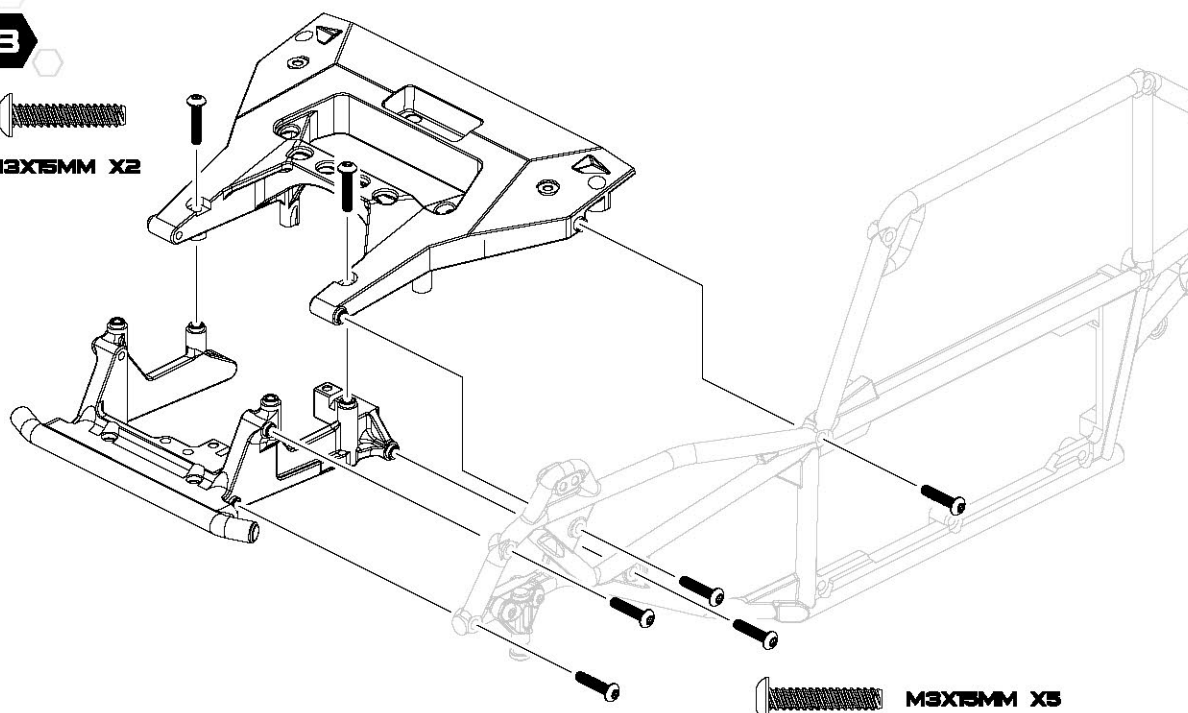
2



■ CAGE MAIN ASSEMBLY

3

M3X15MM X2



M3X15MM X5

4

M3X10MM X1

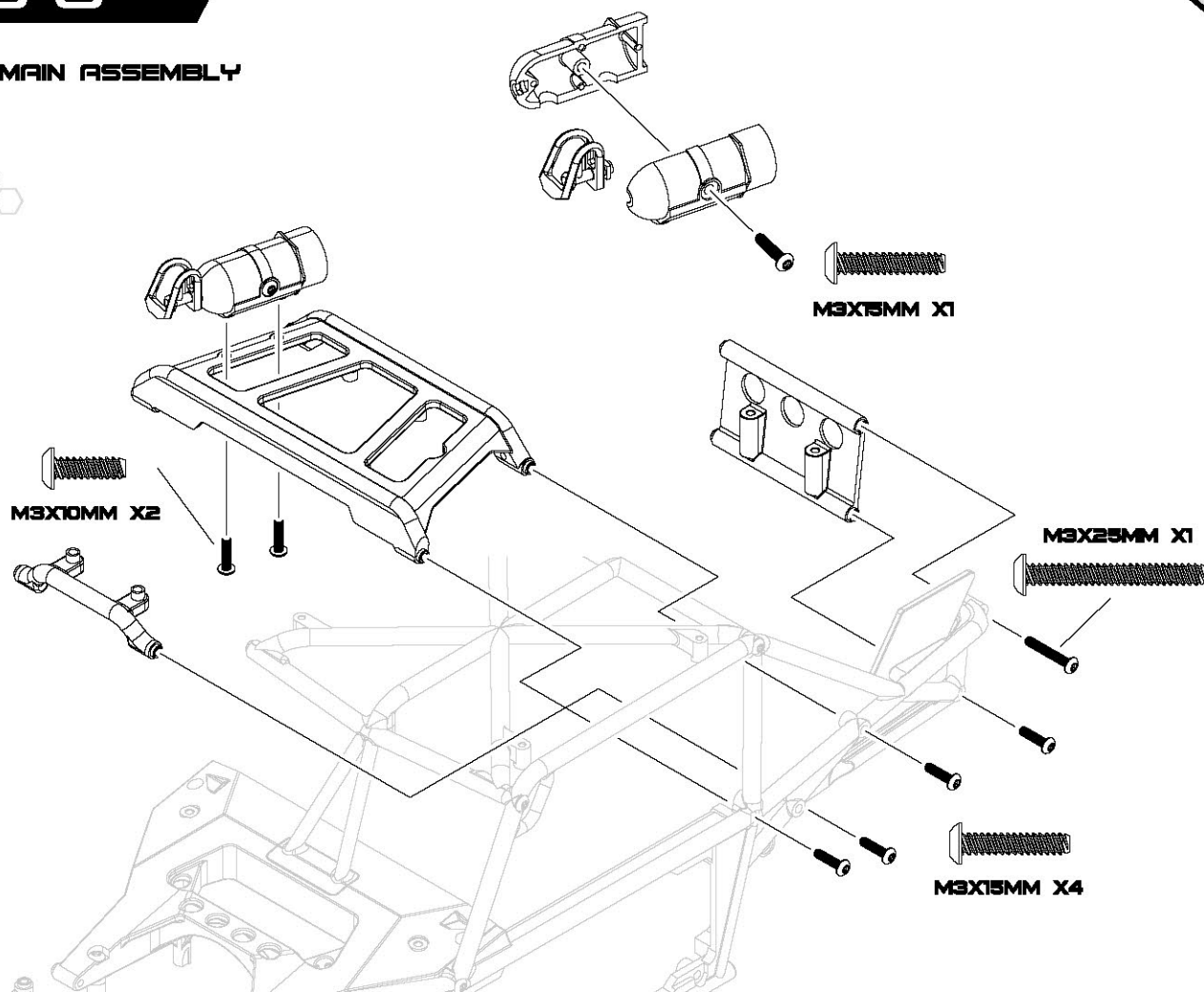


M3X15MM X2

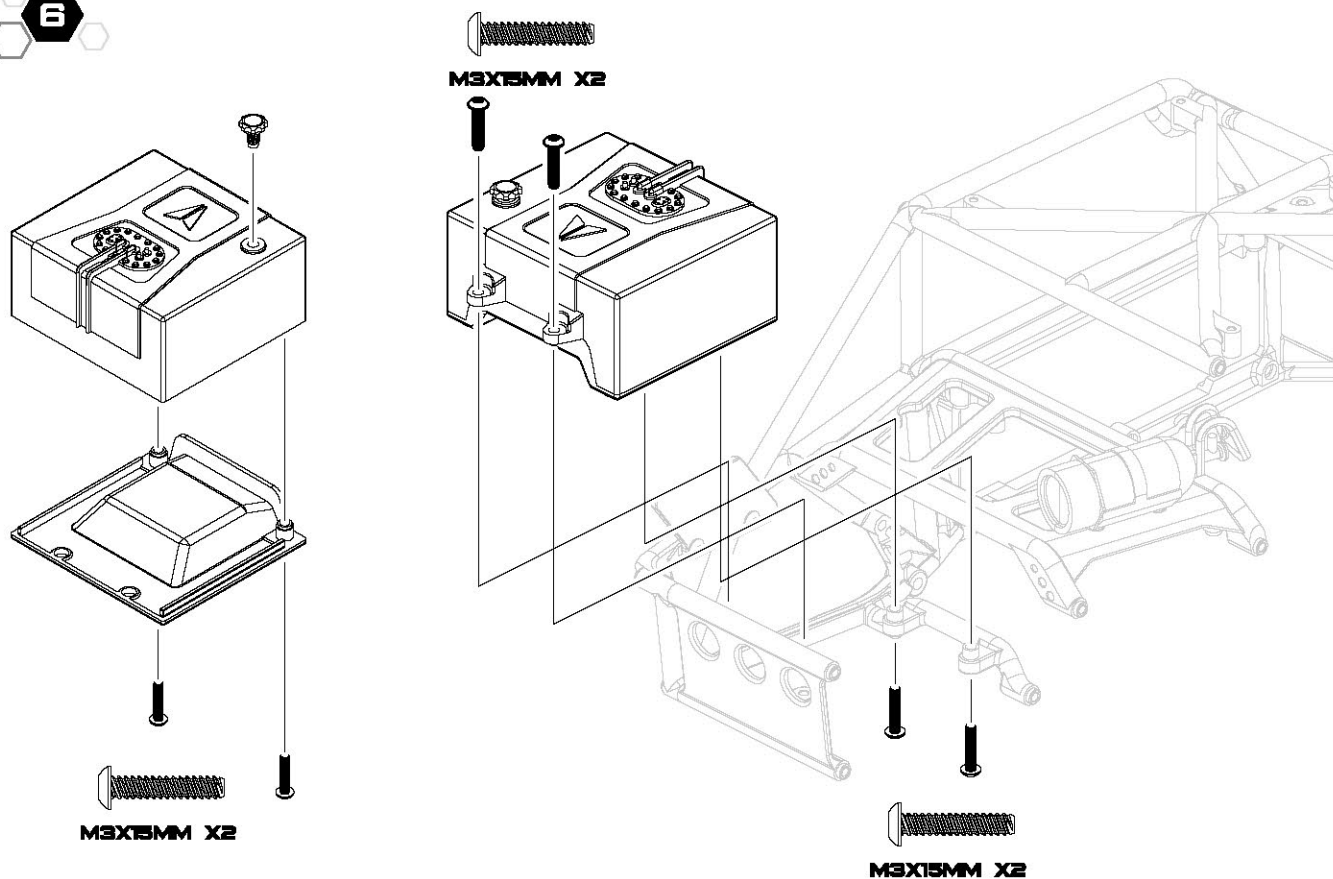
M3X15MM X2

■ CAGE MAIN ASSEMBLY

5

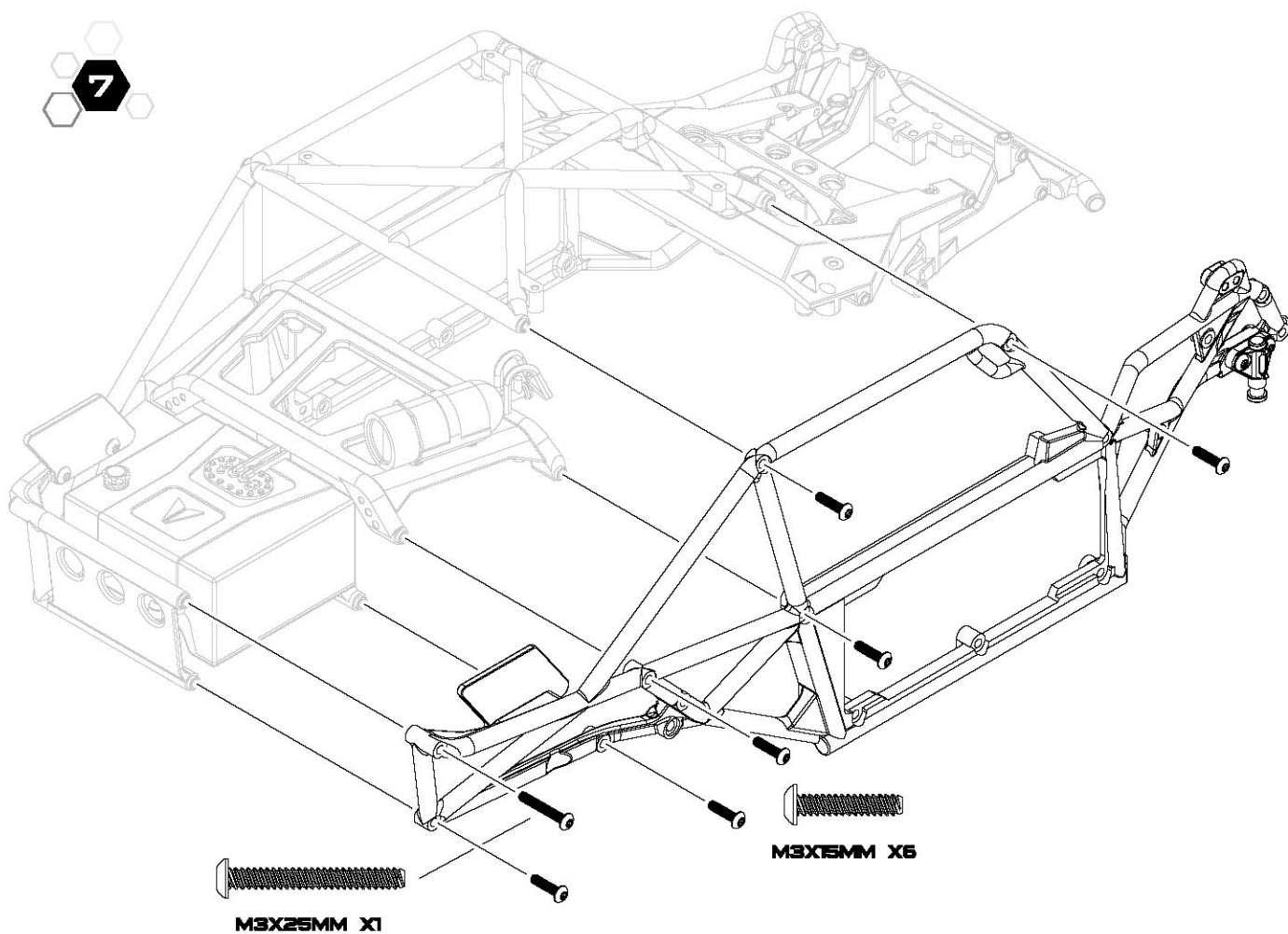


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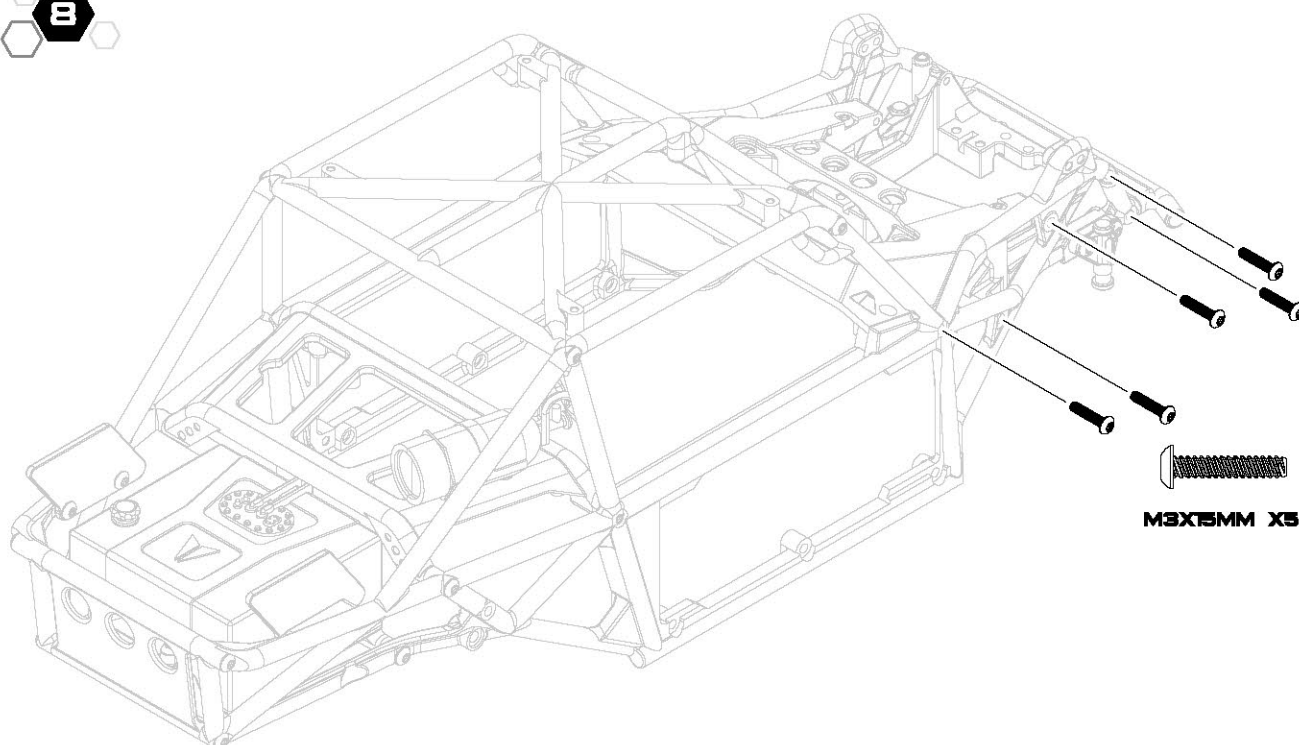


■ CAGE MAIN ASSEMBLY

7

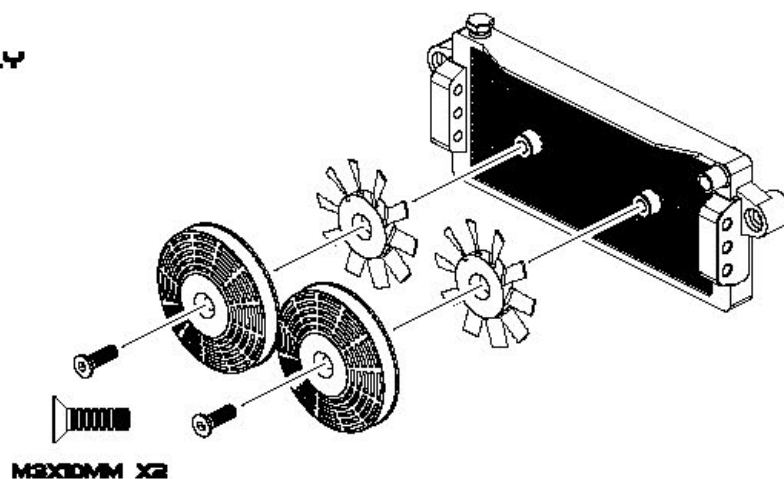


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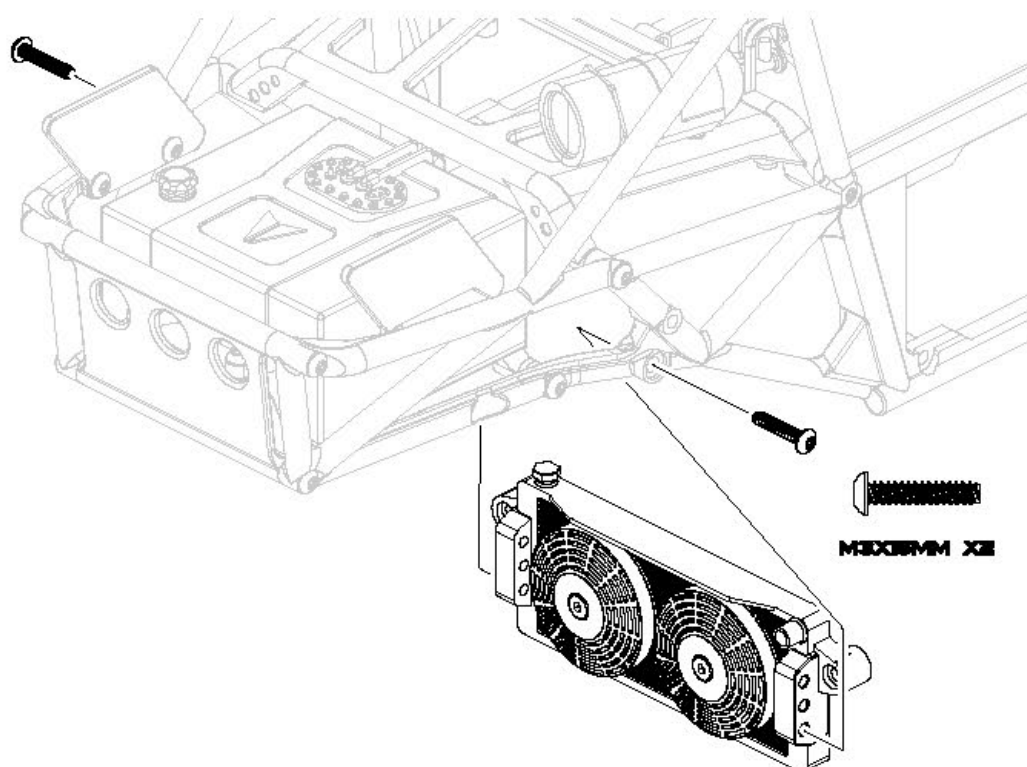


■ CAGE MAIN ASSEMBLY

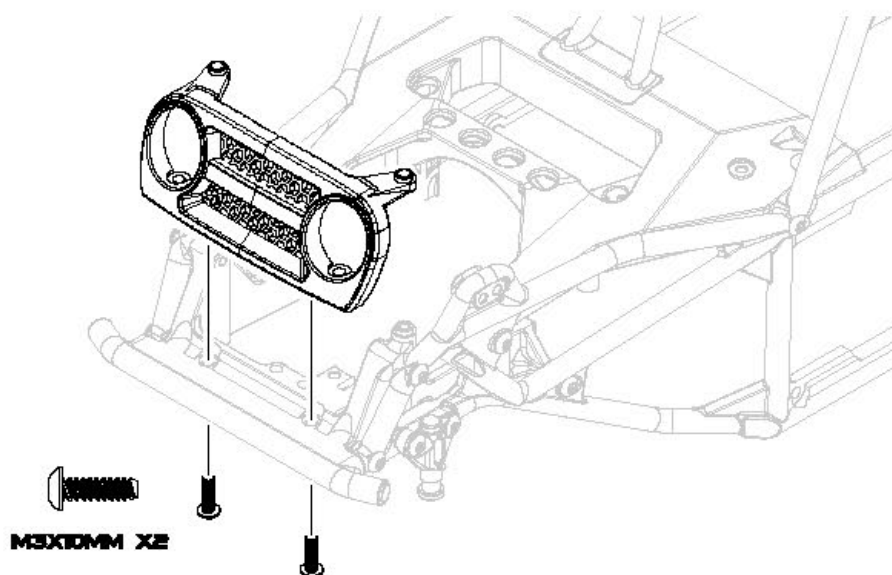
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10

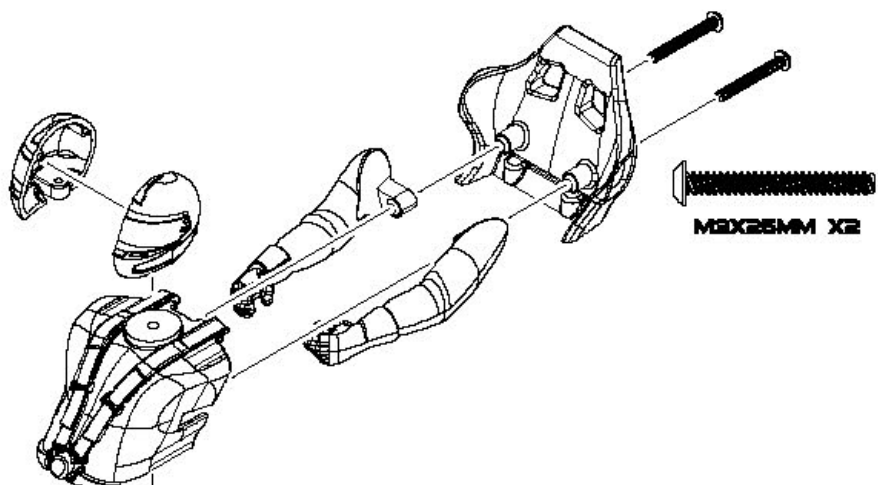


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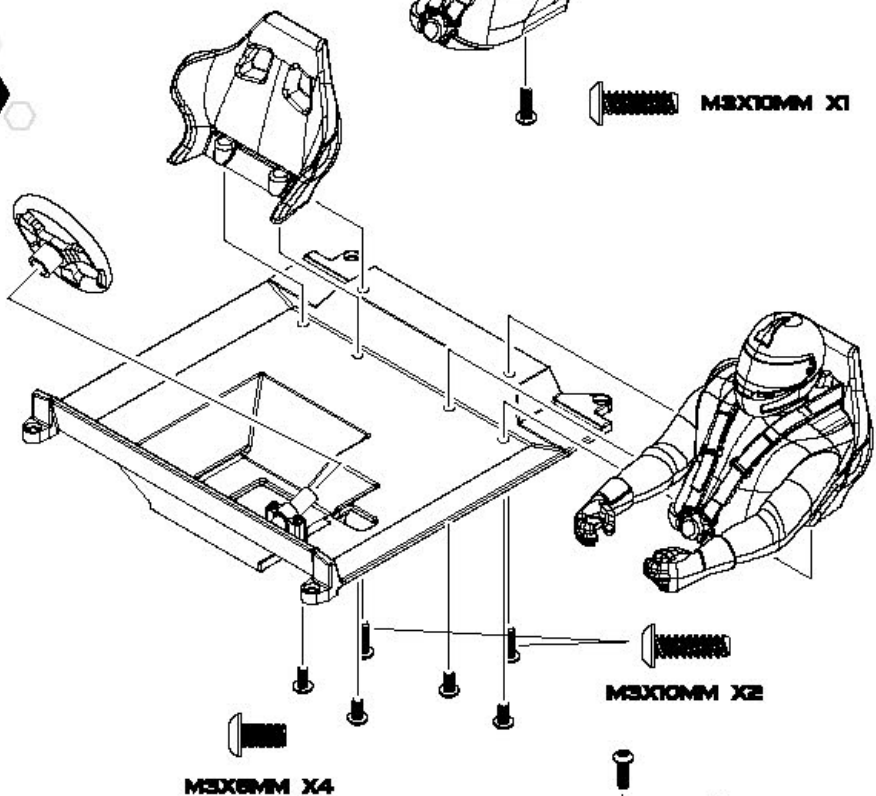


■ CAGE MAIN ASSEMBLY

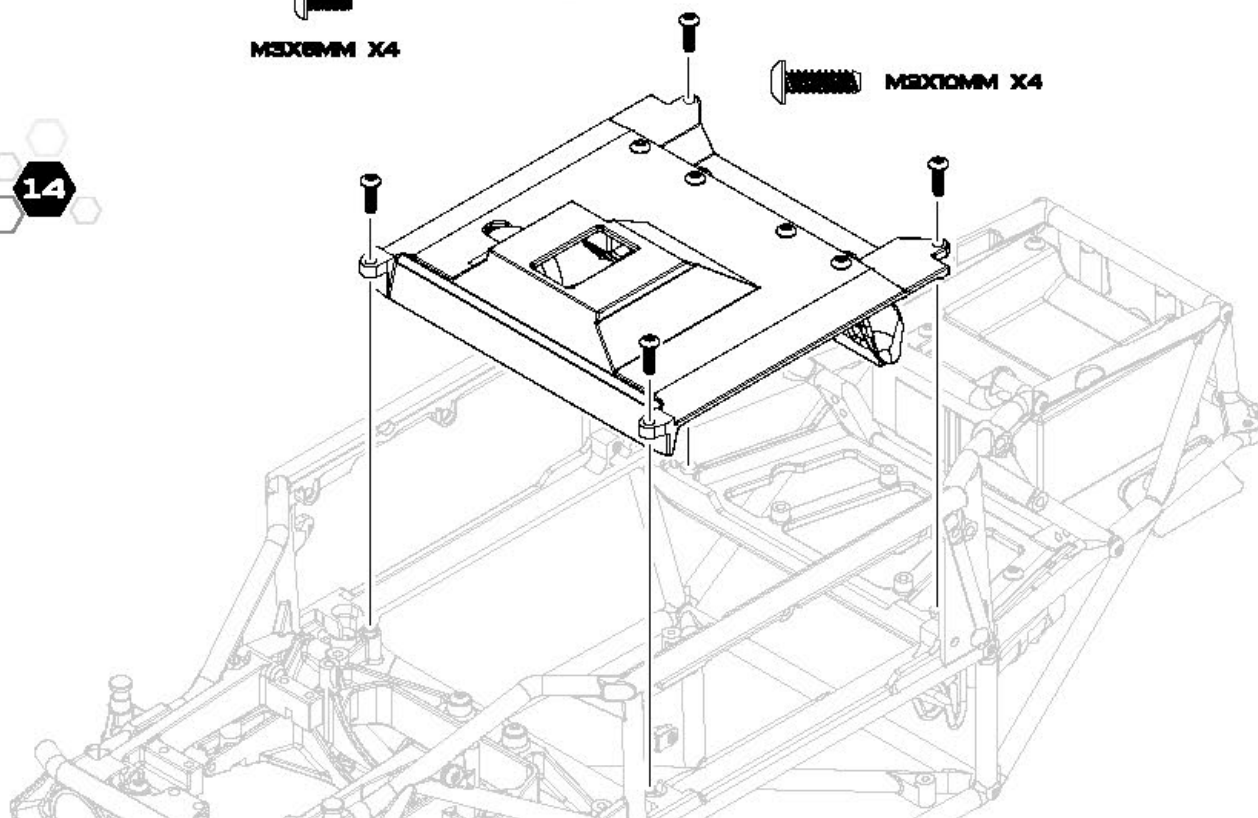
12



13



14



■ CAGE MAIN ASSEMBLY

16


M3X16MM X2

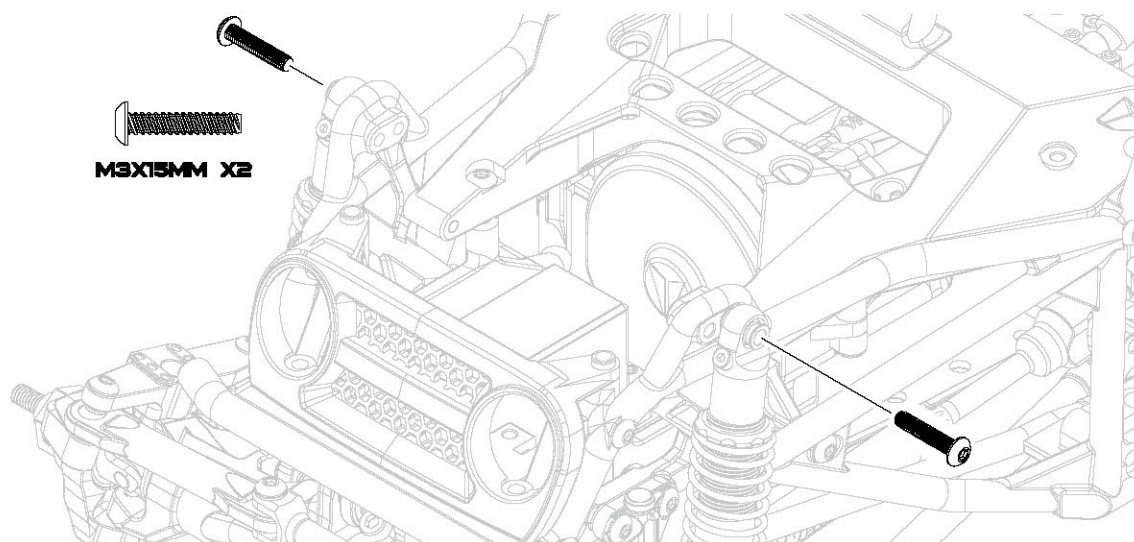

M3X16MM X2

16

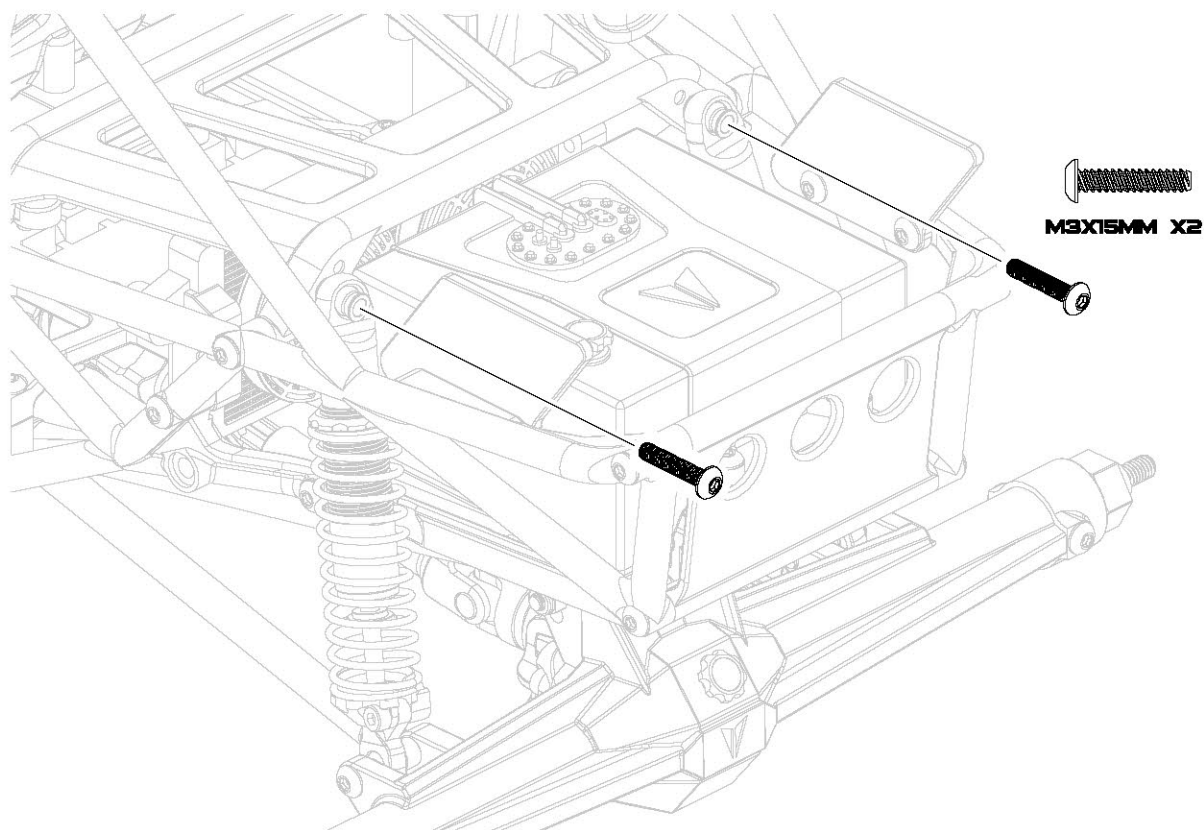

M3X16MM X2

■ CAGE MAIN ASSEMBLY

17

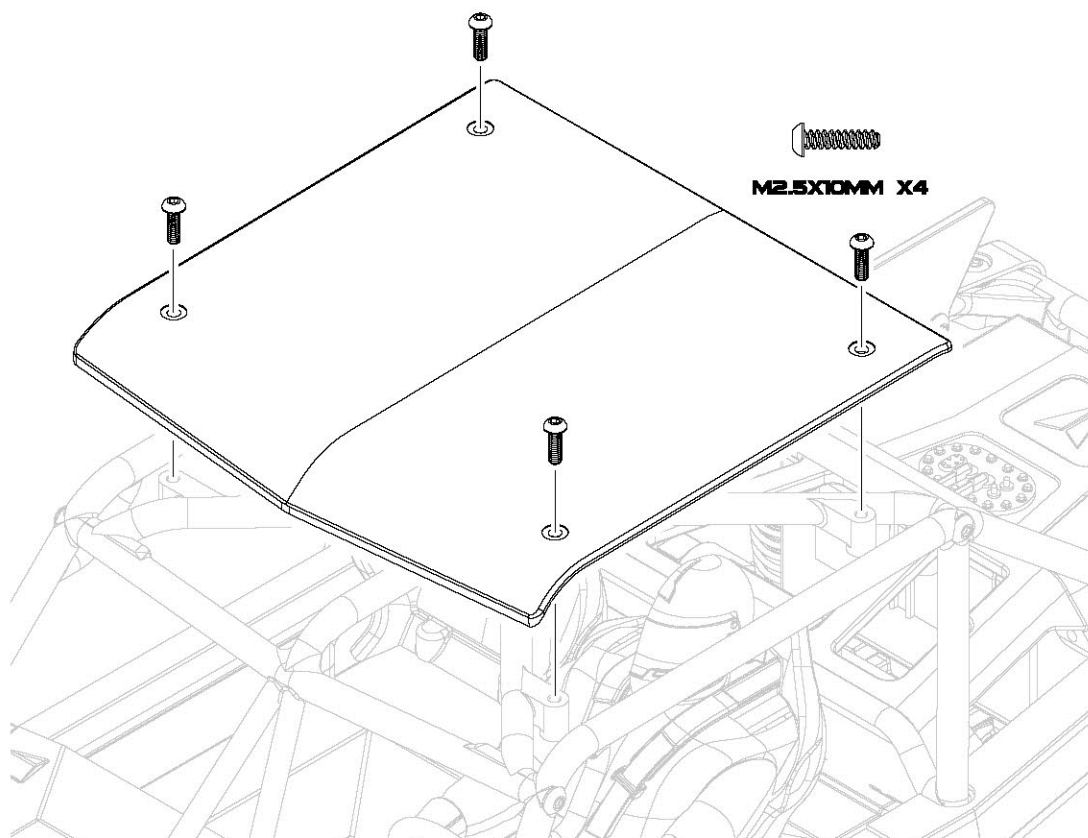


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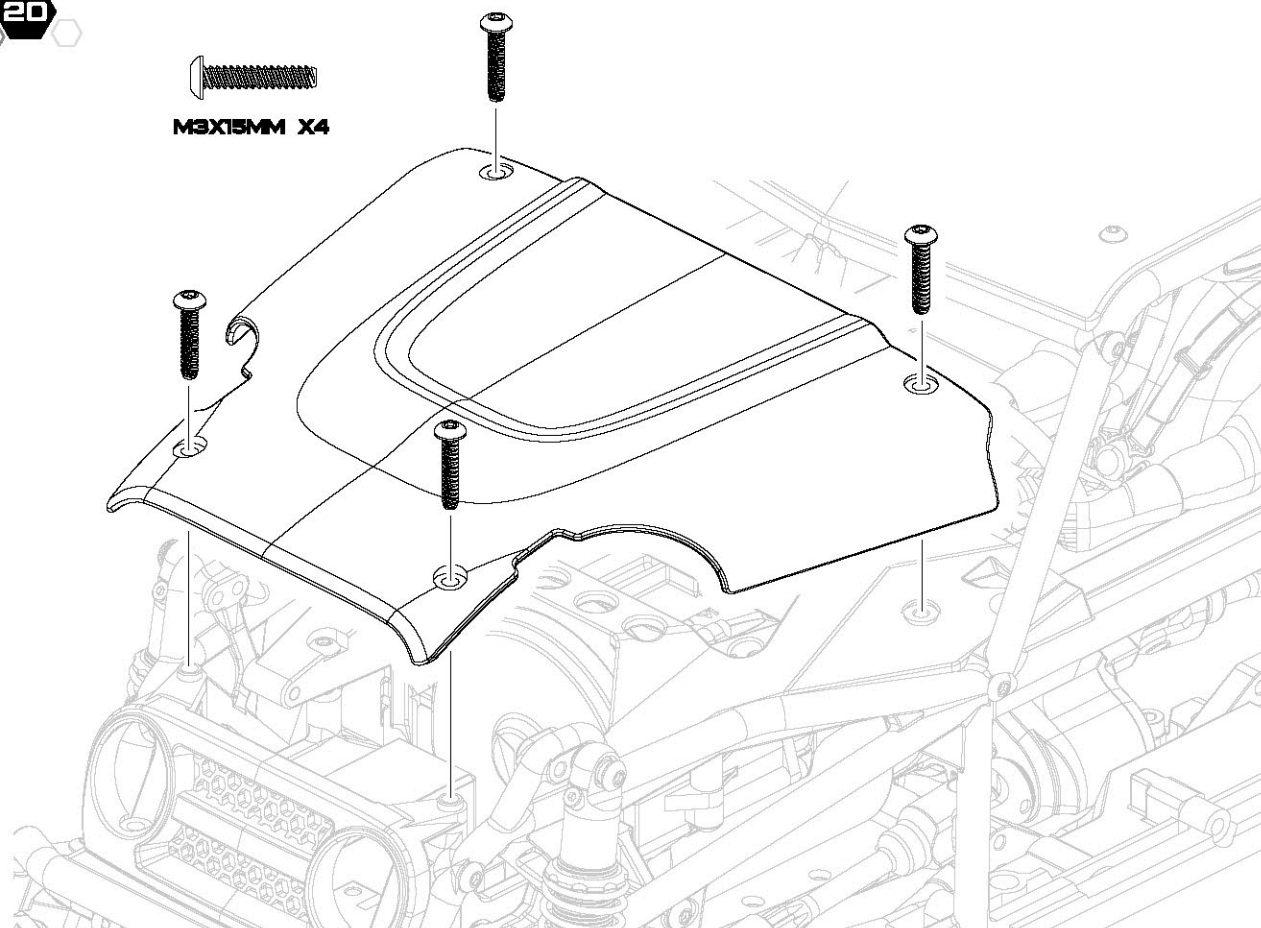


■ CAGE MAIN ASSEMBLY

19

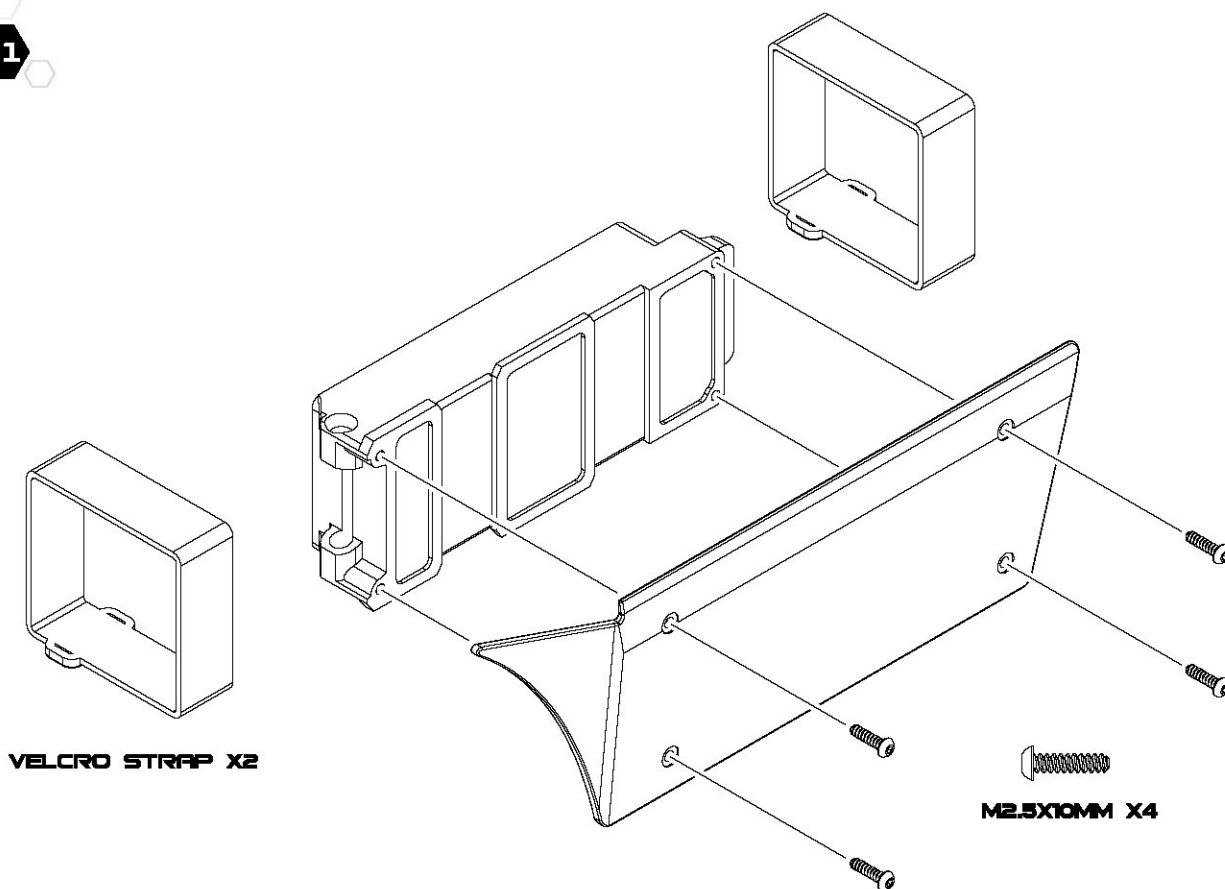


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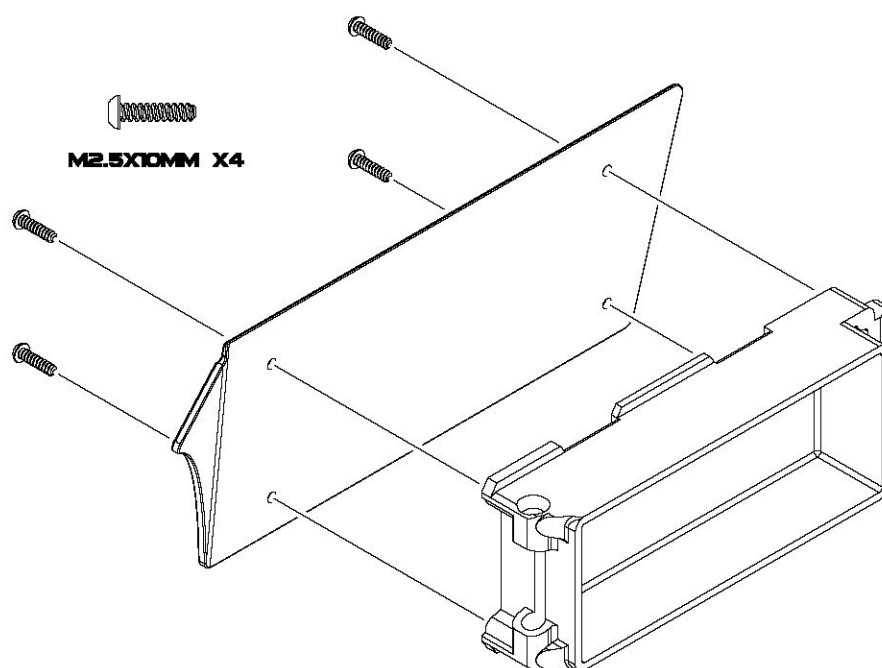


■ CAGE MAIN ASSEMBLY

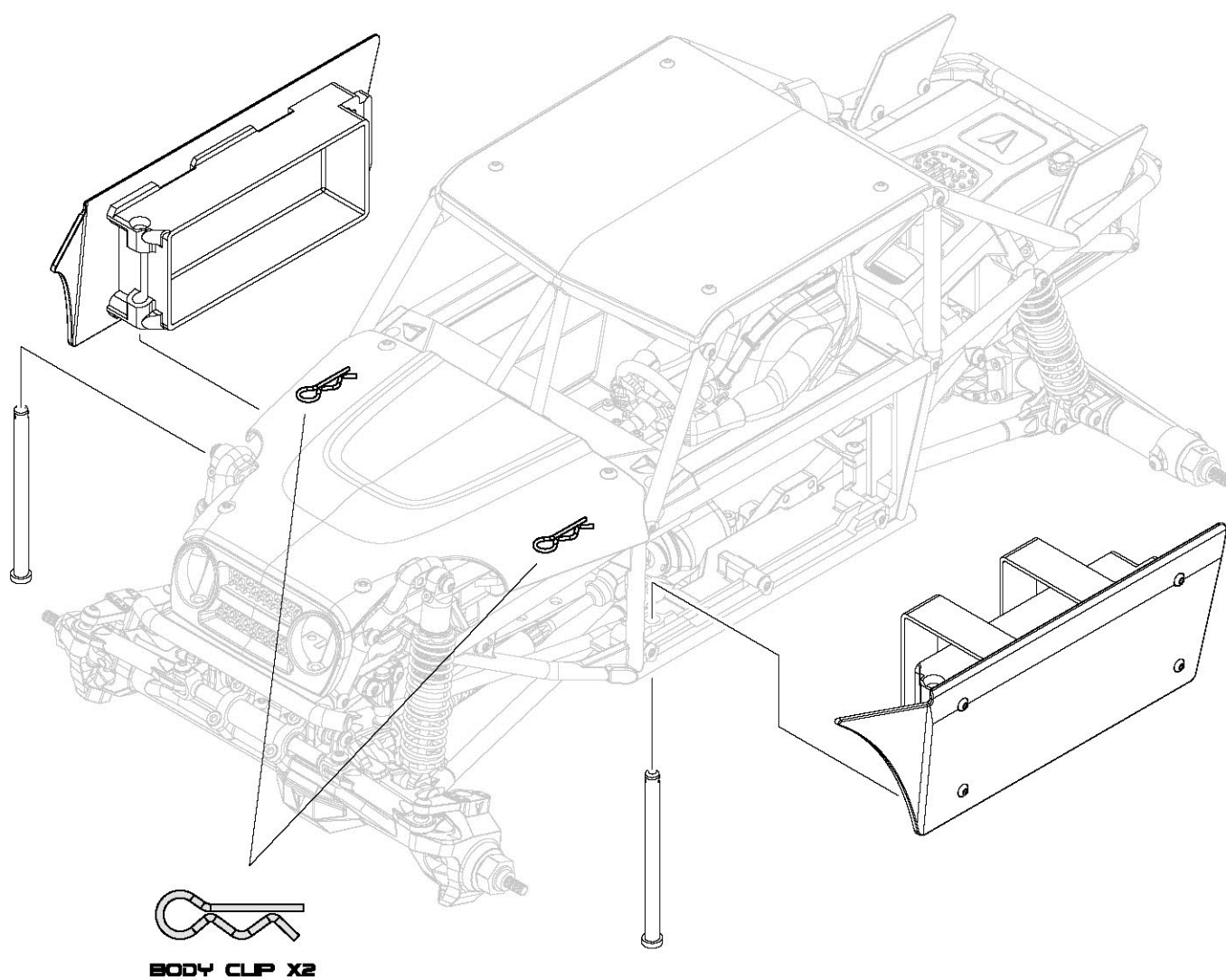
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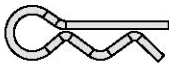


22



■ CAGE MAIN ASSEMBLY




BODY CLIP X2

PARTS LIST

IRC00013	PRO ROD ENDS WITH PIVOT BALLS (12)	VPS02420	SINTERED SERVO HORN 25T 20MM
IRC00140	4MM FLANGED WHEEL LOCK NUTS	VPS08070	6 HOLE SPOOL / LOCKER
IRC00192	H10 HYDRO STEERING SET	VPS08330	30T/8T HYPOID GEAR SET
IRC00193	H10 HYDRO VDI UNIVERSAL AXLE SHAFT SET	VPS08606	F10 AXLE COMPONENTS
IRC00230	ISD10 DRIVESHAFT SET	VPS08804	H10 HYDRO FRONT AXLE HOUSING
IRC00231	ISD10 REPLACEMENT PARTS TREE	VPS08805	H10 REAR AXLE HOUSING
IRC002633	15T 32P PINION	VPS08806	H10 HYDRO AXLE COMPONENTS
IRC00271	INCISION KINGPIN SHOULDER SCREWS (4)	VPS08807	H10 REAR AXLE SHAFTS
IRC00272	M4 SCREW SHAFT (10)	VPS08808	H10 HYDRO MOLDED LINK SET
IRC00273	BODY PINS (10)	VPS10110	VANQUISH VELCRO STRAP
IRC00275	WASHER HEAD SCREW (4)	VPS10125	VFD SKID PLATE SET
IRC00290	INCISION 12MM LOCKING HEX BLACK ANODIZED	VPS10142	30T BEARING PLATE SET
IRC00307	H10 SUSPENSION LINK SET	VPS10143	VFD TRANSMISSION SHAFT SET
IRC00402	56T SPUR GEAR	VPS10144	VFD TRANSMISSION HOUSING SET
IRC00501	S8E 90MM SHOCK SET	VPS10147	VFD SINTERED GEAR SET
IRC00502	S8E SHOCK MOLDED COMPONENTS	VPS10148	VS4-10 VFD MACHINED MOTOR PLATE
IRC00506	S8E 90MM SHOCK SHAFT	VPS10151	VS4-10 VFD ALUMINUM TRANS POST
IRC00507	S8E SHOCK REBUILD KIT	VPS10152	VFD TRANSMISSION KIT
IRC00508	E-2 CLIP	VPS10207	E-5 CLIP
IRC00509	S8E UPPER AND LOWER SHOCK PIVOT BALL SET	VPS10209	VFD LOCKOUT TOPSHAFT SET
IRC00521	S8E 90MM SHOCK BODY HARD ANODIZED	VPS10500	ROCK BUGGY CAGE MAIN SIDES - BLACK
VPH112210	M2.5X10MM COARSE THREAD BUTTON HEAD	VPS10504	H10 CAGE COMPONENTS SET 1 - BLACK
VPH112310	M3X10MM COARSE THREAD BUTTON HEAD	VPS10508	H10 BATTERY TRAY AND FUEL CELL SET - BLACK
VPH112315	M3X15MM COARSE THREAD BUTTON HEAD	VPS10515	H10 INTERIOR AND DRIVER FIGURE - BLACK
VPH112325	M3X25MM COARSE THREAD BUTTON HEAD	VPS10516	H10 CAGE COMPONENT SET 2 - BLACK

OPTION PARTS

IRC00220	INCISION STEEL DRIVESHAFT SET	VPS10102	VXT2 1.9 TIRES
IRC00260	12T 32P PINION	VPS10103	FALKEN WILDPEAK M/T 1.9 TIRES
IRC00261	13T 32P PINION	VPS10105	YOKOHAMA GEOLANDAR MT 4.75" RED COMPOUND
IRC00262	14T 32P PINION	VPS10141	VFD MACHINED GEAR SET
IRC00264	16T 32P PINION	VPS10145	VFD LIGHTWEIGHT MACHINED TRANSFER CASE GEAR SET
IRC00265	17T 32P PINION	VPS10146	VFD 21% OVERDRIVE TRANSFER CASE GEAR SET
IRC00292	BRASS 12MM HEX	VPS10149	VFD LIGHT WEIGHT ALUMINUM MOTORPLATE
IRC00511	S8E TINI 90MM SHOCK SHAFT	VPS10153	VFD LIGHTWEIGHT MACHINED FRONT GEAR SET
IRC00513	S8E 90MM SPRING SET	VPS10200	VFD TWIN TRANSMISSION KIT
IRC00514	S8E MACHINED SHOCK CAP Black	VPS10208	VFD SLIPPER SET
IRC00515	S8E MACHINED SHOCK CAP Orange	VPS10306	VTS STANCE 4.75" DUAL STAGE FOAM
IRC00516	S8E MACHINED SHOCK CAP Blue	VPS10413	1.9 SINTERED 0.8" WHEEL CLAMP RING
IRC00517	S8E MACHINED Spring COLLAR SET Black	VPS10501	ROCK BUGGY CAGE MAIN SIDES - GREY
IRC00518	S8E MACHINED Spring COLLAR SET Orange	VPS10505	H10 CAGE COMPONENTS SET 1- GREY
IRC00519	S8E MACHINED Spring COLLAR SET Blue	VPS10509	H10 OPTIC BODY PANEL SET - BLACK
IRC00522	S8E MACHINED PISTON SET	VPS10510	H10 OPTIC BODY PANEL SET - REFLEX BLUE
IRC00523	SHOCK TUNING ROD ENDS	VPS10511	H10 OPTIC BODY PANEL SET - EIBACH LIVERY RED
IRC00530	KMC KM237 RIOT BEADLOCK	VPS10512	H10 OPTIC BODY PANEL SET - TTMS LIVERY TEAL
VPS01360	VFD HURTZ DIG BLACK	VPS10513	H10 OPTIC BODY PANEL SET - BATTLE BORN LIVERY YELLOW
VPS01361	VFD HURTZ DIG CLEAR	VPS10514	H10 OPTIC BODY PANEL SET - VANQUISH PRODUCTS LIVERY ORANGE
VPS02412	STEERING CLAMPING 25T SERVO HORN - 20MM	VPS10517	H10 CAGE COMPONENT SET 2 - GREY
VPS05253	1.9 BRASS 0.8" WHEEL CLAMP RINGS (PAIR)	VPS10522	H10 OPTIC OPTIONAL SLOT GRILL - RED
VPS07080	12MM HEX CLEAR ANODIZED	VPS10523	H10 OPTIC OPTIONAL SLOT GRILL - TEAL
VPS07082	12MM HEX BLACK ANODIZED	VPS10524	H10 OPTIC OPTIONAL SLOT GRILL - YELLOW
VPS08331	33T/8T UNDERDRIVE HYPOID GEAR SET	VPS10525	H10 OPTIC OPTIONAL SLOT GRILL - ORANGE
VPS08623	F10 FRONT AXLE THIRD MEMBER - BLACK	VPS10526	H10 OPTIC BODY PANEL SET - VANQUISH PRODUCTS LIVERY GREY
VPS08624	F10 FRONT AXLE THIRD MEMBER - CLEAR	VPS10527	H10 OPTIC BODY PANEL SET - HUF LIVERY GREEN
VPS08625	F10 REAR AXLE THIRD MEMBER - BLACK	VPS10528	H10 OPTIC OPTIONAL SLOT GRILL - GREY
VPS08626	F10 REAR AXLE THIRD MEMBER - CLEAR	VPS10529	H10 OPTIC OPTIONAL SLOT GRILL - GREEN
		VPS20002	VR1 4CH RECEIVER

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

NOTE:

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