



Technical News 166

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Strictly Confidential

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Item 1.

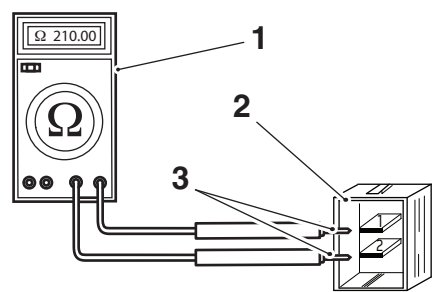
Description: Crankshaft Position Sensor/Ignition Pick Up

Models affected: Bonneville, Scrambler, Thruxton, Speedmaster and America models with an air cooled engine

The crankshaft position sensor/ignition pick up is tested using an ohms meter.

To check the internal resistance of the sensor:

- Disconnect and isolate the sensor’s electrical connector from the wiring harness;
- Set the multimeter to ohms;
- Touch one probe to one electrical terminal of the sensor, the other to the remaining electrical terminal;
- Note the reading on the instrument;
- Compare with the resistance shown in the specification table.



- 1. Multimeter
- 2. Electrical connector
- 3. Probes

Parts Description	Instruments	Carburettor Models	EFI Models
Crankshaft position sensor/ignition pick up (part number T1290131)	Models with mechanical instruments	530 ohms +/- 10% at 20°C	N/A
Crankshaft position sensor/ignition pick up (part number T1290131)	Models with mechanical instruments	N/A	530 ohms +/- 10% at 20° C
Crankshaft position sensor (part number T1296501)	Models with electronic instruments	N/A	210 ohms +/- 10% at 20°C

For removal and installation of the ignition pick up coil or crankshaft position sensor refer to the Service Manual.

If replacing a sensor always refer to the EPC and Technical News 118.

Please mark your copy of the Service Manual with this information.

Item 2.

Description: Front Brake Hose P-clip

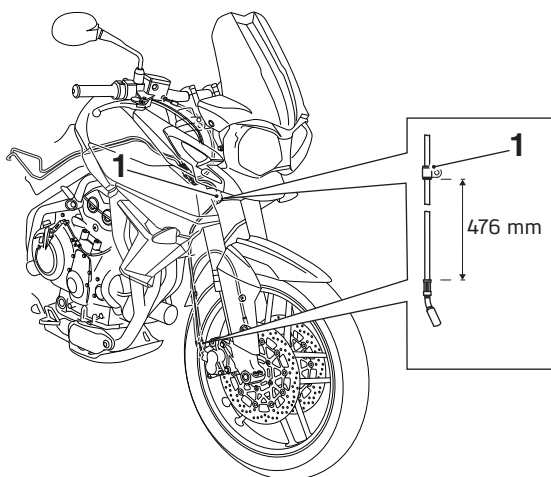
Models affected: Tiger XR_x-LRH and Tiger XR_c-LRH from VIN 730987 to VIN 731005

The above models are fitted with a front brake hose secured by a P-clip to the lower yoke.

If removed for any reason the P-clip must be repositioned 476 mm from the edge of the brake hose union.

When fitting a new front brake hose discard the P-clip and secure the brake hose using the pre-positioned clamp supplied with the hose.

When replacing a front brake hose always refer to the EPC.



1. P-clip

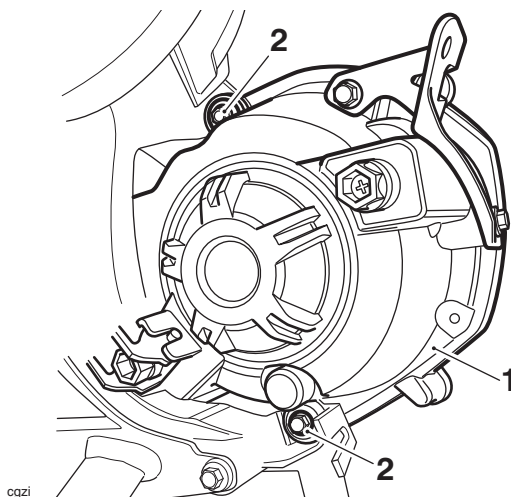
Please mark your copy of the Service Manual with this information.

Item 3.

Description: Headlight Fixings

Models affected: Tiger 800, Tiger 800XC, Tiger XCA, Tiger XCx, Tiger XR_x and Tiger XR_t

The torque figure for the headlight fixings has changed to **4 Nm** on the above models.



1. Headlight

2. Fixings (right hand shown)

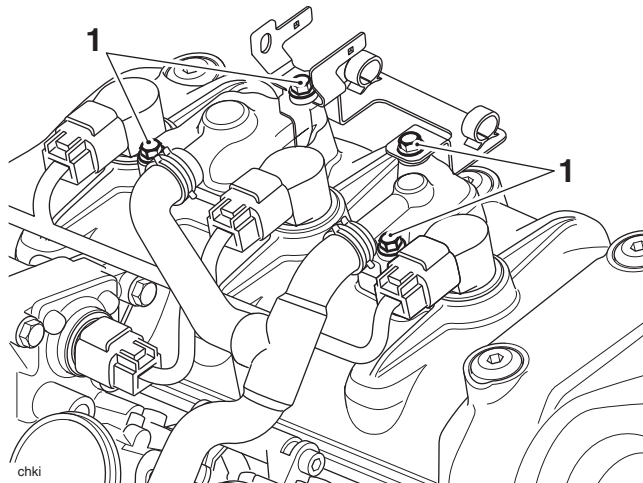
Please mark your copy of the Service Manual with this information.

Item 4.

Description: Reed Valve Cover Torque Fixing

Models affected: All 1050 cc engine variants, Tiger Explorer, Tiger Explorer XC, Trophy and Trophy SE

The torque figure for the reed valve cover fixing has changed to **9 Nm** on the above models.



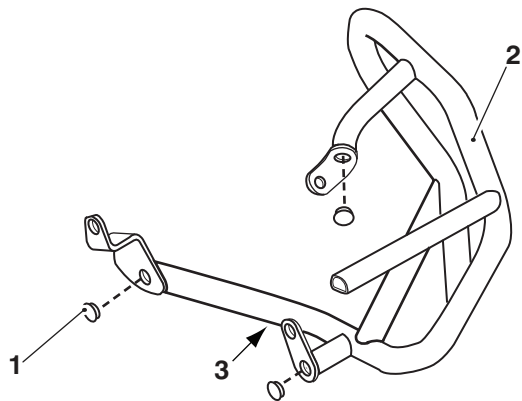
1. Fixings (Tiger Explorer shown)

Please mark your copy of the Service Manual with this information.

Item 5.

Description: Engine Bar Plugs
Models affected: Tiger XC and Tiger XCa

A modification has been introduced to the engine bars fitted to the above models from VIN 737369. Three plugs are fitted to each engine bar and a drain hole has also been introduced. The new engine bars are retrofittable to the above models.



- 1. Plug
- 2. Engine bar
- 3. Location of drain hole

The engine bars are no longer available individually as a spares item but must be ordered as part of a spares kit as detailed below:

T2071678 - Kit, Engine Bar, LH

Kit Contents	Quantity
T2071674 - Engine Bar Assembly, LH	1
T3454545 - Plug, Dia 12 mm.	3

T2071679 - Kit, Engine Bar, RH

Kit Contents	Quantity
T2071675 - Engine Bar Assembly, RH	1
T3454545 - Plug, Dia 12 mm.	3

When ordering replacement parts, always refer to the EPC.

Please mark your copy of the Service Manual with this information.

Item 6.

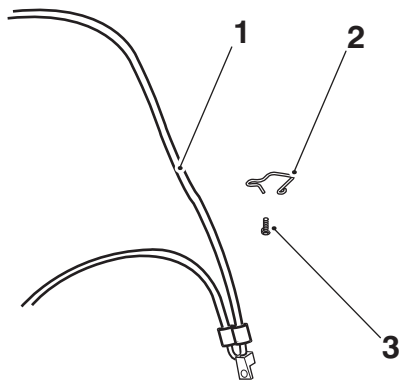
Description: Lower Yoke Wire Guide

Models affected: Tiger XCx, Tiger XCa and Tiger XC

A new lower yoke wire guide has been introduced to the above models from VIN 733650. The new lower yoke wire guide has a modified profile to improve clearance to the radiator guard.

The new lower yoke wire guide is retrofittable to the above models.

The fixing used is the same as the previous lower yoke wire guide and the torque remains at **6 Nm**.



- 1. Front brake hose
- 2. Lower yoke wire guide
- 3. Fixing

When ordering replacement parts, always refer to the EPC.

Please mark your copy of the Service Manual with this information.

Item 7.**Description:** **Front Fork Oil Level and Volume****Models affected:** **Tiger XCx-LRH (Low Ride Height)**

The front fork oil level and oil volume figures are now available for the above model.

When replacing the fork oil on the above model, follow the procedure detailed in the Service Manual noting the following:

Oil Level (fork fully compressed, spring removed)	Oil Volume (dry fill)	Oil Grade
80 mm	503 cc	WP 4860-1166 SAE4

Service Manual Part Numbers Affected	Pages Affected
3857170-BR	1.38, 12.11 and 12.13
3857170-DE	1.43, 12.11 and 12.13
3857170-EN	1.37, 12.10 and 12.12
3857170-ES	1.41, 12.11 and 12.13
3857170-FR	1.42, 12.11 and 12.13
3857170-IT	1.40, 12.10 and 12.12
3857170-JP	1.39, 12.11 and 12.13
3857170-TH	1.35, 12.10 and 12.12

Please mark your copy of the Service Manual with this information.

Item 8.

Description: Motorcycle Assembly Guide Update - Backrest Bar

Models affected: Thunderbird LT

The passenger backrest bar will no longer be factory fitted to the above model from VIN 738585. Instead, the backrest bar, clamp plates and fixings will be provided in the packing crate as part of the parts kit and screw pack.

Dealers will be required to install the backrest bar prior to Pre Delivery Inspection (PDI).

Note:

- The backrest bar should be installed prior to fitting the backrest pad as described in the Motorcycle Assembly Guide.
- When installing the backrest bar, follow the procedure below:

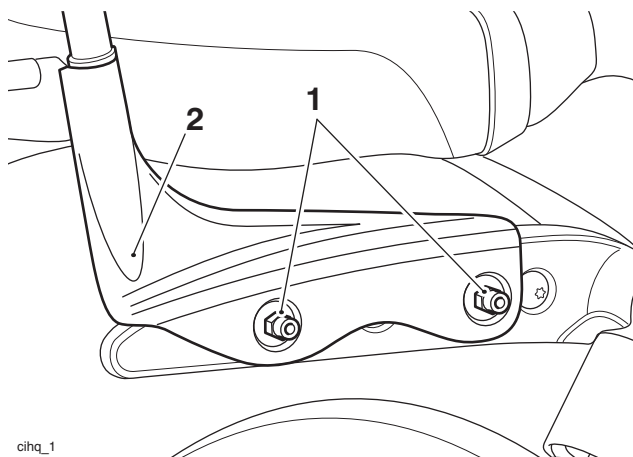
Backrest Bar Installation



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 panniers as described in the Service Manual.
2. Loosen the four fixings securing the backrest brackets to the motorcycle. Do not fully remove.

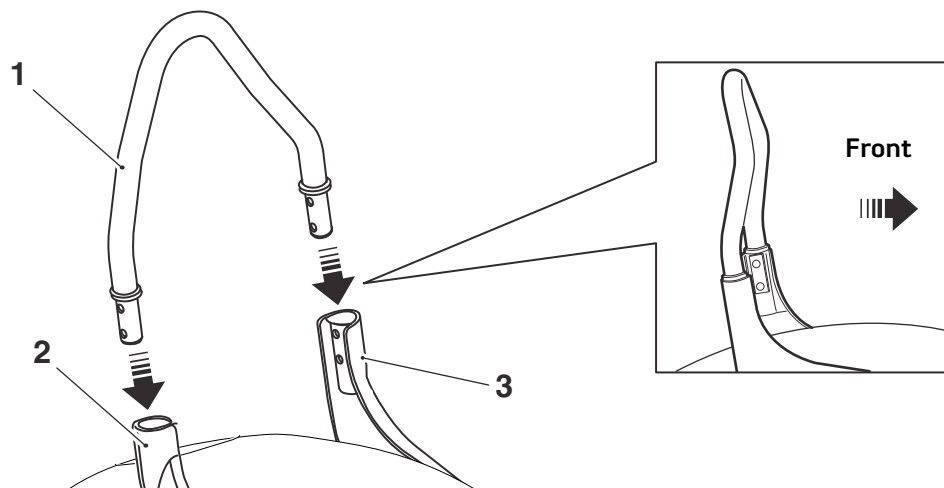


1. Fixings (right hand shown, left hand similar)
2. Backrest bracket

Note:

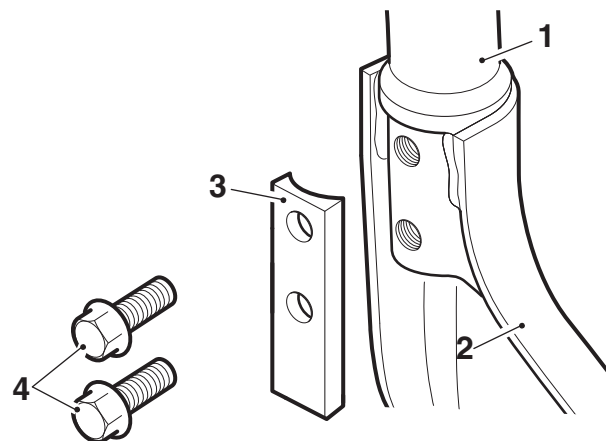
- The backrest bar is located in one of the panniers.

3. Recover the backrest bar and locate it fully into the backrest bar brackets, in the orientation shown below:



1. Backrest bar
2. Backrest bar bracket (right hand)
3. Backrest bar bracket (left hand)

4. Recover the clamp plates and the M8 x 25 mm fixings from the screw pack. Position the clamp plate to the backrest bar bracket and secure using the fixings. Do not fully tighten the fixings at this stage.



1. Backrest bar
2. Backrest bar bracket (left hand shown)
3. Clamp plate
4. M8 x 25 mm fixing

5. Tighten the four fixings securing the backrest brackets to the motorcycle to **20 Nm**.
6. Tighten the backrest bar fixings to **27 Nm**.
7. Refit the panniers as described in the Service Manual.

Please mark your copy of the Motorcycle Assembly Guide with this information.

Item 9.

Description: Rear Bevel Box Parts Kit

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

A new rear bevel box assembly incorporating a longer hub shaft has been introduced on the above models from engine number 726747 (UK ONLY) or engine number 737465 (ALL MARKETS EXCEPT UK).

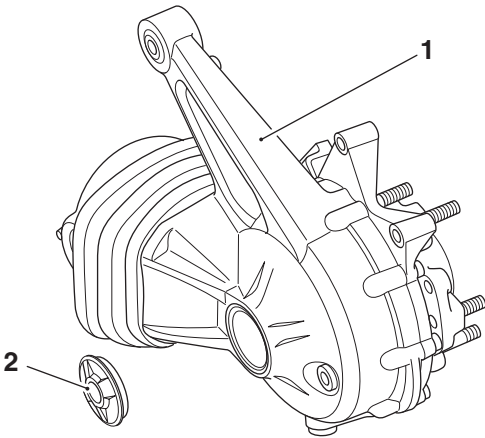
A new cap has also been introduced for use with the new bevel box assembly to accommodate the longer hub shaft.

The new rear bevel box assembly and cap are retrofittable to all earlier engine numbers only when fitted together as part of a kit. To facilitate this, parts kit T1275555 has been released for use with the above models up to engine number 726746 (UK ONLY) or engine number 737464 (ALL MARKETS EXCEPT UK).

Parts will continue to support the old condition bevel box caps for use with models already in service but will no longer support the old condition rear bevel box assembly. Any replacement rear bevel box assemblies will be the new condition.

Parts Kit T1275555 - Rear Bevel Box, Slotted Cap

Kit Contents	Quantity
T1273030 - Rear Bevel Box Assembly	1
T1270052 - Cap, Rear Bevel Box	1



- 1. Rear bevel box assembly
- 2. Cap

Note:

- Rear bevel box removal, inspection and installation is as described in the Service Manual.

**Warning**

Under no circumstance should the rear bevel box be disassembled beyond what is described in the Service Manual. Failure to observe the above warning could lead to a malfunction of the rear bevel box causing lock-up of the rear wheel leading to loss of motorcycle control and an accident.

When ordering replacement parts, always refer to the EPC.

Please mark your copy of the Service Manual with this information.

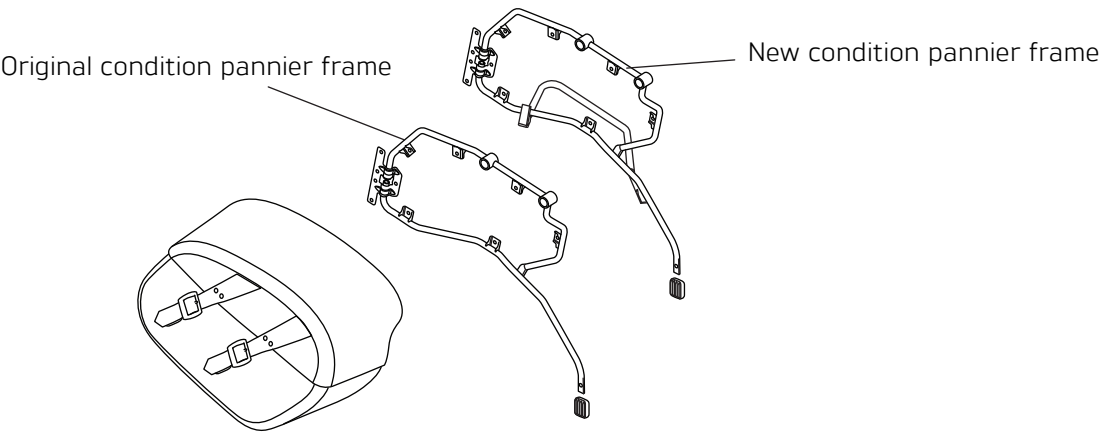
Item 10.

Description: Pannier Frame

Models affected: Thunderbird LT

A new pannier frame has been introduced to the above models from VIN 739570. The new frame is retrofittable and the original pannier can be fitted to it.

The difference between the original condition and new condition pannier frame is the addition of a bar to improve pannier support.



- 1. Original condition pannier frame
- 2. New condition pannier frame

Please mark your copy of the Service Manual with this information.

Circulation

Initial and date when read and return to central file holder

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