



Technical Bulletin TB234 12.2023

Contents

Item	Subject	Model Affected
TB234. 1	Electronic Systems Commissioning and Motorcycle Unlocking	Speed 400, Scrambler 400 X

Item:	TB234.1
Description:	Electronic Systems Commissioning and Motorcycle Unlocking
Model Affected:	Speed 400, Scrambler 400 X

WARNING

Make sure the motorcycle is stabilised and adequately supported.
Do not support the motorcycle on any ancillary component, the exhaust system or any other non structural parts of the motorcycle frame.
A correctly supported motorcycle will help prevent it from falling.
An unstable motorcycle may fall resulting in motorcycle damage, serious injury or death.

Description

The Engine ECM is 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 Immobiliser calibration.**
2. **Download the latest Instrument calibration.**
3. **Download the latest Engine ECM calibration.**
4. **Unlock the Engine ECM.**
5. **Set the first service interval on the instruments.**
6. **Erase DTCs from all motorcycle ECMs.**

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 2023-08 or later is required to complete this procedure.

Note:

- **It can take up to 15 minutes 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). Connect an approved battery charger (suitable for use with maintenance free batteries) 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. Ensure that the motorcycle battery is fully charged and installed as described in the service manual.

4. Remove the rider's seat.
5. Connect the Triumph Diagnostic Tool to the motorcycle and turn the ignition switch ON.

Calibration Downloads

WARNING

Always ensure that the correct motorcycle Model is selected before starting a calibration download. Downloading calibrations for an incorrect Model may cause motorcycle electronic systems to function incorrectly. This can cause an unsafe riding condition which could lead to an accident resulting in injury or death.

NOTICE

Always ensure that the correct motorcycle Market Variant is selected before starting a calibration download. Downloading calibrations for an incorrect Market Variant may cause motorcycle electrical or electronic systems to function incorrectly for your region.

NOTICE

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. Turn the motorcycle ignition off for at least 60 seconds to allow the electronic systems to power down, then restart the calibration download process in the normal way.

1. Download the latest Immobiliser calibration.
2. Download the latest Instrument calibration.
3. Download the latest Engine ECM calibration.

Note:

- **Always ensure that the correct motorcycle Market Variant is selected before downloading a calibration.**

Unlock the Engine ECM

1. Navigate to **Diagnostics** -> **Engine ECM** -> **Unlock ECM**.
2. Upon clicking the Unlock ECM tab, the tool will scan the motorcycle to identify the Model and Market variant.
3. Check that the correct Model and Market Variant is detected before clicking **Continue**.
4. Upon clicking Continue, the tool will display the calibration status for each ECM. Unlocking will only be permitted when all ECMs are up to date.
5. When all ECMs are up to date, click the **Unlock** button to unlock the Engine ECM.

Note:

- **An unlock code is not required for the above motorcycles.**
 - **The Engine ECM will be automatically unlocked when all calibrations are up to date and the Unlock button is clicked.**
6. If unlocking is not permitted due to out of date calibrations, return to the download menu and download the required calibration updates before re-attempting to unlock.

Set the First Service Interval on the Instruments

1. Navigate to **Diagnostics** -> **Instruments** -> **Service**.
2. Set the first service interval to:
 - 600 miles/1,000 km

Erase DTCs from All ECMs

1. Check the following motorcycle ECMs for stored DTCs. Erase any stored DTCs as necessary:
 - Engine ECM
 - ABS
 - Instruments
 - Immobiliser/Keyless ECM

Final Steps

- Disconnect the Triumph Diagnostic Tool.
- Refit the rider's seat.
- Check that the motorcycle can be powered ON and started using each key.