



Technical Bulletin 193

11.2018

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Item: 193.1

Description: California Proposition 65 Hang Tag Reminder (Californian Market Only)

Model Affected: Tiger 800 XR, Tiger 800 XRX, Tiger 800 XRX LRH, Tiger 800 XCX, Tiger 800 XRT, Tiger 800 XCA, Street Cup, Street Twin, Bonneville T100 models from VIN 759204, Street Scrambler, Thruxton 1200, Thruxton 1200R, Bonneville T120 models, Bonneville Bobber, Bonneville Speedmaster from VIN 856224, Bonneville Bobber Black, Street Triple RS from VIN 800262, Street Triple R from VIN 806646, Street Triple R (LRH) from VIN 822626, Street Triple S from VIN 803572, Tiger 1200 XR, Tiger 1200 XRT, Tiger 1200 XRX, Tiger 1200 XRX LRH, Tiger 1200 XRT, Tiger 1200 XCA, Tiger 1200 XCX (from VIN 852216), Speed Triple S and Speed Triple RS

Dealers are reminded that from August 31st 2018 it is an offence under California State law to display a new 2019 model year motorcycle without a California Proposition 65 (Calif. Prop. 65) hang tag fitted to the motorcycle.

Therefore California dealers are advised to carry a small stock of the California Proposition 65 hang tags in the event that the original hang tags become inadvertently removed or shop soiled.

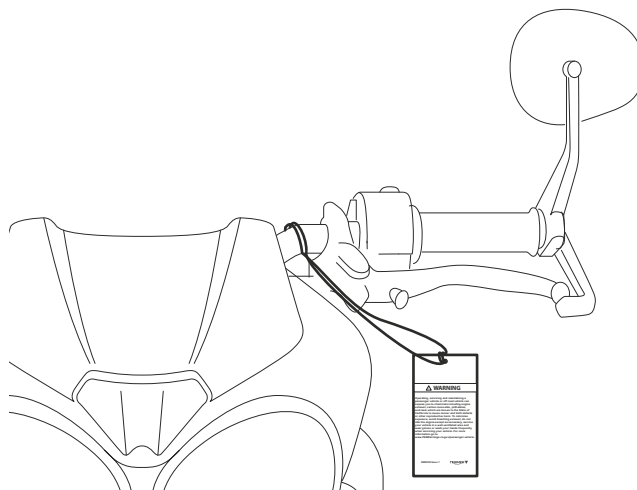
Additional California Proposition 65 hang tags can be ordered via EPC using part number T3900530.

All new 2019 model year motorcycles are fitted with a California Proposition 65 hang tag (part number 3900530) to the handlebars during manufacture and this must not be removed by dealers unless a replacement is being fitted.

Hang tags should remain attached to the motorcycle at the point of handover to the customers. Customers should remove hang tags from motorcycles themselves (they should not be removed by the dealer). Customers should be encouraged to keep the hang tag and not simply hand it back to the dealer.

Note:

- This regulation applies to motorcycles displayed and sold in the State of California only.
- Dealers outside of the State of California may wish to leave the hang tag in place; others may opt to remove it. However, all State of California Triumph dealers are required to display the hang tag on unsold motorcycles in order to comply with regulation.
- A California Proposition 65 hang tag (part number T3900530) is secured using an elastic band looped over the left hand side of the handlebars.



- Speed Triple RS shown

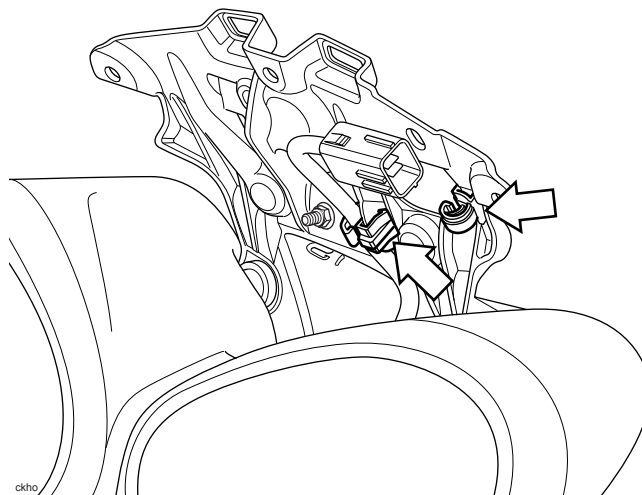
Item: 193.2
Description: Front Subframe Cable Clips
Model Affected: Speed Triple S and Speed Triple RS

A second cable clip has been fitted to the harness assembly on the front subframe of Speed Triple S and Speed Triple RS from VIN 903038.

The cable clip has been added only as an aid to assembly during production.

If you do work on one of the affected motorcycles and find that there is only one clip fitted, you do not need to fit a second clip.

In the same way, if there are two clips fitted, you do not need to remove one.



Positions of the two cable clips (arrowed)

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: 193.3

Description: Alternator Cover Sealant

Model Affected: Street Cup, Street Twin, Bonneville T100 models from VIN 759204, Street Scrambler, Thruxton 1200, Thruxton 1200R, Bonneville T120 models, Bonneville Bobber, Bonneville Speedmaster from VIN 739143 and Bonneville Bobber Black

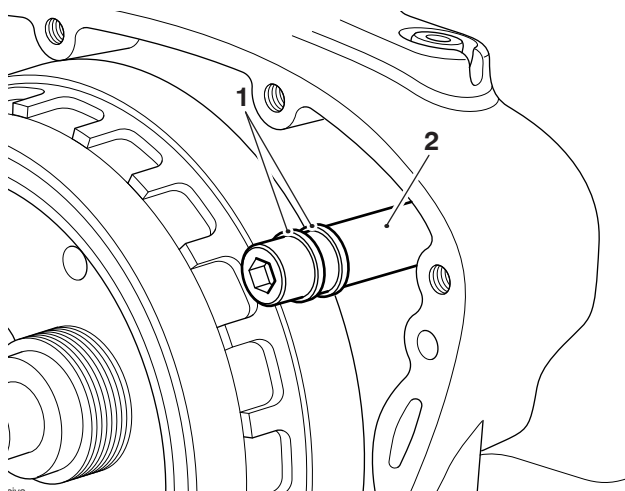
When installing the alternator cover to the crankcase on the above models ThreeBond1216E sealant is used in addition to the gasket in the area of the alternator harness grommet.

Removal

Removal of the alternator cover is described in the relevant Service Manual.

Installation

1. Thoroughly clean the crankcase, harness grommet and alternator cover mating faces.
2. Fit new O-rings to the balancer dead shaft.



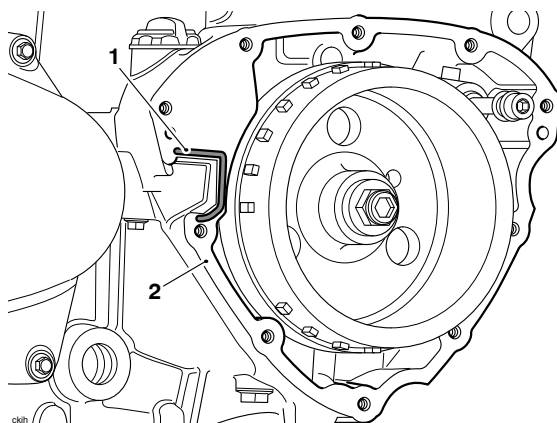
1. O-rings

2. Balancer dead shaft

3. Position a new gasket to the crankcase dowels.

Note:

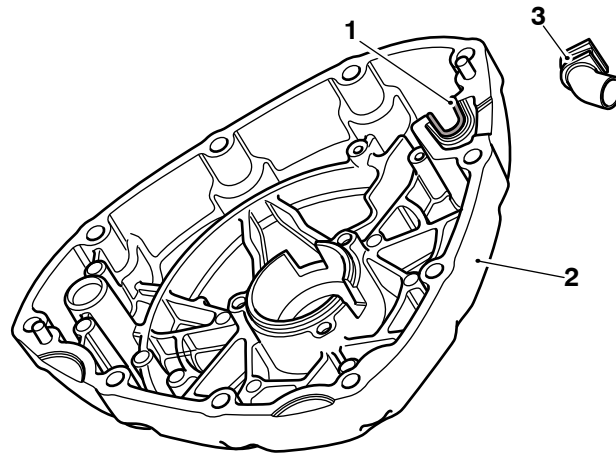
- When using ThreeBond1216E the mating faces must come into contact with each other within five minutes of application.
4. Apply a 2 mm (+/-0.5 mm) bead of silicone sealant to the outer surface of the gasket in the area shown in the diagram below, during manufacture, ThreeBond1216E is used.



1. Sealant area

2. Gasket

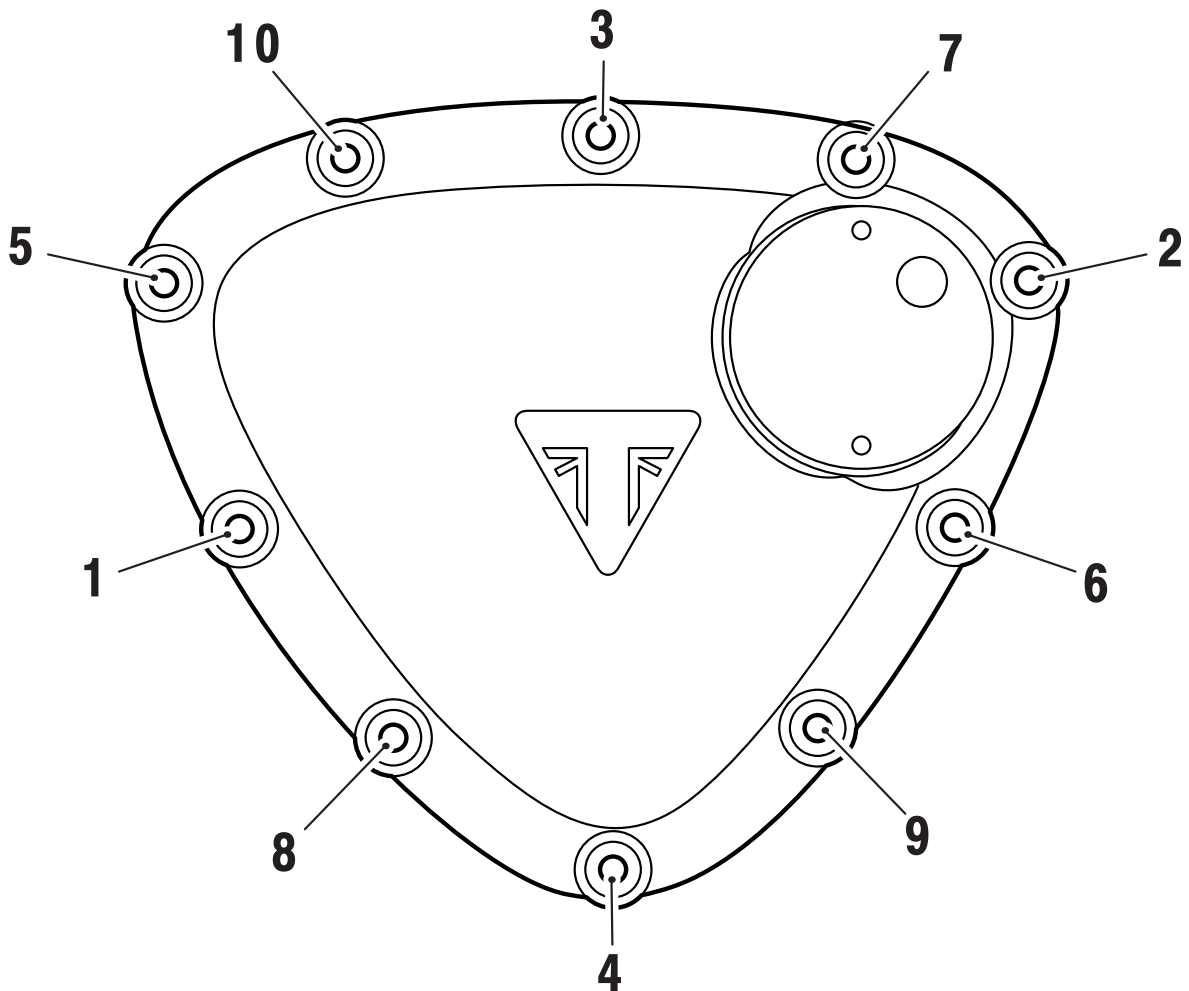
5. Apply a 2 mm (+/-0.5 mm) bead of silicone sealant to the area of the alternator cover at the location of the harness rubber grommet as shown in the diagram below, during manufacture, ThreeBond1216E is used.



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- 1. Sealant area
- 2. Alternator cover
- 3. Rubber grommet (harness removed for clarity)

6. Fit the alternator cover and tighten the fixings to **10 Nm**, in the sequence shown below.



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Tightening Sequence

-
7. Re-tighten fixings one and two to **10 Nm**.
 8. Refit the alternator harness as noted 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 when working on the relevant Triumph motorcycle. This information will be included in the next service manual update.

Item: 193.4
Description: Chassis ECM DTCs Flagged Incorrectly
Model Affected: Tiger 1200 XR

Investigations have found that the following DTCs may be incorrectly flagged on the above model:

- C1007 - Ignition switch ON correlation error.
- C1044 - Front position light undercurrent.

Dealers will find that they are unable to erase these DTCs using the Triumph Diagnostic Tool

This issue is due to an error in the chassis ECM calibration which causes these DTCs to be stored in error. There is no associated functional impact on the motorcycle and customers will not note any symptoms.

A new chassis ECM calibration is being produced to rectify this and will be released on the Triumph Diagnostic Tool as soon as possible.

In the meantime, dealers are advised that no action is required if these DTCs are found to be stored on the above motorcycle.

Item: 193.5

Description: Pin Point Test - Power Source Voltage Drop/Voltage Rise

Model Affected: Tiger 800 XR, Tiger 800 XRX, Tiger 800 XCX, Tiger 800 XRT and Tiger 800 XCA

The pinpoint test for Power Source Voltage Drop/Voltage Rise (C1661 and C1662) has changed for the above models. This information amends the current Service Manual section of TriTun - Brakes - Pinpoint Test - Power Source Voltage Drop/Voltage Rise.

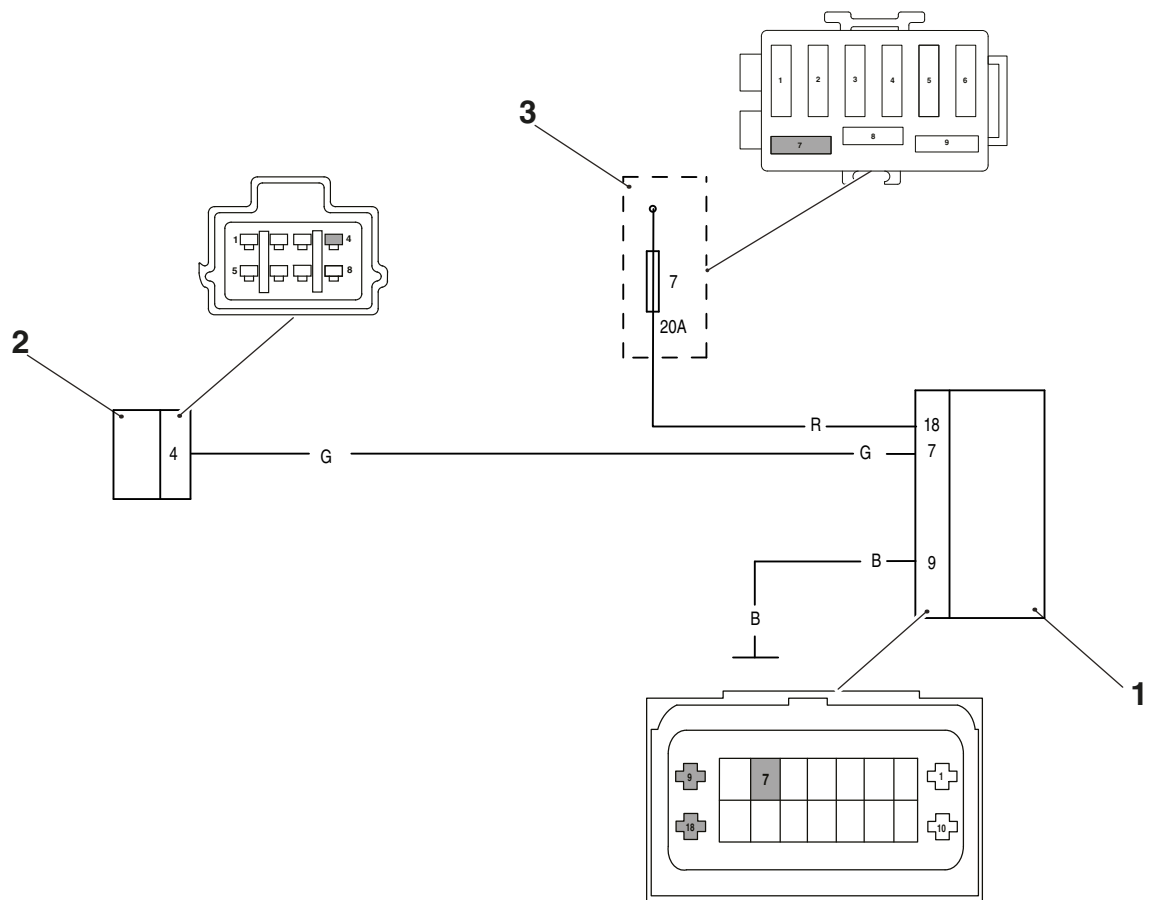
The revised pinpoint test is as described below.

Fault Code	Possible cause	Action
C1661	Power source Voltage drop	Ensure ABS modulator connector is secure. Disconnect ABS modulator connector and proceed to pinpoint test 1:
C1662	Power source Voltage rise	

Pinpoint Tests

Test	Result	Action	
1	Check battery Voltage: - Battery positive (red) terminal and negative (black) terminal Check fuse 7 integrity Check cable and terminal integrity: - ABS modulator connector pin 7, pin 18 and ground pin 9	OK	Proceed to test 2
	Faulty	Rectify fault, proceed to test 5	
2	Check the cable for continuity: - ABS modulator connector pin 9 and ground - ABS modulator connector pin 18 and fuse 7 - ABS modulator connector pin 7 and Ignition switch pin 4	OK	Proceed to test 3
	Faulty	Rectify wiring harness fault, proceed to test 5	
3	Check battery Voltage: With ignition ON, check the Voltage between: - ABS modulator connector pin 7 and ground pin 9 - ABS modulator connector pin 18 and ground pin 9	Voltage greater than 10 V	Proceed to test 4
	Voltage less than 10 V	Locate and rectify fault, proceed to test 5	
4	Check battery Voltage: Reconnect ABS modulator connector and start the engine. Check the Voltage between: - Battery positive (red) terminal and negative (black) terminal	Voltage between 10 V and 16 V	Proceed to test 5
	Voltage greater than 16 V	Check the battery charging circuit. Locate and rectify fault, proceed to test 5	
5	Clear fault code and test ABS to verify fault cleared	OK	Action complete - quit test
	Fault still present	Contact Triumph service	

Circuit Diagram



1. ABS Modulator
2. Ignition Switch
3. Fuse Box

Item: 193.6
Description: Inner Tube Valve Nut
Model Affected: Street Scrambler

The torque figure for the inner tube valve nut has been omitted from the current Service Manual for the above model.

Application	Torque (Nm)	Notes
Inner tube valve nut	1.5 Nm	

If for any reason the inner tube is removed or replaced tighten the valve nut to **1.5 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: 193.7

Description: Swinging Arm/Chain Rubbing Strip - Parts Kit

Model Affected: Tiger 800, Tiger 800 ABS, Tiger 800XC, Tiger 800 XC ABS, Tiger 800XC Special Edition, Tiger XR, TigerXRX, Tiger XRT, Tiger XC, TigerXCX, TigerXCX LRH and Tiger XCA,

This Technical Bulletin supercedes Technical News 165 item 2 dated October 2015

To coincide with the release of a revised swinging arm and chain rubbing strip a parts kit has been made available in the event a replacement swinging arm is required.

The following tables are designed as an aid when ordering replacement parts.

All Markets except Brazil and India

- A Swinging arm (T2051703) and chain rubbing strip (T2051795) are not retrofittable as individual replacements to motorcycles from VIN 466344 up to VIN 727598. Use parts kit T2052508.
- A drive chain rubbing strip (T2051790) can be used as a direct replacement to motorcycles up to VIN 727598 unless the swinging arm has been replaced by part number T2051703 (see table below).
- A Swinging arm (T2051703) and chain rubbing strip (T2051795) can be used as a direct replacement to motorcycles from VIN 727599.

When Replacing	Market	All Models	Use
Chain rubbing strip	All markets except Brazil and India	Up to VIN 727598	Chain rubbing strip T2051790
	All markets except Brazil and India	From VIN 727599	Chain rubbing strip T2051795
Swinging arm	All markets except Brazil and India	From VIN 466334 to VIN 727598	Parts kit T2052508

Note:

- **If the swinging arm is replaced with a swinging arm parts kit T2052508 on models up to VIN 727598 always document the changes in the owner's Service Record Book.**

Brazil and Indian markets Only

- A Swinging arm (T2051703) and chain rubbing strip (T2051795) are not retrofittable as individual replacements to motorcycles from VIN 466344 up to VIN 729056. Use parts kit T2052508.
- A drive chain rubbing strip (T2051790) can be used as a direct replacement to motorcycles up to VIN 729056 unless the swinging arm has been replaced by part number T2051703 (see table below).
- A Swinging arm (T2051703) and chain rubbing strip (T2051795) can be used as a direct replacement to motorcycles from VIN 729057.

When Replacing	Market	All Models	Use
Chain rubbing strip	Brazil and India markets only	Up to VIN 729056	Chain rubbing strip T2051790
	Brazil and India markets only	From VIN 729057	Chain rubbing strip T2051795
Swinging arm	Brazil and India markets only	From VIN 466334 to VIN 729056	Parts kit T2052508

Note:

- **If the swinging arm is replaced with a swinging arm parts kit T2052508 on models up to VIN 729056 always document the changes in the owner's Service Record Book.**

All Markets

T2052508 - Kit, Swingarm spares kit

Kit Part Number	Kit Contents	Part Numbers
T2052508	Swinging arm	T2051703
	Chain rubbing strip	T2051795

When ordering parts always refer to the EPC.

Item: 193.8
Description: Service Manual Correction - Rear Brake Disc Minimum Thickness
Model Affected: Tiger 1200 XR, Tiger 1200 XRT, Tiger 1200 XRX, Tiger 1200 XRX LRH, Tiger 1200 XRT, Tiger 1200 XCA and Tiger 1200 XCX (from VIN 852216)

It has been identified that in the current Service Manual and Service Data Sheet the rear brake disc minimum thickness is incorrect for the above models.

Dealers are required to refer to the amended specification sheet listed below when measuring a rear brake disc for minimum wear.

Specifications - Brakes

Front Type	Two, four piston radial calipers acting on twin discs
Front Caliper Piston Diameter	32.0 mm
Front Disc Diameter	305.0 mm
Front Disc Thickness	4.5 mm (standard)
	4.0 mm (service limit)
Front Disc Run-out Max.	0.15 mm
Front Wheel Speed Sensor Air Gap	0.1 mm - 1.5 mm
Front Master Cylinder Diameter	15.87 mm
Recommended Fluid	DOT 4 brake and clutch
Rear Type	Twin piston sliding caliper acting on single disc
Rear Caliper Piston Diameter	27.0 mm
Rear Disc Diameter	255.0 mm
Rear Disc Thickness	5.0 mm (standard)
	4.5 mm (service limit)
Rear Disc Run-out Max.	0.5 mm
Rear Wheel Speed Sensor Air Gap	0.1 mm - 1.5 mm (Non adjustable)
Rear Master Cylinder Diameter	14.0 mm
Recommended Fluid	DOT 4 brake and clutch

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: 193.9

Description: Service Manual Correction - Main Bearing Selection

Model Affected: Street Triple RS from VIN 800262, Street Triple R from VIN 806646, Street Triple R (LRH) from VIN 822626, Street Triple R 70kw/35kw from VIN 823373, Street Triple S from VIN 803572 and Street Triple 660cc from VIN 818083

It has been identified that in the current Service Manual the crankshaft main bearing selection chart and crankshaft specification table differ for the above models.

Dealers are required to refer to the amended running clearance chart listed below to calculate the bearing selection.

Main Bearing Selection Chart

Shell Colour	Crankcase Bore	Crankshaft Journal Diameter	Running Clearance
White	37.984 to 37.975	35.000 to 34.993	0.033 to 0.011
Red	37.984 to 37.975	34.992 to 34.984	0.034 to 0.011
Red	37.993 to 37.985	35.000 to 34.993	0.034 to 0.013
Blue	37.993 to 37.985	34.992 to 34.984	0.035 to 0.013

Crankshaft Specification Table

Crankshaft Big End Journal Diameter	33.010 - 33.026 mm
Service Limit	32.970 mm
Crankshaft Big End Bearing Clearance	0.035 - 0.065 mm
Service Limit	0.070 mm
Crankshaft Main Bearing Journal Diameter	34.984 - 35.000 mm
Service Limit	34.960 mm
Crankshaft Main Bearing Clearance	0.011 - 0.035 mm
Service Limit	0.070 mm
Crankshaft End Float	0.15 - 0.30 mm
Crankshaft Run-out	0.02 mm or less
Service Limit	0.05 mm

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: 193.10

Description: Owners Handbook Correction - Scheduled Maintenance Chart

Model Affected: Tiger Sport from VIN 750470

It has been identified that the rear wheel needle roller bearing lubrication has been omitted from the wheels and tyres section of the scheduled maintenance table in the Owners Handbook for the above model. The correct service schedule is listed in the current Service Manual.

Note:

- **When carrying out a scheduled service always follow the maintenance procedure described in the Service Manual.**

The service maintenance section for the wheel bearings is listed below.

Operation Description	Odometer Reading in Miles (Km) or Time Period, whichever comes first					
		First Service	Annual Service	Mileage Based Service		
	Every	500 (800) 1 month	Year	6,000 and 18,000 (10,000 and 30,000)	12,000 (20,000)	24,000 (40,000)
Wheels and Tyres						
Rear wheel needle roller bearing - lubricate	-				•	•
Wheel bearings - check for wear/ smooth operation	-	•	•	•	•	•

Item: 193.11

Description: Motorcycle Assembly Guide - Windscreen Installation

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

The method for installation of the windscreen has changed.

The windscreen fixings must be fitted as described below.

The following Assembly Guide is for the above motorcycles.

Assembly

1. Remove the motorcycle from the steel delivery crate as described in Part 1 - Motorcycle Unpacking Guide.

Warning

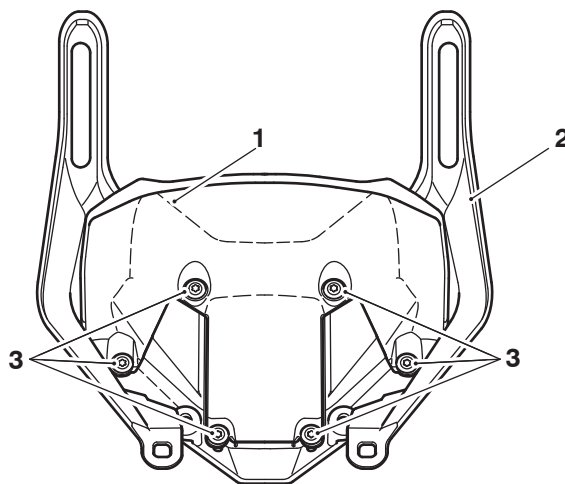
Ensure the motorcycle is stabilised and adequately supported. This will help prevent it from falling and causing injury to the operator or damage to the motorcycle.

Windscreen

1. Recover the windscreen, windscreen support, instrument cowl and fixings from the parts box.

All Models except Tiger 800 XR

1. Fit the instrument cowl to the windscreen support and tighten the six 11 mm Torx fixings to **1.5 Nm**.



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1. Instrument cowl
2. Windscreen support
3. Fixings

Caution

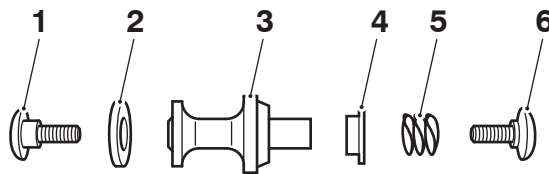
The windscreen fixing is M5 x 16 mm with a 4.1 mm shoulder

The adjuster fixing is M5 x 17 mm with a 2.1 mm shoulder

The adjuster fixing must be fitted to the adjuster side of the flanged bush and the windscreen fixing to the windscreen side of the flanged bush.

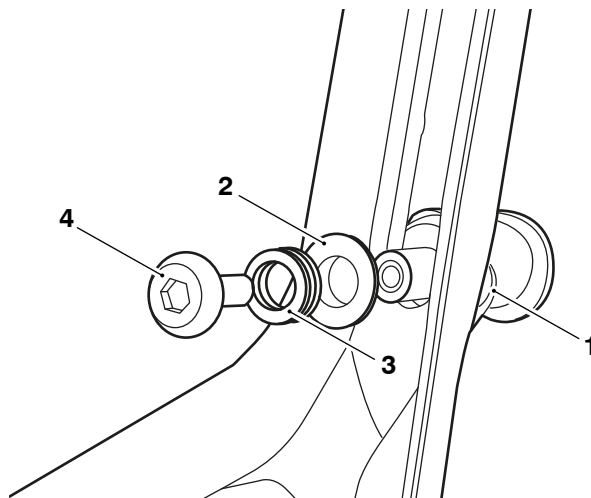
Incorrect fitment of the windscreen causes vibration, resulting in damage to the motorcycle.

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2. Collect the following windscreen adjuster components.



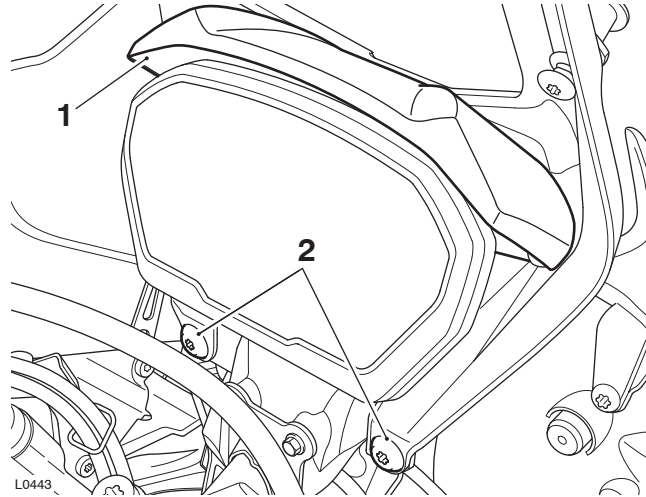
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1. **Windscreen fixing M5 x 16 mm (4.1 mm shoulder)**
 2. **Rubber washer**
 3. **Flanged bush**
 4. **Flanged sleeve**
 5. **Spring**
 6. **Adjuster fixing M5 x 17 mm (2.1 mm shoulder)**
3. Position the flanged bush to the outside edge of the windscreen support as shown in the following illustration.
 4. Fit the flanged sleeve and spring to the flanged bush on the inside edge of the windscreen support.
 5. Fit the adjuster fixing, counter hold the flanged bush and tighten the fixing to **3 Nm**.



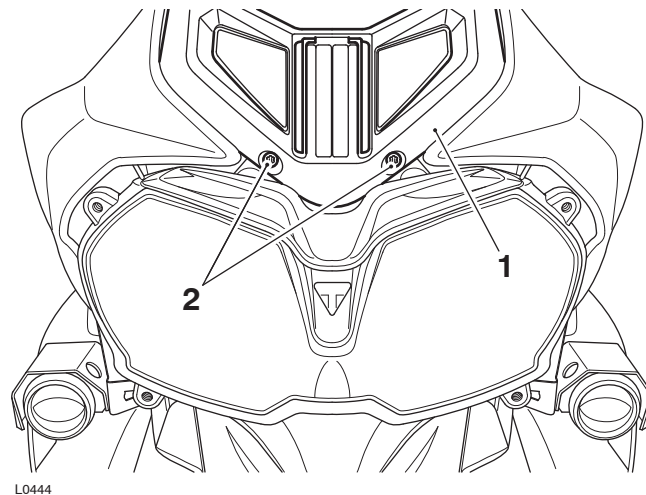
1. **Flanged bush**
 2. **Flanged sleeve**
 3. **Spring**
 4. **Adjuster fixing M5 x 17 mm (2.1 mm shoulder)**
6. Repeat steps 2 to 5 for the remaining windscreen adjuster.
 7. Position the windscreen support to the cockpit as shown in the illustrations below.

8. Fit the two M6 x 12 mm windscreen rear support fixings, do not fully tighten at this stage.



1. Windscreen support
2. M6 x 12 mm Fixings

9. Fit the two front windscreen support M6 x 20 mm fixings.
10. Tighten the front and rear fixings to **5 Nm**.



1. Windscreen support
2. M6 x 20 mm fixings

Caution

When fitting self-adhesive parts care must be taken to ensure positioning is correct and accurate. Once the adhesive has been attached to the mounting surface, there is no satisfactory method of removal and re-positioning if incorrectly aligned. Initial bonding is instant, full bonding is achieved after 72 hours.

11. Remove the backing strip from the Tiger badge. Position the badge to the front surface of the windscreen lower support as shown in the following illustration. Secure by using even pressure to ensure a good bond is achieved.

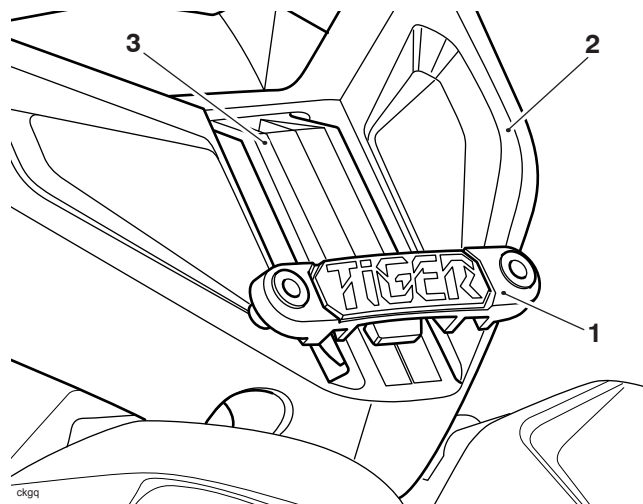
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12. Fit the two well nuts to the windscreen lower support.



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- 1. Windscreen lower support
- 2. Tiger badge
- 3. Well nuts

13. Fit the windscreen lower support to the windscreen adjuster slide on the windscreen moulding and slide it down to the end of the slide.

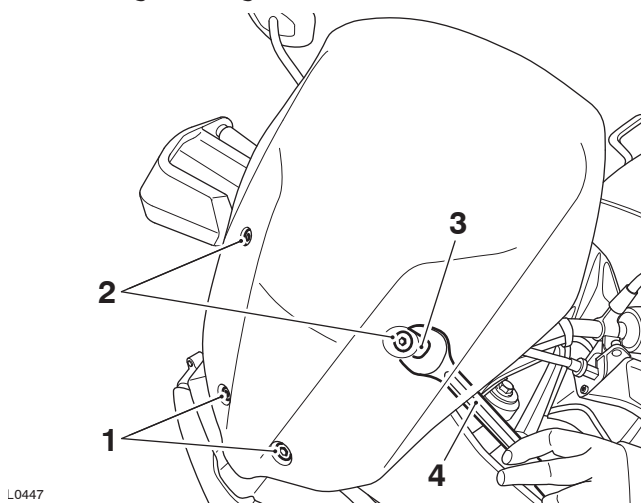


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- 1. Windscreen lower support
- 2. Windscreen moulding
- 3. Adjuster slide

14. Fit the rubber washers to the windscreen side of the flanged bush.
15. Position the windscreen on to its four mounting points.

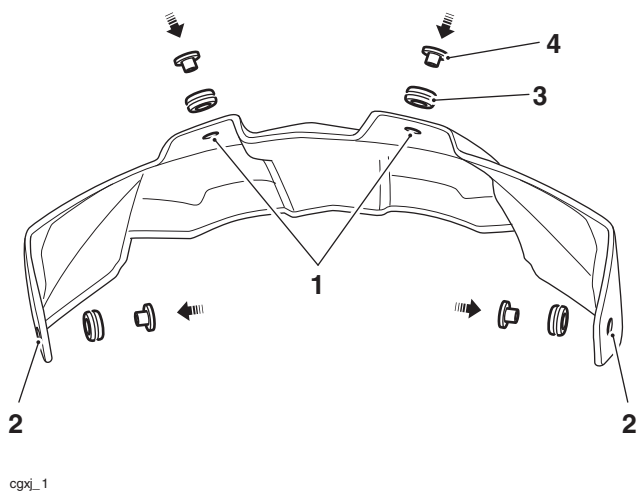
16. Fit the windscreen upper fixings to the upper mountings, counter hold the flanged bush and tighten the fixings to **3 Nm**.
17. Fit the two windscreen lower fixings and tighten to **3 Nm**.



1. Lower fixings
2. Upper fixings
3. Flanged bush
4. Spanner

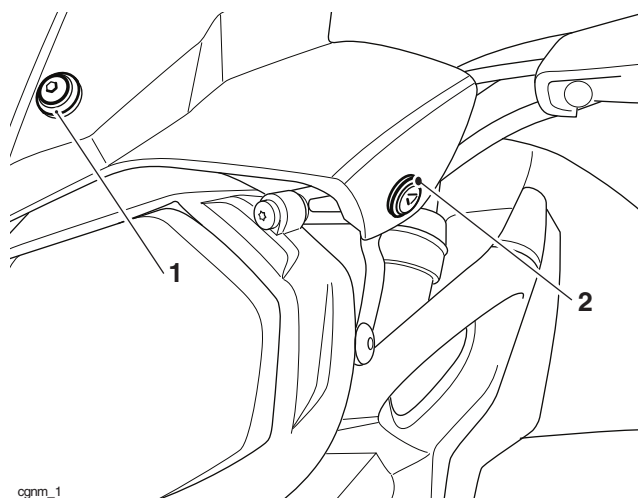
Tiger XR 800 only

1. Fit four rubber grommets to the centre and outer windscreen mounting holes and insert the flanged sleeves as shown below.



1. Centre mounting holes
2. Outer mounting holes
3. Rubber grommets
4. Flanged sleeves

2. Position the windscreen to the cockpit making sure the sliding centre brackets are centralised and the O-rings are securely positioned against the centre headlamp bracket.
3. Secure the windscreen centre mountings using the M5 x 16 mm screws and the outer mountings using the M5 x 20 mm screws, ensuring that all screws are inserted from the outside of the windscreen. Fit the four lock nuts and tighten to **3 Nm**.



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1. Centre mounting - M5 x 16 mm screws (left hand shown)
2. Outer mounting - M5 x 20 mm screws (left hand shown)

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