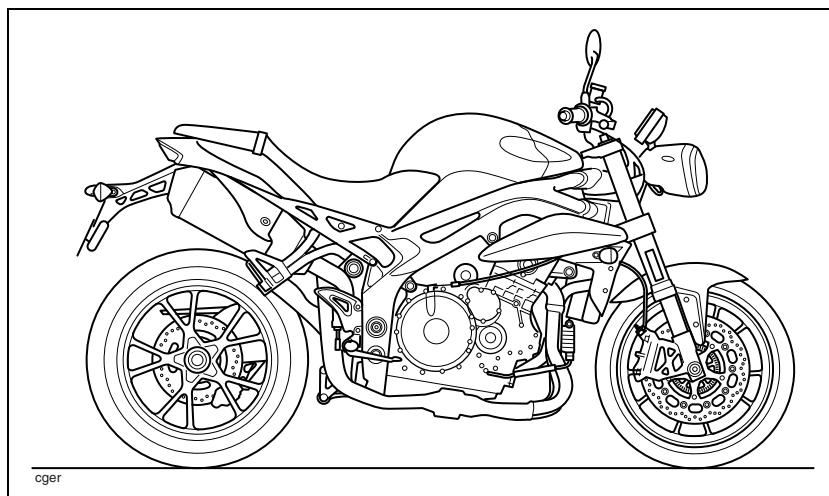


## Foreword

### FOREWORD

This handbook contains information on the Triumph Speed Triple motorcycle. Always store this owner's handbook with the motorcycle and refer to it for information whenever necessary.



### Warnings, Cautions and Notes

Throughout this owner's handbook particularly important information is presented in the following form:

#### Warning

This warning symbol identifies special instructions or procedures, which, if not correctly followed, could result in personal injury, or loss of life.

#### Caution

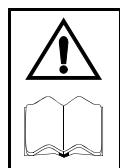
This caution symbol identifies special instructions or procedures, which, if not strictly observed, could result in damage to, or destruction of, equipment.

#### Note:

- This note symbol indicates points of particular interest for more efficient and convenient operation.

## Foreword

### Warning Labels



At certain areas of the motorcycle, the symbol (left) can be seen. The symbol means 'CAUTION: REFER TO THE HANDBOOK' and will be followed by a pictorial representation of the subject concerned.

Never attempt to ride the motorcycle or make any adjustments without reference to the relevant instructions contained in this handbook.

See pages **10** and **11** for the location of all labels bearing this symbol. Where necessary, this symbol will also appear on the pages containing the relevant information.

### Maintenance

To ensure a long, safe and trouble free life for your motorcycle, maintenance should only be carried out by an authorised Triumph dealer.

Only an authorised Triumph dealer will have the necessary knowledge, equipment and skills to maintain your Triumph motorcycle correctly.

To locate your nearest Triumph dealer, visit the Triumph web site at [www.triumph.co.uk](http://www.triumph.co.uk) or telephone the authorised distributor in your country. Their address is given in the service record book that accompanies this handbook.

### Noise Control System

Tampering with the Noise Control System is Prohibited.

Owners are warned that the law may prohibit:

- The removal or rendering inoperative by any person other than for purposes of maintenance, repair or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use and,
- the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

### Immobiliser and Tyre Pressure Monitoring System

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- This device may not cause harmful interference;
- This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications to the device could void the user's authority to operate the equipment.

## Foreword

### Owner's Handbook

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

Please read this owner's handbook before riding in order to become thoroughly familiar with the correct operation of your motorcycle's controls, its features, capabilities and limitations.

This handbook includes safe riding tips, but does not contain all the techniques and skills necessary to ride a motorcycle safely.

Triumph strongly recommends that all riders undertake a safety course approved by the Motorcycle Safety Foundation to ensure safe operation of this motorcycle. Information about the nearest Motorcycle Safety Foundation course to you can be obtained by calling the following nationwide toll free number: 800-447-4700, or by writing to the Motorcycle Safety Foundation at: 2, Jenner Street, Irvine, California 92718.

This handbook is also available from your local dealers in:

- French;
- German;
- Spanish;
- Italian;
- Dutch;
- Japanese;
- Swedish.

### Warning

This owner's handbook, and all other instructions that are supplied with your motorcycle, should be considered a permanent part of your motorcycle and should remain with it even if your motorcycle is subsequently sold.

All riders must read this owner's handbook and all other instructions which are supplied with your motorcycle, before riding, in order to become thoroughly familiar with the correct operation of your motorcycle's controls, its features, capabilities and limitations. Do not lend your motorcycle to others as riding when not familiar with your motorcycle's controls, features, capabilities and limitations can lead to an accident.

### Talk to Triumph

Our relationship with you does not end with the purchase of your Triumph. Your feedback on the buying and ownership experience is very important in helping us develop our products and services for you. Please help us by ensuring your dealership has your E-mail address and registers this with us. You will then receive an online customer satisfaction survey invitation to your E-mail address where you can give us this feedback.

Your Triumph Team.

## **Foreword**

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### **Information**

The information contained in this publication is based on the latest information available at the time of printing. Triumph reserves the right to make changes at any time without prior notice, or obligation.

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### **Table of Contents**

This handbook contains a number of different sections. The table of contents below will help you find the beginning of each section where, in the case of the major sections, a further table of contents will help you find the specific subject required.

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## Foreword - Safety First

### FOREWORD - SAFETY FIRST

#### The Motorcycle

##### Warning

This motorcycle is designed for on-road use only. It is not suitable for off-road use. Off-road operation could lead to loss of control of the motorcycle resulting in an accident causing injury or loss of life.

##### Warning

This motorcycle is not designed to tow a trailer or be fitted with a sidecar. Fitting a sidecar and/or a trailer may result in loss of control and an accident.

##### Warning

This motorcycle is designed for use as a two-wheeled vehicle capable of carrying a rider on his/her own, or a rider and one passenger (subject to a passenger seat being fitted).

The total weight of the rider, and any passenger, accessories and luggage must not exceed the maximum load limit of 430 lbs (195 kg).

#### Fuel and Exhaust Fumes

##### Warning

##### **GASOLINE IS HIGHLY FLAMMABLE:**

Always turn off the engine when refuelling. Do not refuel or open the fuel filler cap while smoking or in the vicinity of any open (naked) flame.

Take care not to spill any gasoline on the engine, exhaust pipes or mufflers when refuelling.

If gasoline is swallowed, inhaled or allowed to get into the eyes, seek immediate medical attention.

Spillage on the skin should be immediately washed off with soap and water and clothing contaminated with gasoline should immediately be removed.

Burns and other serious skin conditions may result from contact with gasoline.

##### Warning

Never start your 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 your motorcycle in the open-air or in an area with adequate ventilation.

## Foreword - Safety First

### Riding

#### ! Warning

Never ride the motorcycle when fatigued or under the influence of alcohol or other drugs.

Riding when under the influence of alcohol or other drugs is illegal.

Riding when fatigued or under the influence of alcohol or other drugs reduces the rider's ability to maintain control of the motorcycle and may lead to loss of control and an accident.

#### ! Warning

This Triumph motorcycle should be operated within the legal speed limits for the particular road travelled. Operating a motorcycle at high speeds can be potentially dangerous since the time available to react to given traffic situations is greatly reduced as road speed increases. Always reduce speed in potentially hazardous driving conditions such as bad weather or heavy traffic.

#### ! Warning

Continually observe and react to changes in road surface, traffic and wind conditions. All two-wheeled vehicles are subject to external forces which may cause an accident. These forces include but are not limited to:

- Wind draft from passing vehicles;
- Potholes, uneven or damaged road surfaces;
- Bad weather;
- Rider error.

Always operate the motorcycle at moderate speed and away from heavy traffic until you have become thoroughly familiar with its handling and operating characteristics. Never exceed the legal speed limit.

#### ! Warning

Always ride defensively and wear the protective equipment mentioned elsewhere in this foreword. Remember, in an accident, a motorcycle does not give the same impact protection as a car.

## Foreword - Safety First

---

### **Warning**

Ensure that you know and respect the rules of the road. Read and observe publications such as 'MOTORCYCLE SAFETY', 'YOU AND YOUR MOTORCYCLE, RIDING TIPS' and also read and become familiar with the contents of the MOTORCYCLE HANDBOOK for your state.

### **Caution**

This Triumph motorcycle is not fitted with spark arresters. Operation in forests, brush or grass areas may violate state and local laws and regulations.

#### **Note:**

#### **Wobble/Weave**

A weave is a relatively slow oscillation of the rear of the motorcycle, while a wobble is a rapid, possibly strong shaking of the handlebar. These are related but distinct stability problems usually caused by excessive weight in the wrong place, or by a mechanical problem such as worn or loose bearings or under-inflated or unevenly worn tires.

Your solution to both situations is the same. Keep a firm hold on the handlebars without locking arms or fighting the steering. Smoothly ease off the throttle to slow gradually. Do not apply the brakes, and do not accelerate to try to stop the wobble or weave. In some cases, it helps to shift your body weight forward by leaning over the tank.

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## Foreword - Safety First

### Helmet and Clothing

#### ⚠ Warning

When riding the motorcycle, both rider and passenger must always wear a motorcycle helmet, boots, eye protection, gloves, trousers (close fitting around the knee and ankle) and a brightly colored jacket. Brightly colored clothing will considerably increase a rider's (or passenger's) visibility to other operators of road vehicles. Although full protection is not possible, wearing correct protective clothing can reduce the risk of injury when riding.

#### ⚠ Warning

A helmet is one of the most important pieces of riding gear as it offers protection against head injuries. You and your passenger's helmet should be carefully chosen and should fit you or your passenger's head comfortably and securely. A brightly colored helmet will increase a rider's (or passenger's) visibility to other operators of road vehicles.

An open face helmet offers some protection in an accident though a full face helmet will offer more.

Always wear a visor or approved goggles to help vision and to protect your eyes.



When choosing a helmet, always look for a DOT (Department of Transport) sticker indicating that the helmet has DOT approval. Do not buy a helmet without DOT approval.

## Foreword - Safety First

### Handlebars and Footrests

#### ⚠ Warning

The rider must maintain control of the vehicle by keeping hands on the handlebars at all times.

The handling and stability of a motorcycle will be adversely affected if the rider removes his hands from the handlebars, resulting in loss of motorcycle control and an accident.

#### ⚠ Warning

The rider and passenger must always use the footrests provided, during operation of the vehicle.

By using the footrests, both rider and passenger will reduce the risk of inadvertent contact with any motorcycle components and will also reduce the risk of injury from entrapment of clothing.

### Parking

#### ⚠ Warning

Always turn off the engine and remove the ignition key before leaving the motorcycle unattended. By removing the key, the risk of use of the motorcycle by unauthorized or untrained persons is reduced.

When parking the motorcycle, always remember the following:

Engage first gear to help prevent the motorcycle from rolling off the stand.

The engine and exhaust system will be hot after riding. DO NOT park where pedestrians, animals and/or children are likely to touch the motorcycle.

Do not park on soft ground or on a steeply inclined surface. Parking under these conditions may cause the motorcycle to fall over.

For further details, please refer to the 'How to Ride the Motorcycle' section of this owner's handbook.

## Foreword - Safety First

### Parts and Accessories

#### ⚠ Warning

Owners should be aware that the only approved parts, accessories and conversions for any Triumph motorcycle are those which carry official Triumph approval and are fitted to the motorcycle by an authorized dealer.

In particular, it is extremely hazardous to fit or replace parts or accessories whose fitting requires the dismantling of, or addition to, either the electrical or fuel systems and any such modification could cause a safety hazard.

The fitting of any non-approved parts, accessories or conversions may adversely affect the handling, stability or other aspect of the motorcycle operation that may result in an accident causing injury or death.

Triumph does not accept any liability whatsoever for defects caused by the fitting of non-approved parts, accessories or conversions or the fitting of any approved parts, accessories or conversions by non-approved personnel.

### Maintenance/Equipment

#### ⚠ Warning

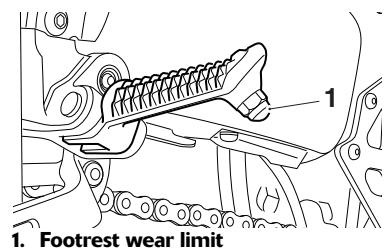
Consult your authorized Triumph dealer whenever there is doubt as to the correct or safe operation of this Triumph motorcycle.

Remember that continued operation of an incorrectly performing motorcycle may aggravate a fault and may also compromise safety.

#### ⚠ Warning

Use of a motorcycle with the bank angle indicator worn beyond the maximum limit (when 5 mm of the bank indicator remains) will allow the motorcycle to be banked to an unsafe angle.

Banking to an unsafe angle may cause instability, loss of motorcycle control and an accident.



## Foreword - Safety First

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### Warning

Ensure all equipment that is required by law is installed and functioning correctly. The removal or alteration of the motorcycle's lights, mufflers, emission or noise control systems can violate the law. Incorrect or improper modification may adversely affect the handling, stability or other aspect of the motorcycle operation, which may result in an accident causing injury or death.

### Warning

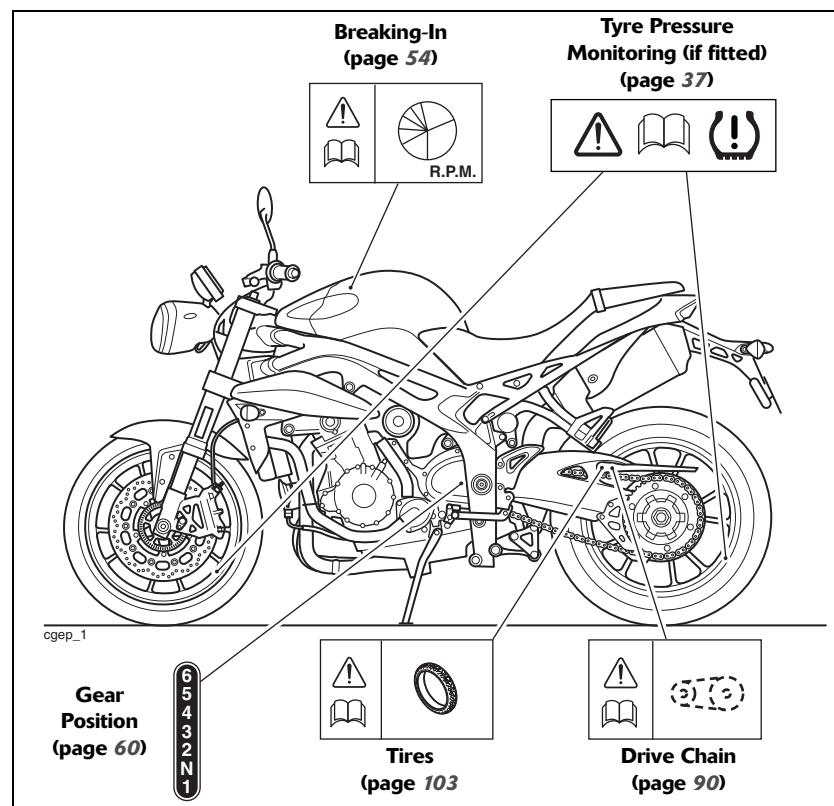
If the motorcycle is involved in an accident, collision or fall, it must be taken to an authorized Triumph dealer for inspection and repair. Any accident can cause damage to the motorcycle that, if not correctly repaired, may cause a second accident that may result in injury or death.

## Warning Labels

### WARNING LABELS

The labels detailed on this and the following pages draw your attention to important safety information in this handbook. Before riding, ensure that all riders have understood and complied with all the information to which these labels relate.

#### Warning Label Locations

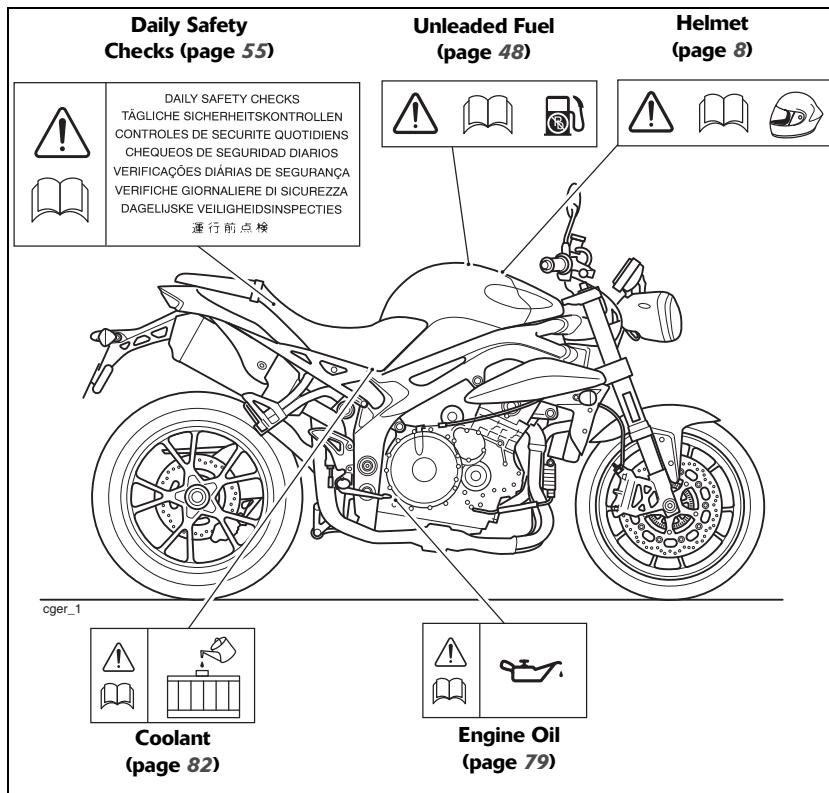


## Warning Labels

### Warning Labels Locations (continued)

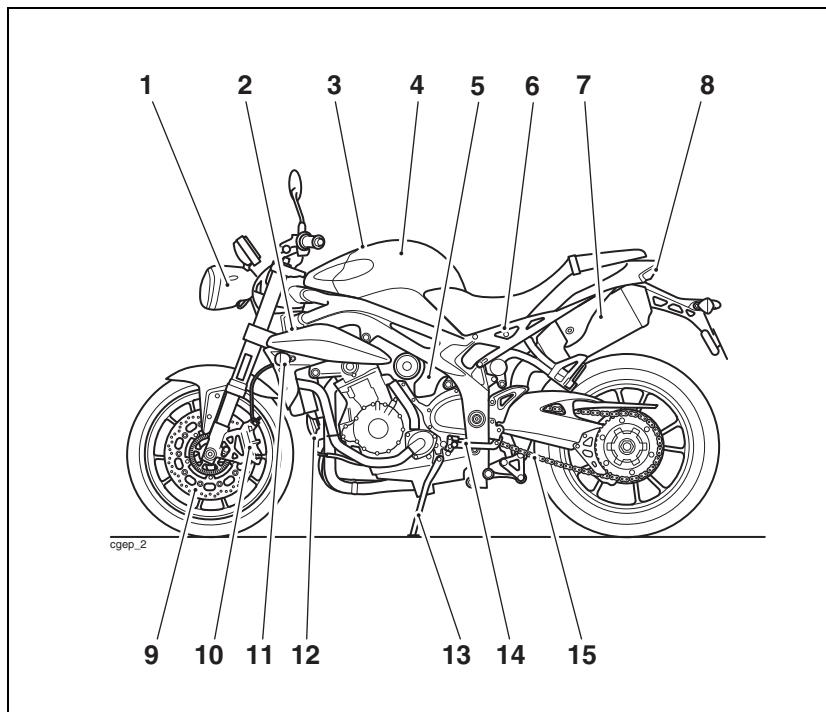
#### ⚠ Caution

All warning labels and decals, with the exception of the Breaking-in label, are fitted to the motorcycle using a strong adhesive. In some cases, labels are installed prior to an application of paint lacquer. Therefore, any attempt to remove the warning labels will cause damage to the paintwork or bodywork.



## Parts Identification

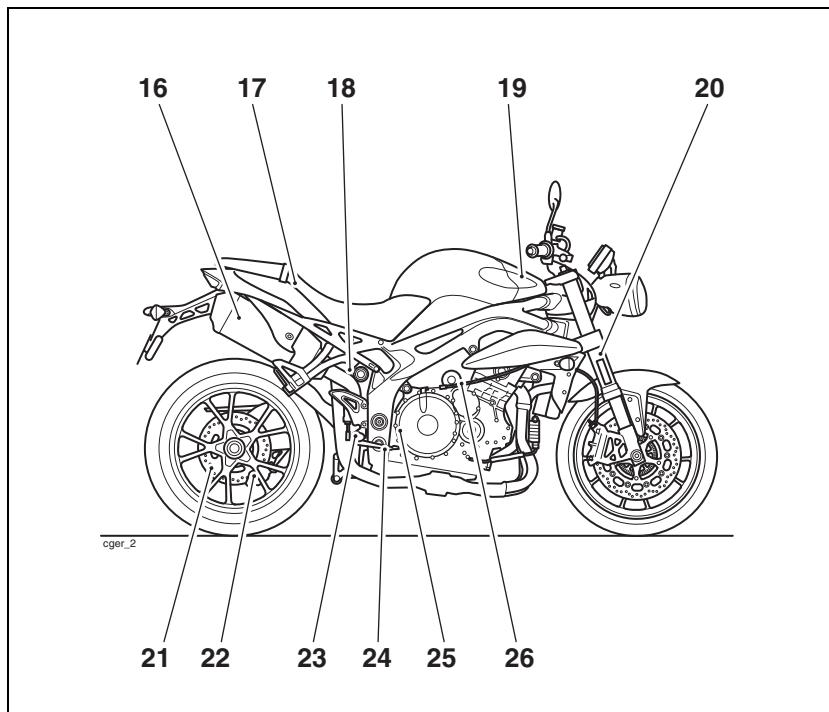
### PARTS IDENTIFICATION



- |                                  |                         |
|----------------------------------|-------------------------|
| 1. Headlight                     | 9. Front brake disc     |
| 2. Radiator/Coolant pressure cap | 10. Front brake caliper |
| 3. Fuel filler cap               | 11. Front turn signal   |
| 4. Fuel tank                     | 12. Oil cooler          |
| 5. Coolant expansion tank        | 13. Side stand          |
| 6. Seat lock                     | 14. Gearshift pedal     |
| 7. Muffler                       | 15. Drive chain         |
| 8. Brake/Tail light              |                         |

## Parts Identification

### PARTS IDENTIFICATION



16.Muffler

17.Tool kit

18.Rear brake fluid reservoir

19.Battery

20.Front fork

21.Rear brake disc

22.Rear brake caliper

23.Rear suspension unit

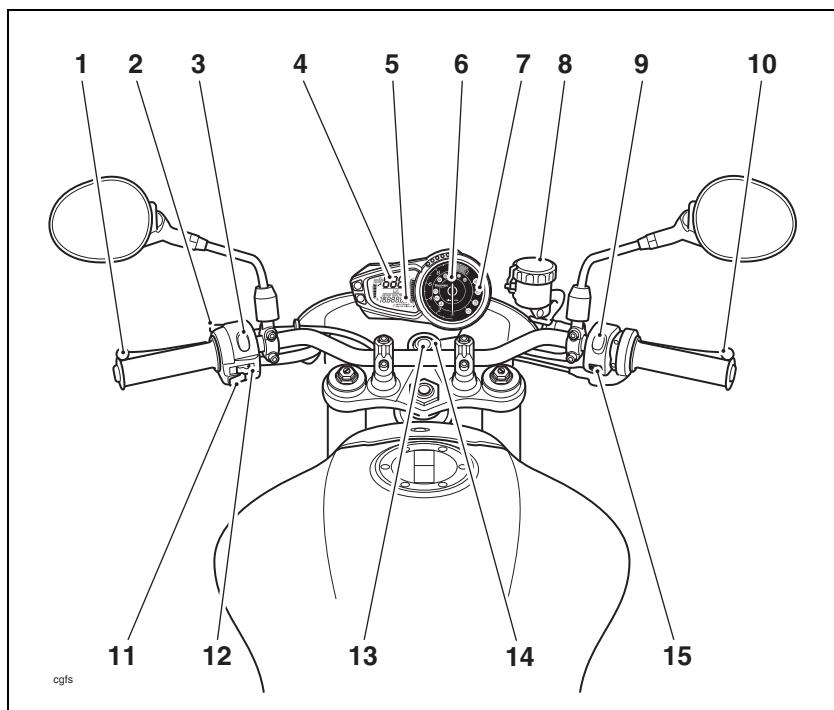
24.Rear brake pedal

25.Oil filler cap/Dipstick

26.Clutch cable

## Parts Identification

### Parts Identification (continued)

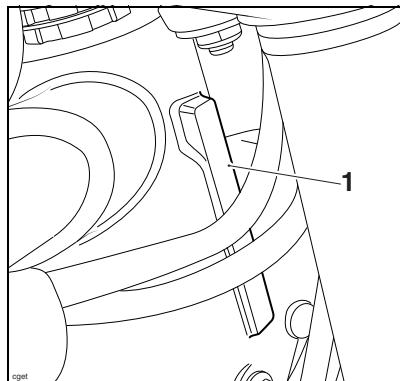


- |                            |                                |
|----------------------------|--------------------------------|
| 1. Clutch lever            | 8. Front brake fluid reservoir |
| 2. Passing button          | 9. Engine stop switch          |
| 3. Headlight dimmer switch | 10. Front brake lever          |
| 4. Speedometer             | 11. Horn button                |
| 5. Trip computer display   | 12. Turn signal switch         |
| 6. Tachometer              | 13. Ignition switch            |
| 7. Warning lights          | 14. Immobilizer                |
|                            | 15. Starter button             |

## Serial Numbers

### SERIAL NUMBERS

#### Vehicle Identification Number (VIN)

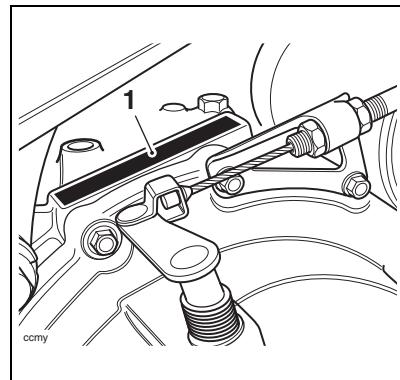


##### 1. VIN number

The vehicle identification number is stamped into the steering head area of the frame. In addition, it is displayed on a label which is also adjacent to the steering head.

Record the vehicle identification number in the space provided below.

#### Engine Serial Number



##### 1. Engine serial number

The engine serial number is stamped on the engine crankcase, immediately above the clutch cover.

Record the engine serial number in the space provided below.

## **Serial Numbers**

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## **General Information**

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### **GENERAL INFORMATION**

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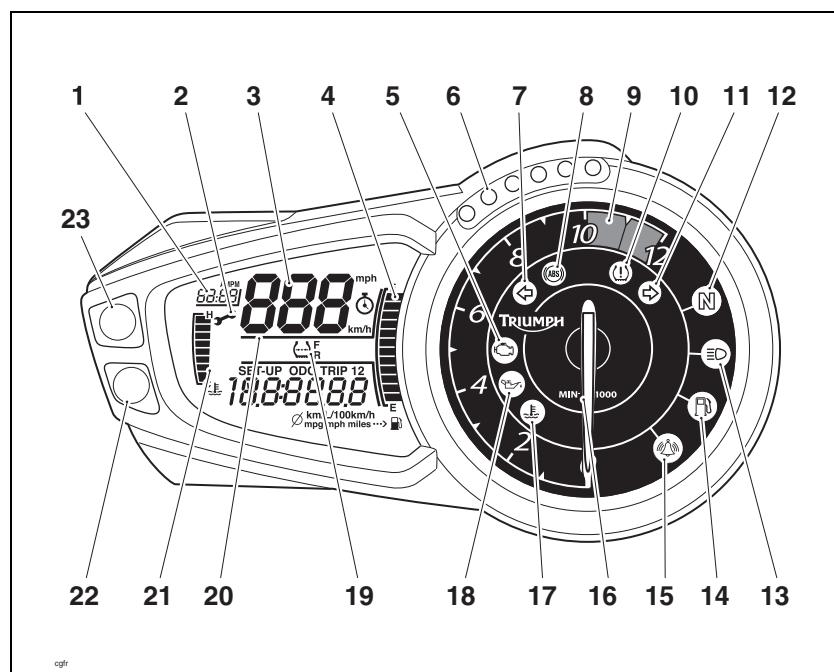
## **General Information**

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## General Information

### Instrument Panel Layout



1. Clock  
2. Service interval indicator  
3. Speedometer  
4. Fuel gauge  
5. Engine management malfunction indicator light  
6. Gear change lights  
7. Left hand turn signal indicator light  
8. ABS warning light (ABS models only)  
9. Tachometer 'red zone'  
10. Tire pressure warning light (if fitted)  
11. Right hand turn signal indicator light  
12. Neutral indicator light  
13. High beam indicator light  
14. Low fuel level indicator light  
15. Alarm/immobiliser status indicator light (alarm is an accessory)  
16. Tachometer  
17. High coolant temperature warning light  
18. Low oil pressure warning light  
19. Tire pressure display (if fitted)  
20. Display screen  
21. Coolant temperature display  
22. Button B  
23. Button A

## General Information

### Speedometer and Odometer

The digital speedometer indicates the road speed of the motorcycle. The read-out displays the motorcycle road speed in increments of one mile (or kilometer) per hour.

The electronic odometer and two trip meters are in the display screen. For details of the operation of the odometer and trip meters, please refer to the following pages.

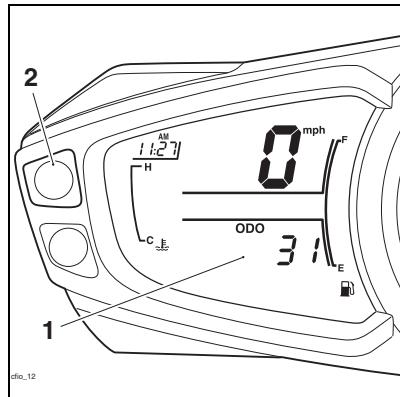
### Tachometer

The tachometer shows the engine speed in revolutions per minute - rpm (r/min). At the end of the tachometer range there is the 'red zone'. Engine rpm (r/min) in the red zone is above maximum recommended engine speed and is also above the range for best performance.

#### Caution

Never allow engine rpm to enter the 'red zone' as severe engine damage may result.

### Trip Computer



1. Display screen

2. Button A

To access the trip computer information press and release button 'A' until the desired display is visible. The display will scroll through in the following order:

- Trip Meter 1
- Trip Meter 2
- Lap timer
- Tire Pressure Monitoring system - if fitted
- Set up

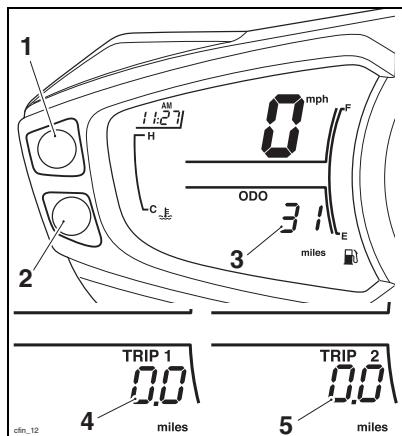
#### Note:

- The lap timer (lap) will only be displayed if it is turned on in set up (see page 32).

## General Information

- The tire pressure monitoring system (TPMS) is an accessory which must be installed by your authorized Triumph dealer. The TPMS display will then be activated by your authorized Triumph dealer.
- Set up is only accessible when the motorcycle is stationary and in neutral.

### Odometer/Trip Meter



1. Button A
2. Button B
3. Odometer/Trip meter display
4. Trip meter 1 display
5. Trip meter 2 display

### Trip Meter

Either trip meter shows the distance that the motorcycle has travelled, trip time, average fuel consumption, instantaneous fuel consumption and average speed, all since the trip meter on display was last reset to zero.

To access the trip meter information, turn the ignition to the ON position. Press and release button 'A' until the desired trip meter is visible in the display screen.

Press and release button 'B' until the desired display is visible. The display will scroll through in the following order:

- Trip distance
- Range to empty
- Trip time
- Average fuel consumption
- Instantaneous fuel consumption
- Average speed

Each display provides the following information all calculated since the trip meter was last reset to zero:

#### Trip Distance

The total distance travelled.

#### Range to Empty

This is an indication of the probable distance that can be travelled on the remaining fuel in the tank

#### Trip Time

The total time elapsed.

#### Average Fuel Consumption

An indication of the average fuel consumption. After being reset the display will show dashes until 0.1 mile/km has been covered.

## General Information

### Instantaneous Fuel Consumption

An indication of the fuel consumption at an instant in time.

### Average Speed

The average speed is calculated from when the trip computer was last reset. After being reset the display will show dashes until 1 mile/km has been covered.

#### Warning

Do not attempt to switch between odometer and trip meter display modes or reset the trip meter with the motorcycle in motion as this may lead to loss of motorcycle control and an accident.

### Odometer

When the ignition is switched on, the odometer will be displayed for 3 seconds then the last selected trip meter will be shown.

The odometer shows the total distance that the motorcycle has travelled.

To access the odometer, with the motorcycle stationary and in neutral press and release button 'A' until set up is visible in the display screen then press button 'B'. Press and release button 'A' until odometer is visible.

To exit odometer, press and release button 'A' until return is visible then press button 'B'. Trip 1 will be visible in the display screen.

### Trip Meter Reset

To reset either of the trip meters, select and display the trip meter to be zeroed then press button 'B' for 2 seconds. After 2 seconds, the trip meter on display will reset to zero.

#### Note:

- When a trip meter is reset to zero, the trip time, average fuel consumption and average speed will also be set to zero for that trip meter.

To exit the trip meter, press and release button 'A' until the desired display is visible.

## General Information

### Clock Adjustment

#### Warning

Do not attempt to adjust the clock with the motorcycle in motion as this may lead to loss of motorcycle control and an accident.

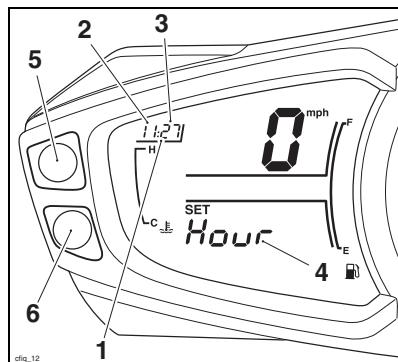
To reset the clock, with the motorcycle stationary and in neutral turn the ignition to the ON position. Press and release button 'A' until set up is visible in the display screen. Press button 'B' and t-SEt will be visible.

Press button 'B' again and either 24 Hr or 12 Hr clock will be shown. Press button 'A' to select the desired clock display and then press button 'B'. The hour display will start to flash and the word Hour is visible in the display screen.

To reset the hour display, ensure that the hour display is still flashing and the word Hour is visible. Press button 'A' to change the setting. Each individual button press will change the setting by one digit. If the button is held, the display will continuously scroll through in single digit increments.

When the correct hour display is shown, press button 'B'. The minutes display will begin to flash and the word Min is visible in the display screen. The minutes display is adjusted in the same way as for the hours.

Once both hours and minutes are correctly set, press button 'B' to confirm and t-SEt will be visible in the display screen. Press and release button 'A' until rEturn is visible then press button 'B'. Trip 1 will be visible in the display screen.



1. Clock display
2. Hours read-out
3. Minutes read-out
4. Display screen (Hour selected for adjustment)
5. Button A
6. Button B

## General Information

### Changing Units (Imperial, US or Metric)

Units has four selectable display modes as described below:

- mpg - Imperial gallons;
- mpg US - US gallons;
- L/100 km - Metric;
- km/L - Metric.

Each display provides the following information:

#### mpg (Imperial gallons)

The speedometer and odometer will read in miles. The fuel consumption will be measured in imperial gallons.

#### mpg US (US gallons)

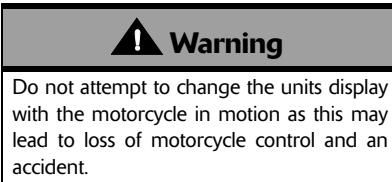
The speedometer and odometer will read in miles. The fuel consumption will be measured in US gallons.

#### L/100 km (Metric)

The speedometer and odometer will read in kilometers. The fuel consumption will be measured in liters of fuel per 100 km.

#### km/L (Metric)

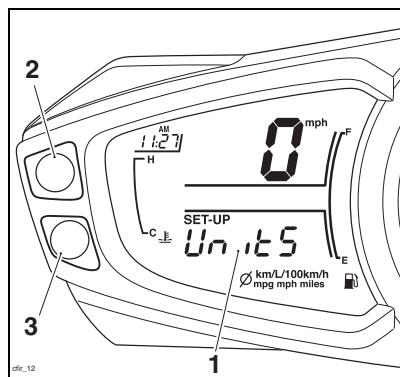
The speedometer and odometer will read in kilometers. The fuel consumption will be measured in kilometers per liter of fuel.



To access the units display, with the motorcycle stationary and in neutral turn the ignition to the ON position.

Press and release button 'A' until set up is visible in the display screen then press button 'B'.

Press and release button 'A' until UnitS is visible then press button 'B'.



1. Display screen
2. Button A
3. Button B

## General Information

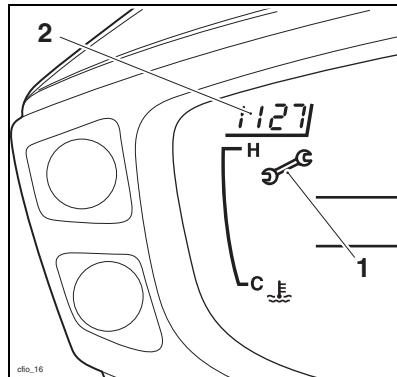
Press and release button 'A' until the desired display is visible. The display will scroll through in the following order:

- mpg - Imperial gallons;
- mpg US - US gallons;
- L/100 km - Metric;
- km/L - Metric.

Models without TPMS: Press button 'B' and do not touch buttons 'A' or 'B' again until UnitS is visible in the display screen. When UnitS is visible in the display screen, press and release button 'A' until rEturn is visible then press button 'B'. Trip 1 will be visible in the display screen.

Models with TPMS: Press button 'B' and do not touch buttons 'A' or 'B' again until PSI or bAr is displayed. Press and release button 'A' until the desired tire pressure units are visible. Press button 'B' and wait until UnitS is displayed, then press button 'A' and when rEturn is displayed press button B. Trip 1 will be visible in the display screen.

### Service Interval Indicator



**1. Service indicator**

**2. Remaining distance**

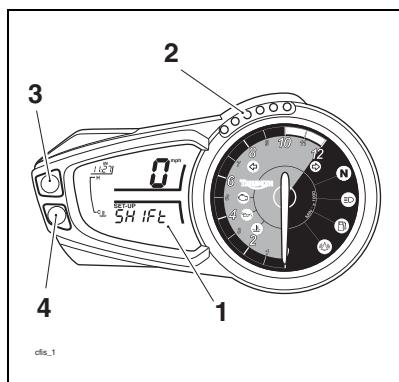
When the ignition is switched on and the distance to the next service is 500 miles (800 km) or less, the service symbol will be displayed for 3 seconds and the clock will show the distance remaining before the next service.

When the remaining distance is 0 miles (0 km) the service symbol will remain on until the service has been carried out and the system has been reset by your authorized Triumph dealer. If the service is overdue, the distance will be displayed as a negative number.

## General Information

### Gearshift Lights

The gearshift lights provide a visual indication of when to shift gear. The gear change lights are all colored blue.



1. Display screen
2. Gearshift lights
3. Button A
4. Button B

### Gearshift Light Modes

The gearshift lights have four programmable operating modes as described below:

- 3 LED mode: The first three lights illuminate when the set limit is reached, and remain illuminated until the engine speed drops below the set limit.
- 6 LED mode: All six lights illuminate when the set limit is reached, and remain illuminated until the engine speed drops below the set limit.
- OFF mode: The gearshift lights are turned OFF.
- SE mode: The lights will progressively illuminate in 250 rpm increments until the set limit is reached. At the set limit all six lights will be illuminated.

### Setting Gearshift Light Limits

The gearshift lights will not operate below 3,500 rpm to avoid the lights operating at idle.

To change the gearshift light modes, with the motorcycle stationary and in neutral turn the ignition to the ON position.

Press and release button 'A' until set up is visible in the display screen then press button 'B'.

Press and release button 'A' until SHIFT is visible then press button 'B'. The current mode will be displayed and the corresponding gearshift lights will illuminate.

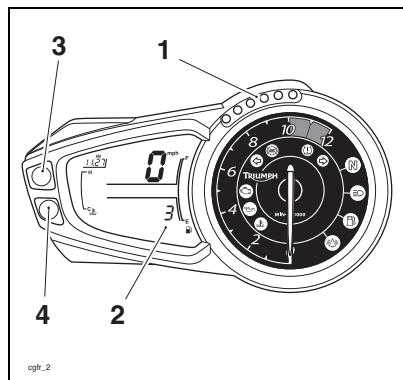
## General Information

Press and release button 'A' until the desired gearshift light mode is visible then press button 'B'. The display will scroll through in the following order:

- SE (Scale mode);
- 3 (3 LED mode);
- 6 (6 LED mode);
- OFF (Gearshift lights off).

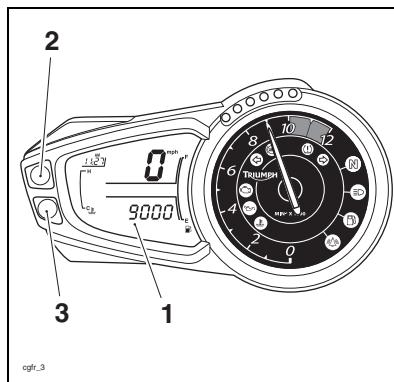
### Note:

- **The motorcycle is delivered from the factory with the gearshift light set to the 6 LED mode at 3,500 rpm.**



1. Gearshift lights
2. Display screen (3 mode shown)
3. Button A
4. Button B

When the gearshift light mode has been selected, the tachometer needle will move round to the last set position. The rpm will be shown in the display screen with the 1,000 units flashing.



1. RPM 1,000 units
2. Button A
3. Button B

### Changing the Set Speed

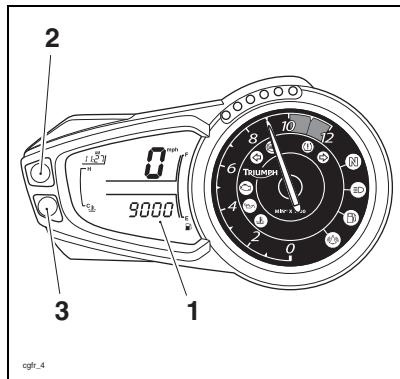
To change the setting in increments of 1,000 rpm, press button 'A'. Each individual press of button 'A' will then increase the setting in increments of 1,000 rpm, up to the maximum rpm limit. When the maximum rpm limit is reached, the setting will return to 3,500 rpm.

### Note:

- If the rpm 1000 units is set to the maximum rpm limit, SHIFT will be shown.

## General Information

When the correct setting is shown press button 'B' and the rpm 100 units start flashing.



1. RPM 100 units
2. Button A
3. Button B

The setting can now be changed in increments of 100 rpm, again up to the maximum rpm limit.

**Note:**

- In this mode, when 900 is reached, the next press of button 'A' will reset the display to 000.

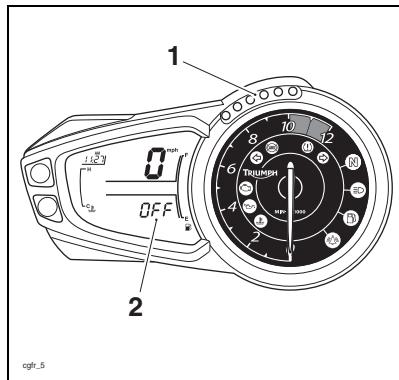
Each individual press of button 'A' will increase the setting in increments of 100 rpm.

When the correct setting is shown, pressing button 'B' will confirm the setting, SHIfT will be visible in the display screen and all the gearshift lights will flash.

Press and release button 'A' until rEturn is visible in the display screen then press button 'B'. Trip 1 will be visible in the display screen.

### Setting Gearshift Lights to Off

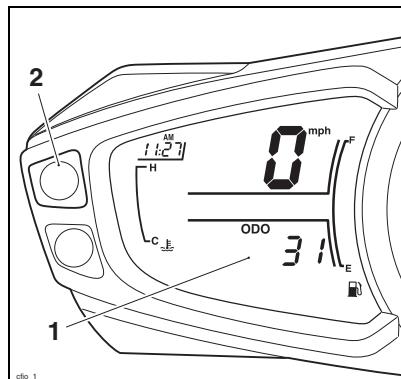
To select the OFF mode, ensure OFF is visible in the display screen. Press button 'B' and SHIfT will be visible in the display screen. Press and release button 'A' until rEturn is visible in the display screen then press button 'B'. Trip 1 will be visible in the display screen.



1. Gearshift lights
2. Display screen (OFF mode shown)

## General Information

### Lap Timer



1. Display screen
2. Button A

The lap timer will provide the following information: lap time, number of laps, average speed, maximum speed and distance travelled. Each display provides the following information:

#### Lap time

The elapsed time of the lap (the lap number will be displayed in the speedometer display). Information is recorded for each lap since the last reset.

#### Note:

- The lap timer will reset to zero after 100 minutes.

#### Number of Laps

The number of recorded laps since the last reset is displayed. A maximum of 50 laps can be stored by the lap timer.

### Maximum Speed

The maximum speed achieved per lap and the lap number.

### Average Speed

The average speed per lap and the lap number.

### Distance Travelled

The distance travelled per lap and the lap number.

### Turning the Lap Timer On or Off

To switch the lap timer on or off, with the motorcycle stationary and in neutral turn the ignition to the ON position.

Press and release button 'A' until set up is visible in the display screen. Then press button 'B'.

Press and release button 'A' until Lap is visible then press button 'B'. ON or OFF will flash in the display screen.

Press button 'A' to select the desired display then press button 'B'. Do not touch buttons 'A' or 'B' until Lap is visible in the display. Then press and release button 'A' until return is visible then press button 'B'. Trip 1 will be visible in the display screen.

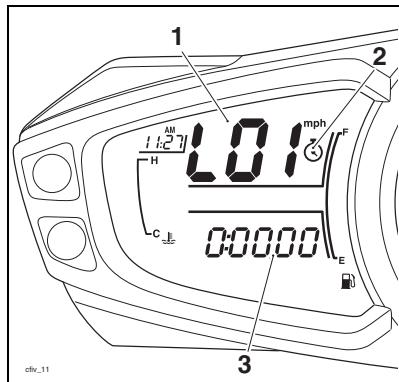
The lap timer has two modes; data recording mode and data retrieval mode.

#### Warning

Do not attempt to switch between lap timer display modes with the motorcycle in motion as this may lead to loss of motorcycle control and an accident.

## General Information

### Data Recording Mode



1. Lap display
2. Stop watch icon
3. Lap time

#### Note:

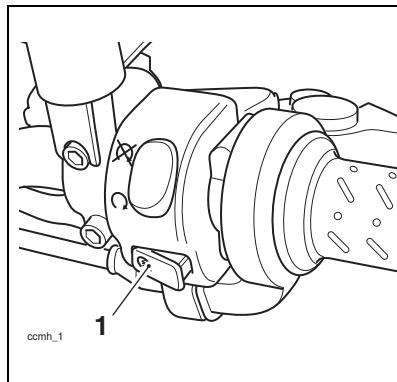
- The data recording mode and the data retrieval mode will only operate when the lap timer (lap) is turned on.

To select the data recording mode, turn the ignition to the ON position.

Press and release button 'A' until Lap is visible in the screen then press button 'B'. L01 and a stop watch icon will be visible in the speedometer display, and the lap timer will be visible in the display screen.

Pressing the starter button (with the engine running only) will start the lap timer. The display will show the lap time in minutes, seconds and hundredths of a second, and the stop watch icon is on.

### New Lap Recording

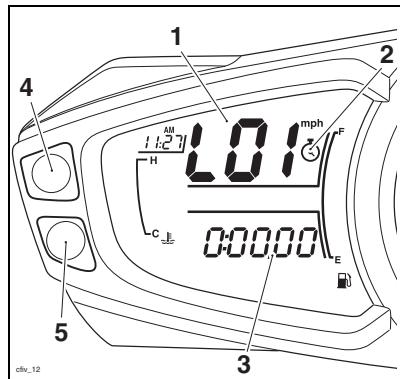


1. Starter button

At the end of the lap, pressing the starter button again will register the start of a new lap. The display will show the last lap time for 5 seconds, then the new lap number for 5 seconds. After this time, the speedometer display will show the current lap number and the display screen will show the current lap time.

## General Information

### Data Retrieval Mode



1. Lap number
2. Stop watch icon
3. Lap timer
4. Button A
5. Button B

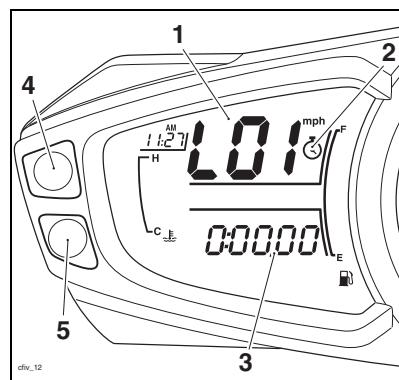
The data retrieval mode can be accessed in one of two ways:

- With the ignition in the ON position, from the lap timer display, press button 'B'.
- From the Data Recording Mode, with the engine running and the motorcycle stationary, press the starter button for 2 seconds. This will return the display to the 'Lap' display. From here press button 'B'.

#### Note:

- **The data retrieval mode cannot be accessed whilst the motorcycle is in motion.**

When the data retrieval mode is accessed, the lap time for the first lap will be displayed. The lap number will be displayed in the speedometer display position.



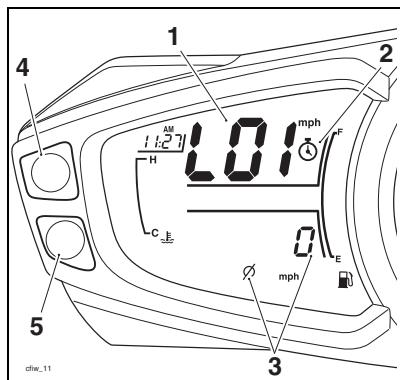
1. Lap number
2. Stop watch icon
3. Lap timer
4. Button A
5. Button B

Press and release button 'A' until the desired lap (up to a maximum of 50 laps) is displayed.

Press and release button 'B' to scroll through the data available in the following order:

- Average Speed (per lap or total of all laps)
- Maximum Speed (per lap or maximum speed achieved)
- Distance Travelled (per lap or total of all laps)
- Lap Time

## General Information



1. Lap number
2. Stop watch icon
3. Data Retrieval Mode (average speed shown)
4. Button A
5. Button B

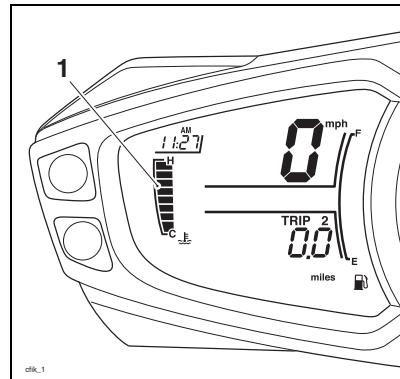
The speed and distance will be displayed in kilometres or miles, according to the units displayed by the speedometer.

### Lap Timer Reset and Exit

To reset the lap timer and exit lap timer, press button 'B' for 2 seconds. After 2 seconds, the lap timer will reset and Lap will be shown in the display screen. This will delete the stored data for all stored laps.

To exit the data retrieval mode without resetting the lap timer, press button 'A' for 2 second, Lap will be visible in the display screen. Press and release button 'A' to the desired display.

### Coolant Temperature Gauge



1. Coolant temperature gauge

The coolant temperature gauge indicates the temperature of the engine coolant.

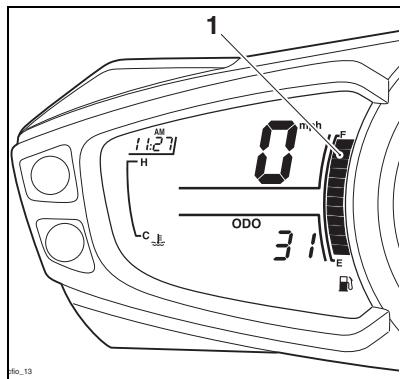
When the ignition is switched on, all 8 bars of the display will be shown. When the engine is started from cold the display will show 1 bar. As the temperature increases more bars will be shown in the display. When the engine is started from hot the display will show the relevant number of bars, dependant on engine temperature.

The normal temperature range is between 3 and 5 bars.

If the coolant temperature becomes too high the display will show 8 bars and will start to flash. The high coolant temperature warning light in the tachometer will also be illuminated.

## General Information

### Fuel Gauge



#### 1. Fuel gauge

The fuel gauge indicates the amount of fuel in the tank.

With the ignition switched on, the number of bars shown in the display indicates the level of fuel.

When the fuel tank is full all 12 bars are displayed and when empty, no bars are displayed. Other gauge markings indicate intermediate fuel levels between full and empty.

When 2 bars are displayed the low fuel warning light will illuminate, 5 seconds later the display screen will switch to 'Range' display (see page 24). This indicates there are approximately 4.5 litres of fuel remaining in the tank and you should refuel at the earliest opportunity.

After refuelling, the fuel gauge and range to empty information will be updated only while riding the motorcycle. Depending on the riding style, updating could take up to five minutes.

## General Information

### Tire Pressure Monitoring System (TPMS)

(Only on models fitted with TPMS)



#### Function

Tire pressure sensors are fitted to the front and rear wheels. These sensors measure the air pressure inside the tire and transmit pressure data to the instruments. These sensors will not transmit the data until the motorcycle is travelling at a speed greater than 12 mph (20 km). Two dashes will be visible in the display area until the tire pressure signal is received.

The tire pressure monitoring system (TPMS) is an accessory installed item and must be installed by your authorized Triumph dealer. The TPMS display on the instrument pack will only be activated when the system has been installed.

An adhesive label will be installed to the wheel rim to indicate the position of the tire pressure sensor which is near the valve.

#### Tire Pressure Sensor Serial Number

The serial number for the tire pressure sensor is printed on a label which is on the sensor. This number may be required by the dealer for service or diagnostics.

When the tire pressure monitoring system is being installed to the motorcycle, ensure that the dealer records the serial numbers of the front and rear tire pressure sensors in the spaces provided below.

#### Front Tire Pressure Sensor

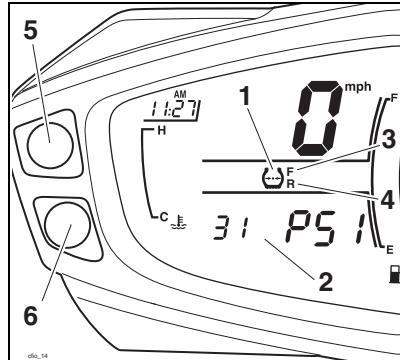
#### Rear Tire Pressure Sensor

## General Information

### System Display

#### ⚠ Warning

Do not attempt to switch between front and rear tire display modes with the motorcycle in motion as this may lead to loss of motorcycle control and an accident.



1. TPMS symbol
2. Tire pressure display
3. Front tire, identified
4. Rear tire, identified
5. Button A
6. Button B

To access the tire pressure display, turn the ignition to the ON position.

Press and release button 'A' until psi or bAr is visible in the display screen.

Press and release button 'B' to select the front or rear tire pressure.

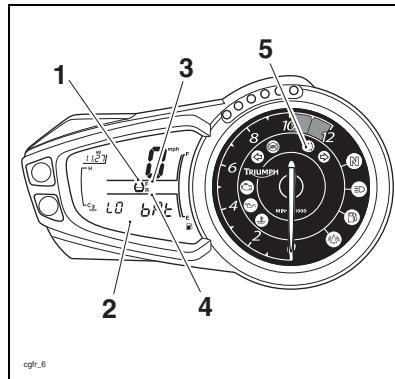
When the tire pressure monitoring system has been selected, — psi or bAr will be visible in the display screen until the motorcycle is travelling at a speed greater

than 12 mph (20 km) and the tire pressure signal is received.

To exit the tire pressure display, press and release button 'A' to the desired display.

### Sensor Batteries

When the battery voltage in a pressure sensor is low, LO bAt will be displayed and the TPMS symbol will indicate which wheel sensor has the low battery voltage. If the batteries are completely flat, only dashes will be visible in the display screen, the red TPMS warning light will be on and the TPMS symbol will flash continuously. Contact your authorized Triumph dealer to have the sensor replaced and the new serial number recorded in the spaces provided on page 37.



1. TPMS symbol
2. Display screen
3. Front tire, identified
4. Rear tire, identified
5. TPMS warning light

With the ignition switch turned to the ON position, if the TPMS symbol flashes continuously and the TPMS warning light remains on there is a fault with the TPMS

## General Information

system. Contact your authorized Triumph dealer to have the fault rectified.

### Tire Pressures

The tire pressures shown on your instrument panel indicate the actual tire pressure at the time of selecting the display. This may differ from the inflation pressure set when the tires are cold because tires become warmer during riding, causing the air in the tire to expand and the pressure to increase. The cold inflation pressures specified by Triumph take account of this.

Owners must only adjust tire pressures when the tires are cold using an accurate tire pressure gauge (see page 104), and must not use the tire pressure display on the instruments.

### Warning

The tire pressure monitoring system is not to be used as a tire pressure gauge when adjusting the tire pressures. For correct tire pressures, always check the tire pressures when the tires are cold and using an accurate tire pressure gauge (see page 104).

Use of the TPMS system to set inflation pressures may lead to incorrect tire pressures leading to loss of motorcycle control and an accident.

### Replacement Tires

When replacing tires, ensure they are aware that tire pressure sensors are fitted to the wheels and always have an authorized Triumph dealer install your tires (see page 105).

### Warning Lights

#### Turn Signals



When the turn signal switch is pushed to the left or right, the turn signal indicator light will flash on and off at the same speed as the turn signal.

#### High Beam



When the ignition is switched on and the headlight dimmer switch is set to 'high beam', the high beam warning light will illuminate.

#### Low Fuel



The low fuel indicator will illuminate when there are approximately 1.2 US gal (4.5 liters) of fuel remaining in the tank.

#### Neutral



The neutral warning light indicates when the transmission is in neutral (no gear selected). The warning light will illuminate when the transmission is in neutral with the ignition switch in the ON position.

## General Information

### Low Oil Pressure Warning Light



With the engine running, if the engine oil pressure becomes dangerously low, the low oil pressure warning light in the tachometer will illuminate.

#### Caution

Stop the engine immediately if the low oil pressure warning light illuminates. Do not restart the engine until the fault has been rectified.

Severe engine damage will result from running the engine when the low oil pressure warning light is illuminated.

The low oil pressure warning light in the tachometer will illuminate if the ignition is switched on without running the engine.

### High Coolant Temperature Warning Light



With the engine running, if the engine coolant temperature becomes dangerously high, the high coolant temperature warning light in the tachometer will illuminate.

#### Caution

Stop the engine immediately if the high coolant temperature warning light illuminates. Do not restart the engine until the fault has been rectified.

Severe engine damage will result from running the engine when the high coolant temperature warning light is illuminated.

The high coolant temperature warning light in the tachometer will illuminate if the ignition is switched on without running the engine.

### Engine Management System Malfunction Indicator Light



The malfunction indicator light for the engine management system illuminates when the ignition is switched on (to indicate that it is working) but should not become illuminated when the engine is running.

If the malfunction indicator light becomes illuminated when the engine is running, this indicates that a fault has occurred in one or more of the systems controlled by the engine management system. In such circumstances, the engine management system will switch to 'limp-home' mode so that the journey may be completed, if the fault is not so severe that the engine will not run.

#### Warning

Reduce speed and do not continue to ride for longer than is necessary with the malfunction indicator light illuminated. The fault may adversely affect engine performance, exhaust emissions and fuel consumption. Reduced engine performance could cause a dangerous riding condition, leading to loss of control and an accident. Contact an authorized Triumph dealer as soon as possible to have the fault checked and rectified.

## General Information

### Note:

- If the malfunction indicator light flashes when the ignition is switched on, contact an authorized Triumph dealer as soon as possible to have the situation rectified. In these circumstances the engine will not start.

### Alarm/Immobilizer Indicator Light



This Triumph model is fitted with an engine immobilizer which is activated when the ignition switch is turned to the OFF position. If the motorcycle is fitted with the accessory alarm, the immobilizer will operate as normal but the alarm/immobilizer light will operate as described below.

#### With Alarm Fitted

The alarm/immobilizer light will only illuminate when the conditions described in the accessory alarm instructions are met.

#### Without Alarm Fitted

When the ignition switch turned to the OFF position, the alarm/immobilizer light will flash on and off for 24 hours to show that the engine immobilizer is on. When the ignition switch is turned to the ON position the immobilizer and the indicator light will be off.

If the indicator light remains on it indicates that the immobilizer has a malfunction that requires investigation. Contact an authorized Triumph dealer as soon as possible to have the fault checked and rectified.

### ABS (Anti-Lock Brake System) Indicator light

#### (Only on models fitted with ABS)



When the ignition switch is turned to the ON position, it is normal that the ABS warning light will flash on and off. The light will continue to flash after engine start-up until the motorcycle first reaches a speed exceeding 6 mph (10 km/h) when it will go off.

If the indicator light becomes illuminated at any other time while riding it indicates that the ABS has a malfunction that requires investigation.

### ! Warning

If the ABS is not functioning, the brake system will continue to function as a non ABS braking system. Do not continue to ride for longer than is necessary with the indicator light illuminated. Contact an authorized Triumph dealer as soon as possible to have the fault checked and rectified. In this situation braking too hard will cause the wheels to lock resulting in loss of control and an accident.

See also Braking on page 67.

## General Information

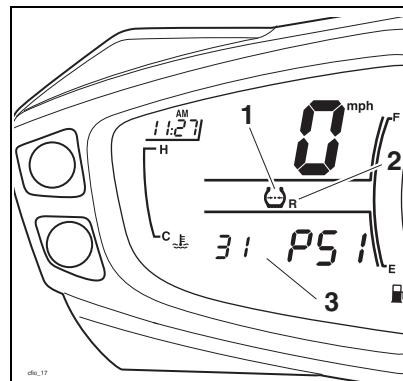
### Tire Pressure Warning Light (Only on models fitted with TPMS)



The tire pressure warning light works in conjunction with the tire pressure monitoring system (see page 37).

The warning light will only illuminate when the front or rear tire pressure is below the recommended pressure. It will not illuminate if the tire is over inflated.

When the warning light is illuminated, the TPMS symbol indicating which is the deflated tire and its pressure will automatically be visible in the display area.



1. TPMS symbol
2. Rear tire, identified
3. Tire pressure

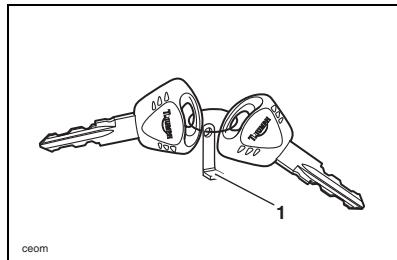
The tire pressure at which the warning light illuminates is temperature compensated to 20° C but the numeric pressure display associated with it is not (see page 39). Even if the numeric display seems at or close to the standard tire pressure when the warning light is on, a low tire pressure is indicated and a puncture is the most likely cause.

#### Warning

Stop the motorcycle if the tire pressure warning light illuminates. Do not ride the motorcycle until the tires have been checked and the tire pressures are at their recommended pressure when cold.

## General Information

### Ignition Key



#### 1. Key number tag

In addition to operating the steering lock/ignition switch, the ignition key is required to operate the seat lock and fuel tank cap.

When the motorcycle is delivered from the factory, two keys are supplied together with a small tag bearing the key number. Make a note of the key number and store the spare key and key number tag in a safe place away from the motorcycle.

A transponder is fitted within the key to turn off the engine immobilizer. To ensure the immobilizer functions correctly, always have only one of the ignition keys near the ignition switch. Having two ignition keys near the switch may interrupt the enable signal between the transponder and the engine immobilizer. In this situation the engine immobilizer will remain on until one of the ignition keys is removed.

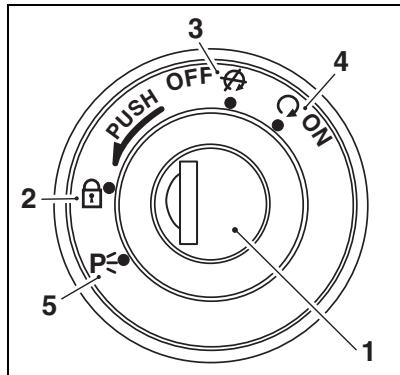
Always get replacement keys from your authorized Triumph dealer. Replacement keys must be 'paired' with the motorcycle's immobilizer by your authorized Triumph dealer.

#### Caution

Do not store the spare key with the motorcycle as this will reduce all aspects of security.

## General Information

### Ignition Switch/Steering Lock



1. Ignition switch/Steering lock
2. LOCK position
3. OFF position
4. ON position
5. PARK position

PARKING: Turn the key from the LOCK position to the P position. The steering will remain locked.

**Note:**

- **Do not leave the steering lock in the P position for long periods of time as this will cause the battery to discharge.**

#### **Warning**

For reasons of security and safety, always move the ignition switch to the OFF position and remove the key when leaving the motorcycle unattended.

Any unauthorized use of the motorcycle may cause injury to the rider, other road users and pedestrians and may also cause damage to the motorcycle.

#### **Warning**

With the key in the LOCK or P position the steering will become locked.

Never turn the key to the LOCK or P positions while the motorcycle is moving as this will cause the steering to lock. Locked steering will cause loss of motorcycle control and an accident.

### Engine Immobilizer

The ignition barrel housing acts as the antenna for the engine immobilizer.

When the ignition switch is turned to the OFF position and the ignition key removed, the engine immobilizer is on (see page 41). The engine immobilizer is turned off when the ignition key is in the ignition switch and it is turned to the ON position.

### Ignition Switch Positions

This is a four position, key operated switch. The key can be removed from the switch only when it is in the OFF, LOCK or P (PARK) position.

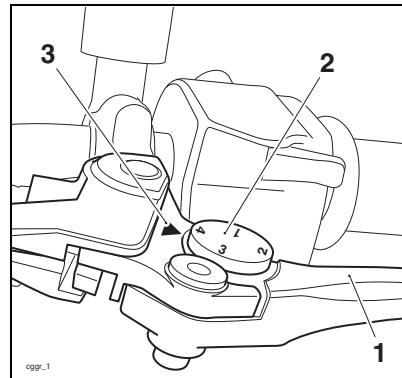
TO LOCK: Turn the steering fully to the left, Turn the key to the OFF position, push and fully release the key, then rotate it to the LOCK position.

## General Information

### Brake and Clutch Lever Adjusters

An adjuster is fitted to both the front brake and clutch levers. The adjusters allow the distance from the handlebar to the levers to be changed to suit the span of the operator's hands.

#### Clutch Lever

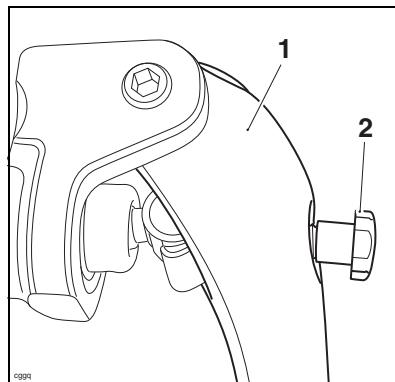


1. Clutch lever
2. Adjuster wheel
3. Triangular mark

To adjust the clutch lever, push the lever forward and turn the adjuster wheel to align one of the numbered positions with the triangular mark on the lever holder.

The distance from the handlebar grip to the released lever is shortest when set to number four and longest when set to number one.

#### Brake Lever



1. Brake lever
2. Adjusting screw

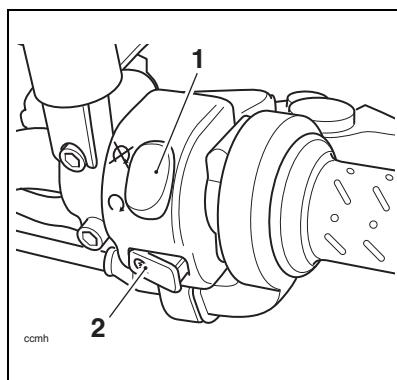
To adjust the brake lever, push the lever forward and turn the adjusting screw in to increase the distance or out to shorten the distance from the handlebar.

#### ⚠ Warning

Do not attempt to adjust the levers with the motorcycle in motion as this may lead to loss of motorcycle control and an accident. After adjusting the levers, operate the motorcycle in an area free from traffic to gain familiarity with the new lever setting. Do not loan your motorcycle to anyone as they may change the lever setting from the one you are familiar with causing loss of control or an accident.

## General Information

### Right Handlebar Switches



1. Engine stop switch
2. Starter button

#### Caution

Do not leave the ignition switch in the ON position unless the engine is running as this may cause damage to electrical components and will discharge the battery.

#### Starter Button

The starter button operates the electric starter. For the starter to operate, the clutch lever must be pulled to the handlebar.

#### Note:

- Even if the clutch lever is pulled to the handlebar, the starter will not operate if the side stand is down and a gear is engaged.

#### Engine Stop Switch

In addition to the ignition switch being turned to the ON position, the engine stop switch must be in the RUN position for the motorcycle to operate.

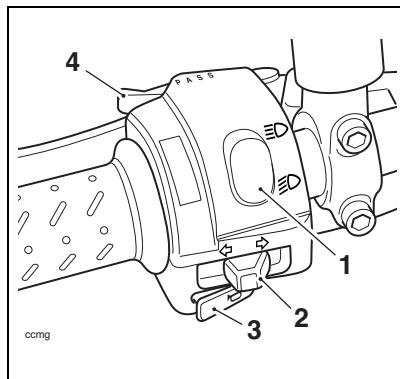
The engine stop switch is for emergency use. If an emergency arises which requires the engine to be stopped, move the engine stop switch to the STOP position.

#### Note:

- Although the engine stop switch stops the engine, it does not turn off all the electrical circuits and may cause difficulty in restarting the engine due to a discharged battery. Ordinarily, only the ignition switch should be used to stop the engine.

## General Information

### Left Handlebar Switches



1. Headlight dimmer switch
2. Turn signal switch
3. Horn button
4. Pass button

#### Headlight Dimmer Switch

High or low beam can be selected with the headlight dimmer switch. To select high beam, push the switch forward. To select low beam, push the switch rearwards. When the high beam is turned on, the high beam indicator light will illuminate.

#### Note:

- A lighting on/off switch is not fitted to this model. The headlight, tail light and license plate light all function automatically when the ignition is turned to the ON position.

### Turn Signal Switch

When the turn signal switch is pushed to the left or right and released, the corresponding turn signals will flash on and off. To turn off the turn signals, push and release the switch.

### Horn Button

When the horn button is pushed, with the ignition switch turned to the ON position, the horn will sound.

### Pass Button

When the pass button is pressed the headlight main beam will be switched on. It will remain on as long as the button is held in and will turn off as soon as the button is released.

## General Information

### Fuel Requirement/Refuelling

#### Fuel Grade



This Triumph motorcycle is designed to run on unleaded gasoline with a CLC or AKI octane rating (R+M)/2 of 89 or higher. Federal regulations require that pumps delivering unleaded gasoline are marked 'UNLEADED' and that the Cost of Living Council (CLC) or Anti-Knock Index (AKI) octane rating is also displayed. These ratings are an average of the Research Octane Number (RON) and the Motor Octane Number (MON).

#### Note:

- If 'knocking' or 'pinging' occurs at a steady engine speed under normal load, use a different brand of gasoline or gasoline which has a higher octane rating.

#### Oxygenated Gasoline

To help in meeting clean air standards, some areas of the U.S. use oxygenated gasoline to help reduce harmful emissions. These gasolines are a blend of conventional gasoline and another compound such as alcohol. This Triumph motorcycle will give its best performance when using unleaded gasoline. However, the following should be used as a guide if you use any oxygenated fuels.

#### Ethanol

Ethanol fuel is a mixture of 10% Ethanol and 90% gasoline and is often described under the names 'gasohol', 'Ethanol enhanced', or 'contains Ethanol'. This fuel may be used in your Triumph motorcycle.

#### MTBE (Methyl Tertiary Butyl Ether)

The use of gasolines containing up to 15% MTBE (Methyl Tertiary Butyl Ether) is permitted in this Triumph motorcycle.

#### Caution

In all countries except Australia and New Zealand the exhaust system is fitted with a catalytic converter to help reduce exhaust emission levels. The catalytic converter can be permanently damaged if the motorcycle is allowed to run out of fuel or if the fuel level is allowed to get very low. Always ensure you have adequate fuel for your journey.

#### Caution

The use of leaded fuel is illegal in most countries, states or territories. Use of leaded fuel will damage the catalytic converter (if fitted).

## General Information

### Methanol

#### Caution

Fuels containing methanol should not be used as damage to components in the fuel system can be caused by contact with methanol.

#### Caution

Because of the generally higher volatility of oxygenated fuels, starting, engine response and fuel consumption may be adversely affected by their use. Should any of these difficulties be experienced, run the motorcycle on normal unleaded gasoline.

#### Warning

To help reduce hazards associated with refuelling, always observe the following fuel safety instructions:

Gasoline (fuel) is highly flammable and can be explosive under certain conditions. When refuelling, turn the ignition switch to the OFF position.

Do not smoke.

Do not use a mobile telephone.

Make sure the refuelling area is well ventilated and free from any source of flame or sparks. This includes any appliance with a pilot light.

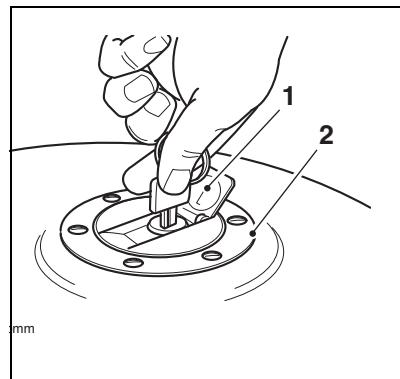
Never fill the tank until the fuel level rises into the filler neck. Heat from sunlight or other sources may cause the fuel to expand and overflow creating a fire hazard.

After refuelling always check that the fuel filler cap is correctly closed and locked.

Because gasoline (fuel) is highly flammable, any fuel leak or spillage, or any failure to observe the safety advice given above will lead to a fire hazard, which could cause damage to property, injury to persons or death.

## General Information

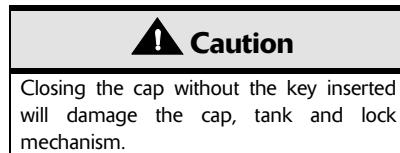
### Fuel Tank Cap



1. Fuel tank cap
2. Key

To open the fuel tank cap, lift up the flap covering the lock itself. Insert the key into the lock and turn the key clockwise.

To close and lock the cap, push the cap down into place with the key inserted, until the lock 'clicks' into place. Withdraw the key and close the key cover.



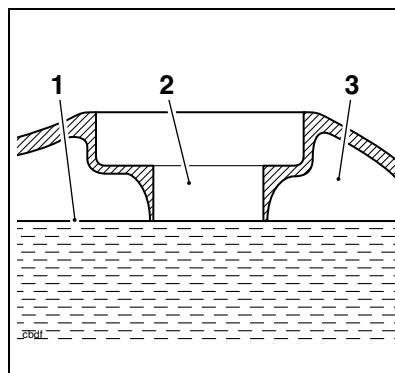
### Filling the Fuel Tank

Avoid filling the tank in rainy or dusty conditions where airborne material can contaminate the fuel.

#### Caution

Contaminated fuel may cause damage to fuel system components.

Fill the fuel tank slowly to help prevent spillage. Do not fill the tank to a level above the bottom of the filler neck. This will ensure there is enough air space to allow for fuel expansion if the fuel inside the tank expands through absorption of heat from the engine or from direct sunlight.



1. Maximum fuel level
2. Fuel filler neck
3. Air space

## General Information

### Warning

Overfilling the tank can lead to fuel spillage.

If fuel is spilled, thoroughly clean up the spillage immediately and dispose of the materials used safely.

Take care not to spill any fuel on the engine, exhaust pipes, tires or any other part of the motorcycle.

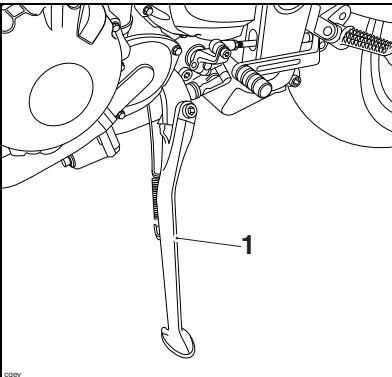
Because fuel is highly flammable, any fuel leak or spillage, or any failure to observe the safety advice given above may lead to a fire hazard, which could cause damage to property and injury or death to persons.

Fuel spilled near to, or onto the tires will reduce the tire's ability to grip the road. This will result in a dangerous riding condition potentially causing loss of motorcycle control and an accident.

After refuelling always check that the fuel filler cap is correctly closed and locked.

### Stand

#### Side Stand



#### 1. Side stand

The motorcycle is equipped with a side stand on which the motorcycle can be parked.

### Warning

The motorcycle is fitted with an interlock system to prevent it from being ridden with the side stand in the down position.

Never attempt to ride with the side stand down or interfere with the interlock mechanism as this will cause a dangerous riding condition leading to loss of motorcycle control and an accident.

#### Note:

- **When using the side stand, always turn the handlebars fully to the left and leave the motorcycle in first gear.**

## General Information

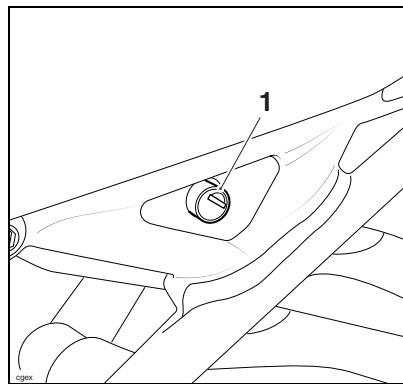
Whenever the side stand is used before riding, always ensure that the stand is fully up after first sitting on the motorcycle.

For instructions on safe parking, refer to the 'How to Ride the Motorcycle' section.

### Tool Kit and Handbook

The tool kit and handbook are both located under the seat.

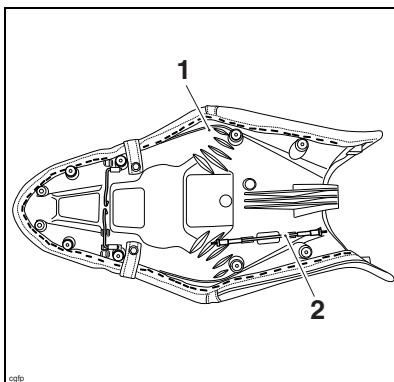
### Seat Lock



#### 1. Seat lock

The seat lock is located on the left hand side of the motorcycle, on the frame below the seat. To remove the seat, insert the ignition key into the seat lock and turn it counter-clockwise while pressing down on the rear of the seat. This will release the seat from its lock and allow it to be slid rearwards for complete removal from the motorcycle.

Located on the underside of the seat is the fuel tank support.



#### 1. Seat

#### 2. Fuel tank support

### Seat Care

To prevent damage to the seat or seat cover, care must be taken not to drop or lean the seat against any surface which may damage the seat or seat cover.

See page 119 for seat cleaning information.

#### Caution

To prevent damage to the seat or cover, care must be taken not to drop the seat. Do not lean the seat against the motorcycle or any surface which may damage the seat or cover. Instead, place the seat, with the cover facing upwards, on a clean, flat surface which is covered with a soft cloth.

Do not place any item on the seat which may cause damage or staining to the seat cover.

## General Information

To install the seat, engage the seat's tongue under the fuel tank and press down at the rear to engage in the seat lock. An audible click can be heard when the seat is fully engaged into its lock.

### ⚠ Warning

To prevent detachment of the seat during riding, after fitting always grasp the seat and pull firmly upwards. If the seat is not correctly secured in the lock, it will detach from the lock. A loose or detached seat could cause loss of motorcycle control and an accident.

#### Tie-Down Hooks

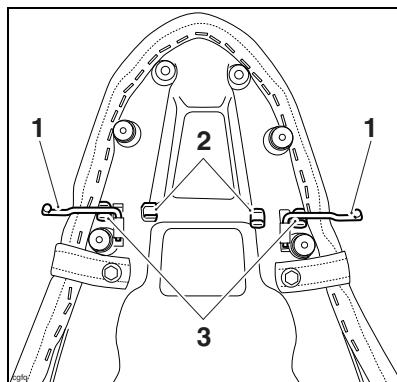
Located on the underside of the seat are the tie-down hooks.

The tie-down hooks are designed to help secure a load up to 7.5 lb (3.5 kg) to the seat using a rope.

To access and use the tie-down hooks, remove the seat (see page 52).

Release the hooks from the inner clip and pivot them around and securely fit them into the outer clips.

Install the seat as described on page 52.



1. Tie-down hooks
2. Inner clips
3. Outer clips

### ⚠ Warning

If the seat is used to carry small objects, they must not exceed 7.5 lb (3.5 kg) in weight, must not impair control of the motorcycle, must be securely attached and must not extend beyond the rear or sides of the motorcycle.

Carriage of objects in excess of 7.5 lb (3.5 kg) in weight, that are insecure, impair control or extend beyond the rear or sides of the motorcycle may lead to loss of motorcycle control and an accident.

Even if small objects are correctly loaded onto the rear seat, the maximum speed of the motorcycle must be reduced to 80 mph (130 km/h).

## General Information

### Breaking-In



Breaking-in is the name given to the process that occurs during the first hours of a new vehicle's operation.

In particular, internal friction in the engine will be higher when components are new. Later on, when continued operation of the engine has ensured that the components have 'bedded in', this internal friction will be greatly reduced.

A period of careful breaking-in will ensure lower exhaust emissions, and will optimize performance, fuel economy and longevity of the engine and other motorcycle components.

During the first 500 miles (800 kilometers):

- Do not use full throttle.
- Avoid high engine speeds at all times.
- Avoid riding at one constant engine speed, whether fast or slow, for a long period of time.
- Avoid aggressive starts, stops, and rapid accelerations, except in an emergency.
- Do not ride at speeds greater than 3/4 of maximum engine speed.

From 500 to 1000 miles (800 to 1500 kilometers):

- Engine speed can gradually be increased to the rev limit for short periods.

Both during and after breaking-in has been completed:

- Do not over-rev the engine when cold.
- Do not lug the engine. Always downshift before the engine begins to 'struggle'.
- Do not ride with engine speeds unnecessarily high. Shifting up a gear helps reduce fuel consumption, reduces noise and helps to protect the environment.

## General Information

### Safe Operation

#### Daily Safety Checks



Check the following items each day before you ride. The time required is minimal, and these checks will help ensure a safe, reliable ride.

If any irregularities are found during these checks, refer to the Maintenance and Adjustment section or see your authorized Triumph dealer for the action required to return the motorcycle to a safe operating condition.

#### Warning

Failure to perform these checks every day before you ride may result in serious motorcycle damage or an accident causing serious injury or death.

#### Check:

**Fuel:** Adequate supply in tank, no fuel leaks (see page 48).

**Engine Oil:** Correct level on dipstick. Add correct specification oil as required. No leaks from the engine or oil cooler (see page 79).

**Drive Chain:** Correct adjustment (see page 90).

**Tires/Wheels:** Correct inflation pressures (when cold). Tread depth/wear, tire/wheel damage, punctures etc. (see page 103).

**Nuts, Bolts, Fasteners:** Visually check that steering and suspension components, axles, and all controls are properly tightened or fastened. Inspect all areas for loose/damaged fasteners.

**Steering Action:** Smooth but not loose from lock to lock. No binding of any of the control cables (see page 97).

**Brakes:** Pull the brake lever and push the brake pedal to check for correct resistance. Investigate any lever/pedal where the travel is excessive before meeting resistance, or if either control feels spongy in operation (see page 94).

**Brake Pads:** There should be more than 0.04 in (1.0 mm) of friction material remaining on the front brake pads and more than 0.06 in (1.5 mm) for the rear (see page 95).

**Brake Fluid Levels:** No brake fluid leakage. Brake fluid levels must be between the MAX and MIN marks on both reservoirs (see page 96).

## General Information

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**Front Forks:** Smooth action. No leaks from fork seals (see page 99).

**Throttle:** Throttle grip free play 0.08 - 0.12 in (2 - 3 mm) at all angles. Ensure that the throttle grip returns to the idle position without sticking (see page 87).

**Clutch:** Smooth operation and correct cable free play (see page 89) at all steering angles.

**Coolant:** No coolant leakage. Check the coolant level in the expansion tank (when the engine is cold) (see page 82).

**Electrical Equipment:** All lights and horn function correctly (see page 43).

**Engine Stop:** Stop switch turns the engine off (see page 58).

**Stand:** Returns to the fully up position by spring tension. Return springs not weak or damaged (see page 57).

## **How to Ride the Motorcycle**

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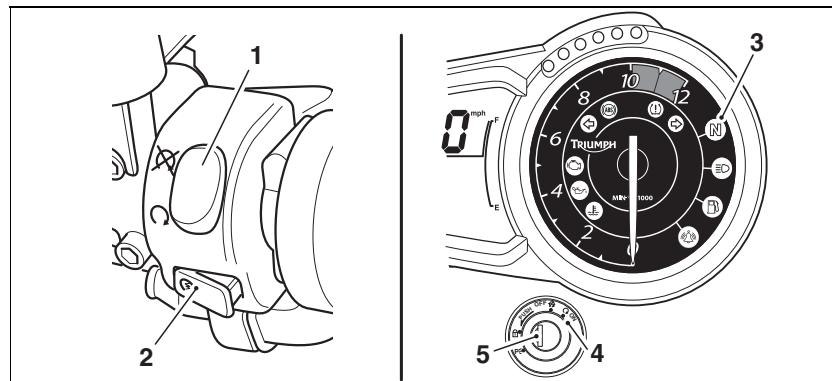
### **HOW TO RIDE THE MOTORCYCLE**

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## How to Ride the Motorcycle

### To Stop the Engine



1. Engine stop switch
2. Starter button
3. Neutral indicator light
4. ON position
5. Ignition switch

Close the throttle completely.

Select neutral.

Turn the ignition switch off.

Select first gear.

Support the motorcycle on a firm, level surface with the side stand.

Lock the steering.

#### Caution

The engine should normally be stopped by turning the ignition switch to the OFF position. The engine stop switch is for emergency use only. Do not leave the ignition switched on with the engine stopped. Electrical damage may result.

### To Start the Engine

Check that the engine stop switch is in the RUN position.

Ensure the transmission is in neutral.

Pull the clutch lever fully into the handlebar.

Turn the ignition switch on.

#### Note:

- When the ignition is switched on, the tachometer needle will quickly sweep from zero to maximum and then return to zero. The instrument warning lights will illuminate and will then go off (except those which normally remain on until the engine starts - see page 39. It is not necessary to wait for the needle to return to zero before starting the engine).
- In very cold conditions, part open the throttle to aid cold starting. Return it to the closed position once the engine has started.

## How to Ride the Motorcycle

Pull the clutch lever fully into the handlebar. Leaving the throttle fully closed, push the starter button until the engine starts. Slowly realease the clutch lever

### Warning

Never start the engine or run the engine in a confined area. Exhaust fumes are poisonous and can cause loss of consciousness and death within a short period of time. Always operate your motorcycle in the open-air or in an area with adequate ventilation.

### Caution

Do not operate the starter continuously for more than 5 seconds as the starter motor will overheat and the battery will become discharged. Wait 15 seconds between each operation of the starter to allow for cooling and recovery of battery power.

Do not let the engine idle for long periods as this may lead to overheating which will cause damage to the engine.

### Caution

The low oil pressure warning light should go out shortly after the engine starts.

If the low oil pressure warning light stays on after starting the engine, stop the engine immediately and investigate the cause. Running the engine with low oil pressure will cause severe engine damage.

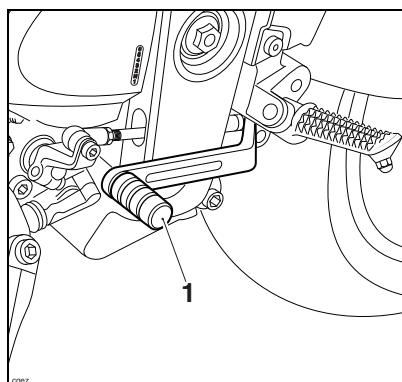
- The motorcycle is equipped with starter lockout switches. The switches prevent the electric starter from operating when the transmission is not in neutral with the side stand down.
- If the side stand is extended while the engine is running, and the transmission is not in neutral then the engine will stop regardless of clutch position.

### Moving Off

Pull in the clutch lever and select first gear. Open the throttle a little and let out the clutch lever slowly. As the clutch starts to engage, open the throttle a little more, allowing enough engine speed to avoid stalling.

## How to Ride the Motorcycle

### Shifting Gears



#### 1. Gearshift pedal

Close the throttle while pulling in the clutch lever. Shift into the next higher or lower gear. Open the throttle part way, while releasing the clutch lever. Always use the clutch when shifting gear.



#### Note:

- The gearshift mechanism is the 'positive stop' type. This means that, for each movement of the gearshift pedal, you can only select each gear, one after the other, in ascending or descending order.

#### ! Warning

Do not shift to a lower gear at speeds that will cause excessive engine rpm (r/min). This can lock the rear wheel causing loss of control and an accident. Engine damage may also be caused. Down-shifting should be done such that low engine speeds will be ensured.

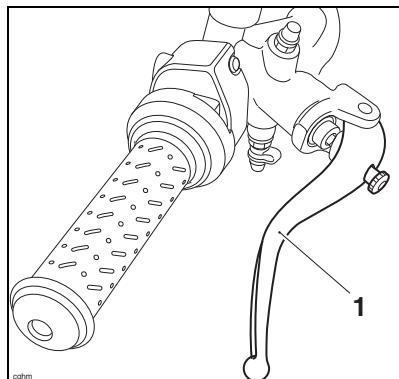
#### ! Warning

Take care to avoid opening the throttle too far or too fast in any of the lower gears as this can lead to the front wheel lifting from the ground (pulling a 'wheelie') and to the rear tire breaking traction (wheel spin).

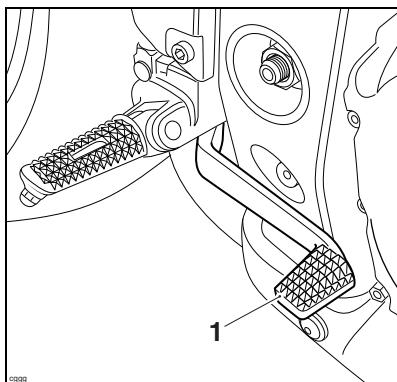
Always open the throttle cautiously, particularly if you are unfamiliar with the motorcycle, as a 'wheelie' or loss of traction will cause loss of motorcycle control and an accident.

## How to Ride the Motorcycle

### Braking



1. Front brake lever



1. Rear brake pedal

#### ⚠ Warning

##### WHEN BRAKING, OBSERVE THE FOLLOWING:

Close the throttle completely, leaving the clutch engaged to allow the engine to help slow down the motorcycle.

Downshift one gear at a time such that the transmission is in first gear when the motorcycle comes to a complete stop.

When stopping, always apply both brakes at the same time. Normally the front brake should be applied a little more than the rear.

Downshift or fully disengage the clutch as necessary to keep the engine from stalling.

Never lock the brakes, as this may cause loss of control of the motorcycle and an accident.

#### ⚠ Warning

For emergency braking, disregard downshifting, and concentrate on applying the front and rear brakes as hard as possible without skidding. Riders should practice emergency braking in a traffic-free area. Incorrect brake technique could result in loss of control and an accident.

Triumph strongly recommends that all riders take a course of instruction, which includes advice on safe brake operation.

## How to Ride the Motorcycle

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### Warning

For your safety, always exercise extreme caution when braking, accelerating or turning as any improper action can cause loss of control and an accident. Independent use of the front or rear brakes reduces overall braking performance. Extreme braking may cause either wheel to lock, reducing control of the motorcycle and causing an accident.

When possible, reduce speed or brake before entering a turn as closing the throttle or braking in mid-turn may cause wheel slip leading to loss of control and an accident.

When riding in wet or rainy conditions, or on loose surfaces, the ability to maneuver and stop will be reduced. All of your actions should be smooth under these conditions. Sudden acceleration, braking or turning may cause loss of control and an accident.

### Warning

When descending a long, steep gradient, use engine braking by down-shifting and use the brakes intermittently. Continuous brake application can overheat the brakes and reduce their effectiveness.

Riding with your foot on the brake pedal or your hands on the brake lever may actuate the brake light, giving a false indication to other road users. It may also overheat the brake, reducing braking effectiveness.

Do not coast with the engine switched off, and do not tow the motorcycle. The transmission is pressure-lubricated only when the engine is running. Inadequate lubrication may cause damage or seizure of the transmission, which can lead to sudden loss of motorcycle control and an accident.

## How to Ride the Motorcycle

### ABS (Anti-Lock Brake System) Models only

#### ⚠ Warning

Where fitted, ABS prevents the wheels from locking, therefore maximizing the effectiveness of the braking system in emergencies and when riding on slippery surfaces. The potentially shorter braking distances ABS allows under certain conditions are not a substitute for good riding practice.

Always ride within the legal speed limit. Never ride without due care and attention and always reduce speed in consideration of weather, road and traffic conditions.

Take care when cornering. If the brakes are applied in a corner, ABS will not be able to counteract the weight and momentum of the motorcycle. This can result in loss of control and an accident.

Under some circumstances it is possible that a motorcycle equipped with ABS may require a longer stopping distance than an equivalent motorcycle without ABS.

### ABS Warning Light



The ABS indicator light illuminates to show that the ABS function is not available. Illumination is normal after engine start-up, and until the motorcycle first reaches a speed exceeding 6 mph (10 km/h). Unless there is a fault, it should not illuminate again until the engine is restarted.

If the indicator light becomes illuminated at any other time while riding, it indicates that the ABS has a malfunction that requires investigation.

#### Note:

- Normally, the rider will perceive ABS operation as a harder feel or a pulsation of the brake lever and pedal. As the ABS is not an integrated braking system and it does not control both the front and rear brake at the same time, this pulsation may be felt in the lever, the pedal or both.
- The ABS may be activated by sudden upward or downward changes in the road surface.

#### ⚠ Warning

If the ABS is not functioning, the brake system will continue to function as a non-ABS braking system. Do not continue to ride for longer than is necessary with the indicator light illuminated. Contact an authorized Triumph dealer as soon as possible to have the fault checked and rectified. In this situation, braking too hard will cause the wheels to lock resulting in loss of control and an accident.

## How to Ride the Motorcycle

### ⚠ Warning

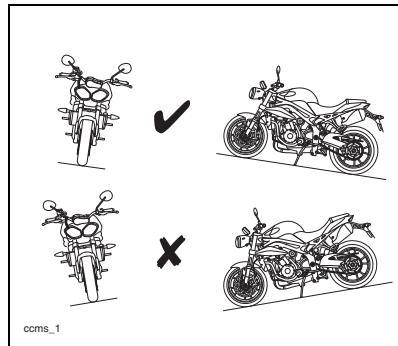
The ABS warning light will illuminate when the rear wheel is driven at high speed for more than 30 seconds when the motorcycle is on a stand. This reaction is normal.

When the ignition is switched off and the motorcycle is re-started, the warning light will illuminate until the motorcycle reaches a speed exceeding 19 mph (30 km/h).

### ⚠ Warning

The ABS computer operates by comparing the relative speed of the front and rear wheels. Use of non-recommended tires can affect wheel speed and cause the ABS function not to operate, potentially leading to loss of control and an accident in conditions where the ABS would normally function.

### Parking



Select neutral and turn the ignition switch to the OFF position.

Lock the steering to help prevent theft.

Always park on a firm, level surface to prevent the motorcycle from falling.

When parking on a hill, always park facing uphill to prevent the motorcycle from rolling off the stand. Engage first gear to prevent the motorcycle from moving.

On a lateral (sideways) incline, always park such that the incline naturally pushes the motorcycle towards the side stand.

Do not park on a lateral (sideways) incline of greater than 6° and never park facing downhill.

#### Note:

- When parking near traffic at night, or when parking in a location where parking lights are required by law, leave the tail, license plate and position lights on by turning the ignition switch to P (Park).

## How to Ride the Motorcycle

Do not leave the switch in the P position for long periods of time as this will discharge the battery.

### ! Warning

Do not park on a soft or on a steeply inclined surface. Parking under these conditions may cause the motorcycle to fall over causing damage to property and personal injury.

### ! Warning

Gasoline is extremely flammable and can be explosive under certain conditions. If parking inside a garage or other structure, be sure it is well ventilated and the motorcycle is not close to any source of flame or sparks. This includes any appliance with a pilot light.

Failure to follow the above advice may cause a fire resulting in damage to property or personal injury.

### ! Warning

The engine and exhaust system will be hot after riding. DO NOT park where pedestrians and children are likely to touch the motorcycle.

Touching any part of the engine or exhaust system when hot may cause unprotected skin to become burnt.

### Considerations for High-Speed Operation

### ! Warning

This Triumph motorcycle should be operated within the legal speed limits for the particular road travelled. Operating a motorcycle at high speeds can be potentially dangerous since the time available to react to given traffic situations is greatly reduced as road speed increases. Always reduce speed in consideration of weather and traffic 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 then 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.

## How to Ride the Motorcycle

### Warning

The handling characteristics of a motorcycle at high speed may vary from those you are familiar with at legal road speeds. Do not attempt high-speed operation unless you have received sufficient training and have the required skills as a serious accident may result from incorrect operation.

### Warning

The items listed are extremely important and must never be neglected. A problem, which may not be noticed at normal operating speeds, may be greatly exaggerated at high speeds.

### General

Ensure the motorcycle has been maintained according to the scheduled maintenance chart.

### Steering

Check that the handlebar turns smoothly without excessive free play or tight spots. Ensure that the control cables do not restrict the steering in any way.

### Luggage

Make certain that any luggage containers are closed, locked and securely fitted to the motorcycle.

### Brakes

Check that the front and rear brakes are functioning properly.

### Tires

High-speed operation is hard on tires, and tires that are in good condition are crucial to riding safely. Examine their overall condition, inflate to the correct pressure (when the tires are cold), and check the wheel balance. Securely install the valve caps after checking tire pressures. Observe the information given in the Maintenance and Specification sections on tire checking and tire safety.

### Fuel

Have sufficient fuel for the increased fuel consumption that will result from high-speed operation.

### Caution

In all countries except Australia and New Zealand the exhaust system is fitted with a catalytic converter to help reduce exhaust emission levels. The catalytic converter can be permanently damaged if the motorcycle is allowed to run out of fuel or if the fuel level is allowed to get very low. Always ensure you have adequate fuel for your journey.

## How to Ride the Motorcycle

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### **Engine Oil**

Make certain that the engine oil level is correct. Ensure that the correct grade and type of oil is used when topping-off.

### **Coolant**

Check that the coolant level is at the upper level line in the expansion tank. (Always check the level with the engine cold.)

### **Electrical Equipment**

Make certain that the headlight, brake/tail light, turn signals, horn, etc. all work properly.

### **Miscellaneous**

Visually check that all fasteners are tight.

## **How to Ride the Motorcycle**

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## Accessories and Loading

### ACCESSORIES AND LOADING

The addition of accessories and carrying additional weight can affect the motorcycle's handling characteristics causing changes in stability and necessitating a reduction in speed. The following information has been prepared as a guide to the potential hazards of adding accessories to a motorcycle and carrying passengers and additional loads.

#### Warning

Incorrect loading may result in an unsafe riding condition leading to an accident.

Always ensure any loads carried are evenly distributed on both sides of the motorcycle. Ensure that the load is correctly secured such that it will not move around while the motorcycle is in motion.

Always check the load security regularly (though not while the motorcycle is in motion) and ensure that the load does not extend beyond the rear of the motorcycle.

Never exceed the maximum vehicle loading weight of 430 lbs (195 kg).

This maximum loading weight is made up from the combined weight of the rider, passenger, any accessories fitted and any load carried.

#### Warning

Do not install accessories or carry luggage that impairs the control of the motorcycle. Make sure that you have not adversely affected the visibility of any lighting component, road clearance, banking capability (i.e. lean angle), control operation, wheel travel, front fork movement, visibility in any direction, or any other aspect of the motorcycle's operation.

#### Warning

Never ride an accessory equipped motorcycle, or a motorcycle carrying a payload of any kind, at speeds above 80 mph (130 km/h). In either/both of these conditions, speeds in excess of 80 mph (130 km/h) should not be attempted even where the legal speed limit permits this.

The presence of accessories and/or payload 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) absolute limit will reduce by the fitting of non-approved accessories, incorrect loading, worn tires, overall motorcycle condition and poor road or weather conditions.

## Accessories and Loading

### ⚠ Warning

This motorcycle must not be operated above the legal road speed limit except in authorized 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 then 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.

### ⚠ Warning

Your passenger should be instructed that he or she can cause loss of motorcycle control by making sudden movements or by adopting an incorrect seated position.

The rider should instruct the passenger as follows:

- It is important that the passenger sits still while the motorcycle is in motion and does not interfere with the operation of the motorcycle.
- To keep his or her feet on the passenger footrests and to firmly hold onto the seat strap or the rider's waist or hips.
- Advise the passenger to lean with the rider when travelling around corners and not to lean unless the rider does so.

### ⚠ Warning

Do not carry animals on your motorcycle. An animal could make sudden and unpredictable movements that could lead to loss of motorcycle control and an accident.

## Accessories and Loading

### ⚠ Warning

The handling and braking capabilities of a motorcycle will be affected by the presence of a passenger. The rider must make allowances for these changes when operating the motorcycle with a passenger and should not attempt such operation unless trained to do so and without becoming familiar and comfortable with the changes in motorcycle operating characteristics that this brings about. Motorcycle operation without making allowances for the presence of a passenger could lead to loss of motorcycle control and an accident.

### ⚠ Warning

If the passenger seat is used to carry small objects, they must not exceed 7.5 lbs (3.5 kg) in weight, must not impair control of the motorcycle, must be securely attached and must not extend beyond the rear or sides of the motorcycle. Carrying of objects in excess of 7.5 lbs (3.5 kg) in weight, that are insecure, impair control or extend beyond the rear or sides of the motorcycle may lead to loss of motorcycle control and an accident. Even if small objects are correctly loaded onto the rear seat, the maximum speed of the motorcycle must be reduced to 80 mph (130 km/h).

### ⚠ Warning

Do not carry a passenger unless he or she is tall enough to reach the footrests provided. A passenger who is not tall enough to reach the footrests will be unable to sit securely on the motorcycle and may cause instability leading to loss of control and an accident.

## **Accessories and Loading**

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## Maintenance and Adjustment

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### MAINTENANCE AND ADJUSTMENT

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## **Maintenance and Adjustment**

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## Maintenance and Adjustment

### Scheduled Maintenance

To maintain the motorcycle in a safe and reliable condition, the maintenance and adjustments outlined in this section must be carried out as specified in the schedule of daily checks, and also in line with the scheduled maintenance chart. The information that follows describes the procedures to follow when carrying out the daily checks and some simple maintenance and adjustment items.

#### ! Warning

Special tools, knowledge and training are required in order to correctly carry out the maintenance items listed in the scheduled maintenance chart. Only an authorized Triumph dealer will have this knowledge and equipment.

Since incorrect or neglected maintenance can lead to a dangerous riding condition, always have an authorized Triumph dealer carry out the scheduled maintenance of this motorcycle.

#### ! Warning

All maintenance is vitally important and must not be neglected. Incorrect maintenance or adjustment may cause one or more parts of the motorcycle to malfunction. A malfunctioning motorcycle may lead to loss of control and an accident. Weather, terrain and geographical location affects maintenance. The maintenance schedule should be adjusted to match the particular environment in which the vehicle is used and the demands of the individual owner.

Since incorrect or neglected maintenance can lead to a dangerous riding condition, always have an authorized Triumph dealer carry out the scheduled maintenance of this motorcycle.

Triumph Motorcycles cannot accept any responsibility for damage or injury resulting from incorrect maintenance or improper adjustment carried out by the owner.

## Maintenance and Adjustment

Operation Description		Odometer Reading in Miles (Kms) or Time Period, whichever comes first				
	First Service	A Service	B Service	C Service	D Service	
	Every	500 (800) 1 month	6,000 (10,000) 1 year	12,000 (20,000) 2 years	18,000 (30,000) 3 years	24,000 (40,000) 4 years
Engine oil cooler - check for leaks	-	•	•	•	•	•
Engine oil - replace	-	•	•	•	•	•
Engine oil filter - replace	-	•	•	•	•	•
Valve clearances - check	-			•		•
Air cleaner - replace	-			•		•
Autoscan - carry out a full Autoscan using the Triumph Diagnostic tool	-	•		•		•
Engine ECM - check for stored DTCs	-		•		•	
Spark plugs - check	-		•		•	
Spark plugs - replace	-			•		•
Throttle bodies - balance	-		•	•	•	•
Throttle cables - check/adjust	Day	•	•	•	•	•
Cooling system - check for leaks	Day	•	•	•	•	•
Coolant level - check/adjust	Day	•	•		•	
Coolant - replace	-			•		•
Fuel system - check for leaks	Day	•	•	•	•	•
Lights, instruments and electrical systems - check	Day	•	•	•	•	•
Steering - check for free operation	Day	•	•	•	•	•
Steering head bearings - check/adjust	-		•	•	•	•
Steering head bearings - lubricate	-			•		•
Forks - check for leaks/smooth operation	Day	•	•	•	•	•
Fork oil - replace	-					•
Brake fluid levels - check	Day	•	•	•	•	•

## Maintenance and Adjustment

Operation Description		Odometer Reading in Miles (Kms) or Time Period, whichever comes first				
		First Service	A Service	B Service	C Service	D Service
	Every	500 (800) 1 month	6,000 (10,000) 1 year	12,000 (20,000) 2 years	18,000 (30,000) 3 years	24,000 (40,000) 4 years
Brake fluid - replace	-			•		•
Brake pad wear - check	Day	•	•	•	•	•
Brake master cylinders – check for oil leaks	-	•	•	•	•	•
Brake calipers - check for leaks and seized pistons	-	•	•	•	•	•
Rear suspension linkage - check/lubricate	-			•		•
Drive chain - lubricate		Every 200 miles (300 kms)				
Drive chain – wear check		Every 500 miles (800 kms)				
Drive chain slack – check/adjust	Day	•	•	•	•	•
Drive rubbing strip - check	-		•	•	•	•
Rear wheel needle roller bearing - lubricate	-			•		•
Fasteners - inspect visually for security	Day	•	•	•	•	•
Wheels - inspect for damage	Day	•	•	•	•	•
Wheel bearings - check for wear/smooth operation		•	•	•	•	•
Tire wear/tire damage - check	Day	•	•	•	•	•
Tire pressures - check/adjust	Day	•	•	•	•	•
Clutch cable - check/adjust	Day	•	•	•	•	•
Secondary air injection system - check	-			•		•
Stand - check operation	Day	•	•	•	•	•
Exhaust clamp bolts - check/adjust	-	•	•	•	•	•
Fuel and evaporative loss hoses - replace	-					•

## Maintenance and Adjustment

### Engine Oil



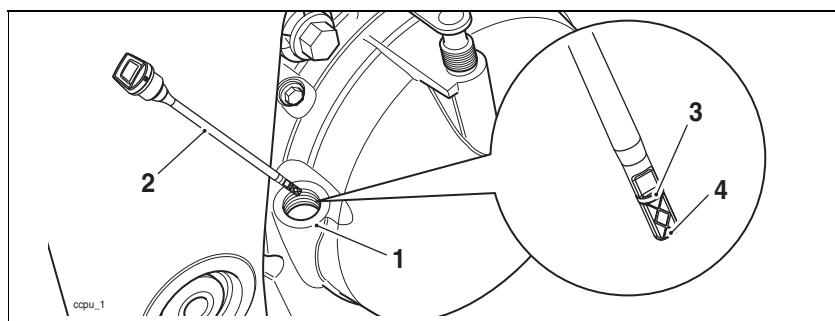
In order for the engine, transmission, and clutch to function correctly, maintain the engine oil at the correct level, and change the oil and oil filter in accordance with scheduled maintenance requirements.

#### ! Warning

Motorcycle operation with insufficient, deteriorated, or contaminated engine oil will cause accelerated engine wear and may result in engine or transmission seizure. Seizure of the engine or transmission may lead to sudden loss of control and an accident.

## Maintenance and Adjustment

### Oil Level Inspection



1. Filler
2. Filler plug/dipstick
3. Upper marking
4. Lower marking

**Note:**

- An accurate indication of the level of oil in the engine is only shown when the engine oil is at normal operating temperature, the motorcycle is upright (not on the side stand) and the filler plug/dipstick has been installed and fully tightened.

#### **Caution**

Running the engine with insufficient oil will cause engine damage. If the low oil pressure indicator remains on, stop the engine immediately and investigate the cause.

#### **Warning**

Never start the engine or run the engine in a confined area. Exhaust fumes are poisonous and can cause loss of consciousness and death within a short period of time. Always operate your motorcycle in the open-air or in an area with adequate ventilation.

Start the engine and run at idle for approximately five minutes.

Stop the engine and wait for three minutes to allow the oil to settle.

With the motorcycle upright, remove the filler plug/dipstick, wipe the blade clean, install and fully tighten.

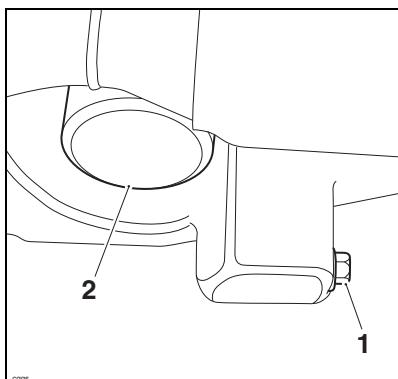
Remove the filler plug/dipstick.

The oil level is indicated by lines on the filler plug/dipstick. When full, the indicated oil level must be level with the upper marking on the dipstick.

If the oil level is below the lower marking, add oil a little at a time until the correct level is reached. Once the correct level is reached, install the filler plug/dipstick.

## Maintenance and Adjustment

### Oil and Oil Filter Change



1. Oil drain plug
2. Oil filter

The engine oil and filter must be replaced in accordance with scheduled maintenance requirements.

#### ! Warning

The oil may be hot to the touch. Avoid contact with the hot oil by wearing suitable protective clothing, gloves, eye protection, etc. Contact with hot oil may cause the skin to be scalded or burned.

Unscrew and remove the oil filter using Triumph service tool T3880313. Dispose of the old filter in an environmentally friendly way.

Apply a thin smear of clean engine oil to the sealing ring of the new oil filter. Install the oil filter and tighten to **7 lbf ft (10 Nm)**.

Incorporating a new washer, install the oil drain plug and tighten to **18 lbf ft (25 Nm)**.

Fill the engine with a 10W/40 or 10W/50 semi or fully synthetic motorcycle engine oil that meets specification API SH (or higher) AND JASO MA.

Start the engine and allow it to idle for a minimum of 30 seconds.

#### ! Caution

Raising the engine speed above idle before the oil reaches all parts of the engine can cause engine damage or seizure. Only raise engine speed after running the engine for 30 seconds to allow the oil to circulate fully.

Warm up the engine thoroughly, and then stop the engine and secure the motorcycle in an upright position on level ground.

Place an oil drain pan beneath the engine.

Remove the oil drain plug.

## Maintenance and Adjustment

### Caution

If the engine oil pressure is too low, the low oil pressure warning light will illuminate. If this light stays on when the engine is running, stop the engine immediately and investigate the cause. Running the engine with low oil pressure will cause engine damage.

Ensure that the low oil pressure warning light extinguishes shortly after starting.

Turn off the ignition, check the oil level using the method previously described, and top-off to between the minimum and maximum level lines on the dipstick.

### Disposal of Used Engine Oil and Oil Filters

To protect the environment, do not pour oil on the ground, down sewers or drains, or into groundwater sources. Do not place used oil filters in with general waste. If in doubt, contact your local authority.

### Oil Specification and Grade

Triumph high performance fuel injected engines are designed to use 10W/40 or 10W/50 semi or fully synthetic motorcycle engine oil that meets specification API SH (or higher) AND JASO MA.

Do not add any chemical additives to the engine oil. The engine oil also lubricates the clutch and any additives could cause the clutch to slip.

Do not use mineral, vegetable, non-detergent oil, castor based oils or any oil not conforming to the required specification. The use of these oils may cause instant, severe engine damage.

### Cooling System



To ensure efficient engine cooling, check the coolant level each day before riding the motorcycle, and top-off the coolant if the level is low.

#### Note:

- A year-round, Hybrid Organic Acid Technology (known as Hybrid OAT or HOAT) coolant is installed in the cooling system when the motorcycle leaves the factory. It is colored green, contains a 50% solution of ethylene glycol based antifreeze, and has a freezing point of -35°C (-31°F).

### Corrosion Inhibitors

To protect the cooling system from corrosion, the use of corrosion inhibitor chemicals in the coolant is essential.

If coolant containing a corrosion inhibitor is not used, the cooling system will accumulate rust and scale in the water jacket and radiator. This will block the coolant passages, and considerably reduce the efficiency of the cooling system.

## Maintenance and Adjustment

### Warning

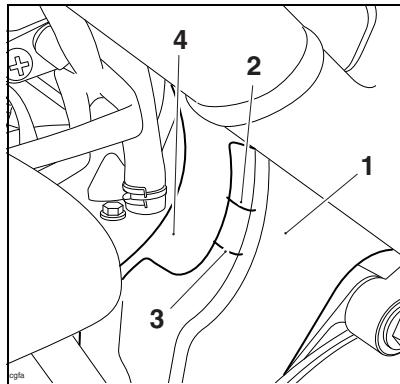
HD4X Hybrid OAT coolant contains corrosion inhibitors and anti-freeze suitable for aluminum engines and radiators. Always use the coolant in accordance with the instructions of the manufacturer.

Coolant that contains anti-freeze and corrosion inhibitors contains toxic chemicals that are harmful to the human body. Never swallow anti-freeze or any of the motorcycle coolant.

#### Note:

- **HD4X Hybrid OAT coolant, as supplied by Triumph, is pre-mixed and does not need to be diluted prior to filling or topping-off the cooling system.**

### Coolant Level Inspection



1. Expansion tank cover
2. MAX mark
3. MIN mark
4. Expansion tank

Position the motorcycle on level ground and in an upright position.

The coolant level within the expansion tank can be inspected on the left hand side of the motorcycle without removing any covers.

Check the coolant level in the expansion tank. The coolant level must be between the MAX and MIN level marks moulded into the expansion tank cover. If the coolant is below the minimum level, the coolant level must be adjusted.

## Maintenance and Adjustment

### Coolant Level Adjustment

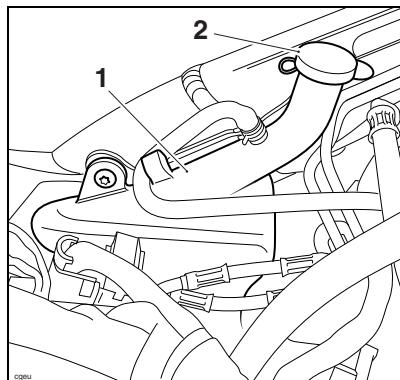
#### ⚠ Warning

Do not remove the radiator pressure cap when the engine is hot. When the engine is hot, the coolant inside the radiator will be hot and also under pressure. Contact with this hot, pressurized coolant will cause scalds and skin damage.

Allow the engine to cool.

To access the expansion tank, raise and support the fuel tank (see page 85).

Remove the cap from the expansion tank and add coolant mixture through the filler opening until the level reaches the MAX mark on the expansion tank cover.



1. Expansion tank

2. Tank cap

Refit the cap.

Lower and secure the fuel tank (see page 86).

#### Note:

- If the coolant level is being checked because the coolant has overheated, also check the level in the radiator and top-off if necessary.
- In an emergency, distilled water can be added to the cooling system. However, the coolant must then be drained and replenished with HD4X Hybrid OAT coolant as soon as possible.

#### ⚠ Caution

If hard water is used in the cooling system, it will cause scale accumulation in the engine and radiator and considerably reduces the efficiency of the cooling system. Reduced cooling system efficiency may cause the engine to overheat and suffer severe damage.

## Maintenance and Adjustment

### Coolant Change

Have the coolant changed by an authorized Triumph dealer in accordance with scheduled maintenance requirements.

### Radiator and Hoses

Check the radiator hoses for cracks or deterioration, and hose clips for tightness in accordance with scheduled maintenance requirements. Have your authorized Triumph dealer replace any defective items.

Check the radiator fins for obstructions by insects, leaves or mud. Clean off any obstructions with a stream of low-pressure water.

#### Warning

The fan operates automatically when the engine is running. Always keep hands and clothing away from the fan as contact with the rotating fan can cause injury.

#### Caution

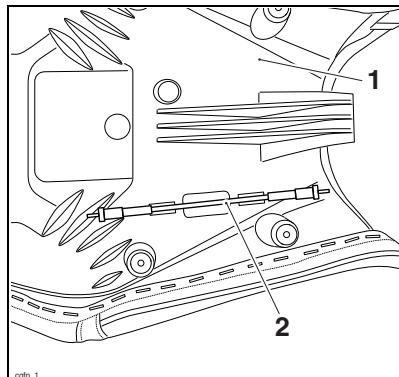
Using high-pressure water sprays, such as from a car wash facility or household pressure washer, can damage the radiator fins, cause leaks and impair the radiator's efficiency.

Do not obstruct or deflect airflow through the radiator by installing unauthorized accessories, either in front of the radiator or behind the cooling fan. Interference with the radiator airflow can cause overheating, potentially resulting in engine damage.

### Fuel Tank

#### Raising

Remove the seat (see page 52) and remove the fuel tank prop from its location on the seat base. Store the seat as described on page 52.

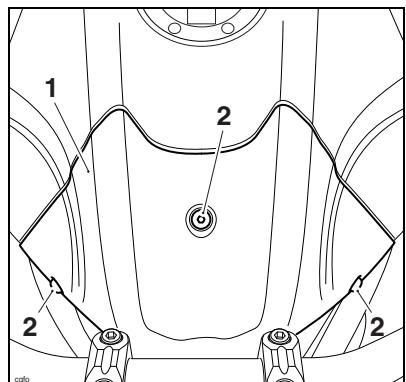


1. Seat

2. Fuel tank prop

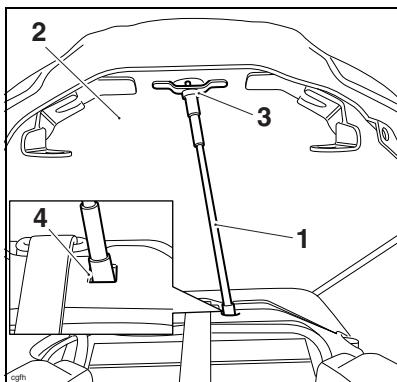
Release the three fasteners and remove the front panel from the fuel tank.

## Maintenance and Adjustment



**1. Front panel**  
**2. Fasteners**

Remove the front fasteners from the fuel tank.



**1. Fuel tank prop**  
**2. Fuel tank**  
**3. Supporting point, fuel tank**  
**4. Supporting point, air box**

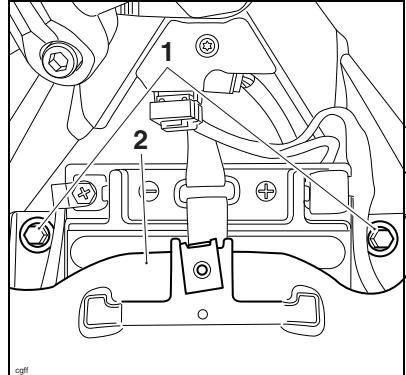
### Lowering

While holding the fuel tank, remove the fuel tank prop and lower the fuel tank. Reinstall the front fasteners and tighten to **35 lbf in (4 Nm)**.

Reinstall the front panel and tighten the fasteners to **17.5 lbf in (3 Nm)**.

Securely fit the fuel tank support to its location on the seat.

Install the seat (see page 52).

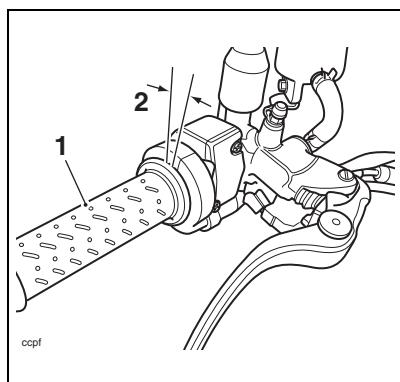


**1. Fasteners**  
**2. Fuel tank**

Pivot the fuel tank upwards at the front. While holding the fuel tank in the raised position, locate the fuel tank prop into the support points on the air box and the fuel tank.

## Maintenance and Adjustment

### Throttle Control



1. Throttle grip
2. Correct setting 0.08 - 0.12 in  
(2 - 3 mm)

#### ! Warning

Always be alert for changes in the 'feel' of the throttle and have the throttle system checked by an authorized Triumph dealer if any changes are detected. Changes can be due to wear in the mechanism, which could lead to a sticking throttle.

An incorrectly adjusted, sticking or stuck throttle will lead to loss of motorcycle control and an accident.

### Inspection

#### ! Warning

Use of the motorcycle with incorrectly adjusted, incorrectly routed, sticking or damaged throttle cables will interfere with the throttle function resulting in loss of motorcycle control and an accident.

To avoid incorrect adjustment, incorrect routing, or continued use of a sticking or damaged throttle, always have your throttle checked and adjusted by your authorized Triumph dealer.

The throttle grip controls the throttle valves in the throttle bodies. If the throttle cables are incorrectly adjusted, either too tight or too loose, the throttle may be difficult to control and performance will be adversely affected.

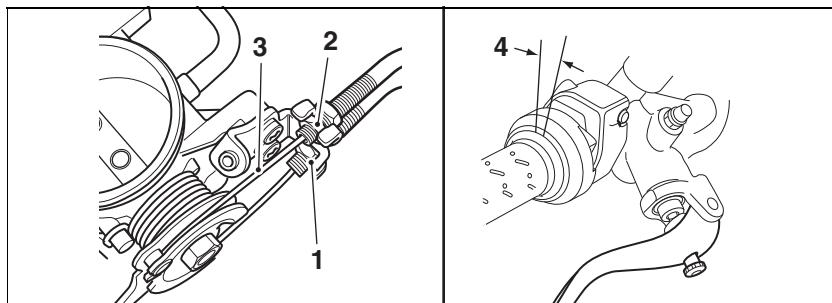
Check the throttle grip free play in accordance with scheduled maintenance requirements and make adjustments as necessary.

Check that the throttle opens smoothly, without undue force and that it closes without sticking. Have your authorized Triumph dealer check the throttle system if a problem is detected or any doubt exists.

Check that there is 0.08 - 0.12 in (2 - 3 mm) of throttle grip free play when lightly turning the throttle grip back and forth at all steering angles.

## Maintenance and Adjustment

If there is an incorrect amount of free play, Triumph recommends that you have adjustments made by your authorized Triumph dealer. However, in an emergency, throttle adjustment may be made as follows:



1. Opening cable adjuster
2. Closing cable adjuster
3. Closing cable – free play measurement point
4. Opening cable – free play measurement point

Remove the seat (see page 52).

Release the three fasteners and remove the front panel from the fuel tank.

Disconnect the battery, negative (black) lead first.

Remove the fuel tank.

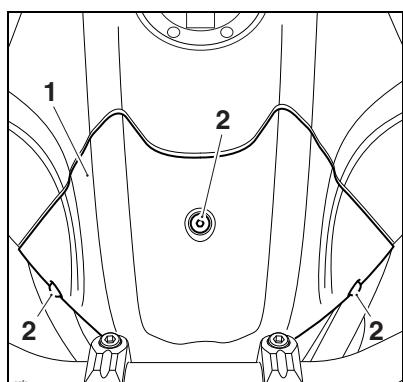
Loosen the locknuts on the 'opening' cable adjusters.

Rotate the 'opening' cable adjuster at the twist grip end such that it has an equal amount of adjustment in each direction.

Rotate the 'opening' cable adjuster at the throttle body end of the cable to give 0.08 - 0.12 in (2 - 3 mm) of play at the twist grip. Tighten the locknut to **22 lbf in (2.5 Nm)**.

Make any minor adjustments as necessary to give 0.08 - 0.12 in (2 - 3 mm) of play using the adjuster near the twist grip end of the cable. Tighten the locknut.

With the throttle fully closed, ensure that there is 0.08 - 0.12 in (2 - 3 mm) of free play in the 'closing' cable at the throttle cam attached to the throttle bodies. If necessary, adjust at the throttle body end in the same way as the 'opening' cable, until 0.08 - 0.12 in (2 - 3 mm) of play is present.



1. Front panel
2. Fasteners

## Maintenance and Adjustment

### Warning

Ensure that all the adjuster locknuts of all cables are tightened, as a loose locknut could result in a sticking throttle.

An incorrectly adjusted, sticking or stuck throttle can lead to loss of motorcycle control and an accident.

Install the fuel tank.

Reconnect the battery, positive (red) lead first.

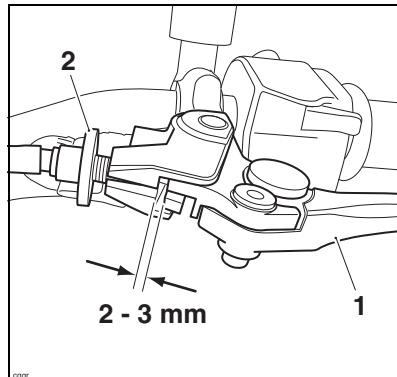
Install the front panel to the fuel tank and tighten the fasteners to **3 Nm**.

Install the seat (see page 52).

Check that the throttle opens smoothly, without undue force and that it closes without sticking.

Ride carefully to your nearest authorized Triumph dealer and have them check the throttle system thoroughly before riding again.

### Clutch



1. Clutch lever

2. Adjuster

3. Correct setting **0.08 - 0.12 in  
(2 - 3 mm)**

The motorcycle is equipped with a cable-operated clutch.

If the clutch lever has excessive free play, the clutch may not disengage fully. This will cause difficulty in shifting gear and selecting neutral. This may cause the engine to stall and make the motorcycle difficult to control. Conversely, if the clutch lever has insufficient free play the clutch may not engage fully, causing the clutch to slip, which will reduce performance and cause premature clutch wear.

Clutch lever free play must be checked in accordance with scheduled maintenance requirements.

## Maintenance and Adjustment

### Inspection

Check that there is 0.08 - 0.12 in (2 - 3 mm) clutch lever free play at the lever.

If there is an incorrect amount of free play, adjustments must be made.

### Adjustment

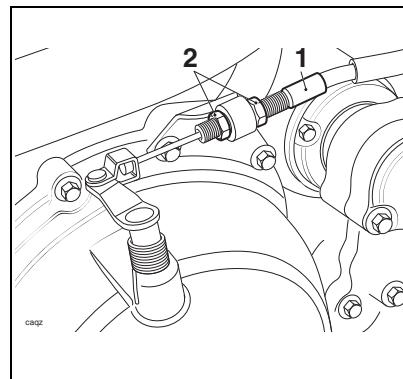
Turn the adjuster on the lever until the correct amount of clutch lever free play is achieved at all steering angles.

If correct adjustment cannot be made using the lever adjuster, use the cable adjuster at the lower end of the cable.

Loosen the adjuster locknut.

Turn the outer cable adjuster to give 0.08 - 0.12 in (2 - 3 mm) of free play at the clutch lever.

Tighten the locknut.



1. Clutch cable  
2. Adjuster

### Drive Chain



For safety and to prevent excessive wear the drive chain must be checked, adjusted and lubricated in accordance with scheduled maintenance requirements. Checking, adjustment and lubrication must be carried out more frequently for extreme conditions such as salty or heavily gritted roads.

If the chain is badly worn or incorrectly adjusted (either too loose or too tight) the chain could jump off the sprockets or break. Therefore, always replace worn or damaged chains using genuine Triumph parts supplied by an authorized Triumph dealer.

#### ! Warning

A loose or worn chain, or a chain that breaks or jumps off the sprockets could catch on the engine sprocket or lock the rear wheel.

A chain that snags on the engine sprocket will injure the rider and lead to loss of motorcycle control and an accident.

Similarly, locking the rear wheel will lead to loss of motorcycle control and an accident.

## Maintenance and Adjustment

### Chain Lubrication

Lubrication is necessary every 200 miles and also after riding in wet weather, on wet roads, or any time that the chain appears dry.

Use the special chain lubricant as recommended in the Specification section.

Apply lubricant to the sides of the rollers then allow the motorcycle to stand unused for at least 8 hours (overnight is ideal). This will allow the oil to penetrate to the chain O-rings etc.

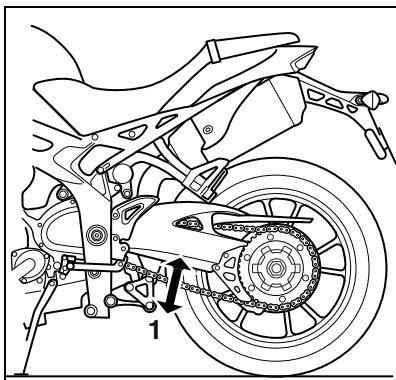
Before riding, wipe off any excess oil.

If the chain is especially dirty, clean first and then apply oil as mentioned above.

#### Caution

Do not use a pressure wash to clean the chain as this may cause damage to the chain components.

### Chain Free-Movement Inspection



#### 1. Maximum movement position

#### Warning

Before starting work, ensure the motorcycle is stabilized and adequately supported. This will help prevent injury to the operator or damage to the motorcycle.

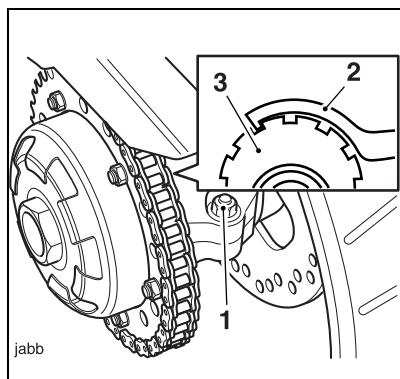
Place the motorcycle on a level surface and hold it in an upright position with no weight on it.

Rotate the rear wheel by pushing the motorcycle to find the position where the chain is tightest, and measure the vertical movement of the chain midway between the sprockets.

The vertical movement of the drive chain must be in the range 0.8 - 1.2 in (21 - 30 mm).

## Maintenance and Adjustment

### Chain Free-Movement Adjustment



1. Adjuster clamp bolt
2. C-spanner
3. Eccentric adjuster

Loosen the adjuster clamp bolt

Using the C-spanner supplied in the tool kit, turn the rear hub/eccentric adjuster (clockwise to loosen, counter-clockwise to tighten) until the drive chain is correctly adjusted.

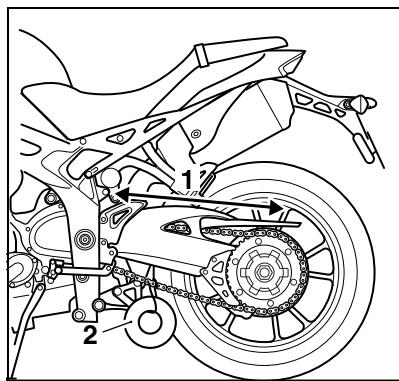
Tighten the clamp bolt to **41 lbf ft (55 Nm)**.

Repeat the chain adjustment check. Re-adjust if necessary.

### Warning

It is dangerous to operate the motorcycle with defective brakes and you must have your authorized Triumph dealer take remedial action before you attempt to ride the motorcycle again. Failure to take remedial action may reduce braking efficiency leading to loss of control or an accident.

### Chain and Sprocket Wear Inspection



1. Measure across 20 links
2. Weight

Remove the chain guards.

Stretch the chain taut by hanging a 20 - 40 lb (10 - 20 kg) weight on the chain.

Measure the length of 20 links on the straight part of the chain from pin center of the 1<sup>st</sup> pin to the pin center of the 21<sup>st</sup> pin. Since the chain may wear unevenly, take measurements in several places.

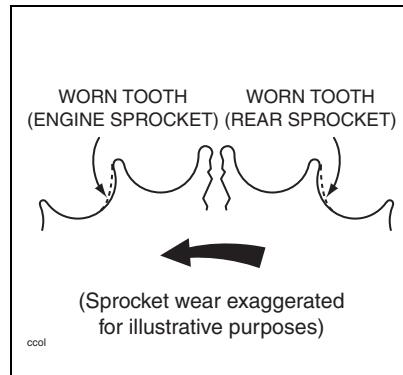
Check the rear brake effectiveness. Rectify if necessary.

## Maintenance and Adjustment

If the length exceeds the maximum service limit of 12.59 in (320 mm), the chain must be replaced.

Rotate the rear wheel and inspect the drive chain for damaged rollers, and loose pins and links.

Also inspect the sprockets for unevenly or excessively worn or damaged teeth.



If there is any irregularity, have the drive chain and/or the sprockets replaced by an authorized Triumph dealer.

Install the chain guards.

### ! Warning

The use of non-approved chains may result in a broken chain or may cause the chain to jump off the sprockets.

Use a genuine Triumph supplied chain as specified in the Triumph parts catalog.

Never neglect chain maintenance and always have chains installed by an authorized Triumph dealer.

### ! Caution

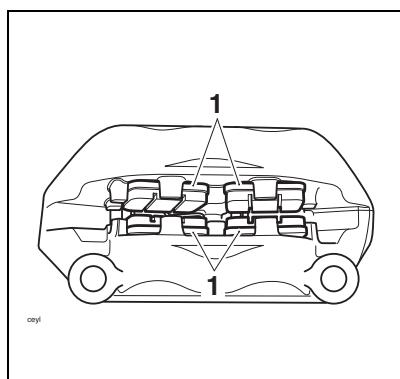
If the sprockets are found to be worn, always replace the sprockets and drive chain together.

Replacing worn sprockets without also replacing the chain will lead to premature wear of the new sprockets.

## Maintenance and Adjustment

### Brakes

#### Brake Wear Inspection

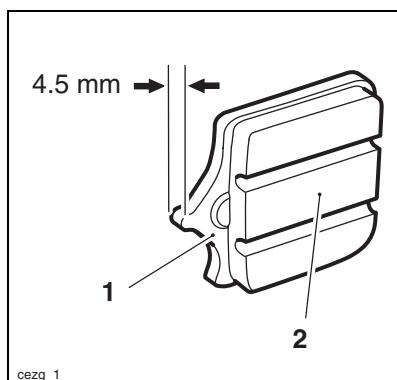


##### 1. Brake pads

Brake pads must be inspected in accordance with scheduled maintenance requirements and replaced if worn to, or beyond the minimum service thickness.

If the lining thickness of any pad is less than, 0.04 in (1.0 mm) (front) or 0.06 in (1.5 mm) (rear), replace all the pads on the wheel.

brake pads supplied and fitted by your Triumph dealer.



##### 1. Carrier plate

##### 2. Brake pad

#### Breaking-in New Brake Pads and Discs

After replacement brake discs and/or pads have been fitted to the motorcycle, we recommend a period of careful breaking-in that will optimise the performance and longevity of the discs and pads. The recommended distance for breaking-in new pads and discs is 200 miles (300 km).

After fitting new brake discs and/or pads avoid extreme braking, ride with caution and allow for greater braking distances during the breaking-in period.

#### Warning

If fitting new proprietary brand brake pads, check that the carrier plate of the brake pad is at least 4.5 mm thick.

Fitting brake pads with the carrier plate less than 4.5 mm thick may result in brake failure due to the possible loss of the brake pad as it wears.

Brake pads for this model supplied by Triumph will have the carrier plate at least 4.5 mm thick. Always have replacement

## Maintenance and Adjustment

### ! Warning

Brake pads must always be replaced as a wheel set. At the front, where two calipers are fitted on the same wheel, replace all the brake pads in both calipers.

Replacing individual pads will reduce braking efficiency and may cause an accident.

After replacement brake pads have been fitted, ride with extreme caution until the new pads have 'broken in'.

### Brake Pad Wear Compensation

Disc and brake pad wear is automatically compensated for and has no effect on the brake lever or pedal action. There are no parts that require adjustment on the front and rear brakes.

### ! Warning

If the brake lever or pedal feels soft when it is applied, or if the lever/pedal travel becomes excessive, there may be air in the brake lines and hoses or the brakes may be defective.

It is dangerous to operate the motorcycle under such conditions and your authorized Triumph dealer must rectify the fault before riding.

Riding with defective brakes may lead to loss of motorcycle control and an accident.

### Disc Brake Fluid

Inspect the level of brake fluid in both reservoirs and change the brake fluid in accordance with scheduled maintenance requirements. Use only DOT 4 fluid as recommended in the Specification section. The brake fluid must also be changed if it becomes, or is suspected of having become contaminated with moisture or any other contaminants.

### ! Warning

Brake fluid is hygroscopic which means it will absorb moisture from the air.

Any absorbed moisture will greatly reduce the boiling point of the brake fluid causing a reduction in braking efficiency.

Because of this, always replace brake fluid in accordance with scheduled maintenance requirements.

Always use new brake fluid from a sealed container and never use fluid from an unsealed container or from one which has been previously opened.

Do not mix different brands or grades of brake fluid.

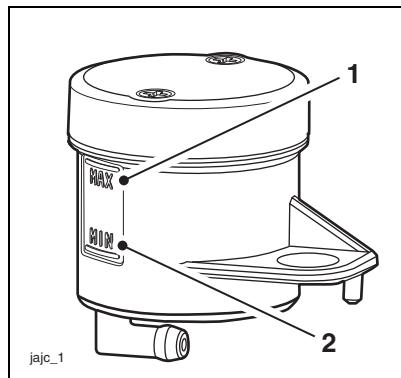
Check for fluid leakage around brake fittings, seals and joints and also check the brake hoses for splits, deterioration and damage.

Always rectify any faults before riding.

Failure to observe and act upon any of these items may cause a dangerous riding condition leading to loss of control and an accident.

## Maintenance and Adjustment

### Brake Fluid Level Inspection and Adjustment



1. Front brake fluid reservoir, upper level line
2. MIN level line

The brake fluid level in the reservoirs must be kept between the MAX and MIN level lines (reservoir held horizontal).

Remove the safety clip (front only).

Remove the reservoir cover.

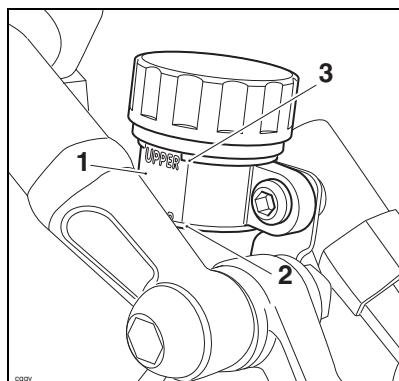
Fill the reservoir to the upper level line using new DOT 4 fluid from a sealed container.

Install the reservoir cover ensuring that the diaphragm seal is correctly fitted.

Install the safety clip.

#### ! Warning

If there has been an appreciable drop in the level of the fluid in either fluid reservoir, consult your authorized Triumph dealer for advice before riding. Riding with depleted brake fluid levels, or with a brake fluid leak is dangerous and will cause reduced brake performance potentially leading to loss of motorcycle control and an accident.



1. Rear brake fluid reservoir
2. Upper level
3. Lower level line

## Maintenance and Adjustment

### Brake Light Switches

The brake light is activated independently by either the front or rear brake. If, with the ignition in the ON position, the brake light does not work when the front brake lever is pulled or the rear brake pedal is pressed, have your authorized Triumph dealer investigate and rectify the fault.

#### Warning

Riding the motorcycle with defective brake lights is illegal and dangerous.

An accident causing injury to the rider and other road users may result from use of a motorcycle with defective brake lights.

### Steering/Wheel Bearings

#### Caution

To prevent risk of injury from the motorcycle falling during the inspection, ensure that the motorcycle is stabilized and secured on a suitable support. Do not exert extreme force against each wheel or rock each wheel vigorously as this may cause the motorcycle to become unstable and cause injury by falling from its support. Ensure that the position of the support block will not cause damage to the sump.

### Steering Inspection

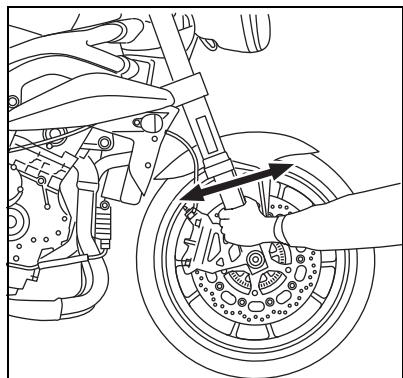
Lubricate and inspect the condition of the steering head (steering) bearings in accordance with scheduled maintenance requirements.

#### Note:

- **Always inspect the wheel bearings at the same time as the steering bearings.**

## Maintenance and Adjustment

### Inspecting the Steering (Steering Head) Bearings for Free Play



Position the motorcycle on level ground, in an upright position.

Raise the front wheel above the ground and support the motorcycle.

Standing at the front of the motorcycle, hold the lower end of the front forks and try to move them forwards and backwards.

If any free play can be detected in the steering (steering head) bearings, ask your authorized Triumph dealer to inspect and rectify any faults before riding.

#### ⚠ Warning

Riding the motorcycle with incorrectly adjusted or defective steering (steering head) bearings is dangerous and may cause loss of motorcycle control and an accident.

Remove the support and place the motorcycle on the side stand.

### Wheel Bearings Inspection

If the wheel bearings in the front or rear wheel allow play in the wheel hub, are noisy, or if the wheel does not turn smoothly, have your authorized Triumph dealer inspect the wheel bearings.

The wheel bearings must be inspected at the intervals specified in the scheduled maintenance chart.

Position the motorcycle on level ground, in an upright position.

Raise the front wheel above the ground and support the motorcycle.

Standing at the side of the motorcycle, gently rock the top of the front wheel from side to side.

If any free play can be detected, ask your authorized Triumph dealer to inspect and rectify any faults before riding.

Reposition the lifting device and repeat the procedure for the rear wheel.

#### ⚠ Warning

Operation with worn or damaged front or rear wheel bearings is dangerous and may cause impaired handling and instability leading to an accident. If in doubt, have the motorcycle inspected by an authorized Triumph dealer before riding.

Remove the support and place the motorcycle on the side stand.

## Maintenance and Adjustment

### Front Suspension

#### Front Fork Inspection

Examine each fork for any sign of damage, scratching of the slider surface, or for oil leaks.

If any damage or leakage is found, consult an authorized Triumph dealer.

To check that the forks operate smoothly:

- Position the motorcycle on level ground.
- While holding the handlebars and applying the front brake, pump the forks up and down several times.
- If roughness or excessive stiffness is detected, consult your authorized Triumph dealer.

#### Note:

- The suspension movement will be affected by adjustment settings.

#### ! Warning

Riding the motorcycle with defective or damaged suspension is dangerous and may lead to loss of control and an accident.

#### ! Warning

Never attempt to dismantle any part of the suspension units, as all units contain pressurized oil. Skin and eye damage can result from contact with the pressurized oil.

## Maintenance and Adjustment

### Suspension Setting Chart

LOADING		FRONT			REAR	
		Spring Pre-Load <sup>1</sup>	Rebound Damping <sup>2</sup>	Compression Damping <sup>2</sup>	Rebound Damping <sup>2</sup>	Compression Damping <sup>2</sup>
Solo Riding	Standard	7.00	1.50	1.50	1.25	1.25
	Softer	7.00	1.50	1.50	2.50	2.50
	Firmer	7.00	0.75	0.75	1.00	1.00
Rider and Passenger		7.00	0.75	0.75	0.75	0.75

<sup>1</sup> Number of adjuster turns clockwise from the fully counter-clockwise position.  
<sup>2</sup> Number of adjuster turns counter-clockwise from the fully clockwise position.

**Note:**

- These charts are only a guide. Setting requirements may vary for rider weight and personal preferences. See the following pages for information regarding suspension adjustment.

The standard suspension settings provide a comfortable ride and good handling characteristics for general, solo riding. The chart shows suggested settings for the front and rear suspension.

#### **Warning**

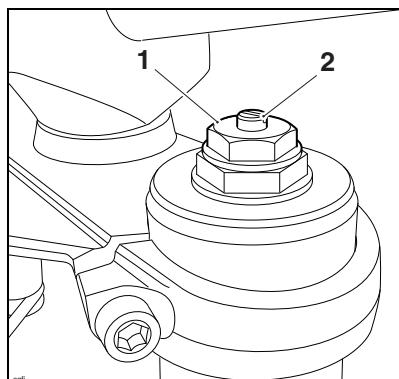
Ensure that the adjusters are set to the same setting on both forks. Settings which vary from left to right could significantly change handling characteristics leading to loss of control and an accident.

#### **Warning**

Ensure that the correct balance between front and rear suspension is maintained. Suspension imbalance could significantly change handling characteristics leading to loss of control and an accident. Refer to the chart above for further information or consult your dealer.

## Maintenance and Adjustment

### Front Suspension Settings



1. Spring pre-load adjuster
2. Rebound damping force adjuster

### Spring Pre-Load Adjustment

The spring pre-load adjusters are located at the top of each fork.

To change the spring pre-load, rotate the adjuster clockwise to increase pre-load, or counter-clockwise to decrease pre-load. Always count the number of clockwise turns from the fully counter-clockwise position and set both forks to the same settings.

#### Note:

- The motorcycle is delivered from the factory with the spring pre-load set at 7 clockwise turns from the fully counter-clockwise position.

### Rebound Damping Adjustment

The rebound damping adjuster is located at the top of each fork.

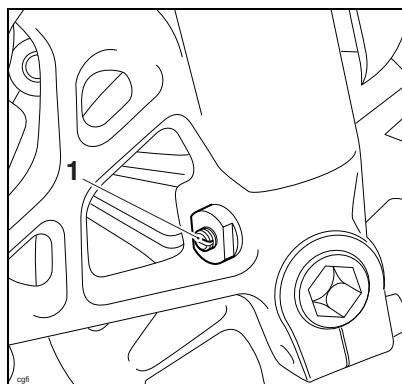
To change the rebound damping force, rotate the slotted adjuster clockwise to increase, or counter-clockwise to decrease. Always count the number of counter-clockwise turns from the fully clockwise position and set both forks to the same settings.

#### Note:

- The motorcycle is delivered from the factory with the rebound set at 1.5 counter-clockwise turns from the fully clockwise position.

## Maintenance and Adjustment

### Compression Damping Adjustment



#### 1. Compression damping adjuster

The compression damping adjuster is located near the bottom of both forks, adjacent to the wheel spindle.

To change the compression damping force, rotate the slotted adjuster clockwise to increase, or counter-clockwise to decrease. Always count the number of counter-clockwise turns from the fully clockwise position and set both forks to the same settings.

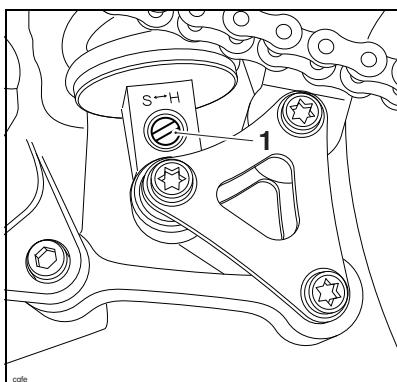
#### Note:

- **The motorcycle is delivered from the factory with the compression damping set at 1.5 counter-clockwise turns from the fully clockwise position.**

### Rear Suspension Adjustment

The rear suspension unit is adjustable for both rebound and compression damping.

#### Rebound Damping Adjustment



#### 1. Rebound damping adjuster

The rebound damping adjuster is located at the bottom of the rear suspension unit on the left hand side of the motorcycle.

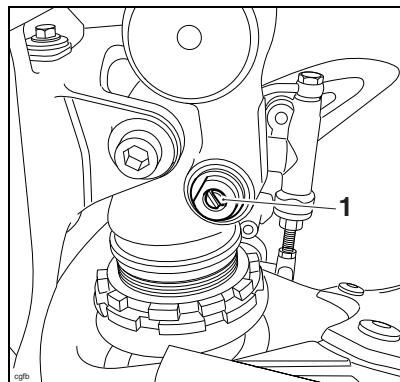
To adjust the rebound damping setting, rotate the adjuster clockwise to increase rebound damping and counter-clockwise to decrease. Always count the number of counter-clockwise turns from the fully clockwise position.

#### Note:

- **The motorcycle is delivered from the factory with the rebound adjuster set at 1.25 counter-clockwise turns from the fully clockwise position.**

## Maintenance and Adjustment

### Compression Damping Adjustment



#### 1. Compression damping adjuster

The compression damping adjuster is situated below the rear suspension unit reservoir.

To adjust the compression damping setting, rotate the slotted adjuster clockwise to increase, or counter-clockwise to decrease. Always count the number of counter-clockwise turns from the fully clockwise position.

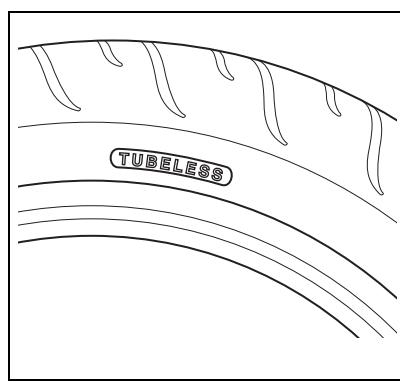
#### Note:

- Always count the number of counter-clockwise turns from the fully clockwise position.

#### Warning

The rear suspension unit spring pre-load is not rider adjustable. Any attempt to adjust the spring pre-load could result in a dangerous riding condition leading to loss of control and an accident.

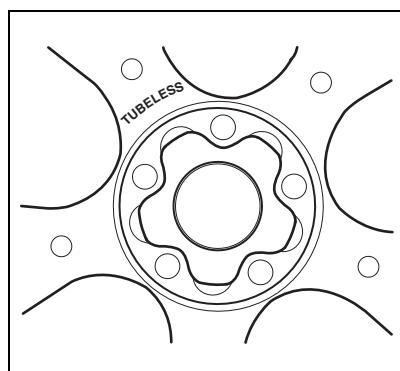
### Tires



Typical Tire Marking



This motorcycle is equipped with tubeless tires, valves and wheel rims. Use only tires marked 'TUBELESS' and tubeless valves on rims marked 'SUITABLE FOR TUBELESS TIRES'.



Wheel Marking

## Maintenance and Adjustment

### Tire Inflation Pressures

Correct inflation pressure will provide maximum stability, rider comfort and tire life. Always check tire pressures before riding when the tires are cold. Check tire pressures daily and adjust if necessary. See the Specification section for details of the correct inflation pressures.

### Tire Pressure Monitoring System (if fitted)

The tire pressures shown on your instrument pack indicate the actual tire pressure at the time of selecting the display. This may differ from the inflation pressure set when the tires are cold because tires become warmer during riding, causing the air in the tire to expand and increase the inflation pressure. The cold inflation pressures specified by Triumph take account of this.

Owner's must only adjust tire pressures when the tires are cold using an accurate pressure gauge, and must not use the tire pressure display on the instruments.

#### ! Warning

Incorrect tire inflation will cause abnormal tread wear and instability problems that may lead to loss of control and an accident. Under-inflation may result in the tire slipping on, or coming off the rim. Over-inflation will cause instability and accelerated tread wear. Both conditions are dangerous as they may cause loss of control leading to an accident.

### Tire Wear

As the tire tread wears down, the tire becomes more susceptible to punctures and failure. It is therefore not recommended to use tires until they are worn to their minimum.

### Minimum Recommended Tread Depth

In accordance with the periodic maintenance chart, measure the depth of the tread with a depth gauge, and replace any tire that has worn to, or beyond the minimum allowable tread depth specified in the table below:

Under 80 mph (130 km/h)	0.08 in (2 mm)
Over 80 mph (130 km/h)	Rear 0.12 in (3 mm) Front 0.08 in (2 mm)

#### ! Warning

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

## Maintenance and Adjustment

### 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 then 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.

### Warning

Operation with excessively worn tires is hazardous and will adversely affect traction, stability and handling which may lead to loss of control and an accident.

When tubeless tires become punctured, leakage is often very slow. Always inspect tires very closely for punctures. Check the tires for cuts, embedded nails or other sharp objects. Operation with punctured or damaged tires will adversely affect motorcycle stability and handling which may lead to loss of control or an accident.

Check the rims for dents or deformation. Operation with damaged or defective wheels or tires is dangerous and loss of motorcycle control or an accident could result.

Always consult your authorized Triumph dealer for tire replacement, or for a safety inspection of the tires.

### Tire Replacement

All Triumph motorcycles are carefully and extensively tested in a range of riding conditions to ensure that the most effective tire combinations are approved for use on this model. It is essential that approved tires, fitted in approved combinations, are used when purchasing replacement tires. The use of non-approved tires, or approved tires in non-approved combinations, may lead to motorcycle instability and an accident. On models fitted with ABS, different wheel speeds, caused by non-approved tires can affect the function of the ABS computer.

See the Specification section for details of approved tire combinations. Always have tires installed and balanced by your authorized Triumph dealer who has the necessary training and skills to ensure safe, effective installation.

### Tire Pressure Monitoring System (Only on models fitted with TPMS)

### Caution

An adhesive label is fitted to the wheel rim to indicate the position of the tire pressure sensor. Care must be taken when replacing the tires to prevent any damage to the tire pressure sensors. Always have your tires installed by your authorized Triumph dealer and inform them that tire pressure sensors are installed to the wheels.

## Maintenance and Adjustment

### ! Warning

On models fitted with ABS, the ABS computer operates by comparing the relative speed of the front and rear wheels. Use of non-recommended tires can affect wheel speed and cause the ABS function not to operate, potentially leading to loss of control and an accident in conditions where the ABS would normally function.

### ! Warning

If tire damage is suspected, such as after striking the curb, ask your authorized Triumph dealer to inspect the tire both internally and externally. Remember, tire damage may not always be visible from the outside. Operation of the motorcycle with damaged tires could lead to loss of control and an accident.

### ! Warning

If a tire sustains a puncture, the tire must be replaced. Failure to replace a punctured tire, or operation with a repaired tire can lead to instability, loss of control or an accident.

### ! Warning

When replacement tires are required, consult your authorized Triumph dealer who will arrange for the tires to be selected, in a correct combination, from the approved list and fitted according to the tire manufacturer's instructions.

When tires are replaced, allow time for the tires to seat to the rim (approximately 24 hours). During this seating period, ride cautiously as an incorrectly seated tire could cause loss of control or an accident.

Initially, the new tires will not produce the same handling characteristics as the worn tires and the rider must allow adequate riding distance (approximately 100 miles) to become accustomed to the new handling characteristics.

24 hours after fitting, the tire pressures must be checked and adjusted, and the tires examined for correct seating. Rectification must be carried out as necessary.

The same checks and adjustments must also be carried out when 100 miles have been travelled after fitting.

## Maintenance and Adjustment

### ! Warning

Use of a motorcycle with incorrectly seated tires, incorrectly adjusted tire pressures, or when not accustomed to its handling characteristics may lead to loss of control and an accident.

### ! Warning

Tires that have been used on a rolling road dynamometer may become damaged. In some cases, the damage may not be visible on the external surface of the tire. Tires must be replaced after such use as continued use of a damaged tire may lead to instability, loss of control and an accident.

### ! Warning

Accurate wheel balance is necessary for safe, stable handling of the motorcycle. Do not remove or change any wheel balance weights. Incorrect wheel balance may cause instability leading to loss of control and an accident.

When wheel balancing is required, such as after tire replacement, see your authorized Triumph dealer.

Only use self-adhesive weights. Clip-on weights may damage the wheel and tire resulting in tire deflation, loss of control and an accident.

## Battery

### ! Warning

Under some circumstances, the battery can give off explosive gases; keep sparks, flames and cigarettes away. Provide adequate ventilation when charging or using the battery in an enclosed space.

The battery contains sulphuric acid (battery acid). Contact with skin or eyes may cause severe burns. Wear protective clothing and a face shield.

If battery acid gets on your skin, flush with water immediately.

If battery acid gets in your eyes, flush with water for at least 15 minutes and SEEK MEDICAL ATTENTION IMMEDIATELY.

If battery acid is swallowed, drink large quantities of water and SEEK MEDICAL ATTENTION IMMEDIATELY.

KEEP BATTERY ACID OUT OF THE REACH OF CHILDREN.

### ! Warning

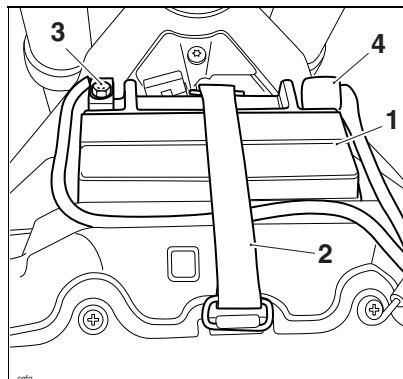
The battery contains harmful materials. Always keep children away from the battery whether or not it is fitted in the motorcycle.

Do not attach jump leads to the battery, touch the battery cables together or reverse the polarity of the cables as any of these actions may cause a spark which would ignite battery gases causing a risk of personal injury.

## Maintenance and Adjustment

### Battery Removal

Raise and support the fuel tank (see page 85).



1. Battery
2. Battery strap
3. Negative (black) terminal
4. Positive (red) terminal

Remove the battery strap.

Disconnect the battery leads, negative (black) lead first.

Take the battery out of the case.

### Battery Disposal

Should the battery ever require replacement, the original battery must be handed to a recycling agent who will ensure that the dangerous substances from which the battery is manufactured do not pollute the environment.

### Battery Maintenance

Clean the battery using a clean, dry cloth. Be sure that the cable connections are clean.

#### Warning

The battery acid is corrosive and poisonous and will cause damage to unprotected skin. Never swallow battery acid or allow it to come into contact with the skin. To prevent injury, always wear eye and skin protection when handling the battery.

The battery is a sealed type and does not require any maintenance other than checking the Voltage and routine recharging when required, such as during storage.

It is not possible to adjust the battery acid level in the battery; the sealing strip must not be removed.

#### Warning

Ensure that the battery terminals do not touch the motorcycle frame as this may cause a short circuit or spark, which would ignite battery gases causing a risk of personal injury.

## Maintenance and Adjustment

### Battery Discharge

#### Caution

The charge level in the battery must be maintained to maximize battery life. Failure to maintain the battery charge level could cause serious internal damage to the battery.

Under normal conditions, the motorcycle charging system will keep the battery fully charged. However, if the motorcycle is unused, the battery will gradually discharge due to a normal process called self discharge; the clock, engine control module (ECM) memory, high ambient temperatures, or the addition of electrical security systems or other electrical accessories will all increase this rate of battery discharge. Disconnecting the battery from the motorcycle during storage will reduce the rate of discharge.

### Battery Discharge During Storage and Infrequent Use of the Motorcycle

During storage or infrequent use of the motorcycle, inspect the battery Voltage weekly using a digital multimeter. Follow the manufacturer's instructions supplied with the meter.

Should the battery Voltage fall below 12.7 Volts, the battery should be charged (see page 109).

Allowing a battery to discharge or leaving it discharged for even a short period of time causes sulphation of the lead plates. Sulphation is a normal part of the chemical reaction inside the battery, however over time the sulphate can crystallise on the plates

making recovery difficult or impossible. This permanent damage is not covered by the motorcycle warranty, as it is not due to a manufacturing defect.

Keeping the battery fully charged reduces the likelihood of it freezing in cold conditions. Allowing a battery to freeze will cause serious internal damage to the battery.

### Battery Charging

For help with selecting a battery charger, checking the battery Voltage or battery charging, contact your local authorized Triumph dealer.

#### Warning

The battery gives off explosive gases; keep sparks, flames and cigarettes away. Provide adequate ventilation when charging or using the battery in an enclosed space.

The battery contains sulphuric acid (battery acid). Contact with skin or eyes may cause severe burns. Wear protective clothing and a face shield.

If battery acid gets on your skin, flush with water immediately.

If battery acid gets in your eyes, flush with water for at least 15 minutes and SEEK MEDICAL ATTENTION IMMEDIATELY.

If battery acid is swallowed, drink large quantities of water and SEEK MEDICAL ATTENTION IMMEDIATELY.

KEEP BATTERY ACID OUT OF THE REACH OF CHILDREN.

## Maintenance and Adjustment

### Caution

Do not use an automotive quick charger as it may overcharge and damage the battery.

Should the battery Voltage fall below 12.7 Volts, the battery should be charged using a Triumph approved battery charger. Always follow the instructions supplied with the battery charger.

For extended periods of storage (beyond two weeks) the battery should be removed from the motorcycle and kept charged using a Triumph approved maintenance charger.

Similarly, should the battery charge fall to a level where it will not start the motorcycle, remove the battery from the motorcycle before charging.

### Battery Installation

### Warning

Ensure that the battery terminals do not touch the motorcycle frame as this may cause a short circuit or spark, which would ignite battery gases causing a risk of personal injury.

Place the battery in the battery case.

Reconnect the battery, positive (red) lead first.

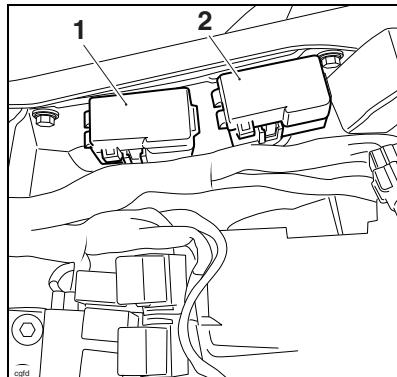
Apply a light coat of grease to the terminals to prevent corrosion.

Cover the positive terminal with the protective cap.

Install the battery strap.

Lower and secure the fuel tank (see page 86).

### Fuse Boxes



1. Front fuse box

2. Rear fuse box

The two fuse boxes are located beneath the seat.

### Warning

Always replace blown fuses with new ones of the correct rating (as specified on the fuse box cover) and never use a fuse of higher rating. Use of an incorrect fuse could lead to an electrical problem, resulting in motorcycle damage, loss of motorcycle control and an accident.

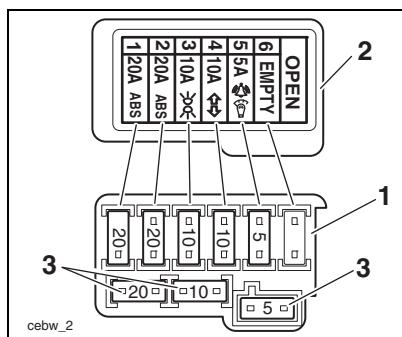
### Fuse Identification

A blown fuse is indicated when all of the systems protected by that fuse become inoperative. When checking for a blown fuse, use the tables to establish which fuse has blown.

## Maintenance and Adjustment

The fuse identification numbers listed in the tables correspond with those printed on the fuse box cover, as shown. Spare fuses are located at right angles to the main fuses and should be replaced if used.

### Front Fuse Box



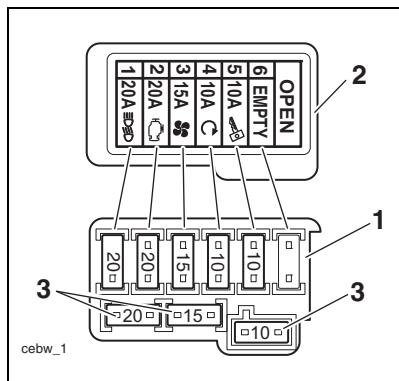
1. Fuse box
2. Fuse box cover
3. Spare fuses

### Note:

- For motorcycles without ABS, fuse positions 1 and 2 will be empty.

Circuit Protected	Position	Rating (Amps)
ABS	1	20
ABS	2	20
Tail light, license plate light, side lights	3	10
Turn signals	4	10
Alarm, instrument lights	5	5
Empty	6	-

### Rear Fuse Box



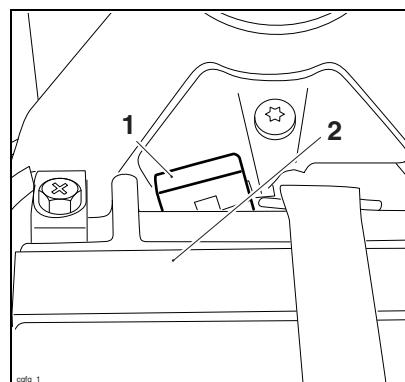
1. Fuse box
2. Fuse box cover
3. Spare fuses

Circuit Protected	Position	Rating (Amps)
Dip and main beam headlights	1	20
Engine management system	2	20
Cooling fan	3	15
Fuel pump	4	10
Ignition switch	5	10
Empty	6	-

## Maintenance and Adjustment

### Main Fuse

The 30 Amp main fuse is located in front of the battery. To allow access to this fuse, the front panel on the fuel tank must be removed.



1. Main fuse
2. Battery

### Headlights

#### Headlights

##### ! Warning

Adjust road speed to suit the visibility and weather conditions in which the motorcycle is being operated.

Ensure that the beams are adjusted to illuminate the road surface sufficiently far ahead without blinding oncoming traffic. An incorrectly adjusted headlight may impair visibility causing an accident.

##### ! Warning

Never attempt to adjust a headlamp beam when the motorcycle is in motion.

Any attempt to adjust a headlamp beam when the motorcycle is in motion may result in loss of control and an accident.

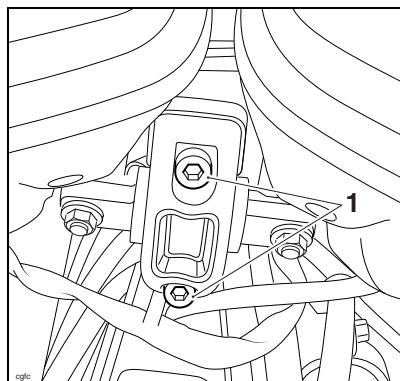
##### ! Caution

If the motorcycle is to be used under closed-course conditions, you may be asked to tape the visible outer surface of the headlight

When taped, the headlight will overheat and distort the outer surface. Therefore, to avoid headlight distortion, always disconnect the headlights when they are taped for use under closed-course conditions.

## Maintenance and Adjustment

### Headlight Adjustment - Vertical



#### 1. Vertical beam adjuster bolts

The vertical beams of the left hand and right hand headlights can only be adjusted together. Independent adjustment is not possible.

Switch the headlight dipped beam on.

Loosen the clamp bolts sufficiently to allow restricted movement of the headlights.

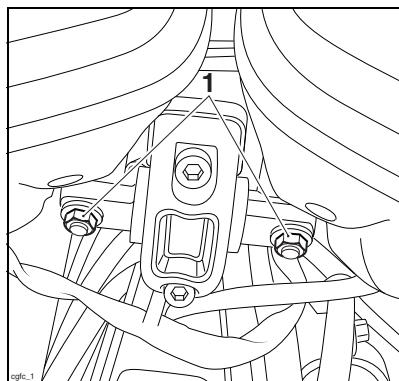
Adjust the position of the headlights to give the required beam setting.

Tighten the clamp bolts, front first, to **11 lbf ft (15 Nm)**.

Re-check the headlight beam settings.

Switch the headlights off when both beam settings are satisfactorily set.

### Headlight Adjustment - Horizontal



#### 1. Headlight mounting nut

The horizontal beams of both headlights can be adjusted individually. The same procedure is used to adjust either headlight.

Switch the headlight dipped beam on.

Loosen the headlight mounting nut.

Adjust the horizontal position of the headlight to give the required beam setting.

Tighten the nut to **22 lbf ft (30 Nm)**.

Repeat for the second headlight.

Re-check the headlight beam settings.

Switch the headlights off when both beam settings are satisfactorily set.

## Maintenance and Adjustment

### Headlight Bulb Replacement

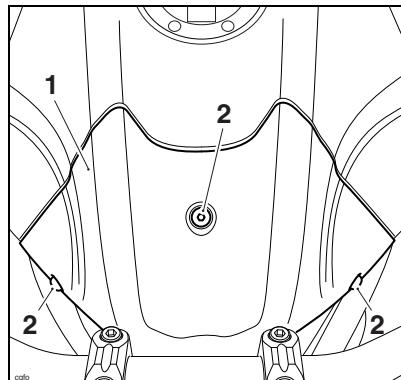
#### ⚠ Warning

The bulbs become hot during use. Always allow sufficient time for the bulbs to cool before handling. Avoid touching the glass part of the bulb. If the glass is touched or gets dirty, clean with alcohol before re-use.

#### ⚠ Caution

The use of non-approved headlight bulbs may result in damage to the headlight lens. Use a genuine Triumph supplied headlight bulb as specified in the Triumph Parts Catalog. Always have replacement headlight bulbs installed by an authorized Triumph dealer.

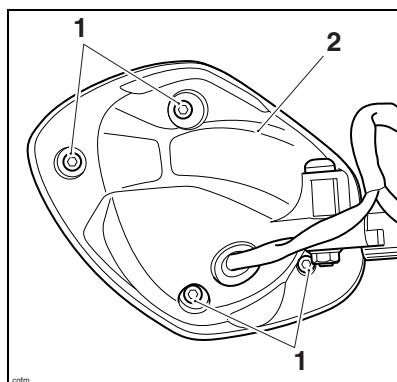
Release the three fasteners and remove the front panel from the fuel tank.



1. Front panel  
2. Fasteners

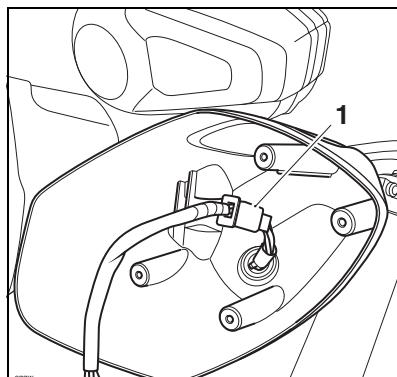
Disconnect the battery, negative (black) lead first.

While supporting the headlight, remove the fasteners and detach the headlight from its bowl.



1. Fasteners  
2. Headlight bowl

Disconnect the multi-pin connector from the main harness and remove the headlight.

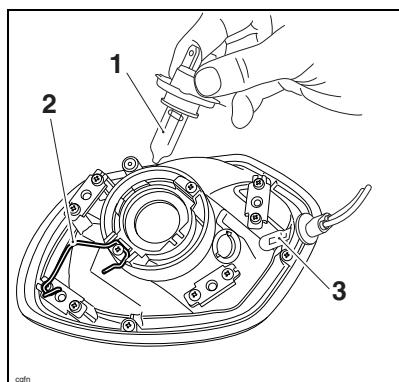


1. Multi-pin connector

## Maintenance and Adjustment

Disconnect the multi-pin electrical connector from the bulb and remove the rubber cover.

Detach the wire retainer from its clip (do not remove the screw) then remove the bulb from the light unit.



1. Headlight bulb

2. Bulb clip

3. Position lamp bulb

To remove the position lamp bulb:

Without pulling the wires, ease the bulb holder from its socket. The bulb is removed from its holder by pulling gently upwards.

Installation for both bulbs is the reverse of the removal procedure. Tighten the headlamp fasteners to **26 lbf in (3 Nm)**.

### ! Warning

Do not reconnect the battery until the assembly process has been completed. Premature battery reconnection could result in ignition of the battery gases causing risk of injury.

Reconnect the battery, positive (red) lead first. Refit the front panel and tighten the fasteners to **3 Nm**.

## Brake/Tail Light

### Brake/Tail Light Replacement

The brake/tail light unit is a sealed, maintenance free LED unit.

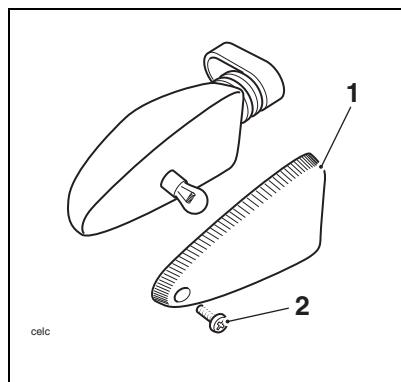
### ! Caution

When reconnecting the battery, connect the positive (red) lead first.

## Maintenance and Adjustment

### Turn Signal Lights

#### Bulb Replacement



1. Turn signal lens
2. Securing screw

The lens on each turn signal light is held in place by a securing screw located in the lens of the light.

Loosen the screw and remove the lens to gain access to the bulb for replacement.

### License Plate Light

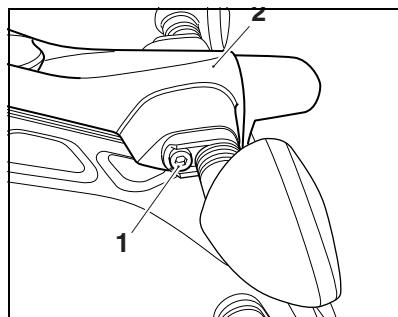
#### Bulb Replacement

Remove the front panel from the fuel tank. Disconnect the battery, negative (black) lead first.

#### Caution

Do not pull the license plate bracket more than is necessary to access the light's inside nut. Damage to the bracket will result from pulling it too far.

Remove the fasteners for both rear indicators.



1. Fastener, left hand side shown
2. License plate bracket

Carefully raise the license plate bracket to gain access to the locknut.

Counter-hold the locknut to prevent it from turning and remove the license plate light fastener. Collect the locknut.

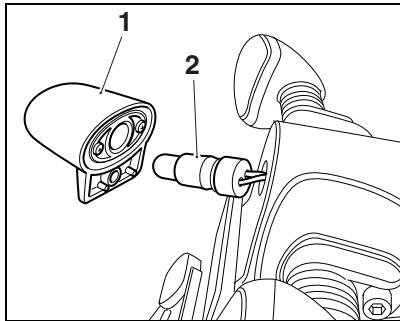
Detach the light from the bracket. It is not necessary to disconnect the electrical connectors.

## Maintenance and Adjustment

### Caution

To avoid cable damage, do not pull the bulb holder using the cables. Pull only on the bulb holder.

Carefully remove the bulb holder from the back of the light unit. Remove the bulb.



1. License plate light
2. Bulb holder

Installation is the reverse of the removal procedure, noting the following:

Tighten the lamp fastener to **17 lbf in (2 Nm)**.

Tighten the rear indicator fasteners to **26 lbf in (3 Nm)**.

Reconnect the battery, positive (red) lead first.

Reinstall the front panel and tighten the side fasteners to **26 lbf in (3 Nm)**.

### Cleaning

Frequent, regular cleaning is an essential part of the maintenance of your motorcycle. If regularly cleaned, the appearance will be preserved for many years. Cleaning with cold water containing an automotive cleaner is essential at all times but particularly so after exposure to sea breezes, sea water, dusty or muddy roads and in winter when roads are treated for ice and snow. Do not use household detergent, as the use of such products will lead to premature corrosion.

Although, under the terms of your motorcycle warranty, cover is provided against the corrosion of certain items, the owner is expected to observe this reasonable advice which will safeguard against corrosion and enhance the appearance of the motorcycle.

### Preparation for Washing

Before washing, precautions must be taken to keep water off the following places:

Rear opening of the exhausts: Cover with a plastic bag secured with rubber bands.

Clutch and brake levers, switch housings on the handlebar: Cover with plastic bags.

Ignition switch and steering lock: Cover the keyhole with tape.

Remove any items of jewellery such as rings, watches, zips or belt buckles, which may scratch or otherwise damage painted or polished surfaces.

## Maintenance and Adjustment

Use separate cleaning sponges or cleaning cloths for washing painted/polished surfaces and chassis areas. Chassis areas (such as wheels and under mudguards) will be exposed to more abrasive road grime and dust, which may then scratch painted or polished surfaces, if the same sponge or cleaning cloths are used.

### Where to be Careful

Avoid spraying water with any great force near the following places:

- Instruments;
- Brake cylinders and brake calipers;
- Under the fuel tank;
- Steering head bearings;
- Air intake ducts.

#### Caution

Do not spray any water at all under the fuel tank. Any water sprayed around the air intake ducts (located under the front of the fuel tank) could enter the airbox and engine, causing damage to both items.

#### Caution

Use of high-pressure spray washers is not recommended. When using pressure washers, water may be forced into bearings and other components causing premature wear from corrosion and loss of lubrication.

### Note:

- Use of soaps that are highly alkaline will leave a residue on painted surfaces, and may also cause water spotting. Always use a low alkaline soap to aid the cleaning process.

### After Washing

Remove the plastic bags and tape, and clear the air intakes.

Lubricate the pivots, bolts and nuts.

Test the brakes before motorcycle operation.

Start the engine and run it for 5 minutes.

Ensure adequate ventilation for the exhaust fumes.

Use a dry cloth to absorb water residue. Do not allow water to stand on the machine as this will lead to corrosion.

#### Warning

Never wax or lubricate the brake discs. Loss of braking power and an accident could result. Clean the disc with a proprietary brand of oil-free brake disc cleaner.

## Maintenance and Adjustment

### Seat Care

#### Caution

Use of chemicals or high-pressure spray washers is not recommended for cleaning the seat. Using chemicals or pressure washers may damage the seat cover.

To help maintain its appearance, clean the seat using a sponge or cleaning cloth with soap and water.

### Unpainted Aluminum Items

Items such as brake and clutch levers, wheels, engine covers, top and bottom yokes on some models must be correctly cleaned to preserve their appearance. Please contact your dealer if you are unsure which components on your motorcycle are unpainted aluminum parts.

Use a proprietary brand of aluminum cleaner which does not contain abrasive or caustic elements.

Clean aluminum items regularly, in particular after use in inclement weather, where the components must be hand washed and dried each time the machine is used.

Warranty claims due to inadequate maintenance will not be allowed.

### Cleaning of the Exhaust System

All parts of the exhaust system of your motorcycle must be cleaned regularly to avoid a deterioration of its appearance. These instructions can be applied to chrome, brushed stainless steel and carbon fiber components alike.

#### Note:

- The exhaust system must be cool before washing to prevent water spotting.

#### Washing

Prepare a mixture of cold water and mild automotive cleaner. Do not use a highly alkaline soap as commonly found at commercial car washes because it leaves a residue.

Wash the exhaust system with a soft cloth. Do not use an abrasive scouring pad or steel wool. They will damage the finish.

Rinse the exhaust system thoroughly.

Ensure no soap or water enters the mufflers.

#### Drying

Dry the exhaust system as far as possible with a soft cloth. Do not run the engine to dry the system or spotting will occur.

#### Protecting

When the exhaust system is dry, rub 'Motorex 645 Clean and Protect' into the surface.

#### Caution

The use of products containing silicone will cause discolouration of the chrome and must not be used. Similarly, the use of abrasive cleaners and polishes will damage the system and must not be used.

It is recommended that regular protection be applied to the system as this will both protect and enhance the system's appearance.

## **Maintenance and Adjustment**

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## Storage

### STORAGE

#### Preparation for Storage

Clean and dry the entire vehicle thoroughly. Fill the fuel tank with the correct grade of unleaded fuel and add a fuel stabilizer (if available), following the fuel stabilizer manufacturer's instructions.

#### Warning

Gasoline is extremely flammable and can be explosive under certain conditions. Turn the ignition switch off. Do not smoke. Make sure the area is well ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light.

Remove the spark plug from each cylinder and put several drops 0.17 fl oz (5 cc) of engine oil into each cylinder. Cover the spark plug holes with a piece of cloth or rag. With the engine stop switch in the RUN position, push the starter button for a few seconds to coat the cylinder walls with oil. Install the spark plugs, tightening to **9 lbf ft (12 Nm)**.

Change the engine oil and filter (see page 79).

Check and if necessary correct the tire pressures (see page 103).

Set the motorcycle on a stand so that both wheels are raised off the ground. (If this cannot be done, put boards under the front and rear wheels to keep dampness away from the tires.)

Spray rust inhibiting oil (there are a host of products on the market and your dealer will be able to offer you local advice) on all

unpainted metal surfaces to prevent rusting. Prevent oil from getting on rubber parts, brake discs or in the brake calipers.

Lubricate and if necessary adjust the drive chain (see page 90).

Make sure the cooling system is filled with a 50% mixture of coolant (noting that HD4X Hybrid OAT coolant, as supplied by Triumph, is pre-mixed and requires no dilution) and distilled water solution (see page 82).

Remove the battery, and store it where it will not be exposed to direct sunlight, moisture, or freezing temperatures. During storage it should be given a slow charge (one ampere or less) about once every two weeks (see page 107).

Store the motorcycle in a cool, dry area, away from sunlight, and with a minimum daily temperature variation.

Put a suitable porous cover over the motorcycle to keep dust and dirt from collecting on it. Avoid using plastic or similar non-breathable, coated materials that restrict air flow and allow heat and moisture to accumulate.

## Storage

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### Preparation after Storage

Install the battery (if removed) (see page 107).

If the motorcycle has been stored for more than four months, change the engine oil (see page 79).

Check all the points listed in the Daily Safety Checks section.

Before starting the engine, remove the spark plugs from each cylinder.

Put the side stand down.

Crank the engine on the starter motor several times until the oil pressure light goes out.

Replace the spark plugs, tightening to **9 lbf ft (12 Nm)**, and start the engine.

Check and if necessary correct the tire pressures (see page 103).

Clean the entire vehicle thoroughly.

Check the brakes for correct operation.

Test ride the motorcycle at low speeds.

## Specifications

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### SPECIFICATIONS

#### Dimensions

Overall Length .....	82.6 in (2,100 mm)
Overall Width .....	31.3 in (795 mm)
Overall Height .....	43.7 in (1,110 mm)
Wheelbase .....	56.5 in (1,435 mm)
Seat Height .....	32.5 in (825 mm)

#### Weights

Wet Weight .....	472 lb (214 kg)
Maximum Payload .....	430 lb (195 kg)

#### Engine

Type .....	In-line 3 cyl.
Displacement .....	64.1 cu in (1050 cc)
Bore x Stroke .....	3.11 x 2.81 in (79 x 71.4 mm)
Compression Ratio .....	12.0:1
Cylinder Numbering .....	Left to Right
Cylinder Sequence Number .....	1 at left
Firing Order .....	1-2-3
Starting System .....	Electric Starter

#### Performance

Maximum Power (DIN 70020) .....	133 bhp (135 PS) at 9,400 rpm
Maximum Torque .....	82 ft.lbf (111 Nm) at 7,750 rpm

## Specifications

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### Lubrication

Lubrication.....	Forced Lubrication (wetsump)
Engine Oil Capacities	
Dry Fill.....	0.92 US gal (3.5 liters)
Oil/Filter Change .....	0.84 US gal (3.2 liters)
Oil Change Only.....	0.80 US gal (3.0 liters)

### Cooling

Coolant Type.....	Triumph HD4X Hybrid OAT coolant
Water/Anti-freeze ratio.....	50/50 (premixed as supplied by Triumph)
Coolant Capacity.....	0.63 US gal (2.4 liters)
Thermostat Opens (nominal).....	185°F (85°C)

### Fuel System

Type.....	Electronic Fuel Injection
Injectors.....	Solenoid Operated
Fuel Pump.....	Submerged Electric
Fuel Pressure (nominal).....	43.5 lb/in <sup>2</sup> (3 bar)

### Fuel

Type.....	89 (R+M)/2
Tank Capacity .....	4.5 US gal (17.5 liters)

## Specifications

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### Ignition

Ignition System .....	Digital Inductive
Electronic Rev Limiter (r/min).....	9,500 (r/min)
Spark Plug.....	NGK CR8EK
Spark Plug Gap.....	Gap 0.028 in (0.7 mm)
Gap Tolerance.....	+0.001/-0.002 in (+0.05/-0.1 mm)

### Transmission

Transmission Type.....	6 Speed, Constant Mesh
Clutch Type.....	Wet, Multi-Plate
Final Drive Chain.....	RK X-Ring
Primary Drive Ratio.....	1.75:1 (60/105)
Gear Ratios:	
Final Drive Ratio .....	2.333:1 (18/43)
1st .....	2.733:1 (15/41)
2nd .....	1.947:1 (19/37)
3rd.....	1.545:1 (22/34)
4th.....	1.292:1 (24/31)
5th.....	1.154:1 (26/30)
6th.....	1.074:1 (27/29)

## Specifications

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### Tires

Tire Pressures (Cold):

Front ..... 34 lb/in<sup>2</sup> (2.35 bar)

Rear ..... 42 lb/in<sup>2</sup> (2.90 bar)

Front Size ..... 120/70 ZR17

Rear Size ..... 190/55 ZR17

Approved tires

Option 1, Front and Rear ..... Metzeler Racetec K3 Interact

Option 2, Front and Rear ..... Bridgestone Battlax BT003 RS

Option 3, Front and Rear ..... Bridgestone Battlax BT016

Option 4, Front and Rear ..... Pirelli Diablo Rosso

Option 5, Front and Rear ..... Michelin Power Pure

Option 6, Front and Rear ..... Michelin Pilot Road 2

### ! Warning

Use the recommended tires ONLY in the combinations given. Do not mix tires from different manufacturers or mix different specification tires from the same manufacturers as this may result in loss of motorcycle control and an accident.

## Specifications

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### Electrical Equipment

Battery.....	12 Volt, 12 Ah
Alternator.....	12 Volt, 35 Amp
Headlight.....	2 x 12 Volt, 60/55 watt H4 halogen
Tail/Brake Light.....	LED
Turn Signal Lights.....	12 Volt, 10 watt

### Frame

Rake.....	23.0°
Trail .....	3.6 in (91 mm)

### Tightening Torques

Oil Filter.....	7 lbf ft (10 Nm)
Oil Drain Plug.....	18 lbf ft (25 Nm)
Spark Plug.....	9 lbf ft (12 Nm)
Rear Wheel Eccentric Clamp Bolt.....	41 lbf ft (55 Nm)

### Fluids and Lubricants

Engine Oil .....	Semi or fully synthetic 10W/40 or 10W/50 motorcycle engine oil which meets specification API SH (or higher) and JASO MA, such as Castrol Power 1 Racing 4T 10W-40 (fully synthetic)
Brake Fluid .....	DOT 4 Brake and Clutch Fluid
Coolant .....	Triumph HD4X Hybrid OAT coolant
Bearings and Pivots.....	Grease to NLGI 2 specification
Drive Chain.....	Chain spray suitable for O-ring chains

## **Specifications**

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