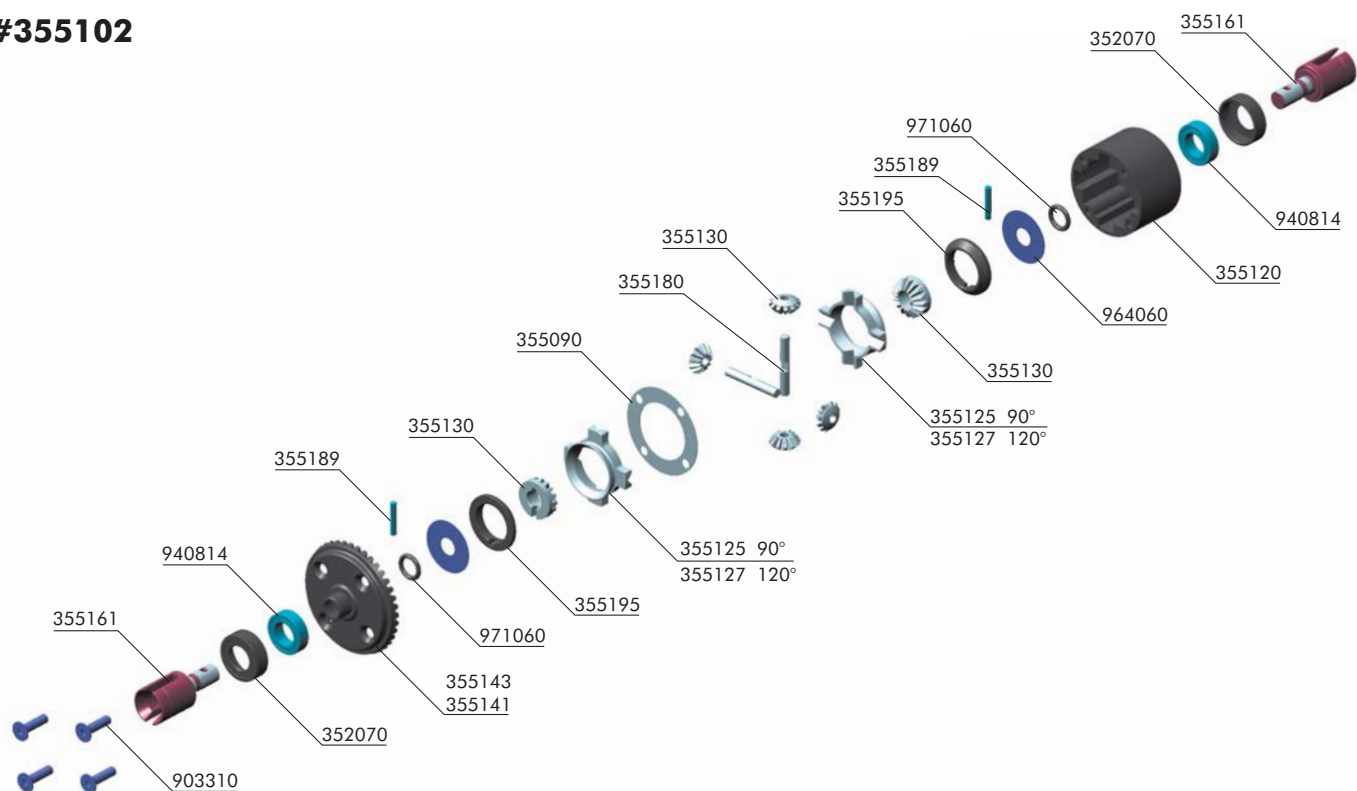
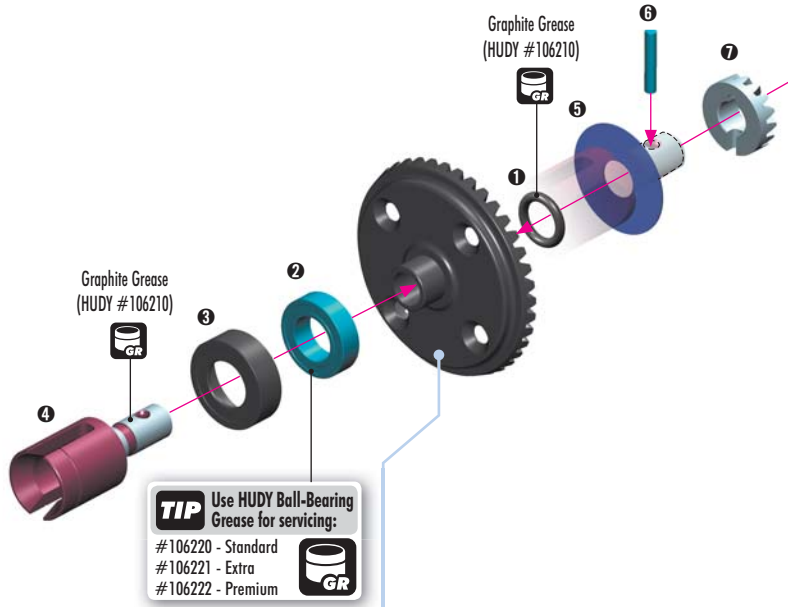


**808 ACTIVE DIFF™**

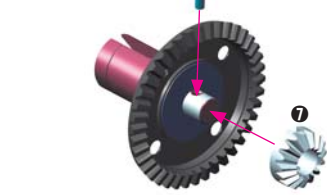
#355102



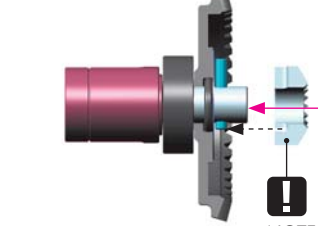
35 5102	XRAY XB808 ACTIVE DIFF	35 5180	DIFF PIN (2)
35 2070	XB808 COMPOSITE BEARING HUB FOR DIFF (4)	35 5189	ACTIVE DIFF PIN 2x12 (2)
35 5090	DIFF GASKET (4)	35 5195	ACTIVE DIFF SPUR GEAR COLLAR (2)
35 5120	ACTIVE DIFF CASE		
35 5125	ACTIVE DIFF SEGMENT 90° (2)	90 3310	HEX SCREW SFH M3x10 (10)
35 5127	ACTIVE DIFF SEGMENT 120° (2) (OPTION)	94 0814	HIGH-SPEED BALL-BEARING 8x14x5 RUBBER SEALED (2)
35 5130	ACTIVE DIFF STEEL BEVEL & SATELLITE GEARS (2+4)	96 4060	WASHER S 6x18x0.2 (10)
35 5141	ACTIVE DIFF DIFF LARGE BEVEL GEAR 41T (XB808 OPTION)	97 1060	SILICONE O-RING 6x1.5 (10)
35 5143	ACTIVE DIFF DIFF LARGE BEVEL GEAR 43T (XB808 STANDARD)		
35 5161	XB808 ACTIVE DIFF OUTDRIVE ADAPTER - HUDY SPRING STEEL (2)		



STEP 6 7 DETAIL

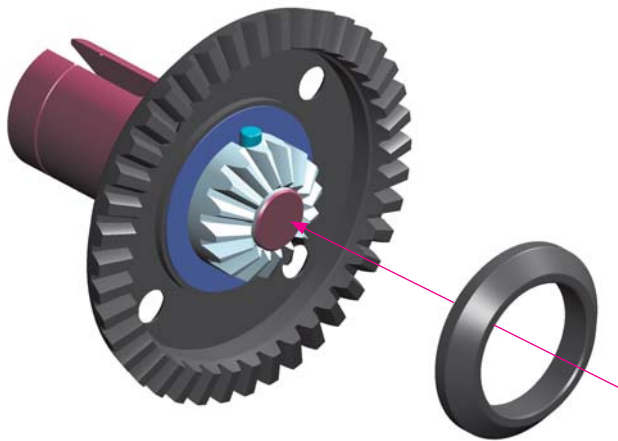


STEP 7 DETAIL

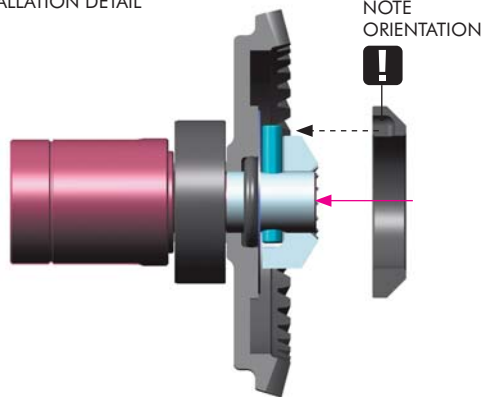


NOTE  
ORIENTATION

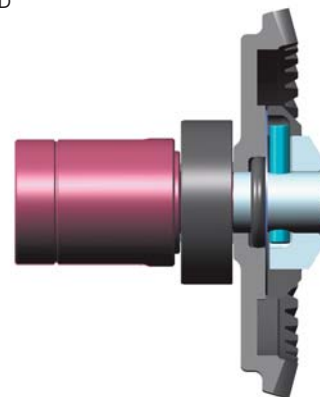
	#355143	<b>808 STANDARD</b>	Standard gear recommended for tracks with good grip.
	#355141	<b>808 OPTION</b>	Optional gear recommended for slippery tracks. Increases stability but introduces slight amount of on-power understeer.



INSTALLATION DETAIL



INSTALLED



940814  
BB 8x14x5



964060  
5 6x18x0.2



971060  
O 6x1.5



355189  
P 2x12

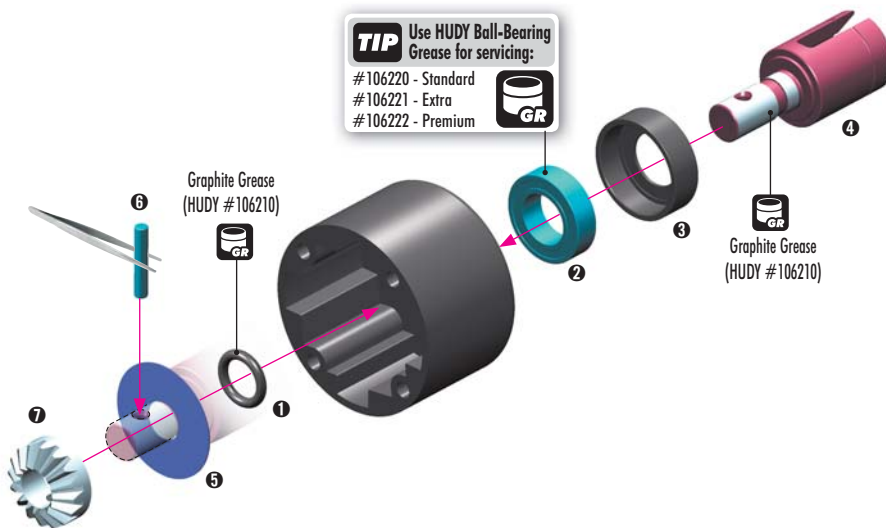
**TIP** Use HUDY Ball-Bearing Grease for servicing:  
#106220 - Standard  
#106221 - Extra  
#106222 - Premium



Graphite Grease  
(HUDY #106210)

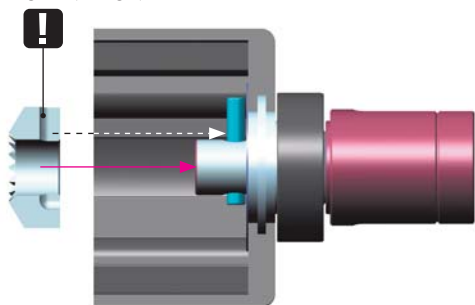


Graphite Grease  
(HUDY #106210)

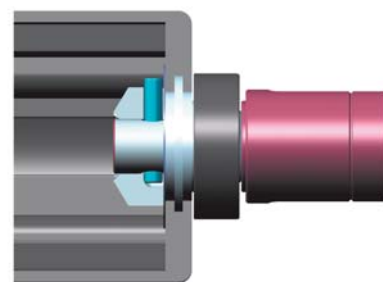


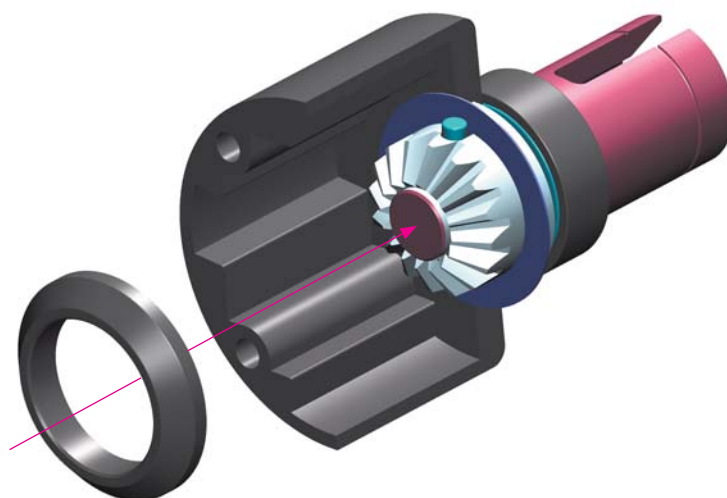
NOTE ORIENTATION

STEP 7 DETAIL



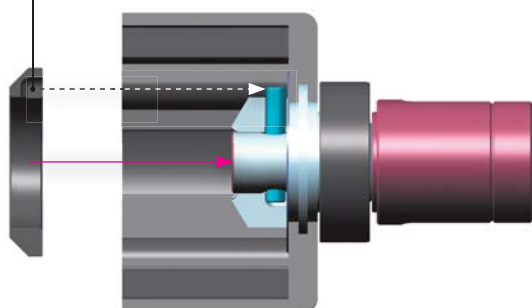
INSTALLED



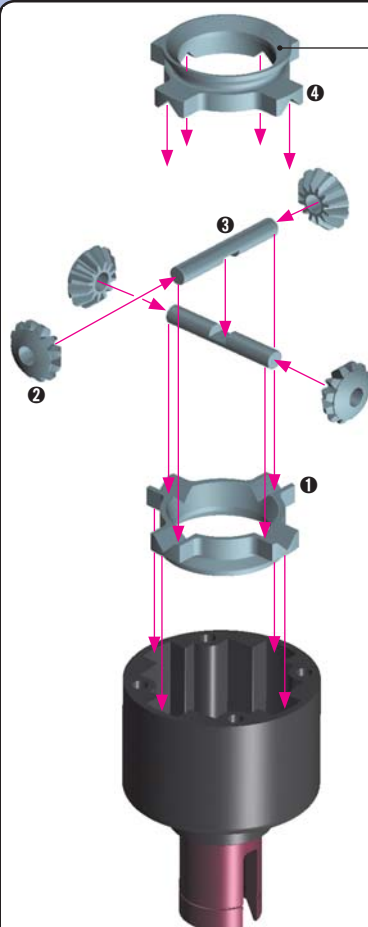
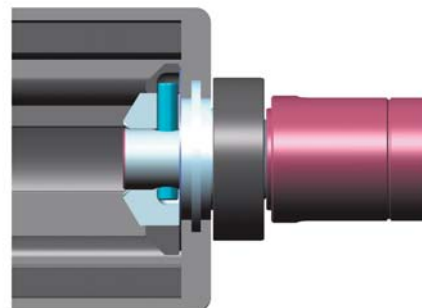




**!** NOTE  
ORIENTATION

INSTALLATION DETAIL



INSTALLED



SEGMENT	DESCRIPTION	WHEN TO USE
 <b>90°</b>	The standard 90° segment provides a very good balance of performance between on- and off-power. On-power the diff becomes hard after a brief delay. Off-power the diff becomes free after a brief delay.	Suggested to use for high grip and/or bumpy track.
 <b>120°</b>	The optional 120° segment gives more immediate response both on- and off-power. On-power the diff becomes very hard immediately (no delay). Off-power the diff becomes free immediately (no delay).	Suggested to use for slippery and/or flat track.

## XRAY PREMIUM SILICONE OILS

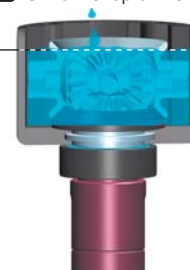
FOR SLIPPERY TRACK	FOR NORMAL GRIP	FOR HIGH GRIP TRACK
<b>3.000 to 5.000</b>	<b>7.000</b>	<b>10.000 to 30.000</b>
#359301 - 1.000 cSt	#359307 - 7.000 cSt	#359310 - 10.000 cSt
#359302 - 2.000 cSt		#359320 - 20.000 cSt
#359303 - 3.000 cSt		#359330 - 30.000 cSt
#359305 - 5.000 cSt		

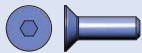
ASSEMBLED



OIL FILLING

 Fill in the XRAY Premium Silicone Oil to the top of the segment





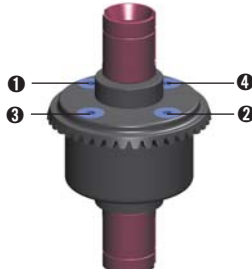
903310  
SFH M3x10



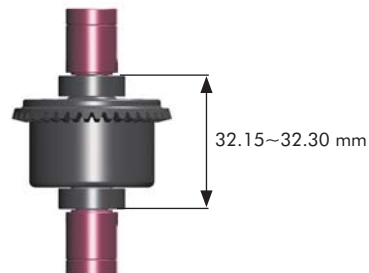
Tight the screws equally



Finish tightening in this order



After assembly the differential should have a length of 32.15~32.30mm measured from the ends of the installed ball-bearings. If differentials are longer, retighten the 4 screws holding the crown gear.



## GEAR MESH ADJUSTMENT

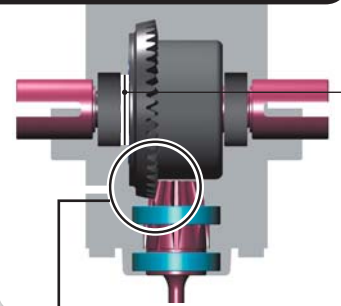
In the event that the diff has too tight or too loose gear mesh between the diff spur gear and the pinion drive gear, this is easily resolved by inserting 1 or 2 thin shims behind a diff outdrive ball-bearing, depending on how much play there is.

THE LOCATION OF THE SHIM(S) DEPENDS ON WHETHER YOU ARE TRYING TO CLOSE OR OPEN THE GAP.

Note that to install the shim(s) you must disassemble the diff, install the shim(s), reassemble the diff, and check the gear mesh again.

### TO CLOSE A WIDE GAP

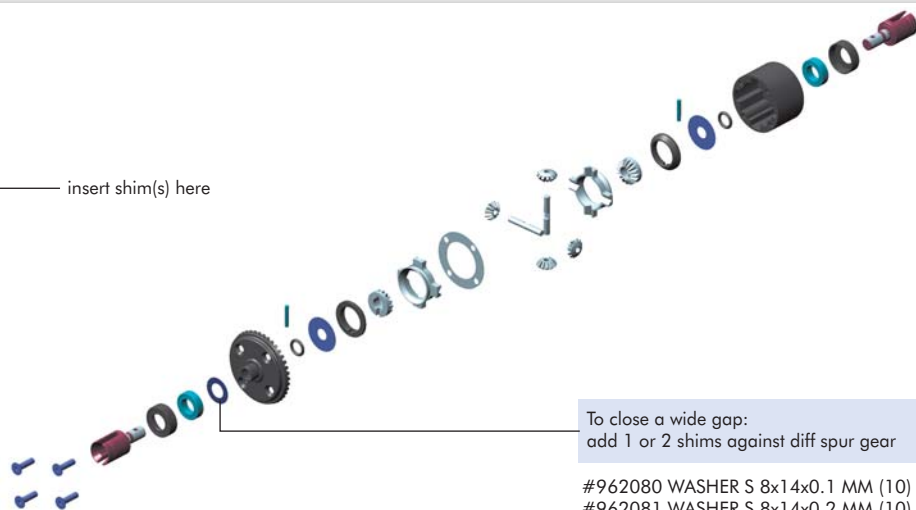
#### TO CLOSE A WIDE GAP



insert shim(s) here



CLOSE A  
WIDE GAP

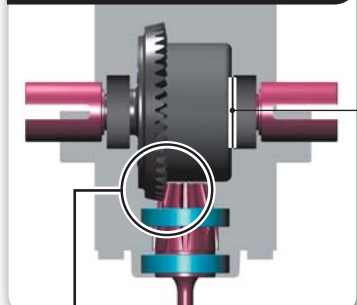


To close a wide gap:  
add 1 or 2 shims against diff spur gear

#962080 WASHER S 8x14x0.1 MM (10)  
#962081 WASHER S 8x14x0.2 MM (10)

### TO OPEN A NARROW GAP

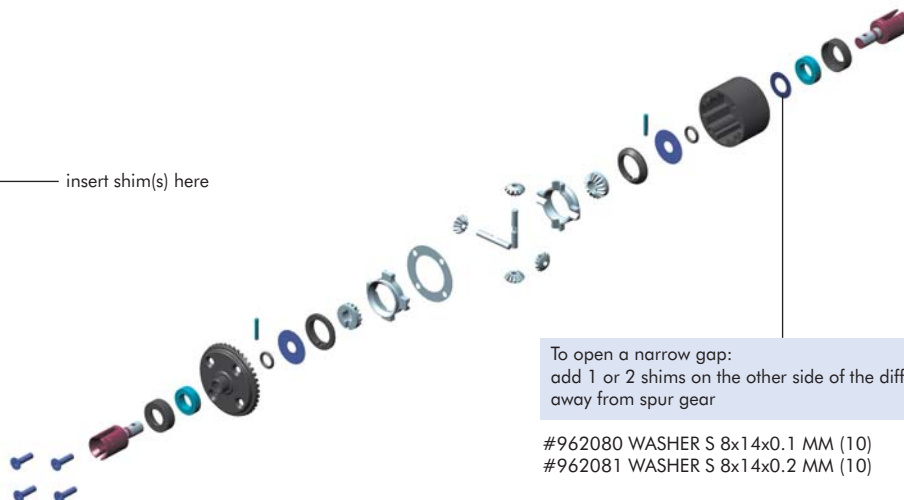
#### TO OPEN A NARROW GAP



insert shim(s) here



OPEN A  
NARROW GAP



To open a narrow gap:  
add 1 or 2 shims on the other side of the diff,  
away from spur gear

#962080 WASHER S 8x14x0.1 MM (10)  
#962081 WASHER S 8x14x0.2 MM (10)