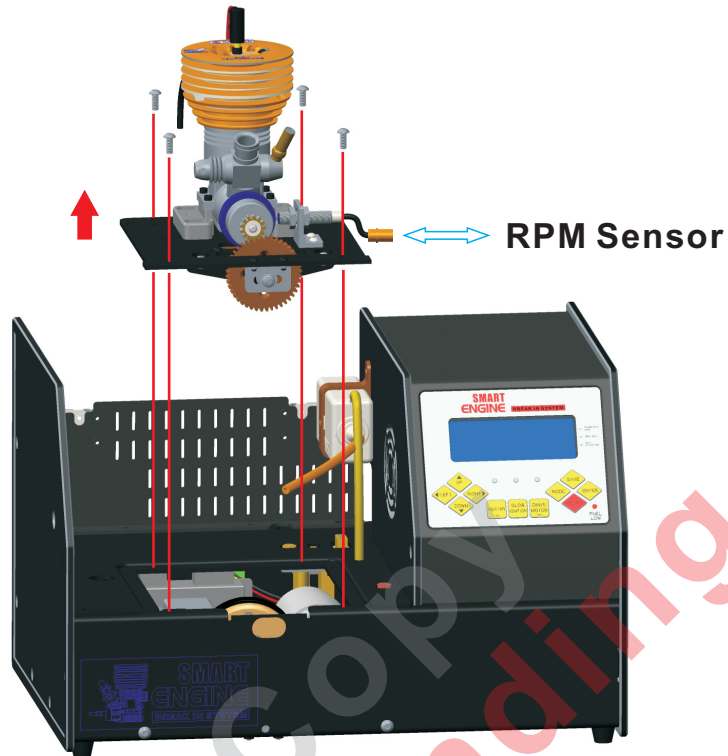


# Service Manual

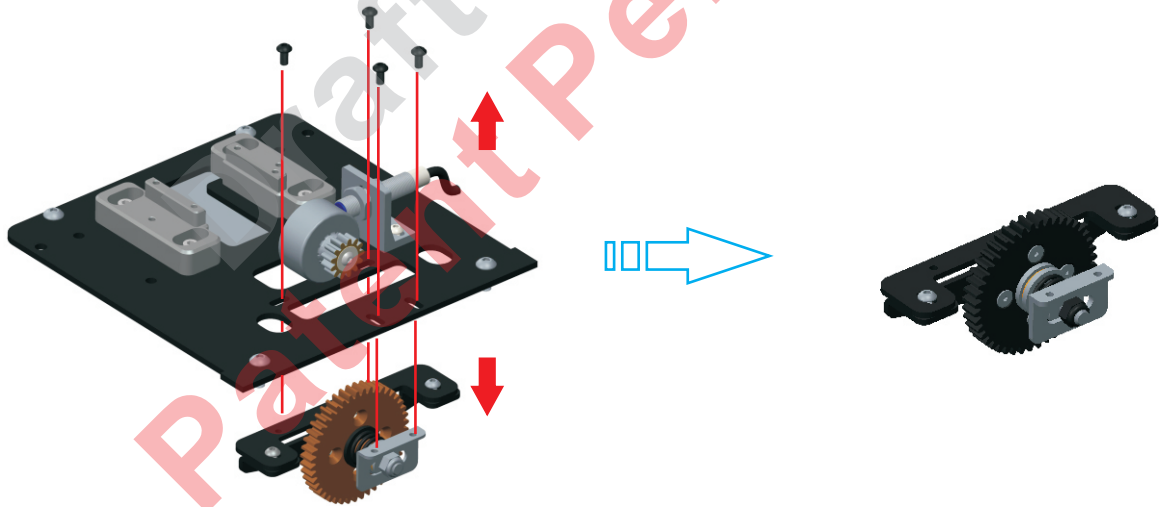


# Replace Slipper Clutch Pad and Thrust bearings

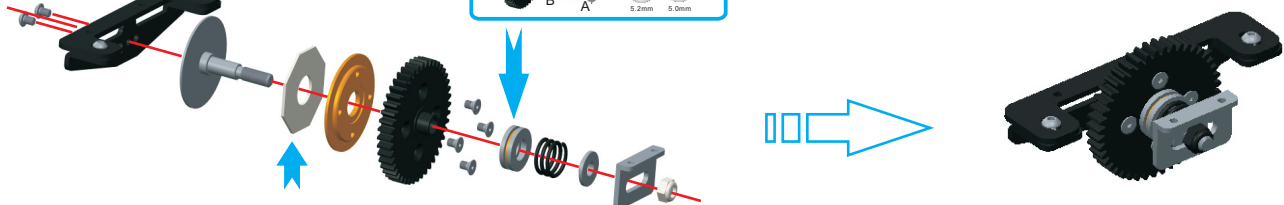
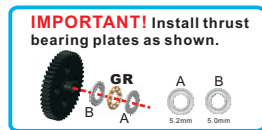
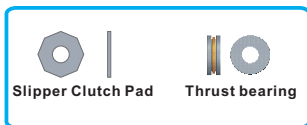
1. Disassemble Engine assembly and remove RPM Sensor .



2. Remove load module

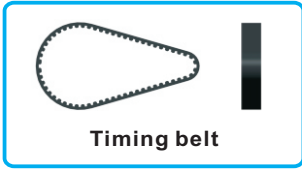


3. Remove load assemblies and replace Slipper Clutch Pad and Thrust bearing.

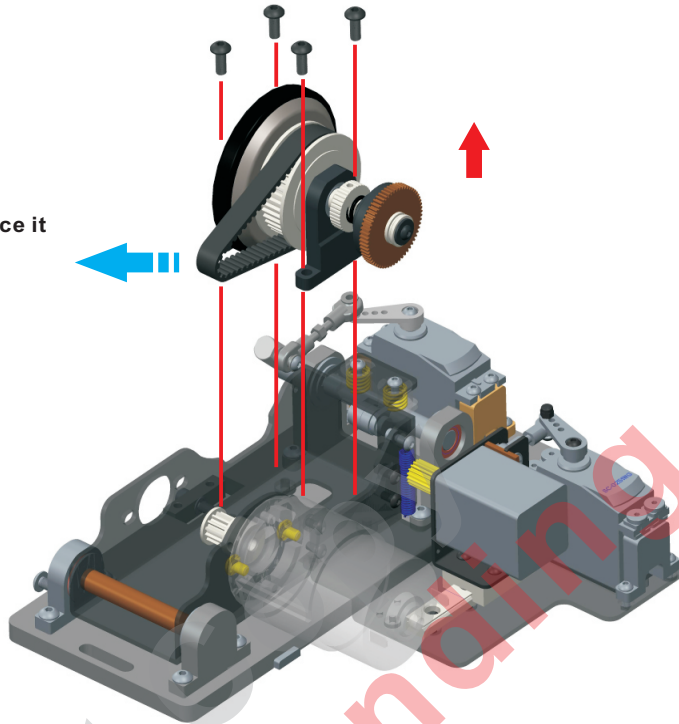


# Starter Block replacement parts

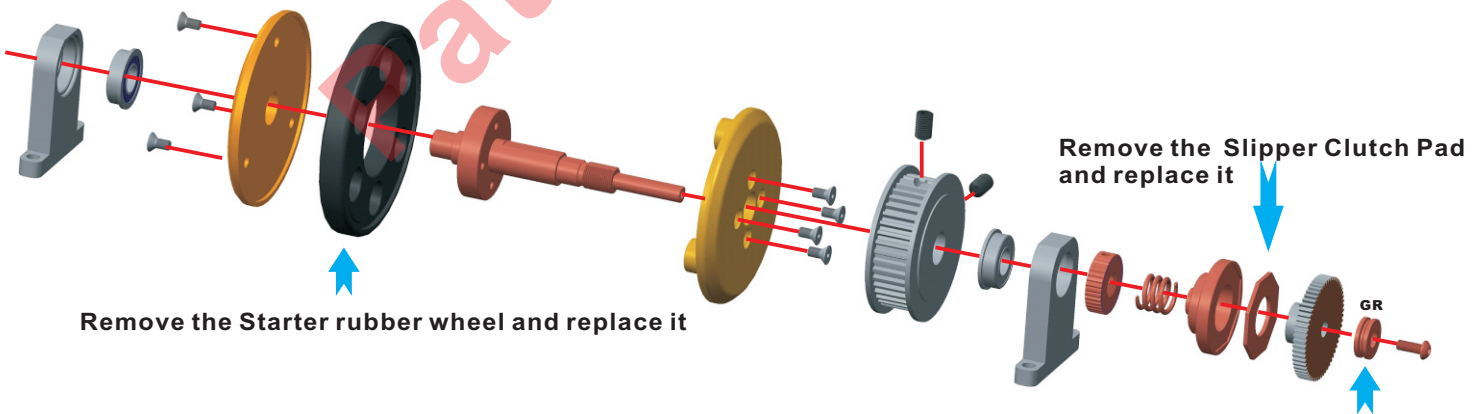
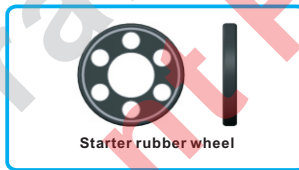
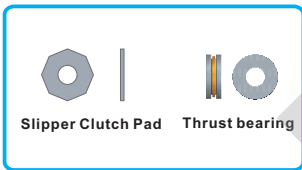
## 1. Starter block timing replacement .



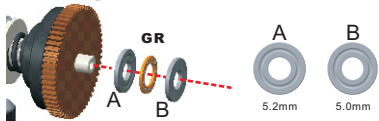
Remove the Timing belt and replace it



## 2. Removal Slipper Clutch Pad and Thrust bearing.



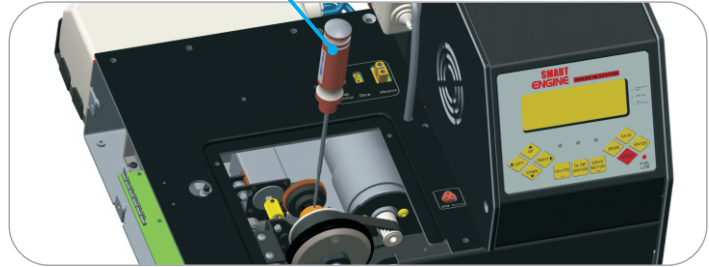
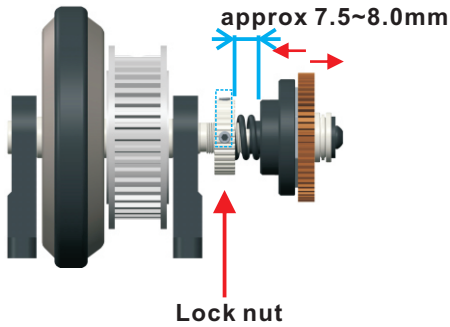
**IMPORTANT!** Install thrust bearing plates as shown.



# Adjust TDC unit Torque

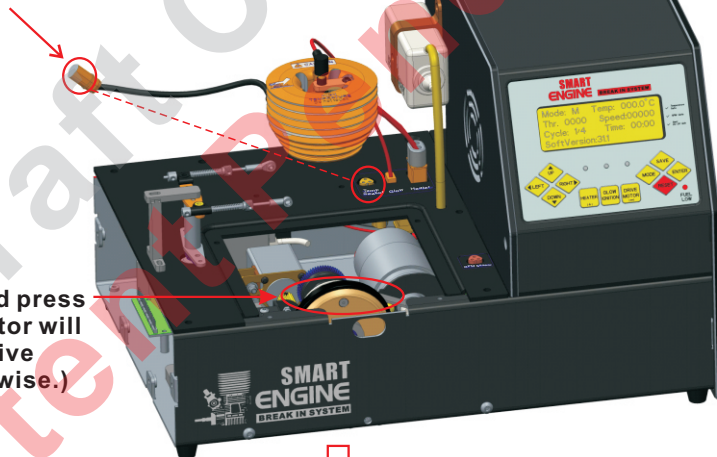
## 1. Adjust the Spacing 7.5-8.0mm

- A、 Release the set screw
- B、 Adjust the space by the lock nut
- C、 Tighten the set screw



## 2: Adjust the Torque

- A. Unplug the temperature sensor




- B. Hold the starter rubber wheel and press Enter key.  (The stepping motor will engage with starter block and drive clockwise continue to anti-clockwise.)

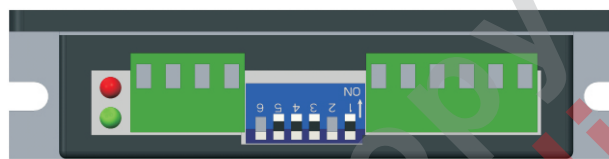
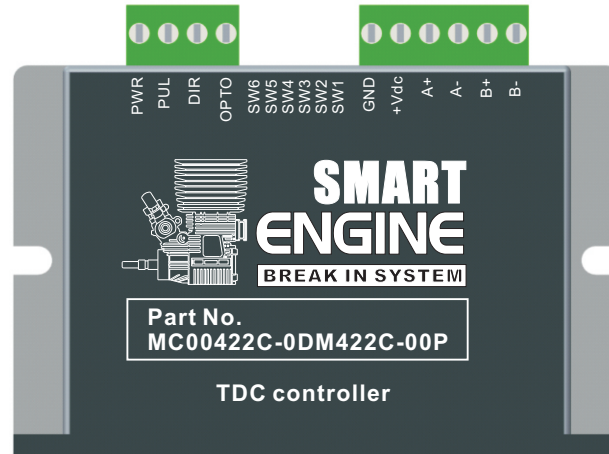
 Right to tighten  
 Left to relax

- C. Adjust the slipper to maximum torque with the lock nut.

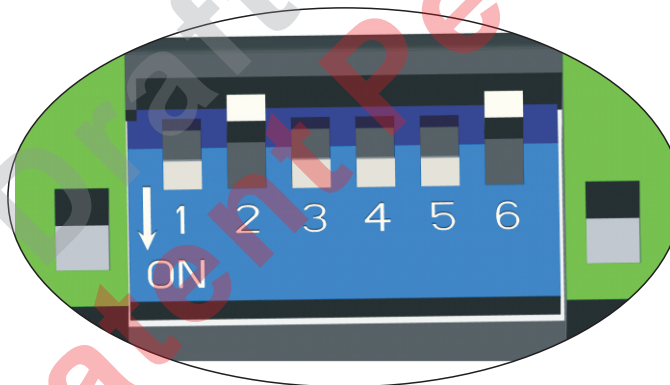


- D. Press the Enter key and reconfirm the torque in correct adjustment. 
- E. Completed the adjustment with gear and slipper can smoothly drive clockwise and anti-clockwise.

# TDC Controller parameters table setting



- RED Power On
- Green Operating



**PK Current Table**

PK Current	SW1	SW2	SW3
0.3	on	on	on
0.5	off	on	on
0.7	on	off	on
1.0	off	off	on
1.3	on	on	off
1.6	off	on	off
1.9	on	off	off
2.2	off	off	off

**Pulse/rev table**

MSTEP	SW4	SW5	SW6
200	on	on	on
400	off	on	on
800	on	off	on
1600	off	off	on
3200	on	on	off
6400	off	on	off
12800	on	off	off
25600	off	off	off

# MEMO

**SMART  
ENGINE**  
**BREAK IN SYSTEM**

MODEL  
NUMBER 336LCD

Rev : 5.2

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