



Technical Bulletin 200

12.2019

Contents

Item	Subject	Model Affected
200.1	Camshaft Cover Tightening Sequence	Tiger Sport, Speed Triple S, Speed Triple R, Speed Triple RS
200.2	Replacement Keyless ECM Setup Process	Scrambler 1200 XC and Scrambler 1200 XE
200.3	Pin Point Test - ABS Modulator Communication	Bonneville T100 from VIN 759204, Street Scrambler up to VIN 910740, Thruxton 1200, Thruxton 1200 R, Street Twin up to VIN 914973, Bonneville T120, Bonneville Bobber, Bonneville Bobber Black, Speedmaster from VIN 856224, Street Cup
200.4	Cylinder Head Oil Jet	Speed Triple S, Speed Triple R from VIN 735337, Speed Triple RS
200.5	Owners Handbook Correction - Instrument Functionality	Tiger 800 XR from VIN 855532
200.6	Keyless Ignition	Scrambler 1200 XC and Scrambler 1200 XE
200.7	Torque Change	Tiger Sport
200.8	Torque Change	Scrambler 1200 XC, Scrambler 1200 XE
200.9	Windscreen Fixings	Tiger 1200 XR, Tiger 1200 XRX, Tiger 1200 XRX-LRH, Tiger 1200 XRT, Tiger 1200 XCX, Tiger 1200 XCA
200.10	Front Wheel Speed Sensor Routing	Speed Triple RS and Thruxton TFC

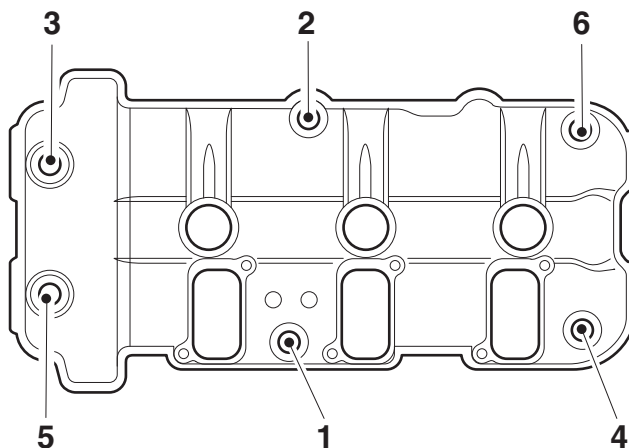
Item: 200.1

Description: Camshaft Cover Tightening Sequence

Model Affected: Tiger Sport, Speed Triple S, Speed Triple R, Speed Triple RS

The tightening sequence for the camshaft cover fixings for the above models has changed to the two stage sequence described below.

1. Fit the camshaft cover fixings and seals, then tighten until finger tight.
2. Tighten the fixings in the sequence shown below to 4 Nm.



Camshaft Cover Tightening Sequence

3. Finally, tighten the camshaft cover fixings to in the same sequence to 14 Nm.

When ordering replacement parts, refer to the EPC.

Please mark your copy of the Service Manual with this information. For electronic service manuals, store this information in a readily accessible place and refer to it when working on the relevant Triumph motorcycle. This information will be included in the next service manual update.

Item: 200.2

Description: Replacement Keyless ECM Setup Process

Model Affected: Scrambler 1200 XC and Scrambler 1200 XE

Replacement keyless ECMs can be setup on the above on the above models using the Triumph diagnostic tool.

The instruction below details the steps necessary to complete the setup process. This instruction replaces the process detailed in the Service Manual.

Note:

- **Before starting the setup procedure, make sure the battery voltage is at least 12.8 Volts.**
- **An approved battery charger suitable for use with maintenance free batteries, may be used to maintain battery charge during the setup process.**

Preliminary Steps

1. Download and install the latest version of the Triumph diagnostic tool to your computer as described in the Triumph Diagnostic Tool Installation Guide.
2. Install the replacement ECM.
3. Make sure you have all new keys ready.
4. Connect the Triumph diagnostic tool.

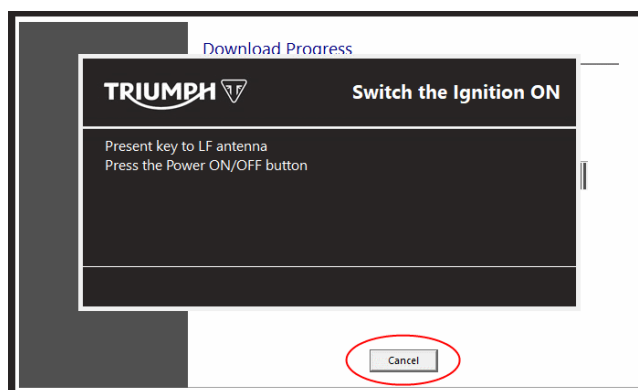
Update the Keyless ECM (Partial Update)

A partial keyless ECM update is required to install the software necessary to allow the first key to be paired. It is not possible to complete the full keyless ECM download until after the first key has been paired.

1. Navigate to DOWNLOAD - KEYLESS ECM DOWNLOAD.
2. Use manual model selection to select the correct keyless ECM calibration for your model and region.
3. Press the power ON/OFF button on the motorcycle.

Note:

- **The motorcycle will not visibly power ON.**
4. Within 10 seconds, click **Confirm** to start the calibration download.
 5. When prompted, turn the ignition OFF and click **Next**.
 6. Allow the download progress to reach 100%.
 7. When prompted to present a key and turn the ignition On, click **Cancel**.



8. Return to the Main Menu.

Pair the Smart key

1. Navigate to CHASSIS DIAGNOSTICS.
2. Press the power ON/OFF button on the motorcycle.

Note:

- **The motorcycle will not visibly power ON.**
3. Within 10 seconds, click **IMMOBILISER DIAGNOSTICS** and click **Connect**.
 4. When immobiliser diagnostics has connected, click **Configure**.
 5. Click **Add New Key**.
 6. Wait for the 300 second time delay to complete.
 7. When prompted, place the smart key on the LF antenna to pair it.
 8. When paired, click **Finish**.
 9. Press and release the smart key button.

Note:

- **Do not exit the immobiliser diagnostic session.**
- **Make sure the smart key is turned on and kept in range of the motorcycle for the remainder of this procedure.**

Update the Keyless ECM (Full Update)

It is now possible to download the full keyless ECM calibration.

1. Navigate to DOWNLOAD - KEYLESS ECM DOWNLOAD.
2. Use manual model selection to select the correct keyless ECM calibration for your model and region.
3. Click **Confirm** to start the calibration download.
4. Follow all on screen instructions and allow the download to complete as normal.
5. Click **Finish** when the download has completed.

Pair the Engine ECM

1. Switch the engine stop switch to the RUN position.
2. Navigate to CHASSIS DIAGNOSTICS - IMMOBILISER DIAGNOSTICS - Configure.
3. Click **Pair ECM and Immobiliser**.
4. Wait for the 300 second time delay to complete.
5. When paired, click **Finish**.

Pair the Passive Keys

1. Use the **Add New Key** function to pair the two passive keys.
2. When paired, return to the Main Menu.

Final Steps

1. Check all ECMs for stored DTCs and erase as necessary.
2. Make sure that the engine can be started using each key. After each key is tested, turn the ignition OFF and allow one minute for the motorcycle to fully power down before testing the next key.
3. If fitted, set up the Tyre Pressure Monitoring System as described in the Triumph Diagnostic Tool User Guide.

Please mark your copy of the Service Manual with this information. For electronic service manuals, store this information in a readily accessible place and refer to it when working on the relevant Triumph motorcycle. This information will be included in the next service manual update.

Item: 200.3

Description: Pin Point Test - ABS Modulator Communication

Model Affected: Bonneville T100 from VIN 759204, Street Scrambler up to VIN 910740, Thruxton 1200, Thruxton 1200 R, Street Twin up to VIN 914973, Bonneville T120, Bonneville Bobber, Bonneville Bobber Black, Speedmaster from VIN 856224, Street Cup

The pinpoint test for ABS Modulator Communication (DTC P1521) has changed for the above models . This information amends the pinpoint test contained in the Fuel System and Engine Management section of the current Service Manual.

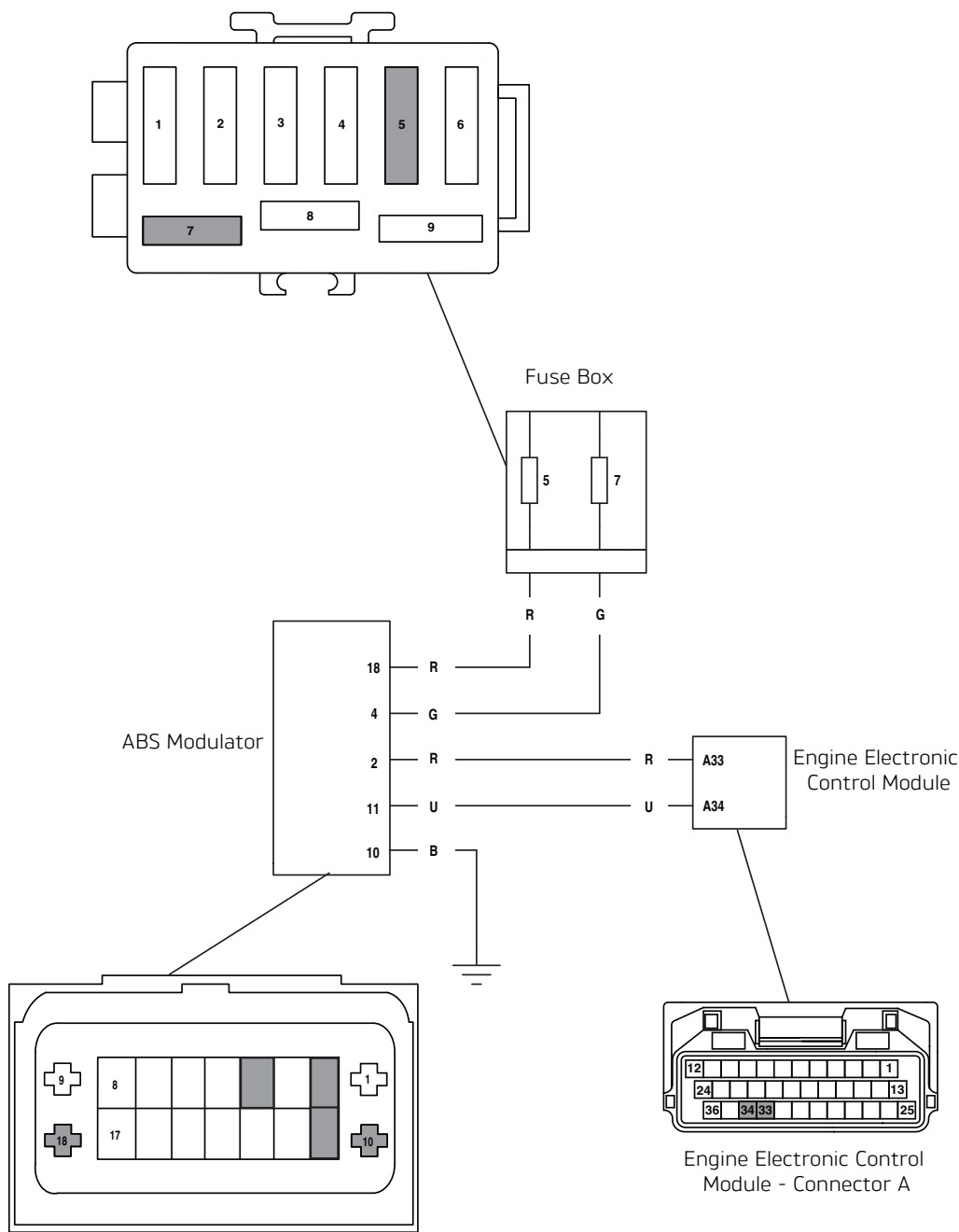
The revised pinpoint test is as described below.

Fault Code	Possible cause	Action
P1521	CAN fault - lost communication with ABS module or ABS system status error	View and note 'freeze-frame' data if available. Ensure ABS modulator connector is secure. Proceed to pinpoint test 1:

Pinpoint Tests

	Test	Result	Action
1	Check fuse box Fuse 5 and 7 integrity.	OK	Proceed to test 2
		Faulty	Rectify fault, proceed to test 6
2	Check cable and terminal integrity: - Engine ECM pin A33 - Engine ECM pin A34 - ABS modulator pin 2 - ABS modulator pin 4 - ABS modulator pin 10 - ABS modulator pin 11 - ABS modulator pin 18	OK	Disconnect the engine ECM and proceed to test 3
		Faulty	Rectify fault, proceed to test 6
3	Check cable for short circuit: - Engine ECM pin A33 to ground - Engine ECM pin A34 to ground	OK	Disconnect ABS modulator and proceed to test 4
		Faulty	Locate and rectify wiring fault, proceed to test 6
4	Check cable for short circuit: - ABS pin 2 to ground - ABS pin 11 to ground	OK	Proceed to test 5
		Faulty	Locate and rectify wiring fault, replace relevant fuse, proceed to test 6
5	Check cable continuity: - Engine ECM pin A33 to ABS pin 2 - Engine ECM pin A34 to ABS pin 11 - ABS pin 10 to ground - Fuse box Fuse 5 to ABS pin 18 - Fuse box Fuse 7 to ABS pin 4	OK	Proceed to test 6
		Fault still present	Locate and rectify wiring fault, proceed to test 6
6	Reconnect harness, clear fault code and run engine.	OK	Action complete - quit test
		Fault still present	Contact Triumph service

Circuit Diagram

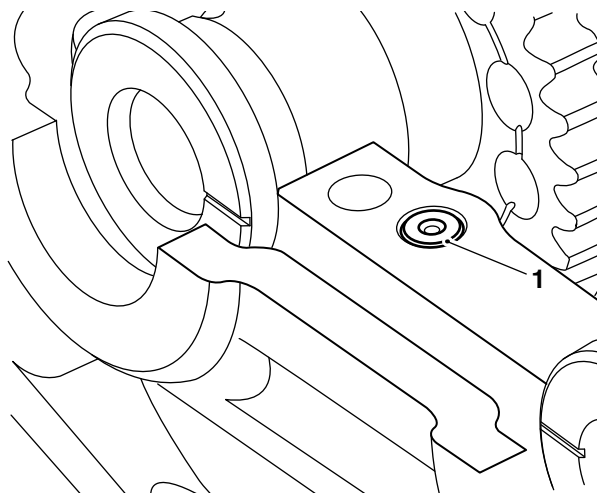


Item: 200.4
Description: Cylinder Head Oil Jet
Model Affected: Speed Triple S, Speed Triple R from VIN 735337, Speed Triple RS

 Caution

Failure to install the camshaft oil jet may result in loss of oil pressure and engine damage.

During the camshaft removal and installation procedures on the above models, please note the position of the oil jet and make sure it is fitted before the installation of the camshaft cap.



1. Oil jet

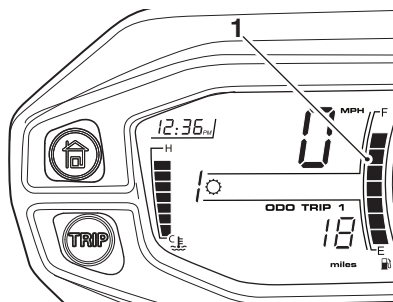
When ordering replacement parts, refer to the EPC.

Please mark your copy of the Service Manual with this information. For electronic service manuals, store this information in a readily accessible place and refer to it when working on the relevant Triumph motorcycle. This information will be included in the next service manual update.

Item:	200.5
Description:	Owners Handbook Correction - Instrument Functionality
Model Affected:	Tiger 800 XR from VIN 855532

We have identified that some of the information in the **Instruments** section in the Owners Handbook for the above model is incorrect. The correct information is as follows:

Fuel Gauge



1. Fuel gauge

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

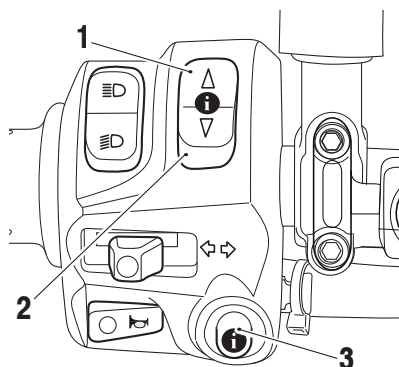
With the ignition switched on, the number of bars shown in the display indicates the level of fuel.

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

When two bars are displayed the low fuel warning light will illuminate, five seconds later the display screen will switch to the Range to Empty display (see Information Menu). This indicates there are approximately 4.0 litres of fuel remaining in the tank and you should refuel at the earliest opportunity.

If the display screen is changed so that the Range to Empty is no longer shown, this information will not be shown again until the ignition is next switched on, whilst the fuel warning light is on. After refuelling, the fuel gauge will be updated only while riding the motorcycle. Depending on riding style, updating could take up to five minutes. The Range to Empty information will be removed from the display and unavailable to review after refuelling.

Trip Computer

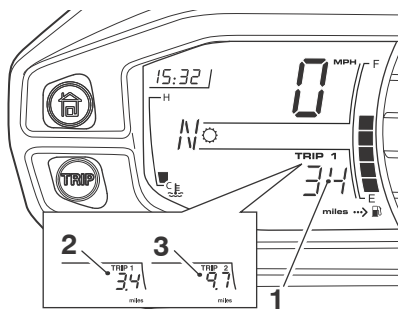


- 1. SCROLL button, up**
- 2. SCROLL button, down**
- 3. SET button**

To access the trip computer information:

- Press and release the SET button on the left hand switch housing until the desired display is shown.
- The display will cycle through in the following order:
 - Trip Meter 1
 - Trip Meter 2
 - Information
 - Setup.

Trip Meters



1. Trip meter display
2. Trip meter 1 display
3. Trip meter 2 display

To access the trip meters:

- Press and release the SET button on the left hand switch housing until the required trip meter is shown.
- Press and release the SCROLL button on the left hand switch housing.
- The display will show the journey distance. This is the total journey distance travelled since the trip meter was last reset to zero.

Trip Meter Reset

To reset either of the trip meters:

- Select and display the trip meter to be zeroed.
- Press and hold the SET button for two seconds. After two seconds, all items within the selected trip meter will reset to zero.

Information Menu

To access the information menu:

- Turn the ignition to the ON position.
- Press and release the SET button on the left hand switch housing until InFo appears in the display screen.

Note:

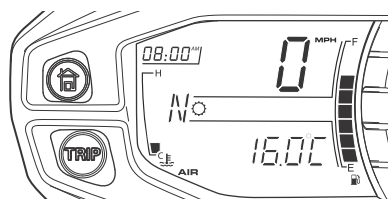
- **InFo will appear in the display screen for 0.5 seconds to indicate that the information menu has been selected. The display screen will then change to display one of the items listed below.**
- Press and release the SCROLL button on the left hand switch housing. The display will scroll through the information menu in the following order when pressing down on the SCROLL button (it will scroll through in the reverse order when pressing up on the SCROLL button):
 - Ambient air temperature
 - Odometer
 - Front tyre pressure (if TPMS is fitted and activated)
 - Rear tyre pressure (if TPMS is fitted and activated)

Each display provides the following information:

Ambient Air Temperature

The current ambient air temperature is displayed in °C or °F.

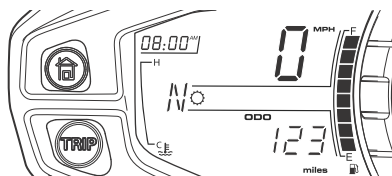
To change the temperature from °C or °F, see Changing Units – UnitS (Imperial, US or Metric).



Ambient Air Temperature

Odometer

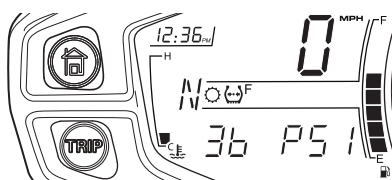
Shows the total distance that the motorcycle has travelled.



Odometer

Front and Rear Tyre Pressures (if TPMS is fitted and activated)

The front and rear tyre pressures are displayed.



Front Tyre Pressure Shown

! Warning

When the motorcycle is in motion, only attempt to switch between the information and trip meter display modes or reset the trip meter under the following conditions:

- At low speed
- In traffic free areas
- On straight and level roads or surfaces
- In good road and weather conditions.

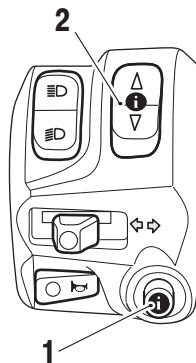
Failure to observe this important warning could lead to loss of motorcycle control and an accident.

To exit the information menu, press and release the SET button until the desired trip meter is displayed.

Setup Menu

To access the setup menu:

- Make sure the motorcycle is stationary and in neutral.
- Press and release the SET button on the left hand switch housing until SEtUP is shown in the display screen.
- Press and release the SCROLL button until the chosen menu item is shown.
- Pressing the SET button allows the displayed menu item to be edited.



1. SET button

2. SCROLL button

The display will scroll through the menus when pressing down on the SCROLL button (it will scroll through in the reverse order when pressing up on the SCROLL button):

- t-SEt - Clock Adjustment
- SIA - Service Interval Announcement
- UnitS - Changing Units (imperial, metric or US).
- REtURn - Returns the instruments to the main display.
- ttc - Triumph Traction Control (TTC) settings
- AbS - Antilock Braking System (ABS) settings

Auto – Self-cancelling Direction Indicators – Ind

Self cancelling direction indicators are not available on this model.

Item: 200.6

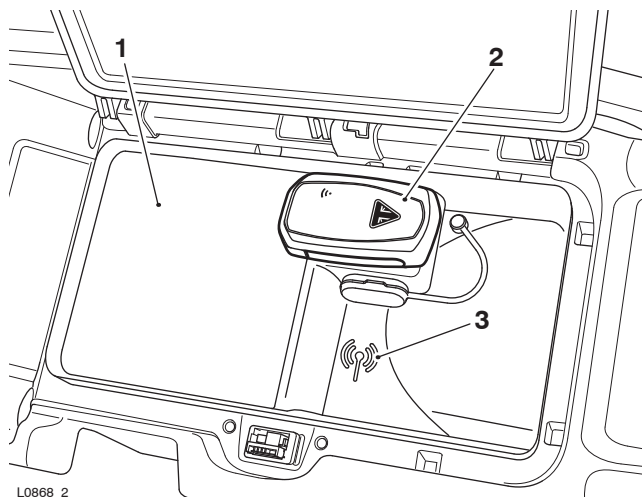
Description: Keyless Ignition

Model Affected: Scrambler 1200 XC and Scrambler 1200 XE

On the above models the information below should be noted when using or setting up a smart key.

When asked to hold the smart key against the LF antenna either during smart key pairing or using a smart key in the standard key operation method, the smart key should be held in the position and orientation shown below.

The key should be placed on the foam pad with the metal face of the key facing upwards and the Triumph badge should be in line with the signal symbol. Failure to position the key in this way may result in a loss of signal or failed key pairing.



1. Foam pad
2. Smart key
3. Signal symbol

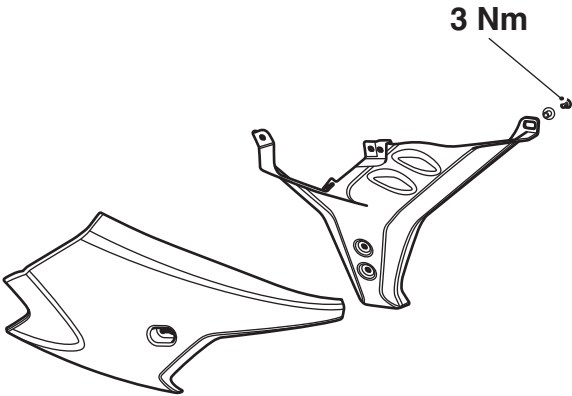
Please mark your copy of the Service Manual with this information. For electronic service manuals, store this information in a readily accessible place and refer to it when working on the relevant Triumph motorcycle. This information will be included in the next service manual update.

Item: 200.7
Description: Torque Change
Model Affected: Tiger Sport

The torque figure has changed. If loosened or removed for any reason the fixing(s) must be torqued as required.

Frame and Bodywork

Application	Torque (Nm)	Notes
Lower Fairing Front Fixings	3 Nm	



Left hand fairing shown, also applicable for right hand fairing
When ordering replacement parts, refer to the EPC.

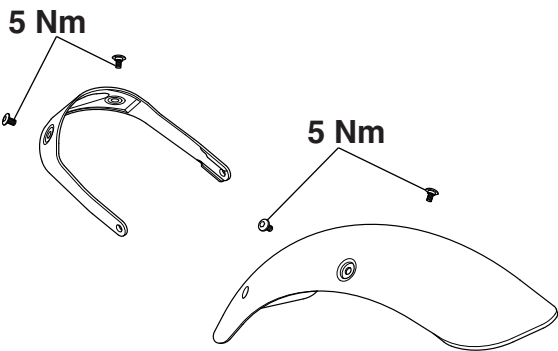
• **Models already in service need not be re-tightened unless the fixings have been loosened or removed.**
Please mark your copy of the Service Manual with this information. For electronic service manuals, store this information in a readily accessible place and refer to it when working on the relevant Triumph motorcycle. This information will be included in the next service manual update.

Item: 200.8
Description: Torque Change
Model Affected: Scrambler 1200 XC, Scrambler 1200 XE

The torque figure has changed. If loosened or removed for any reason the fixing(s) must be torqued as required.

Frame and Bodywork

Application	Torque (Nm)	Notes
Front Mudguard	5 Nm	



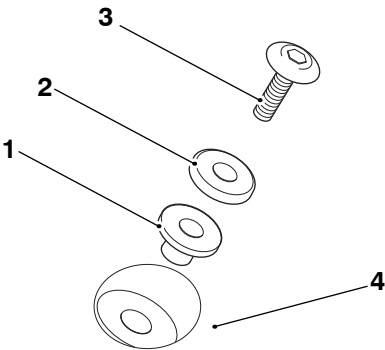
When ordering replacement parts, refer to the EPC.

- **Models already in service need not be re-tightened unless the fixings have been loosened or removed.**

Please mark your copy of the Service Manual with this information. For electronic service manuals, store this information in a readily accessible place and refer to it when working on the relevant Triumph motorcycle. This information will be included in the next service manual update.

Item:	200.9
Description:	Windscreen Fixings
Model Affected:	Tiger 1200 XR, Tiger 1200 XRX, Tiger 1200 XRX-LRH, Tiger 1200 XRT, Tiger 1200 XCX, Tiger 1200 XCA

The windscreen mounting fixings have been changed on the above models from VIN 927970 (all markets except Brazil) and from VIN 928482 (Brazil only).
A spares kit (T2310037) is available for when fitting a new windscreen to models with earlier VIN numbers.
The orientation of the new fixings are shown below and the torque remains at **4 Nm**.



- 1. Flanged sleeve
- 2. Rubber washer
- 3. Screw
- 4. Windscreen

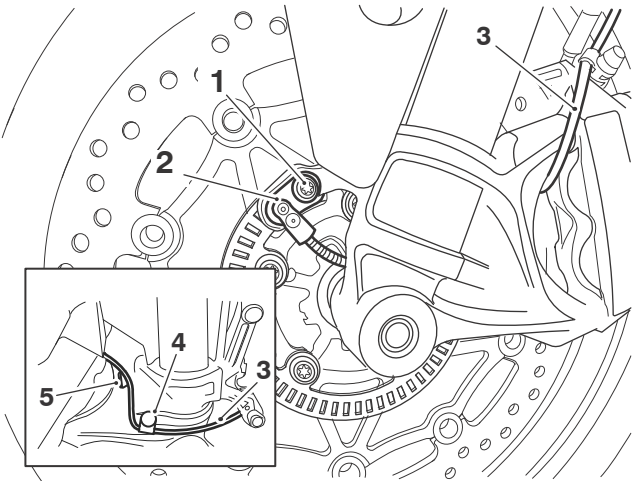
Spares Kit T2310037 - Screen Mount (For models up to VIN 927969 - All markets except Brazil, and up to VIN 928481 - Brazil only)

Part Number	Description
T2310037	Screen Mount Kit Kit Contents: Sleeve, Flanged, Qty 4 Screw, Qty 4 Washer, Rubber, Qty 4

When ordering replacement parts, refer to the EPC.
Please mark your copy of the Service Manual with this information. For electronic service manuals, store this information in a readily accessible place and refer to it when working on the relevant Triumph motorcycle. This information will be included in the next service manual update.

Item: 200.10
Description: Front Wheel Speed Sensor Routing
Model Affected: Speed Triple RS and Thruxton TFC

When removing or installing the front wheel speed sensor on the above models, ensure the sensor cable is routed as illustrated below.
The sensor cable should route behind the left hand fork leg, through the P-clip and round the retaining lug.



- 1. Fixing
- 2. Front wheel speed sensor
- 3. Sensor cable
- 4. P-clip
- 5. Retaining lug

When ordering replacement parts, refer to the EPC.
Please mark your copy of the Service Manual with this information. For electronic service manuals, store this information in a readily accessible place and refer to it when working on the relevant Triumph motorcycle. This information will be included in the next service manual update.

Circulation

Initial and date when read and return to central file holder

Service Manager	Parts Manager	Sales Manager	Workshop Supervisor	Technician 1	Technician 2