



Technical Bulletin 216

04.2021

Contents

Item	Subject	Model Affected
216.1	Electronic Systems Commissioning and Motorcycle Unlocking	Speed Triple 1200 RS

Item: 216.1
Description: Electronic Systems Commissioning and Motorcycle Unlocking
Model Affected: Speed Triple 1200 RS

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.

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.

Caution

Do not interrupt or cancel calibration downloads before they have completed.
If a calibration download is cancelled or interrupted before it has completed, the Electronic Control Module (ECM) will not operate in the normal way. This is because the operating system has been erased from ECM memory and has not yet been fully replaced. Under these circumstances, it will not be possible to use Automatic Model Detection when restarting the calibration download.
Turn the motorcycle ignition off for at least 60 seconds to allow the electronic systems to power down, then restart the calibration download using Manual Model Selection.
If a calibration download fails to restart, it may be necessary to follow a specific recovery process.

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 all ECMs for stored DTCs and erase them as necessary. This must be completed after all downloads are finished.**

Description

The Engine ECM, Chassis ECM and Instruments are delivered in a locked condition on the above motorcycle(s). In this condition, the engine will not start. When performing a Pre-Delivery Inspection on the above models, the motorcycle's electronic systems must be commissioned and the motorcycle unlocked before the engine can be started.

Dealers are requested to commission the electronic systems and unlock the motorcycle by performing the following operations:

1. Download the latest Keyless ECM calibration.
2. Download the latest Chassis ECM calibration.
3. Download the latest TFT Instrument calibration.
4. Download the latest Engine ECM calibration.
5. Unlock the Engine ECM.
6. Adapt the crankshaft position (if required).

Preparation

Download and install the latest version of the Triumph Diagnostic Tool to your computer as described in the Triumph Diagnostic Tool Installation Guide. Triumph Diagnostic Tool version 2021-06 or later is required to complete this procedure.

Note:

- **It will take approximately 1.75 hours to complete the system downloads necessary to commission the above motorcycle.**
 - **Please take the following precautions to avoid accidental disruption of the calibration downloads performed during this process.**
1. If using a laptop computer to run the diagnostic software, make sure the laptop battery is fully charged. Connect a charger to avoid draining the laptop battery.
 2. Disable any sleep and screen saver settings. The PC/laptop must remain turned on and awake for the duration of the process.
 3. Make sure all other PC/laptop applications (including Internet browsers) are closed down.
 4. Make sure the motorcycle battery is fully charged (battery voltage of at least 12.8 Volts). A Triumph recommended battery charger specifically designed for lithium batteries may be used to maintain the battery charge during this process.
 5. During calibration download, DO NOT do the following unless instructed to do so by the diagnostic tool:
 - Turn the ignition OFF.
 - Switch the engine stop switch to a different position.
 - Disconnect the diagnostic interface.

Initial Steps

1. Unpack the motorcycle as described in the Motorcycle Unpacking Guide.
2. Assemble the motorcycle as described in the Motorcycle Assembly Guide.
3. Remove the rider's seat.
4. Ensure that the motorcycle battery is fully charged and installed as described in the Service Manual. Observe the information provided in the Service Manual regarding LiFePO₄ lithium-ion batteries.

Caution

Only charge the battery using a Triumph recommended battery charger specifically designed for lithium batteries.

Always refer to the instructions supplied with the battery charger.

Do not use a lead-acid battery charger, as this may seriously damage or destroy the battery.

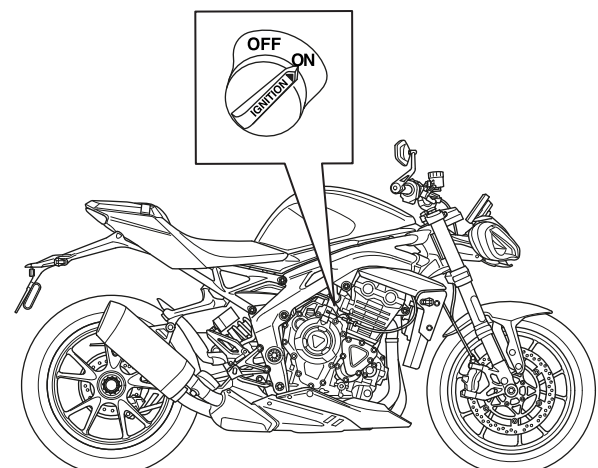
Do not use a battery charger that has an automatic 'de-sulphation' or 'conditioning' mode as this will seriously damage or destroy the battery.

5. Connect a Triumph recommended battery charger (specifically designed for lithium batteries) to maintain battery charge during this process.

Note:

- **The motorcycle is supplied with one smart key and one passive key.**
 - **The smart key should be set to active mode and kept within 1 metre (3 feet) of the LF antenna for the duration of this procedure.**
6. Check that the smart key is in active mode. Press the smart key button and make sure the LED flashes green. If the LED flashes red, press and hold the button until the LED changes to green.
 7. Position the smart key within 1 metre (3 feet) of the motorcycle.

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8. **US markets Only:** Turn the master ignition switch to the ON position.



Master Ignition Switch

9. Connect the Triumph Diagnostic Tool to the motorcycle as described in the Service Manual and turn the ignition ON.

Calibration Downloads

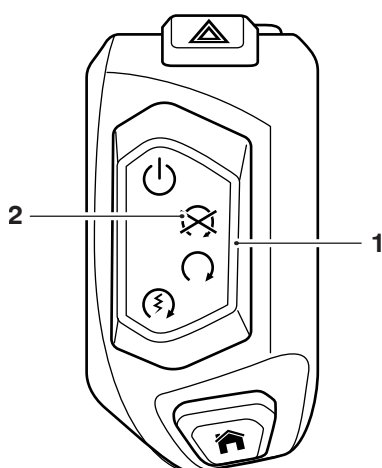
Note:

- Use the Automatic Model Detection option when performing the calibration downloads detailed below.
 - Make sure that the correct model is detected and that the correct calibration for your region is selected for each download.
 - Follow all onscreen instructions during each download.
 - Multiple files are transferred during each calibration download. The progress bar displayed on the diagnostic tool may repeatedly rise from 0% to 100% as each file is downloaded.
 - Always wait for the Verifying Download screen to appear to confirm that each download has successfully completed.
 - If a calibration download is accidentally disrupted or does not complete for any reason, turn the ignition off for at least 60 seconds then restart the download using Manual Model Selection.
1. Download the latest Keyless ECM calibration.
 2. Download the latest Chassis ECM calibration.

Note:

- The Chassis ECM calibration download is required to unlock the Chassis ECM. This download must be performed even if the diagnostic tool reports that the Chassis ECM software is up to date.

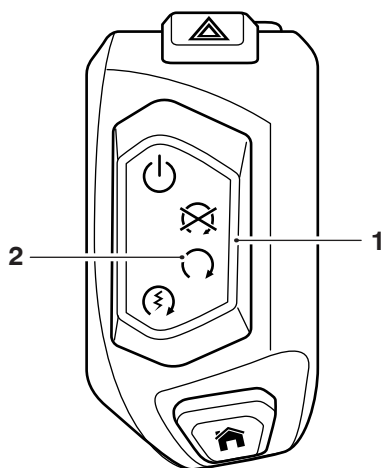
-
3. Make sure the engine stop switch is in the STOP position.



1. Engine stop switch

2. STOP position

4. Download the latest Instrument calibration.
5. Switch the engine stop switch to the RUN position.



ckdp_1

1. Engine stop switch

2. RUN position

6. Download the latest Engine ECM calibration.

Unlock the Engine ECM

1. Unlock the Engine ECM as described in the Triumph Diagnostic Tool User Guide.

Note:

- There is a small delay while the motorcycle's ECMs are checked for up-to-date calibrations.
- The software will report if any ECMs are out of date and will prevent unlocking until the correct calibrations are installed.
- The unlock code can be found at www.triumphonline.net.

Adapt the Crankshaft Position (if required) - Euro 5 Markets Only

Motorcycles are typically delivered from the factory with the crankshaft position adapted. However, a small number of models may need to have the crankshaft position adapted at PDI.

Check the Engine ECM for stored DTCs. If the crankshaft position is not adapted, DTC P0315 will be stored and the Malfunction Indicator Light (MIL) will be illuminated. DTC P0315 cannot be erased by using the Erase DTCs function. To clear the DTC the crankshaft position must be adapted as described in the adaption process below.

If DTC P0315 is not present at PDI, it is not necessary to adapt the crankshaft position.

Crankshaft Position Adaption Process

Warning

Exhaust fumes are poisonous, always operate a motorcycle in the open-air or in an area with adequate ventilation.

Do not operate a motorcycle in an enclosed area without adequate ventilation.

Operating a motorcycle in an enclosed area without adequate ventilation can cause loss of consciousness and death within a short period of time.

1. Turn the motorcycle ignition OFF for at least 60 seconds.
2. Turn the motorcycle ignition ON. Make sure the engine Stop switch is in the RUN position.
3. Make sure the transmission is in neutral.
4. Navigate to ENGINE DIAGNOSTICS - Function Tests.
5. Select Crankshaft Position Adaption and click **Start**.
6. Follow the on screen instructions.
7. When the adaption has completed, click **Finish** and turn the motorcycle ignition switch OFF. Wait for at least 60 seconds to allow the motorcycle's electronic system to fully power down.

Note:

- **DTC P0315 will not clear until the motorcycle's electronic system has fully powered down.**
8. After 60 seconds, turn the motorcycle ignition switch ON. Make sure that DTC P0315 and the MIL have cleared.

Refer to the Service Manual for more details on the crankshaft position adaption process.

Final Steps

- Check and erase all stored Engine ECM, ABS, Instrument, Immobiliser ECM, and Chassis ECM DTCs.
- Disconnect the Triumph Diagnostic Tool.
- Refit the rider's seat.
- Check that the motorcycle can be turned ON and started using each key.
- Set the instruments to display the correct language and units for your region, as described in the Owner's Handbook.

Circulation

Initial and date when read and return to central file holder

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