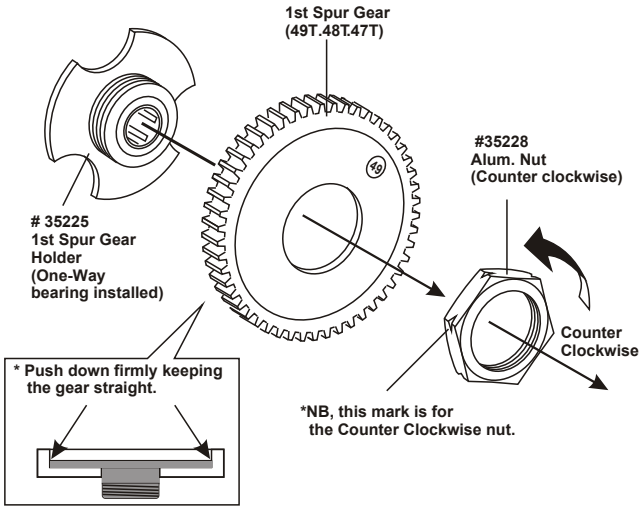
INSTRUCTIONS #35011 1/8 SCALE 2-SPEED TRANSMISSION SET (Shoes Type)

**** This professional two speed transmission is only for ULTRA GT series and ULTRA GTP series kits.***

❶ OFNA RACING INSTALLATION SHEETS

#35011 1/8 SCALE 2-SPEED TRANSMISSION SET (Shoes Type)



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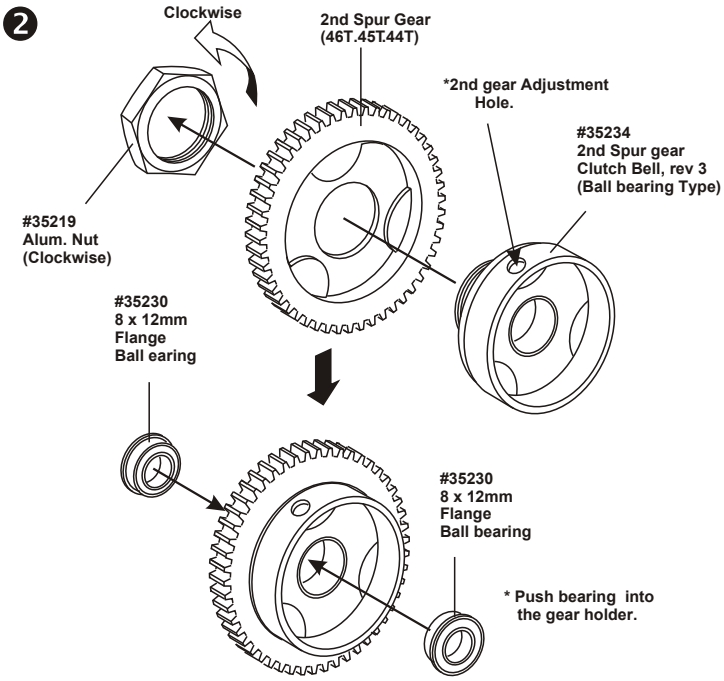

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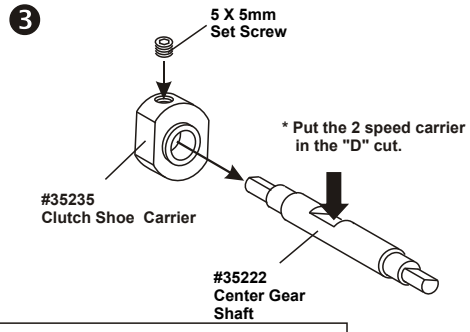
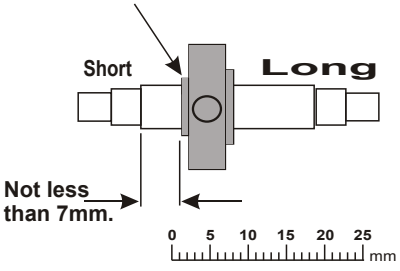


*** Note: Put the small ring on the short side.**



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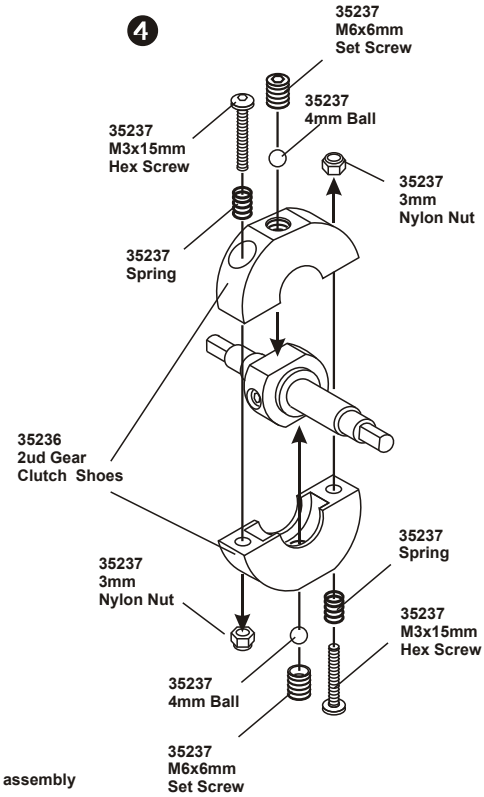
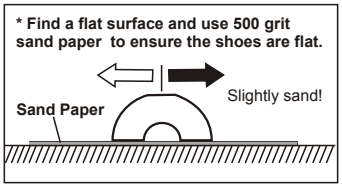
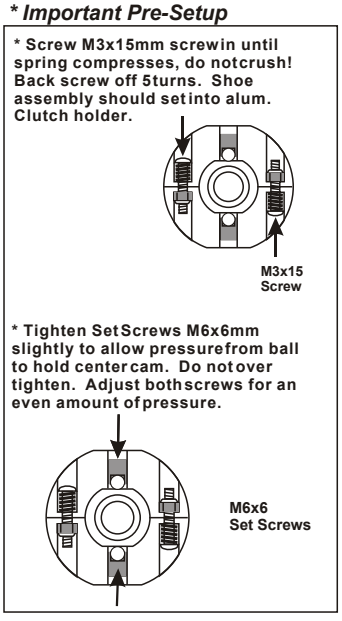




**** Important Pre-Setup***



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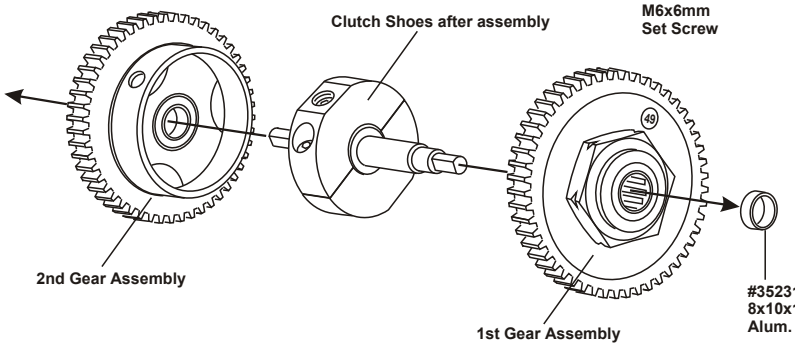
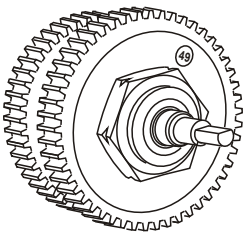
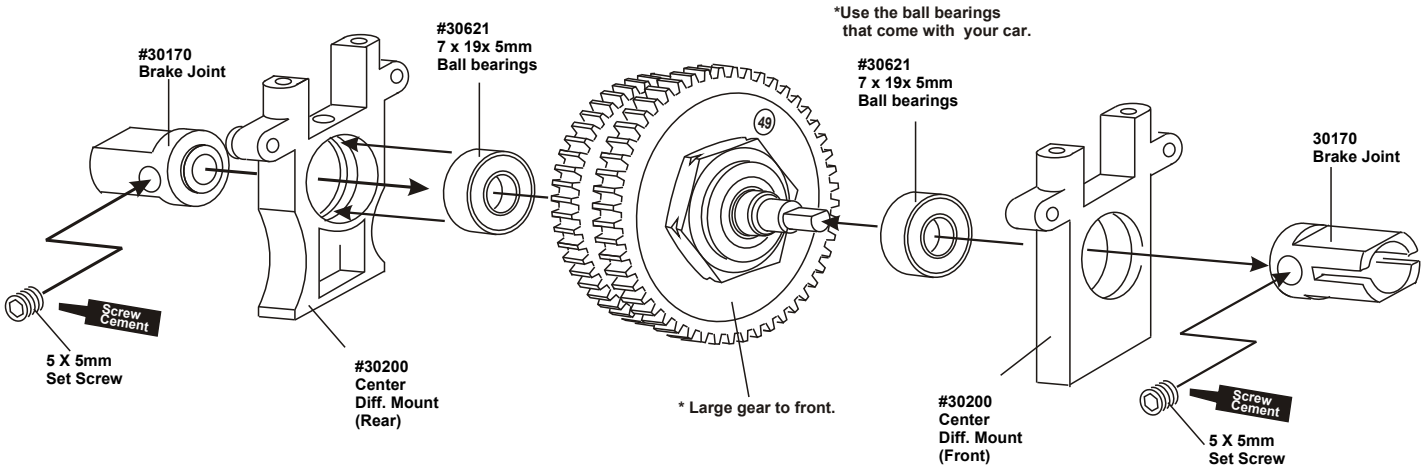


❻ 2 SPEED TRANSMISSION AFTER ASSEMBLY.



❼ ASSEMBLY OF THE 2 SPEED TRANSMISSION INTO CENTER MOUNT

(Use the parts that come with your kit.)



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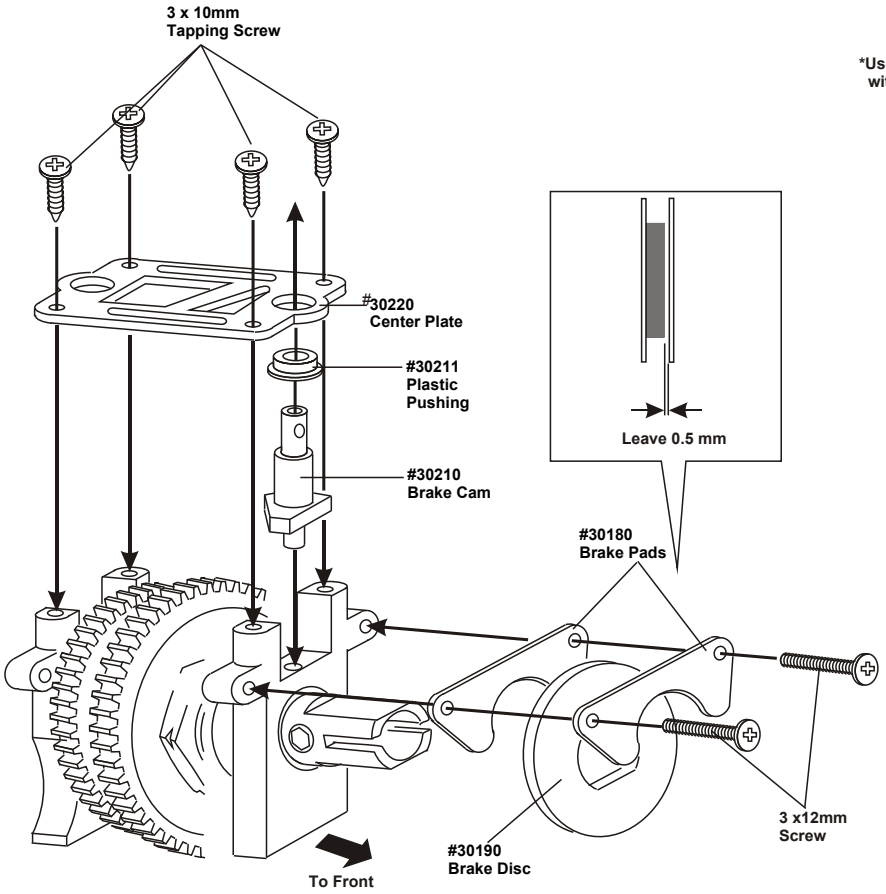

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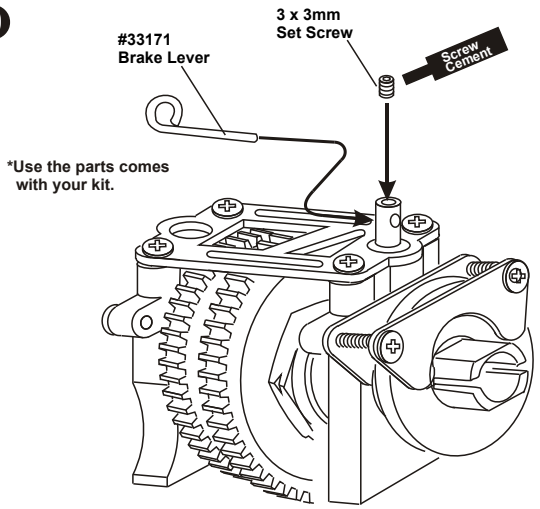
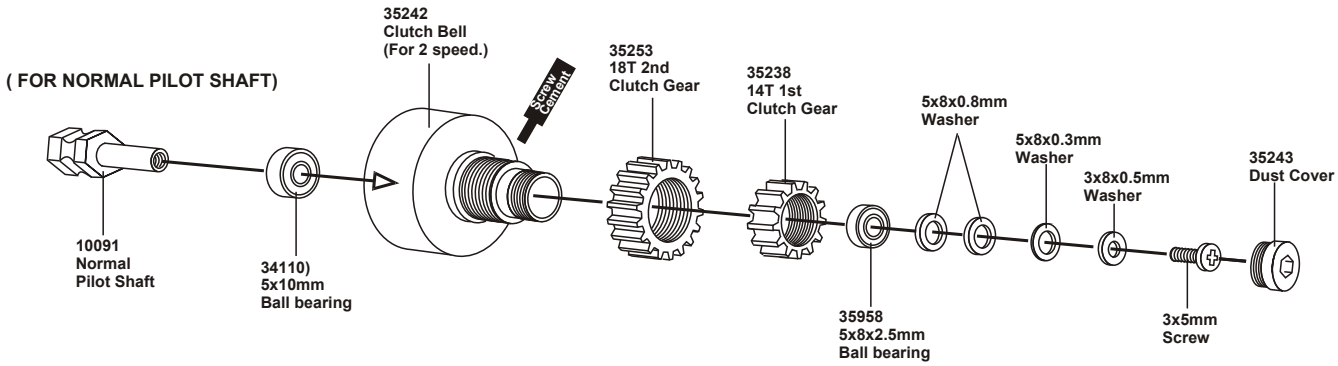
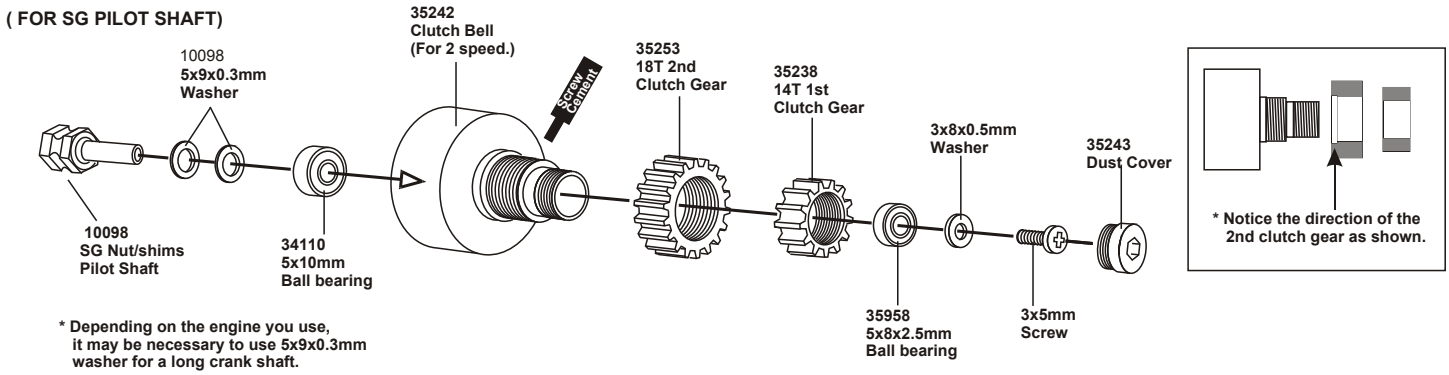


ASSEMBLY OF THE2 SPEED CLUTCH BELL





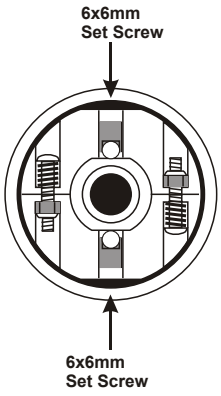
* Depending on the engine you use, it may be necessary to use 5x9x0.3mm washer for a long crank shaft.

ADJUSTING THE SHIFT POINT

*** Adjust the engine before adjusting the clutch shift timing. Adjust the engine as per engine instruction manual.**

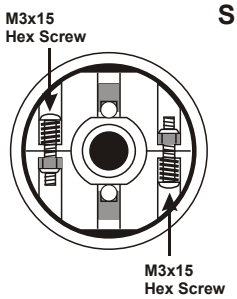
*** Use a 2mm and 2.5mm allen wrench to set the clutch shoes.**

* Two steps to adjust the shoes and shift timing.



AIR GAP SETTING

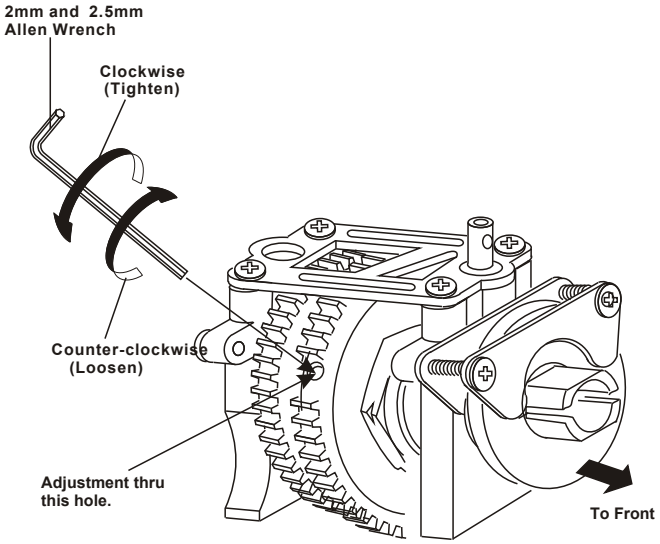
1. Use a 2.5 mm allen wrench to adjust shoe assembly air gap. Tighten Set Screws, M6x6mm, to adjust the air gap between the shoe assembly and clutch bell wall. Adjust both screws for an even amount of gap of about 1mm.



SHIFT TIMING SETTING

2. Use a 2mm allen wrench to adjust the shift timing. Turn, M3x15mm, screws IN until spring compresses, do not crush! Back off screw 5 turns, this is a good place to start.

When adjusting shift timing, always turn each screw the same number turns.



1. Once the engine adjustments have been completed, proceed to the adjustment of the clutch shift timing.
   (Using a 2mm allen wrench to adjust the clutch shoes.)

   Note:
   Clockwise--------Shift timing will become slower.
   Counter Clockwise---Shift timing will become quicker.

2. Adjust the clutch shift timing for your track conditions.
   As you tighten (Clockwise) the 3x15mm hex screw, the shift timing will become slower.
   As you loosen (Counter Clockwise) the 3x15mm hex screw, the shift timing will become quicker.

3. Set the shift timing to the track conditions while the car is running.

2 SPEED GEAR RATIO COMBINATIONS

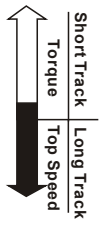
The #35011 2-speed transmission has a smooth gear change and less aggressive on the 2nd gear .
We offer many different pinion and spur gear combinations which can be used for different tracks.

IMPORTANT:
The sum of the spur gear and clutch gear for 1st gear must be equal the sum of the spur gear and clutch gear for 2nd gear be equal.

Example: 1st gear 45+13=58
2nd gear 41+17=58 **Must be equal**

(STANDARD)

SPUR GEAR	*CLUTCH GEAR (4 tooth difference)*			
49T/45T	13T/17T	14T/18T	15T/19T	16T/20T
48T/44T				
47T/43T				



2 SPEED OPTION PARTS

SPUR GEAR(1st):

USA Parts No.	Description	
No.35249	*49T Spur Gear*	*(STD)*
No.35248	48T Spur Gear	
No.35247	47T Spur Gear	

SPUR GEAR(2nd):

USA Parts No.	Description	
No.35246	46T Spur Gear	
No.35245	*45T Spur Gear*	*(STD)*
No.35244	44T Spur Gear	

CLUTCH GEAR:

USA Parts No.	Description	
No.35220	*13T/17T Gear*	*(STD)*
No.35232	14T/18T Gear	
No.35233	15T/19T Gear	

CLUTCH GEAR (1st):

USA Parts No.	Description	
35238	*14T Gear*	*(STD)*
35239	15T Gear	
35240	16T Gear	
35241	17T Gear	

CLUTCH GEAR (2nd):

USA Parts No.	Description	
35252	17T Gear	
35253	*18T Gear*	*(STD)*
35254	19T Gear	
35255	20T Gear	
35256	21T Gear	

2 SPEED SPARE PARTS

USA Parts No.	Description
35225	1st Spur Gear Holder
35228	Alum. Nut (Counter-Clockwise)
35230	8x12mm Flange Ball bearing
35222	Center Shaft
34110	5x10x4mm Ball bearing
35242	Clutch Bell Base
35249	49T Spur Gear (1st)
35245	45T Spur Gear(2nd)
35234	2nd Spur Gear Clutch Bell
35235	Clutch Shoe Carrier
35219	Alum. Nut (Clockwise)
35236	2nd Clutch Shoes
Misc Parts	Spring
	4mm Ball
35237	6x6mm Set Screw
	3x15mm Hex Screw
35231	8x10x1.5mm Alum. Ring
35243	Dust Cover, Steel

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