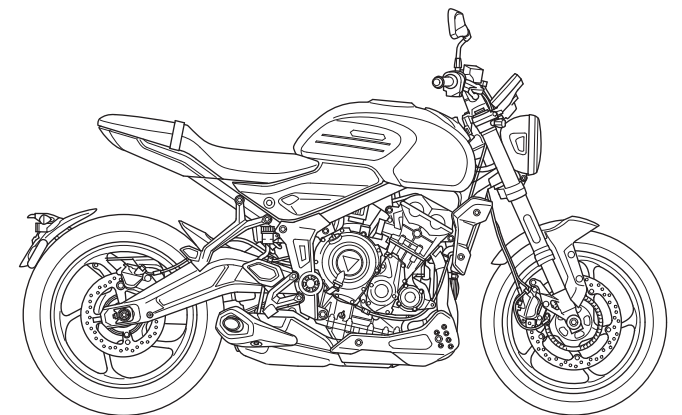




Owner's Handbook

Trident



This handbook contains information on the Triumph Trident 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.

Foreword.....	3
Safety First.....	7
Warning Labels.....	14
Parts Identification.....	16
Serial Numbers.....	19
General Information.....	21
How to Ride the Motorcycle.....	67
Accessories, Loading and Passengers.....	81
Maintenance.....	85
Cleaning and Storage.....	127
Specifications.....	139
Index.....	143
Approval Information.....	147

Foreword

Warnings, Cautions and Notes

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

Warning

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

Caution

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

Note

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

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 and/or text.

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

For the location of all labels showing this symbol, see the Warning Label Locations section of this Owner's Handbook. 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:

1. 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,
2. the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

Among those acts presumed to constitute tampering are the acts listed below:

- Removal of, or puncturing the muffler, baffles, header pipes or any other component which conducts exhaust gases.
- Removal of, or puncturing of any part of the intake system.
- Lack of proper maintenance.
- Replacing any moving parts of the vehicle, or parts of the exhaust or intake system, with parts other than those specified by the manufacturer.

Owner's Handbook

Warning

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

All riders must read this Owner's Handbook and all other instructions which are supplied with your motorcycle, before riding, in order to become thoroughly familiar with the correct operation of your motorcycle's controls, its features, capabilities and limitations.

Do not lend your motorcycle to others as riding when not familiar with your motorcycle's controls, features, capabilities and limitations can lead to an accident.

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 Owner's 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 Owner's Handbook is available from your local dealer in:

- English
- US English
- Arabic
- Chinese
- Dutch
- French
- German
- Italian
- Japanese
- Portuguese
- Spanish
- Swedish
- Thai
- Finnish (available online from www.triumphmotorcycles.com).

The languages available for this Owner's Handbook are dependent on the specific motorcycle model and country.

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.

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Safety First

The Motorcycle

Warning

This motorcycle is designed for on-road use only. It is not suitable for off-road use.

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

Warning

This motorcycle is not designed to tow a trailer or be fitted with a sidecar.

Fitting a sidecar and/or a trailer may result in loss of control and an accident.

Warning

This motorcycle is fitted with a catalytic converter below the engine, which along with the exhaust system reaches a very high temperature during engine operation.

Flammable materials such as grass, hay/straw, leaves, clothing and luggage etc. could ignite if allowed to come into contact with any part of the exhaust system and catalytic converter.

Always make sure that flammable materials are not allowed to contact the exhaust system or catalytic converter.

Warning

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

The total weight of the rider, accessories and luggage must not exceed the maximum load limit stated in the Specifications section.

Safety First

Fuel and Exhaust Fumes

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.

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 the motorcycle in the open air or in an area with adequate ventilation.

Helmet and Clothing



Warning

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

During off-road use (on models suitable for off-road use), the rider must always wear appropriate clothing including trousers and boots.

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.

Warning

A helmet is one of the most important pieces of riding gear as it offers protection against head injuries. You and your passenger's helmet should be carefully chosen and should fit you or your passenger's head comfortably and securely. A brightly 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.

Parking

Warning

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.

Safety First

Parts and Accessories

Warning

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

Warning

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.

Warning

Make sure 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.

Warning

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

Warning

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

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

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

Warning

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.

Warning

Always ride defensively and wear the protective equipment mentioned elsewhere in this foreword.

Remember, in an accident, a motorcycle does not give the same impact protection as a car.

Warning

This Triumph motorcycle should be operated within the legal speed limits for the particular road travelled.

Operating a motorcycle at high speeds can be potentially dangerous since the time available to react to given traffic situations is greatly reduced as road speed increases.

Always reduce speed in potentially hazardous driving conditions such as bad weather or heavy traffic.

Warning

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

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

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

Safety First

Handlebars and Footrests

Warning

The rider must maintain control of the motorcycle 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.

Warning

The rider and passenger (if applicable) must always use the footrests provided, during operation of the motorcycle.

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

Warning

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 indicators 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.

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.

Warning

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.

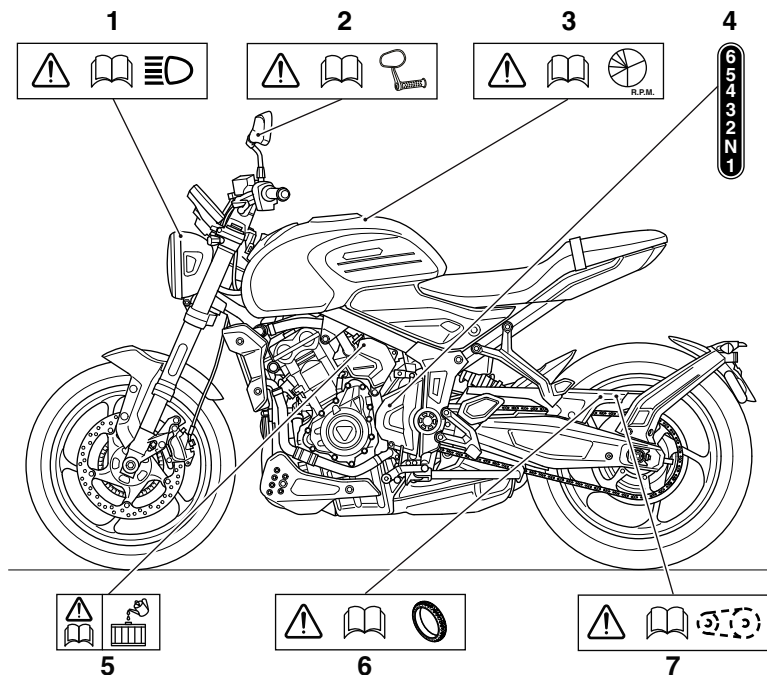
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Warning Labels

Warning Labels

Warning Label Locations

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.



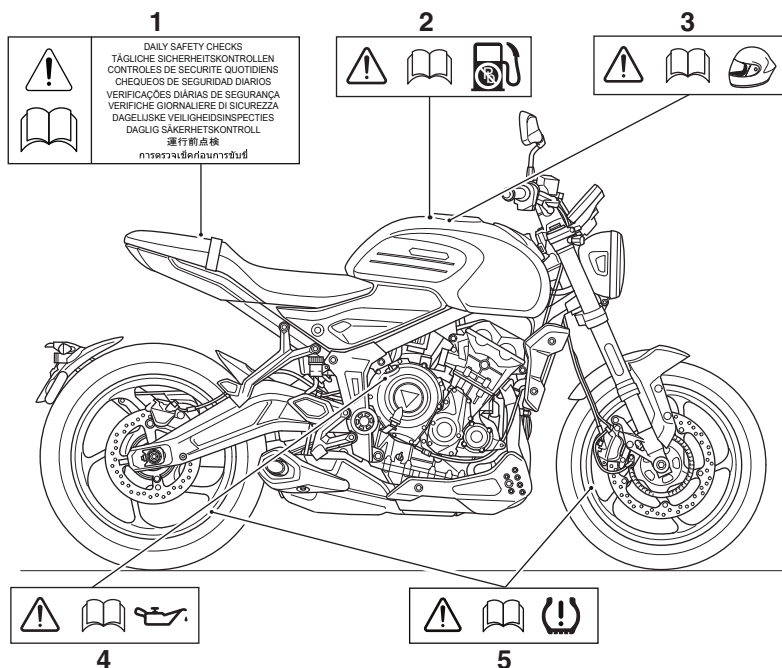
1. Headlights (page 125)
2. Mirrors (page 109)
3. Running-in (page 64)
4. Gears (page 71)

5. Coolant (page 94)
6. Tyres (page 115)
7. Drive Chain (page 100)

Warning Label Locations (continued)

⚠ 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. Therefore, any attempt to remove the warning labels will cause damage to the paintwork or bodywork.

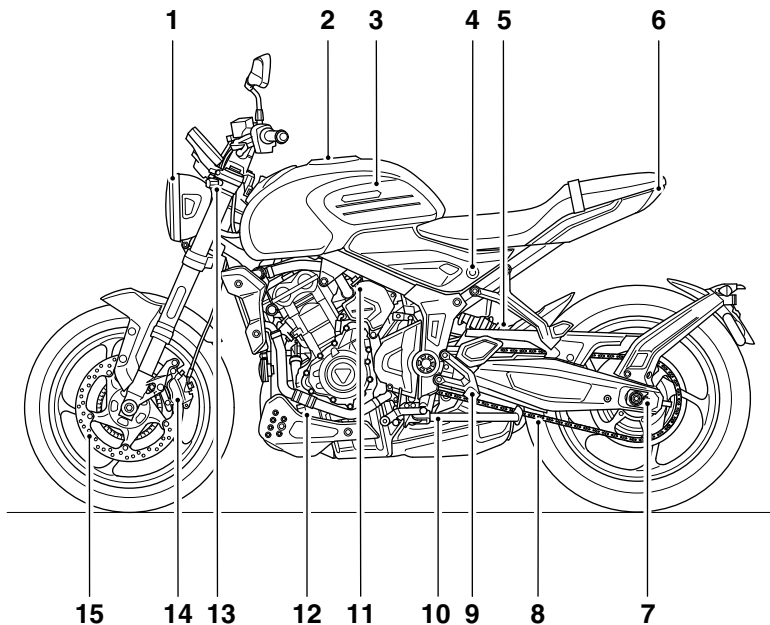


1. Daily Safety Checks (page 65)
2. Unleaded Fuel (page 54)
3. Helmet (page 8)

4. Engine Oil (page 91)
5. Tyre Pressure Monitoring System (TPMS) (if fitted) (page 116)

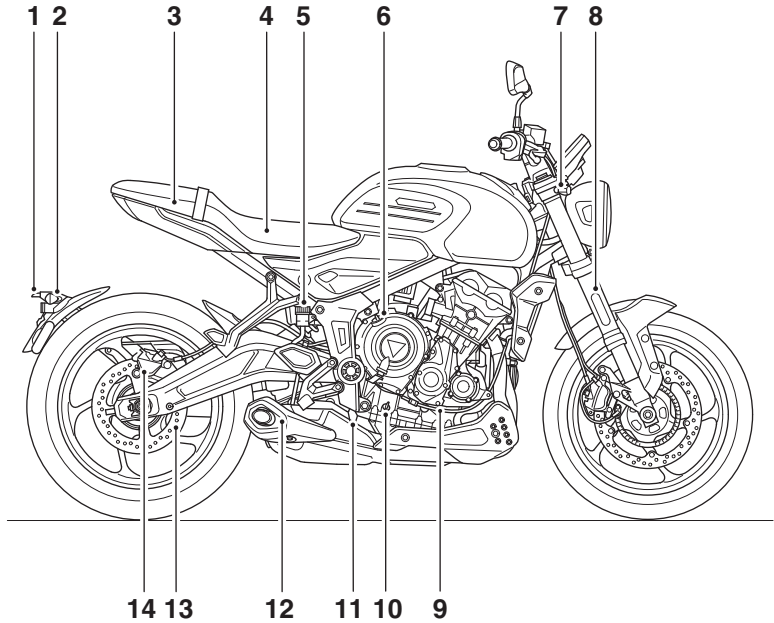
Parts Identification

Parts Identification



- | | |
|-------------------------|-------------------------------|
| 1. Headlight | 9. Gear change pedal |
| 2. Fuel filler cap | 10. Side stand |
| 3. Fuel tank | 11. Coolant expansion tank |
| 4. Seat lock | 12. Oil filter |
| 5. Rear suspension unit | 13. Front direction indicator |
| 6. Rear light | 14. Front brake caliper |
| 7. Drive chain adjuster | 15. Front brake disc |
| 8. Drive chain | |

Parts Identification-Continued

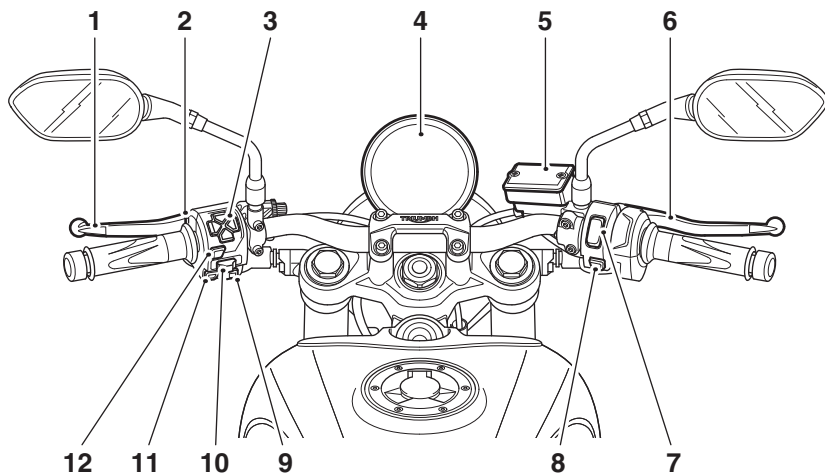


1. Licence plate light
2. Rear direction indicator
3. Tool kit (under seat)
4. Battery (under seat)
5. Rear brake fluid reservoir
6. Oil filler cap
7. Front direction indicator

8. Front fork
9. Clutch cable
10. Engine oil level dipstick
11. Rear brake pedal
12. Silencer
13. Rear brake disc
14. Rear brake caliper

Parts Identification

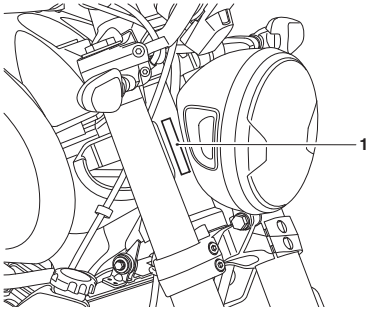
Rider View Parts Identification



- | | |
|-----------------------------------|--------------------------------|
| 1. Clutch lever | 7. Engine start/stop switch |
| 2. High beam/pass button | 8. Hazard warning light switch |
| 3. Instruments navigation buttons | 9. Mode button |
| 4. Instruments | 10. Direction indicator switch |
| 5. Front brake fluid reservoir | 11. Horn button |
| 6. Front brake lever | 12. Select button |

Serial Numbers

Vehicle Identification Number (VIN)

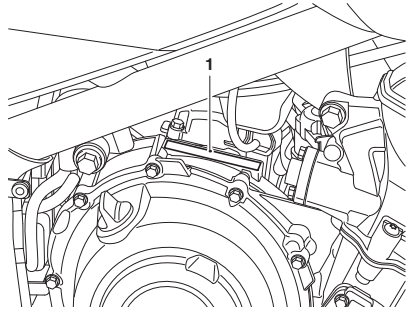


1. Vehicle identification number

The Vehicle Identification Number (VIN) is stamped into the steering head area of the frame. It is also displayed on a label attached to the left hand side of the frame, adjacent to the radiator cowl.

Record the vehicle identification number in the space provided below.

Engine Serial Number



1. Engine serial number

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

Record the engine serial number in the space provided below.

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General Information

Table of Contents

Hand Controls	23
Ignition Switch/Steering Lock	23
Ignition Key	24
Engine Immobiliser	25
Brake Lever	25
Clutch Lever	26
Right Handlebar Switches	26
Left Handlebar Switches	27
Throttle Control	28
Instruments	30
Instrument Display Layout	31
Warning Lights	32
Speedometer	34
Odometer	34
Tachometer	34
Fuel Gauge	35
Coolant Temperature Gauge	35
Service	36
Trip Meters	37
Riding Modes	37
Fuel Consumption	39
Tyre Pressure Monitoring System (TPMS) (if fitted)	40
Brightness	40
Gear Position	41
Warning Messages Review	42
Main Menu	42
Riding Modes	43
Bike Setup Menu	44
Trip Setup Menu	46
Display Setup Menu	48
Reset to Defaults	53
Fuel	54
Fuel Tank Cap	55
Filling the Fuel Tank	56

General Information

Traction Control (TC)	57
Traction Control Settings	57
Tyre Pressure Monitoring System (TPMS) (if fitted)	58
Tyre Pressures	58
Tyre Pressure Warning Light (if TPMS is fitted)	59
Tyre Pressure Sensor Batteries	60
Tyre Pressure Sensor Serial Number	60
Replacement Tyres	60
Side Stand	61
Seat	62
Seat Lock	62
Seat Removal and Installation	63
Owner's Handbook and Tool Kit	63
Running-In	64
Daily Safety Checks	65

Hand Controls

Ignition Switch/Steering Lock

Warning

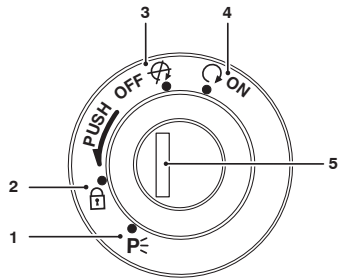
For reasons of security and safety, always turn the ignition to the OFF or PARK position and remove the key when leaving the motorcycle unattended.

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.

Warning

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

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



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

Switch Operation

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

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

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

General Information

Note

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

Ignition Key

Warning

Additional keys, key rings/chains or items attached to the ignition key may interfere with the steering, 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.

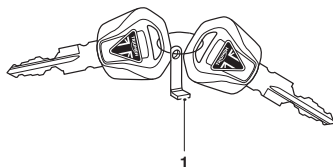
Caution

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.

Caution

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



1. Key number tag

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

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.

Engine Immobiliser

The ignition barrel housing acts as the antenna for the engine immobiliser. When the ignition switch is turned to the OFF position and the ignition key is removed, the engine immobiliser is active (see page 33). The engine immobiliser is deactivated when the ignition key is in the ignition switch and it is turned to the ON position.

Brake Lever

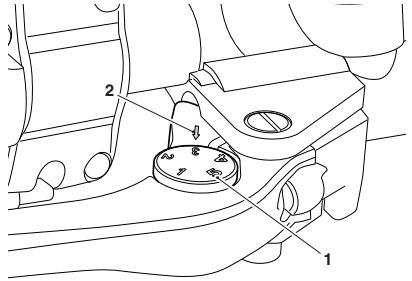
Warning

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

After adjusting the levers, operate the motorcycle in an area free from traffic to gain familiarity with the new lever setting.

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

A span adjuster is fitted to the brake lever. The adjuster allows the distance from the handlebar to the brake lever to be changed to suit the span of the rider's hand.



1. Adjuster wheel
2. Arrow mark

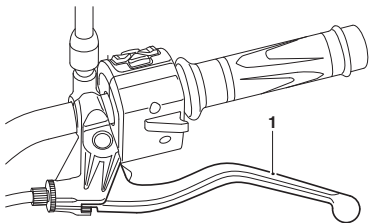
To adjust the brake lever:

- Push the brake 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 brake lever is shortest when set to number five and longest when set to number one.

General Information

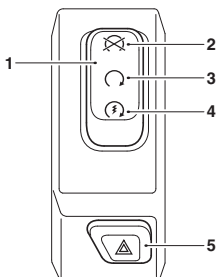
Clutch Lever

The clutch lever has a fixed span. It is not adjustable.



1. Clutch lever

Right Handlebar Switches



1. Engine start/stop switch
2. STOP position
3. RUN position
4. Start position
5. 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.

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 handlebar.

Note

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

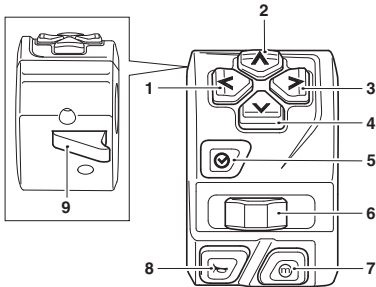
Hazard Warning Lights Switch

To turn the hazard warning lights on or off, press and release the hazard warning light switch.

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

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

Left Handlebar Switches



1. **Left button**
2. **Up button**
3. **Right button**
4. **Down button**
5. **Select button**
6. **Direction indicator switch**
7. **Mode button**
8. **Horn button**
9. **High beam button**

Navigation Buttons

The navigation buttons are used to operate the following functions of the instruments:

- Up-scroll the menu bottom to top
- Down-scroll the menu top to bottom
- Left-scroll the menu to the left
- Right-scroll the menu to the right.

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

Automatic self cancelling indicators can be activated in the Bike Set Up function on the display, refer to page 45.

Note

When in automatic self cancelling mode and the motorcycle stops for any reason, then the indicators will flash for the remainder of the time and distance unless manually cancelled by the rider.

Mode Button

When the Mode button is pressed and released it will activate the riding mode display. Further presses of the Mode button will scroll through the available riding modes (see page 38).

Horn Button

When the horn button is pushed, with the ignition switch turned on, the horn will sound.

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.

General Information

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.

A Pass feature is not available on this model.

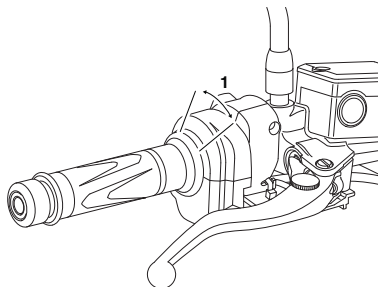
The headlight will function when the ignition switch is turned to the ON position. The headlight will go off while pressing the starter button until the engine starts.

Throttle Control

An electronic throttle twist grip controls the opening and closing of the throttles via the engine's electronic control module. 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.



1. Throttle closed position

Warning

Reduce speed and do not continue to ride for longer than is necessary with the Malfunction Indicator Light (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.

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 above conditions contact an authorised Triumph dealer as soon as possible to have the fault checked and rectified.

Brake Use

At low throttle opening (approximately 20°), the brakes and throttle can be used together.

At high throttle opening (greater than 20°), if the brakes are applied for longer than two seconds the throttles will close and the engine speed will reduce. To return to normal throttle operation, release the throttle control, release the brakes and then reopen the throttle.

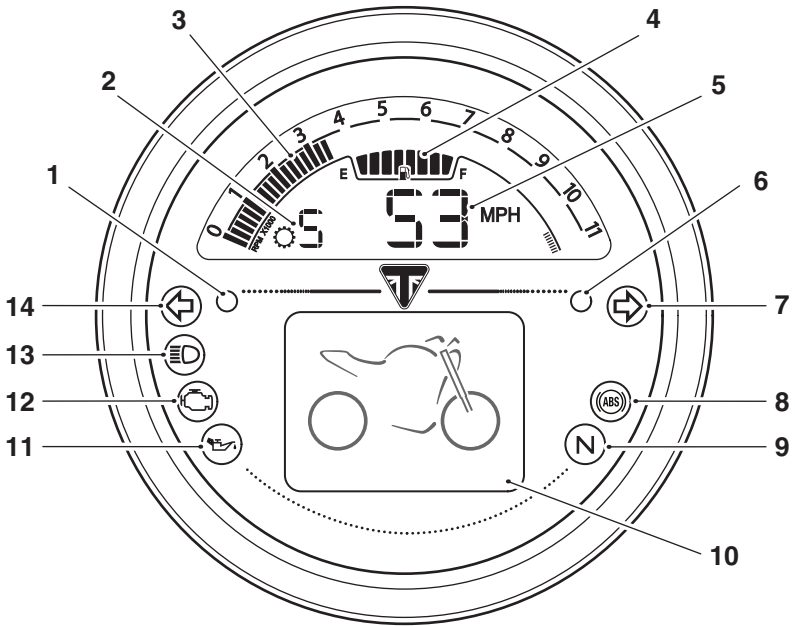
General Information

Instruments

Table of Contents

Instrument Display Layout.....	31
Warning Lights.....	32
Speedometer.....	34
Odometer.....	34
Tachometer.....	34
Fuel Gauge.....	35
Coolant Temperature Gauge.....	35
Service.....	36
Trip Meters.....	37
Riding Modes.....	37
Fuel Consumption.....	39
Tyre Pressure Monitoring System (TPMS) (if fitted).....	40
Brightness.....	40
Gear Position.....	41
Warning Messages Review.....	42
Main Menu.....	42
Riding Modes.....	43
Bike Setup Menu.....	44
Trip Setup Menu.....	46
Display Setup Menu.....	48
Reset to Defaults.....	53

Instrument Display Layout



- | | |
|--|---|
| 1. Ambient light sensor | 9. Neutral indicator light |
| 2. Gear position | 10. Information tray |
| 3. Tachometer | 11. Oil pressure warning light |
| 4. Fuel gauge | 12. Engine management Malfunction Indicator Light (MIL) |
| 5. Speedometer | 13. High beam warning light |
| 6. Alarm/immobiliser | 14. Left hand indicator and hazard warning light |
| 7. Right hand indicator and hazard warning light | |
| 8. ABS warning light | |

General Information

Warning Lights

Note

When the ignition is switched on, the instrument warning lights will illuminate for 1.5 seconds and will then go off (except those which remain on until the engine starts, as described in the following pages).

For additional Warning information, see page 42.

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 engine is running and there is a fault with the engine management system the MIL will be illuminated and the general warning symbol will flash. In such circumstances, the engine management system may switch to 'limp-home' mode so that the journey may be completed, if the fault is not so severe that the engine will not run.

Warning

Reduce speed and do not continue to ride for longer than is necessary with the 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.

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.

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 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.

Anti-lock Braking System (ABS) Warning Light



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

Note

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

The warning light should not illuminate again until the engine is restarted unless there is a fault.

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

Warning

If the ABS is not functioning, the brake system will continue to function as a non-ABS equipped brake system.

Do not continue to ride for longer than is necessary with the warning 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.

Direction Indicators



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

General Information

Hazard Warning Lights Switch

To turn the hazard warning lights on or off, press and release the hazard warning light switch.

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

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

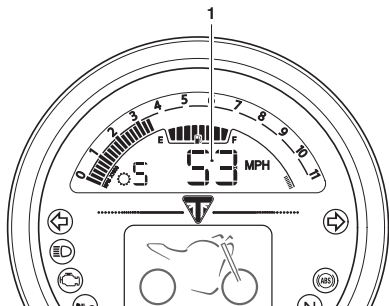
High Beam Light



When the ignition is switched ON and the headlight dip switch is set to HIGH BEAM, the high beam warning light will illuminate.

Speedometer

The speedometer indicates the road speed of the motorcycle.



1. Speedometer

Odometer

The odometer shows the total distance that the motorcycle has travelled. The odometer is shown in the Service display.



1. Odometer

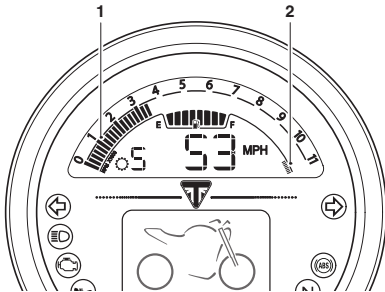
Tachometer



Caution

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

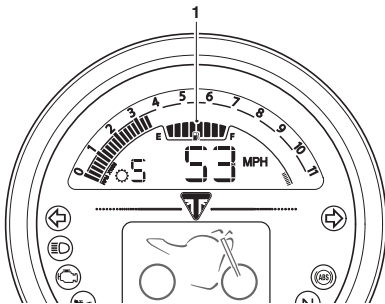
The tachometer shows the engine speed in revolutions per minute—rpm (r/min). At the end of the tachometer range there is the red zone. Engine speeds in the red zone are above maximum recommended engine speed and are also above the range for best performance.



1. Engine speed (rpm)
2. Red zone

Fuel Gauge

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



1. Fuel gauge

With the ignition switched on, a filled line indicates the fuel remaining in the fuel tank.

The gauge markings indicate intermediate fuel levels between E (empty) and F (full). The low fuel warning light will illuminate when approximately 3.5 litres of fuel is remaining in the tank and you should refuel at the earliest opportunity.

The range to empty and instantaneous fuel consumption are shown in the Fuel Consumption display, see page 39.

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.

Coolant Temperature Gauge

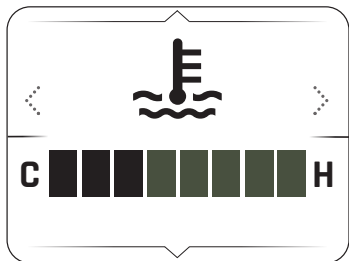
Caution

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 a warning message is shown in the instrument tray.

General Information

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



1. Coolant temperature gauge

When the engine is started from cold, the display will show grey bars. As the temperature increases more bars in the display will be shown illuminated. When the engine is started from hot, the display will show the relevant number of illuminated bars, dependant on engine temperature.

The normal temperature range is between the C (Cold) and H (Hot) on the display.

With the engine running, if the engine coolant temperature becomes dangerously high, a warning message will be shown in the instrument tray. The coolant temperature gauge is also shown.

Service

The Service display shows the total distance that the motorcycle has remaining before a service is required. It also shows the date that the service is required to be completed by.



1. Date the service is required by
2. Remaining number of miles or kilometres

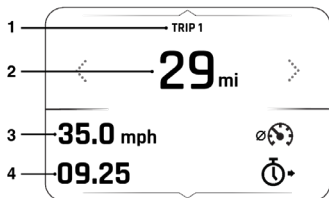
If the service is overdue then a message is shown in the instrument tray.

When the service has been carried out by your authorised Triumph dealer, the system will be reset.

The distance to the next service or any service message will also be shown in the instrument tray when the ignition is turned on.

Trip Meters

There are two trip meters that can be accessed and reset in the information tray.



1. Trip meter 1 or 2
2. Duration of trip
3. Average speed
4. Time taken to complete trip

To view a specific trip meter:

- Push the Left or Right buttons until the required trip meter is shown.

For more information on trip meters, see page 46.

Riding Modes

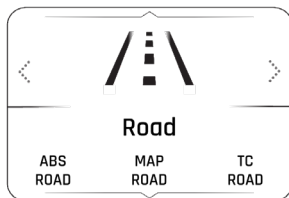
The riding modes allow adjustment of the throttle response (MAP), Anti-lock Brake System (ABS) and Traction Control (TC) settings to suit differing road conditions and rider preferences.

Riding modes can be selected using the Mode button located on the left hand switch housing, whilst the motorcycle is stationary or moving, see page 38.

The following riding modes are available; Road and Rain.

Road Mode

The Road mode is predetermined and provides optimal ABS, MAP and TC settings for normal road use.

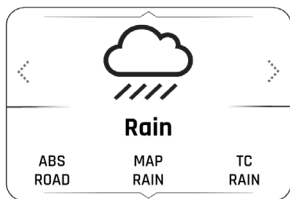


System Settings	
ABS	Road – Optimal ABS setting for road use.
MAP	Road – Standard throttle response.
TC	Road – Optimal TC setting for road use.

General Information

Rain Mode

The Rain mode is predetermined and provides optimal ABS, MAP and TC settings for normal road use in rain conditions.



System Settings	
ABS	Road – Optimal ABS setting for road use.
MAP	Rain – Reduced throttle response when compared to the Road setting, for wet or slippery conditions.
TC	Rain – Optimal TC setting for road use in rain conditions, allows minimal rear wheel slip.

Riding Mode Selection

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.

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.

Warning

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 settings from the one you are familiar with, causing loss of motorcycle control and an accident.

Note

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

If the riding mode icons are not shown when the ignition switch is in the ON position, make sure that the engine stop switch is in the RUN position.

To select a riding mode:

- Press and release the Mode button on the left hand switch housing to activate the riding mode selection display.
- The currently active riding mode icon is shown in the information tray.

To change the selected riding mode:

- Press the Mode button repeatedly until the required riding mode is shown in the information tray. Once in the riding mode display, the Left or Right buttons will also scroll through the riding mode options.
- Press the Select button to confirm the selection of the required riding mode.

- The selected riding mode is activated once the following conditions for switching riding modes have been met:

Motorcycle Stationary-Engine Off

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

Motorcycle Stationary-Engine Running

- Neutral gear is selected or the clutch is pulled in.

Motorcycle in Motion

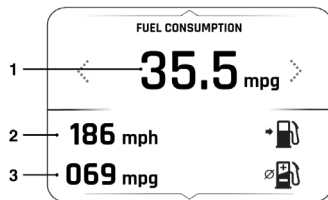
Within 30 seconds of selecting a riding mode the rider must carry out the following simultaneously:

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

The riding mode selection is now complete and normal riding can be resumed.

Fuel Consumption

The Fuel Consumption display shows fuel consumption information.



1. Instantaneous fuel consumption
2. Range to empty
3. Average fuel consumption

General Information

Instantaneous Fuel Consumption

An indication of the fuel consumption at an instant in time. If the motorcycle is stationary, -- will be shown.

Range to Empty

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

Average Fuel Consumption

This is an indication of the average fuel consumption. After being reset, -- will be shown until 0.1 miles/km has been covered.

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.

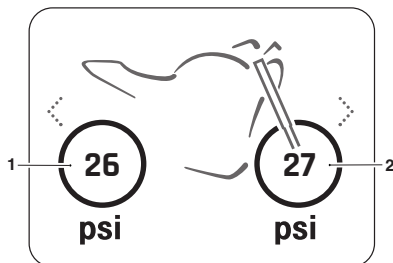
Tyre Pressure Monitoring System (TPMS) (if fitted)

Warning

Stop the motorcycle if the tyre pressure warning light illuminates.

Do not ride the motorcycle until the tyres have been checked and the tyre pressures are at their recommended pressure when cold.

The Tyre Pressure Monitoring System (TPMS) display shows the front and rear tyre pressures.



1. Rear tyre pressure indicator
2. Front tyre pressure indicator

Front Tyre Pressure Indicator

This shows the current front tyre pressure.

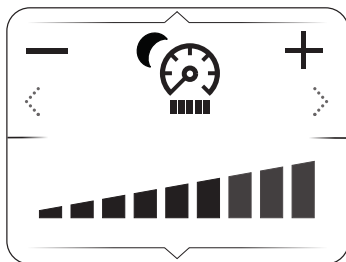
Rear Tyre Pressure Indicator

This shows the current rear tyre pressure.

For more information on TPMS and tyre pressures, see page 58.

Brightness

The Brightness display allows the brightness of the information tray to be adjusted.



To adjust the brightness of the information tray:

- Press the Left and Right buttons to increase/decrease the level of brightness.
- Press the Select button to confirm the required level of brightness.

Note

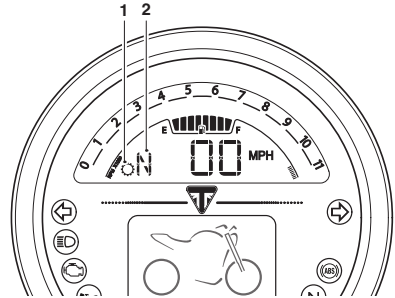
In bright sunlight, low brightness settings will be overridden to make sure that the instruments can be viewed at all times.

Note

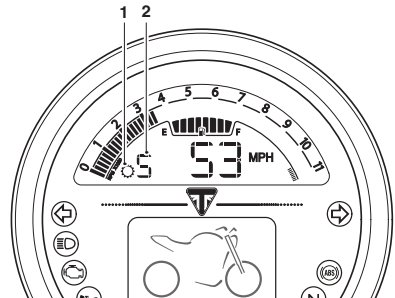
Do not cover the light sensor on the display screen as this will stop the screen brightness from working correctly.

Gear Position

The gear position is shown on the main instrument screen and indicates which gear (one to six) has been engaged. When the transmission is in neutral (no gear selected), then N is shown.



1. Gear position symbol
2. Gear position (neutral position shown)



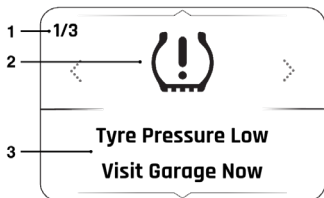
1. Gear position symbol
2. Gear position (fifth gear shown)

The gear position information is not shown when the gear shift indicator is shown in the information tray.

General Information

Warning Messages Review

Any warnings and information messages are shown in the Warning Messages display. An example is shown below.



1. **Warning message counter (showing one of three messages)**
2. **Warning message symbol**
3. **Warning message and instructions**

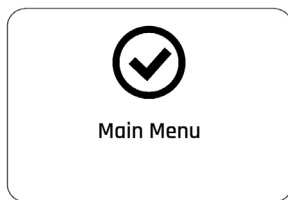
To view the warnings:

- Press the Up and Down buttons to scroll through the options until the warning message display is shown.
- Press the Left or Right buttons to review each warning message (if there is more than one). The warning message counter will show the amount of warning messages that are present.

Low Battery Warning

If items such as heated grips are fitted and are on with the engine at idle, over a period of time, the battery voltage may drop below a predetermined voltage and a warning message will be shown.

Main Menu



To access the Main menu:

- The motorcycle must be stationary with the ignition switched on.
- Press the Up and Down buttons to scroll through the information tray until the Main Menu screen is shown.
- Press the Select button to confirm the selection of the Main Menu. The Main Menu items are then available to select.



The Main Menu allows access to the following options:

Riding Modes

This menu allows configuration of the riding modes. For more information, see page 43.

Bike Setup

This menu allows configuration of the different features of the motorcycle. For more information, see page 44.

Trip Setup

This menu allows configuration of Trip 1 and Trip 2. For more information, see page 46.

Display Setup

This menu allows configuration of the display options. For more information, see page 48.

Bluetooth® (if fitted)

This menu allows configuration of the Bluetooth® connectivity. For more information, see the My Triumph Connectivity Handbook.

The My Triumph Connectivity Handbook is also available on the internet at: <https://www.triumphinstructions.com/>

Enter the part number 'A9820200' into the search field to access the handbook.

Reset to Defaults

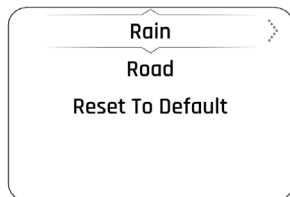
This menu allows all instrument settings to be returned to the default setting. For more information, see page 53.

Riding Modes

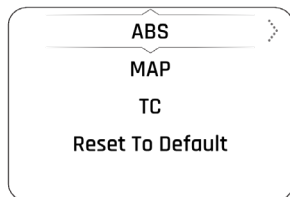
To access the Riding Modes menu:

- From the Main Menu, press the Up and Down buttons to select Riding Modes.

- Press the Right button to view the available options.



- Press the Up and Down buttons to select the required riding mode. Press the Select button to confirm.
- Press the Right button to confirm and view the relevant setting options for the selected riding mode.



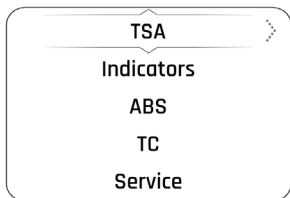
To change an ABS, MAP or Traction Control (TC) setting:

- Press the Up and Down button to select the setting.
- Press the Right button to view the available options.
- Press the Up and Down button to scroll through the options.
- Press the Select button to select the required option for the specific setting.

General Information

Bike Setup Menu

The Bike Setup menu allows configuration of the different features of the motorcycle.



To access the Bike Setup menu:

- From the Main Menu, press the Up and Down buttons to select Bike Setup.
- Push the Right button to view the available options.

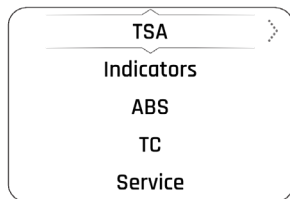
Bike Setup-TSA (Shift Assist) (if fitted)

Triumph Shift Assist (TSA) triggers a momentary engine torque change to allow gears to engage, without closure of the throttle or operation of the clutch. This feature works for both up-changes and down-changes of gear.

The clutch must be used for stopping and pulling away.

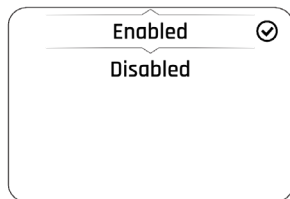
TSA will not operate if the clutch is applied or if an up-change is attempted by mistake when in 6th gear.

It is necessary to use a positive pedal force to make sure there is a smooth gear change.



To enable or disable TSA:

- From the Bike Setup menu, press the Up and Down buttons to select TSA.
- Press the Right button to view the available options.

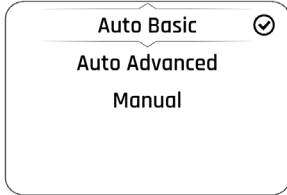


- Press the Up and Down buttons to select Enabled or Disabled.
- Press the Select button to confirm. A tick is shown to indicate the selected option.

For more information on Triumph Shift Assist (TSA), see page 72.

Bike Setup–Direction Indicators

The direction indicators can be set to Auto Basic, Auto Advanced or Manual mode.



Selecting a Direction Indicators Mode

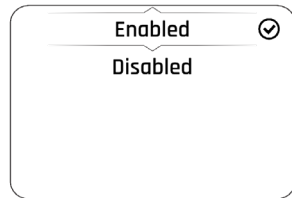
To select the required direction indicators mode:

- From the Bike Setup menu, press the Up and Down buttons to select Indicators.
- Press the Right button to view the available options.
- Press the Up and Down buttons to scroll between the following options:
 - **Auto Basic**–The self-cancelling function is on. The direction indicators will activate for eight seconds and an additional 65 metres.
 - **Auto Advanced**–The self-cancelling function is on. A short press activates the direction indicators for three flashes. A longer press activates the direction indicators for eight seconds and an additional 65 metres.
 - **Manual**–The self-cancelling function is off. The direction indicators must be manually cancelled using the direction indicator switch.

- Press the Select button to confirm the required selection. A tick is shown to indicate the selected option.

Bike Setup–ABS

It is possible to temporarily disable the ABS. The ABS cannot be permanently disabled, it will be automatically enabled when the ignition is turned off and then on again, or if the default riding mode is activated by a long press of the Mode button.



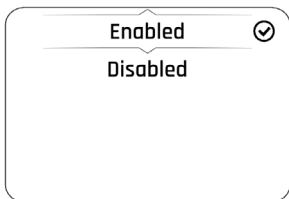
To select the required option:

- From the Bike Setup menu, press the Up and Down buttons to select ABS.
- Press the Right button to view the available options.
- Press the Up and Down buttons to scroll between Enabled and Disabled.
- Press the Select button to confirm the required selection. A tick is shown to indicate the selected option.

General Information

Bike Setup–Traction Control (TC)

The Traction Control (TC) system can be temporarily disabled. The Traction Control (TC) system cannot be permanently disabled, it will be automatically enabled when the ignition is turned off and then on again.



To disable or enable the TC system:

- From the Bike Setup menu, press the Up and Down buttons to select TC.
- Press the Right button to view the available options.
- Press the Up and Down buttons to scroll between Enabled and Disabled.
- Press the Select button to confirm the required selection. A tick is shown to indicate the selected option.

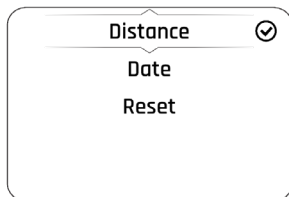
Bike Setup–Service

The service interval is set to a distance and/or time period.

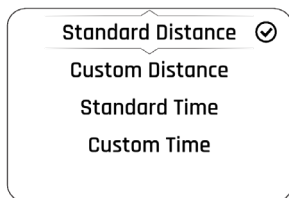
To review the service interval:

- From the Bike Setup menu, press the Up and Down buttons to select Service.

- Press the Right button to show the Service menu.



Using the Up and Down buttons, select the required service interval distance or time.



Trip Setup Menu

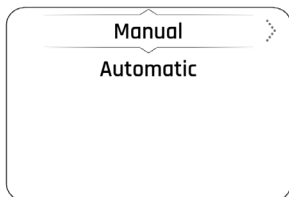
The Trip Setup menu allows the configuration of the trip meters.

To access the Trip Setup menu:

- From the Main Menu, press the Up and Down buttons to select Trip Setup.
- Press the Right button to show the available options.



Selecting Trip 1 Reset or Trip 2 Reset allows the relevant trip meter to be configured manually or automatically. The trip meter set up procedure is the same for both trip meters.



Manual reset will only reset the selected trip meter when the rider manually chooses to reset it. For more information, see page 47.

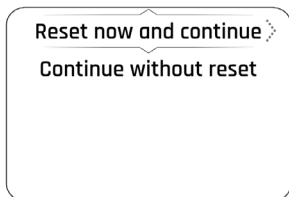
Automatic reset will reset each trip meter after the ignition has been switched off for a set time. For more information, see page 47.

Trip meter 2 can be enabled or disabled. For more information, see page 48.

Trip Setup–Manual Reset

To set the trip meter to reset manually:

- From the Trip Setup menu, press the Up and Down buttons to select either Trip 1 Reset or Trip 2 Reset.
- Press the Right button to view the available options.
- Select the required option and press the Select button to confirm.



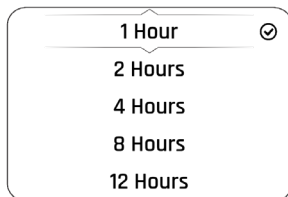
There are two options:

- **Reset now and continue**–Resets all trip meter data in the relevant trip meter.
- **Continue without reset**–Any trip meter data in the relevant trip meter will not be reset.

Trip Setup–Automatic Reset

To set the trip computer to automatically reset:

- From the Trip Setup menu, press the Up and Down buttons to select Trip 1 Reset or Trip 2 Reset.
- Press the Up and Down buttons to select Automatic.
- Press the Right button to view the available options.
- Press the Up and Down buttons to select the timer setting required.
- Press the Select button to confirm. A tick is shown to indicate the selected option.
- The required time limit is then stored in the trip memory.
- When the ignition is turned off, the trip meter is set to zero when the time period has elapsed.



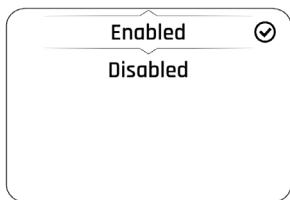
General Information

The following table shows two examples of the automatic trip reset functionality.

Ignition Turned Off	Selected Time Delay	Trip Meter Resets to Zero
10:30 hrs	4 Hours	14:30 hrs
18:00 hrs	16 Hours	10:00 hrs (next day)

Trip 2 Display

The Trip 2 Display menu allows the Trip 2 meter to be enabled or disabled. If Trip 2 is disabled, it will no longer be shown in the information tray.



To enable or disable the Trip 2 meter:

- From the Trip Setup menu, press the Up and Down buttons to select Trip 2 Display.
- Press the Right button to view the options.
- Press the Up and Down buttons to scroll between Enabled and Disabled.
- Press the Select button to confirm the selection. A tick is shown to indicate the selected option.

Display Setup Menu

The Display Setup menu allows configuration of the different display screen options.



To access the Display Setup menu:

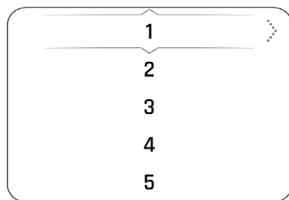
- From the Main Menu, press the Up and Down buttons to select Display Setup.
- Press the Right button to open the Display Set up menu options.
- Select the required option from the list to access the relevant information.

Display Setup–Brightness

There are eight levels of brightness options to select from. Level 8 is the brightest option.

To adjust the brightness:

- From the Display Setup menu, select from 1 to 8 to adjust the brightness.

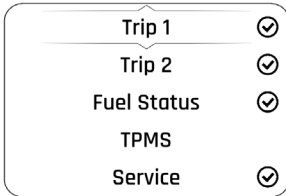


Note

In bright sunlight, low brightness settings will be overridden to make sure that the instruments can be viewed at all times.

Display Setup–Visible Tray

The Visible Trays menu allows the selection of the items to be shown in the information tray.



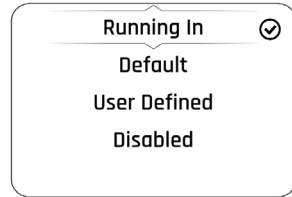
To select the Visible Trays menu:

- From the Display Setup menu, press the Up and Down buttons to select the Visible Trays option.
- Press the Right button to show the available options.
- Press the Up and Down buttons until the required information tray item is highlighted.
- Press the Select button to select/deselect the information tray.

An information tray item with a tick next to it will be shown in the information tray. An information tray item without a tick next to it will not be shown in the information tray.

Display Setup–Gear Shift Ind.

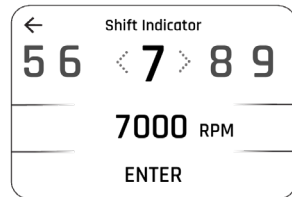
The Gear Shift Ind. option allows the adjustment of the gear shift indicator.



The engine speed threshold can be defined and reset, and the gear shift indicator can be disabled. Once the engine has been run in (at 1,000 miles), the Running In option is replaced with a Default option.

To adjust the engine speed threshold (RPM) for the gear shift indicator:

- From the Gear Shift Indicator menu, press the Up and Down buttons to select User Defined and press the Select button to confirm.



- Press the Left and Right buttons to scroll through the numbers to select each individual number. Press the Select button to confirm the number.
- Repeat this procedure with each individual number until the required RPM number is shown.
- Click on the Select button to confirm the RPM number.

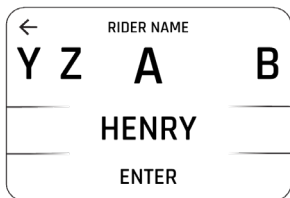
General Information

To disable the gear shift indicator:

- Press the Up and Down buttons to select Disable and press the Select button to confirm.

Display Setup–Rider Name

The Rider Name menu allows the rider name to be shown in the welcome screen.



To enter a rider's name:

- From the Display Setup menu, press the Up and Down buttons to select Rider Name and press the Select button to confirm.
- Press the Left and Right buttons to scroll through the letters to select the required first letter of the rider's name.
- Once the required letter is highlighted, click on the Select button to confirm.
- Repeat the procedure until the whole rider name has been selected. There is a limit of 13 letters.
- Once the rider's name has been completed, select Enter and press the Select button to confirm.
- The rider's name will now appear on the welcome screen the next time the instruments are started.

Display Setup–Language

The Language menu allows the preferred language to be used as the instrument display language.

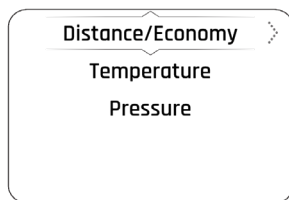


To select the required language for the instruments:

- From the Display Setup menu, press the Up and Down buttons to select the Languages option.
- Press the Right button to confirm and display the available language options.
- Scroll the menu by pushing the Up and Down buttons until the required language option is highlighted.
- Press the Select button to select/deselect the required language. A tick is shown to indicate the selected option.

Display Setup–Units

The Units menu allows the selection of a preferred unit of measurement.



To select the required units of measurement:

- From the Display Setup menu, press the Up and Down buttons to select Units.
- Press the Right button to show the available options.

To change the unit of measurement:

- Press the Up and Down buttons to select the required option.
- Press the Right button to show the available options.
- Press the Up and Down buttons to select the required unit of measurement.
- Press the Select button to confirm. A tick is shown to indicate the selected option.

The options available are:

Economy:

- Miles & MPG (UK)
- Miles & MPG (US)
- KM & L/100KM
- KM & KM/L

Temperature:

- °C
- °F

Pressure:

- PSI
- bar
- KPa

Display Setup–Clock

The Clock menu allows the adjustment of the clock to be set to the local time.



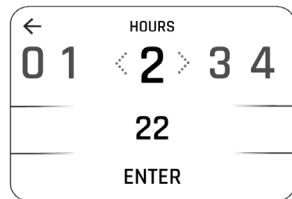
To set the clock:

- From the Display Setup menu, press the Up and Down buttons to select Clock.
- Press the Right button to show the available options.
- Press the Up and Down buttons to select 12 HR or 24 HR clock and press the Select button to confirm selection. A tick is shown to indicate the selected option.

The clock will display in either 12 or 24 hour format depending on selection.

To adjust the hour setting:

- Select Hours and press the Right button to be shown the HOURS display.

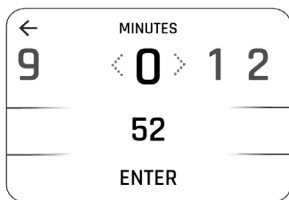


General Information

- Press the Left and Right buttons to scroll through the numbers to select the correct time. When the number is highlighted, press the Select button to confirm. The number appears below. Repeat this step to select the next number.
- When the hour number is correct, press the Up button until at the top of the display and press the Left button to return to the Clock display.

To adjust the minute setting:

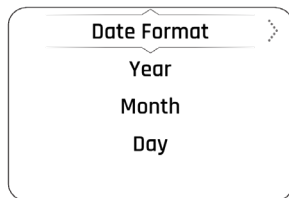
- Select MINUTES and press the Right button to be shown the MINUTES display.



- Press the Left and Right buttons to scroll through the numbers to select the correct time in minutes. When the number is highlighted, press the Select button to confirm. The number appears below. Repeat this step to select the next number.
- When the minute number is correct, press the Up button until at the top of the display screen and press the Left button to return to the Clock display.

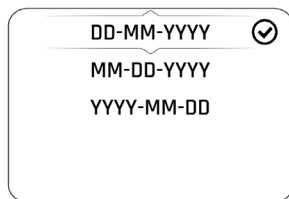
Display Setup-Date

The Date option allows the date and date format to be adjusted.



To set the date format:

- From the Display Setup menu, press the Up and Down buttons to select Date. Press the Right button to show the available options.
- Press the Up and Down buttons to select Date Format. Press the Right button to show the available options.

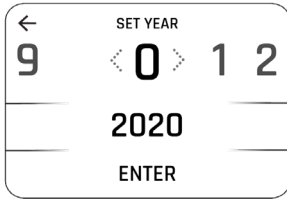


- Press the Up and Down buttons to select the required date format option. Press the Select button to confirm the selection. A tick is shown to indicate the selected option.

To set the year:

- From the Display Setup menu, press the Up and Down buttons to select Date. Press the Right button to show the available options.

- Press the Up and Down buttons to select Year. Press the Right button to show the SET YEAR display.

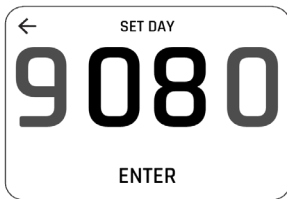


- Press the Left and Right buttons to scroll through the numbers to select the required first number of the four digit year.

Once the required number is highlighted, click on the Select button to confirm. Repeat the procedure until the year required is shown.

To set the day:

- From the Display Setup menu, press the Up and Down buttons to select Date. Press the Right button to show the available options.
- Press the Up and Down buttons to select Day. Press the Right button to show the SET DAY display.



- Press the Left and Right buttons to scroll through the numbers to select the required day.

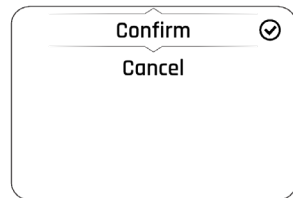
Once the required day is highlighted, click on the Select button to confirm.

Reset to Defaults

The Reset to Default option allows the Main Menu display items to be reset to the default setting.

To reset the Main Menu display items:

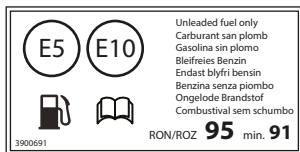
- From the Main Menu, press the Up or Down buttons to select Reset To Defaults.
- Press the Up or Down buttons to select Confirm or Cancel. Press the Select button to confirm the selection.



- Confirm–All main menu settings and data will be reset to the factory default values including Riding Modes, Trip Meters, Visible Trays, Language, Traction Control and Display Brightness.
- Cancel–The main menu settings and data will remain unchanged and the display will return to the previous menu level.

General Information

Fuel



Fuel Grade

Triumph motorcycles are 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.

Ethanol

In Europe, Triumph motorcycles are compatible with Ethanol E5 and E10 (5% and 10% Ethanol) unleaded fuel.

In all other markets Ethanol up to E25 (25% Ethanol) may be used.

Engine Calibration

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

⚠ 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.

⚠ 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.

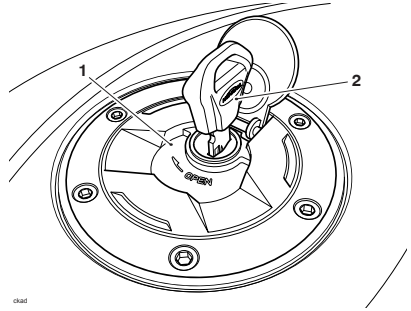
Refuelling

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
2. Key

To open the fuel tank cap:

- Lift up the fuel tank cap cover.
- Insert the key into the fuel tank cap lock and turn the key clockwise.
- Remove the fuel tank cap and key.

To close and lock the fuel tank cap:

- Replace the fuel tank cap with the key inserted and push down until the lock clicks into place.
- Remove the key and close the fuel tank cap cover.

Caution

Locking the fuel tank cap into place without the key inserted will damage the cap, tank and lock mechanism.

General Information

Filling the Fuel Tank

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.

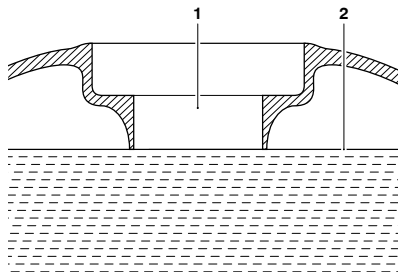
Fuel spilled near to, or onto the tyres will reduce the tyres' ability to grip the road. This will result in a dangerous riding condition potentially causing loss of motorcycle control and an accident.

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.



1. **Fuel filler neck**
2. **Maximum fuel level**

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

Traction Control (TC)

Warning

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/slippy 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

Warning

Do not attempt to adjust the traction control settings while the motorcycle is in motion as this may lead to loss of motorcycle control and an accident.

Warning

If the traction control is disabled, the motorcycle will handle as normal but without traction control. In this situation accelerating too hard on wet/slippy 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 as described on page 46.

If traction control is turned OFF, the TC disabled warning light will be illuminated.

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

General Information

Tyre Pressure Monitoring System (TPMS) (if fitted)

Note

The Tyre Pressure Monitoring System (TPMS) is available as an accessory option and must be fitted by your authorised Triumph dealer. The TPMS display on the instruments will only be activated when the system has been fitted.

Warning

The daily check of tyre pressures must not be excluded because of the fitment of the Tyre Pressure Monitoring System (TPMS).

Check the tyre pressure when the tyres are cold using an accurate tyre pressure gauge, see the Tyre section for more information.

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

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

An adhesive label will be fitted to the wheel rim to indicate the position of the tyre pressure sensor, which is near the valve.

Tyre Pressures

Warning

The Tyre Pressure Monitoring System (TPMS) is not to be used as a tyre pressure gauge when adjusting the tyre pressures.

For correct tyre pressures, always check the tyre pressures when the tyres are cold using an accurate tyre pressure gauge.

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

Caution

Do not use anti puncture fluid or any other item likely to obstruct air flow to the TPMS sensor's orifices. Any blockage to the air pressure orifice of the TPMS sensor during operation will cause the sensor to become blocked, causing irreparable damage to the TPMS sensor assembly.

Damage caused by the use of anti puncture fluid or incorrect maintenance is not considered a manufacturing defect and will not be covered under warranty.

Always have your tyres fitted by your authorised Triumph dealer and inform them that tyre pressure sensors are fitted to the wheels.

Caution

An adhesive label is fitted to the wheel rim to indicate the position of the tyre pressure sensor.

Care must be taken when replacing the tyres to prevent any damage to the tyre pressure sensors.

Always have your tyres fitted by your authorised Triumph dealer and inform them that tyre pressure sensors are fitted to the wheels.

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

The tyre pressures must only be adjusted when the tyres are cold and using an accurate tyre pressure gauge. The tyre pressure display on the instruments must not be used when adjusting the tyre pressure. For the recommended tyre pressures, see the Specification section.

Tyre Pressure Warning Light (if TPMS is fitted)

Warning

Stop the motorcycle if the tyre pressure warning light illuminates.

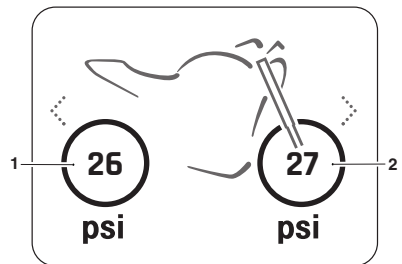
Do not ride the motorcycle until the tyres have been checked and the tyre pressures are at their recommended pressure when cold.



The tyre pressure warning light works in conjunction with the Tyre Pressure Monitoring System, see page 58.

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

When the warning light is illuminated, the Tyre Pressure display will show which tyre is the deflated tyre. It will also show the tyre pressure.



1. Rear tyre pressure indicator
2. Front tyre pressure indicator

General Information

The tyre pressure at which the warning light illuminates is temperature compensated to 20°C but the numeric pressure display associated with it is not (see page 115). Even if the numeric display seems at or close to the standard tyre pressure when the warning light is on, a low tyre pressure is indicated and a puncture is the most likely cause.

Tyre Pressure Sensor Batteries

When the battery voltage in a pressure sensor is low, a message will be shown in the instrument display and the TPMS symbol or message will indicate which wheel sensor has the low battery voltage. If the batteries are completely flat, only dashes will be shown in the instrument display, the red TPMS warning light will be on and the TPMS symbol will flash continuously. Contact your authorised Triumph dealer to have the sensor replaced and the new serial number recorded in the spaces provided in the Sensor Serial Number section.

With the ignition switch turned to the ON position, if the TPMS symbol flashes continuously or the TPMS warning light remains on there is a fault with the TPMS system. Contact your authorised Triumph dealer to have the fault rectified.

Tyre Pressure Sensor Serial Number

The serial number for the tyre pressure sensor is printed on a label attached to the sensor. This number may be required by your authorised Triumph dealer for service or diagnostics.

When the tyre pressure monitoring system is being fitted to the motorcycle, make sure that your authorised Triumph dealer records the serial numbers of the front and rear tyre pressure sensors in the spaces provided below.

Front Tyre Pressure Sensor

Rear Tyre Pressure Sensor

Replacement Tyres

When replacing tyres, always have an authorised Triumph dealer fit your tyres and make sure they are aware that tyre pressure sensors are fitted to the wheels.

Side Stand

Warning

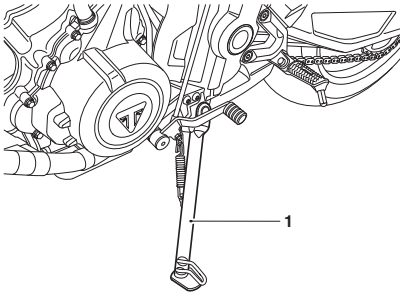
The motorcycle is fitted with an interlock system to prevent it from being ridden with the side stand in the down position.

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

Warning

Do not lean, sit or climb on the motorcycle when it is supported on the side stand.

This may cause the motorcycle to fall over leading to motorcycle damage and an accident.



1. Side stand

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

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 side stand is fully up after first sitting on the motorcycle.

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

General Information

Seat

⚠ 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.

For more information on seat care, see page 134.

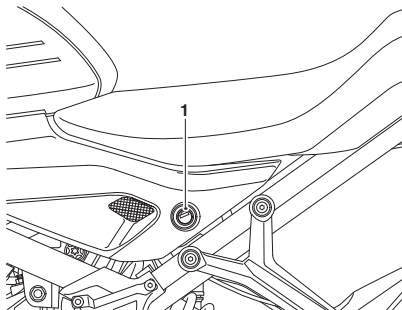
Seat Lock

⚠ Warning

To prevent detachment of the seat during riding, after fitting always grasp the seat and pull firmly upwards.

If the seat is not correctly secured in the lock, it will detach from the lock.

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



1. Seat lock

The seat lock is located on the left hand side of the motorcycle, on the frame below the seat.

The seat can be removed to gain access to the battery and the fuse box.

Seat Removal and Installation

Warning

To prevent detachment of the seat during riding, after fitting always grasp the seat and pull firmly upwards.

If the seat is not correctly secured in the lock, it will detach from the lock.

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

To remove the seat:

- Insert the ignition key into the seat lock and turn it anticlockwise. This will release the seat from its lock.
- Slide the seat upwards and rearwards for complete removal from the motorcycle.

To refit the seat:

- Engage the seat's tongue underneath the bracket near the fuel tank.
- Line up the hinges and press down at the rear to engage the seat lock.

Note

An audible click can be heard when the seat is fully engaged into its lock.

Owner's Handbook and Tool Kit

Owner's Handbook

The Owner's Handbook is supplied with the motorcycle.

Tool Kit

There is an Allen key located on the underside of the seat.

A tool kit is supplied with the motorcycle which includes a C spanner.

General Information

Running-In



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



Warning

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

Check 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 the following:

Fuel: Adequate supply in tank, no fuel leaks (page 54).

Engine Oil: Correct level on dipstick. Add correct specification oil as required. No leaks from the engine or oil cooler (page 91).

Drive Chain: Correct adjustment (page 101).

Tyres/Wheels: Correct inflation pressures (when cold). Tread depth/wear, tyre/wheel damage, punctures etc. (page 115).

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 (page 111).

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 (page 104).

Brake Pads: Check that the correct amount of friction material is remaining on all the brake pads (page 104).

Brake Fluid Levels: No brake fluid leakage. Brake fluid levels must be between the MAX and MIN marks on both reservoirs (page 107).

Front Forks: Smooth action. No leaks from fork seals (page 112).

Throttle: Make sure that the throttle grip returns to the idle position without sticking (page 28).

Clutch: Smooth operation and correct cable free play (page 99).

Coolant: No coolant leakage. Check the coolant level in the expansion tank (when the engine is cold) (page 95).

Electrical Equipment: All lights and the horn function correctly (page 125).

Engine Stop: Stop switch turns the engine off (page 68).

Stand: Returns to the fully up position by spring tension. Return springs not weak or damaged (page 61).

General Information

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How to Ride the Motorcycle

Table of Contents

Stopping the Engine.....	68
Starting the Engine.....	68
Moving Off.....	70
Changing Gears.....	71
Triumph Shift Assist (TSA) (if fitted).....	72
Braking.....	73
Parking.....	76
Considerations for High Speed Operation.....	78

How to Ride the Motorcycle

Stopping the Engine

⚠ 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.

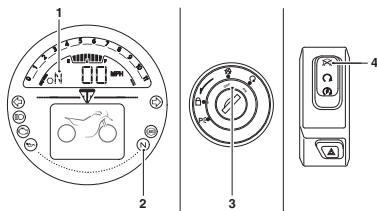
Starting the Engine

⚠ 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 the motorcycle in the open air or in an area with adequate ventilation.



1. **Neutral indicator**
2. **Neutral warning light**
3. **OFF position on the ignition switch**
4. **STOP position on the engine start/stop switch**

To stop the engine:

- Close the throttle completely.
- Select neutral.
- Turn the ignition switch to the OFF position.
- Select first gear.
- Support the motorcycle on a firm, level surface with the side stand.
- Lock the steering.

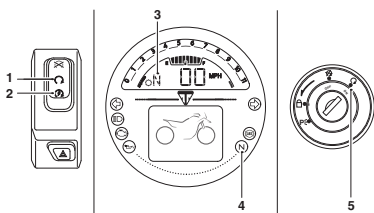
How to Ride the Motorcycle

⚠ 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.



1. **RUN** position on the engine start/stop switch
2. **START** position on the engine start/stop switch
3. **Neutral** indicator
4. **Neutral** warning light
5. **ON** position on the ignition switch

To start the engine:

- Check that the stop switch is in the RUN position.
- Make sure the transmission is in neutral.
- Pull the clutch lever fully into the handlebar.
- Turn the ignition switch to the ON position.

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 32).

A transponder is fitted within the key 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.

- Leaving the throttle fully closed, push the starter button until the engine starts.
- Slowly release the clutch lever.

⚠ Caution

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

If the low oil pressure warning light stays on after starting the engine, stop the engine immediately and investigate the cause.

Running the engine with low oil pressure will cause severe engine damage.

- The motorcycle is equipped with starter lockout switches. The switches prevent the electric starter from operating when a gear is engaged with the side stand down.

How to Ride the Motorcycle

- 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 clutch 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

Warning

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

Warning

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.

To change gear:

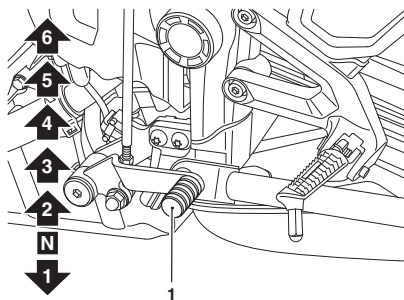
- Close the throttle while pulling in the clutch lever.
- Change into the next higher or lower gear.
- Open the throttle part way, while releasing the clutch lever.
- Always use the clutch when changing gear.

Note

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

Note

For models fitted with Triumph Shift Assist (TSA), see page 72.



1. Gear change pedal

How to Ride the Motorcycle

Triumph Shift Assist (TSA) (if fitted)

Caution

In the event of a TSA system fault when riding, the TSA system will be disabled.

Use the clutch to change gears in the normal way otherwise damage to the engine or gear box may occur.

Contact a Triumph dealer as soon as possible to have the fault checked and rectified.

Caution

Changing gears must be completed with a quick and forceful pedal movement, making sure that the pedal moves through its full range of travel.

Always take care when changing gears. After a gear change, the pedal must be fully released before another gear change can be made.

Incorrect gear changes can cause damage to the engine and transmission.

Triumph Shift Assist (TSA) adjusts the engine torque to allow gears to engage, without closure of the throttle twist grip or operation of the clutch.

TSA is not an automatic system for changing gears. Gears must be selected and changed in the normal way using the gear pedal as described on page 71.

TSA works for both up shifts and down shifts of gear. The clutch must be used for stopping and pulling away. The clutch must be used when selecting any gear from neutral, and also when selecting neutral from any other gear.

Triumph Shift Assist will not operate if:

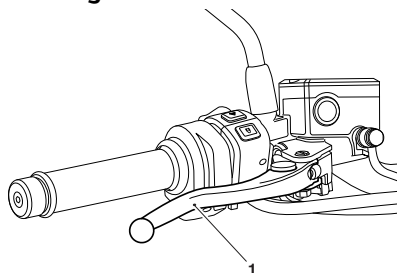
- The clutch is applied.
- An up shift is attempted by mistake when in 6th gear.
- A down shift is attempted by mistake when in 1st gear.
- An up shift is attempted at very low engine speeds.
- A down shift is attempted at very high engine speeds.
- An up shift is attempted during overrun.
- Traction control is operating.
- If the previous gear has not fully engaged.
- The throttle is changed during a shift.

If TSA does not operate, the clutch can be used to change gears in the normal way.

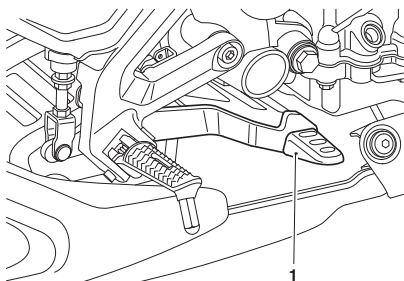
For more information on enabling and disabling the TSA functionality, see page 44.

How to Ride the Motorcycle

Braking



1. Front brake lever



1. Rear brake pedal

Warning

WHEN BRAKING, OBSERVE THE FOLLOWING:

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

How to Ride the Motorcycle

Warning

For your safety, always exercise extreme caution when braking, accelerating or turning as any 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 (see ABS warnings).

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

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

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

Warning

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.

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.

How to Ride the Motorcycle

Anti-lock Braking System (ABS)

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.

Note

The ABS operation may feel like a harder pedal pressure or a pulsation of the brake lever and pedal.

The ABS is not an integrated braking system and does not control both the front and rear brake at the same time so this pulsation may be felt in the lever, the pedal or both.

The ABS may be activated by sudden upward or downward changes in the road surface.

Warning

If the ABS is not functioning, the brake system will continue to function as a non-ABS 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.

ABS Warning Light



When the ignition switch is turned to the ON position, it is normal for the ABS warning light to flash on and off, see page 33. If the ABS warning light is constantly illuminated it indicates that the ABS function is not available because the ABS has a malfunction that requires investigation.

Warning

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

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

How to Ride the Motorcycle

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.

Parking

Warning

The engine and exhaust system will be hot after riding.

DO NOT park where pedestrians and children are likely to touch the motorcycle.

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

Warning

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.

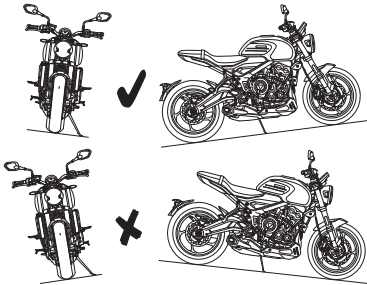
Failure to follow the above advice may cause a fire resulting in damage to property or personal injury.

How to Ride the Motorcycle

Warning

Do not park on a soft or steeply inclined surface.

Parking under these conditions may cause the motorcycle to fall over causing damage to property and personal injury.



To park the motorcycle:

- Select neutral and turn the ignition switch to the OFF position.
- Select first gear.
- Lock the steering to help prevent theft.
- Always park on a firm, level surface to prevent the motorcycle from falling. This is particularly important when parking off-road.
- When parking on a hill, always park facing uphill to prevent the motorcycle from rolling off the stand. Engage first gear to prevent the motorcycle from moving.
- On a lateral (sideways) incline, always park such that the incline naturally pushes the motorcycle towards the side stand.

- Do not park on a lateral (sideways) incline of greater than 6° and never park facing downhill.
- Do not leave the switch in the P position for long periods of time as this will discharge the battery.

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).

How to Ride the Motorcycle

Considerations for High Speed Operation

Warning

This Triumph motorcycle should be operated within the legal speed limits for the particular road travelled.

Operating a motorcycle at high speeds can be potentially dangerous since the time available to react to given traffic situations is greatly reduced as road speed increases.

Always reduce speed in potentially hazardous driving conditions such as bad weather or heavy traffic.

Warning

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

High speed operation should only then be attempted by riders who have been instructed in the techniques necessary for high speed riding and are familiar with the motorcycle's characteristics in all conditions.

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

Warning

The handling characteristics of a motorcycle at high speed may vary from those you are familiar with at legal road speeds.

Do not attempt high speed operation unless you have received sufficient training and have the required skills as a serious accident may result from incorrect operation.

Warning

The items listed 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.

How to Ride the Motorcycle

General

Make sure that the motorcycle has been maintained according to the scheduled maintenance chart.

Brakes

Check that the front and rear brakes are functioning correctly.

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.

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.

Fuel

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



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.

Luggage

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

Miscellaneous

Visually check that all fixings are tight.

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.

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.

How to Ride the Motorcycle

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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 passengers and additional loads.

Accessories

Warning

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.

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.

Accessories, Loading and Passengers

Warning

Fit only genuine Triumph accessories to the correct Triumph motorcycle model.

Always check the Triumph Fitting Instruction associated with the genuine Triumph accessory. Make sure the Triumph motorcycle model that the Triumph accessory is to be fitted to, is listed as approved for the genuine Triumph accessory. For all Triumph Fitting Instructions, see www.triumphinstructions.com.

Never fit genuine Triumph accessories to a Triumph motorcycle model that is not listed in the associated Triumph Fitting Instruction, as this may affect handling, stability or other aspects of the motorcycle operation that may result in an accident causing severe injuries or death.

Warning

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

The presence of accessories and/or payload will cause changes in the stability and handling of the motorcycle.

Failure to allow for changes in motorcycle stability may lead to loss of 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

Warning

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 as specified in the Specifications section.

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

For models that have adjustable suspension settings, make sure that front and rear spring preload and damping settings are suitable for the loading condition of the motorcycle. Note the maximum permissible payload for the panniers is stated on a label inside the pannier.

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

Warning

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.

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.

Warning

The maximum safe load for each pannier is stated on a label inside the pannier.

Never exceed this loading limit as this may cause the motorcycle to become unstable leading to loss of motorcycle control and an accident.

Accessories, Loading and Passengers

Warning

If the passenger seat is used to carry small objects, they must not exceed 5 kg (11lbs) 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 (11lbs) 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).

Warning

Do not carry a passenger unless he or she is tall enough to reach the footrests provided.

A passenger who is not tall enough to reach the footrests will be unable to sit securely on the motorcycle and may cause instability leading to loss of control and an accident.

Warning

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

The rider should instruct the passenger as follows:

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

Warning

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

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

Table of Contents

Scheduled Maintenance	87
Scheduled Maintenance Table	89
Engine Oil	91
Engine Oil Level Inspection	91
Engine Oil and Filter Change	92
Disposal of Used Engine Oil and Oil Filters	93
Engine Oil Specification and Grade (10W/40 & 10W/50)	94
Cooling System	94
Coolant Level Inspection	95
Coolant Level Adjustment	96
Coolant Change	97
Throttle Control	98
Throttle Inspection	98
Clutch	99
Clutch Inspection	99
Clutch Adjustment	99
Drive Chain	100
Drive Chain Lubrication	100
Drive Chain Free Movement Inspection	101
Drive Chain Free Movement Adjustment	102
Drive Chain and Sprocket Wear Inspection	103
Brakes	104
Front Brake Wear Inspection	104
Rear Brake Wear Inspection	105
Disc Brake Fluid	106
Front Brake Fluid Level Inspection and Adjustment	107
Rear Brake Fluid Level Inspection and Adjustment	107
Brake Light Switches	108
Mirrors	109
Steering	110
Steering Inspection	111
Wheel Bearings Inspection	111

Maintenance

Suspension.....	112
Front Fork Inspection.....	112
Rear Suspension Settings.....	113
Rear Suspension Spring Preload Adjustment.....	113
Bank Angle Indicators.....	114
Tyres.....	115
Tyre Inflation Pressures.....	116
Tyre Pressure Monitoring System (TPMS) (if fitted).....	116
Tyre Wear.....	117
Minimum Recommended Tread Depth.....	117
Tyre Replacement.....	118
Battery.....	120
Battery Removal.....	121
Battery Disposal.....	121
Battery Maintenance.....	121
Battery Discharge.....	122
Battery Discharge During Storage and Infrequent Use of the Motorcycle.....	122
Battery Charging.....	122
Battery Installation.....	123
Fuses.....	124
Fuse Identification.....	124
Headlight.....	125
Headlight Adjustment.....	125
Headlight Replacement.....	126
Direction Indicator Lights.....	126
Rear Light.....	126
License Plate Light.....	126

Scheduled Maintenance

Warning

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

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.

Warning

All maintenance is vitally important and must not be neglected. Incorrect maintenance or adjustment may cause one or more parts of the motorcycle to malfunction. A malfunctioning motorcycle may lead to loss of control and an accident.

Weather, terrain and geographical location affect maintenance. The maintenance schedule should be adjusted to match the particular environment in which the motorcycle 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.

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.

Maintenance


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.


1. 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.
2. 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.

Service Symbol/General Warning Symbol

 The service symbol will illuminate for five seconds after the motorcycle start up sequence as a reminder that a service is due in approximately 60 miles (100 km). The service symbol will illuminate permanently when the mileage is reached, it will remain permanently illuminated until the service interval is reset using the Triumph Diagnostic tool.

 The general warning symbol will flash if an ABS or engine management fault has occurred and the ABS and/or MIL warning lights are illuminated. Contact an authorised Triumph dealer as soon as possible to have the fault checked and rectified.

Note

Items marked * in the following table are subject to additional labour charge, above the cost and time allowance for the basic service, which includes time to check only.

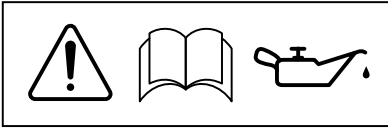
Scheduled Maintenance Table

Operation description	Odometer Reading in Miles (km) or Time Period, whichever comes first					
		First Service	Annual Service	Mileage Based Service		
	Daily	600 Mile 6 Month Service	Year	10,000/ 30,000 Mile Service	20,000 Mile Service	40,000 Mile Service
Lubrication						
Engine and oil cooler-check for leaks	*	*	*	*	*	*
Engine oil-renew		*	*	*	*	*
Engine oil filter-renew		*	*	*	*	*
Fuel System and Engine Management						
Fuel system-check for leaks	*	*	*	*	*	*
Autoscan-carry out a full Autoscan using the Triumph diagnostic tool (print a customer copy)		*	*	*	*	*
Air filter-renew (replace more often if consistently riding in wet or dusty conditions)					*	*
Spark plugs-renew					*	*
Cooling System						
Cooling system-check for leaks	*	*	*	*	*	*
Coolant level-check/adjust	*	*	*	*	*	*
Cooling system-check coolant hoses for chafing, cracks or damage. Replace if necessary		*	*	*	*	*
Coolant-renew-every 3 years, regardless of mileage*	Every three years, regardless of mileage					
Engine						
Clutch-check operation	*	*	*	*	*	*
Clutch cable-check function and adjust as necessary (models fitted with a cable clutch only)	*	*	*	*	*	*
Valve clearances-check/adjust*					*	*
Camshaft timing-check/adjust*					*	*
Wheels and Tyres						
Wheels-inspect for damage	*	*	*	*	*	*
Tyre wear/tyre damage-check	*	*	*	*	*	*
Tyre pressures-check/adjust	*	*	*	*	*	*
Wheel bearings-check for wear/smooth operation				*	*	*
Steering and Suspension						
Steering-check for free operation	*	*	*	*	*	*
Front and rear suspension-check for damage/leaks/smooth operation	*	*	*	*	*	*
Headstock bearings-check/adjust					*	*
Rear suspension unit and linkage-lubricate (single rear suspension unit models only)					*	*
Fork oil-renew						*
Swinging arm spindle-lubricate						*

Maintenance

Operation description	Odometer Reading in Miles (km) or Time Period, whichever comes first					
		First Service	Annual Service	Mileage Based Service		
	Daily	600 Mile 6 Month Service	Year	10,000/ 30,000 Mile Service	20,000 Mile Service	40,000 Mile Service
Brakes						
Brake system-check operation	•	•	•	•	•	•
Brake pads-check wear levels*	•	•	•	•	•	•
Brake fluid levels-check	•	•	•	•	•	•
Brake fluid-renew-every 2 years, regardless of mileage*	Every two years, regardless of mileage					
Final Drive						
Drive chain slack-check/adjust	•	•	•	•	•	•
Drive chain rubbing strip-check for wear, cracks or damage*	•	•	•	•	•	•
Drive chain-wear check*		•	•	•	•	•
Drive chain-lubricate		•	•	•	•	•
Electrical						
Lights, instruments and electrical systems-check/adjust	•	•	•	•	•	•
General						
Bank angle indicators-check for wear*	•	•	•	•	•	•
Centre and/or side stand-check for wear/smooth operation	•	•	•	•	•	•
Instruments and engine ECM-check for latest calibration download using the Triumph diagnostic tool		•	•	•	•	•
Carry out all outstanding Service Bulletin and warranty work		•	•	•	•	•
Carry out road test		•	•	•	•	•
Complete the service record book and reset the service indicator (if fitted)		•	•	•	•	•

Engine Oil



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 motorcycle 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 engine oil and oil filter in accordance with scheduled maintenance requirements.

Engine Oil Level Inspection

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 the motorcycle in the open air or in an area with adequate ventilation.

Warning

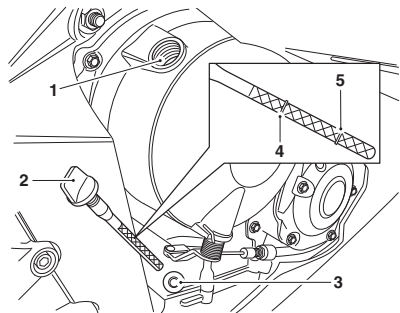
If the engine has recently been running, the exhaust system will be hot.

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.

Caution

Running the engine with insufficient engine oil will cause engine damage.

If the low oil pressure indicator remains on, stop the engine immediately and investigate the situation.



1. Filler
2. Dipstick
3. Dipstick location in crankcase
4. Upper marking
5. Lower marking

To inspect the engine oil level:

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

Maintenance

- Stop the engine, then wait for at least three minutes for the oil to settle.

Note

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

Do not add oil through the dipstick hole in the crankcase.

- Remove the dipstick.
- The oil level is indicated by lines on the dipstick. When full, the indicated oil level must be level with the upper marking on the dipstick.
- If the oil level is below the lower marking, remove the filler plug and add oil a little at a time through the filler plug hole in the clutch cover until the correct level is reached.
- Once the correct level is reached, fit and tighten the filler plug.

Engine Oil and Filter Change

Warning

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

Used engine oil contains harmful contamination that can lead to skin cancer.

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

Warning

The engine oil may be hot.

Avoid contact with the hot engine oil by wearing suitable protective clothing, gloves and eye protection.

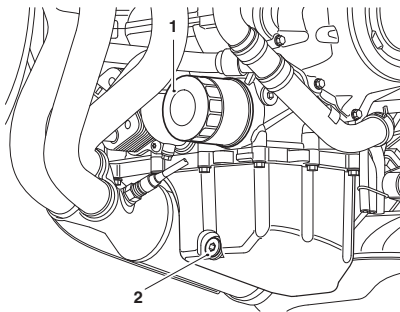
Contact with hot engine oil may cause the skin to be scalded or burned.

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



1. Oil filter
2. Oil drain plug

To change the engine oil and engine oil filter:

- Warm up the engine thoroughly, and then stop the engine and secure the motorcycle in an upright position on level ground.
- Place an oil drain pan beneath the engine.
- Remove the oil drain plug.
- Unscrew and remove the oil filter using Triumph service tool T3880313. Dispose of the old oil filter in an environmentally friendly way.
- Apply a thin 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 drain plug. Fit and tighten the drain plug to 25 Nm.
- Fill the engine with a 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.
- Start the engine and allow it to idle for a minimum of 30 seconds.



Caution

Raising the engine speed above idle before the oil reaches all parts of the engine can cause engine damage or seizure.

Only raise engine speed after running the engine for 60 seconds to allow the engine oil to circulate fully.



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.

- Make sure that the low oil pressure warning light remains off and the oil pressure message is not shown in the instrument display screen.
- Stop the engine and recheck the oil level. Adjust if necessary.

Disposal of Used Engine Oil and Oil Filters

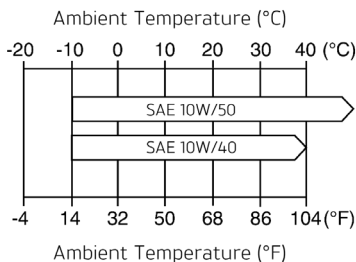
To protect the environment, do not pour oil on the ground, down sewers or drains, or into watercourses. Do not place used oil filters in with general waste. If in doubt, contact your local authority.

Maintenance

Engine Oil Specification and Grade (10W/40 & 10W/50)

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.



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

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

The motorcycle is fitted with D2053 coolant, a year round, Organic Additive Technology (known as OAT) coolant when it leaves the factory. It is coloured orange, and contains a 50% solution of monoethylene glycol based antifreeze.

D2053 coolant, as supplied by Triumph, provides freeze protection to -40°C (-40°F).

Corrosion Inhibitors

Warning

D2053 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 contains toxic chemicals that are harmful to the human body.

Contact with skin or eyes may cause severe irritation. Wear protective gloves, clothing and eye protection when handling coolant.

If coolant is inhaled, remove the person to fresh air and keep comfortable for breathing. In case of doubt or persistent symptoms, seek medical attention.

If coolant gets on your skin, flush with water immediately. Remove contaminated clothing.

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

If coolant is swallowed, rinse the mouth with water and **SEEK MEDICAL ATTENTION IMMEDIATELY.**

KEEP COOLANT OUT OF THE REACH OF CHILDREN.

Note

D2053 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.

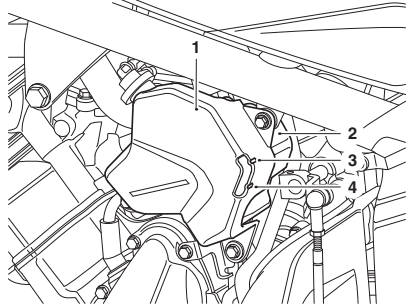
If coolant containing a corrosion inhibitor is not used, the cooling system will accumulate rust and scale in the water jacket and radiator. This will block the coolant passages, and considerably reduce the efficiency of the cooling system.

Coolants of different types must not be mixed. Mixing coolants of different types will reduce the performance of the coolant and reduce its life. When replacing coolant, it is recommended to thoroughly flush the cooling system with clean water.

Coolant Level Inspection

Note

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



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

Maintenance

To inspect the coolant level:

- Position the motorcycle on level ground and in an upright position. The expansion tank can be viewed from the left hand side of the motorcycle, below and towards the front of the fuel tank.
- Check the coolant level in the expansion tank. The coolant level must be between the MAX and MIN 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.

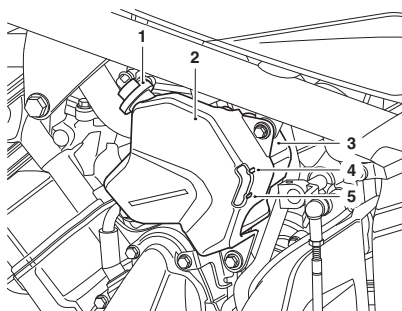
When the engine is hot, the coolant inside the radiator will be hot and also under pressure.

Contact with this hot, pressurised coolant will cause scalds and skin damage.

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.



1. **Expansion tank cap**
2. **Expansion tank cover**
3. **Expansion tank**
4. **MAX mark**
5. **MIN mark**

To adjust the coolant level:

- Allow the engine to cool.
- Remove the expansion tank cap.
- Add coolant mixture through the filler opening until the level reaches the MAX mark.
- Refit the extension tank cap.

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 the recommended coolant as soon as possible.

Coolant Change

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

Radiator and Hoses

Warning

The fan operates automatically when the engine is running.

Always keep hands and clothing away from the fan.

Contact with the rotating fan may cause an accident and/or personal injury.

Caution

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

Do not obstruct or deflect airflow through the radiator by installing 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 tension 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.

Maintenance

Throttle Control

Warning

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.

- If there is an incorrect amount of free play, Triumph recommends that you have your authorised Triumph dealer investigate.
- Check that there is 1-2 mm of throttle grip free play when lightly turning the throttle grip back and forth.

Throttle Inspection

Warning

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.

To inspect the throttle:

- 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.

Clutch

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

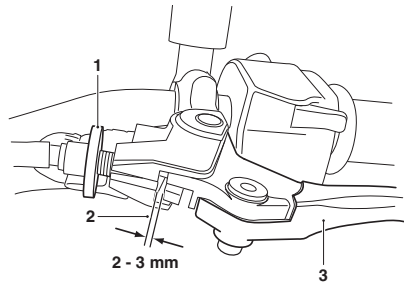
Check that there is 2 - 3 mm clutch lever free play at the lever.

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

Clutch Adjustment

To adjust the clutch:

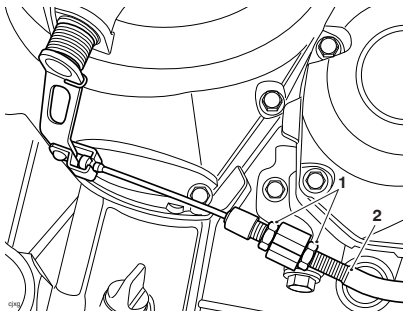
- Turn the adjuster sleeve until the correct amount of clutch lever free play is achieved.



1. Clutch lever
 2. Adjuster sleeve (lock nut fully released)
 3. Correct clearance 2-3 mm
- 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.

Maintenance

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



1. Adjuster lock nuts
2. Clutch outer cable

- Loosen the adjuster lock nut.
- Turn the outer cable adjuster to give 2-3 mm of free play at the clutch lever.
- Tighten the lock nut to 3.5 Nm.

Drive Chain



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 the scheduled maintenance requirements. Checking, adjustment and lubrication must be carried out more frequently for extreme conditions such as high speed riding, 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 lubricant to penetrate to the drive chain O-rings etc.
- Before riding, wipe off any excess lubricant.
- If the drive chain is especially dirty, clean first and then apply lubricant as mentioned above.

⚠ Caution

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

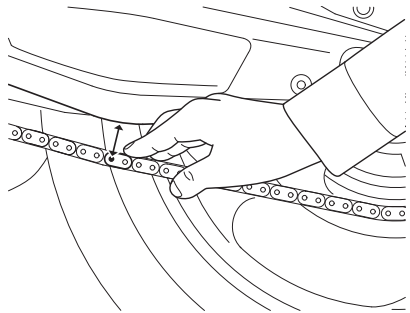
Drive Chain Free Movement Inspection

⚠ Warning

Make sure the motorcycle is stabilised and adequately supported.

A correctly supported motorcycle will help prevent it from falling.

An unstable motorcycle may fall, causing injury to the operator or damage to the motorcycle.



To inspect the drive 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.
- Stretch the chain taut by applying pressure on the chain.
- Measure from the bottom of the swingarm to the centre of the chain pin, as shown in the illustration.
- The measurement must be in the range of 43–55 mm.

Maintenance

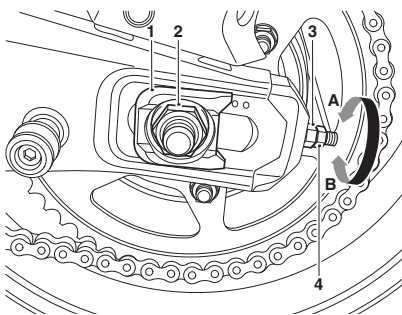
- If the measurement exceeds the range, then the chain needs to be adjusted, see page 102.

Drive Chain Free Movement Adjustment

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.



1. Spindle adjuster
2. Rear wheel spindle nut
3. Adjuster nut
4. Adjuster lock nut

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

- Loosen the rear wheel spindle nut.
- Loosen the adjuster lock nut on both the left and right hand side drive chain adjusters.
- Turn both the left and right hand adjuster nuts clockwise (A) to decrease drive chain free movement and anticlockwise (B) to increase drive chain free movement.
- Make sure that both the left and right hand adjuster nuts are set to the same measurement.
- When the correct amount of drive chain free movement has been set (43 mm), tighten the rear wheel spindle nut to 110 Nm.
- Repeat the drive chain adjustment check. Readjust if necessary.
- Tighten both left and right hand side adjuster nuts to 3 Nm.
- Hold the adjuster nuts in place, and tighten the adjuster lock nuts to 15 Nm.
- Repeat the drive chain adjustment check. Readjust if necessary.
- Check the rear brake effectiveness. Rectify if necessary.

Warning

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.

Drive Chain and Sprocket Wear Inspection

Warning

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

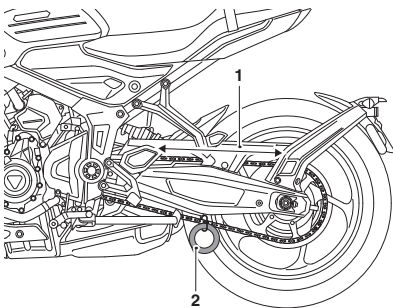
Use a genuine Triumph supplied drive chain as specified in the Triumph Parts Catalogue.

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

Caution

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

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

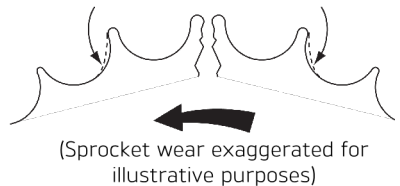


1. Measure across 20 links
2. Weight

To inspect the drive chain and sprocket wear:

- Remove the chain guard.
- 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 319 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) Worn Tooth (Rear Sprocket)



cool

- If there is any irregularity, have the drive chain and/or the sprockets replaced by an authorised Triumph dealer.
- Refit the chain guard, tightening the fixings to 4 Nm.

Maintenance

Brakes

Breaking in New Brake Pads and Discs

Warning

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

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

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

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.

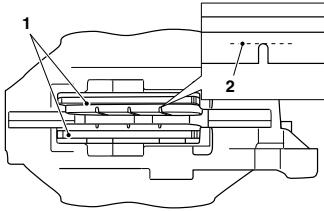
Front Brake Wear Inspection

Warning

If fitting new proprietary brand brake pads, check that the brake backing plate of the brake pad is the specified thickness shown in the table.

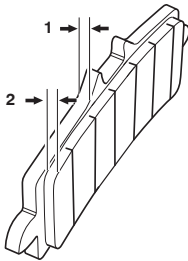
Fitting brake pads with the brake backing plate less than the specified thickness may result in brake failure due to the possible loss of the brake pad as it wears.

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



cbnz_1

1. Carrier plate
2. Brake pad



ofba_2

1. Carrier plate
2. Brake pad lining

Brake pads for this model supplied by Triumph will have the carrier plate at the recommended thickness. Always have replacement brake pads supplied and fitted by your Triumph dealer.

If the lining thickness of any brake pad is less than that specified in the table, replace all the brake pads on the wheel.

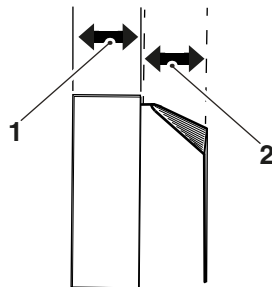
Minimum Brake Pad Lining Thickness	1.5 mm
Minimum Carrier Plate Thickness	4.0 mm
Minimum Service Thickness (Brake Pad Lining and Carrier Plate)	5.5 mm

Rear Brake Wear Inspection

Warning

If fitting new proprietary brand brake pads, check that the brake backing plate of the brake pad is the specified thickness shown in the table.

Fitting brake pads with the brake backing plate less than the specified thickness may result in brake failure due to the possible loss of the brake pad as it wears.



1. Carrier plate
2. Brake pad lining

Brake pads supplied by Triumph will have the carrier plate at the recommended thickness. Always have replacement brake pads supplied and fitted by your Triumph dealer.

Maintenance

If the lining thickness of any brake pad is less than that specified in the table, replace all the brake pads on the wheel.

Minimum Brake Pad Lining Thickness	1.5 mm
Minimum Carrier Plate Thickness	3.0 mm
Minimum Service Thickness (Brake Pad Lining and Carrier Plate)	4.5 mm

Disc Brake Fluid

Warning

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

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

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

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

Do not mix different brands or grades of brake fluid.

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

Always rectify any faults before riding.

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

Warning

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

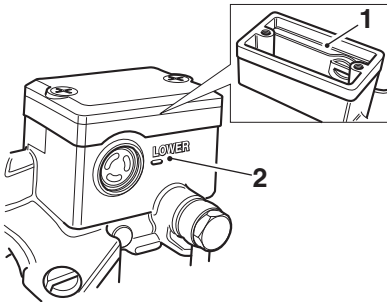
A special tool is required to bleed the ABS braking system. Contact your authorised Triumph dealer when the brake fluid needs renewing or the hydraulic system requires maintenance.

Front Brake Fluid Level Inspection and Adjustment

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. Front brake fluid reservoir, upper level line
2. Lower level line

To inspect the front brake fluid level:

- Check the level of brake fluid visible in the window at the front of the reservoir unit.
- 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 reservoir 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 reservoir cap and the reservoir body.
- Tighten the reservoir cap retaining screws to 1 Nm.

Rear Brake Fluid Level Inspection and Adjustment

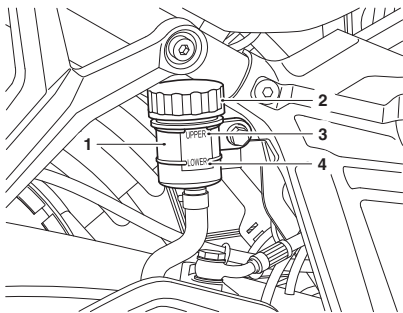
Warning

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.

Maintenance

The reservoir is visible from the right hand side of the motorcycle, forward of the silencer, below the rider's seat.



1. **Rear brake fluid reservoir**
2. **Reservoir cap**
3. **Upper level line**
4. **Lower level line**

To inspect the rear brake fluid level:

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

To adjust the rear brake fluid level:

- Release the reservoir cap and remove 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 fitted.

Brake Light Switches

Warning

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

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

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

Warning

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.

Warning

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

Warning

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.

Caution

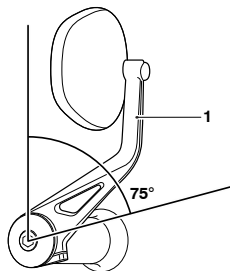
Incorrect adjustment of the bar end mirrors may cause the mirror arm to contact the fuel tank, brake or clutch levers or other parts of the motorcycle.

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.

Maintenance

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

Caution

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.

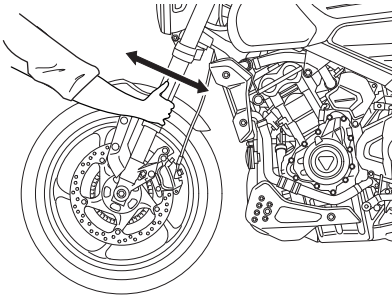
Do not exert extreme force against each wheel or rock each wheel vigorously as this may cause the motorcycle to become unstable and cause injury by falling from its support.

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

Steering Inspection

Warning

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



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 outer tube 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.

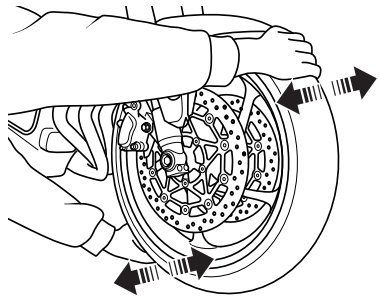
Wheel Bearings Inspection

Warning

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.

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.

Maintenance

- Reposition the lifting device and repeat the procedure for the rear wheel.
- Remove the support and place the motorcycle on the side stand.

Note

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.

Suspension

Warning

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

Warning

Never attempt to dismantle any part of the suspension units

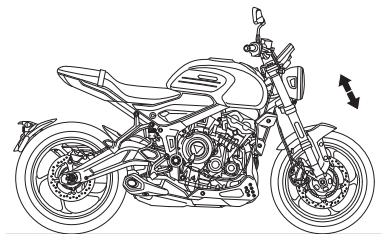
All suspension units contain pressurised oil.

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

Front Suspension

The front suspension is not adjustable.

Front Fork Inspection



Inspecting the Front Forks

To inspect the front forks:

- 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.
- 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.

Rear Suspension Settings

The motorcycle is delivered from the factory with all the suspension settings set at the Solo Riding setting as shown in the suspension settings table. The Solo Riding suspension settings provide a comfortable ride and good handling characteristics for general, solo riding.

The details shown in the suspension settings table are only a guide. Setting requirements may vary for rider and passenger weight and personal preferences.

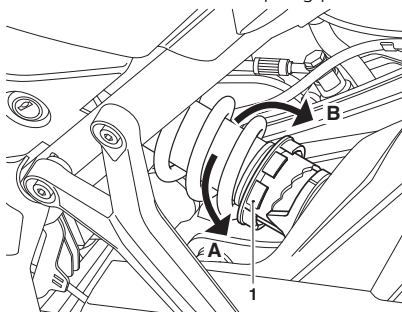
Loading Condition	Spring Preload ¹
Solo Riding	1
Solo Riding with Accessories/ Loading (not exceeding limits)	1
Rider and Passenger	7
Rider and Passenger with Accessories/Loading (not exceeding limits)	7

¹Position 1 is minimum (fully clockwise) and position 7 is maximum (fully anticlockwise).

Rear Suspension Spring Preload Adjustment

The spring preload adjuster is located at the bottom of the rear suspension unit.

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.



1. Spring preload adjuster ring

A. Anticlockwise direction

B. Clockwise direction

To change the rear suspension spring preload setting:

- Locate the C spanner supplied in the tool kit.
- Insert the C spanner into the slots of the spring preload adjuster ring.
- Turn the spring preload adjuster ring anticlockwise (shown as direction A in the diagram) towards the left hand side of the motorcycle to increase spring preload.

Maintenance

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

Bank Angle Indicators

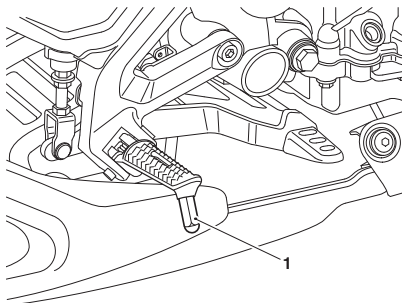
Warning

Always replace the bank angle indicators before they are worn to their maximum limit.

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.

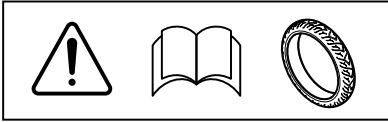


1. Bank angle indicator

Bank angle indicators must be replaced when they have worn down to the maximum wear limit of 15 mm in length remaining. The maximum wear limit is shown by a groove on the bank angle indicator.

Regularly check the bank angle indicators for wear.

Tyres



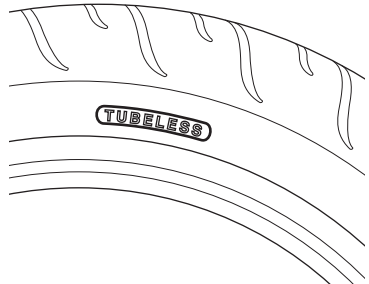
This model is fitted with tubeless tyres, valves and wheel rims. Use only tyres marked 'TUBELESS' and tubeless valves on rims marked 'SUITABLE FOR TUBELESS TYRES'.

Warning

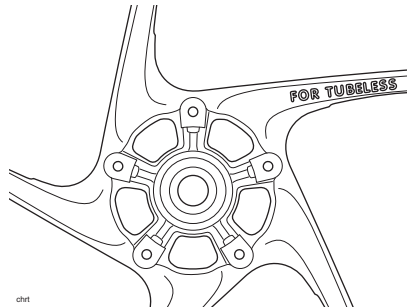
Do not install tube type tyres on tubeless rims.

The bead will not seat and the tyres could slip on the rims, causing rapid tyre deflation that may result in a loss of motorcycle 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 motorcycle control and an accident.



Typical Tyre Marking–Tubeless Tyre



Typical Wheel Marking–Tubeless Tyre

Maintenance

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.

Under inflation 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.

Warning

Tyre pressures which have been reduced for off-road riding will impair on-road stability.

Always make sure that the tyre pressures are set as described in the Specification section for on-road use.

Operation of the motorcycle with incorrect tyre pressures may cause loss of motorcycle control and 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 Pressure Monitoring System (TPMS) (if fitted)

Caution

An adhesive label is fitted to the wheel rim to indicate the position of the tyre pressure sensor.

Care must be taken when replacing the tyres to prevent any damage to the tyre pressure sensors.

Always have your tyres fitted by your authorised Triumph dealer and inform them that tyre pressure sensors are fitted to the wheels.

Caution

Do not use anti puncture fluid or any other item likely to obstruct air flow to the TPMS sensor's orifices. Any blockage to the air pressure orifice of the TPMS sensor during operation will cause the sensor to become blocked, causing irreparable damage to the TPMS sensor assembly.

Damage caused by the use of anti puncture fluid or incorrect maintenance is not considered a manufacturing defect and will not be covered under warranty.

Always have your tyres fitted by your authorised Triumph dealer and inform them that tyre pressure sensors are fitted to the wheels.

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

Only adjust tyre pressures when the tyres are cold using an accurate pressure gauge. Do not use the tyre pressure display on the instruments.

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

Warning

Riding 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. Riding 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. Riding with damaged or defective wheels or tyres is dangerous and may lead to loss of control and an accident.

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 (130 km/h)	Front 2 mm (0.08 in) Rear 3 mm (0.12 in)

Maintenance

Tyre Replacement

All Triumph motorcycles are carefully and extensively tested in a range of riding conditions to make sure 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, are used when 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.

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.

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.

Warning

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.

Warning

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 motorcycle 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 motorcycle control and an accident.

Warning

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.

Warning

If tyre damage is suspected, such as after striking the kerb, ask your authorised Triumph dealer to inspect the tyre both internally and externally.

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.

Warning

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.

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 motorcycle control and an accident in conditions where the ABS would normally function.

Warning

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

When wheel balancing is required, such as after 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.

Maintenance

Warning

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.

Battery

Warning

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

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

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

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

KEEP BATTERY ACID OUT OF THE REACH OF CHILDREN.

Warning

Under certain circumstances, the battery may release explosive gases. Make sure to keep all sparks, flames and cigarettes away from the battery.

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.

Make sure that there is adequate ventilation when charging or using the battery in an enclosed space.

Warning

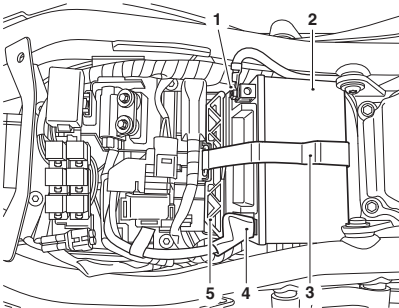
The battery contains harmful materials. Always keep children and pets away from the battery at all times.

Battery Removal

Warning

Make sure that the battery terminals do not touch the motorcycle frame.

This may cause a short circuit or spark which would ignite battery gases causing a risk of personal injury.



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

To remove the battery:

- Remove the seat. (see page 63).
- Unhook the battery strap from its hook near the battery spacer.
- Remove the battery spacer.

- Disconnect the battery leads, negative (black) lead first and then the positive lead.
- Remove the battery from its housing.

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.

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.

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

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

Maintenance

Battery Discharge

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

Battery Discharge During Storage and Infrequent Use of the Motorcycle

During storage or infrequent use of the motorcycle, inspect the battery voltage weekly using a 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

Warning

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

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

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

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

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

KEEP BATTERY ACID OUT OF THE REACH OF CHILDREN.

⚠ 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.

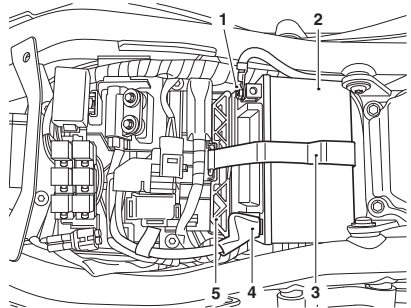
Similarly, should the battery charge fall to a level where it will not start the motorcycle, remove the battery from the motorcycle before charging.

Battery Installation

⚠ Warning

Make sure that the battery terminals do not touch the motorcycle frame.

This may cause a short circuit or spark which would ignite battery gases causing a risk of personal injury.



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

To install the battery:

- Position the battery into its housing.
- Insert the battery spacer.
- Refit the battery strap.
- Reconnect the battery, positive (red) lead first and then the negative lead.
- Tighten the battery terminals to 4.5 Nm.
- Apply a light coat of grease to the terminals to prevent corrosion.
- Cover the positive terminal with the protective cap.
- Refit the seat, (see page 63).

Maintenance

Fuses

Warning

Always replace blown fuses with new ones of the correct rating (as specified on the fuse box cover).

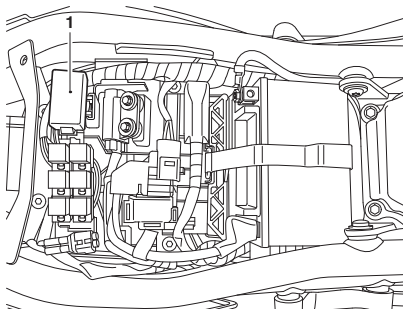
Never replace a blown fuse with a fuse of a different rating.

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

Note

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

Fuse box no.1 is located underneath the seat. This fuse box contains the main fuses. To allow access to the fuse box, the seat must be removed (see page 63).



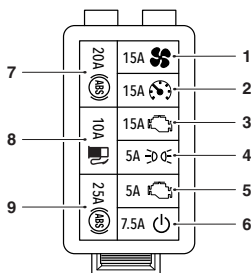
1. Fuse box no.1

Fuse box no.2 is located under the plastic fuel tank cover and contains the ABS ECU and diagnostic fuses.

Fuse Identification

Spare fuses are located on the inside of the fuse box covers and should be replaced if used.

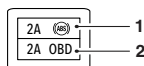
Fuse Box 1



Fuse Box 1

Position	Circuit Protected	Rating (Amps)
1	Cooling Fan	15
2	Instruments	15
3	Engine Management System (EMS)	15
4	Position Lighting	5
5	Engine Control Unit (ECU)	5
6	Ignition	7.5
7	ABS Solenoid	20
8	Fuel Pump	10
9	ABS Motor	25

Fuse Box 2



Fuse Box 2

Position	Circuit Protected	Rating (Amps)
1	ABS ECU	2
2	Diagnostics	2

Headlight



Warning

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

Make sure that the headlight 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.

Warning

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.

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.

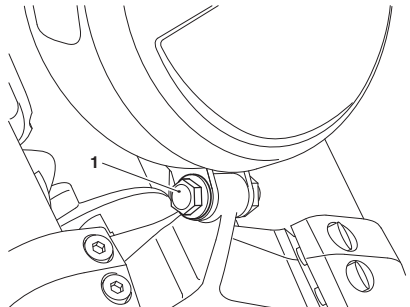
Covering the headlight lens during operation with items of clothing, luggage, adhesive tape, devices intended to alter or adjust the headlight beam or non genuine headlight lens covers will cause the headlight lens to overheat and distort, causing irreparable damage to the headlight assembly.

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

The headlight can only be vertically adjusted.



1. Headlight assembly mounting bolt

Maintenance

To vertically adjust the headlight beam:

- Switch the ignition on. The engine does not need to be running.
- Switch the headlight dipped beam on.
- Always make sure the handlebars are in the straight ahead position.
- Loosen the headlight assembly mounting bolt securing the headlight bracket to the front subframe sufficiently to allow restricted movement of the headlights.
- Adjust the position of the headlight to give the required beam setting.
- Tighten the headlight assembly mounting bolts to 26 Nm.
- Recheck the headlight beam settings.
- Switch the headlights off when the beam settings are satisfactorily set.

Headlight Replacement

The headlight unit is a sealed, maintenance free LED unit. The headlight unit must be replaced in the event of the failure of the headlight.

Direction Indicator Lights

The direction indicator light units are sealed, maintenance free LED units. A direction indicator light unit must be replaced in the event of the failure of the direction indicator light.

Rear Light

The rear light unit is a sealed, maintenance free LED unit. The rear light unit must be replaced in the event of the failure of the rear light.

License Plate Light

The license plate light unit is a sealed, maintenance free LED unit. The license plate light unit must be replaced in the event of the failure of the license plate light.

Cleaning and Storage

Table of Contents

Cleaning.....	128
Preparation for Washing.....	128
Where to be Careful.....	129
Washing.....	130
After Washing.....	130
Care of Gloss Paintwork.....	131
Care of Matt Paintwork.....	131
Aluminium Items—not Lacquered or Painted.....	131
Cleaning of Chrome and Stainless Steel Items.....	132
Black Chrome.....	132
Cleaning of the Exhaust System.....	133
Seat Care.....	134
Windscreen Cleaning (if fitted).....	134
Care of Leather Products.....	135
Storage.....	136

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

Caution

Do not use high pressure spray washers or steam cleaners.

Use of high pressure spray washers and steam cleaners may damage seals, and cause water and steam to be forced into bearings and other components causing premature wear from corrosion and loss of lubrication.

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.

Do not get water near the following places:

- Air intake duct
- Any visible electrical components
- Brake cylinders and brake calipers
- Handlebar switch housings
- Headstock bearings
- Instruments
- Oil filler cap
- Rear bevel box breather (if fitted)
- Rear of headlights
- Seats
- Suspension seals and bearings
- Under the fuel tank

- 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.

Cleaning and Storage

Washing

To wash the motorcycle, do the following:

- Make sure that the motorcycle engine is cold.
- Prepare a mixture of clean, 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 clean, cold water.

After Washing

Warning

Never wax or lubricate the brake discs. Always clean the brake disc with a proprietary brand of oil-free brake disc cleaner.

Waxed or lubricated brake discs may cause loss of braking power and an accident.

After washing the motorcycle, do the following:

1. Remove the plastic bags and tape, and clear the air intakes.
2. Lubricate the pivots, bolts and nuts.
3. Test the brakes before motorcycle operation.
4. 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.
5. 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 previously, 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 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 and Storage

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

 Caution
The use of products containing silicone will cause discolouration of the chrome and stainless steel parts and must not be used.
The use of abrasive cleaning products 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



Caution

The use of products containing silicone will cause discolouration of the chrome and stainless steel parts and must not be used.

The use of abrasive cleaning products will damage the finish 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.

Cleaning and Storage

Seat Care

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)



Warning

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.

Caution

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

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 clean, 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

It is recommended that the leather products are periodically cleaned with a damp cloth and allowed to dry naturally at room temperature. This will maintain the appearance of the leather and ensure the long life of the product.

The Triumph leather product is a natural product and lack of care can result in damage and permanent wear.

Follow these simple instructions to prolong the life of the leather product:

- Do not use household cleaning products, bleach, detergents containing bleach or any kind of solvent to clean the leather product.
- Do not immerse the leather product in water.
- Avoid direct heat from fires and radiators which can dry out and distort the leather.
- Do not leave the leather product in direct sunlight for prolonged periods of time.
- Do not dry the leather product by applying direct heat to it at any time.
- If the leather product does get wet, absorb any excess water with a soft clean cloth then leave the leather product to dry naturally at room temperature.
- Avoid exposure of the 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.

Cleaning and Storage

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

Storage

Preparation for Storage

To prepare the motorcycle for storage, do the following:

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

Warning

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 the spark plug from each cylinder and put several drops (5 cc) of engine oil into each cylinder. Cover the spark plug holes with a piece of cloth or rag. With the engine stop switch in the RUN position, push the starter button for a few seconds to coat the cylinder walls with oil. Install the spark plugs, tightening to 12 Nm.
- Change the engine oil and filter (see page 92).
- Check and if necessary correct the tyre pressures (see the relevant Specification section).

- 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 numerous products on the market and your dealer will be able to offer you local advice) on all unpainted metal surfaces to prevent rusting. Prevent oil from getting on rubber parts, brake discs or in the brake calipers.
- Lubricate and if necessary adjust the drive chain (see page 100).
- Make sure the cooling system is filled with a 50% mixture of coolant (noting that D2053 OAT coolant, as supplied by Triumph, is premixed and requires no dilution) and distilled water solution (see page 94).
- 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 122).
- 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

To prepare the motorcycle to be ridden after storage, do the following:

- Install the battery (if removed) (see page 123).
- If the motorcycle has been stored for more than four months, change the engine oil (see page 92).
- 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.
- Refit the spark plugs, tightening to 12 Nm, and start the engine.
- Check and if necessary correct the tyre pressures (see the relevant Specification section).
- Clean the entire vehicle thoroughly.
- Check the brakes for correct operation.
- Test ride the motorcycle at low speeds.

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Specifications

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	Trident
Maximum Payload	205 kg (452 lb)
Engine	Trident
Type	In-line 3 cylinder
Displacement	660 cc
Bore x Stroke	74.04 x 51.1 mm
Compression Ratio	11:95:1
Cylinder Numbering	Left to Right
Cylinder Sequence	1 at left
Firing Order	1-2-3
Lubrication	Trident
Lubrication System	Wet sump
Engine Oil Capacities:	
Dry Fill	3.40 litres
Oil/Filter Change	3.00 litres
Oil Change Only	2.80 litres
Cooling System	Trident
Coolant Type	Triumph D2053 OAT coolant (premixed)
Water/Antifreeze Ratio	50/50 (premixed as supplied by Triumph)
Coolant Capacity	2.36 litres
Thermostat Opens (nominal)	71°C
Fuel System	Trident
Type	Electronic fuel injection
Injectors	Solenoid operated
Fuel Pump	Submerged electric
Fuel Pressure (nominal)	3.5 bar

Specifications

Fuel	Trident
Type	91 RON unleaded
Tank Capacity (motorcycle upright)	17.4 litres

Ignition	Trident
Ignition System	Digital inductive
Electronic Rev Limiter	10,500 r/min
Spark Plug	NGK CR9EK
Spark Plug Gap	0.60-0.75 mm
Gap Tolerance	+/- 0.075 mm

Transmission	Trident
Transmission Type	6 speed, constant mesh
Clutch Type	Wet, multiplate
Final Drive Chain	RK 520 KMW, 520 chain, 120 link
Primary Drive Ratio	1.854 (41/76)
Gear Ratios:	
Final Drive Ratio	3.188 (16/51)
1st	2.867 (15/43)
2nd	2.053 (19/39)
3rd	1.565 (23/36)
4th	1.286 (21/27)
5th	1.107 (28/31)
6th	0.967 (30/29)

Warning

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	Trident
Tyre Sizes:	
Front	120/70 ZR17 58W
Rear	180/55 ZR17 73W
Tyre Pressures (Cold):	
Front	2.34 bar (34 lb/in ²)
Rear	2.90 bar (42 lb/in ²)

Electrical Equipment	Trident
Battery Type	YTX9-BS
Battery Rating	12 Volt, 8 Ah
Alternator	14 Volt, 34 Amp at 5,000 rpm
Front Position Light	LED
Headlight	LED
Tail/Brake Light	LED
Licence Plate Light	12 Volt, 5 Watt
Direction Indicator Lights	12 Volt, 10 Watt

Frame	Trident
Rake	24.9°
Trail	111 mm

Tightening Torques	Trident
Battery Terminals	4.5 Nm
Chain Adjuster Nuts	3 Nm
Chain Adjuster Lock Nuts	15 Nm
Chain Guard	9 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

Specifications

Fluids and Lubricants	Trident
Bearings and Pivots	Grease to NLGI 2 specification
Brake Fluid	DOT 4 brake fluid
Coolant	Triumph D2053 OAT coolant (premixed)
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.

Index

- A**
- Accessories.....81
 - Brake Lever.....25
 - Anti-lock Braking System (ABS).....45
- B**
- Bank Angle Indicators.....114
 - Battery.....121
 - Charging.....123
 - Discharge.....122
 - Disposal.....121
 - Installation.....123
 - Maintenance.....121
 - Removal.....121
 - Storage.....122
 - Brakes.....104
 - Breaking in New Pads and Discs.....104
 - Disc Brake Fluid.....106
 - Front Brake Fluid Adjustment.....107
 - Front Brake Fluid Inspection.....107
 - Front Brake Fluid Reservoir.....107
 - Front Brake Wear Inspection.....105
 - Light Switches.....108
 - Rear Brake Fluid Level Adjustment.....108
 - Rear Brake Fluid Level Inspection.....108
 - Rear Brake Fluid Reservoir.....108
 - Rear Brake Wear Inspection.....105
- C**
- Cleaning
 - After Washing.....130
 - Aluminium Items—not Lacquered or Painted.....131
 - Black Chrome Items.....132
 - Care of Leather Products.....135
 - Chrome and Stainless Steel.....132
 - Drying.....133
 - Exhaust System.....133
 - Frequency of Cleaning.....128
 - Gloss Paintwork.....131
 - Matt Paintwork.....131
 - Preparation for Washing.....128
 - Protecting.....133
 - Seat Care.....134
 - Washing.....130
 - Washing the Exhaust.....133
 - Where to be Careful.....129
 - Windscreen.....135
 - Clock.....51
 - Clutch.....99
 - Adjustment.....99
 - Inspection.....99
 - Clutch Lever.....26
 - Coolant Temperature Gauge.....36
 - Cooling System.....94
 - Coolant Change.....97
 - Coolant Level Adjustment.....96
 - Coolant Level Inspection.....96
 - Corrosion Inhibitors.....95
 - Specifications.....139
- D**
- Direction Indicators.....45
 - Lights.....126
 - Warning Light.....33
 - Display Setup.....48

Index

Drive Chain.....	100
Free Movement Adjustment.....	102
Free Movement Inspection.....	101
Lubrication.....	100
Wear Inspection.....	103

E

Electrical Equipment	
Specifications.....	141
Engine	
Moving Off.....	70
Specifications.....	139
To Start the Engine.....	69
To Stop the Engine.....	68
Engine Oil.....	91
Disposal of Oil and Filters.....	93
Low Oil Pressure Warning Light.....	32
Oil and Oil Filter Change.....	92
Oil Level Inspection.....	91
Specification and Grade.....	94
Engine Start/Stop Switch	
RUN Position.....	26
START Position.....	26
STOP Position.....	26

F

Fluids	
Specifications.....	142
Frame	
Specifications.....	141
Front Fork Inspection.....	112
Fuel	
Consumption.....	39
Filling the Fuel Tank.....	56
Fuel Grade.....	54
Fuel Tank Cap.....	55
Gauge.....	35
Refuelling.....	55
Specifications.....	140
System Specifications.....	139
Fuses	
Identification.....	124
Location.....	124

G

Gear	
Position Display.....	41
Gears	
Changing Gears.....	71
Shift Indicator Display.....	49

H

Hazards	
Warning Lights.....	26, 34
Headlight.....	125
High Beam Warning Light.....	34
High Speed Operation.....	79

I

Ignition	
Ignition Key.....	24
Ignition Switch/Steering Lock.....	23
Specifications.....	140
Immobiliser	
Indicator Light.....	33

Instruments	
Bike Set Up Menu	44
Clock	51
Coolant Temperature Gauge	36
Date	52
Display Brightness	40, 48
Display Setup	48
Fuel Gauge	35
Instrument Display Layout	31
Language	50
Main Menu	42
Odometer	34
Reset to Defaults	53
Rider Name Display	50
Riding Modes	43
Service	36
Shift Indicator	49
Speedometer	34
Tachometer	35
Trip Meters	37
Trip Setup	46
Tyre Pressure Monitoring System (TPMS)	40
Units	50
Visible Tray	49
Warning Lights	32
L	
Left Handlebar Switches	27
Direction Indicator Switch	27
High Beam Button	27
Horn Button	27
Mode Button	27
Navigation Buttons	27
License Plate Light	126
Lights	
Directional Indicators	126
Hazards	26, 34
Headlight	125
Headlight Adjustment	125
Headlight Replacement	126
License Plate	126
Rear Light	126
Loading	83
Lubrication	
Specifications	139
M	
Maintenance	
Scheduled Maintenance	87
Mirrors	109
Bar End Mirrors	109
O	
Odometer	34
Owner's Handbook	63
P	
Parking	77
Parts Identification	
Left Hand Side	16
Rider View	18
Right Hand Side	17
Passengers	84
Payload	
Specifications	139
R	
Rear Light	126
Riding Modes	37
Rain	38
Road	37
Selection	39
Right Handlebar Switches	26
Engine Start/Stop Switch	26
Hazard Warning Lights Switch	26, 34
Running-In	64
S	
Safety	
Daily Safety Checks	65
Fuel and Exhaust Fumes	8
Handlebars and Footrests	12, 12
Helmet and Clothing	8
Maintenance and Equipment	3
Motorcycle	7
Parking	9
Parts and Accessories	10, 81
Riding	11

Index

Scheduled Maintenance Table	87	Tyre Pressure Monitoring System (TPMS)	58
Seats	62	Display Information	40
Install	63	Replacement Tyres	60
Removal	63	Sensor Batteries	60
Seat Care	134	Sensor Serial Number	60
Seat Lock	62	Tyre Pressure Warning Light	59
Serial Numbers		Tyre Pressures	59, 117
Engine Serial Number	19	Tyres	150
Vehicle Identification Number	19	Minimum Tread Depth	117
Service Interval	46	Replacement	60, 118
Side Stand	61	Specifications	141
Speedometer	34	Tyre Inflation Pressures	116
Steering		Tyre Type	115
Inspection	111	Tyre Wear	117
Wheel Bearing Inspection	111	W	
Storage		Warning Messages	42
Preparation after Storage	137	Warnings	3
Preparation for Storage	136	Maintenance	3
Suspension	112	Noise Control System	4
Rear Suspension Adjustment	113	Owner's Handbook	4
Rear Suspension Settings	113	Warning Label Locations	14, 15
T		Warning Labels	3
Tachometer	35	Warning Lights	32, 32
Throttle Control	28, 98	Wheels	
Inspection	98	Wheel Bearing Inspection	111
Tool Kit	63	Windscreen	
Torque Specifications	141	Cleaning	135
Traction Control (TC)	46, 57		
Settings	57		
Transmission			
Specifications	140		
Trip Meters	37		
Automatic Reset	47		
Manual Reset	47		
Setup Menu	46		
Trip 2 Enable/Disable	48		
Triumph Shift Assist (TSA)	72		

Approval Information

This section contains approval information that is required to be included in this Owner's Handbook.

Radio Equipment Device EU Directive 2014/53

Triumph motorcycles are equipped with a range of radio equipment devices. These radio equipment devices must comply with the EU Radio Equipment Device Directive 2014/53/EU. The complete text of the EU declaration of conformity for each radio equipment device is available at the following address:

www.triumphmotorcycles.co.uk/public-content/triumph-radio-device-approvals

The table below shows the frequencies and power levels for the radio equipment devices in compliance with the EU Directive 2014/53/EU. The table shows all radio equipment devices used across the Triumph range of motorcycles. Only certain radio equipment devices in the table are applicable to specific motorcycles.

Approval Information

Radio Equipment Device	Frequency Range	Maximum Transmit Power Level	Manufacturer
Chassis Control Unit	Receive Bands: 433.92 MHz, 134.2 kHz Category-2 Receiver Transmit Bands: 134.2 kHz Class 1 Transmitter Fixed Inductive Loop Coil Antenna	287 nW ERP	Pektron Alfreton Road, Derby, DE21 4AP UK
Keyless Control Unit	Receive Bands: 433.92 MHz, 134.2 kHz Category-2 Receiver Transmit Bands: 134.2 kHz Class 1 Transmitter Fixed Inductive Loop Coil Antenna	6.28 uW ERP	
Keyless Control Unit 2	Receive Bands: 433.92 MHz, 134.2 kHz Category-2 Receiver Transmit Bands: 134.2 kHz Class 1 Transmitter Fixed Inductive Loop Coil Antennas	3.01 uW ERP	
Keyless System Key Fob	Receive Bands: 134.2 kHz Category-2 Receiver Transmit Bands: 433.92 MHz, 134.2 kHz Class: N/A Antenna Type Fixed Antenna (PCB)	0.019 mW ERP	

Approval Information

Radio Equipment Device	Frequency Range	Maximum Transmit Power Level	Manufacturer
Immobiliser (Motorcycles with Key System)	Receive Bands: 433.92 MHz, 125 kHz Transmit Bands: 120.9 KHz to 131.3 KHz	5dB A/m @ 10m	LDL Technology Parc Technologique Du Canal, 3 Rue Giotto, 31520 Ramonville Saint-Agne, France
Tyre Pressure Monitoring System (TPMS)	Receive Bands: None Transmit Bands: 433.97 MHz to 433.87 MHz	0.063 mW	
Triumph Accessory Alarm System ECU	Receive Bands: 433.92 MHz Transmit Bands: None	N/A	
Triumph Accessory Alarm System Remote/Key Fob	Receive Bands: None Transmit Bands: 433.92 MHz	10 mW ERP	Scorpion Automotive Ltd Drumhead Road, Chorley North Business Park, Chorley, PR6 7DE UK
Accessory Alarm System ECU- Triumph Protect+	Receive Bands: 433.92 MHz Transmit Bands: None	N/A	
Accessory Alarm System Remote/ Key Fob-Triumph Protect+	Receive Bands: None Transmit Bands: 433.92 MHz	1 mW ERP	

Representative within the European Union

Address

Triumph Motocicletas Espana S.L.
C/Cabo Rufino Lazaro
14-E
28232-Las Rozas De Madrid
Spain

Approval Information

Industry Canada Statement

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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.