

# HOMOLOGATION AND TECHNICAL SPECIFICATION UPDATE BULLETIN

HOMOLOGATION		HOMOLOGATION NO.	109H
BULLETIN NO.	109H-5	BULLETIN DATE	2-10-18
SUBJECT	TC210 Clubmaxx: Clutch update		

The information and specifications contained in this Homologation and Technical Specification Update Bulletin are to be read in conjunction with and form part of the homologation detailed herein.

### EXPLANATORY NOTES SUPPLIED BY THE MANUFACTURER’S REPRESENTATIVE.

**Clutch:** Type, mounting position, sprocket selection, shoe settings and spring tension.

**Function:** The engine crankshaft is connected to the input of the clutch via a keyed shaft, while the output sprocket is connected to the drive axle by chain. Centrifugal force is used to engage the clutch shoes, thereby transmitting power from the engine to the drive sprocket.

**Rational:** Versatility of design allows for inboard or outboard mounting of the sprocket, 3 different shoe engagement settings, as well as various sprocket sizes and spring tensions allows the clutch be "tuned" to suit a karts unique characteristics. With a tuned clutch and proper gearing, you will feel an even pull coming out of the corners and constant acceleration on the straights.

- Increased flexibility in kart setup and track “tuning”
- Apply peak engine torque for maximum performance
- Provide overload protection for operator and equipment safety
- Reduced vibration (if the kart Chatters or shakes try a softer “smooth” shoe position)

### Homologation Document Reference

Heading: D.4 CLUTCH, page 18

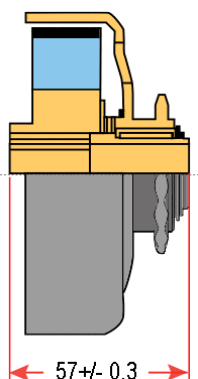
#### Details

## TC-GEL19219 NORAM Ultimate, High Performance Clutch





#### Drum Dimensions :

OD 101.7 +/- 0.2mm ID 95mm (Wear limit + 1mm)

Shoe Part No. TC25062



Accepted TC-GEL19219 Spring variants:

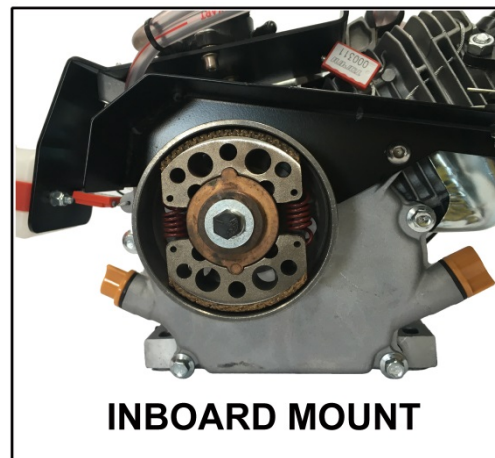
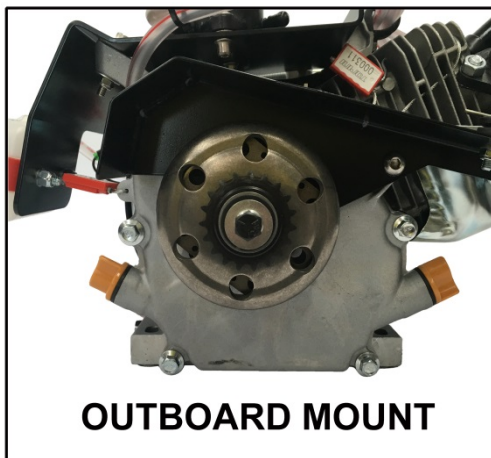
		<u>Spring Part No.</u>	<u>Spring color</u>	<u>Engagement Speed</u>
		<b>01000020</b>	<b>Red</b>	<b>2200 rpm</b>
		<u>Spring Part No.</u>	<u>Spring color</u>	<u>Engagement Speed</u>
		<b>01000030</b>	<b>White</b>	<b>2700 rpm</b>

Accepted TC-GEL19219 Sprocket variants:



<u>Sprocket Part No.</u>	<u>Size</u>
<b>GE20217</b>	<b>17 tooth</b>
<b>GE20218</b>	<b>18 tooth</b>
<b>GE20219</b>	<b>19 tooth</b>
<b>GE20220</b>	<b>20 tooth</b>
<b>GE20221</b>	<b>21 tooth</b>

- Sprocket Orientation



- TC-GEL19219 Shoe Settings

Outboard Rotation



**SETTING - 1**

**RAPID ENGAGEMENT**

Outboard Rotation



**SETTING - 2**

**MODERATE ENGAGEMENT**

Outboard Rotation



**SETTING - 3**

**SMOOTH ENGAGEMENT**

Note: Illustration below, shown as viewing the open clutch end of an inboard mount:

Inboard Rotation



**SETTING - 1**

**RAPID ENGAGEMENT**

Inboard Rotation



**SETTING - 2**

**MODERATE ENGAGEMENT**

Inboard Rotation



**SETTING - 3**

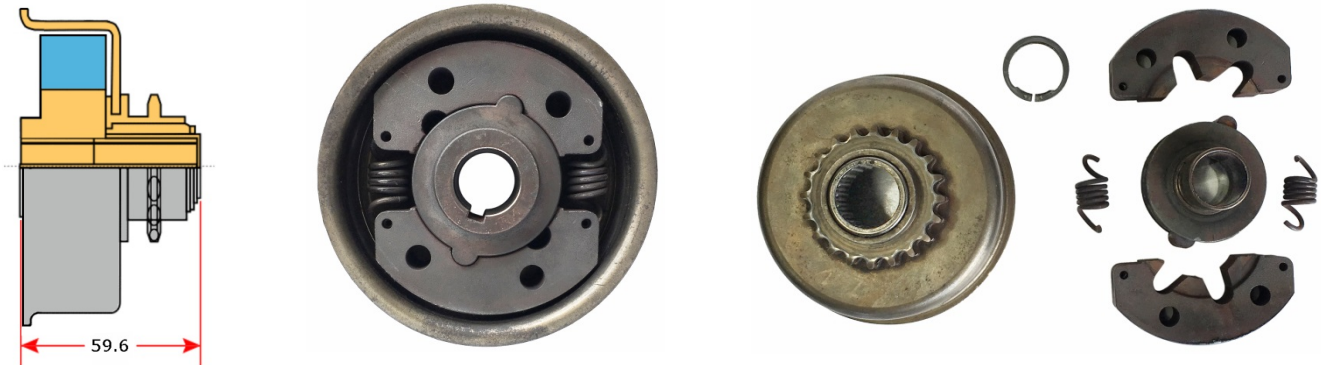
**SMOOTH ENGAGEMENT**

# TC-GE20219 NORAM Standard Clutch

## Full Metal Shoe – Low Wear – Fixed Sprocket

### Drum Dimensions :

OD 92.6 +/- 0.2mm ID 88.6 (Wear limit + 1mm)



### Accepted TC-GE20219 Spring variants:



<u>Spring Part No.</u>	<u>Spring color</u>	<u>Engagement Speed</u>
01000020	Red	1950 rpm
01000030	White	2450 rpm

### TC-GE20219 Sprocket:



Size  
**20 tooth** (Note: Sprocket is one piece with drum)