

## Accessory Fitting Instructions

Thank you for choosing this Triumph genuine accessory kit. This accessory kit is the product of Triumph's use of proven engineering, exhaustive testing, and continuous striving for superior reliability, safety and performance.

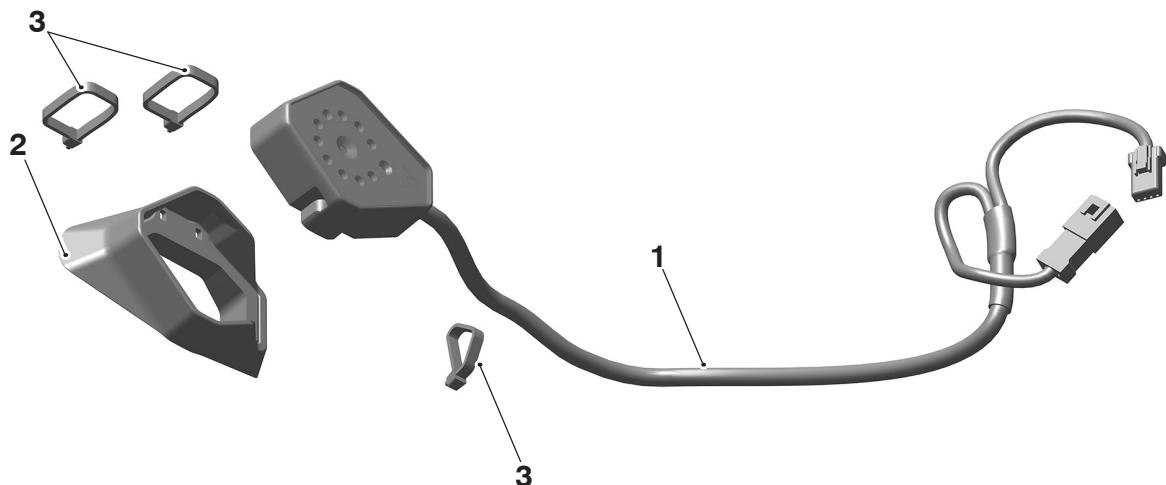
Completely read all of these instructions before commencing the installation of the accessory kit in order to become thoroughly familiar with the kit's features and the installation process.

These instructions should be considered a permanent part of your accessory kit, and should remain with it even if your accessory equipped motorcycle is subsequently sold.

### LC-GPA Module Kit

Kit Number	Models
A9820204	TF250-X

#### Parts supplied



1. LC-GPA module	1 off	3. Cable tie	3 off
2. Module bracket	1 off		

## ⚠ WARNING

Fit only genuine Triumph accessories to those models approved by Triumph as listed in the associated Triumph fitting instructions.

The accessory kits covered in this instruction are designed for use on specific models of Triumph motorcycle. The accessory kits and the models applicable are listed at the start of the instruction. They should never be fitted to any other Triumph model or to any other manufacturer's motorcycle.

Fitting an accessory kit to a Triumph model not listed, or to any other manufacturer's motorcycle, will affect the performance, stability and handling of the motorcycle.

Failure to follow the advice above may lead to loss of motorcycle control which could result in serious injury or death.

## ⚠ WARNING

Always have Triumph approved parts, accessories and conversions fitted by a competent person with the specialist knowledge and technical understanding of motorcycles, such as an authorised Triumph dealer.

The fitment of parts, accessories and conversions by a person without the specialist knowledge and technical understanding of motorcycles may affect the handling, stability or other aspects of the motorcycle's operation.

Failure to follow the advice above may lead to loss of motorcycle control which could result in serious injury or death.

## ⚠ WARNING

A torque wrench of known accurate calibration must be used when fitting this accessory kit.

Failure to tighten any of the fasteners to the correct torque specification may affect motorcycle performance, handling and stability.

Failure to follow the advice above may lead to loss of motorcycle control which could result in serious injury or death.

## ⚠ WARNING

Make sure the motorcycle is stabilised and adequately supported.

Do not support the motorcycle on any ancillary component, the exhaust system or any other non structural parts of the motorcycle frame.

A correctly supported motorcycle will help prevent it from falling.

An unstable motorcycle may fall resulting in motorcycle damage, serious injury or death.

## NOTICE

Triumph offers a broad range of approved genuine accessories for your motorcycle.

We cannot therefore cover all possible equipment variations in these instructions. For removal and installation of Triumph Genuine Accessories, always refer to the instructions supplied with the respective accessory kit.

To obtain additional copies of any Triumph accessory instructions, visit [www.triumphinstructions.com](http://www.triumphinstructions.com) or contact your authorised Triumph dealer.

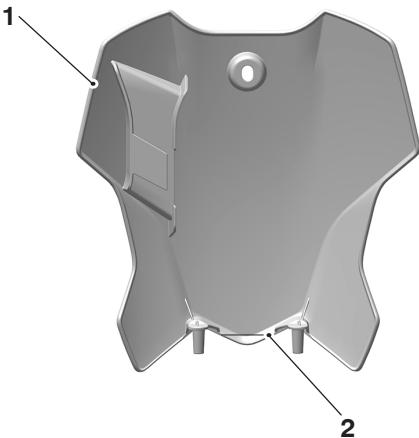
1. Remove the seat as described in the Service Manual.
2. Disconnect the battery as described in the Service Manual.
3. Remove the number board as described in the Service Manual.

## ⚠ CAUTION

When cutting, always use the correct tools and personal protection equipment.

Failure to use these may result in personal injury.

4. Using suitable tool cut the bottom end of the number board through the cutting line as shown below.



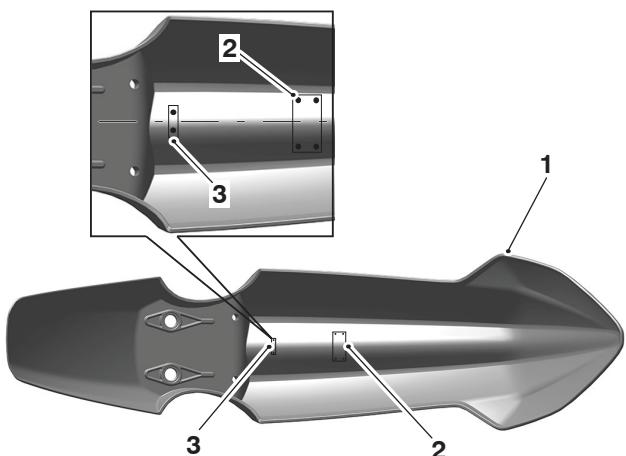
1. Number board
2. Cutting mark
5. Using a suitable file, remove any burrs or sharp edges from the cut end of the number board.
6. Remove the front mudguard as described in the Service Manual.

## ⚠ CAUTION

When drilling, always use the correct tools and personal protection equipment.

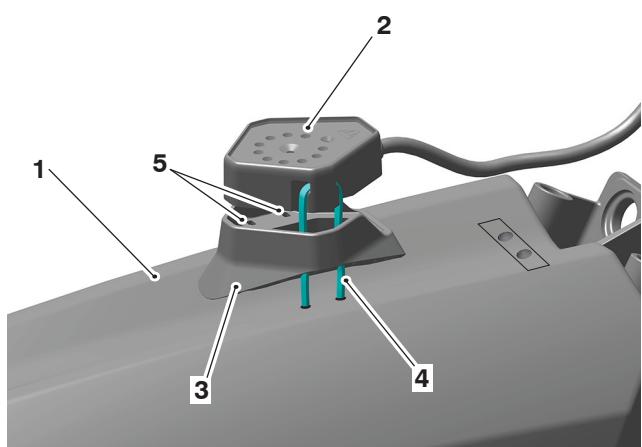
Failure to use these may result in personal injury.

7. Locate the six drill marks under the Front mudguard and drill 5 mm holes.



1. Front mudguard
2. LC-GPA module drill marks
3. Cable tie drill marks

8. Align the LC-GPA module and module bracket with the drilled hole and attach to the mudguard using the cable ties as shown below.



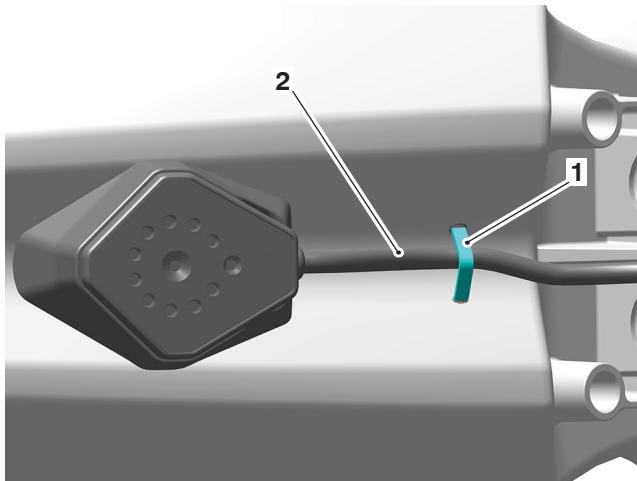
1. Mudguard
2. LC-GPA module
3. Module bracket
4. Cable tie
5. Cable tie route

### **⚠️ WARNING**

When cutting cable ties, always use the correct tools and personal protection equipment.

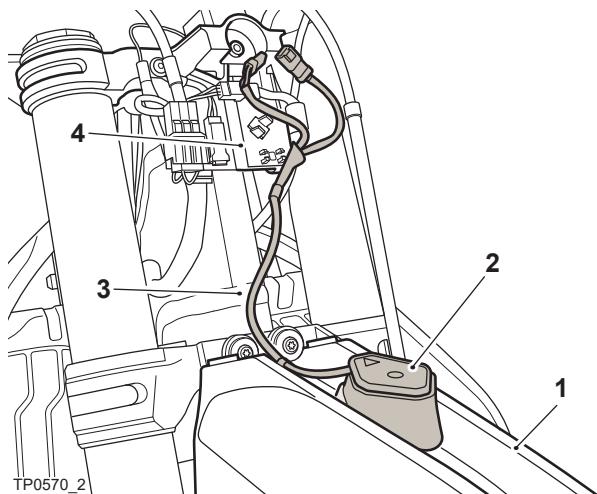
Failure to use these may result in personal injury.

9. Fully tighten the cable ties from the underside of the mudguard and trim any excess cable tie.
10. Secure the LC-GPA harness to the mudguard using the cable tie as shown below. Trim off any excess cable tie.



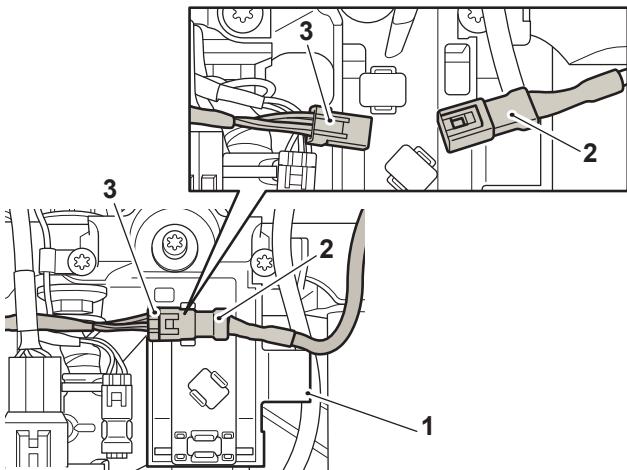
1. Cable tie
2. LC-GPA module harness

11. Refit the front mudguard as described in the Service Manual.
12. Route the harness up to the WiFi module housing.



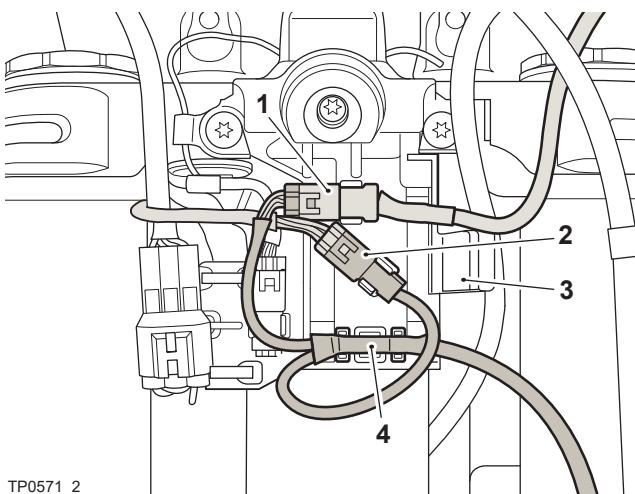
1. Front mudguard
2. LC-GPA module
3. LC-GPA module harness
4. WiFi module housing

13. Disconnect the switch harness connector as shown below.



1. WiFi module housing  
2. Switch harness connector  
3. Main harness connector

14. Connect respective wire of the LC-GPA module to the switch harness connector, and main harness connector.  
15. Clip the connectors to the WiFi module housing as shown below.



1. Switch harness connector  
2. Main harness connector  
3. WiFi module housing  
4. LC-GPA module harness

16. Refit the number board as described in the Service Manual.  
17. Reconnect the battery as described in the Service Manual.  
18. Refit the seat as described in the Service Manual.

## LC-GPA Operation

### CAUTION

LC-GPA module is optimized for off-road use only. It must not be used on the road.

The LC-GPA (Launch Control - Get Power Assist) module allows the rider to manage launch control and traction control, it is fitted to the front mudguard and is visible to the rider over the number board mounting.

The LC-GPA module is controlled using the left hand switch housing on the motorcycle.

The red LC LED in the center of the LC-GPA indicates the Launch Control mode.

The red MFL (Multi Functioning Light) indicates multiple functions such as the GPA (Get Power Assist) or traction control, shift assist and high temperature warning.

### NOTICE

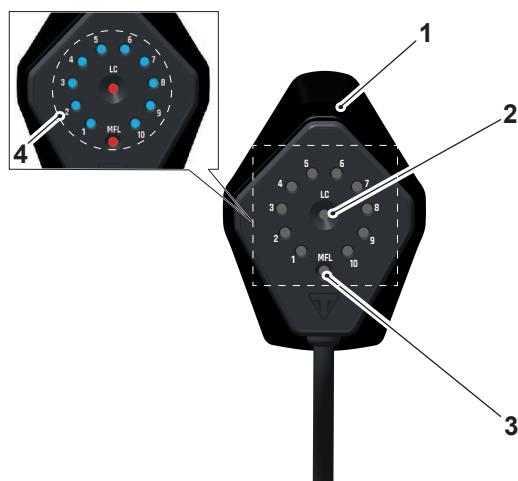
The RPM level is indicated by the blue LEDs on the LC - GPA, which are numbered from one to ten.

1 LED lit represents the engine at idle.

All 10 LEDs lit represents the RPM level near maximum engine speed.

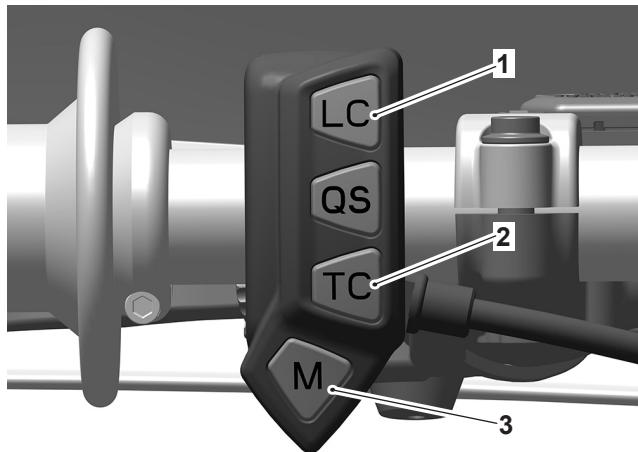
Each LED does not indicate a specific engine speed.

The numbered blue LED's in the sequence 1 to 10 indicates the different launch control, GPA and RPM levels.



1. LC-GPA module  
2. Launch control LED (LC)  
3. Multi functional light (MFL)  
4. Blue LEDs

The LC-GPA uses the launch control (LC), traction control (TC) and map(M) switch on the left hand switch housing to operate the LC-GPA module.



1. Launch control switch
2. Traction control switch
3. Map switch

#### LC-GPA Power On Sequence

1. Start the engine.
2. All LED lights illuminate for approximately 1 second.



Module startup sequence

3. The numbered blue LED lights will turn off and the LC red LED light will flash for approximately 2 seconds.



Launch control activation

4. The LC LED will stop flashing and the LC-GPA will enter standard mode. The current GPA level will be displayed.
5. The GPA level will be indicated by the LED being lit up to the number of the GPA level.



GPA active with level 3 indicated

#### Controlling the LC-GPA Module from the Map Switch

The brightness of the LED's on the LC-GPA module can be adjusted to low or high using the map switch by doing the following:

1. Press and hold the map switch (M) on the left hand switch housing .



2. All lights on the map switch will flash.
3. Continue to hold the M button until all of the left hand switch housing lights stop flashing. The new brightness level will be set.

#### NOTICE

The ECU will change the map being used if the M button is released before the lights stop flashing.

The procedure is the same whether changing the brightness from low to high, or high to low.

## Traction Control or GPA Level

### Activating the Traction Control

1. Start the engine.
2. To activate the traction control, short press the traction control switch (TC) on the left hand switch housing. The traction control switch (TC) on the left hand switch housing will light up.



3. The LC-GPA module blue LED's will light up to display the level the traction control is set to.

4. To deactivate the traction control, press and hold down the traction control switch (TC) for 1 second and the traction control switch (TC) will turn off.
5. The lights on the TC button on the left hand switch housing and LC-GPA module will turn off.

#### NOTICE

The TC button light will light up / turn off regardless of whether the LC-GPA module is fitted to the motorcycle.

### Adjusting the GPA level

1. Start the engine and wait for the power on sequence to be completed.
2. Press and hold the traction control switch (TC) until the red MFL and blue LED's start to flash then release the traction control switch (TC).



3. Short press the traction control switch (TC) to increase the GPA levels. One press is one increment.



## NOTICE

GPA is adjusted on a scale of 1-10.

1 is the least amount of traction control.

10 most amount of traction control.

The blue LEDs will progressively turn on from 1 to 10 each time when the button is pressed. After the maximum value is reached the GPA level restarts from 1.

If the GPA level is set to 0 traction control is off and the TC button, if pressed in this condition, will not illuminate.

4. Once the desired level has been reached wait approximately 2.5 seconds and the new GPA level will be set.
5. The blue LED's will stop flashing and remain constant, and the red MFL LED will turn off. The GPA level is now set.



2. Press and hold the launch control switch (LC) until the launch control switch (LC) turns solid red and the red LC LED on the LC-GPA starts to flash with all other LED's off.

3. Release the launch control switch (LC) and the LC-GPA will send a launch control activation request to the ECU.
4. The LC LED will stop flashing but remain on. The launch control is now active on the motorcycle.



## Launch Control

### Activating launch control

## NOTICE

To set the GPA level and the activate the LC the RPM level must be below 8,000 RPM and the throttle position must be below 10%.

1. Start the engine and wait for the power on sequence to be completed.

When the launch control is activated, the RPM level will be displayed via the blue LED's on the launch control module. The LED's are used as an aid to the rider to achieve the optimal starting condition depending on which map is selected.

## NOTICE

Launch control is adjusted on a scale of 1-20.

1 is the least amount of launch control.

10 most amount of launch control.

When the LC level is set to 0 the launch assist is set to the minimum but is still present but will act as a rev limiter only.

The RPM values **Low**, **Optimal** and **High** will be displayed on the LC-GPA module as follows:

- **RPM Low condition**

- The LC LED will be illuminated and steady.
- Some blue LED's will be illuminated and steady depending on the RPM level.

The RPM is low and the rider is required to increase the RPM levels in order to reach the optimal starting condition.



After launch the red LC LED will continue to flash until the launch control is deactivated.

Launch control will automatically be deactivated by the ECU when the TPS drops under the value set on the map that has been selected, or if the rider chooses to manually deactivate using the map switch.

When launch control has deactivated the LC LED will turn off and the traction control level LED's will illuminate to display the traction control level.

**Deactivating launch control manually**

1. To manually disable the launch control press and hold the launch control switch (LC) for a minimum of 2.5 seconds.
2. The LC LED will turn off and the GPA level LED's will come back on, displaying the GPA level.



- **RPM Optimal condition**

- All LED's on the LC-GPA module will be illuminated and steady.

The rider has reached the optimal starting condition and should not change the RPM levels.



- **RPM High condition**

- All LED's on the LC-GPA module will flash.

The RPM level is high and the rider is required to decrease the RPM in order to reach the optimal starting condition.

**NOTICE**

The training mode can only be activated using the WiFi module and the MX pro application.

## Training Mode

Training mode is activated from the MX Tune Pro application and unlocks the **shift assist** and **high temperature warning** features which are only available in training mode.

- **Shift assist**

All the blue LED's on the LC-GPA module will flash to indicate the rider to upshift.



- **High temperature warning**

If the engine temperature exceeds the alarm threshold the MFL LED will flash to indicate the high temperature. The blue LED's indicating the GPA level will remain constant at the set level.

When the engine temperature decreases under the alarm threshold, the MFL LED will turn off.

The temperature thresholds cannot be changed.



## ⚠ DANGER

Motocross is a dangerous sport.

Motocross should only be attempted by riders who have been instructed in the necessary techniques for this type of competition and are familiar with the motorcycle's characteristics in all conditions.

Motocross by riders who have not been instructed in the necessary techniques is dangerous, leading to loss of motorcycle control which will result in serious injury or death.

## ⚠ WARNING

High-speed operation should only be attempted by riders who have been instructed in the techniques necessary for high-speed riding and are familiar with the motorcycle's characteristics in all conditions.

Only operate this Triumph motorcycle at high speed on closed-course racetracks.

High-speed operation in any other circumstances is dangerous and may lead to loss of motorcycle control which could result in serious injury or death.

## ⚠ WARNING

After fitting the accessory kit the motorcycle will exhibit new handling characteristics.

Operate the motorcycle in a safe area free from traffic to gain familiarity with any new characteristics.

Operation of the motorcycle when not familiar with any new handling characteristics may lead to loss of motorcycle control which could result in serious injury or death.

## ⚠ WARNING

If, after fitting this accessory kit, you have any doubt about the performance of any aspect of the motorcycle, contact a competent person with the specialist knowledge and technical understanding of motorcycles, such as an authorised Triumph dealer.

Riding a motorcycle when there is any doubt as to any aspect of the performance of the motorcycle may lead to loss of motorcycle control which could result in serious injury or death.