

Technical News

Issue 142

Strictly Confidential

March 2013

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Item 1.

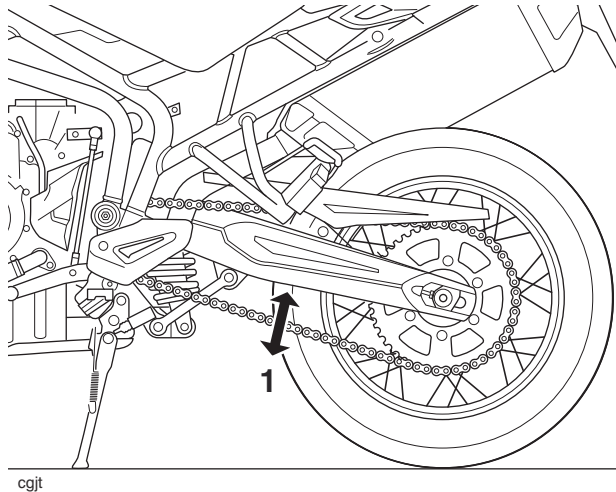
Description: Drive Chain Vertical Movement

Models affected: Tiger 800

The drive chain vertical movement setting has changed to 20 - 30 mm for the above model. This change affects all bikes from the start of production.

The Tiger 800XC setting has not changed and remains as described in the service manual and owner handbook.

For the procedure to check and adjust the drive chain vertical movement setting refer to the service manual or owner handbook.



1. Maximum movement position

Please mark your copy of the service manual with this information.

Item 2.

Description: Torque Reduction - Detent Wheel and Selector Drum Bearing Keeper Plate Fixings

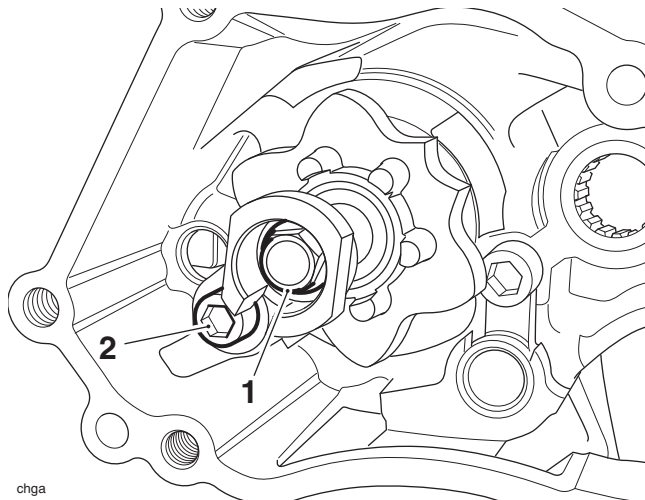
Models affected: Tiger Explorer, Tiger Explorer XC, Trophy and Trophy SE

The torque figures for the detent wheel and selector drum bearing keeper plate fixings have changed on the above models. The new torque figures are as follows:

- Detent wheel fixing - **11 Nm**
- Selector drum bearing keeper plate fixing - **9 Nm**

Note:

- **Models already in service need not be re-tightened unless the fixings have been loosened or removed.**
- **The detent wheel and selector drum bearing keeper plate fixings must be replaced if they have been loosened or removed.**



1. Detent wheel fixing

2. Selector drum bearing keeper plate fixing

Please mark your copy of the service manual with this information.

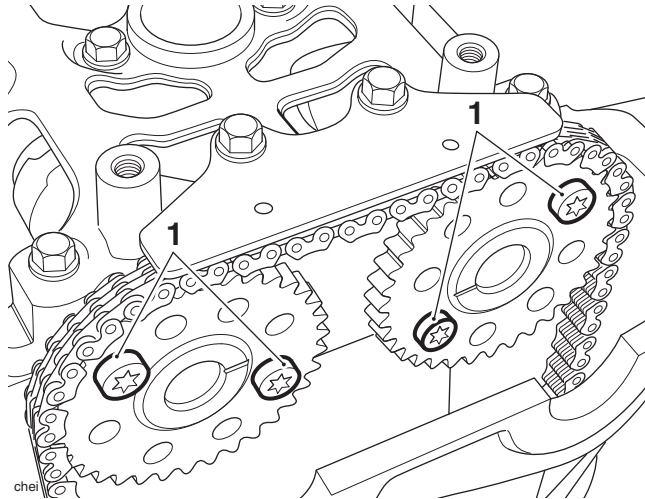
Item 3.

Description: Camshaft Sprocket Fixings

Models affected: Street Triple From VIN 560477, Street Triple R from VIN 560477, Daytona 675 from VIN 564948 and Daytona 675R from VIN 564948

The removal and installation of the fixings for the camshaft sprockets is as described in the service manual noting the following:

If the fixings for the camshaft sprockets have been loosened or removed they must be discarded. New fixings must be installed with a drop of ThreeBond 1375B locking compound (or equivalent) to the threads.



1. Fixings

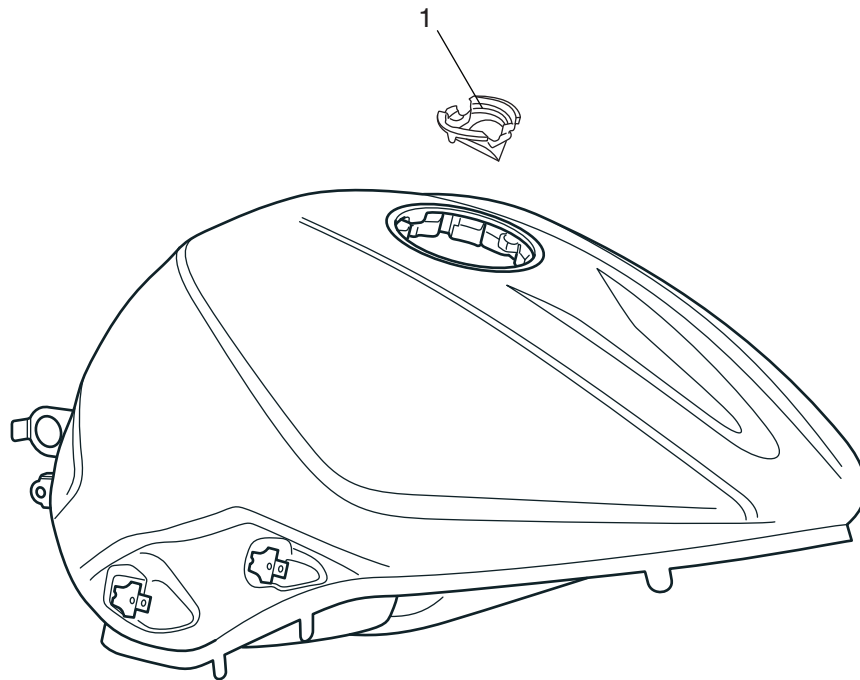
Please mark your copy of the service manual with this information.

Item 4.

Description: Fuel Filler Baffle

Models affected: Daytona 675 from VIN 564948, Daytona 675R from VIN 564948, Street Triple from VIN 560477 and Street Triple R from VIN 560477

The fuel filler baffle is no longer fitted to the fuel tank on the above models from VIN 579045.



1. Fuel filler baffle

Please mark your copy of the service manual with this information.

Item 5.

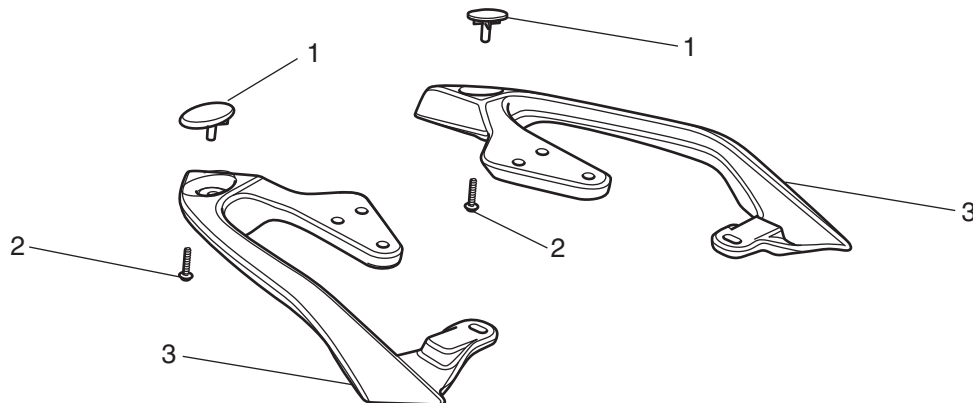
Description: Grab Handle Finisher Cap

Models affected: Tiger Sport

The torque figure for the fixings securing the finisher cap to the grab handles has changed to **1 Nm** on the above models.

Note:

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



1. Finishers cap

2. Fixings

3. Grab handles

Please mark your copy of the service manual with this information.

Item 6.

Description: Maximum Payload

Models affected: Tiger Explorer, Tiger Explorer XC

The maximum payload for the above models has changed to **212 kg**.

Please mark your copy of the service manual with this information.

Item 7.

Description: Owner's Handbook Correction - Heated Seats

Models affected: Trophy and Trophy SE

The Trophy and Trophy SE owner's handbook incorrectly states that the Trophy SE is fitted with heated seats as standard. Heated seats are available as a Triumph Genuine Accessory for this model.

Please mark your copy of the service manual with this information.

Item 8.

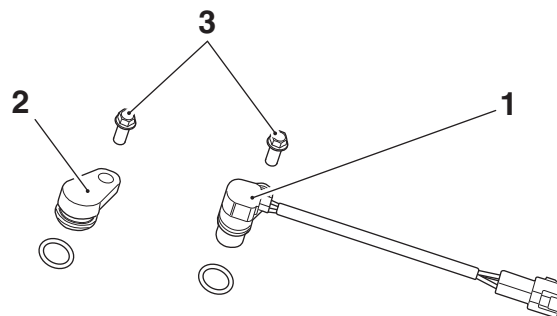
Description: Road Speed Sensor/Blanking Plug Fixing

Models affected: Tiger 800 and Tiger 800XC

A new road speed sensor/blanking plug fixing (part number T3205064) has been introduced on the above models from VIN 574316 and is retrofittable. The torque figure has also changed to **4 Nm** to coincide with the introduction of the new fixing.

Note:

- **Models already in service need not be re-tightened unless the fixings have been loosened or removed.**
- **The road speed sensor/blanking plug fixing must be replaced if it has been loosened or removed.**



1. Road speed sensor (non ABS models only)

2. Blanking plug (ABS models only)

3. Fixing

Please mark your copy of the service manual with this information.

Item 9.

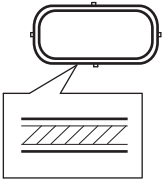
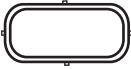
Description: New Exhaust Header Seal and Change to Exhaust Header Fixing Torque and Tightening Sequence

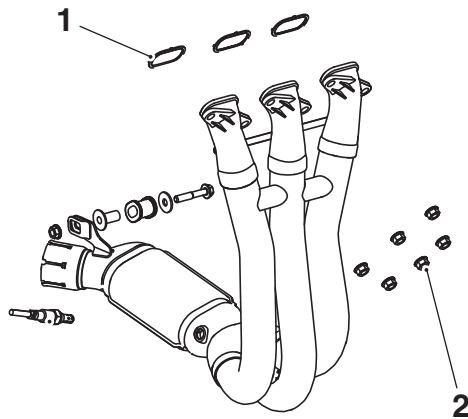
Models affected: Tiger Explorer, Tiger Explorer XC, Trophy and Trophy SE From VIN 584513

A new exhaust header seal has been introduced on the above models from VIN 584513. The torque figure for the exhaust header pipe fixings has also changed to **23 Nm** to coincide with the introduction of the new header seal.

Note:

- **Models already in service need not be re-tightened unless the fixings have been loosened or removed.**
- **The new torque figure of 23 Nm must only be applied when replacing existing header seals with the new condition header seals.**
- **When replacing existing header seals with old condition header seals, the previous torque figure of 19 Nm must be applied.**

Old Condition Seal: Part Number 2201140 Header Fixing Tightened to 19 Nm		New Condition Seal: Part Number 2201157 Header Fixing Tightened to 23 Nm	
Identification: Copper cladding on front, back and internal edge only. No copper cladding on external edge.		Identification: Completely copper clad.	

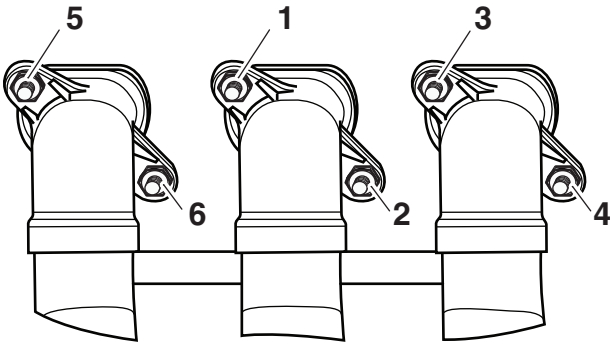


- 1. Seal
- 2. Fixing

In addition there has also been a change to the exhaust header pipe fixing tightening sequence. When tightening the header pipe fixings follow the tightening sequence below.

Note:

- This tightening sequence can be applied when fitting either header seal type.



The new exhaust header seal is retrofittable to all earlier Tiger Explorer, Tiger Explorer XC, Trophy and Trophy SE models. When ordering parts always refer to the EPC.

Please mark your copy of the service manual with this information.

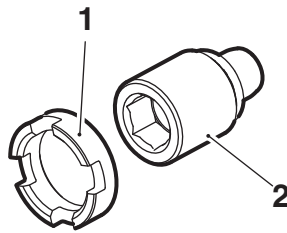
Item 10.

Description: Swingarm and Bevel Box Locking Rings

Models affected: Tiger Explorer, Tiger Explorer XC, Trophy and Trophy SE

On all the above models from the start of production, it is no longer necessary to lubricate the threads of the locking rings for the rear bevel box and swingarm pivot pins with a proprietary high temperature copper based grease as described in the service manual.

It is still necessary to apply the proprietary high temperature copper based grease to the threads of the pivot pins if they have been removed.



1. Locking ring

2. Right-hand pivot pin, swingarm

Please mark your copy of the service manual with this information.

Item 11.

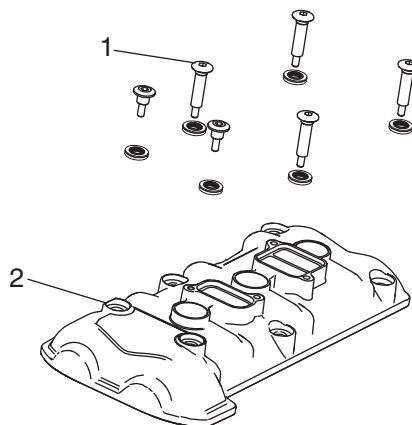
Description: Camshaft Cover Fixings

Models affected: Tiger Explorer, Tiger Explorer XC, Trophy and Trophy SE

The torque figure for the camshaft cover fixings has changed to **12 Nm** on the above models.

Note:

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



1. Fixings

2. Camshaft cover

Please mark your copy of the service manual with this information.

Item 12.

Description: Exhaust Butterfly Adjustment

Models affected: Daytona 675 from VIN 564948 and Daytona 675R from VIN 564948

The method to adjust the exhaust butterfly valve on the above models has changed and is different to the Daytona models prior to VIN 564948. To adjust the butterfly valve and to avoid damage to the exhaust butterfly valve actuator, follow the procedure listed below.



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.

To help accurately check and set the adjustment of the control cables for the exhaust butterfly valve, use the Triumph diagnostic tool as described below.

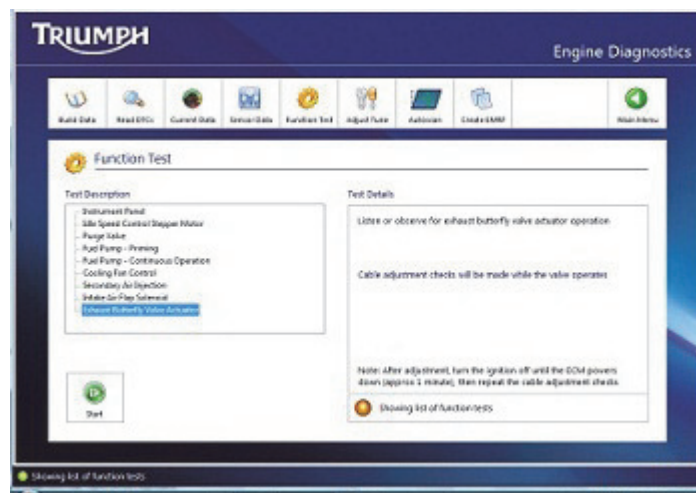
Check the control cables

1. Remove the rider's seat, as described in the service manual.
2. Attach the Triumph diagnostic tool to the dedicated plug and turn the ignition switch to the ON position. Refer to the Triumph Diagnostic Tool User Guide.
3. Open the Engine Diagnostics menu.



Engine Diagnostics Menu

4. Select the Function Test option.



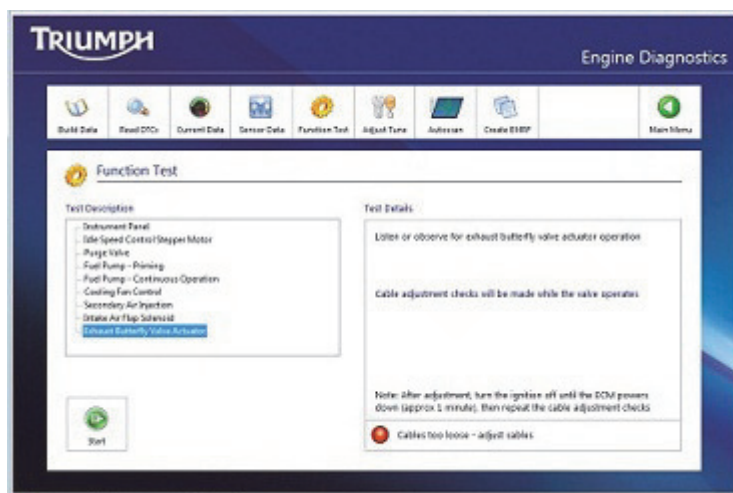
Function Test Menu



Warning

Clicking the 'Start' button will cause the exhaust butterfly valve to move several times. To prevent injury, never place loose clothing, fingers or hands near the exhaust valve actuator, cables or the valve on the silencer, until the actuator has moved to the adjustment position. Loose clothing, fingers or the hands could become trapped during valve/actuator movement and cause crushing injury to the fingers, hands or other parts of the anatomy.

5. Select Exhaust Butterfly Valve Actuator then click the 'Start' button. The software will also show the message 'Cable adjustment checks will be made while the valve operates'.
6. Typically, the software will operate the valve several times and will then report its cable adjustment findings near the bottom of the PC screen. In some circumstances, particularly if the cables are not correctly adjusted, the test result will be shown immediately without running a test. This is because the software recovers data from the ECU on initiation and does not need to run the function test to determine a result. The software will display four possible results as follows:
 - Cables too tight.
 - Cables too loose.
 - Cables not evenly adjusted.
 - Cables correctly adjusted.



Function Test Menu

Note:

- **With the diagnostic software in the Function Test screen, one cable will be under tension and the other will be slack. This will prevent the cables from being evenly adjusted.**
7. If the test fails, do not adjust the cables while the diagnostic software is in the Function Test screen. Select the Adjust Tune option then adjust the cables as described in Adjustment of the Control Cables.

Adjustment of the Control Cables

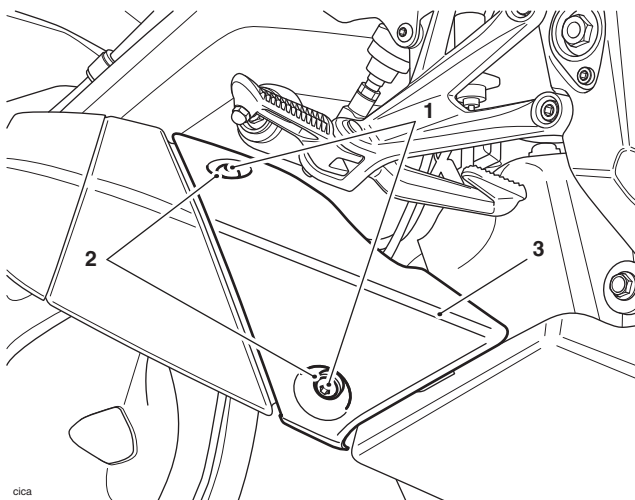


Caution

Do not rotate the pulley on the exhaust butterfly valve actuator. Rotating the pulley will damage the internal components of the actuator.

Note:

- **The adjustment procedure must be followed to give a preliminary cable setting. Correct cable adjustment must be confirmed by the diagnostic software.**
1. Release the fixings, collect the shouldered washers and remove the silencer's rear heat shield.



1. Fixings
2. Shouldered washers
3. Heat shield

2. On the diagnostic software, navigate to and select the Adjust Tune option.



Warning

Clicking the 'Adjust' button will cause the exhaust valve actuator to move to the adjustment position. To prevent injury, never place loose clothing, fingers or hands near the exhaust valve actuator, cables or the valve on the silencer, until the actuator has moved to the adjustment position. Loose clothing, fingers or the hands could become trapped during valve/actuator movement and cause crushing injury to the fingers, hands or other parts of the anatomy.

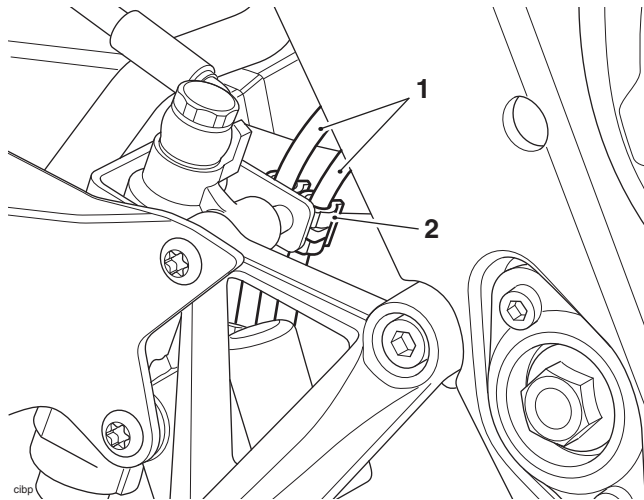
3. Select Exhaust Butterfly Valve Cable Adjust then click the 'Adjust' button.

Note:

- **The cable adjustment must only be made when the exhaust butterfly valve is in its middle position.**
4. Click the 'Adjust' button a second time. The diagnostic software will send a command which drives the exhaust valve actuator to the middle position. The diagnostic software will then show 'Adjust cable - press OK to continue' on the screen. Do not click the 'OK' button until the cable adjustment is completed.
 5. The exhaust butterfly cables can now be adjusted as follows:

Note:

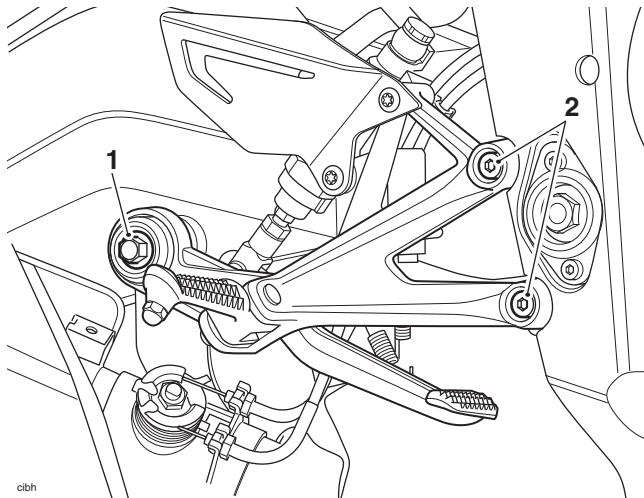
- **For easier access to the adjusters on the exhaust butterfly valve cables, the right-hand control plate should be detached from the frame and exhaust silencer.**
6. Detach the cables for the exhaust butterfly valve from their clip near the rear brake master cylinder.



1. Cables

2. Clip

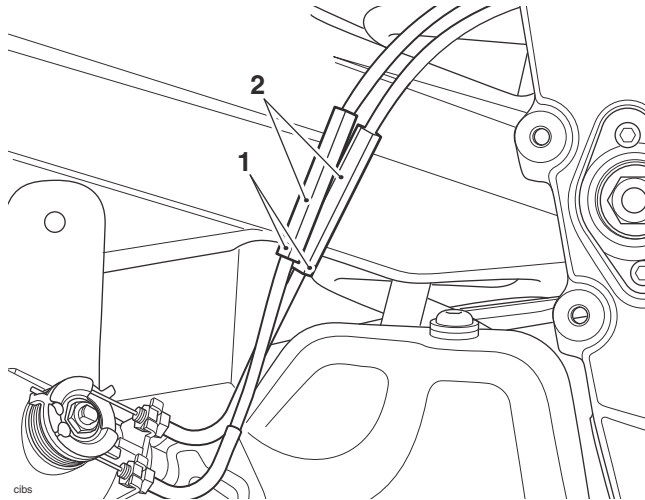
7. Remove the nut and bolt securing the silencer to the right-hand control plate.
8. Remove the two fixings securing the right-hand control plate to the frame.



1. Nut and bolt, silencer mounting

2. Fixings

-
9. Taking care not to scratch the frame with the control plate, release the adjuster lock nut on each exhaust butterfly valve cable.

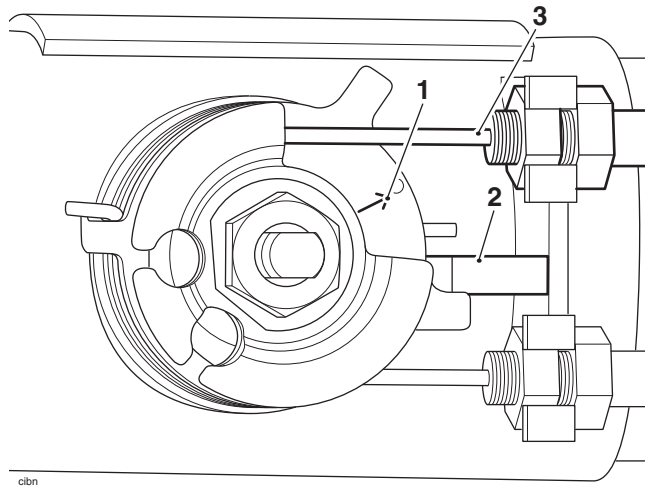


- 1. Lock nuts**
2. Adjusters, control plate removed for clarity

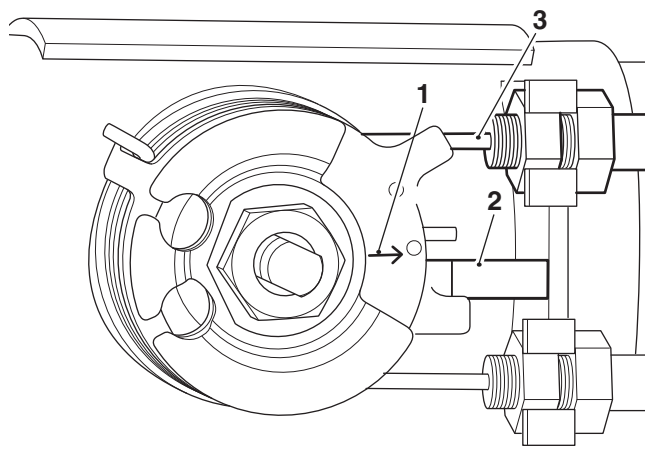
Note:

- **The closing cable is uppermost and has the silver coloured end.**

-
10. Adjust the closing cable adjuster until the arrow on the butterfly valve pulley is aligned with the upper edge of the butterfly valve stop.

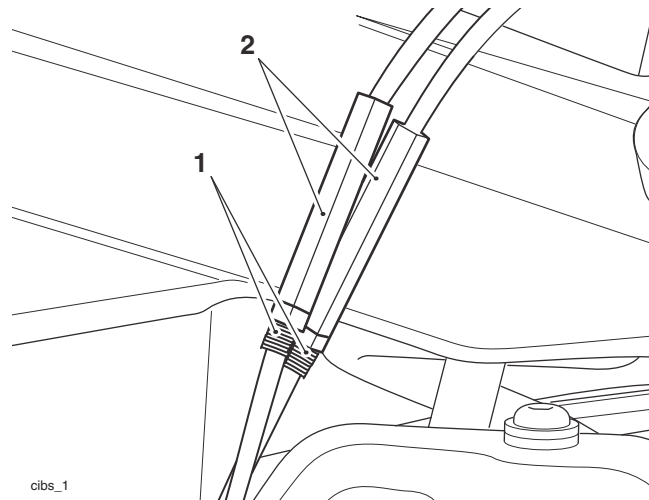


- 1. Arrow, before adjustment**
2. Butterfly valve stop
3. Closing cable



- 1. Arrow, after adjustment**
2. Butterfly valve stop
3. Closing cable

11. With the arrow aligned with the upper edge of the butterfly valve stop, adjust the opening cable until it has the same amount of thread showing as the closing cable.



1. Threaded area

2. Adjusters, control plate removed for clarity



Warning

Clicking the 'OK' button will cause the exhaust valve actuator to move to the closed position and then the fully open position. To prevent injury, never place loose clothing, fingers or hands near the exhaust valve actuator, cables or the valve on the silencer, until the actuator has stopped. Loose clothing, fingers or the hands could become trapped during valve/actuator movement and cause crushing injury to the fingers, hands or other parts of the anatomy.

12. When the adjustment of the cable is complete, click the 'OK' button. The exhaust butterfly valve will now move to the closed position and then the fully open position.
13. Click the 'OK' button again to finish.
14. If the adjustment is not correct, 'Cables too loose - Adjust cables' or 'Cables too tight - Adjust cables' will be displayed. Repeat steps 10 to 13 to tighten or loosen the cables evenly as required.
15. On the diagnostic software, click the 'Adjust' button to check the cable adjustment. If necessary, repeat the adjustment procedure.
16. Once adjustment is correct, tighten the adjuster lock nuts to **5 Nm**.

Note:

- **If the adjustment is not correct, the Malfunction Indicator Light (MIL) will be illuminated, indicating the presence of DTCs (Diagnostic Trouble Codes).**
 - **The following will be displayed: 'Exhaust butterfly cables adjust DTCs present - Read and erase DTCs'.**
17. Rectify the DTCs as necessary by repeating the adjustment procedure.
 18. On the diagnostic software, select READ STORED DTCS and erase any stored DTCs.
 19. Close the software and disconnect the Triumph diagnostic tool.
 20. Refit the rider's control plate, as described in the service manual.
 21. Refit the silencer heat shield, as described in the service manual.
 22. Refit the rider's seat, as described in the service manual.

Please mark your copy of the service manual with this information.

Item 13.

Description: **Service Manual Issue Level and Part Numbers**

Models affected: **All in Current Production**

Dealers are required to hold current and up-to-date service manuals. Use the list attached as Appendix A to review your holding and ensure the current manuals replace the out-dated ones as necessary.

Service manuals are available from the parts department.

For information relating to non-current motorcycles refer to technical news issue 99 or the EPC.

Please mark your copy of the service manual with this information.

Initial and date when read and return to central file holder

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

All current model, service manual part numbers and issue levels							
Model	English	French	German	Italian	Japanese	Spanish	Brazilian
America, Speedmaster	T3856090 Issue 1	T3856092 Issue 1	T3856091 Issue 1	T3856093 Issue 1	Not Available	T3856094 Issue 1	Not Available
Bonneville, Bonneville SE, Steve McQueen™ Edition, Bonneville 110 th Edition, Bonneville T100, Scrambler, Thruxton	T3856666 Issue 1	T3856662 Issue 1	T3856661 Issue 1	T3856663 Issue 1	T3856665 Issue 1	T3856664 Issue 1	T3856667 Issue 1
Daytona 675, Daytona 675R - up to VIN 564947 Street Triple, Street Triple R - up to VIN 560476	T3856771 Issue 1	T3856773 Issue 1	T3853772 Issue 1	T3856774 Issue 1	Not Available	Not Available	Not Available
Daytona 675, Daytona 675R - from VIN 564948 Street Triple, Street Triple R - from VIN 560477	T3856909 Issue 1	T3856912 Issue 1	T3856911 Issue 1	T3856913 Issue 2	Not Available	T3856914 Issue 1	T3856915 Issue 1
Rocket III, Rocket III Classic, Rocket III Touring, Rocket III Roadster	T3851570 Issue 1	T3851572 Issue 1	T3851571 Issue 1	T3851573 Issue 1	Not Available	Not Available	Not Available
Supplement to bring service manual up to issue 2	T3851570	T3851572	T3851571	T3851573			
Speed Triple 1050cc, Speed Triple R 1050cc from VIN 461332	T3856544 Issue 1	T3856545 Issue 1	T3856546 Issue 1	T3856547 Issue 1	Not Available	T3856549 Issue 1	T3856548 Issue 1
Sprint GT 1050cc (ABS), Sprint ST 1050cc, Sprint ST 1050cc (ABS)	T3856075 Issue 1	T3856076 Issue 1	T3856077 Issue 1	T3856078 Issue 1	T3856079 Issue 1	Not Available	Not Available
Thunderbird, Thunderbird SE, Thunderbird Storm	T3850730 Issue 1	T3850732 Issue 1	T3850731 Issue 1	T3850733 Issue 1	Not Available	T3850734 Issue 1	Not Available
Tiger 800, Tiger 800 (ABS), Tiger 800XC, Tiger 800XC (ABS)	T3856760 Issue 1	T3856762 Issue 1	T3856761 Issue 1	T3856763 Issue 1	Not Available	T3856765 Issue 1	T3856764 Issue 1
Tiger 1050, Tiger 1050 (ABS), Tiger Sport	T3857375 Issue 1	T3857376 Issue 1	T3857377 Issue 1	T3857378 Issue 1	Not Available	T3857379 Issue 1	Not Available
Tiger Explorer, Tiger Explorer XC	T3852795 Issue 1	T3852796 Issue 1	T3852797 issue 1	T3852798 Issue 1	Not Available	T3852788 Issue 1	T3852787 Issue 1
Trophy, Trophy SE	T3852790 Issue 1	T3852791 Issue 1	T3852792 Issue 1	T3852793 Issue 1	Not Available	T3852794 Issue 1	Not Available