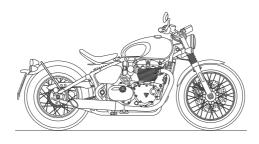
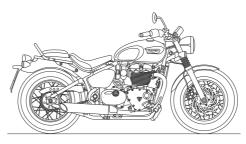


### Owner's Handbook

# Bonneville Bobber, Bonneville Bobber Black and Bonneville Speedmaster





This handbook contains information on the Triumph Bonneville Bobber, Bonneville Bobber Black and Bonneville Speedmaster motorcycles. Always store this Owner's Handbook with the motorcycle and refer to it for information whenever necessary.

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**

### Warnings, Cautions and Notes

Throughout this Owner's Handbook particularly important information is presented in the following form:

## **Marning**

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

## **A** 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.

### Warning Labels



At certain areas of the motorcycle, the symbol (above) 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 page 12 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 authorised Triumph dealer, visit the Triumph web site at 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.

### **Foreword**

### **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 Federal Communications Commission (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.

### **Tyres**

With reference to the Pneumatic Tyres and Tubes for Automotive Vehicles (Quality Control) Order, 2009, Cl. No. 3 (c), it is declared by M/s. Triumph Motorcycles Ltd. that the tyres fitted on this motorcycle meet the requirements of IS 15627: 2005 and comply with the requirements under Central Motor Vehicle Rules (CMVR), 1989.

### Owner's Handbook

## **Marning**

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 motorcycle, before riding, in order to become thoroughly familiar with the correct operation of your motorcycle's controls, its features, capabilities and limitations. Dο not lend motorcycle to others as riding when not familiar with your motorcycle's controls, features, capabilities limitations can lead to an accident

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 the necessary training to ensure safe operation of this motorcycle.

This handbook is available from your local dealer in:

- · English
- · US English
- French
- German
- ItalianDutch
- Spanish
- Portuguese
- Swedish
- Japanese
- Thai

### 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 authorised Triumph dealership has your email address and registers this with us. You will then receive an online customer satisfaction survey invitation to your email address where you can give us this feedback.

Your Triumph Team.

## Safety First

### SAFETY FIRST

### The Motorcycle

## **Warning**

This motorcycle is designed for onroad use only. It is not suitable for offroad use.

Off-road operation could lead to loss of control of the motorcycle resulting in an accident causing injury or loss of life.

## **Marning**

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.

## **Marning**

Bonneville Bobber Black and Bonneville Bobber

This motorcycle is designed for use as a two-wheeled vehicle capable of carrying a rider on his/her own.

Operation of this motorcycle with a passenger is dangerous and could lead to loss of control and an accident.

The total weight of the rider, accessories and luggage must not exceed the maximum load limit of 125 kg (275 lb).

## **Marning**

Bonneville Speedmaster

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, passenger handhold and footrests being fitted).

The total weight of the rider, accessories, luggage and passenger must not exceed the maximum load limit of 210 kg (463 lb).

#### Fuel and Exhaust Fumes

## **A** Warning

PETROL 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 petrol on the engine, exhaust pipes or silencers when refuelling.

If petrol 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 petrol should immediately be removed.

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

## **M**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.

### Helmet and Clothing





When riding the motorcycle, both rider and passenger (on models where carrying a passenger is permitted) must always wear a motorcycle helmet, eye protection, gloves, boots, trousers (close fitting around the knee and ankle) and a brightly coloured jacket.

Brightly coloured 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.

## **Marning**

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 coloured 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.

## Safety First

### **Parking**

## **Marning**

Always switch 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 unauthorised 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.

### Parts and Accessories

## **A** 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 authorised 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

## **Marning**

Consult your authorised 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.

## **M**Warning

Ensure all equipment that is required by law is installed and functioning correctly. The removal or alteration of the motorcycle's lights, silencers, 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.

## **Marning**

If the motorcycle is involved in an accident, collision or fall, it must be taken to an authorised 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.

### Riding

## **Marning**

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.

## **Marning**

All riders must be licenced to operate the motorcycle. Operation of the motorcycle without a licence is illegal and could lead to prosecution.

Operation of the motorcycle without formal training in the correct riding techniques that are necessary to become licenced is dangerous and may lead to loss of motorcycle control and an accident.

## **Marning**

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.

## Safety First

## **M**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.

## **Marning**

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.

### Handlebars and Footrests

## **Marning**

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 their hands from the handlebars, resulting in loss of motorcycle control and an accident.

## **Marning**

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

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

## **Marning**

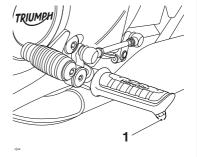
Use of a motorcycle with bank angle indicators worn beyond the maximum limit will allow the motorcycle to be banked to an unsafe angle. Therefore, always replace the bank angle indicator pegs before they are worn to their maximum limit. Banking to an unsafe angle may cause instability, loss of motorcycle control and an accident. Details of the bank angle wear limits can be found in the Maintenance and Adjustment section on page 102.

## **Warning**

The bank angle indicators must not be used as a guide to how far the motorcycle may be safely banked. This depends on many various conditions including, but not limited to, road surface, tyre condition and weather. Banking to an unsafe angle may cause instability, loss of motorcycle control and an accident.

## **Marning**

When banking and the bank angle indicator, attached to the rider's footrest, makes contact with the ground, the motorcycle is nearing its bank angle limit. A further increase of the banking angle is unsafe. Banking to an unsafe angle may cause instability, loss of motorcycle control and an accident.



1. Bank angle indicator

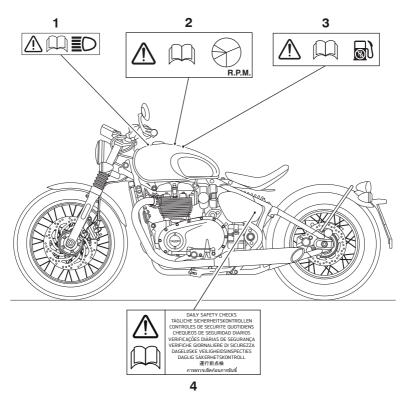
## Warning Labels

### WARNING LABELS

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

For illustration purposes, the Bonneville Bobber motorcycle is shown.

### Warning Label Locations



- 1. Headlight (page 113)
- 2. Running-In (page 56)

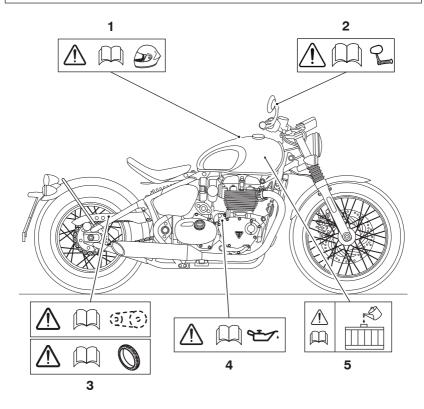
- 3. Unleaded Fuel (page 47)
  - Daily Safety Checks (page 57)

### Warning Label Locations - Continued

## **A** Caution

All warning labels and decals, with the exception of the Running-in label, are fitted to the motorcycle using a strong adhesive. In some cases, labels are installed prior to an application of paint lacquer.

Do not attempt to remove the warning labels as this will cause damage to the paintwork or body work.

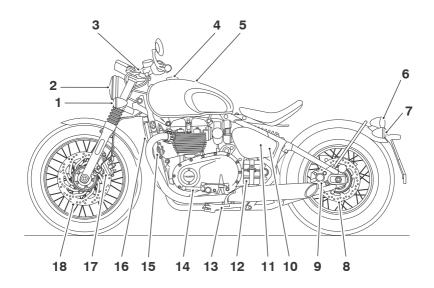


- 1. Helmet (page 7)
- 2. Mirrors (page 96)
- 3. Drive Chain (page 88) and Tyres (page 102)
- 4. Engine Oil (page 79)
- 5. Coolant (page 83)

### Parts Identification

### PARTS IDENTIFICATION

#### Bonneville Bobber Shown

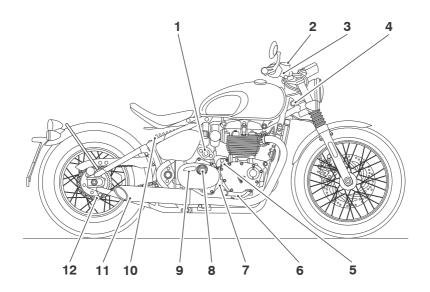


- 1. Front direction indicator
- 2. Headlight
- 3. Clutch lever
- 4. Fuel tank filler cap
- 5. Fuel tank
- 6. Brake/rear light
- 7. Rear direction indicator
- 8. Rear brake disc
- 9. Rear brake caliper
- 10. Fuse box (behind side panel)

- 11. Adjustment tool and inspection cap tool (behind side panel)
- 12. Battery (behind cover panel)
- 13. Side stand
- 14. Gear change pedal
- 15. Horn
- 16. Radiator
- 17. Front brake caliper
- 18. Front brake disc

### Parts Identification - Continued

### Bonneville Bobber Shown



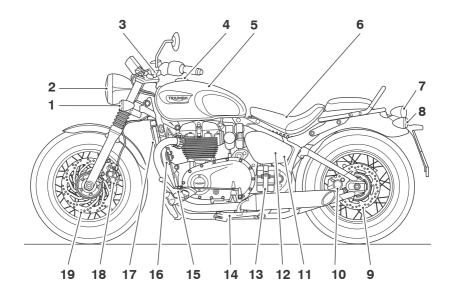
- 1. Ignition switch
- 2. Front brake fluid reservoir
- 3. Front brake lever
- 4. Steering lock
- 5. Oil filler plug
- 6. Rear brake pedal
- 7. Oil level sight glass

- 8. Rear brake fluid reservoir (behind cap)
- Coolant expansion tank cap (behind sprocket cover)
- 10. Rear suspension unit
- 11. Silencer
- 12. Final drive chain

### Parts Identification

### PARTS IDENTIFICATION

### Bonneville Speedmaster

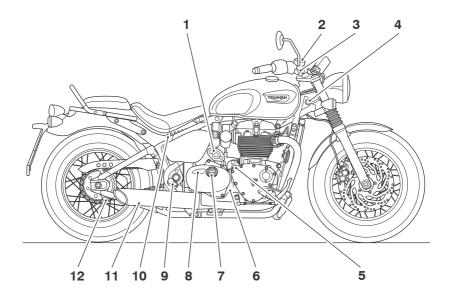


- 1. Front direction indicator
- 2. Headlight
- Clutch lever
- 4. Fuel tank filler cap
- 5. Fuel tank
- C-spanner and extension handle (attached to the underside of the rider's seat)
- 7. Brake/rear light
- 8. Rear direction indicator
- 9. Rear brake disc
- 10. Rear brake caliper

- 11. Fuse box (behind side panel)
- Adjustment tool and inspection cap tool (behind side panel)
- 13. Battery (behind cover panel)
- 14. Side stand
- 15. Gear change pedal
- 16. Horn
- 17. Radiator
- 18. Front brake caliper
- 19. Front brake disc

### Parts Identification - Continued

### Bonneville Speedmaster

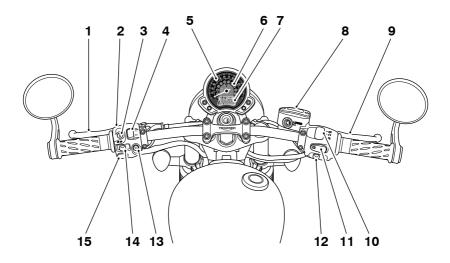


- 1. Ignition switch
- 2. Front brake fluid reservoir
- 3. Front brake lever
- 4. Steering lock
- Oil filler plug
- 6. Oil level sight glass
- 7. Rear brake fluid reservoir (behind cap)
- Coolant expansion tank cap (behind sprocket cover)
- 9. Rear brake pedal
- 10. Rear suspension unit
- 11. Silencer
- 12. Final drive chain

### Rider View Parts Identification

### RIDER VIEW PARTS IDENTIFICATION

#### Bonneville Bobber Shown



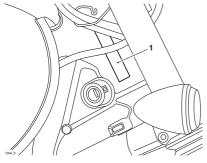
- 1. Clutch lever
- 2. Headlight dip switch
- SCROLL button
- Daytime Running Lights (DRL) switch (if fitted)
- 5. Speedometer
- 6. Warning lights
- 7. Odometer/Information display screen
- 8. Front brake fluid reservoir

- 9. Front brake lever
- 10. Engine start/stop switch
- 11. MODE button
- 12. Hazard switch
- 13. Cruise control button (if fitted)
- 14. Direction indicator switch
- 15. Horn button

### **SERIAL NUMBERS**

### Vehicle Identification Number (VIN)

The vehicle identification number is stamped into the steering head area of the frame.



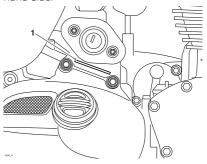
#### 1. VIN

Record the vehicle identification number in the space provided below.



### **Engine Serial Number**

The engine serial number is stamped on the upper engine crankcase, towards the rear, and is visible from the right hand side.



### 1. Engine serial number

Record the engine serial number in the space provided below.

## **GENERAL INFORMATION**

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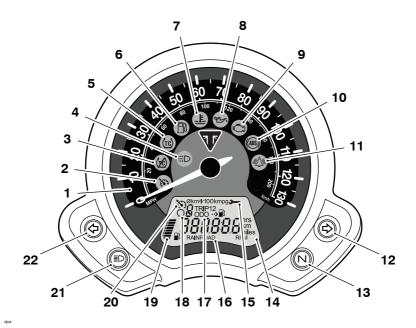
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### Instrument Panel Layout

#### Note:

· For illustration purposes, the Bonneville Bobber is shown.



- 1. Speedometer
- 2. Cruise control indicator light (if fitted)
- 3. Traction Control (TC) disabled warning light
- Daytime Running Lights (DRL) indicator light (if fitted)
- 5. Traction Control (TC) indicator light
- 6. Low fuel level indicator light
- 7. High coolant temperature warning light
- 8. Low oil pressure warning light
- 9. Engine management Malfunction Indicator Light (MIL)
- ABS (Anti-Lock Brake System) warning light

- 11. Immobiliser status indicator light
- 12. Right hand direction indicator light
- 13. Neutral indicator light
- 14. Information display screen
- 15. Service interval indicator
- 16. Rider modes
- 17. Odometer/Trip meter/Clock
- 18. Gear position indicator
- 19. Fuel gauge
- 20. Cruise control indicator (if fitted)
- 21. High beam indicator light
- 22. Left hand direction indicator light

### Instrument Panel Adjustment

# Bonneville Bobber and Bonneville Bobber Black Only

## **Marning**

Operation of the motorcycle with an incorrectly adjusted or loose instrument panel is dangerous.

An incorrectly adjusted or loose instrument panel may result in loss of instrument vision when riding and may cause a distraction leading to loss of control of the motorcycle and an accident.

Always adjust the instrument panel to provide sufficient vision of the instruments and make sure that it is securely fixed in place before riding the motorcycle.

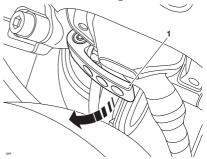
## **Marning**

Never attempt to clean or adjust the instrument panel while riding the motorcycle. Removal of the rider's hands from the handlebars while riding the motorcycle will diminish the ability of the rider to maintain control of the motorcycle.

Attempting to clean or adjust the instrument panel while riding the motorcycle may result in loss of control of the motorcycle and an accident.

Only attempt to clean or adjust the instrument panel while stationary.

The instrument panel can be adjusted to allow for improved visibility of the instruments when riding.



1. Adjustment lever

To adjust the instrument panel:

- Pull the adjustment lever located underneath the instrument panel to disengage the instrument panel from its locked position.
- Move the instrument panel into the correct position to view the display.
- Hold the instrument panel in place and push the lever back to engage the new locked position.

## **Warning Lights**

### Engine Management System Malfunction Indicator Light (MIL)

The Malfunction Indicator Light (MIL) 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 MIL 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.

## **Marning**

Reduce speed and do not continue to ride for longer than is necessary with the MIL 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 authorised Triumph dealer as soon as possible to have the fault checked and rectified.

#### Note:

 If the MIL flashes when the ignition is switched ON contact an authorised Triumph dealer as soon as possible to have the situation rectified. In these circumstances the engine will not start.

### Low Oil Pressure Warning Light



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

## **A** 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.

#### Note:

 The low oil pressure warning light 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 will illuminate.

## **A** 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

### Immobiliser/Alarm Indicator Light

This Triumph motorcycle is fitted with an engine immobiliser which is activated when the ignition switch is turned to the OFF position.

#### Without Alarm Fitted

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

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

#### With Alarm Fitted

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

# ABS (Anti-Lock Brake System) Warning Light

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

## **Marning**

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 authorised 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 motorcycle control and an accident.

### Traction Control (TC) Indicator Light

The TC indicator light is used to indicate that the traction control system is active and is working to limit rear wheel slip during periods of hard acceleration or under wet or slippery road conditions.

## **Marning**

If the traction control is not functioning, care must be taken when accelerating and cornering on wet/slippery road surfaces to avoid rear wheel spin. Do not continue to ride for longer than is necessary with the Engine Management System Malfunction Indicator Light (MIL) and traction control warning lights illuminated. Contact an authorised Triumph dealer as soon as possible to have the fault checked.

## **Warning** Continued

Hard acceleration and cornering in this situation may cause the rear wheel to spin resulting in loss of motorcycle control and an accident

### TC Indicator Light Operation:

#### TC Switched On:

- Under normal riding conditions the indicator light will remain off.
- The indicator light will flash rapidly when the traction control system is working to limit rear wheel slip during periods of hard acceleration or under wet or slippery road conditions.

#### TC Switched Off:

The indicator light will not illuminate. Instead the TC disabled warning light will be illuminated (see page **27**).

#### Note:

 Traction control will not function if there is a malfunction with the ABS system. The warning lights for the ABS, traction control and the MIL will be illuminated

# Traction Control (TC) Disabled Warning Light

The TC disabled warning light should not illuminate unless traction control is switched off or there is a malfunction

If the warning light becomes illuminated at any other time while riding, it indicates that the traction control system has a malfunction that requires investigation.

### Low Fuel Indicator Light

The low fuel indicator light will illuminate when there is the following amount of fuel remaining in the tank:

- 2.0 litres Bonneville Bobber and Bonneville Bobber Black
- 3.0 litres Bonneville Speedmaster.

### 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.

#### **Direction Indicators**



When the indicator switch is turned to the left or right, the indicator warning light will flash on and off at the same speed as the direction indicators.

# Daytime Running Lights (DRL) (if fitted)



When the ignition is switched ON and the daytime running lights switch is set to DAYTIME RUNNING LIGHTS, the daytime running lights warning light will illuminate.

The daytime running lights and low beam headlights are operated manually using a switch on the left hand switch housing, see page 43.

## **Warning**

Do not ride for longer than necessary in poor ambient light conditions with the Daytime Running Lights (DRL) in use.

Riding with the daytime running lights when dark, in tunnels or where poor ambient light is apparent may reduce the riders vision or dazzle other road users.

Dazzling other road users or reduced vision in low ambient light levels may result in loss of motorcycle control and an accident.

#### Note:

- During daylight hours the daytime running lights improve the motorcycles visibility to other road users.
- Low beam headlights must be used in any other conditions unless the road conditions allow for high beam headlights to be used.

# Cruise Control Indicator Light (if fitted)



The cruise control can only be activated when the motorcycle is travelling at a speed between 19 to 100 mph (30 to 160 km/h) and is in 3rd gear or higher. When activated, the cruise control indicator light in the instrument panel will be illuminated.

## **Marning**

Cruise control must only be used where riding safely at a steady speed.

Cruise control must not be used when riding in heavy traffic, on slippery roads, or roads with sharp or blind bends.

Using cruise control in these conditions may result in loss of motorcycle control and an accident.

#### Instruments

### Speedometer and Odometer

The speedometer indicates the road speed of the motorcycle.

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

#### **Tachometer**

## **A** Caution

Never allow the engine speed above the maximum recommended engine speed (7,000 rpm) as severe engine damage may result.

The tachometer shows the engine speed in revolutions per minute - rpm (r/min).



1. Engine speed shown in rpm

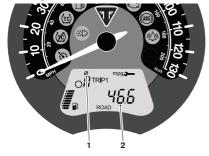
### **Gear Position Display**



- 1. Gear position symbol
- Gear position display (neutral position shown)

The gear position display indicates which gear (1-6) has been engaged. When the transmission is in neutral (no gear selected), the display screen will show  $\bf n$ .

### Average Fuel Consumption



- 1. Average symbol
- 2. Average fuel consumption

This is an indication of the average fuel consumption. After being reset the display will show dashes until 0.1 miles/km has been covered.

#### Note:

 After refuelling, the average consumption information will be updated only while riding the motorcycle. Depending on the riding style, updating could take up to five minutes.

### **Fuel Gauge**



- 1. Low fuel indicator light
- 2. 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 eight bars are displayed and when empty, no bars are displayed. Other gauge markings indicate intermediate fuel levels between full and empty.

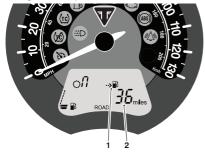
The low fuel warning light will illuminate when there is the following amount of fuel left in the tank:

- 2.0 litres Bonneville Bobber and Bonneville Bobber Black
- 3.0 litres Bonneville Speedmaster.

#### Note:

 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.

### Range to Empty



## Range to empty indicator Estimated distance remaining

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

When less than a mile can be travelled on the remaining fuel, then '---' is shown in the display.

#### Note:

 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.

#### Trip Meter

## **A** Warning

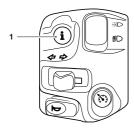
Do not attempt to switch between the odometer and trip meter display modes or reset the trip meter with the motorcycle in motion as this may lead to loss of motorcycle control and an accident.



#### Trip meter display (Trip 1 selected)

There are two trip meters. Either trip meter shows the distance that the motorcycle has travelled since the meter on display was last reset to zero.

To switch between trip meters, press and release the SCROLL button, located on the left hand handlebar switch housing, until the desired trip meter is shown.



#### 1. SCROLL button

### Trip Meter Reset

To reset either of the trip meters, select and display the trip meter to be zeroed. Then press and hold the SCROLL button for one second. After more than one second, the trip meter on display will reset to zero.

### Clock

To access the clock, press and release the SCROLL button, located on the left hand handlebar switch housing, until the clock is shown.



#### 1. Clock

### Clock Adjustment

## **Marning**

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:

- · Select the clock display.
- Press and hold the SCROLL button for one second, the clock's hour display will start to flash. Release the SCROLL button.

### To reset the hour display:

- Make sure the hour display is still flashing then press and release the SCROLL button to change the setting. Each individual button press will change the setting by one digit.
- When the correct hour display is shown, press and hold the SCROLL button for one second. The hours display is set and the minutes display will begin to flash. The minutes display is adjusted in the same way as for the hour display.
- Once both hours and minutes are correctly set, press the SCROLL button for one second and the display will cease to flash.

#### Service Interval



## Remaining distance Service symbol

When the ignition is switched on and the distance to the next service is 61 miles (100 km) or less, the display will flash the service symbol for five seconds after ignition is switched on.

When the remaining distance is 0 miles (0 km) or overdue, the service symbol will remain on until the service has been carried out and the system has been reset by your authorised Triumph dealer.

### Riding Modes

The riding mode system allows adjustment of the throttle response.

Riding modes are selected using the MODE button on the right hand handlebar switch housing.



#### 1. MODE button

Press and release the MODE button to select one of the following riding modes.

ROAD	Standard throttle response.
	Reduced throttle response when compared to the ROAD setting, for wet or slippery conditions.

Riding modes can be selected when the motorcycle is stationary or moving.

### Selecting a Riding Mode – with the Motorcycle Stationary

Press and release the MODE button on the instrument housing until the desired riding mode is flashing in the display.

The selected riding mode is automatically activated one second after the MODE button is pressed, if the following conditions are met:

### With the Engine Off

- · The ignition is switched ON.
- The engine stop switch is in the RUN position.

### With the Engine Running

• The transmission is in neutral or the clutch is pulled in.

# Selecting a Riding Mode – when Riding the Motorcycle

## **A** Warning

The selection of riding modes whilst the motorcycle is in motion requires the rider to allow the motorcycle to coast (motorcycle moving, engine running, throttle closed, clutch lever pulled in and no brakes applied) for a brief period of time.

Riding mode selection whilst the motorcycle is in motion should only be attempted:

- At low speed
- In traffic free areas
- On straight and level roads or surfaces
- In good road and weather conditions
- Where it is safe to allow the motorcycle to briefly coast.

## **Warning** Continued

Riding mode selection whilst the motorcycle is in motion MUST NOT be attempted:

- At high speeds
- Whilst riding in traffic
- During cornering or on winding roads or surfaces
- On steeply inclined roads or surfaces
- In poor road/weather conditions
- Where it is unsafe to allow the motorcycle to coast.

Failure to observe this important warning will lead to loss of motorcycle control and an accident.

## **Marning**

After selecting a riding mode, operate the motorcycle in an area free from traffic to gain familiarity with the new settings.

Do not loan your motorcycle to anyone as they may change the riding mode setting from the one you are familiar with, causing loss of motorcycle control and an accident.

Press and release the MODE button on the left hand handlebar switch housing until the desired riding mode is flashing in the display. Within 30 seconds of pressing the MODE button the rider must carry out the following simultaneously:

- · Close the throttle.
- · Pull the clutch in.
- Make sure that the brakes are not engaged (allow the motorcycle to coast).

#### Note:

 The riding mode will default to ROAD when the ignition is switched ON.

In the event of an incomplete riding mode change:

- Safely bring the motorcycle to a stop.
- · Select neutral gear.
- Turn the ignition OFF and then back ON again.
- Select the desired riding mode.
- Restart the engine and continue riding.

## **Marning**

Do not stop the engine using the ignition switch or engine start/stop switch whilst the motorcycle is moving.

Always bring the motorcycle to a stop safely and engage neutral gear prior to stopping the engine.

Stopping the engine by turning off the ignition or engine start/stop switch whilst the motorcycle is moving can lock the rear wheel causing loss of motorcycle control and an accident.

## **A** Caution

Do not stop the engine using the ignition switch or engine start/stop switch whilst the motorcycle is moving.

Stopping the engine by turning off the ignition or engine start/stop switch when the motorcycle is moving may cause damage to motorcycle components.

### **Traction Control (TC)**

## **Marning**

Traction control is not a substitute for riding appropriately for the prevailing road and weather conditions. The traction control cannot prevent loss of traction due to:

Excessive speed when entering turns

Accelerating at a sharp lean angle

Braking.

Traction control cannot prevent the front wheel from slipping.

Failure to observe any of the above may result in loss of motorcycle control and an accident.

Traction control helps to maintain traction when accelerating on wet/ slippery road surfaces. If sensors detect that the rear wheel is losing traction (slipping), the traction control system will engage and alter the engine power until traction to the rear wheel has been restored. The traction control warning light will flash while it is engaged and the rider may notice a change to the sound of the engine.

#### Note:

 Traction control will not function if there is a malfunction with the ABS system. The warning lights for the ABS, traction control and the MIL will be illuminated.

#### **Traction Control Settings**

# **Marning**

If the traction control is disabled, the motorcycle will handle as normal but without traction control. In this situation accelerating too hard on wet/ slippery road surfaces may cause the rear wheel to slip, and may result in loss of motorcycle control and an accident.

The traction control can be set to one of the following conditions:

	Optimal traction control setting for road use, allows minimal rear wheel slip.
OFF	Traction control is turned OFF. The TC disabled warning light will be illuminated (see page <b>27</b> ).

Traction control defaults to ON after the ignition has been switched OFF and then switched ON again.

#### To Disable the Traction Control

To disable the traction control setting:

- Make sure the motorcycle is stationary and in neutral.
- Turn the ignition to the ON position and put the engine start/stop switch in the RUN position.
- Press and release the SCROLL button on the left hand handlebar switch housing until 'ttcOn' is shown in the display.
- Press and hold the SCROLL button for more than one second to change between traction control on and traction control off.



1. Traction control off display

### **Ignition Switch**

# **A** Warning

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

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



- 1. Ignition switch
- 2. OFF position
- 3. ON position
- 4. PARK position

#### Engine Immobiliser

The ignition switch housing acts as the antenna for the engine immobiliser. When the ignition switch is turned to the OFF or PARK position and the ignition key is removed, the engine immobiliser is on. The engine immobiliser is turned off when the ignition key is in the ignition switch and it is turned to the ON position.

#### Switch Location

The ignition switch is located below the rear edge of the fuel tank, on the right hand side of the motorcycle.

#### Switch Operation

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

To turn the switch from OFF to ON, insert the key and turn the key clockwise to the ON position.

To turn the switch from ON to PARK, push the key barrel further into the lock and turn clockwise to the PARK position. Use the PARK position only when temporarily leaving the motorcycle in a situation where the tail, licence and position lights must remain on.

To turn the key back to OFF, turn the key anti-clockwise.

### **Ignition Key**

# **Marning**

Additional keys, key rings/chains or items attached to the ignition key may interfere with riding, leading to loss of motorcycle control and an accident.

Remove all additional keys, key rings/ chains and items from the ignition key before riding the motorcycle.

### **A** Caution

Additional keys, key rings/chains or items attached to the ignition key may cause damage to the motorcycle's painted or polished components.

Remove all additional keys, key rings/ chains and items from the ignition key before riding the motorcycle.

# **A** Caution

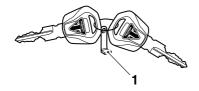
Do not store the spare key with the motorcycle as this will reduce all aspects of security.

The ignition key operates the ignition switch and the steering lock.

When the motorcycle is delivered from the factory, two ignition 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 ignition keys to turn off the engine immobiliser. To make sure the immobiliser functions correctly, always have only one of the ignition keys near the ignition switch. Having two ignition keys near the switch may interrupt the signal between the transponder and the engine immobiliser. In this situation the engine immobiliser will remain active until one of the ignition keys is removed.

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



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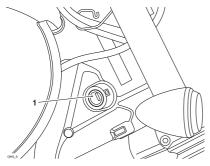
Key number tag

#### Steering Lock

# **Marning**

Always disengage the steering lock before riding as, with the steering lock engaged, it will not be possible to turn the handlebars or steer the motorcycle.

Riding without motorcycle steering control will lead to loss of control and an accident.



#### 1. Steering lock

This is a two position, key operated steering lock.

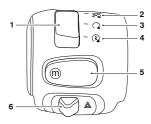
To engage the steering lock:

- Insert the key.
- Turn the handlebars fully left before turning the key clockwise.
- Remove the key.

To disengage the steering lock:

- Insert the key and at the same time turn the handlebars slightly to relieve any weight on the lock.
- Turn the key anticlockwise.
- · Remove the key.

### Right Handlebar Switches



- Engine start/stop switch
- 2. STOP position
- 3. RUN position
- 4. START position
- 5. MODE button
- 6. Hazard warning light switch

#### STOP Position

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

### **A** 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.

#### 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.

#### **RUN Position**

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

#### **START Position**

The START position operates the electric starter. For the starter to operate, the clutch lever must be pulled to the handlehar

#### 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.

#### MODE Button

The MODE button allows throttle response adjustment. Press and release the MODE button to select one of the different rider modes available (see page **34** for more information).

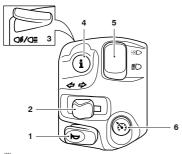
#### Hazard Warning Lights Switch

To turn the hazard warning lights on or off, push the hazard warning light switch to the left or right.

The ignition must be switched ON for the hazard warning lights to function.

The hazard warning lights will remain on if the ignition is switched OFF, until the hazard warning light switch is switched off again.

#### Left Handlebar Switches



- 1. Horn button
- 2. Direction indicator switch
- 3. High beam button
- 4. SCROLL button
- 5. Daytime Running Lights (DRL) (if fitted)
- 6. Cruise control button (if fitted)

#### **SCROLL Button**

The SCROLL button is used to operate the following functions of the instruments:

- Odometer functions (see page 31)
- Trip reset (see page 31)
- Clock reset (see page 32)
- Traction control functions (see page 36).

#### High Beam Button

When the high beam button is pressed the high beam will be switched on. Each press of the button will swap between dip and high beam.

#### Note:

- A lighting on/off switch is not fitted to this model. The position light, rear light and licence plate light all function automatically when the ignition is turned to the ON position.
- The headlight will function when the ignition switch is turned to the ON position. The headlight will go off while pressing the starter button until the engine starts.

#### **Direction Indicator Switch**

When the direction indicator switch is pushed to the left or right, the corresponding direction indicators will flash on and off. The direction indicator switch will always return to the central position.

The indicators can only be cancelled manually. To manually turn off the indicators, press and release the indicator switch in the central position.

#### Horn Button

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

#### Cruise Control Button (if fitted)

When the cruise control button is pressed in, the cruise control is on. The button remains in until it is pressed again to turn off the cruise control.

#### Daytime Running Lights (DRL) Switch (if fitted)



When the ignition is switched ON and the daytime running lights switch is set to DAYTIME RUNNING LIGHTS, the daytime running lights warning light will illuminate.

The daytime running lights and low beam headlights are operated manually using a switch on the left hand switch housing (if fitted).

# **Warning**

Do not ride for longer than necessary in poor ambient light conditions with the Daytime Running Lights (DRL) in use.

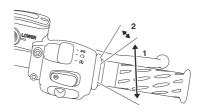
Riding with the daytime running lights when dark, in tunnels or where poor ambient light is apparent may reduce the riders vision or dazzle other road users.

Dazzling other road users or reduced vision in low ambient light levels may result in loss of motorcycle control and an accident

#### Note:

- During daylight hours the daytime running lights improve the motorcycles visibility to other road users.
- Low beam headlights must be used in any other conditions unless the road conditions allow for high beam headlights to be used.

#### **Throttle Control**



#### 1. Throttle open position

#### 2. Throttle closed position

All models have an electronic throttle twist grip to open and close the throttles via the engine Electronic Control Module (ECM). There are no direct-acting cables in the system.

The throttle grip has a resistive feel to it as it is rolled rearwards to open the throttles. When the grip is released it will return to the throttle closed position by its internal return spring and the throttles will close.

There are no user adjustments for the throttle control.

If there is a malfunction with the throttle control the Malfunction Indicator Light (MIL) becomes illuminated and one of the following engine conditions may occur:

- MIL illuminated, restricted engine RPM and throttle movement
- MIL illuminated, limp-home mode with the engine at a fast idle condition only
- MIL illuminated, engine will not start.
   For all of the conditions mentioned contact an authorised Triumph dealer as soon as possible to have the fault checked and rectified.

### Cruise Control (if fitted)

### **A** Warning

Cruise control must only be used where you can drive safely at a steady speed.

Cruise control should not be used when riding in heavy traffic, on roads with sharp/blind bends or when they are slippery.

Using cruise control in heavy traffic, on roads with sharp/blind bends or when they are slippery, may result in loss of motorcycle control and an accident.

### **Marning**

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 speed increases.

Always reduce speed in consideration of weather and traffic conditions.

# **Marning**

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 behaviour in all conditions.

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

The cruise control button is located on the left hand switch housing and can be operated with minimum movement when riding.



#### 1. Cruise control button

Cruise control can be switched on or off at any time but it can not be activated until all the conditions described on page **45** have been met.

#### **Activating Cruise Control**

The following conditions must be met to activate cruise control:

- The motorcycle must be travelling at a speed between 19 to 100 mph (30 to 160 km/h).
- The motorcycle must be in 3 <sup>rd</sup> gear or higher.

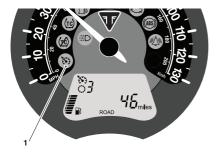
To activate cruise control:

 Press the cruise control button to turn the cruise control system on.
 The cruise control symbol will be shown in the display screen.



1. Cruise control symbol

 When the desired cruising speed is achieved, press the cruise control button again to activate the cruise control. The cruise control light in the tachometer will illuminate indicating that the cruise control is active



#### 1. Cruise control light

#### **Deactivating Cruise Control**

The cruise control can be deactivated by one of the following methods:

- Roll the throttle twist grip fully forward.
- Pull the clutch lever
- · Operate the front or rear brake.
- Increase speed by using the throttle for more than 60 seconds.

Upon deactivation, the cruise control light will go out in the tachometer.

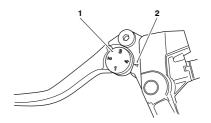
### Brake and Clutch Lever Adjusters

### **Marning**

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 motorcycle control and an accident.



- 1. Adjuster wheel, clutch lever shown
- 2. Arrow mark

An adjuster is fitted to both the front brake and clutch levers. The adjusters allow the distance from the handlebar to the lever to be changed to one of five positions for the front brake lever or four positions for the clutch lever, to suit the span of the operator's hands.

To adjust the lever, push the lever forward and turn the adjuster wheel to align one of the numbered positions with the arrow mark on the lever holder. The distance from the handlebar grip to the released lever is shortest when set to number four/five, and longest when

set to number one

#### **Fuel**



#### **Fuel Grade**

Your Triumph engine is designed to use unleaded fuel and will give optimum performance if the correct grade of fuel is used. Always use unleaded fuel with a minimum octane rating of 91 RON.

In certain circumstances engine calibration may be required. Always refer to your authorised Triumph dealer.

### **A** Caution

The motorcycle can be permanently damaged if it is allowed to operate with the incorrect grade of fuel or incorrect engine calibration.

Always make sure the fuel used is of the correct grade and quality.

Damage caused by using the incorrect fuel or engine calibration is not considered a manufacturing defect and will not be covered under warranty.

### **A** Caution

The exhaust system for this motorcycle is fitted with a catalytic converter to help reduce exhaust emission levels.

Use of leaded fuel will damage the catalytic converter. In addition, 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 make sure you have adequate fuel for your journey.

#### Note:

 The use of leaded fuel is illegal in some countries, states or territories.

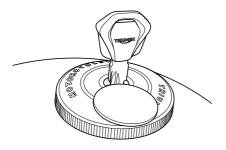
#### Refuelling

# **Warning**

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

- Petrol (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.
- Because petrol (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.

#### Fuel Tank Cap



#### 1. Fuel tank cap

To open the fuel tank cap:

- Slide the cover to the side to show the key lock.
- Insert the key into the lock and turn the key anticlockwise. Rotate the cap anticlockwise and lift clear of the tank filler neck.

To close and lock the cap:

- Align the cap to the tank filler neck and rotate the cap clockwise until the cap seals against the filler neck.
- In the fully closed position, a ratchet mechanism prevents overtightening of the cap by allowing the outer part of the cap to turn independently of the internal part.
- Turn the key clockwise to lock and remove the key.
- Slide the cover back into place.

#### Filling the Fuel Tank

# **A** 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, tyres 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.

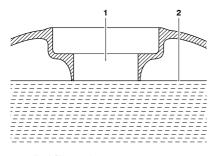
Fuel spilled near to, or onto the tyres will reduce the tyres' ability to grip the road. This will result in a dangerous riding condition potentially causing loss of motorcycle control and an accident.

# **A** Caution

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

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 make sure 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.



# Fuel filler neck Maximum fuel level

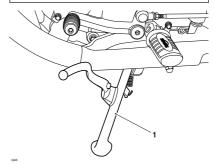
After refuelling always check that the fuel filler cap is correctly closed.

#### Side Stand

# **Marning**

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.



#### 1. Side stand

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

#### Note:

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

Whenever the side stand is used, before riding, always make sure 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.

#### Side Panels

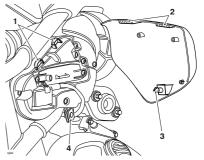
The left hand side panel can be removed to gain access to the fuse box, adjustment tool and inspection cap tool.

To remove either side panel:

- Grasp the panel firmly in both hands and pull the lower edge of the panel away from the motorcycle until the spigot clears the retaining grommet (leaving the grommet in place).
- Slide the side panel rearwards and lift the side panel clear of the locating tangs.

To refit either side panel:

- Slide the side panel forwards whilst place the locating tangs into the side panel locating slots.
- Position the spigot to the grommet.
- Press firmly to secure the panel.
- Grasp the panel and make sure that it is fully retained.



- 1. Locating tangs
- 2. Side panel locating slots
- Spigot
- 4. Grommet

### Seat Adjustment

# Bonneville Bobber and Bonneville Bobber Black Only

### **A** Caution

To prevent damage to the seat or seat cover, care must be taken not to drop the seat.

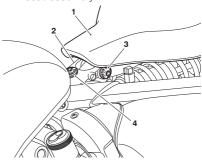
Do not lean the seat against the motorcycle or any surface which may damage the seat or seat cover. Instead, place the seat, with the seat cover facing upwards, on a clean, flat surface which is covered with a soft cloth.

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

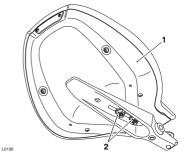
The seat does not need to be removed to be adjusted. The seat assembly can be adjusted for position along the seat mount by up to 30 mm.

To adjust the seat:

 Remove the front fixing from the seat assembly.



- . Seat
- 2. Right hand side fixing
  - Left hand side fixing
- 4. Front fixing
- Loosen the left hand side fixing and rotate the seat around the two side fixings to access the adjustment slot under the seat.
- Loosen, but do not remove, the two nuts underneath the seat.



- 1. Seat (shown removed for clarity)
- 2. Nuts

- Slide the seat along the seat mount to the desired position.
- Tighten the nuts to 38 Nm.
- Rotate the seat back to its original position. Make sure that the front of the seat mount is in contact with the frame.
- Tighten the left hand side fixing to 48 Nm.
- Install the front fixing and tighten to 48 Nm.

#### Rider's Seat

#### Bonneville Speedmaster Only



To prevent damage to the seats or seat covers, care must be taken not to drop the seats.

Do not lean the seats against the motorcycle or any surface which may damage the seats or seat covers. Instead, place the seats, with the seat cover facing upwards, on a clean, flat surface which is covered with a soft cloth.

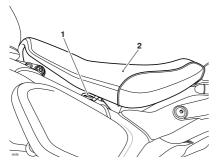
Do not place any item on the seats which may cause damage or staining to the seat covers.

To remove the seat:

#### Note:

- The rider's seat is tethered to the motorcycle by a lanyard.
  - Pull the lock release, located at the front left hand side of the seat, forwards to release the seat from its lock.

 Lift the seat up at the back to detach it from the motorcycle frame.



Lock release
 Rider's seat

To refit the seat:

- Engage the seat's locating tongue under the fuel tank
- Press firmly down in the centre of the seat to engage the seat lock.
   An audible click can be heard when the seat lock is engaged.

# **Marning**

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 it may detach from the motorcycle.

A loose or detached seat could cause loss of motorcycle control and an accident.

### Passenger Seat

#### Bonneville Speedmaster Only

# **A** Caution

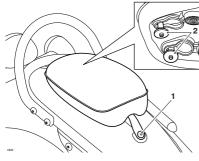
To prevent damage to the seats or seat covers, care must be taken not to drop the seats.

Do not lean the seats against the motorcycle or any surface which may damage the seats or seat covers. Instead, place the seats, with the seat cover facing upwards, on a clean, flat surface which is covered with a soft cloth.

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

To remove the seat:

- Remove the rider's seat (see page 53).
- Remove the fixing securing the passenger seat to the mudguard.
- Raise the front of the seat and slide rearwards to disengage it from the two securing lugs on the mudguard.



# Fixing Securing lugs

To refit the seat:

- Align the holes on the rear of the seat base to the seat two locating lugs on the mudguard.
- Slide the seat forward until the lugs are engaged into the seat.
- Fit the fixing for the front of the seat and tighten to 9 Nm.
- Fit the rider's seat (see page 53).

### **Marning**

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 it may detach from the motorcycle.

A loose or detached seat could cause loss of motorcycle control and an accident.

#### Tool Kit

The tool kit consists of an adjustment tool and inspection cap tool.

The adjustment tool is attached to the inside of the left hand side panel. The adjustment tool can be used for many tasks.

The inspection cap tool is attached to the fuse box which is located under the left hand side panel. The inspection cap tool is used to open the cap on the sprocket cover to view the brake fluid level reservoir.

#### Bonneville Speedmaster Only

There is a C-spanner and an extension handle attached to the underside of the rider's seat. This is used for adjusting the spring preload rear suspension settings.

### Running-In



cbo

Running-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 running-in will ensure lower exhaust emissions, and will optimise performance, fuel economy and longevity of the engine and other motorcycle components.

During the first 500 miles (800 km):

- · 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 speed.

From 500 to 1,000 miles (800 to 1,500 km):

 Engine speed can gradually be increased to the rev limit for short periods. Both during and after running-in has been completed:

- Do not overrev the engine when cold;
- Do not let the engine labour. Always downshift before the engine begins to 'struggle';
- Do not ride with engine speeds unnecessarily high. Changing up a gear helps reduce fuel consumption, reduces noise and helps to protect the environment.

#### **Daily Safety Checks**



DAILY SAFETY CHECKS AND SEAT CAPE

CONTPOLES DE SÉCURITÉ QUOI INEN ET INETTOYAGE DE LA SELLE

COMPROBACIONS DAPIAS Y EL MANTENMINITO DE SU ASIENTO

TAGLICHE SICHERHETISKONT ROLLEN UND PILLEGE DES SITZES

DAGILIGA SAKENHETISKONT ROLLEN UND PILLEGE DES SITZES

DAGILIGA SAKENHETISKONT ROLLER OLVI PARO VA SOBLI

CONTROLLI DI SICUREZZA GIORNALIERI E PULIZIA SELLA

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DAGILIGA SAKEN ETSKONTROLLER OLVI PARO VA SOBLI

CONTROLLI DI SICUREZZA GIORNALIERI E PULIZIA SELLA

ENTENDADE DE LA ENTENDAD

### **Marning**

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 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 authorised Triumph dealer for the action required to return the motorcycle to a safe operating condition.

Check.

**Fuel:** Adequate supply in tank, no fuel leaks (see page **49**).

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

**Drive Chain:** Correct adjustment (see page **88**).

**Tyres/Wheels:** Correct inflation pressures (when cold). Tread depth/wear, tyre/wheel damage, loose/broken spokes, punctures etc. (see page **102**).

**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 fixings.

**Steering Action:** Smooth but not loose from lock to lock. No binding of any of the control cables (see page **98**).

**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 **93** and page **93**).

**Brake Pads:** Check that the correct amount of friction material is remaining on all the brake pads (see page **92**).

**Brake Fluid Levels:** No brake fluid leakage. Brake fluid levels must be between the MAX and MIN marks on both reservoirs (see page **93**).

**Front Forks:** Smooth action. No fork oil leakage (see page **100**).

**Throttle:** Make sure that the throttle grip returns to the idle position without sticking (see page **86**).

**Clutch:** Smooth operation and correct cable free play (see page **87**).

**Coolant:** No coolant leakage. Check the coolant level in the expansion tank (when the engine is cold) (see page **83**).

**Electrical Equipment:** All lights and horn function correctly (see page **42**).

**Engine Stop:** Engine start/stop switch turns the engine OFF when the switch is moved to the STOP position (see page **40**).

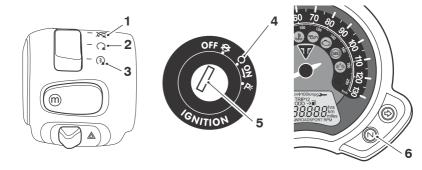
**Stands:** Returns to the fully up position by spring tension. Return springs not weak or damaged (see page **50**).

### HOW TO RIDE THE MOTORCYCLE

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### How to Ride the Motorcycle



- 1. STOP position
- 2. RUN position
- 3. START position

- 4. ON position
- 5. Ignition switch
- 6. Neutral indicator light

### Stopping the Engine

# **A** 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 stop the engine:

- · Close the throttle completely.
- Select neutral.
- · Turn the ignition switch off.
- · Select first gear.
- Position the motorcycle on a firm, level surface with the side stand (see page 68).
- Lock the steering (see page 40).

### Starting the Engine

# **A** 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.

### **A** Caution

Do not operate the starter continuously for more than five 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.

### **A** 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.

#### To start the engine:

- Check that the engine stop switch is in the RUN position.
- Make sure the transmission is in neutral.
- · Turn the ignition switch on.

#### Note:

- When the ignition is switched on, the instrument warning lights will illuminate and will then go off (except those which normally remain on until the engine starts see page 24).
  - Pull the clutch lever fully into the handlebar.
- Leaving the throttle fully closed, push the starter button until the engine starts.

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 whilst the engine is running, and the transmission is not in neutral then the engine will stop regardless of the clutch lever position.

### Moving Off

To move the motorcycle:

- 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.

### **Changing Gears**

# **Marning**

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 tyre breaking traction (wheel spin).

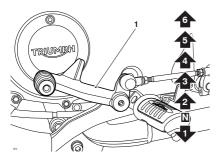
Always open the throttle cautiously, particularly if you are unfamiliar with the motorcycle, as a 'wheelie' or loss of traction will cause loss of motorcycle control and an accident.

# **Marning**

Do not change 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.

Changing down should be done such that low engine speeds will be ensured.



1. Gear change pedal

To change gears:

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

#### Note:

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

### **Braking**

# **Marning**

WHEN BRAKING, OBSERVE THE FOLLOWING:

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

Change down 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.

Change down 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 down changing, 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.

Triumph strongly recommends that all riders take a course of instruction, which includes advice on safe brake operation. Incorrect brake technique could result in loss of control and an accident.

# **Marning**

For your safety. always exercise extreme caution when braking. accelerating or turning anv as incautious 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 manoeuvre 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 or mountain pass, make use of the engine's braking effect by down changing and use both front and rear brakes intermittently.

Continuous brake application or use of the rear brake only can overheat the brakes and reduce their effectiveness leading to loss of motorcycle control and an accident.

# **Marning**

Riding with your foot on the brake pedal or your hand on the brake lever may actuate the brake light, giving a false indication to other road users.

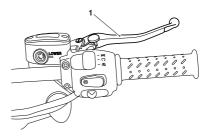
It may also overheat the brake, reducing braking effectiveness leading to loss of motorcycle control and an accident.

# **Marning**

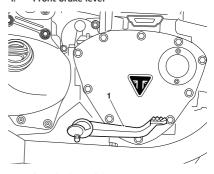
Do not coast with the engine switched off, and do not tow the motorcycle.

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.



1. Front brake lever



 Rear brake pedal (Bonneville Bobber shown)

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

# **A** Warning

ABS prevents the wheels from locking, therefore maximising 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 warning 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 ABS warning light becomes illuminated at any other time while riding, it indicates that the ABS has a malfunction that requires investigation.

- 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.

### **Marning**

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 authorised 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.

# **Marning**

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).

# **Marning**

The ABS computer operates by comparing the relative speed of the front and rear wheels.

Use of non-recommended tyres 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.

# Considerations for High Speed Operation

### **A** 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.

# **A** 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.

# **Marning**

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.

# **Marning**

The items listed below 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

Make sure that 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. Make sure that the control cables do not restrict the steering in any way.

#### Luggage

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

#### Brakes

Check that the front and rear brakes are functioning correctly.

#### Tyres

High speed operation is hard on tyres, and tyres that are in good condition are crucial to riding safely. Examine their overall condition, inflate to the correct pressure (when the tyres are cold), and check the wheel balance. Securely fit the valve caps after checking tyre pressures. Observe the information given in the maintenance and specification sections on tyre checking and tyre safety.

#### Fuel

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

### **A** Caution

In many countries, the exhaust system for this model 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 make sure you have adequate fuel for your journey.

#### **Engine Oil**

Check that the engine oil level is correct. Make sure that the correct grade and type of oil is used when topping up.

#### Drive Chain

Make sure that the drive chain is correctly adjusted and lubricated. Inspect the chain for wear and damage.

#### 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 sure that all electrical equipment such as the headlight, rear/brake light, direction indicators and horn all work correctly.

#### Miscellaneous

Visually check that all fixings are tight.

### **Parking**

# **Marning**

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.

# **Marning**

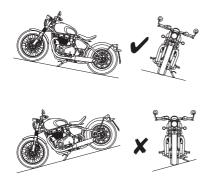
Petrol is extremely flammable and can be explosive under certain conditions. If parking inside a garage or other structure, be sure it is well ventilated and the motorcycle is not close to any source of flame or sparks. This includes any appliance with a pilot light.

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

# **Marning**

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 burn.



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 sidestand

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, licence plate and position lights on by turning the ignition switch to P (PARK).

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

Make sure that the side stand is fully retracted before riding off.

### Accessories, Loading and Passengers

### **ACCESSORIES, LOADING AND PASSENGERS**

The addition of accessories and carriage of 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 additional loads.

#### Accessories

# **Marning**

Do not install accessories or carry luggage that impairs the control of the motorcycle.

Make sure that you have not adversely affected 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.

# **Marning**

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.

# Warning Continued

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 motorcycle control and an accident. When riding at high speed, always be aware that various motorcycle configuration and environmental factors can adversely affect the stability of your motorcycle. For example:

- Incorrectly balanced loads on both sides of the motorcycle
- Incorrectly adjusted front and rear suspension settings
- Incorrectly adjusted tyre pressures
- Excessively or unevenly worn tyres
- Side winds and turbulence from other vehicles
- Loose clothing.

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

### Accessories, Loading and Passengers

#### Loading

# **Marning**

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

Always make sure that any loads carried are evenly distributed on both sides of the motorcycle. Make sure that the load is correctly secured so that it will not move around while the motorcycle is in motion.

Evenly distribute the load within each pannier (if fitted). Pack heavy items at the bottom and on the inboard side of the pannier.

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

Never exceed the maximum vehicle loading weight of:

125 kg (275 lb) - Bonneville Bobber and Bonneville Bobber Black

210 kg (463 lb) - Bonneville Speedmaster

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

# **Marning**

Never attempt to store any items between the frame and the fuel tank. This can restrict the steering and will cause loss of control leading to an accident.

# **Warning** Continued

Weight attached to the handlebar or front fork will increase the mass of the steering assembly and can result in loss of steering control leading to an accident

### **Marning**

If the passenger seat is used to carry small objects, they must not exceed 5 kg (11 lbs) 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 objects in excess of 5 kg (11 lbs) 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 passenger seat, the maximum speed of the motorcycle must be reduced to 80 mph (130 km/h).

#### Passengers (Bonneville Speedmaster only)

# **Marning**

Bonneville Speedmaster

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, passenger handhold and footrests being fitted).

### Accessories, Loading and Passengers

# **Marning**

Bonneville Bobber and Bonneville Bobber Black

This motorcycle is designed for use as a two-wheeled vehicle capable of carrying a rider on his/her own.

Operation of this motorcycle with a passenger is dangerous and could lead to loss of control and an accident.

# **Marning**

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 motorcycle control and an accident.

# **Marning**

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**

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 grab handles 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.

# **A** 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

# **MAINTENANCE**

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### Scheduled Maintenance

# **Marning**

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

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

# **Marning**

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 affect 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.

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

# **Warning** Continued

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

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.

Scheduled maintenance may be carried out by your authorised Triumph dealer in three ways; annual maintenance, mileage based maintenance or a combination of both, depending on the mileage the motorcycle travels each year.

- Motorcycles travelling less than 10,000 miles (16,000 km) per year must be maintained annually. In addition to this, mileage based items require maintenance at their specified intervals, as the motorcycle reaches this mileage.
- Motorcycles travelling approximately 10,000 miles (16,000 km) per year must have the annual maintenance and the specified mileage based items carried out together.

3. Motorcycles travelling more than 10,000 miles (16,000 km) per year must have the mileage based items maintained as the motorcycle reaches the specified mileage. In addition to this, annual based items will require maintenance at their specified annual intervals.

In all cases maintenance must be carried out at or before the specified maintenance intervals shown. Consult an authorised Triumph dealer for advice on which maintenance schedule is most suitable for your motorcycle.

Triumph Motorcycles cannot accept any responsibility for damage or injury resulting from incorrect maintenance or improper adjustment.

### **Scheduled Maintenance Table**

Odometer Reading in Miles (Km) or Time Period, whichever comes first							
		First Service	Annual Service	Mileage Based Service			
	Every	500 (800) 1 month	Year	10,000 and 30,000 (16,000 and 48,000)	20,000 (32,000)	40,000 (64,000)	
	L	ubrication	•				
Engine - check for leaks	Day	•	•	•			
Engine oil - renew	-			•			
Engine oil filter - renew	-		•	•	•	•	
	Fuel System a	nd Engine Mana	agement				
Autoscan - Carry out a full Autoscan using the Triumph Diagnostic Tool (print a customer copy)	-	•	•	•			
Fuel system - check for leaks	-			•			
Fuel system - check fuel hoses for chafing, cracks or damage. Replace if necessary.				•			
Air cleaner - renew	-						
Fuel filter - renew	-						
Throttle body plate (butterfly) - check/clean	-						
Throttle bodies - balance	-						
Fuel hoses - renew		Eve	ery 4 years re	gardless of milea	ige		
Evaporative hoses* - renew (if fitted)		Eve	ery 4 years re	gardless of milea	ige		
	lgn	ition System					
Spark plugs - check	-						
Spark plugs - renew	-						
	Cor	oling System					
Cooling system - check for leaks	-						
Cooling system - check coolant hoses for chafing/cracks/damage. Replace if necessary.	-			•			
Coolant level - check/adjust	Day		•	•			
Coolant - renew		Eve	ery 3 years re	gardless of milea	ige		
		Engine					
Clutch cable - check function and adjust as necessary	Day	•	•	•	•		
Valve clearances - check/adjust	-						
Camshaft timing	-						
	Whe	els and Tyres					
Wheels - inspect for damage	Day		•	•	•		
Wheel bearings - check for wear/smooth operation	-			•			
Wheels - check wheels for broken or damaged spokes and check spoke tightness	Day	•	•	•	•		
Tyre wear/tyre damage - check	Day			•			
Tyre pressures - check/adjust	Day						

Operation Description	Odometer R	eading in Miles	(Km) or Time	Period, whicheve	r comes first	:
		First Service	Annual Service	Mileage Based Service		
	Every	500 (800) 1 month	Year	10,000 and 30,000 (16,000 and 48,000)	20,000 (32,000)	40,000 (64,000)
	Steerin	g and Suspension	on			
Steering - check for free operation	Day	•				
Front and rear suspension - check for damage/ eaks/smooth operation	Day			•		
Fork oil - renew	-					•
Headstock bearings - check/adjust	-			٠		
Headstock bearings - lubricate	-					
Rear suspension unit linkage - lubricate	-				· ·	
		Brakes				
ABS and immobiliser ECMs - check for stored DTCs	-	•		•		
Brake pads - check wear levels	Day	•		•		
Brake master cylinders - check for fluid leaks	-	•		•		
Brake calipers - check for fluid leaks and seized pistons	-			•		
Brake fluid levels - check	Day	•	•	•		
Brake fluid - renew			ery 2 years re	gardless of milea	ige	
		Drive Chain				
Drive chain slack - check/adjust	Day	•	•	•		
Drive chain - wear check			-	miles (800 km)		
Drive chain - lubricate			Every 200	miles (300 km)		
Drive chain rubbing strips - check for wear, cracks or damage	Day					<u> </u>
		Electrical	1	T		
All lights, instruments and electrical systems - check/adjust	Day					<u> </u>
		General	1	1		
Instruments, chassis ECM (if fitted) and engine ECM - check for latest calibration download using the Triumph diagnostic tool	-					
Bank angle indicators - check for wear	Day					
Fasteners - inspect visually for security	Day					
Centre and/or side stand - check for wear/ smooth operation	•	•	•	•	•	•
Centre stand flanged sleeves (if fitted) - clean/ grease			•	•	•	•
Side stand pivot pin - clean/grease	-			•		
Carry out all outstanding Service Bulletin and warranty work	•					
Carry out road test	•	•				
Complete the service record book and reset the						

### **Engine Oil**



# **A** 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.

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.

### Oil Level Inspection

# **Marning**

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.

### **Marning**

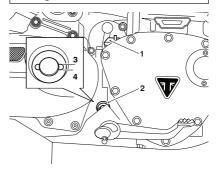
If the engine has recently been running, the exhaust system will be hot.

Before working on or near the exhaust system, allow sufficient time for the exhaust system to cool as touching any part of a hot exhaust system could cause burn injuries.

# **A**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 situation.



- 1. Filler plug
- 2. Sight glass
- 3. Maximum limit
- . Minimum limit

To inspect the oil level:

- Start the engine and run at idle for approximately five minutes. Stop the engine and wait for at least three minutes to allow the oil to settle
- Note the oil level visible in the sight glass.
- When correct, oil should be visible in the sight glass at a point midway between the upper (maximum) and lower (minimum) markings on the sight glass.

#### Note:

- An accurate indication of the level of oil in the engine is only shown when the engine is at normal operating temperature and the motorcycle is upright (not on the side stand).
  - If it is necessary to top up the oil level, remove the filler plug and add oil, a little at a time, until the level registered in the sight glass is correct.

### **A** Caution

Make sure no foreign matter or contamination enters the engine during an oil change or top up.

Contamination entering the engine may lead to engine damage.

• Once the correct level is reached, fit and tighten the filler plug.

### Oil and Oil Filter Change

# **Marning**

Prolonged or repeated contact with engine oil can lead to skin dryness, irritation and dermatitis.

In addition, used engine oil contains harmful contamination that can lead to skin cancer.

Always wear suitable protective clothing and avoid skin contact with used oil.

### **Marning**

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.

# **A** Warning

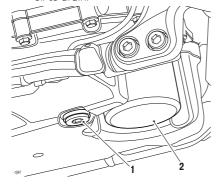
If the engine has recently been running, the exhaust system will be hot.

Before working on or near the exhaust system, allow sufficient time for the exhaust system to cool as touching any part of a hot exhaust system could cause burn injuries.

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

To change the engine oil and filter:

- Warm up the engine thoroughly then stop the engine. Secure the motorcycle on the side stand.
- Allow the oil to settle for five minutes before draining.
- Place an oil drain pan beneath the engine.
- Remove the sump plug from the bottom of the sump and allow the oil to drain.



# Sump plug Oil filter

- Remove the sump plug from the bottom of the sump and allow the oil to drain.
- Secure the motorcycle in an upright position on level ground.
- Position the oil drain pan beneath the oil filter.
- Unscrew and remove the oil filter using the Triumph service tool T3880313. Dispose of the old filter in an environmentally friendly way.
- Prefill the replacement oil filter with new engine oil.

- Apply a smear of clean engine oil to the sealing ring of the new oil filter. Fit the oil filter and tighten to 10 Nm.
- After the oil has completely drained out, fit a new sealing washer to the sump plug. Fit and tighten the plug to 25 Nm.
- · Remove the oil filler plug.
- 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, such as Castrol Power 1 Racing 4T 10W-40 (fully synthetic) engine oil, sold as Castrol Power RS Racing 4T 10W-40 (fully synthetic) in some countries.
- Do not overfill or exceed the capacities given in the Specifications section.
- Start the engine and allow it to idle for a minimum of 30 seconds.

## **A** 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.

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

### **A** 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.

 Turn the ignition OFF, check the oil level using the method previously described, and top up to between the minimum and maximum level lines in the sight glass.

# Disposal of Used Engine Oil and Oil Filters

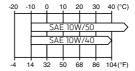
To protect the environment, do not pour oil on the ground, down sewers or drains, or into watercourses. Do not place used oil filters in with general waste. If in doubt, contact your local authority.

### Oil Specification and Grade

Triumph's 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, such as Castrol Power 1 Racing 4T 10W-40 (fully synthetic) engine oil, sold as Castrol Power RS Racing 4T 10W-40 (fully synthetic) in some countries.

Refer to the chart below for the correct oil viscosity (10W/40 or 10W/50) to be used in your riding area.

#### Ambient Temperature (°C)



Ambient Temperature (°F)

#### Oil Viscosity Temperature Range

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, nondetergent oil, castor based oils or any oil not conforming to the required specification. The use of these oils may cause instant, severe engine damage.

Make sure that no foreign matter enters the crankcase during an engine oil change or top up.

### Cooling System



To ensure efficient engine cooling, check the coolant level each day before riding the motorcycle, and top up 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 coloured green, contains a 50% solution of ethylene glycol based antifreeze, and has a freezing point of -35°C (-31°F).

#### Corrosion Inhibitors

# **Warning**

HD4X Hybrid OAT coolant contains corrosion inhibitors and antifreeze suitable for aluminium 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 antifreeze or any of the motorcycle coolant.

#### Note:

 HD4X Hybrid OAT coolant, as supplied by Triumph, is premixed and does not need to be diluted prior to filling or topping up the cooling system.

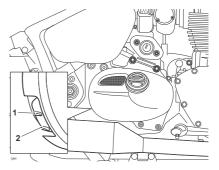
To protect the cooling system from corrosion, the use of corrosion inhibitor chemicals in the coolant is essential.

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.

### Coolant Level Inspection

#### Note:

 The coolant level should be checked when the engine is cold (at room or ambient temperature).



- 1. Maximum mark
- 2. Minimum mark

To inspect the coolant level:

- Position the motorcycle on level ground and in an upright position.
- The expansion tank can be viewed from the right hand side of the motorcycle, towards the rear of the engine.
- Check the coolant level in the expansion tank.
- The coolant level must be between the maximum (top) and minimum (bottom) marks. If the coolant is below the minimum level, the coolant level must be adjusted.

### Coolant Level Adjustment

# **Warning**

Do not remove the expansion tank or 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, pressurised coolant will cause scalds and skin damage.

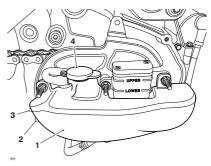
# **A** Caution

If hard water is used in the cooling system, it will cause scale accumulation in the engine and radiator and considerably reduce the efficiency of the cooling system.

Reduced cooling system efficiency may cause the engine to overheat and suffer severe damage.

#### Note:

- If the coolant level is being checked because the coolant has overheated, also check the level in the radiator and top up 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.



- 1. Coolant expansion tank
- 2. Minimum mark
- 3. Maximum mark
  - . Coolant expansion tank cap

To adjust the coolant level:

- Position the motorcycle on level ground and in an upright position.
- · Allow the engine to cool.
- Disconnect the battery, see page **107**.
- Remove the sprocket cover on the right hand side of the motorcycle.
- Remove the cap from the expansion tank and add coolant mixture through the filler opening until the level reaches the maximum (top) mark.
- · Refit the cap.
- Refit the sprocket cover and tighten the fixings to 9 Nm.
- Reconnect the battery, see page 111.

### Coolant Change

It is recommended that the coolant is changed by an authorised Triumph dealer in accordance with scheduled maintenance requirements.

#### Radiator and Hoses

# **A** 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.

### **A** 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 unauthorised 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.

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

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

#### Throttle Control

# **Marning**

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

A sticking or stuck throttle control will lead to loss of motorcycle control and an accident.

### Throttle Inspection

# **Marning**

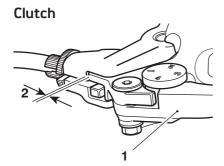
Use of the motorcycle with a sticking or damaged throttle control will interfere with the throttle function resulting in loss of motorcycle control and an accident.

To avoid continued use of a sticking or damaged throttle control, always have it checked by your authorised Triumph dealer.

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

Check that there is 1 - 2 mm of throttle grip free play when lightly turning the throttle grip back and forth.

If there is an incorrect amount of free play, Triumph recommends that you have your authorised Triumph dealer investigate.



# Clutch lever 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 changing 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.

### Clutch Inspection

Check that there is 2 - 3 mm clutch lever free play at the lever.

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

### Clutch Adjustment

Turn the adjuster sleeve until the correct amount of clutch lever free play is achieved.

Check that there is 2 - 3 mm clutch lever free play at the lever.

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

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 2 - 3 mm of free play at the clutch lever. Tighten the locknut to **3.4 Nm**.

#### Drive Chain



### **A** 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.

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 authorised Triumph dealer.

#### Drive Chain Lubrication

Lubrication is necessary every 200 miles (300 km) and also after riding in wet weather, on wet roads, or any time that the chain appears dry.

To lubricate the drive chain:

- Use the special drive chain lubricant as recommended in the Specifications section.
- Apply lubricant to the sides of the rollers then allow the motorcycle to stand unused for at least eight hours (overnight is ideal). This will allow the oil to penetrate to the drive chain 0-rings etc.
- Before riding, wipe off any excess oil.
- If the drive chain is especially dirty, clean first and then apply oil as mentioned above.

### **A** Caution

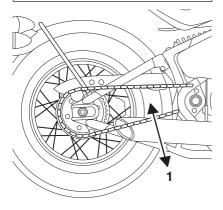
Do not use a pressure washer to clean the drive chain as this may cause damage to the drive chain components.

### Chain Free Movement Inspection

# **Marning**

Before starting work, make sure the motorcycle is stabilised and adequately supported.

This will help prevent personal injury and/or damage to the motorcycle.



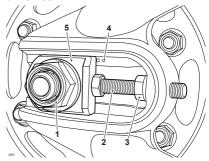
#### 1. Maximum movement position

To check the chain free movement:

- 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.

### Chain Free Movement Adjustment

The vertical movement of the final drive chain must be in the range of 26 - 33 mm.



- 1. Rear wheel spindle nut
- 2. Adjuster bolt
- 3. Adjuster bolt lock nut
- 4. Adjuster markings
- 5. Spindle adjuster

If the chain free movement measurement is incorrect, adjustments must be made as follows:

- · Loosen the wheel spindle nut.
- Loosen the lock nuts on both the left hand and right hand chain adjuster bolts.
- Move both adjusters by an equal amount using the adjuster markings as a guideline.
- Turn the adjuster bolts clockwise to increase chain free movement and anticlockwise to reduce chain free movement.
- When the correct amount of chain free movement has been set, push the wheel into firm contact with the adjusters.

- Make sure the same adjuster marking is aligned with the spindle adjuster on both sides of the swinging arm.
- Tighten both adjuster lock nuts to 20 Nm and the rear wheel spindle nut to 110 Nm.
- Repeat the chain adjustment check.
   Readjust if necessary.

# **Warning**

Operation of the motorcycle with insecure adjuster lock nuts or a loose wheel spindle may result in impaired stability and handling of the motorcycle. This impaired stability and handling may lead to loss of control or an accident.

 Check the rear brake effectiveness. Rectify if necessary.

# **Marning**

It is dangerous to operate the motorcycle with defective brakes; you must have your authorised 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 motorcycle control or an accident.

### Chain and Sprocket Wear Inspection

# **Marning**

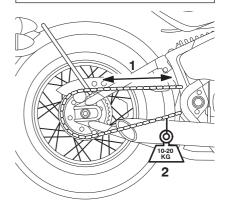
Never neglect chain maintenance and always have chains installed by an authorised Triumph dealer. Use a genuine Triumph supplied chain as specified in the Triumph Parts Catalogue.

The use of non-approved chains may result in a broken chain or may cause the chain to jump off the sprockets leading to loss of motorcycle control or an accident.

### **A** 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.



- Measure across 20 links
- 2. Weight

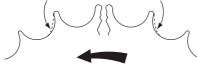
To inspect the chain and sprocket wear:

- Stretch the chain taut by hanging a 10 - 20 kg (20 - 40 lb) weight on the chain.
- Measure the length of 20 links on the straight part of the chain from pin centre of the 1st pin to the pin centre of the 21st pin. Since the chain may wear unevenly, take measurements in several places.
- If the length exceeds the maximum service limit of 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.

Worn Tooth (Engine Sprocket)

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Worn Tooth (Rear Sprocket)



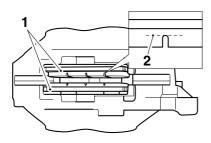
(Sprocket wear exaggerated for illustrative purposes)

#### Note:

- Illustration shows wear on sprockets mounted on the left hand side of the motorcycle.
- For sprockets mounted on the right hand side of the motorcycle, the wear is on the opposite side of the tooth.
  - If there is any irregularity, have the drive chain and/or the sprockets replaced by an authorised Triumph dealer.

#### **Brakes**

### **Brake Wear Inspection**



cbmz 2

- 1. Brake pads
- 2. Minimum thickness line

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 (front or rear brakes) is less than 1.5 mm (0.06 in), that is, if the pad has worn down to the bottom of the grooves, replace all the pads on the wheel.

# Breaking-in New Brake Pads and Discs

# **Marning**

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'.

New brake discs and pads require 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).

During this period, avoid extreme braking, ride with caution and allow for greater braking distances.

### **Brake Pad Wear Compensation**

# **Marning**

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 pipes and hoses or the brakes may be defective.

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

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

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.

### Disc Brake Fluid

# **Marning**

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.

# **Marning**

If the ABS is not functioning, the brake system will continue to function as a non-ABS equipped brake system. In this situation, braking too hard will cause the wheels to lock resulting in loss of control and an accident.

Reduce speed and do not continue to ride for longer than is necessary with the indicator light illuminated. Contact an authorised Triumph dealer as soon as possible to have the fault checked and rectified.

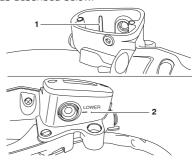
Inspect the level of brake fluid in both reservoirs and change the brake fluid in accordance with scheduled maintenance requirements. Use only DOT 4 fluid as recommended in the Specification section. The brake fluid must also be changed if it becomes, or is suspected of having become contaminated with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

#### Note:

 A special tool is required to bleed the ABS braking system. Contact your authorised Triumph dealer when the brake fluid needs renewing or the hydraulic system requires maintenance.

# Front Brake Fluid Level Inspection and Adjustment

Inspect and adjust the brake fluid level as described below.



#### 1. Upper level line

#### 2. Lower level line

To inspect the front brake fluid level:

- Check the level of fluid visible in the window at the front of the reservoir body.
- The brake fluid level must be kept between the upper and lower level lines (reservoir held horizontal).

To adjust the brake fluid level:

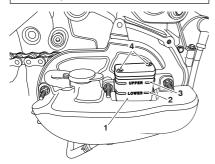
- Release the cap retaining screws and remove the reservoir cap and the diaphragm seal.
- Fill the reservoir to the upper level line using new DOT 4 brake fluid from a sealed container.
- Refit the reservoir cap making sure that the diaphragm seal is correctly positioned between the cap and reservoir body.
- Tighten the cap retaining screws to 1 Nm.

# Rear Brake Fluid Level Inspection and Adjustment

# **Warning**

If there has been an appreciable drop in the level of the fluid in either fluid reservoir, consult your authorised 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. Lower level line
- Upper level line
- 4. Cap retaining screws

The rear brake fluid reservoir is located behind the sprocket cover on the right hand side of the motorcycle.

### Inspection

To inspect the rear brake fluid level:

- Remove the cap from the sprocket cover using the special tool attached to the fuse box.
- Insert the short end of the tool into the grooves at the centre of the cap and turn the tool anticlockwise to loosen the cap and remove.
- The rear brake fluid reservoir is then visible.
- The brake fluid level in the rear reservoir must be kept between the upper and lower level lines.
- Replace the cap if the rear brake fluid level is acceptable.

### Adjustment

To adjust the rear brake fluid level:

- Disconnect the battery, see page 107.
- Remove the sprocket cover to access the rear brake fluid reservoir.
- Release the reservoir cap retaining screws and remove the cover noting the position of the sealing diaphragm.
- Fill the reservoir to the upper level line using new DOT 4 from a sealed container.
- Refit the reservoir cap making sure that the diaphragm seal is correctly positioned between the cap and the reservoir body.
- Tighten the cap retaining screws to 1.5 Nm.
- Refit the sprocket cover and tighten the fixings to 9 Nm.
- Reconnect the battery, see page 111.

### **Brake Light Switches**

# **Marning**

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.

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 authorised Triumph dealer investigate and rectify the fault.

### **Mirrors**

# **Marning**

Operation of the motorcycle with incorrectly adjusted mirrors is dangerous.

Operation of the motorcycle with incorrectly adjusted mirrors will result in loss of vision to the rear of the motorcycle. It is dangerous to ride a motorcycle without sufficient rearward vision.

Always adjust the mirrors to provide sufficient rearward vision before riding the motorcycle.

### **Marning**

Never attempt to clean or adjust mirrors while riding the motorcycle. Removal of the rider's hands from the handlebars while riding the motorcycle will diminish the ability of the rider to maintain control of the motorcycle.

Attempting to clean or adjust mirrors while riding the motorcycle may result in loss of control of the motorcycle and an accident.

Only attempt to clean or adjust the mirrors while stationary.

#### Models with Bar End Mirrors

# **Marning**

Incorrect adjustment of the bar end mirrors may cause the mirror arm to contact the fuel tank, brake or clutch levers or other parts of the motorcycle.

This will restrict brake or clutch lever operation or restrict steering movement, resulting in loss of motorcycle control and an accident.

Adjust the mirrors as required to make sure they do not contact any part of the motorcycle. After adjustment, move the handlebar to the left and right full lock while checking that the mirrors do not contact the fuel tank, brake or clutch levers or other parts of the motorcycle.

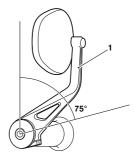
### **A** Caution

Incorrect adjustment of the bar end mirrors may cause the mirror arm to contact the fuel tank, brake or clutch levers or other parts of the motorcycle.

This will result in damage to the fuel tank, brake or clutch levers or other parts of the motorcycle.

Adjust the mirrors as required to make sure they do not contact any part of the motorcycle. After adjustment, move the handlebar to the left and right full lock while checking that the mirrors do not contact the fuel tank, brake or clutch levers or other parts of the motorcycle.

The bar end mirrors will be set by your authorised Triumph dealer and will not normally require any adjustment. Should adjustment be necessary, do not rotate the mirror beyond 75°, measured from the vertical section of the mirror arm.



1. Mirror arm vertical section

### Steering/Wheel Bearings

# **Marning**

To prevent risk of injury from the motorcycle falling during the inspection, make sure that the motorcycle is stabilised 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.

Make sure that the position of the support block will not cause damage to the motorcycle.

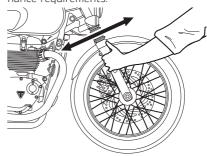
### Steering Inspection

# **Marning**

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

#### Note:

 Always inspect the wheel bearings at the same time as the steering bearings. Lubricate and inspect the condition of the steering (headstock) bearings in accordance with scheduled maintenance requirements.



#### Inspecting the Steering for Free Play

To inspect the steering:

- 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 forward and backward.
- If any free play can be detected in the steering (headstock) bearings, ask your authorised Triumph dealer to inspect and rectify any faults before riding.
- Remove the support and place the motorcycle on the side stand.

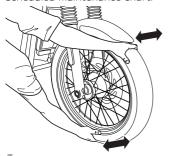
### Wheel Bearings Inspection

# **Marning**

Riding 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 authorised Triumph dealer before riding.

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 authorised Triumph dealer inspect the wheel bearings.

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



Inspecting the Wheel Bearings

To inspect the wheel bearings:

- Position the motorcycle on level ground, in an upright position.
- Raise the front wheel off 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 authorised Triumph dealer to inspect and rectify any faults before riding.
- Reposition the lifting device and repeat the procedure for the rear wheel
- Remove the support and place the motorcycle on the side stand.

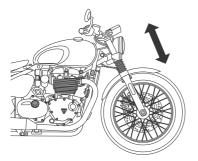
# Front Suspension - Front Fork Inspection

### **Marning**

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 pressurised oil. Skin and eye damage can result from contact with the pressurised oil.



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 authorised Triumph dealer.

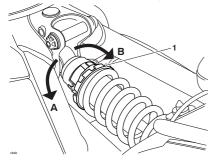
To check that the forks operate smoothly:

- 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 authorised Triumph dealer.

### Rear Suspension Preload Adjustment

#### Bonneville Speedmaster Only

The spring preload adjuster is located at the top of the rear suspension unit and is accessed by removing the rider's seat. Rear adjuster settings are counted from one, with position one being with the adjuster turned fully clockwise. Position one gives the minimum amount of spring preload. There are seven adjuster positions in total. Position seven gives the maximum amount of spring preload.



- Rear suspension preload adjuster ring
   Anticlockwise direction
- B. Clockwise direction

To change the rear suspension spring preload setting:

- Remove the rider's seat, see page 53.
- Insert the C-spanner (C-spanner and handle attached to the underside of the rider's seat) into the slots of the adjuster ring.

- Turn the adjuster ring anticlockwise (shown as direction A in the diagram) towards the left hand side of the motorcycle to increase spring preload.
- Turn the adjuster ring clockwise (shown as direction B in the diagram) towards the right hand side of the motorcycle to decrease spring preload.

#### Rear Suspension Settings

Preload Loading Condition	Rear Spring Preload <sup>1</sup>
Solo riding	1
Solo riding with accessories/ loading (not exceeding limits)	3
Rider and passenger	7
Rider and passenger with accessories/loading (not exceeding limits)	7

<sup>1</sup>Position 1 is minimum (fully clockwise) and position 7 is maximum (fully anticlockwise).

#### Note:

- This chart is only a guide. Setting requirements may vary for rider weight and personal preferences.
- The motorcycle is delivered from the factory with the preload adjuster set at position one.

### **Bank Angle Indicators**

# **Marning**

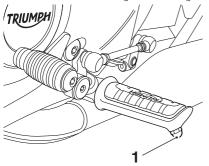
Use of a motorcycle with bank angle indicators worn beyond the maximum limit will allow the motorcycle to be banked to an unsafe angle.

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

Bank angle indicators are located on the rider's footrests.

Regularly check the bank angle indicators for wear.

Bank angle indicators must be replaced when they have reached the maximum wear limit of 5 mm in length remaining.



1. Bank angle indicator

### **Tyres**



The motorcycles are equipped with spoked wheels which require a tyre suitable for use with an inner tube.

# **Marning**

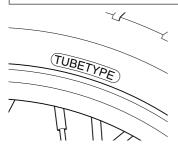
Inner tubes must only be used on motorcycles fitted with spoked wheels and with tyres marked 'TUBE TYPE'.

Some brands of approved tyres marked 'TUBELESS' may be suitable for use with an inner tube. Where this is the case, the tyre wall will be marked with text permitting the fitment of an inner tube (see the following illustrations).

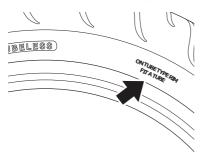
Use of an inner tube with a tyre marked 'TUBELESS', and NOT marked as suitable for use with an inner tube, or use of an inner tube on an alloy wheel marked 'SUITABLE FOR TUBELESS TYRES' will cause deflation of the tyre resulting in loss of motorcycle control and an accident.

# **M**Warning

Failure to use an inner tube in a spoked wheel will cause deflation of the tyre resulting in loss of motorcycle control and an accident.



### Typical Tyre Marking



Typical Tyre Marking - Tubeless Tyre Suitable For Use With An Inner Tube

#### Tyre Inflation Pressures

# **Warning**

Incorrect tyre inflation will cause abnormal tread wear and instability problems that may lead to loss of control and an accident.

Underinflation may result in the tyre slipping on, or coming off the rim. Overinflation will cause instability and accelerated tread wear.

Both conditions are dangerous as they may cause loss of control leading to an accident.

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

### Tyre Wear

As the tyre tread wears down, the tyre becomes more susceptible to punctures and failure. It is estimated that 90% of all tyre problems occur during the last 10% of tread life (90% worn). It is recommended that tyres are changed before they are worn to their minimum tread depth.

# Minimum Recommended Tread Depth

# **Marning**

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

When tubeless tyres, used without a tube, become punctured, leakage is often very slow. Always inspect tyres very closely for punctures. Check the tyres for cuts, embedded nails or other sharp objects. Operation with punctured or damaged tyres 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 tyres is dangerous and loss of motorcycle control or an accident could result.

Always consult your authorised Triumph dealer for tyre replacement, or for a safety inspection of the tyres.

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

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

### Tyre Replacement

All Triumph motorcycles are carefully and extensively tested in a range of riding conditions to ensure that the most effective tyre combinations are approved for use on each model. It is essential that approved tyres and inner tubes (if installed) fitted in approved combinations used are purchasing replacement items. The use of non-approved tyres and inner tubes, or approved tyres and inner tubes in non-approved combinations, may lead to motorcycle instability, loss of control and an accident

A list of approved tyres and inner tubes specific to your motorcycle are available from your authorised Triumph dealer, or on the Internet at www.triumph.co.uk. Always have tyres and inner tubes fitted and balanced by your authorised Triumph dealer who has the necessary training and skills to ensure safe, effective fitment.

Different wheel speeds, caused by nonapproved tyres, can affect the function of the ABS computer.

# **Warning**

The ABS system operates by comparing the relative speed of the front and rear wheels. Use of non-recommended tyres 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.

# **Marning**

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

# **Marning**

Inner tubes must only be used on motorcycles fitted with spoked wheels and with tyres marked 'TUBE TYPE'.

Some brands of approved tyres marked 'TUBELESS' may be suitable for use with an inner tube. Where this is the case, the tyre wall will be marked with text permitting the fitment of an inner tube.

Use of an inner tube with a tyre marked 'TUBELESS', and NOT marked as suitable for use with an inner tube, or use of an inner tube on an alloy wheel marked 'SUITABLE FOR TUBELESS TYRES' will cause deflation of the tyre resulting in loss of motorcycle control and an accident.

# **Marning**

Do not install tube-type tyres on tubeless rims. The bead will not seat and the tyres could slip on the rims, causing rapid tyre deflation that may result in a loss of vehicle control and an accident. Never install an inner tube inside a tubeless tyre without the appropriate marking. This will cause friction inside the tyre and the resulting heat build-up may cause the tube to burst resulting in rapid tyre deflation, loss of vehicle control and an accident.

### **Marning**

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

# **Marning**

Tyres and inner tubes 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 tyre.

Tyres and inner tubes must be replaced after such use as continued use of a damaged tyre or inner tube may lead to instability, loss of motorcycle control and an accident.

# **Marning**

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 tyre or inner tube replacement, see your authorised Triumph dealer.

Only use self-adhesive weights. Clip on weights may damage the wheel, tyre or inner tube resulting in tyre deflation, loss of motorcycle control and an accident.

# **Marning**

When replacement tyres or inner tubes are required, consult your authorised Triumph dealer who will arrange for the tyres and inner tubes to be selected, in a correct combination, from the approved list and fitted according to the tyre and inner tube manufacturer's instructions.

When tyres and inner tubes are replaced, allow time for the tyres and inner tubes to seat to the rim (approximately 24 hours). During this seating period, ride cautiously as an incorrectly seated tyre or inner tube could cause instability, loss of motorcycle control and an accident.

### Warning Continued

Initially, the new tyres and inner tubes will not produce the same handling characteristics as the worn tyres and inner tubes and the rider must allow adequate riding distance (approximately 100 miles (160 km)) to become accustomed to the new handling characteristics.

24 hours after fitting, the tyre pressures must be checked and adjusted, and the tyres and inner tubes examined for correct seating. Rectification must be carried out as necessary. The same checks and adjustments must also be carried out when 100 miles (160 km) have been travelled after fitting.

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

### **Battery**

# **Marning**

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.

# **Marning**

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.

### **Battery Removal**

# **Marning**

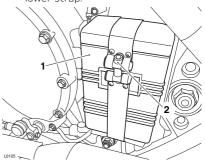
Before starting work, ensure the motorcycle is stabilised and adequately supported. This will help prevent it from falling and causing injury to the operator or damage to the motorcycle.

# **Marning**

Make sure 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.

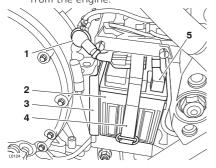
To remove the battery:

 Remove the fixing securing the battery cover strap and remove the lower strap.



- 1. Battery cover
- 2. Fixing

- Remove the battery cover by pulling the cover away from the motorcycle. Leave the grommets attached to the battery cover.
- Disconnect the negative (black) lead from the engine ground connection bracket. Do not remove the bracket from the engine.



- 1. Engine ground connection
- 2. Battery
- 3. Battery strap guide
- 4. Battery strap
- 5. Battery positive terminal
  - Release the battery strap and partially slide the battery out of the battery tray in order to gain access to the positive battery connection.
  - Disconnect the positive (red) lead from the battery.
  - Remove the battery and battery strap guide from the battery tray, noting the routing of the negative (black) battery lead for installation.

### **Battery Disposal**

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

#### **Battery Maintenance**

### **Warning**

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.

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

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 (see the following paragraphs).

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

#### **Battery Discharge**

### **A** Caution

The charge level in the battery must be maintained to maximise 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 charged. However, fully 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.

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**

### **Marning**

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.

### **A** Caution

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

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

Should the battery voltage fall below 12.7 Volts, the battery should be charged using a Triumph approved battery charger. Always remove the battery from the motorcycle and 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**

### **Marning**

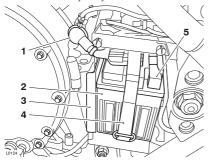
Before starting work, make sure that the motorcycle is stabilised and adequately supported. This will help prevent it from falling and causing personal injury and/or damage to the motorcycle.

### **Marning**

Make sure 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.

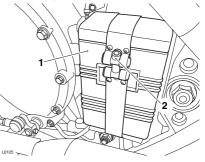
To install the battery:

- Make sure the battery strap is correctly positioned on the hook at the rear of the battery cage.
- Position the battery strap guide and battery in the battery tray, routing the negative (black) battery lead as noted during removal.
- Connect the positive (red) battery lead to the battery and tighten to
   4.5 Nm. Push the battery fully into the battery tray.



- 1. Engine ground connection
- 2. Battery
- 3. Battery strap quide
- 4. Battery strap
- 5. Battery positive connection

- Secure the battery with the battery strap.
- Connect the negative (black) battery lead to the engine ground connection on the frame and tighten to 6 Nm.
- Install the battery cover, lower edge first. Make sure that the rubber seals are positioned correctly.
- Secure the strap with the fixing and tighten to 3 Nm.



- 1. Battery cover
- 2. Fixing

#### Fuse Box

### **Marning**

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.

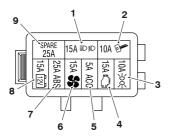
Use of an incorrect fuse could lead to an electrical problem, resulting in motorcycle damage, loss of motorcycle control and an accident.

N	0	ŀ٠	١.

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

The fuse box is located behind the left hand side panel.

To gain access to the fuse box, remove the left hand side panel (see page 51).



**Fuse Box** 

Position	Circuit Protected	Rating (Amps)
1	Dip and high headlight beams	15
2	Ignition switch, starter circuit	10
3	Auxiliary lights	10
4	Engine management system	15
5	Accessory socket	5
6	Cooling fan	15
7	ABS	25
8	Instruments	15
9	Spare	25

The 30 Amp main fuse is in a separate fuse box also located behind the left hand side panel.

#### Headlights



### **A** Warning

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

Make sure that the beam is adjusted to illuminate the road surface sufficiently far ahead without dazzling oncoming traffic. An incorrectly adjusted headlight may impair visibility causing an accident.

### **Marning**

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

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

### **A** Caution

Do not cover the headlight or lens with any item likely to obstruct air flow to, or prevent heat escaping from, the headlight lens.

Covering the headlight lens during operation with items of clothing, luggage, adhesive tape, devices intended to alter or adjust the headlight beam or non genuine headlight lens covers will cause the headlight lens to overheat and distort, causing irreparable damage to the headlight assembly.

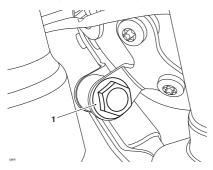
Damage caused by overheating is not considered a manufacturing defect and will not be covered under warranty.

If the headlight must be covered during use - such as taping of the headlight lens required during closed-course conditions - the headlight must be disconnected.

#### Headlight Adjustment

#### Note:

 Always make sure the handlebars are in the straight ahead position when checking and adjusting the headlight beam setting.



#### 1. Headlight assembly mounting bolt

Vertical adjustment of the headlight beam is controlled by loosening the headlight assembly mounting bolt and altering the position of the headlight assembly.

Retighten the fixings after adjustment to **26 Nm**.

## Headlight/Position Light Bulb Replacement

## Bonneville Bobber Black and Bonneville Speedmaster

The headlight unit is a sealed, maintenance-free LED unit.

#### Bonneville Bobber Only

### **M**Warning

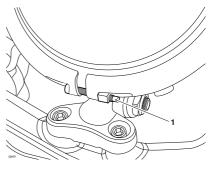
The bulbs become hot during use. Always allow sufficient time for the bulbs to cool before handling. Avoid touching the glass part of the bulb. If the glass is touched or gets dirty, clean with alcohol before reuse.

### **A** 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 Catalogue.

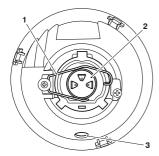
When possible always have replacement headlight bulbs installed by an authorised Triumph dealer.



1. Headlight rim fixing

To replace the headlight and/or position light bulb:

- Disconnect the battery, negative (black) lead first.
- · Remove the headlight rim fixing.
- Detach the headlight and rim assembly from the headlight bowl.
- While supporting the light unit, disconnect the multipin electrical connector from the headlight bulb and carefully remove the position light bulb from the light unit.
- · Remove the rubber dust cover.



- 1. Wire retainer
- 2. Headlight bulb
- 3. Position bulb location
  - Unhook the headlight bulb's wire retainer.
  - The headlight bulb can now be removed.
  - Remove the position bulb from its bulb holder if it needs replacing.
  - Installation is the reversal of removal.
  - Tighten the headlight rim fixing to 2 Nm.

#### Rear Light

The LED rear light units are sealed, maintenance free LED units. The rear light assembly must be replaced in the event of the failure of the rear light.

### Direction Indicator Lights -Bulb Replacement

The direction indicator light units are sealed, maintenance-free LED units.

#### **CLEANING AND STORAGE**

#### 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.

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

### **A** Caution

Do not spray any water at all near the air intake duct. The air intake duct is normally located under the rider's seat, under the fuel tank or near the steering head. Any water sprayed in this area could enter the airbox and engine, causing damage to both items.

### **A** 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.

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

- Instruments:
- · Brake cylinders and brake calipers;
- Under the fuel tank:
- · Air intake duct:
- Headstock bearings;
- · Wheel bearings.

#### 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.

#### 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 motorcycle with a sponge or soft cloth. Do not use abrasive scouring pads or steel wool. They will damage the finish.

Rinse the motorcycle thoroughly with cold water.

#### After Washing

### **Marning**

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.

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

Lubricate the pivots, bolts and nuts.

Test the brakes before motorcycle operation.

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

Start the engine and run it for 5 minutes. Make sure that there is adequate ventilation for the exhaust fumes.

#### Care of Gloss Paintwork

Gloss paintwork should be washed and dried as described above, then protected using a high quality automotive polish. Always follow the manufacturer's instructions and repeat regularly to maintain your motorcycle's appearance.

#### Care of Matt Paintwork

Matt paintwork requires no greater care than that already recommended for high gloss paintwork.

- Do not use any polish or wax on matt paintwork.
- · Do not try and polish out scratches.

### Aluminium Items - not Lacquered or Painted

Items such as brake and clutch levers, wheels, engine covers, engine cooling fins, upper and lower yokes and throttle bodies 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 aluminium parts not protected by paint or lacquer, and for guidance on how to clean those items.

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

Clean aluminium 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 Chrome and Stainless Steel Items

All chrome and stainless steel parts of your motorcycle must be cleaned regularly to avoid a deterioration of its appearance.

#### Washing

Wash as previously described.

#### Drying

Dry the chrome and stainless steel parts as far as possible with a soft cloth or chamois leather.

#### **Protecting**



The use of products containing silicone will cause discolouration of the chrome and stainless steel parts and must not be used. Similarly, the use of abrasive cleaners will damage the finish and must not be used.

When the chrome and stainless steel is dry, apply a suitable proprietary chrome cleaner on to the surface, following the manufacturer's instructions.

It is recommended that regular protection be applied to the motorcycle as this will both protect and enhance its appearance.

#### **Black Chrome**

Items such as headlight bowls and mirrors 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 black chrome parts. Maintain the appearance of black chrome items by rubbing a small amount of light oil into the surface.

## 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 fibre components; matt painted exhaust systems should be cleaned as above, noting the care instructions in the Matt Paintwork section previously.

#### Note:

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

#### Washing

Wash as previously described.

Make sure that no soap or water enters the exhausts.

#### **Drying**

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

#### Protecting



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

When the exhaust system is dry, apply a suitable proprietary motorcycle protection spray onto the surface, following the manufacturer's instructions.

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

#### Seat Care

### **A** Caution

Use of chemicals or high pressure spray washers is not recommended for cleaning the seat.

Using chemicals or high pressure spray washers may damage the seat cover.

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

## Windscreen Cleaning (if fitted)





### **Marning**

Never attempt to clean the windscreen while the motorcycle is in motion as releasing the handlebars may cause loss of motorcycle control and an accident.

Operation of the motorcycle with a damaged or scratched windscreen will reduce the rider's forward vision. Any such reduction in forward vision is dangerous and may lead to loss of motorcycle control and an accident.

### **A** Caution

Corrosive chemicals such as battery acid will damage the windscreen. Never allow corrosive chemicals to contact the windscreen.

### **A** Caution

Products such as window cleaning fluids, insect remover, rain repellent, scouring compounds, petrol or strong solvents such as alcohol, acetone, carbon tetrachloride, etc. will damage the windscreen.

Never allow these products to contact the windscreen.

Clean the windscreen with a solution of mild soap or detergent and cold water.

After cleaning, rinse well and then dry with a soft, lint-free cloth.

If the transparency of the windscreen is reduced by scratches or oxidation which cannot be removed, the windscreen must be replaced.

#### Care of Leather Products

We recommend that you periodically clean your leather products with a damp cloth and allow them to dry naturally at room temperature. This will maintain the appearance of the leather and ensure the long life of your product.

Your Triumph leather product is a natural product and lack of care can result in damage and permanent wear. Follow these simple instructions and give your leather product the respect it deserves:

- Do not use household cleaning products, bleach, detergents containing bleach or any kind of solvent to clean your leather product.
- Do not immerse your leather product in water.
- Avoid direct heat from fires and radiators which can dry out and distort the leather.
- Do not leave your leather product in direct sunlight for prolonged periods of time.
- Do not dry your leather product by applying direct heat to it at any time.
- If your leather product does get wet, absorb any excess water with a soft clean cloth then leave the product to dry naturally at room temperature.
- Avoid exposure of your leather product to high levels of salt, for example sea/salt water or road surfaces that have been treated during the winter for ice and snow.

- If exposure to salt is unavoidable, clean your leather product immediately after each exposure using a damp cloth then leave the product to dry naturally at room temperature.
- Gently clean any minor marks with a damp cloth then leave the product to dry naturally at room temperature.
- Place your leather product in a fabric bag or cardboard box to protect it when in storage. Do not use a plastic bag.

### Preparation for Storage

Clean and dry the entire vehicle thoroughly.

Fill the fuel tank with the correct grade of unleaded fuel and add a suitable fuel stabiliser (if available), following the fuel stabiliser manufacturer's instructions.

### **Marning**

Petrol 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 one of the spark plugs from each cylinder and put several drops (5 ml) 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 12 Nm.

Change the engine oil and filter (see page  $\bf 80$ ).

Check and if necessary correct the tyre 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 tyres.)

Spray rust inhibiting oil (there are a host of products on the market and your authorised Triumph 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.

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 83).

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 110).

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.

### Preparation after Storage

Install the battery (if removed) (see page 111).

If the motorcycle has been stored for more than four months, change the engine oil (see page **80**).

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 **12 Nm**, and start the engine.

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

Check and if necessary adjust the drive chain tension (see page **89**).

Clean the entire vehicle thoroughly.

Check the brakes for correct operation.

Test ride the motorcycle at low speeds.

### **SPECIFICATIONS**

#### Bonneville Bobber and Bonneville Bobber Black

#### Dimensions, Weights and Performance

A list of model specific dimensions, weights and performance figures is available from your authorised Triumph dealer, or on the Internet at www.triumph.co.uk.

Payload Maximum Payload	<b>Bonneville Bobber</b> 125 kg	<b>Bonneville Bobber Black</b> 125 kg
Engine	Bonneville Bobber	Bonneville Bobber Black
Type	Liquid cooled parallel twin, 270° firing angle	Liquid cooled parallel twin, 270° firing angle
Displacement	1,200 cc	1,200 cc
Bore x Stroke	97.6 x 80 mm	97.6 x 80 mm
Compression Ratio	10:1	10:1
Cylinder Numbering	Left to Right	Left to Right
Cylinder Sequence	1-2	1-2
Firing Order	1-2	1-2
Starting System	Electric Starter	Electric Starter
Lubrication	Bonneville Bobber	Bonneville Bobber Black
<b>Lubrication</b> Lubrication System	Bonneville Bobber Wet sump	Bonneville Bobber Black Wet sump
Lubrication System		
Lubrication System Engine Oil Capacities:	Wet sump	Wet sump
Lubrication System Engine Oil Capacities: Dry Fill	Wet sump  3.8 litres	Wet sump 3.8 litres
Lubrication System Engine Oil Capacities: Dry Fill Oil/Filter Change	Wet sump  3.8 litres  3.4 litres	Wet sump  3.8 litres  3.4 litres
Lubrication System Engine Oil Capacities: Dry Fill Oil/Filter Change Oil Change Only	Wet sump  3.8 litres  3.4 litres  3.2 litres	Wet sump  3.8 litres  3.4 litres  3.2 litres
Lubrication System Engine Oil Capacities: Dry Fill Oil/Filter Change Oil Change Only Cooling	Wet sump  3.8 litres 3.4 litres 3.2 litres  Bonneville Bobber	Wet sump  3.8 litres 3.4 litres 3.2 litres  Bonneville Bobber Black
Lubrication System Engine Oil Capacities: Dry Fill Oil/Filter Change Oil Change Only  Cooling Coolant Type	Wet sump  3.8 litres 3.4 litres 3.2 litres  Bonneville Bobber  Triumph HD4X Hybrid OAT 50/50 (pre-mixed as	Wet sump  3.8 litres 3.4 litres 3.2 litres  Bonneville Bobber Black Triumph HD4X Hybrid OAT 50/50 (pre-mixed as

Fuel System Fuel Type Fuel Pump Fuel Pressure (nominal)	Bonneville Bobber Electronic Fuel Injection Submerged Electronic 3.5 bar	Bonneville Bobber Black Electronic Fuel Injection Submerged Electronic 3.5 bar
<b>Tank Capacity</b> Type Tank Capacity	<b>Bonneville Bobber</b> 91 RON unleaded 9.1 litres	<b>Bonneville Bobber Black</b> 91 RON unleaded 9.1 litres
<b>Ignition</b> Ignition System Spark Plug Spark Plug Gap	Bonneville Bobber Digital Inductive NGK LMAR8A-9 0.9 mm +0.0/-0.1 mm	Bonneville Bobber Black Digital Inductive NGK LMAR8A-9 0.9 mm +0.0/-0.1 mm
Transmission Transmission Type Clutch Type Final Drive Chain Primary Drive Ratio Gear Ratio:	Bonneville Bobber 6 speed, constant mesh Wet, multiplate EK 525 MVXZ2, 108 link 93/74 (1.26)	Bonneville Bobber Black 6 speed, constant mesh Wet, multiplate EK 525 MVXZ2, 108 link 93/74 (1.26)
1st 2nd 3rd 4th 5th 6th Final Drive Ratio	49/14 (3.5) 45/18 (2.5) 37/20 (1.85) 37/25 (1.48) 35/27 (1.3) 34/29 (1.17) 37/17 (2.18)	49/14 (3.5) 45/18 (2.5) 37/20 (1.85) 37/25 (1.48) 35/27 (1.3) 34/29 (1.17) 37/17 (2.18)

### **Marning**

Use the recommended tyres ONLY in the combinations given. Do not mix tyres from different manufacturers or mix different specification tyres from the same manufacturers as this may result in loss of motorcycle control and an accident.

#### **Approved Tyres**

A list of approved tyres specific to these models is available from your authorised Triumph dealer, or on the Internet at www.triumph.co.uk.

Tyres	Bonneville Bobber	Bonneville Bobber Black
Tyre Sizes:		
Front	100/90-19	MT90B16
Rear	150/80 R16	150/80 R16
Tyre Pressures (Cold):		
Front	2.2 bar (32 lbs/in <sup>2</sup> )	2.8 bar (33 lbs/in <sup>2</sup> )
Rear	2.9 bar (42 lbs/in <sup>2</sup> )	2.6 bar (38 lbs/in <sup>2</sup> )
Electrical Equipment	Bonneville Bobber	Bonneville Bobber Black
Battery Type	YTX9-BS	YTX9-BS
Battery Rating	12 Volt, 8Ah	12 Volt, 8Ah
Alternator	25 Amps at 1,000 rpm	25 Amps at 1,000 rpm
	46.5 Amps at 3,000 rpm	46.5 Amps at 3,000 rpm
Headlight	12 Volt, 60/55 Watt, H4 Halogen	12 Volt, 60/55 Watt, H4 Halogen
Position Light	12 Volt, 5 Watt	12 Volt, 5 Watt
Tail/Brake Light	LED	LED
License Plate Light	LED	LED
Directional Indicator Lights	LED	LED
Electrical Equipment	Bonneville Bobber	Bonneville Bobber Black
Battery Type	YTX9-BS	YTX9-BS
Battery Rating	12 Volt, 8Ah	12 Volt, 8Ah
Alternator	25 Amps at 1,000 rpm	25 Amps at 1,000 rpm
	46.5 Amps at 3,000 rpm	46.5 Amps at 3,000 rpm
Headlight	12 Volt, 60/55 Watt, H4 Halogen	12 Volt, 60/55 Watt, H4 Halogen
Position Light	12 Volt, 5 Watt	12 Volt, 5 Watt
Tail/Brake Light	LED	LED
License Plate Light	LED	LED
Directional Indicator Lights	LED	LED
Frame	Bonneville Bobber	Bonneville Bobber Black
Rake	25.7°	25.4°
Trail	87 mm (3.5 in)	92 mm (3.7 in)

Tightening Torques	Bonneville Bobber	Bonneville Bobber Black
Battery Terminals	4.5 Nm	4.5 Nm
Battery Strap	3 Nm	3 Nm
Chain Adjuster Lock Nuts	20 Nm	20 Nm
Chain Guard - Front	9 Nm	9 Nm
Chain Guard - Rear	30 Nm	30 Nm
Clutch Lever Nut	3.4 Nm	3.4 Nm
Headlight Rim Fixing	2 Nm	2 Nm
Oil Filter	10 Nm	10 Nm
Spark Plug	12 Nm	12 Nm
Sump Plug	25 Nm	25 Nm
Rear Wheel Spindle Nut	110 Nm	110 Nm
Seat Bolts	48 Nm	48 Nm
Seat Nuts	38 Nm	38 Nm

#### Fluids and Lubricants

#### Bonneville Bobber and Bonneville Bobber Black

Bearings and Pivots

Grease to NLGI 2 specification DOT 4 brake fluid

Brake Fluid

Triumph HD4X Hybrid OAT coolant (pre-mixed)

Chain spray suitable for XW-ring chains

Coolant Triumph HD4X Hybrid

Drive Chain 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) engine oil, sold as Castrol Power RS Racing 4T 10W-40 (fully synthetic) in some

countries.

#### **SPECIFICATIONS**

#### Bonneville Speedmaster

#### Dimensions, Weights and Performance

A list of model specific dimensions, weights and performance figures is available from your authorised Triumph dealer, or on the Internet at www.triumph.co.uk.

#### Payload Bonneville Speedmaster

Maximum Payload 210 kg

#### Engine Bonneville Speedmaster

Type Liquid cooled parallel twin, 270° firing angle

Displacement 1,200 cc

Bore  $\times$  Stroke 97.6  $\times$  80 mm

Compression Ratio 10:1

Cylinder Numbering Left to Right

Cylinder Sequence 1-2 Firing Order 1-2

Starting System Electric Starter

#### Lubrication Bonneville Speedmaster

Lubrication System Wet sump

Engine Oil Capacities:

Dry Fill 3.8 litres
Oil/Filter Change 3.4 litres
Oil Change Only 3.2 litres

#### Cooling Bonneville Speedmaster

Coolant Type Triumph HD4X Hybrid OAT

Water/Coolant Ratio 50/50 (pre-mixed as supplied by Triumph)

Coolant Capacity 1.558 litres
Thermostat Opens 88°C +/- 2°C

# Fuel SystemBonneville SpeedmasterFuel TypeElectronic Fuel InjectionFuel PumpSubmerged Electronic

Fuel Pressure (nominal) 3.5 bar

Tank Capacity Bonneville Speedmaster

Fuel Type 91 RON unleaded

Tank Capacity 12 litres

Ignition Bonneville Speedmaster

Ignition System Digital Inductive
Spark Plug NGK LMAR8A-9
Spark Plug Gap 0.9 mm +0.0/-0.1 mm

Transmission Bonneville Speedmaster

Transmission Type 6 speed, constant mesh

Clutch Type Wet, multiplate

Final Drive Chain EK 525 MVXZ2, 108 link

Primary Drive Ratio 93/74 (1.26)

Gear Ratio:

 1st
 49/14 (3.5)

 2nd
 45/18 (2.5)

 3rd
 37/20 (1.85)

 4th
 37/25 (1.48)

 5th
 35/27 (1.3)

 6th
 34/29 (1.17)

 Final Drive Ratio
 37/17 (2.18)

### **Marning**

Use the recommended tyres ONLY in the combinations given. Do not mix tyres from different manufacturers or mix different specification tyres from the same manufacturers as this may result in loss of motorcycle control and an accident.

#### **Approved Tyres**

A list of approved tyres specific to these models is available from your authorised Triumph dealer, or on the Internet at www.triumph.co.uk.

Tyres Bonneville Speedmaster

Tyre Sizes:

Front MT90B16

Rear 150/80 R16

Tyres Bonneville Speedmaster

Tyre Pressures (Cold):

Front 2.8 bar (33 lbs/in²) Rear 2.5 bar (36 lbs/in²)

Electrical Equipment Bonneville Speedmaster

Battery Type YTX9-BS
Battery Rating 12 Volt, 8Ah

Alternator 25 Amps at 1,000 rpm

46.5 Amps at 3,000 rpm

Headlight 12 Volt, 60/55 Watt, H4 Halogen

Position Light 12 Volt, 5 Watt

Tail/Brake Light LED
License Plate Light LED
Directional Indicator Lights LED

Frame Bonneville Speedmaster

Rake 25.3°

Trail 91.4 mm (3.6 in)

Tightening Torques Bonneville Speedmaster

**Battery Terminals** 4.5 Nm Battery Strap 3 Nm Chain Adjuster Lock Nuts 20 Nm Chain Guard - Front 9 Nm Chain Guard - Rear 30 Nm Clutch Lever Nut 3.5 Nm Oil Filter 10 Nm Spark Plug 12 Nm Sump Plug 25 Nm Rear Wheel Spindle Nut 110 Nm Passenger Seat Fixing 9 Nm

Fluids and Lubricants	Bonneville Speedmaster
-----------------------	------------------------

Bearings and Pivots Grease to NLGI 2 specification

Brake Fluid DOT 4 brake fluid

Coolant Triumph HD4X Hybrid OAT coolant (pre-mixed)

Drive Chain Chain spray suitable for XW-ring chains

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) engine oil, sold as Castrol Power RS Racing 4T 10W-40 (fully synthetic) in some

countries.

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