Accessory Fitting Instructions

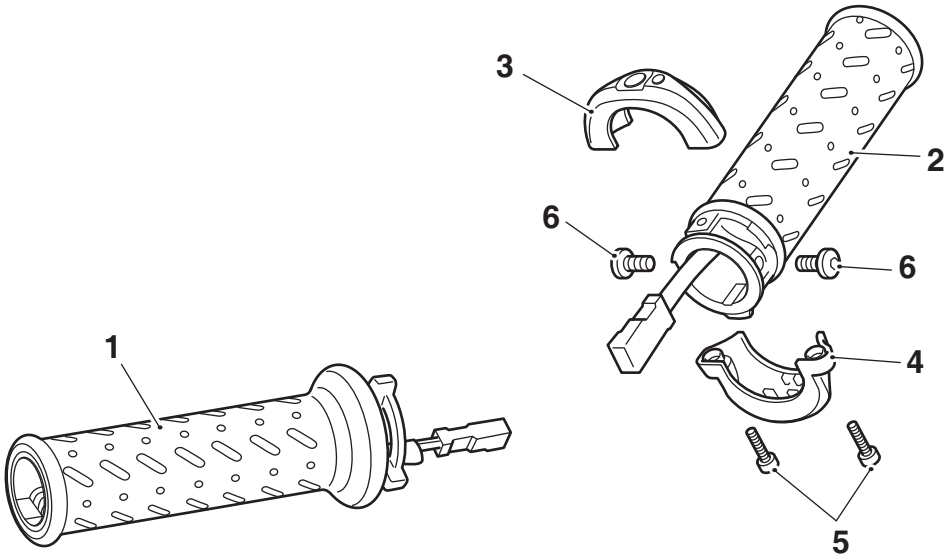
Heated Grip Kit	
Kit Number	**Models Affected**
A9638105	Bonneville T100 from VIN 759204, Bonneville T120, Bonneville T120 Black, Bonneville Bobber, Bonneville Bobber Black, Bonneville Speedmaster from VIN 739143,

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, right hand	1 off	4.	Switch housing, lower	1 off
2.	Heated grip, left hand	1 off	5.	Screw, M4 x 10 mm	2 off
3.	Switch housing, upper	1 off	6.	Screw, Torx head self-tapping	2 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. This may affect the rider's ability to control the motorcycle and could result in an accident causing severe injuries or death.

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 will result in 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.

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 will result in loss of motorcycle control and an accident.

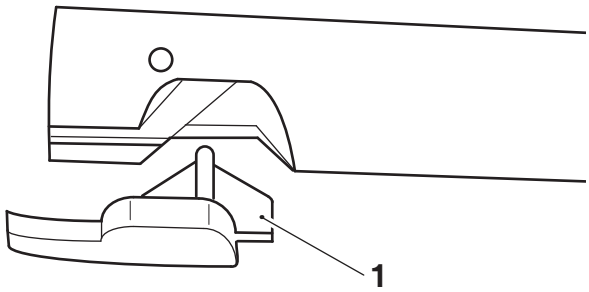
Note:

- **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 or contact your authorised Triumph dealer.**

1. Remove the seat, as described in the Service Manual.
2. Disconnect the battery, negative (black) lead first.
3. **Left Hand Side**
   Remove the bar end finisher and if fitted, bar end mirror, as described in the Service Manual. Retain the bar end finisher and where applicable, bar end mirror for reuse.
   Right Hand Side
   Remove the bar end finisher and if fitted, spacer and/or bar end mirror, as described in the Service Manual. Retain the bar end finisher and where applicable, spacer and/or bar end mirror for reuse.

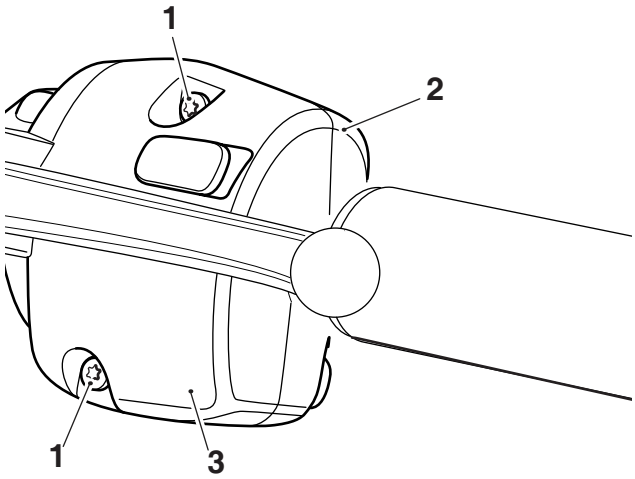
Left Hand Side

4. Slide the left hand grip off the handlebar. Retain the grip for reuse if the motorcycle is to be returned to its original condition.
5. Remove the plastic insert from the end of the left hand side of the handlebars, as shown. Retain the plastic insert for reuse if the motorcycle is to be returned to its original condition.



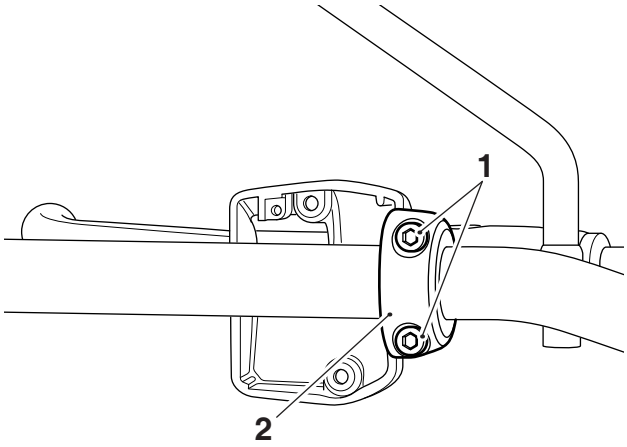
1. **Plastic insert**

6. Remove the two fixings and detach the switch housing from the clutch lever housing. Without disconnecting any wiring, move the switch housing clear of the clutch lever housing. Retain the fixings for reuse.



1. **Fixings**
2. **Switch housing**
3. **Clutch lever housing**

7. Loosen the fixings and move the clutch lever housing to access the hole in the handlebar for the heated grip electrical connection.



1. **Fixings**
2. **Clamp**

Warning

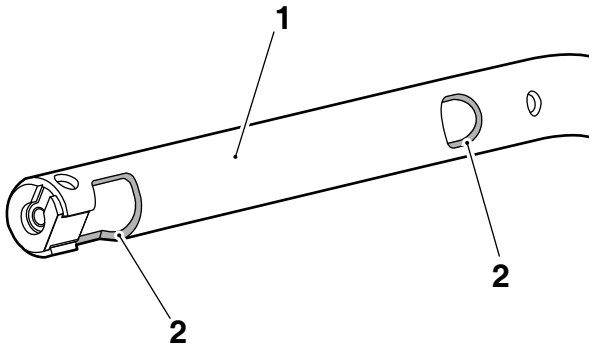
Before fitting a heated grip harness into the handlebars check the access holes/slots for any signs of burrs or sharp edges.

Any burrs or sharp edges found must be removed using a suitable file or emery paper before installing the heated grip harness.

Fitting a heated grip harness into handlebars where the access holes/slots have burrs or sharp edges may lead to damage of the harness.

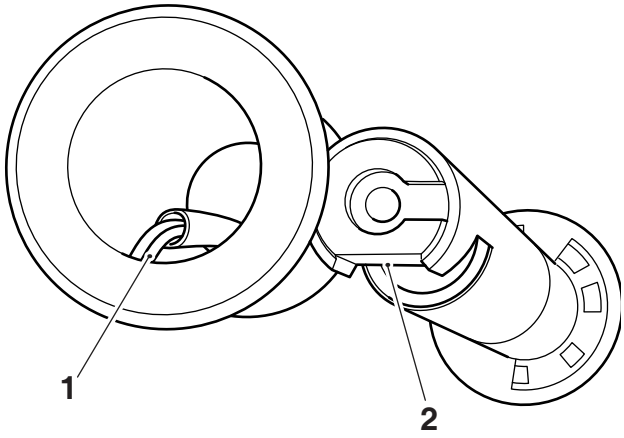
A damaged harness could lead to an electrical malfunction which may result in loss of motorcycle control and an accident.

8. When fitting heated grips to handlebars, check the handlebar for burrs and sharp edges around the access holes/slots in the handlebar which may damage the heated grip harness. If burrs or sharp edges are found, carefully remove them using a suitable file or emery paper.



1. **Handlebar**
2. **Areas to check for burrs or sharp edges**

9. When fitting heated grips, ensure the heated grip harness is held in position and is positioned by the flat edge of the handlebar.

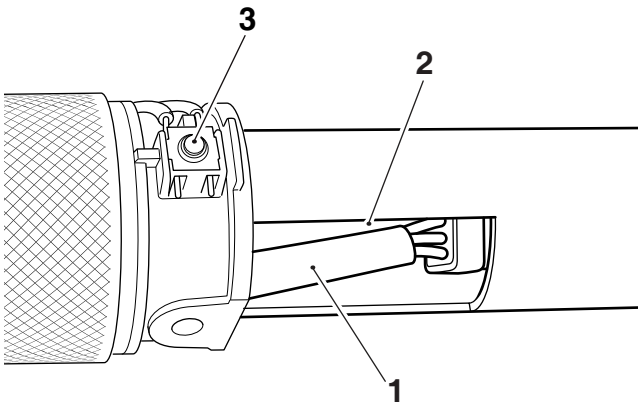


1. **Heated grip harness**
2. **Flat edge on handlebar**

Caution

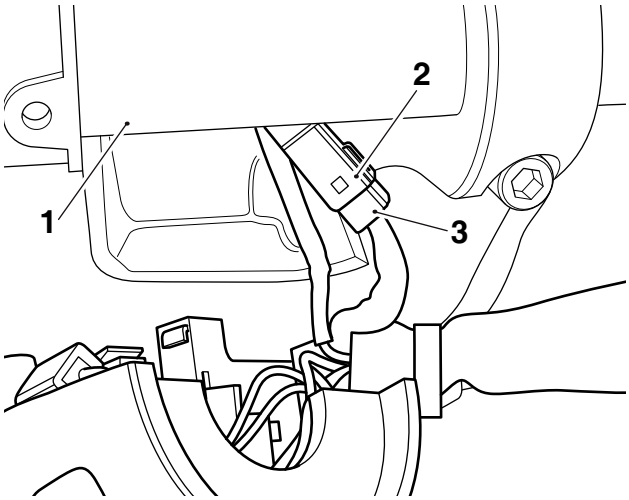
When fitting the heated grips do not excessively twist the grip forward or rearward. Excessive twisting of the grip may damage the heated grip harness.

10. With the heated grip switch contact facing the rider, guide the heated grip harness through the slot in the end of the handlebar as shown.



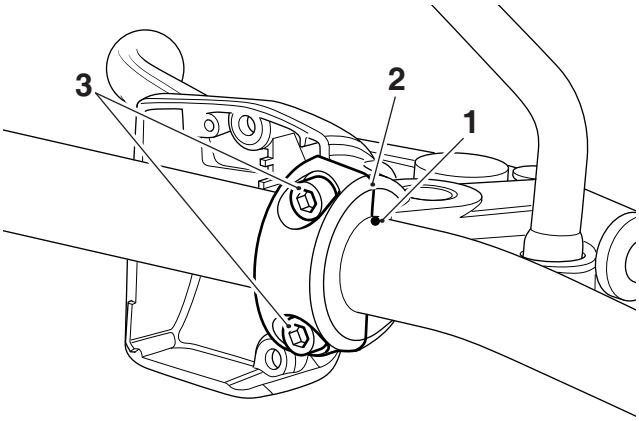
1. **Heated grip harness**
2. **Slot, handlebar**
3. **Switch contacts**

11. While holding the harness inside the heated grip, slide the grip onto the handlebar until the electrical connector is visible in the hole in the handlebar by the switch housing. Pull the heated grip harness electrical connector out of the handlebar and connect to the switch housing heated grip connector, as shown.



1. **Handlebar**
2. **Heated grip electrical connector**
3. **Switch housing heated grip connector**

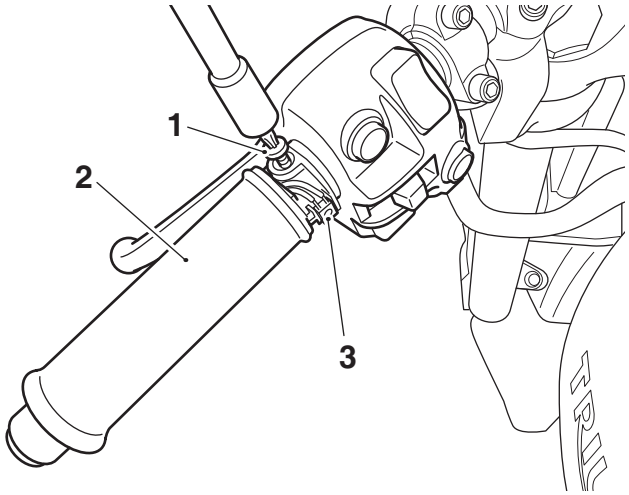
12. Reposition the clutch lever housing aligning the clutch lever housing split line with the alignment mark on the handlebar. Tighten the clutch lever clamp fixings, upper one first, to **12 Nm**.



1. **Alignment mark**
2. **Split line, clutch lever housing**
3. **Fixings**

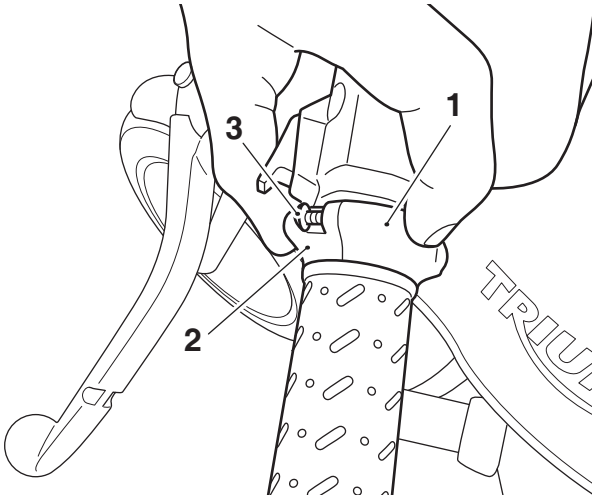
13. Refit the switch housing with the original fixings. Tighten the fixings to **2.5 Nm**.

14. Ensure the grip is in the orientation shown below with the switch contacts facing the rider. Secure the new grip with the two Torx head self-tapping screws provided in the kit. Tighten the screws to **1 Nm**.



1. **Self-tapping screw, Torx head (one of two shown)**
2. **Heated grip**
3. **Switch contacts**

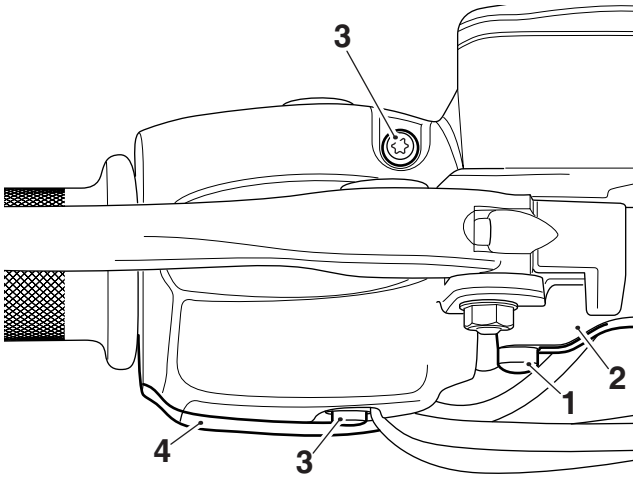
15. Fit the upper and lower switch housings on to the heated grip and retain with the M4 x 10 mm screws provided in the kit. Tighten the screws to **2 Nm.**



1. **Upper switch housing**
2. **Lower switch housing**
3. **Screw, M4 x 10 mm (one of two shown)**

Right Hand Side

16. Detach the brake light switch and bracket from the master cylinder. Retain the fixing for reuse.
17. Remove the two fixings and detach the switch housing from the handlebars. Without disconnecting any wiring, move the switch housing clear of the handlebar. Retain the fixings for reuse.

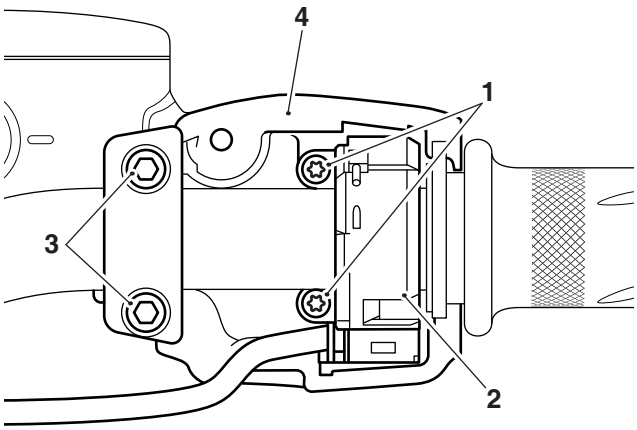


1. **Brake light switch fixing**
2. **Brake light switch and bracket**
3. **Switch housing fixings**
4. **Switch housing**

Caution

To prevent paint damage, do not spill brake fluid onto any area of the bodywork or frame. Spilled brake fluid will damage paintwork.

18. Release the fixings and remove the clamp from the master cylinder. Detach the master cylinder from the handlebars and support it in an upright position.

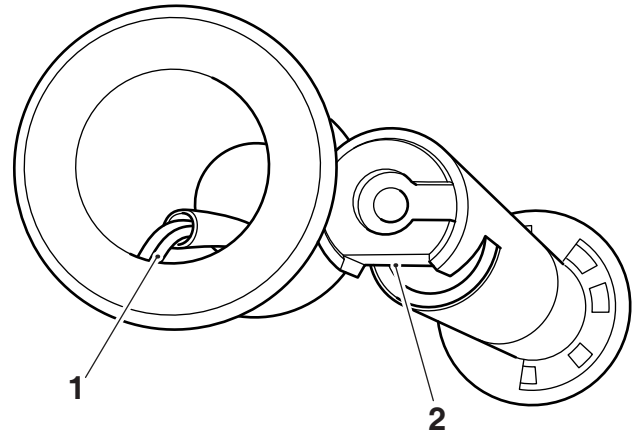


1. **Twist grip position sensor fixings**
2. **Twist grip position sensor**
3. **Fixings, master cylinder**
4. **Master cylinder**

Note:

- **Note the position and orientation of the twist grip to its position sensor for installation.**

19. Remove the twist grip from the handlebars. Retain the twist grip for reuse if the motorcycle is to be returned to its original condition.
20. When fitting the heated grip, ensure the heated grip harness is held in position and positioned at the flat edge of the handlebar.

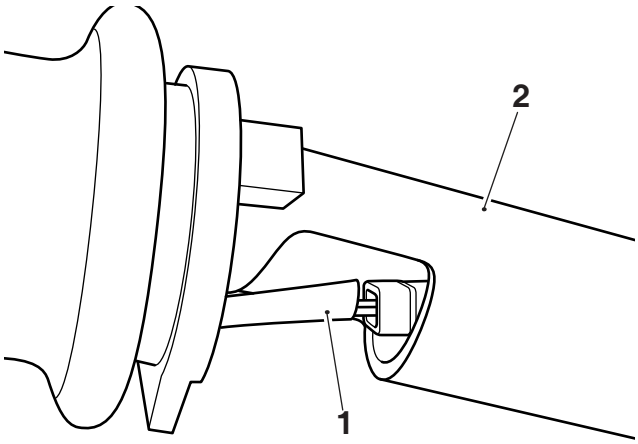


1. **Heated grip harness**
2. **Flat edge on handlebar**

Caution

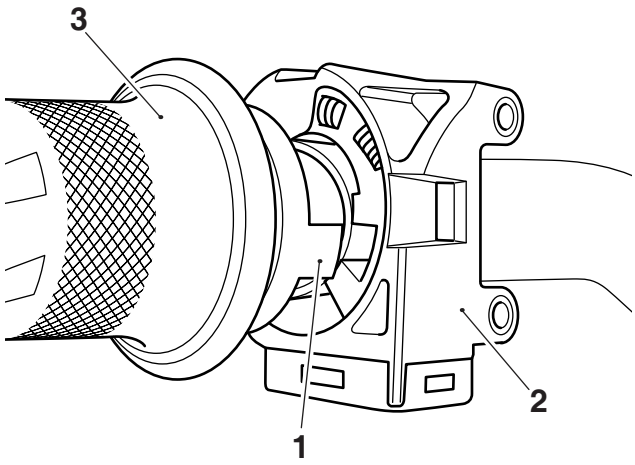
When fitting the heated grips do not excessively twist the grip forward or rearward. Excessive twisting of the grip may damage the heated grip harness.

21. Guide the heated twist grip harness under the flat edge of the handlebar, through the slot and into the handlebar.



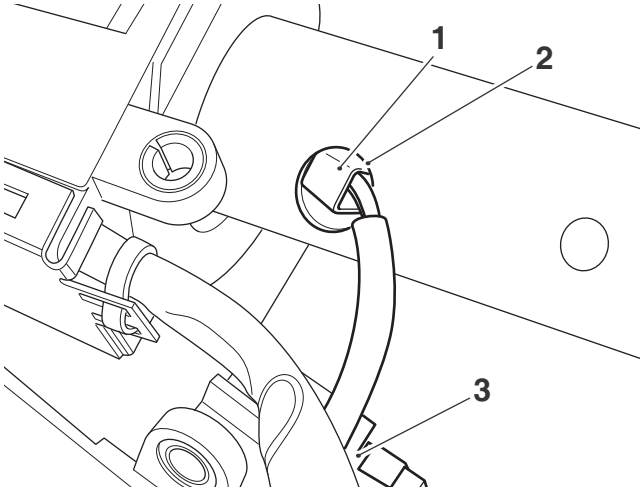
1. **Heated grip harness**
2. **Handlebar**

22. While holding the harness inside the heated grip, slide the grip onto the handlebar until the electrical connector is visible in the hole in the handlebar by the switch housing.
23. Position the twist grip position sensor to the heated grip. Ensure the locating lug on the twist grip fully engages with its gap in the position sensor.



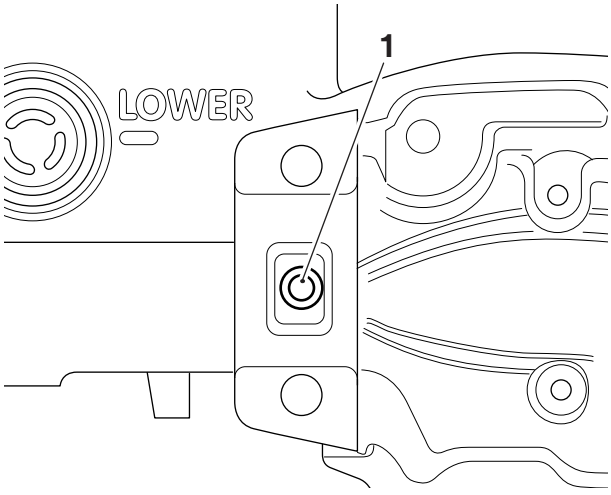
1. **Heated twist grip locating lug**
2. **Twist grip position sensor**
3. **Heated grip**

24. Pull the heated grip connector out of the handlebars and connect to the switch housing heated grip connector.
25. Slide the heated grip connection back until the connectors are inside the handlebars, as shown.



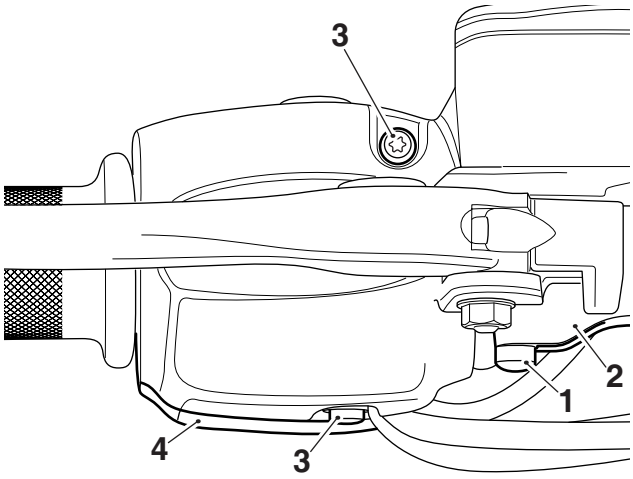
1. **Heated grip connector**
2. **Hole, handlebars**
3. **Switch housing**

26. Position the master cylinder to the handlebars and fit the twist grip position sensor to it. Tighten the fixings to **2.5 Nm**. Ensure the heated grip remains correctly fitted to the position sensor.
27. Position the master cylinder onto the handlebars ensuring the locating lug fits into its hole in the handlebars.



1. **Master cylinder locating lug**

28. Fit the master cylinder clamp and tighten the fixings, upper one first, to **12 Nm**.
29. Fit the switch housing to the master cylinder with the original fixings. Tighten the fixings to **1 Nm**.
30. Refit the brake light switch and bracket to the master cylinder with the original fixing. Tighten the fixing to **2.5 Nm**.



1. **Brake light switch fixing**
2. **Brake light switch and bracket**
3. **Switch housing fixings**
4. **Switch housing**

31. Reconnect the battery, positive (red) lead first and tighten the battery terminals to **4.5 Nm**.
32. Refit the seat, as described in the Service Manual.
33. Refit the left hand bar end mirror if fitted and/or bar end finisher, as described in the Service Manual.
34. Refit the right hand bar end mirror if fitted and/or bar end finisher with the spacer where applicable, as described in the Service Manual.

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 may lead to loss of motorcycle control and an accident.

35. 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.
36. Adjust the left hand and right hand mirrors to provide clear rear visibility in the normal riding position.

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.**

Warning

Never start the engine or let it run for any length of time in a closed area. The exhaust fumes are poisonous and may cause loss of consciousness and death within a short time. Always operate the motorcycle in the open-air or in an area with adequate ventilation.

1. Start the engine and allow to idle to avoid discharging the battery.
2. Check that the temperature of the heated grips increases.
3. Fuse number 6 (15 A), as described in the Service Manual, protects the heated grip circuit.

Operation

The heated grips button is located on the left hand grip.

The heated grips work when the ignition is switched on. However, it is recommended that they are only used when the engine is running to avoid draining the battery.

There are two heat levels; low or high.

Press the heated grip button to show the current status of the heated grips in the display screen. This is shown for three seconds.

Press the heated grip button whilst the status is showing to select one of the three different statuses; OFF, Lo (low) or HI (high).

For maximum benefit from cold conditions, use the heated grips in the HI status initially and when the grips have warmed up, change the status to Lo.

To switch off the heated grips, press and release the button until OFF is shown in the display screen. The heated grips are also switched off when the ignition is switched off.

Automatic Shutdown

If heated grips are fitted and are on with the engine not running, over a period of time, the battery voltage may drop below 11.8 Volts and 'LoBAtt' is then shown in the display screen for three seconds.

If the heated grips are on and 'LoBAtt' is shown, then the heated grips are automatically switched off to prevent further discharge of the battery. It is not possible to resume heated grip operation until the engine has been running and the battery voltage has increased above 11.8 Volts.

In the event of a short circuit issue, 'HgrOFF' is shown in the display screen and the heated grips are automatically switched off. The heated grips can be switched back on after 25 seconds.

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 motorcycle control and 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 motorcycle control and 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 may lead to loss of motorcycle control and an accident.