

## Accessory Fitting Instructions

### Heated Grip Kit

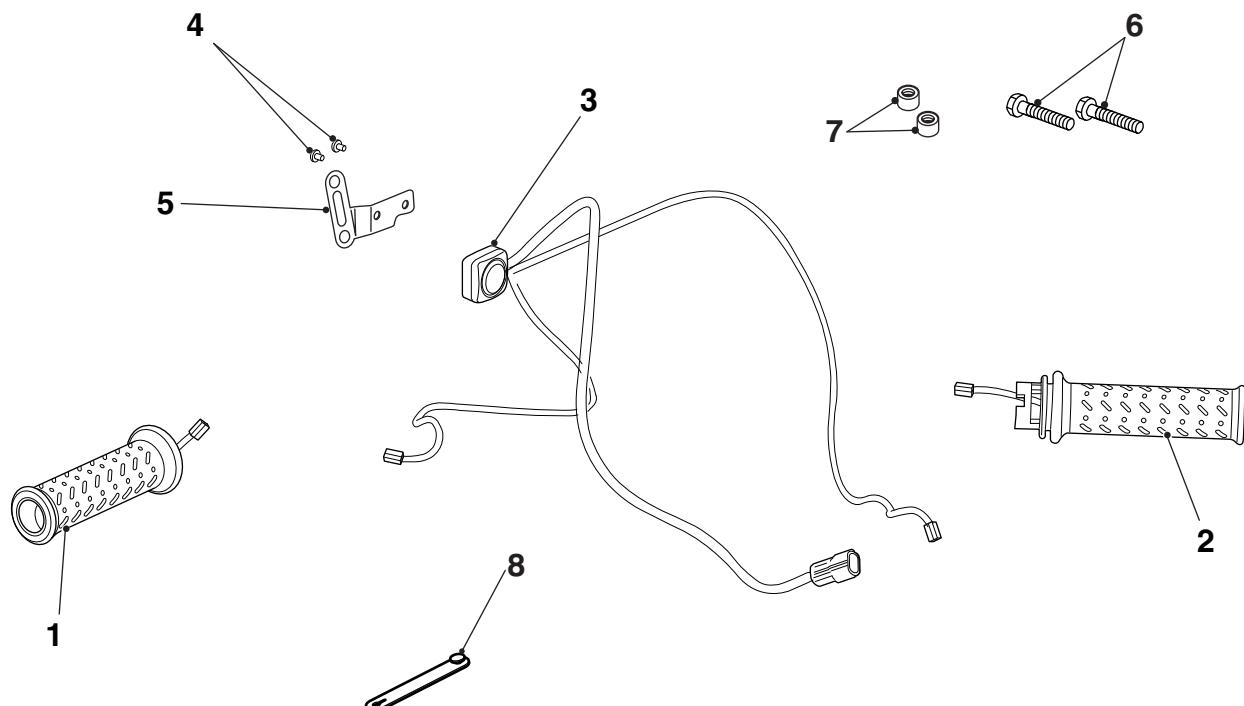
Kit number	Models Affected
A9638170	Tiger XR, Tiger XRx, Tiger XC, Tiger XCx

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.

#### Parts supplied



1. Heated grip, left hand	1 off	5. Bracket, switch	1 off
2. Heated grip, right hand	1 off	6. Bolt, M6 x 35 mm	2 off
3. Switch harness, heated grips	1 off	7. Spacer	2 off
4. Screw, M4 x 5 mm	2 off	8. Rubber strap	1 off



## Warning

This accessory kit is designed for use on Triumph Tiger XR, Tiger XRx, Tiger XC and Tiger XCx motorcycles only and should not be fitted to any other Triumph model or to any other manufacturer's motorcycle. Fitting this accessory kit to any other Triumph model or to any other manufacturer's motorcycle will affect the performance, stability and handling of the motorcycle. This may affect the rider's ability to control the motorcycle and could cause an accident.



## Warning

Always have Triumph approved parts, accessories and conversions fitted by a trained technician of an authorised Triumph dealer. The fitment of parts, accessories and conversions by a technician who is not of an authorised Triumph dealer may affect the handling, stability or other aspects of the motorcycle's operation which may result in loss of motorcycle control and an accident.



## Warning

Always ensure that the newly installed wiring does not chafe against other parts of the motorcycle such that it may be rubbed through and cause an electrical problem. In addition, always ensure that the newly installed wiring will not restrict steering movement. Both conditions are hazardous and could give rise to a dangerous riding condition resulting in a fire, loss of motorcycle control and an accident.



## Warning

Throughout this operation, ensure that the motorcycle is stabilised and adequately supported to prevent risk of injury from the motorcycle falling.

## Heated Grips

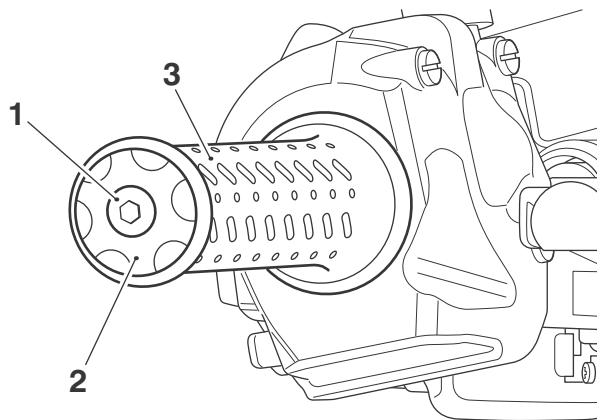


## Warning

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. This may result in loss of motorcycle control and an accident.

## Removal

1. Remove the rider's seat, as described in the Service Manual.
2. Disconnect the battery, negative (black) lead first.
3. Remove the left hand side upper and lower radiator panels as described in the Service Manual.
4. Undo and remove the left hand and right hand handlebar end weights and fixings. Discard the fixings.



1. Fixing

2. Handlebar end weight (right hand shown)

3. Handlebar grip

## Right Hand Side

### Note:

- To gain access to the switch housing fixings it may be necessary to loosen the front brake master cylinder clamp fixings and rotate the assembly out of the way.



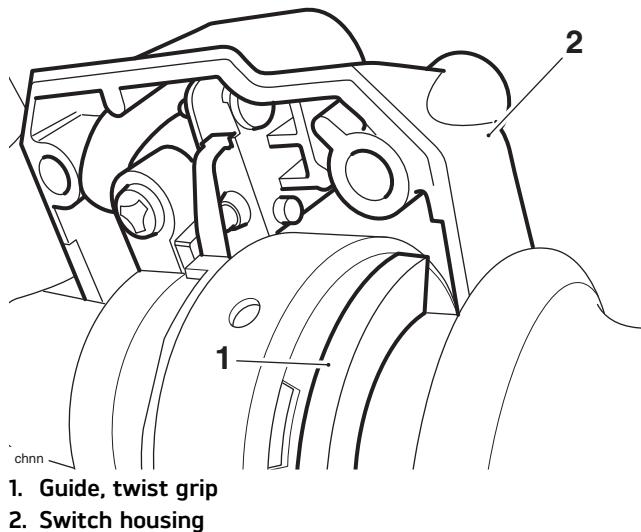
### Warning

Do not allow the master cylinder to invert as this will introduce air into the brake system and may also cause brake fluid to leak resulting in damage to bodywork.

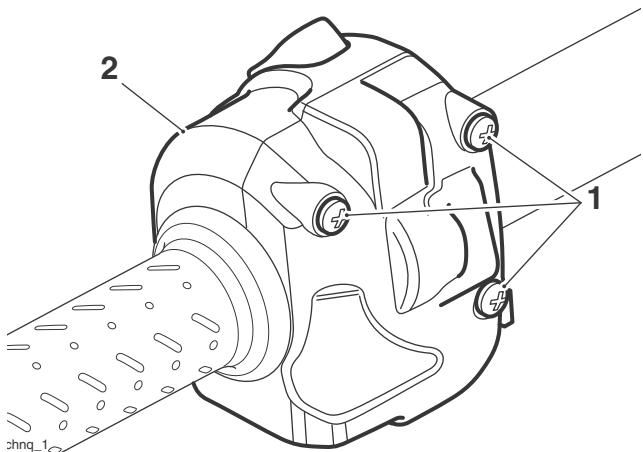
A dangerous riding condition, leading to loss of motorcycle control and an accident could result if this warning is ignored.

1. Release the three fixings and free the rear of the right hand switch housing from the handlebar. Without disconnecting any wiring, lay the switch housing aside.

2. Slightly roll the twist grip rearwards until its guide is clear of the switch housing. Slide the twist grip off the handlebar. Retain the twist grip for reuse if the motorcycle is to be returned to its original condition.



1. Guide, twist grip  
2. Switch housing



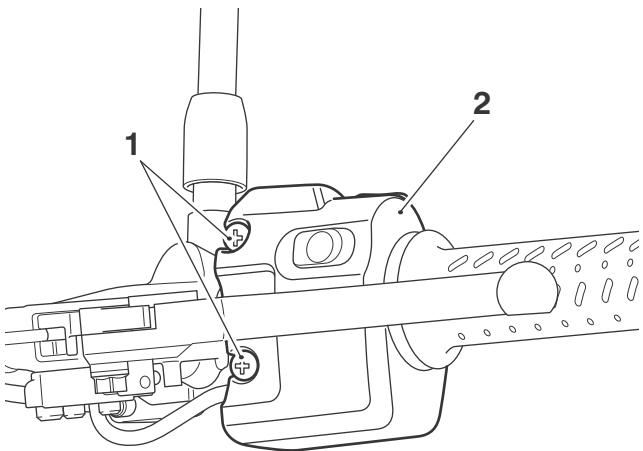
1. Fixings  
2. Rear of switch housing

### Note:

- Note the position and orientation of the twist grip to the switch housing for installation.

## Left Hand Side

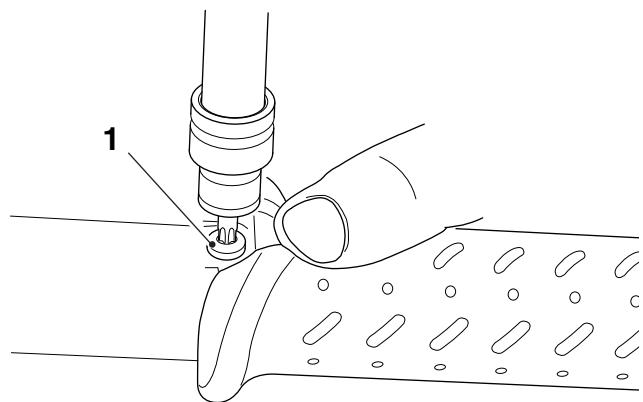
1. Remove the two fixings and free the left hand switch housing from the handlebar. Without disconnecting any wiring, lay the switch housing aside.



### 1. Fixings

### 2. Rear of switch housing

2. Release the two fixings securing the left hand grip to the handlebar, collect the two washers. Retain the fixings and washers for reuse.



### 1. Fixing (one of two shown)

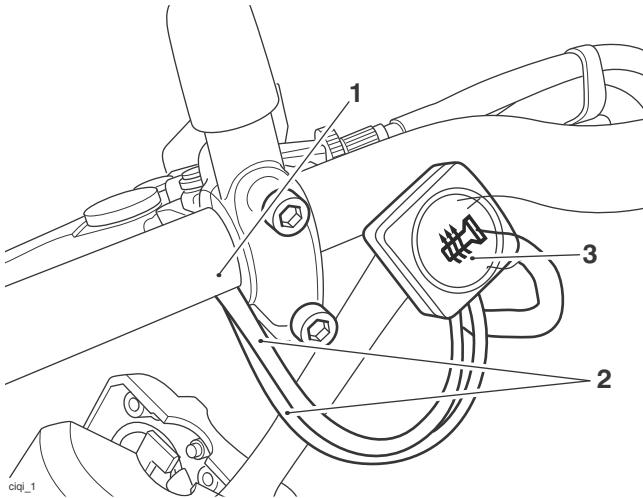
3. Slide the left hand grip off the handlebar.

## Installation

### Note:

- The longer heated grip cable is routed to the right hand (throttle) side of the handlebar.
- The shorter heated grip cable is routed to the left hand (clutch) side of the handlebar.

1. Thread the heated grip cables into the large hole in the underside of the left hand side of the handlebar and out through the holes in the end weight mounting, as shown below.

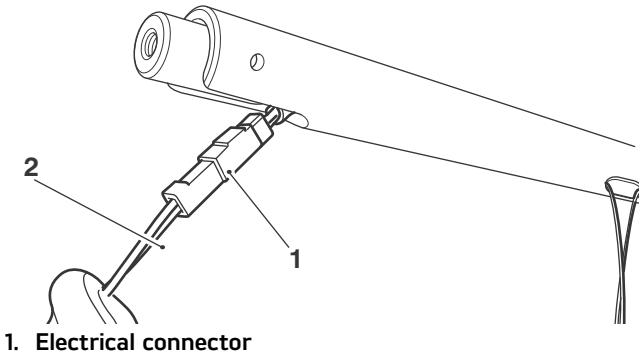


### 1. Handlebar

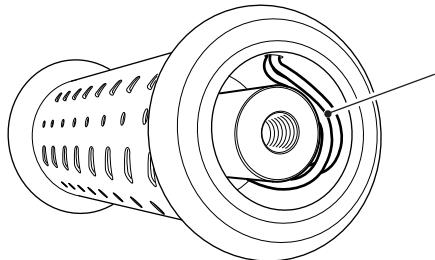
### 2. Heated grip cable

### 3. Heated grip switch

2. Connect the electrical connector of the shorter cable to the left hand heated grip electrical connector.

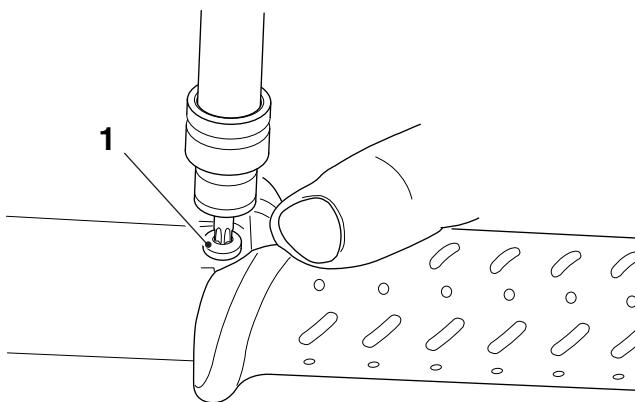


3. Carefully fit the left hand heated grip with the cables facing upwards while pulling the harness out of the handlebar, as shown below.



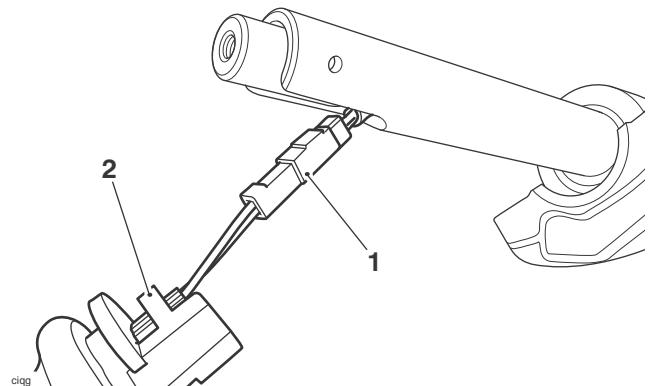
**1. Harness position**

4. Secure with the fixings and washers removed previously. Tighten the fixings to **3 Nm**.



**1. Fixing (one of two shown)**

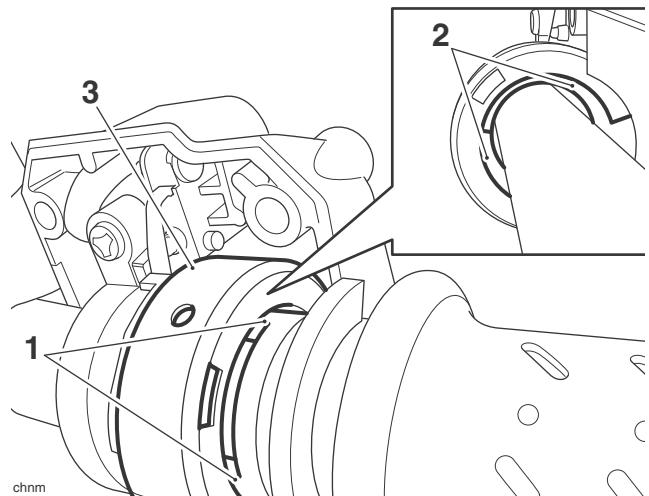
5. Connect the electrical connector of the longer cable to the right hand heated grip (twist grip) electrical connector.



**1. Electrical connector**

**2. Heated twist grip**

6. Partially engage the locating lugs on the heated grip into their slots in the spring housing.



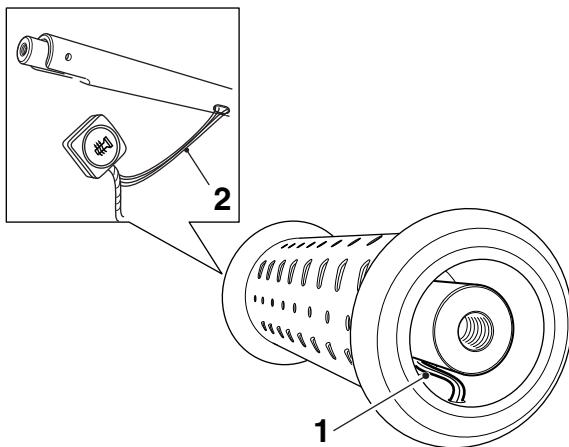
**1. Locating lugs**

**2. Slots**

**3. Spring housing**

7. To fully engage the heated grip, rotate it rearwards and gently push fully in.

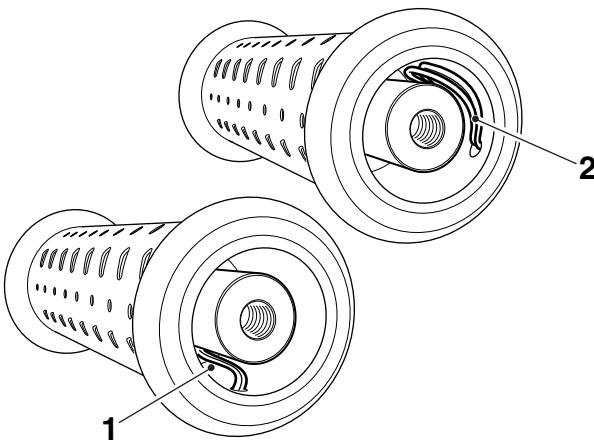
- Carefully pull the cable back through the hole in the underside of the handlebar until the loop of the cables is just inside the end of the right hand grip, as shown below.



- Cable position (throttle off)**

- Right hand cable**

- Ensure there is enough slack in the cables for the twist grip to rotate and the cables not to become trapped.



- Cable position (throttle off)**

- Cable position (throttle on)**

- Carefully check that the twist grip rotates smoothly through its full range of movement, and is not restricted in any way. If any tightness or resistance is felt, check and rectify the cause before riding the motorcycle.
- Fit the rear of the switch housing and tighten its fixings to **2.5 Nm**.
- Ensure the throttle is fully closed, and the electrical cable inside the twist grip has adequate slack to allow correct throttle operation.

## Warning

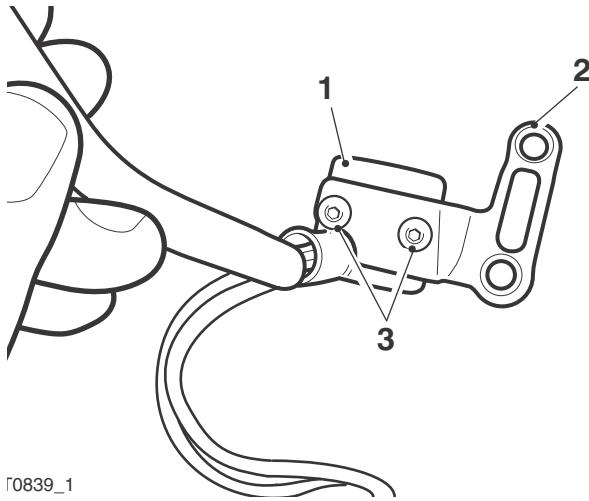
Check the operation of the right hand heated grip (twist grip). Ensure that the rearward and forward movement of the grip is smooth, without tightness and will return to the throttle closed position when released.

A tight or stuck twist grip can lead to loss of motorcycle control and an accident.

- Using a new fixing, refit the right hand handlebar end weight. Tighten the fixing to **5 Nm**.
- Refit the left hand switch housing. Tighten the fixings to **2.5 Nm**.
- Using a new fixing, refit the left hand handlebar end weight. Tighten the fixing to **5 Nm**.
- Align the split line of the brake lever with the '+' mark on the upper surface of the handlebar, then tighten the clamp fixings, upper first, to **12 Nm**.

## Switch Fitment

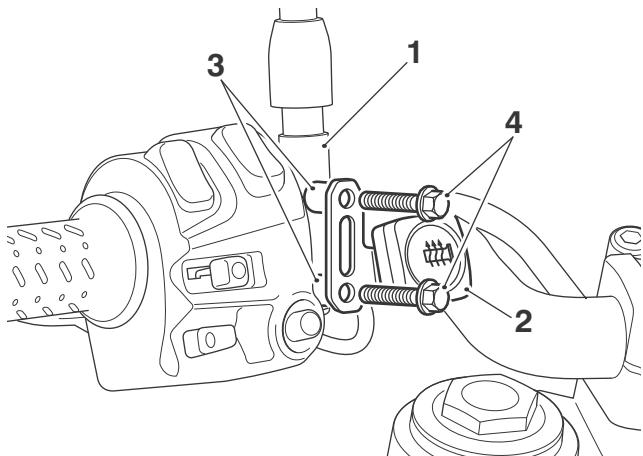
1. Align the switch to the bracket, secure with the two M4 x 5 mm screws from the kit and tighten to **3 Nm**.



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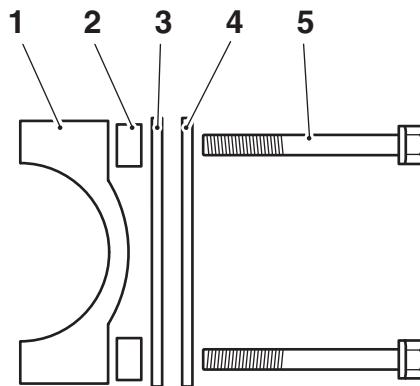
1. Switch
2. Switch bracket
3. Screw, M4 x 5 mm

2. Support the clutch lever assembly and remove the two fixings securing the clutch lever clamp. Retain the fixings if the motorcycle is to be returned to its original condition.
3. Fit the two spacers and heated grip switch bracket to the clutch lever clamp, secure using the M6 x 35 mm bolts as shown below. Do not fully tighten the bolts at this stage.



1. Clutch lever clamp
2. Switch
3. Spacers
4. Bolt, M6 x 35 mm

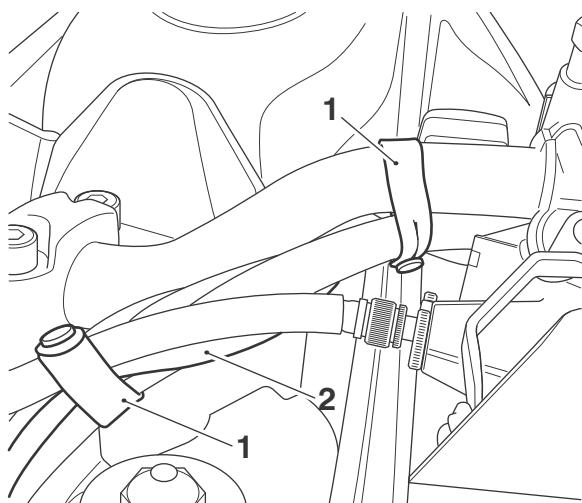
4. If the Triumph heated grip kit is fitted with the fog lamp kit, the fog lamp switch bracket must be fitted before the heated grip switch bracket to ensure correct switch positioning.



1. Clutch lever clamp

2. Spacer
3. Fog lamp bracket
4. Heated grip bracket
5. Bolt, M6 x 35 mm

5. Align the split line of the clutch lever with the '+' mark on the upper surface of the handlebar, then tighten the clamp bolts, upper first, to **12 Nm**, as described in the Service Manual.
6. Following the route of the left hand switch harness, secure the heated grip switch harness as shown below.



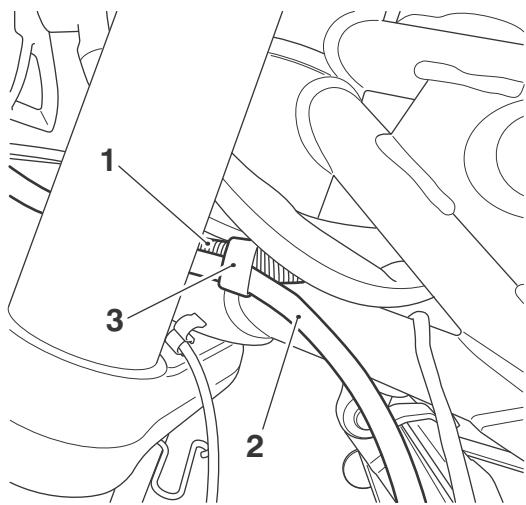
1. Rubber strap
2. Heated grip switch harness



## Warning

Move the handlebars to the left and right full lock while checking that the cables and harness do not bind. A cable or harness that binds will restrict the steering and may cause loss of motorcycle control and an accident.

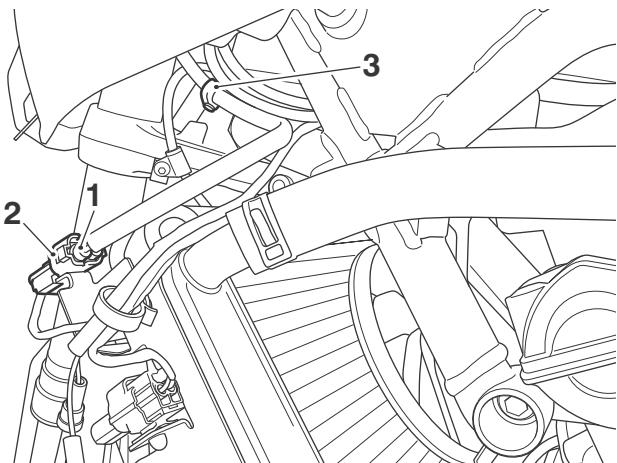
7. Route the heated grip switch harness following the switch housing harness routing to the area at the left hand side of the headstock.
8. Collect the rubber strap from the kit and secure the heated grip switch harness to the main harness as shown below.



1. Main harness
2. Heated grip switch harness
3. Rubber strap

9. Identify the main wiring harness connector on the main wiring harness (located on the left hand radiator bracket) and remove the blanking plug. Retain the blanking plug if the motorcycle is to be returned to its original condition.

10. Connect the heated grip harness connector to the main harness connector.



1. Heated grip harness connector
2. Main harness connector
3. Rubber strap

11. Refit the lower and upper radiator panels as described in the Service Manual.
12. Reconnect the battery, positive (red) lead first and tighten the battery terminals to **4.5 Nm**.
13. Refit the rider's seat, as described in the Service Manual.

## Heated Grip System Testing

### Note:

- During the initial engine start up phase the engine control module will run a self check of the heated grip circuit. During this time the switch will glow red and amber and then return to the off position.

1. Run the engine to avoid draining the battery.
2. Operate the switch at both positions and check that the heated grips warm up.
3. Fuse number 4 of the front fuse box protects the heated grip circuit. Refer to the label in the fuse box lid for fuse amperage.

## Operation

1. The heated grip switch has three operating modes and will change colour as described below:
  - OFF - white (not illuminated)
  - HOT - red (illuminated)
  - WARM - amber (illuminated).

The system is designed to offer a variable level of heat at the grips from warm to hot.

To turn on the heated grips, press and release the heated grip switch once for the hot setting. The switch will be illuminated red.

Press and release the switch a second time for the warm setting. The switch will be illuminated amber.

Press and release the switch a third time to turn off the heated grips. The switch will not be illuminated and is white.

## Automatic Shutdown

If the heated grips are switched on and a low battery Voltage situation is detected continuously for five minutes the illuminated switch will flash five times. When the illuminated switch stops flashing the power to the heated grips and LED warning light will be switched off.

To switch the heated grips on again, press the switch until the desired heat level is reached, however if the low Voltage condition is still apparent the heated grips will operate for a further five minutes and then turn off.

### Warning

If, after fitment of this accessory kit, you have any doubt about the performance of any aspect of the motorcycle, contact an authorised Triumph dealer and do not ride the motorcycle until the authorised dealer has declared it fit for use. Riding a motorcycle when there is any doubt as to any aspect of the performance of the motorcycle may result in loss of control of the motorcycle leading to an accident.

### Warning

Never ride an accessory equipped motorcycle at speeds above 80 mph (130 km/h).

The presence of accessories will cause changes in the stability and handling of the motorcycle. Failure to allow for changes in motorcycle stability may lead to loss of control or an accident.

Remember that the 80 mph (130 km/h) limit will be reduced by the fitting of non-approved accessories, incorrect loading, worn tyres, overall motorcycle condition and poor road or weather conditions.

### Warning

The motorcycle must not be operated above the legal road speed limit except in closed-course conditions.

### Warning

Only operate this Triumph motorcycle at high speed in closed-course, on-road competition or on closed-course racetracks. 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.

High-speed operation in any other circumstances is dangerous and will lead to loss of motorcycle control and an accident.