



Technical Bulletin 189

03.2018

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Item: 189.1

Description: Replacement TFT Instruments

Model Affected: Speed Triple S from VIN 867685, Speed Triple RS, Street Triple R from VIN 806646, Street Triple R - LRH, Street Triple RS, Tiger 800 XRX from VIN 855532, Tiger 800 XCX from VIN 855532, Tiger 800 XRT from VIN 855532, Tiger 800 XCA from VIN 855532, Tiger 800 XRX - LRH from VIN 855532, Tiger 1200 XRX, Tiger 1200 XCX, Tiger 1200 XRT, Tiger 1200 XCA, Tiger 1200 XRX - LRH

Dealers are advised that replacement TFT instruments are supplied in a locked condition. In this condition, the instruments will prevent the engine from being started. Replacement TFT instruments must be unlocked by downloading the latest calibration using the Triumph diagnostic tool.

TFT Instruments Unlock Procedure

Warning

Always use Automatic Model Selection when downloading calibrations.

Manual model selection must only be used when attempting to restart an interrupted or failed download, or if an incorrect model is detected by Automatic Model Selection.

Always ensure that the correct model is detected or selected before selecting a calibration for download and never attempt to download calibrations listed for an incorrect model.

Downloading calibrations for an incorrect model will cause a dangerous riding condition which may lead to loss of motorcycle control and an accident.

Note:

- The current password for all downloads can be found at www.triumphonline.net.
- It is normal for DTCs to be stored after a download has completed. This is due to the download process interrupting CAN communications between the ECMS.
- After a download has completed, you will be prompted to check and erase any stored DTCs.

1. Install the replacement TFT instruments as described in the Service Manual.
2. Ensure you have the latest version of the Triumph diagnostic tool installed on your PC.
3. Connect the Triumph diagnostic tool as described in the Service Manual and turn the ignition ON.
4. Download the correct instrument calibration for your model and region using automatic model detection.

Note:

- During the download, the instrument display will turn off and the red immobiliser/alarm LED will flash.
 - Multiple files are transferred during the download. The progress bar displayed on the diagnostic tool may repeatedly rise from 0% to 100% as each file is downloaded.
 - Do not assume the download has completed when the instrument display turns back on. Always wait for the Verifying Download screen to appear to confirm the download has successfully completed.
5. Click Finish when the download has completed.
 6. Check all ECMS for stored DTCs and erase as necessary.
 7. Disconnect the Triumph diagnostic tool.

Item: 189.2

Description: Owners Handbook Correction - Maximum Payload Figures

Model Affected: Tiger 800 XR from VIN 855532, Tiger 800 XRX from VIN 855532, Tiger 800 XCX from VIN 855532, Tiger 800 XRT from VIN 855532, Tiger 800 XCA from VIN 855532, Tiger 800 XRX-LRH from VIN 855532

We have identified that the maximum payload figure listed in the Owners Handbook for the above models is incorrect. The correct maximum payload figures are as follows:

Model	Maximum Payload
Tiger 800 XR	222 kg (489 lbs)
Tiger 800 XRX	223 kg (492 lbs)
Tiger 800 XCX	228 kg (503 lbs)
Tiger 800 XRT	225 kg (496 lbs)
Tiger 800 XCA	231 kg (509 lbs)
Tiger 800 XRX-LRH	222 kg (489 lbs)

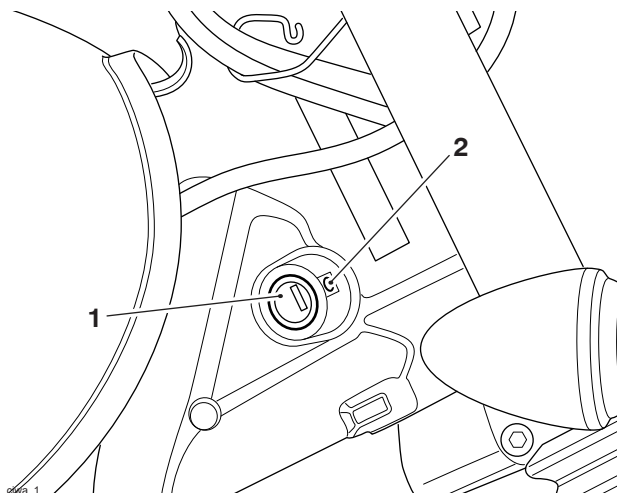
Item: 189.3

Description: Steering Lock Grub Screw

Model Affected: Bonneville Bobber, Bonneville Bobber Black, Bonneville Speedmaster from VIN 856224

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

Tighten the grub screw to **0.7 Nm**.



1. Steering lock

2. Grub screw

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 often. This information will be included in the next service manual update.

Item: 189.4

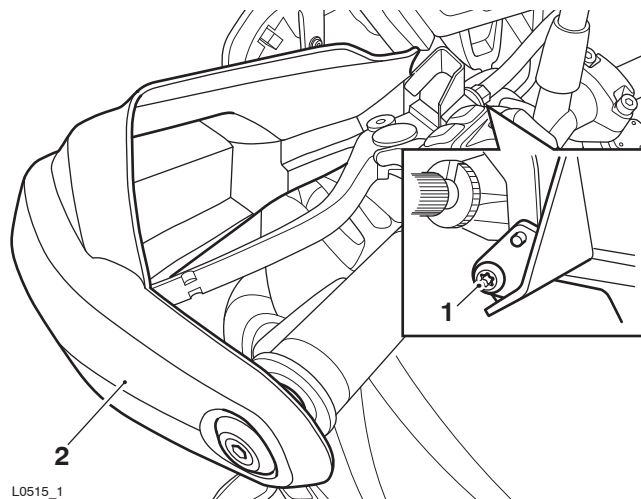
Description: Handguard to Bracket Fixing

Model Affected: Tiger 800 XRX, Tiger 800 XCX, Tiger 800 XRT, Tiger 800 XRX-LRH and Tiger 800 XCA

New handguard to bracket fixings have been introduced to the above models from VIN 882027 (all markets except Brazil and India) and VIN 882725 (Brazil and India markets only) with a new torque figure. The new fixings are retrofittable.

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

Tighten the fixings to **6 Nm**.



1. Handguard to bracket fixing

2. Handguard

For the removal and installation of the handguards, refer to the Service Manual.

When ordering replacement parts, refer to the EPC.

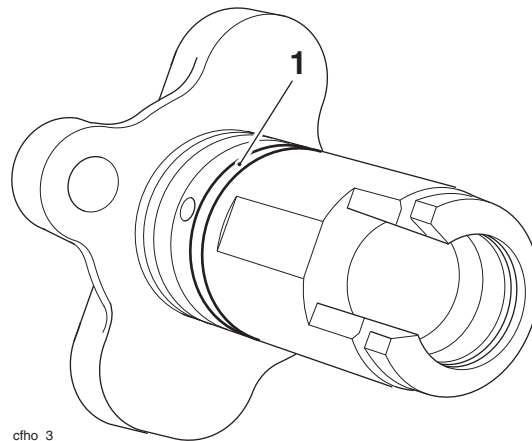
Please mark your copy of the Service Manual with this information. For electronic service manuals, store this information in a readily accessible place and refer to it often. This information will be included in the next service manual update.

Item: 189.5

Description: Hydraulic Camshaft Drive Chain Tensioner Installation

Model Affected: Speed Triple S from VIN 867685, Speed Triple RS

When installing the hydraulic camshaft drive chain tensioner on the above models, ensure the inner O-ring has been lubricated with clean engine oil. Ensure the hydraulic camshaft drive chain tensioner is pushed fully home before tightening the fixings.



1. Inner O-ring

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 often. This information will be included in the next service manual update.

Item: 189.6
Description: Fuel Pump Wires
Model Affected: Tiger Sport from VIN 750470

Some of the above motorcycles have experienced incorrect fuel level readings caused by the fuel pump wires fouling the fuel level sender. For motorcycles displaying this problem, this can be rectified by the addition of a cable tie, fitted as described below.

If the fuel pump is removed on these motorcycles, the cable tie must be fitted when re-installing.

Cable Tie Installation

Warning

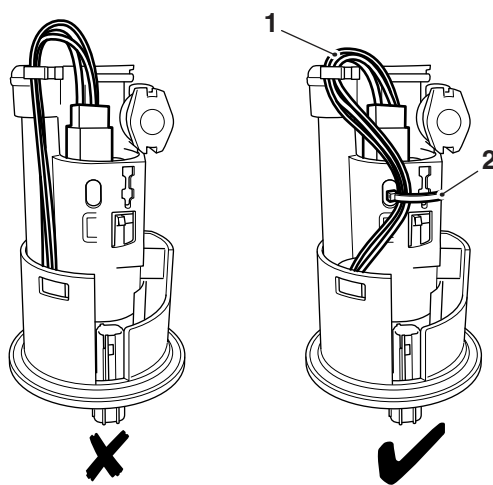
Observe the warning advice given in the General Information section on the safe handling of fuel and fuel containers.

A fire, causing personal injury and damage to property could result from spilled fuel or fuel not handled or stored correctly.

Warning

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

1. Remove the fuel pump and filter assembly as described in the Service Manual.
2. Ensure the fuel pump wires are positioned as pictured.



1. **Correct wire positions**
2. **Cable tie**

3. Install the cable tie in the position shown.
4. Install a new sealing ring to the fuel pump assembly as described in the Service Manual.
5. Refit the fuel pump and filter assembly as described in the Service Manual.

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 often. This information will be included in the next service manual update.

Item: 189.7

Description: Fuel Level Sender Wires

Model Affected: Tiger XRX, Tiger XRX-LRH, Tiger XR, Tiger XRT, Tiger XCX, Tiger XCX-LRH, Tiger XC, Tiger XCA, Tiger 800 XR, Tiger 800 XRX, Tiger 800 XCX, Tiger 800 XRT, Tiger 800 XCA, Tiger 800 XRX LRH

Some of the above motorcycles have experienced incorrect fuel level readings caused by fuel level sender wires interfering with the fuel level sender arm. For motorcycles displaying this problem, this can be rectified by the addition of a cable tie, fitted as described below.

If the fuel pump is removed on these motorcycles, the cable tie must be fitted when re-installing.

Installation

Warning

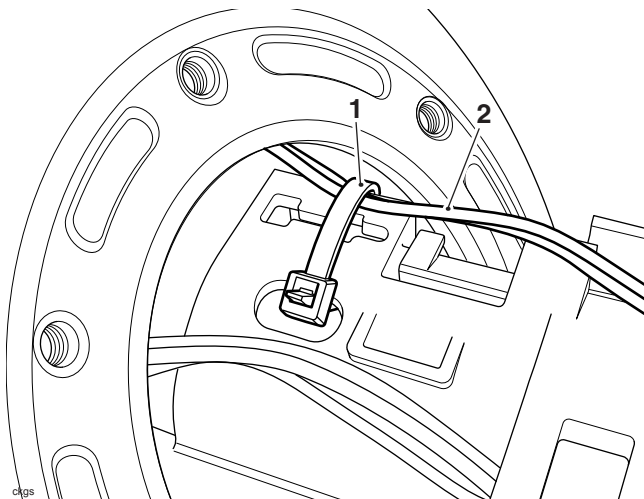
Observe the warning advice given in the General Information section on the safe handling of fuel and fuel containers.

A fire, causing personal injury and damage to property could result from spilled fuel or fuel not handled or stored correctly.

Warning

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

1. Remove the fuel pump and filter assembly as described in the Service Manual.
2. Install a new sealing ring to the fuel pump assembly as described in the Service Manual.
3. Ensure the fuel level sender wires are positioned as pictured.



1. **Cable tie**
2. **Fuel level sender wires**
4. Install the cable tie in the position shown.



Caution

Routing the fuel level sender wiring over the fuel level sender arm will prevent the sender arm from moving through its full range of movement, causing incorrect fuel gauge readings.

5. Refit the fuel pump and filter assembly as described in the Service Manual, ensuring that the fuel level sender wiring is not routed over the fuel level sender arm.

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 often. This information will be included in the next service manual update.

Item: 189.8

Description: Front Master Cylinder Reservoir Cap Screws

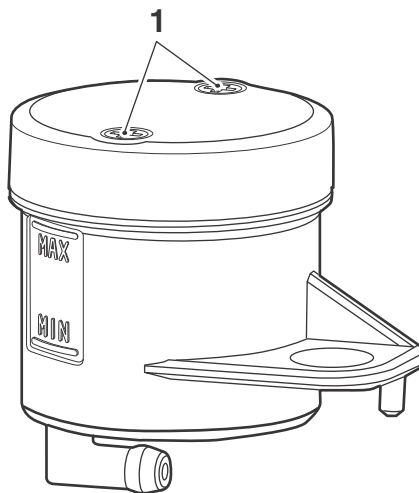
Model Affected: Thruxton 1200R, Thruxton 1200R (Dual Seat), Street Triple R, Street Triple R LRH, Street Triple RS, Speed Triple S, Speed Triple R, Speed Triple RS

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

Warning

If the master cylinder reservoir cap screws are over tightened this can result in a brake fluid leak. A dangerous riding condition leading to loss of motorcycle control and an accident could result if this warning is ignored.

Tighten the fixings to **0.7 Nm**.



1. Front master cylinder reservoir cap screws

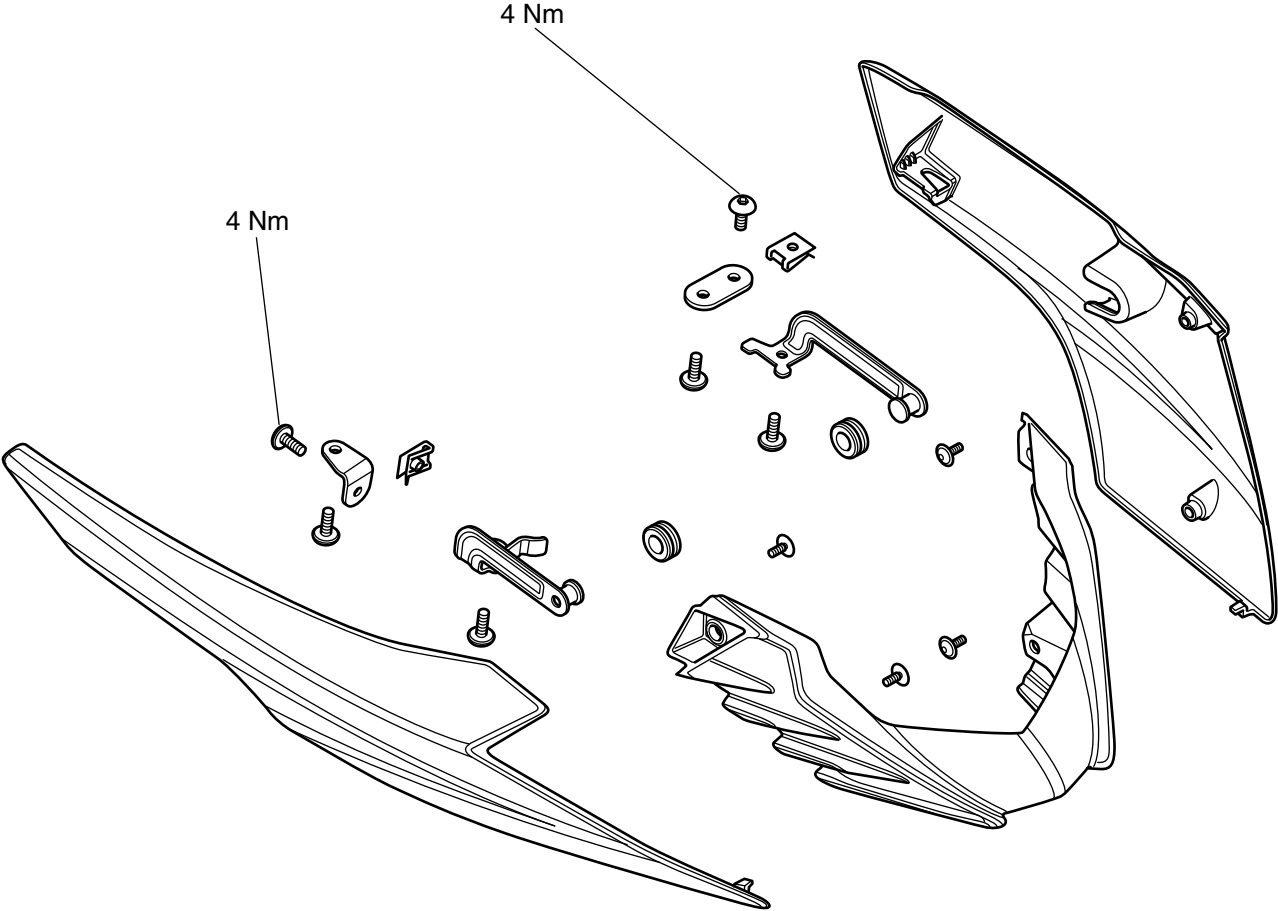
When ordering replacement parts, refer to the EPC.

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Item: 189.9
Description: Belly Pan to Rear Mounting Bracket Fixings
Model Affected: Street Triple RS

The belly pan to rear mounting bracket fixings have been replaced with encapsulated fixings on the above model from VIN 887970 (all markets except Brazil and India) and VIN 888287 (Brazil and Indian markets only). The new fixings are retrofittable. If loosened or removed for any reason the encapsulated fixing(s) must be replaced.

Application	Torque (Nm)	Notes
Belly pan to rear mounting brackets	4 Nm	Fit new fixing(s) if loosened or removed



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 often. This information will be included in the next service manual update.

Item:	189.10
Description:	Throttle Position Sensor
Model Affected:	Bonneville, Bonneville SE, Thruxton up to VIN 740404, Thruxton SE, Bonneville T100 up to VIN 759203, Bonneville T100 SE, Scrambler, America, Speedmaster up to VIN 739142

The information for the throttle position sensor installation in the Service Manual for the above models is incorrect. When installing the throttle position sensor, please use the following steps:

Throttle Position Sensor - Installation

1. Lubricate the O-ring with clean engine oil. Fit the replacement throttle position sensor ensuring the O-ring is positioned correctly between the sensor and throttle body.
2. Rotate the throttle position sensor clockwise until the threaded hole in the throttle body aligns with the slot in the sensor.
3. Engage the screw and part tighten such that the sensor can still be rotated.
4. Reconnect the wiring connector to the throttle position sensor.
5. Reconnect the battery, positive (red) lead first.
6. Attach the Triumph Diagnostic Tool to the dedicated plug, refer to the Triumph Diagnostic Tool User Guide for additional information.
7. On the diagnostic tool navigate to ENGINE DIAGNOSTICS, and select the 'ADJUST' option (see the Adjust Tune section in the relevant Service Manual).
8. Warm the engine up to normal operating temperature and adjust the idle speed (see the Idle Speed Adjustment section in the relevant Service Manual).
9. Balance the throttle bodies (see the Throttle Body Balance section in the relevant Service Manual).
10. With the idle speed correctly set, and the throttle bodies balanced, switch off the engine.
11. Turn the ignition to the 'ON' position.
12. At the next screen, select Throttle Position Sensor Adjust then press the 'ADJUST' button.
13. The tool will display the Voltage reading coming from the throttle position sensor.
14. Gently rotate the new throttle position sensor until the voltage reading on the tool shows 0.6 Volts +/- 0.02 Volts.

Note:

- **This is a setting voltage only. Because of the adaptive nature of the engine management system, and the possible manual adjustment of the idle speed, the in-service Voltage may vary from this setting figure.**
15. Tighten the sensor retaining screw to 3.5 Nm and recheck the voltage reading shown on the tool. Repeat the adjustment if the reading is outside the specified range.
 16. Press the OK button and return the diagnostic tool to the TUNE menu.
 17. Disconnect the diagnostic tool.
 18. Check that the throttle opens and closes without obstruction/sticking and has a smooth action throughout the full range of its movement. Rectify as necessary.

Warning

Operation of the motorcycle with an incorrectly adjusted throttle position sensor, or a throttle position sensor that causes the throttle to stick could result in loss of throttle control. Loss of throttle control could result in loss of control of the motorcycle and an accident.

Warning

Operation of the motorcycle with an incorrectly adjusted, incorrectly routed or damaged throttle cable could interfere with the operation of the brakes, clutch or the throttle itself. Any of these conditions could result in loss of control of the motorcycle and an accident.

19. Check and clear any stored faults using the same tool.
20. Recheck, and if necessary, adjust the idle speed (see the Idle Speed Adjustment section in the relevant Service Manual).
21. Refit the seat (see the Seat - Installation section in the relevant Service Manual)

When ordering replacement parts, refer to the EPC.

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Circulation

Initial and date when read and return to central file holder

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