



Accessory Fitting Instructions

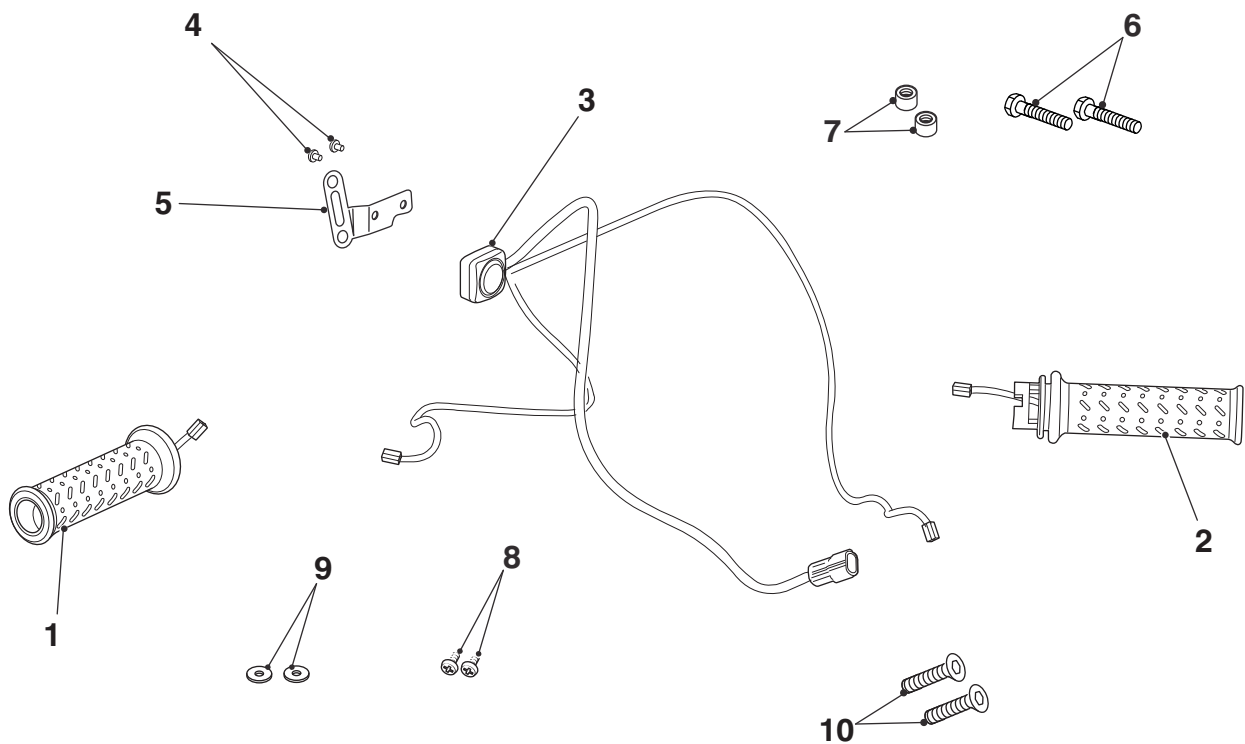
Heated Grip Kit	
Kit number	Models Affected
A9638171	Tiger Sport

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	6. Bolt, M6 x 35 mm	2 off
2. Heated grip, right hand	1 off	7. Spacer	2 off
3. Switch harness, heated grips	1 off	8. Screw, M4 x 10 mm	2 off
4. Screw, M4 x 5 mm	2 off	9. Washer	2 off
5. Bracket, switch	1 off	10. Screw, M6 x 50 mm	2 off



Warning

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 not 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 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.



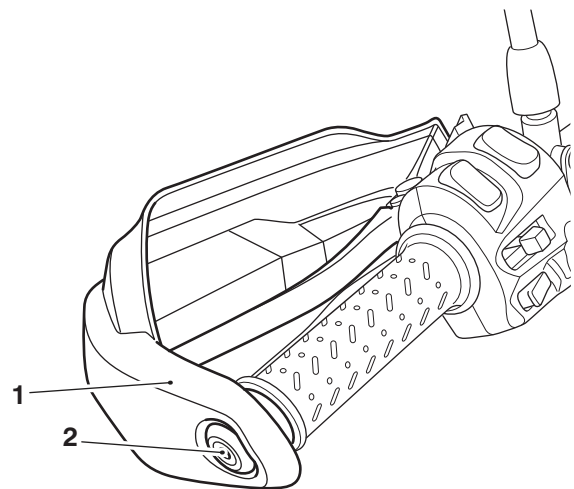
Warning

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.

Heated Grips

Removal

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



1. Handguard (left hand shown)
2. Fixing handlebar end weight

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.

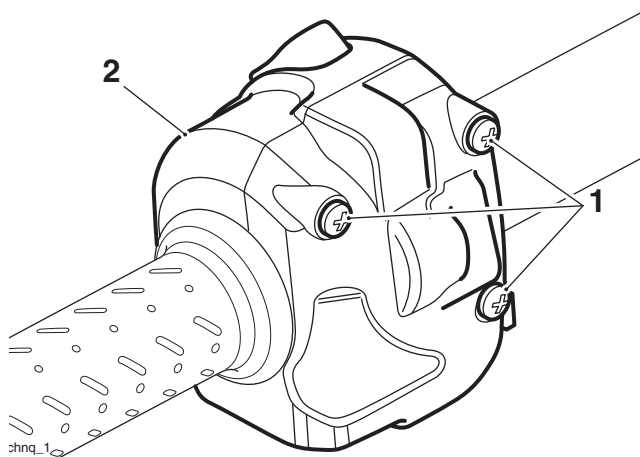


Warning

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 may result if this warning is ignored, which may result in loss of motorcycle control and an accident.

1. Release the three fixings and remove the rear of the right hand switch housing from the handlebar. Without disconnecting any wiring, position the switch housing aside. Retain the fixings for reuse.

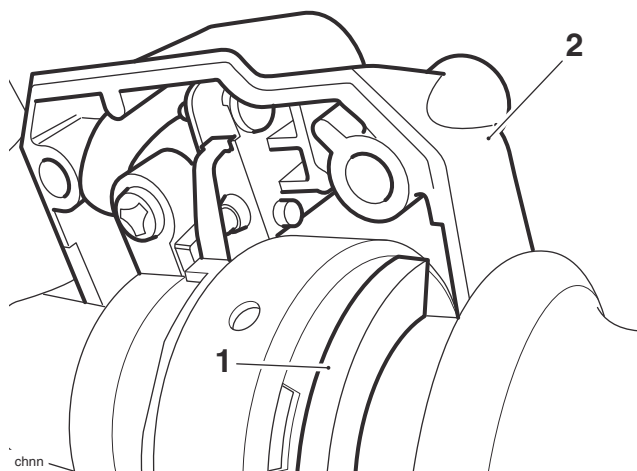


1. Fixings
2. Rear of switch housing

Note:

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

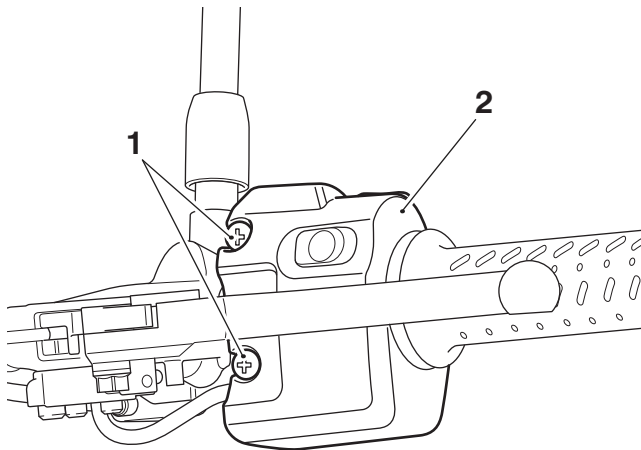
2. Slightly roll the twist grip rearwards until its guide is clear of the switch housing. Slide the twist grip off the handlebar. Retain the twist grip for reuse if the motorcycle is to be returned to its original condition.



1. Guide, twist grip
2. Switch housing

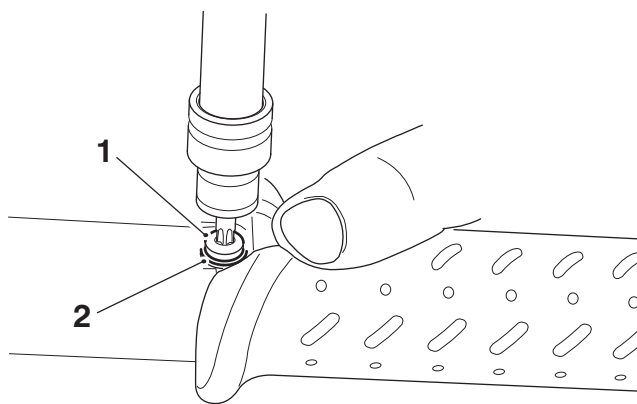
Left Hand Side

1. Release the two fixings and remove the rear of the left hand switch housing from the handlebar. Without disconnecting any wiring, position the switch housing aside. Retain the fixings for reuse.



1. Fixings
2. Rear of switch housing

2. Release the two fixings securing the left handlebar grip to the handlebar. Discard the fixings.



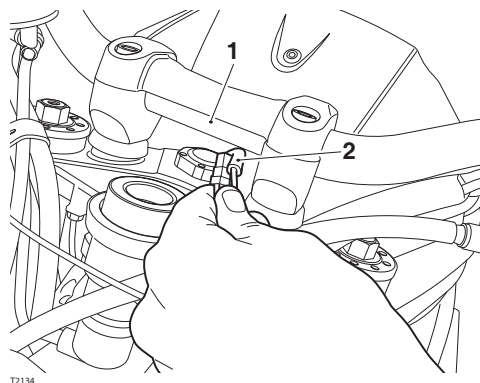
1. Fixing (one of two shown)
2. Washer
3. Slide the left handlebar grip off the handlebar.

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.

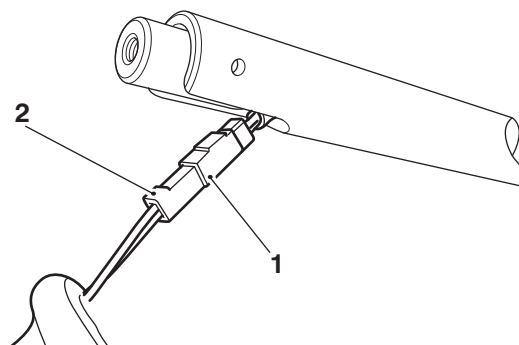
1. Collect the heated grip switch harness from the kit. Thread the heated grip cables into the large hole on the underside of the handlebar adjacent to the handlebar clamp and out through the holes in the handlebar end weight mounting.



1. Handlebar
2. Heated grip cable

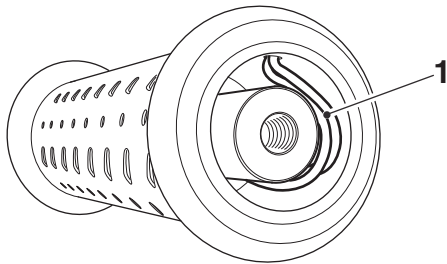
Left Hand Side

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



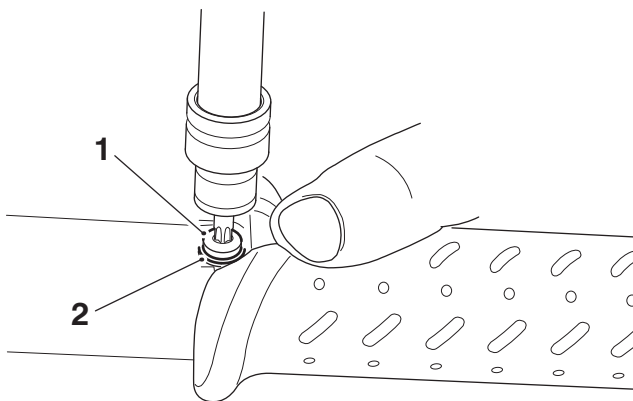
1. Harness electrical connector
2. Heated grip electrical connector

- 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

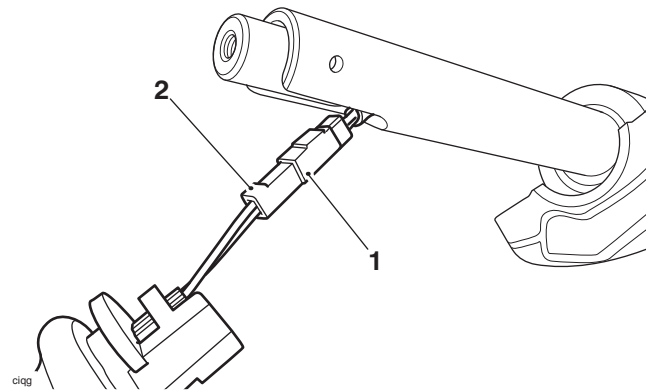
- Secure with the M4 x 10 mm fixings and washers provided in the kit. Tighten the fixings to **3 Nm**.



- Fixing (one of two shown)
- Washer

Right Hand Side

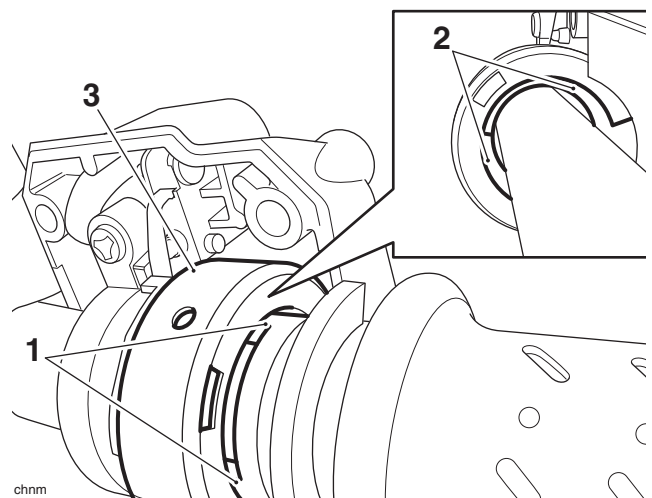
- Collect the right hand heated grip from the kit. Connect the electrical connector of the longer cable to the right hand heated grip (twist grip) electrical connector.



1. Harness electrical connector

2. Heated twist grip electrical connector

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



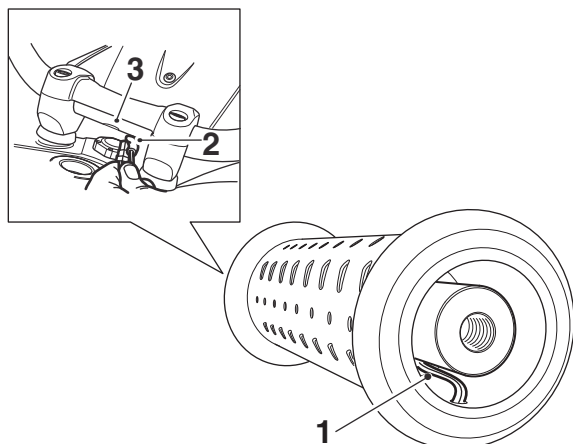
1. Locating lugs

2. Slots

3. Spring housing

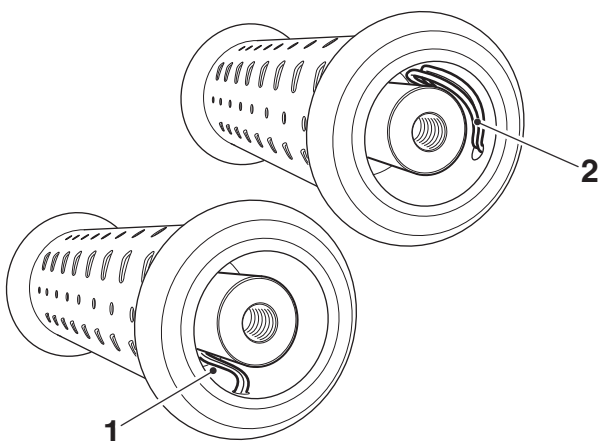
- To fully engage the heated grip, rotate it rearwards and gently push fully in.

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



1. Wire position (throttle off)
2. Heated grip harness
3. Handlebar

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



1. Wire position (throttle off)
2. Wire position (throttle on)

10. Refit the rear of the right hand switch housing. Tighten the fixings to **2.5 Nm**.



Caution

A wiring harness which becomes trapped or kinked during installation, or general motorcycle operation, may result in wiring harness damage and electrical malfunctions.

11. Ensure the throttle is fully closed and the electrical wires inside the twist grip have adequate slack to allow correct throttle operation.
12. Refit the rear of left hand switch housing. Tighten the fixings to **2.5 Nm**.
13. Refit the left hand and right hand handguards and handlebar end weights. Ensure the heated grip wires are not trapped between the handlebar and handlebar end weights. Collect the new fixings from the kit and tighten to **5 Nm**.



Warning

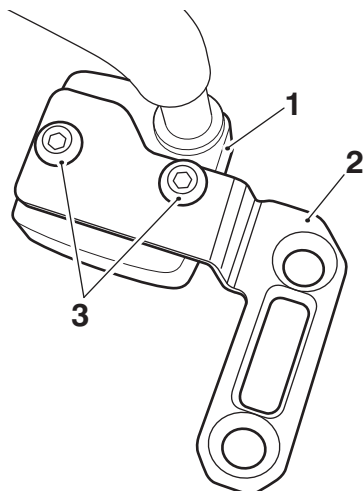
Check the operation of the right hand heated grip (twist grip). Ensure that the rearward and forward movement of the grip is smooth, without tightness and will return to the throttle closed position when released.

A tight or stuck twist grip may result in loss of motorcycle control and an accident.

14. 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.
15. If removed earlier, align the split line of the master cylinder/clamp with the alignment mark on the upper surface of the handlebar, then tighten the clamp fixings, upper first, to **12 Nm** as described in the Service Manual.

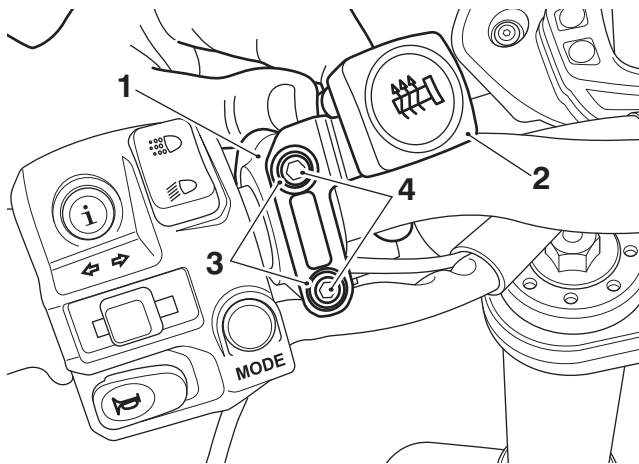
Switch Fitment

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



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 fixings provided, as shown below. Do not fully tighten the fixings at this stage.



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

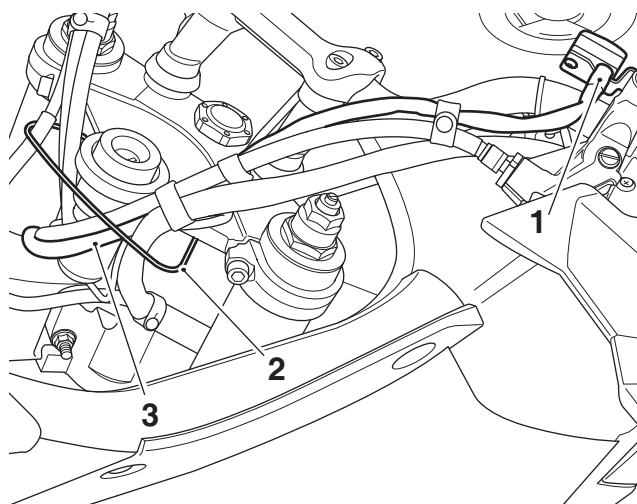
4. Align the split line of the clutch lever with the alignment mark on the upper surface of the handlebar, then tighten the clamp bolts, upper first, to **12 Nm**, as described in the Service Manual.



Warning

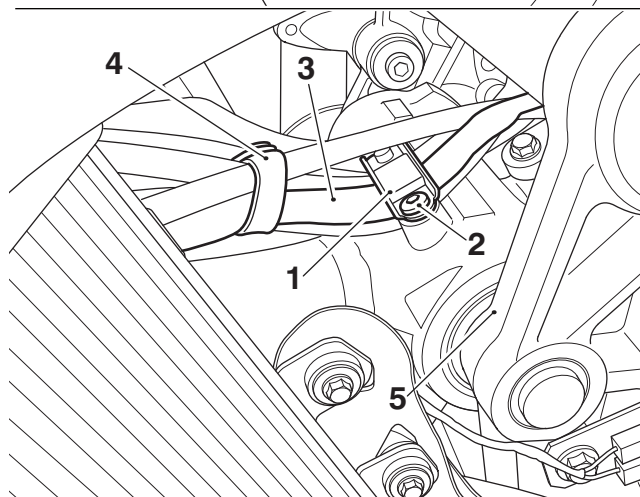
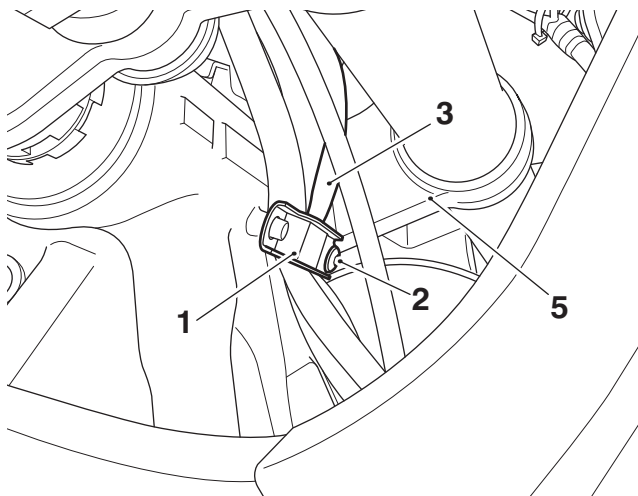
Move the handlebars to the left and right full lock while checking that the cables and harness do not bind. A cable or harness that binds will restrict the steering and may result in loss of motorcycle control and an accident.

5. Following the route of the clutch cable, pass the heated grip switch harness through the cable guide on the headstock as shown.



1. Heated grip switch
2. Wire guide
3. Heated grip switch harness

6. Route the heated grip switch harness through the bracket which secures the right hand switch harness to the right side of the headstock. Retain the harness with the rubber strap.



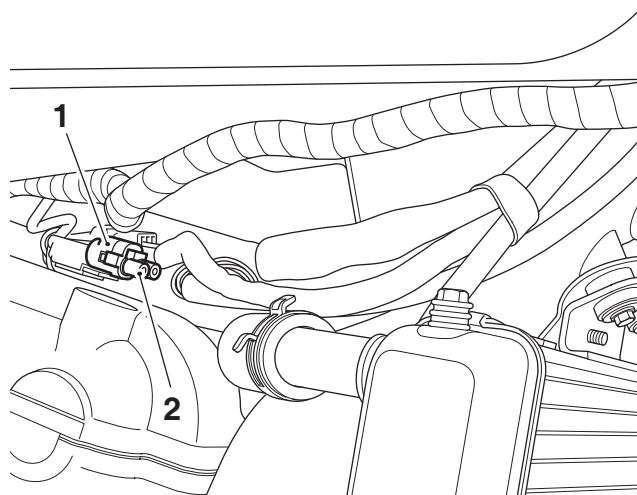
1. Bracket
2. Fixing
3. Harness
4. Rubber strap
5. Lower yoke (right hand side)



Caution

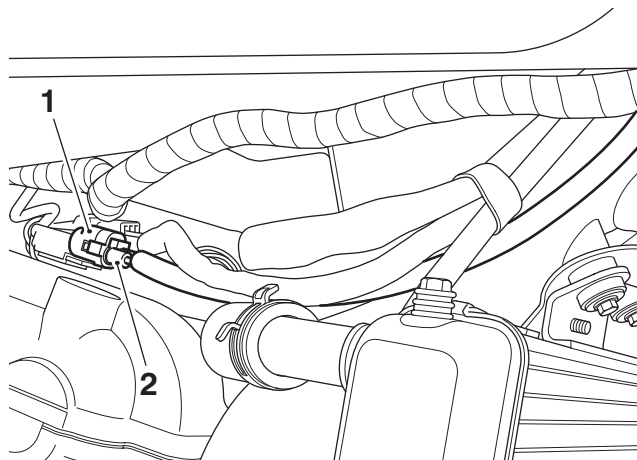
Blanking plugs are fitted to the harness electrical connectors to prevent water ingress. If the blanking plugs are removed for any reason, they should always be refitted. The harness electrical connectors should never be left exposed without the blanking plugs fitted as this may lead to a malfunction, or premature failure of components.

7. Identify the main wiring harness electrical connector on the main wiring harness (located under the right hand side fairing) and remove the blanking plug. Retain the blanking plug if the motorcycle is to be returned to its original condition.



1. Electrical connector
2. Blanking plug

8. Connect the heated grip harness electrical connector to the main harness electrical connector.



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

9. Refit the right hand side fairing as described in the Service Manual.
10. Reconnect the battery, positive (red) lead first and tighten the battery terminals to **4.5 Nm**.
11. 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 discharging the battery.
 2. Operate the switch at both positions and check that the heated grips warm up.
 3. Fuse number 9 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 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 result in 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 result in loss of motorcycle control and an accident.