



Model Year 2016 Multistrada 1200 Enduro Introduction
Models: 2016 Multistrada 1200 Enduro (all country versions)
Service Bulletin SRV-SRB-16-012

Date: April 7, 2016
To: Dealer Principal, General Manager, Service Manager, and Service Technician
From: Richard Kenton, Technical Director; Jonathan LaForte, Technical Manager

Dear Ducati Dealer,

Ducati is pleased to provide further details regarding service strategy for the Model Year 2016 Multistrada 1200 Enduro; which will complete the information that you've already received, or that you will receive, during the technical courses at our training centers.

Within the document you will also find all the references necessary to prepare the vehicle for Pre-delivery Inspection, the instructions for vehicle maintenance, and information to provide to the Customer when delivering the bike.

Please be reminded that during the first 6 months (until 9/30/2016) any and all faults found on the motorcycle must be communicated through YouTech, including a detailed description and picture(s). Warranty claim approval is dependent upon these reports (this process does not apply to service under Campaigns, Technical Bulletins or Tips & Tricks).

Here follows a recap of the status of all Service operations associated with this model:

Technical Training	Already completed
Spare parts catalogue	Already available on DCS
Workshop manual	Available by April on DCS
DDS Diagnosis 2.0	Already available for download (update 6.0.3)
Maintenance Plan and Pre-delivery inspection	Attached to this Service Bulletin
Flat rate tables	Available by April on DCS
Owner's manual	Already available on Ducati.com website under section Dealers/Service/Maintenance



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Main new technical features

Engine:

- Specific generator and clutch covers
- Gearbox featuring a shorter first gear (38/14 ratio)



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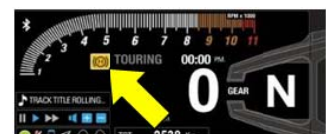
Vehicle:

- Sachs fork with electronically-controlled damping Ducati Skyhook Suspension (DSS), specific calibration, 48 mm diameter, progressive spring and bottom end set more forward
- Sachs monoshock with electronically-controlled damping Ducati Skyhook Suspension (DSS), specific calibration and spring preload
- Oversized center distance (1594 mm)
- Non-adjustable steering damper
- Aluminum double-sided swinging arm
- Z43 rear sprocket
- 30-litre oversized tank
- Brushed aluminum tank side covers
- New specific silencer
- Specific sump guard (ground clearance 205 mm)
- Raised setup with front and rear wheel travel of 200 mm
- Central stand
- Rear-view mirrors with a new aluminum arm
- 50 mm-higher handlebar compared to Multistrada STD (20 mm-higher handlebar and additional 30mm spacers)
- Modified grab handles for improved ergonomics
- Seat height: 870 mm non-adjustable (850 mm lowered seat and 890 mm raised seat available as DP accessories; a passenger seat optimized for off-road use, for the rider only, is also available)
- Precision cast rider footpegs with removable rubber blocks
- Foldaway gearbox pedal to prevent breaking
- Adjustable rear brake pedal on 2 levels (On-road and Off-road)
- Adjustable handlebar tilt on 2 levels (On-road and Off-road)
- Modified front mudguard and front plastic
- Specific rear mudguard for increased protection against debris
- Spoked rims with aluminum grooves (front 3'x19'; rear 4.5'x17')
- Pirelli Scorpion Trail II tires + double type-approval for off-road tire



Electronics:

- ABS with new Vehicle Hold Control function (VHC)
- TFT instrument panel with specific software, Trip Master feature in Enduro mode





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	VERSION	STANDARD EQUIPMENT
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**MULTISTRADA
1200 ENDURO**



- Multistrada Link
- Riding Modes (Touring, Enduro, Sport, Urban)
- Power Modes
- Full Ride by Wire
- Bosch - Brembo ABS 9.1ME Cornering braking system
- Ducati Traction Control (DTC)
- Ducati Wheelie Control (DWC)
- Vehicle Hold Control (VHC)
- Cruise control
- Ducati Multimedia System (DMS)
- 5" color TFT display
- Full LED headlight with Ducati Cornering Lights (DCL)
- Backlit handlebar buttons
- Preset for anti-theft system
- 1 USB port and two 12V power sockets

SEAT HEIGHT ORIGINAL EQUIPMENT	
870 mm	EUR/AUS/CAL/CDN versions
850 mm	JAP and APAC versions

A seat allowing increase of height to 890 mm is available as a Ducati Performance accessory.

COLORS

Bodywork	Frame	Rims
Phantom Grey	Racing Grey	Black
Red	Racing Grey	Black
Star White Silk	Racing Grey	Black



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The Multistrada 1200 Enduro is also customizable in 4 different customization packages, which can all be combined together:

TOURING

- Touratech aluminum side panniers
- Heated handgrips
- Handlebar bag



ENDURO

- Touratech tank protection bars
- Lower chain guide
- Rear brake disc guard
- Water radiator and oil cooler protection
- Auxiliary LED lights



SPORT

- Termignoni type-approved silencer
- CNC clutch and brake reservoir covers
- Aluminum water pump cover



URBAN

- Touratech aluminum top case
- Small tank bag
- USB cable for charging mobile phones





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Vehicle pre-delivery

The PDI Check-List is attached to this Service Bulletin (**Ed.04/16**) and includes all operations required for the pre-delivery inspection; please print out and use this document any time you are inspecting Multistrada 1200 Enduro Model Year 2016 for PDI, deliver a copy to the final Customer and file another one together with the relevant work order.



PRE-DELIVERY - Check List

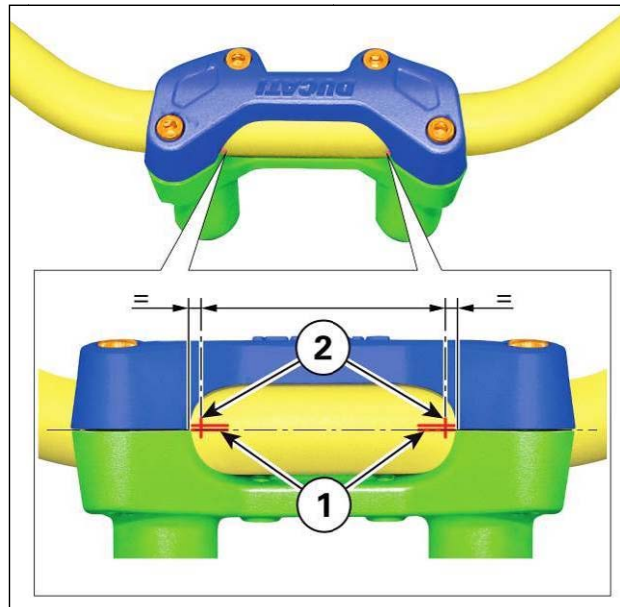
• **Handlebar and control assemblies (if required)**

- 1) Remove handlebar service support.
- 2) Set handlebar at the centre of lower U-bolt so that **lower reference marks (1)** are aligned with the upper surface of lower U-bolt and **reference marks (2)** are equidistant from the central opening of upper U-bolt.



NOTE

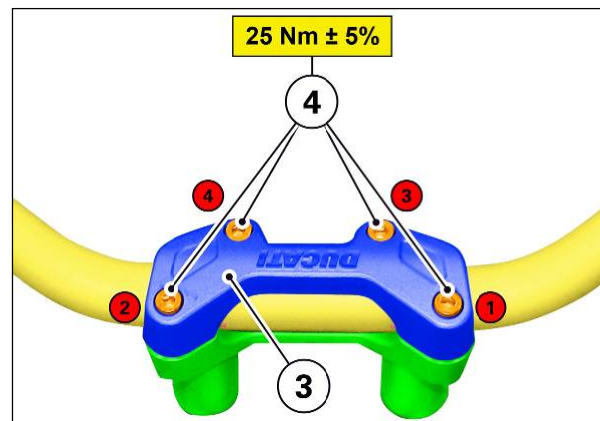
In this configuration (alignment with the lower mark), the handlebar is installed in On-Road mode (sitting position).





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- 3) Install **upper U-bolt (3)** and tighten **4 M8x1.25 retaining screws (4)** to a torque of **$25 \text{ Nm} \pm 5\%$** with SHELL GADUS S2 V220 AD 2 grease following this sequence: 1 – 2 – 3 – 4 – 3 and certify.

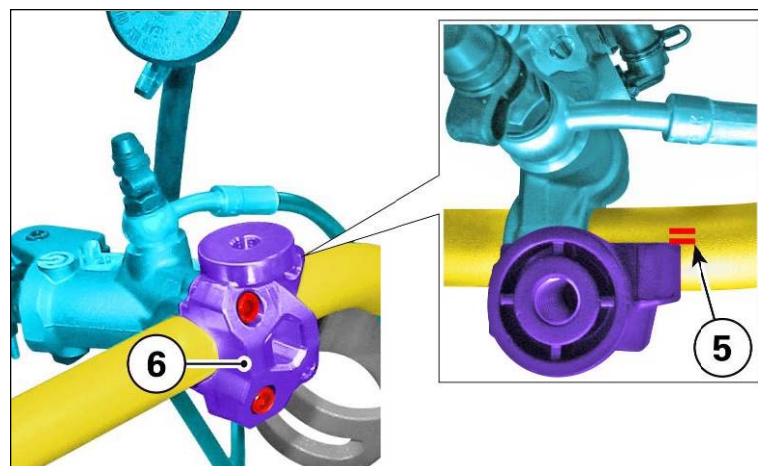


- 4) Install clutch master cylinder body-hand guard assy on the handlebar so that **lower reference mark (5)** is aligned with the mating surface between **clamp (6)** and clutch master cylinder body-hand guard assy.



NOTE

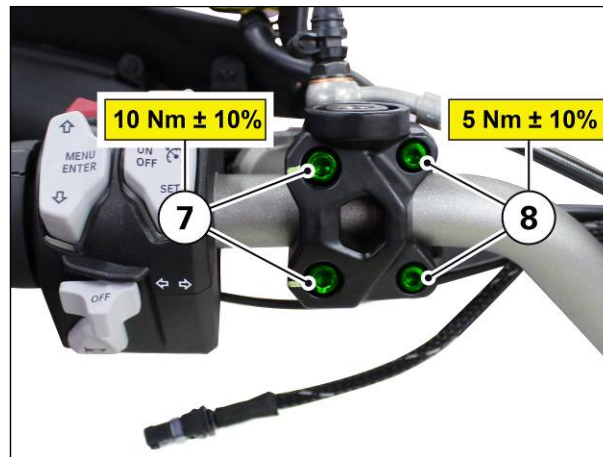
If aligned with the rear mark, the clutch master cylinder body-hand guard assy is set in the On-Road mode (sitting position).



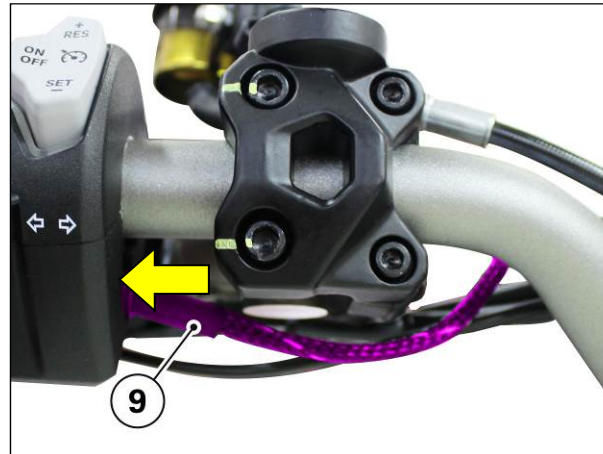


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- 5) Tighten the **2 clutch master cylinder M6x1 (7) screws** to a torque of **10 Nm ± 10%** and the **2 hand guard M5x0.8 screws (8)** to a torque of **5 Nm ± 10%**.



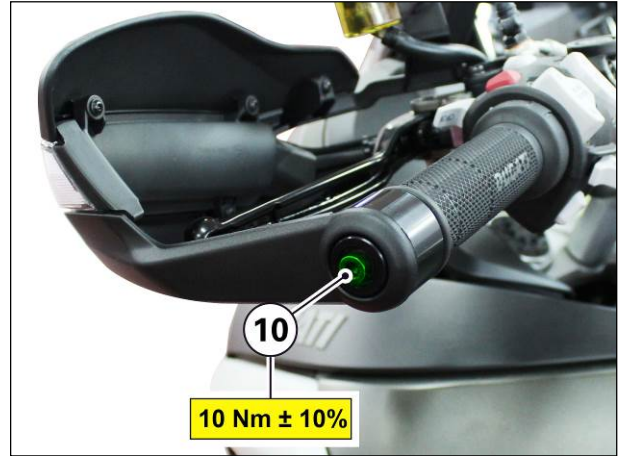
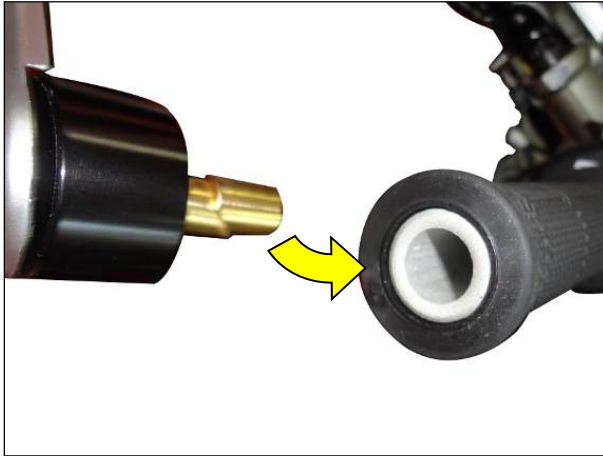
- 6) Connect the **connector (9)** to LH switch.





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7) Tighten **M6x1 screw (10)** securing hand-guard to handlebar to a torque of **10 Nm ± 10%**.

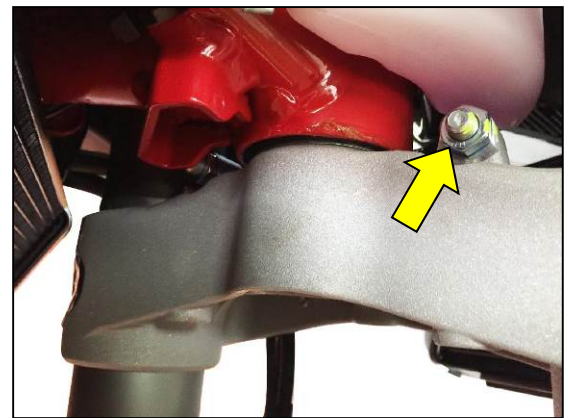


WARNING

Check that turning the handlebar fully to the right and to the left there is no interference with the fuel tank and headlight fairing.

If there is some interference, work on handlebar position between the stud bolts and the U-bolt with small movements.

If these measures prove ineffective, use stop adjusters to reduce the steering angle and tighten the adjuster lock nut to a torque of **18 Nm ± 5%** with Loctite 243.

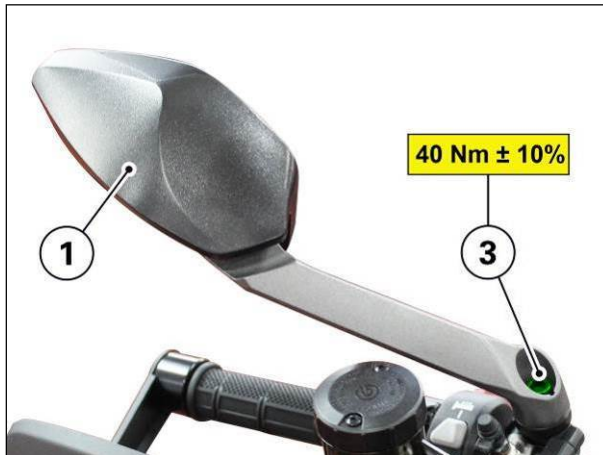




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Rear-view mirror assembly

- 1) Place **RH (1)** and **LH (2)** rear-view mirror on the relevant supports fastened onto the handlebar.
- 2) Tighten **M10x1.25 screws (3)** and **(4)** to a torque of **40 Nm ± 10%**.



Install mirror hole blanking rubber caps



- 3) Apply the DESMO SERVICE 30000 km sticker to both rear-view mirrors.





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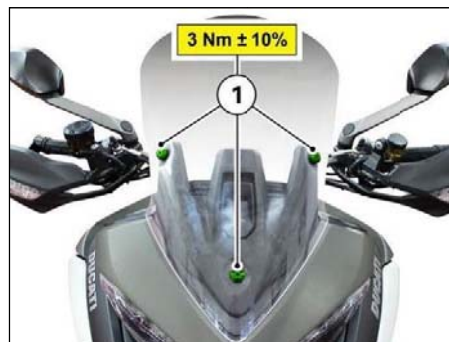
NOTE

For CAL and CDN versions, apply the following stickers on both mirrors:



Windscreen assembly

- 1) Fit 3 H-shaped rubber blocks into windscreen holes using soapy water.
- 2) Place windscreen on its support on the vehicle, start **3 M5x0.8 screws (1)** and tighten them to a torque of **3 Nm ± 10%**.



NOTE

For CAL and CDN versions apply the following sticker on the windscreen:





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Battery initialization



WARNING

Read carefully filling, charging and installation instructions before operating on the battery.

After filling the electrolyte, it is necessary to let the battery rest for at least 30 minutes. Always charge the battery upon the first operation and after long storage periods – such as before selling the vehicle. Leaving the battery discharged for more than one month could damage it; always use the Ducati battery charge maintainer part no. 69924601A.

Only use constant voltage battery chargers (as specified under Bulletin 909-SAT, Ducati Service approved battery chargers for lead-acid batteries are the following: Yuasa: MB2023, MB2020, MB2040, MB2060 and TecMate: BatteryMate 150-9, BatteryMate 60-3, Optimate Pro Series).

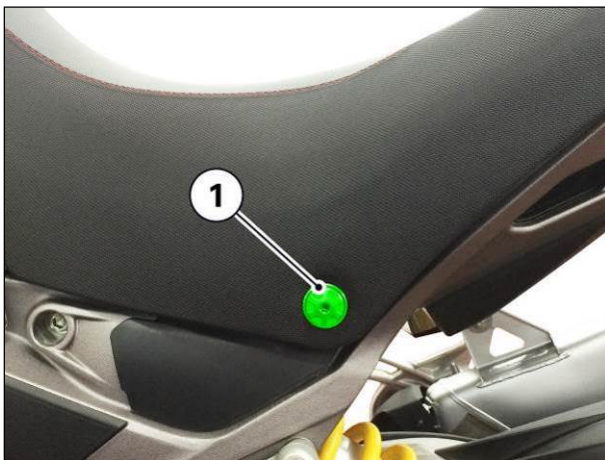
Check that battery terminals are properly connected to the battery charger.

To recharge the battery, follow the instructions on the battery; for more details, refer to the table:

Type of charging	Volt (V)	Ampere (A)	Time (Hours)
Normal	12	0.9	5 ÷ 10

• **Battery assembly on vehicle**

- 1) Remove passenger seat.
- 2) Loosen **2 M6x1 screws (1)** on LH and RH side retaining the rider seat and remove it.





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- 3) Remove the M5x0.8 screw retaining BBS control unit support bracket/battery.
- 4) Install **rubber mount (2)** on the battery as shown in the figure.



- 5) Fit the battery into the battery compartment.



WARNING

Align the reference hole on **rubber mount (2)** with the plastic pin in battery compartment.

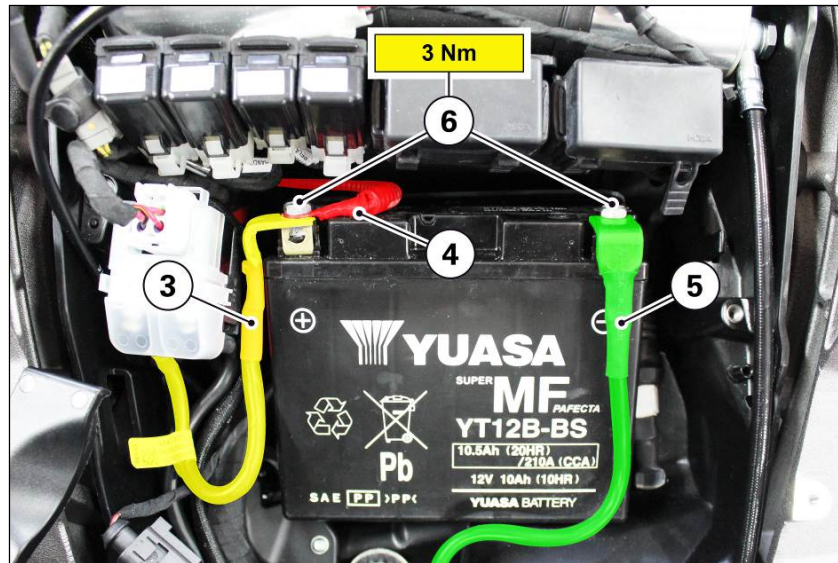




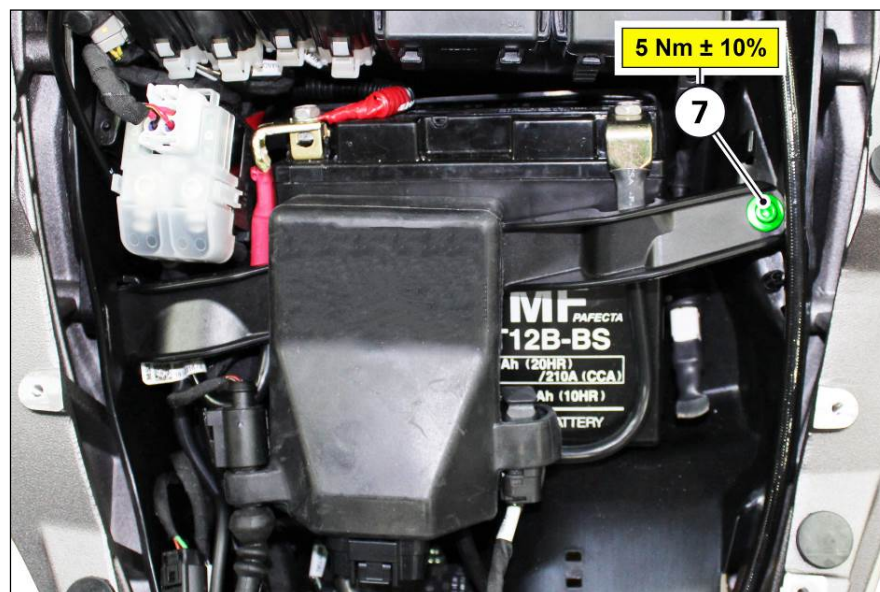
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- 6) Connect **vehicle positive cable (3)** and **ABS positive cable (4)** to battery positive terminal and **negative cable (5)** to the negative terminal.

Tighten **2 screws (6)** to a torque of **3 Nm**.



- 7) Install the BBS control unit support bracket/battery and tighten **M5x0.8 retaining screw (7)** to a torque of **5 Nm ± 10%**.



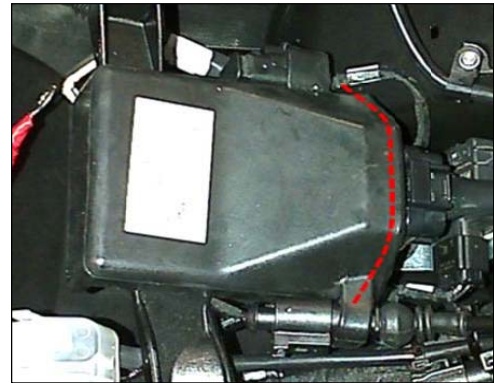


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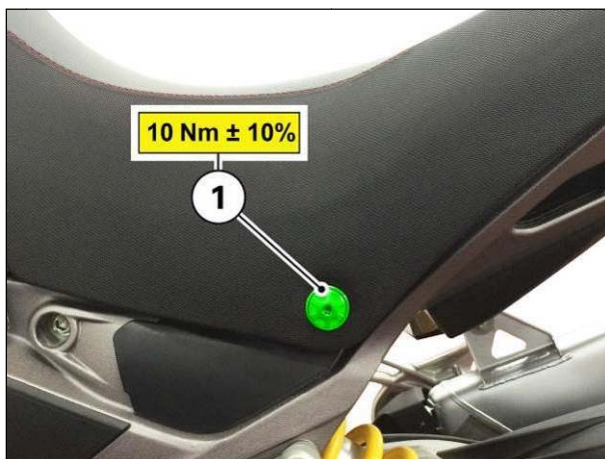
NOTE

Check that the BBS control unit is perfectly placed in its rubber support. By pressing with a finger on the back of the rubber BBS support surface make sure it is perfectly fitted; also check that the end of the rubber support, on connector side, is properly fitted onto the BBS control unit body.



- 8) Install the rider seat and tighten **2 M6x1 retaining screws (1)** on LH and RH side to a couple of **10 Nm ± 10%**.

Fit the passenger seat.





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Date and time setting

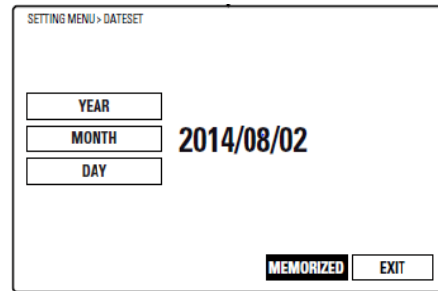
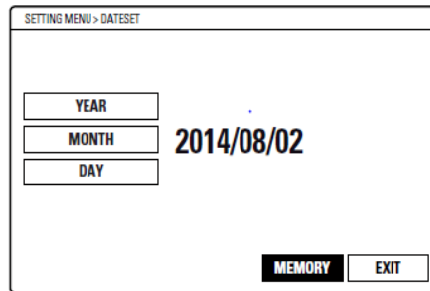
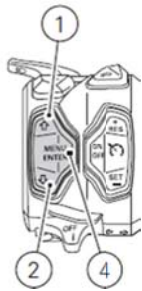
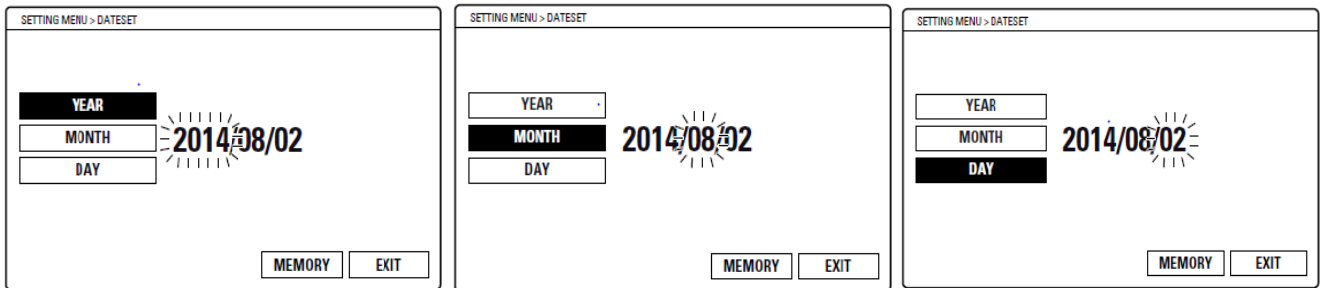


WARNING

Please note that setting the date on the instrument panel is essential for the user to receive all information pertaining to the scheduled annual maintenance.

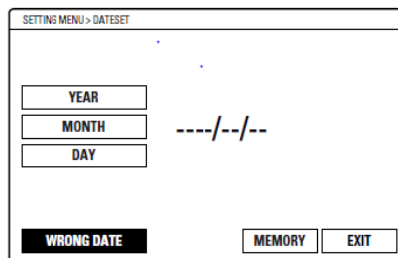
The date adjustment is done by selecting the "DATA SET" feature in the setting menu; you can then enter or change the year, month and day.

By pressing **buttons (1)** and **(2)** on LH switchgear and confirming with **button (4)** you can set the date; to confirm your selections, move to "MEMORY" and press button (4) for at least 3 seconds.



NOTE

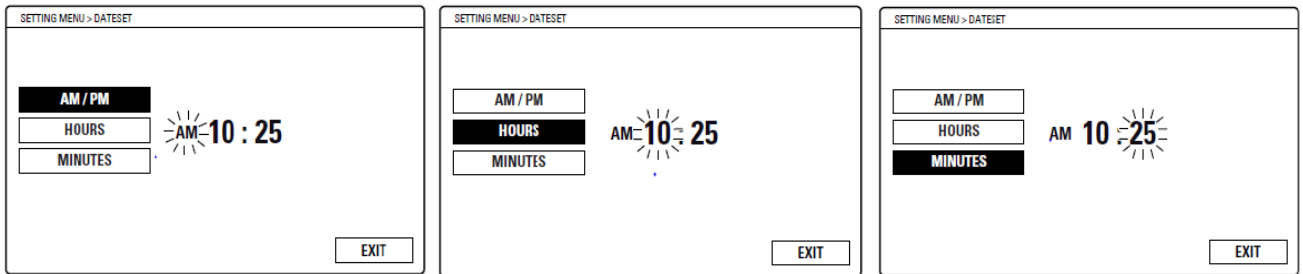
If you enter a date prior to the SERVICE DATE, and therefore prior to the date set at Oil Service 1000, the instrument panel will display "Wrong Date" flashing for 3 seconds and will reset.





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The time adjustment is done by selecting the "CLOCK SET" feature in the setting menu; you can then enter or change the AM/PM parameters, the hours and minutes.



NOTE

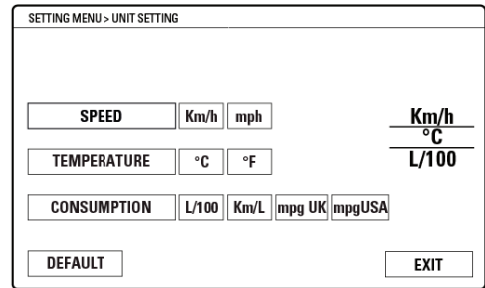
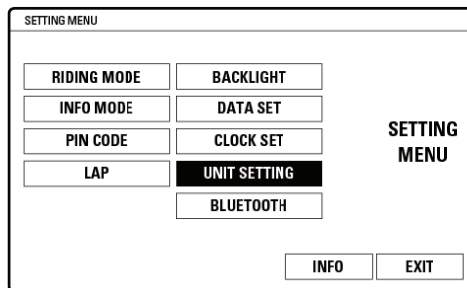
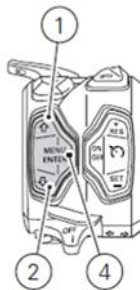
When the vehicle battery or instrument panel is disconnected, the date and time are reset and you need to set them both again.

Checking proper setting of the units according to the specific country version

This feature allows you to select and change the units of measurement displayed on the instrument panel. To perform manual setting you should go into the Setting Menu by pressing **button (1)** or **button (2)** and select the "UNIT SETTING" feature by pressing **button (4)**.

A list of items for which the units of measurement can be set is shown on the left of the instrument panel:

- SPEED
- TEMPERATURE;
- fuel CONSUMPTION;
- reset to automatic settings for a specific country version (DEFAULT).



To exit the Setting menu and return to the previous screen, select EXIT and confirm with button (4).



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Motorcycle ergonomics

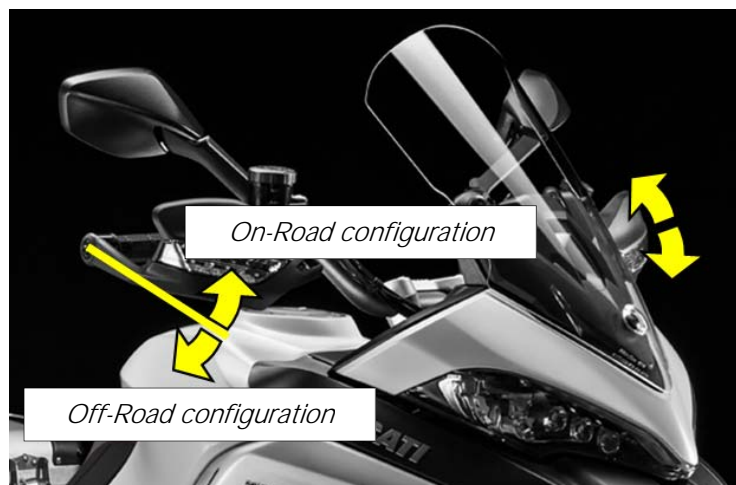
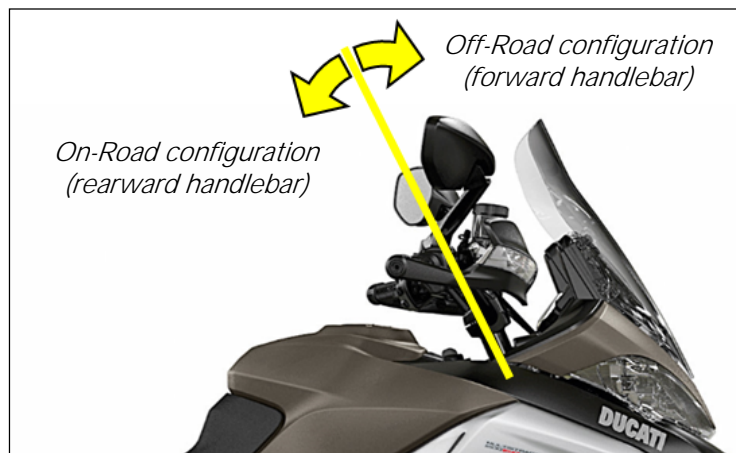
Multistrada 1200 Enduro Model Year 2016 can be customized with 2 different ergonomic configurations for Off-Road and On-Road riding by changing the handlebar and rear brake pedal heights.

• **Handlebar tilt adjustment**

There are 2 possible configurations for handlebar tilt: On-road riding (rearward handlebar) and Off-road riding (forward handlebar).

The bike is delivered in the On-road riding configuration (rearward handlebar).

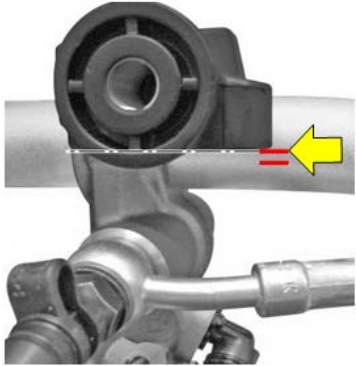
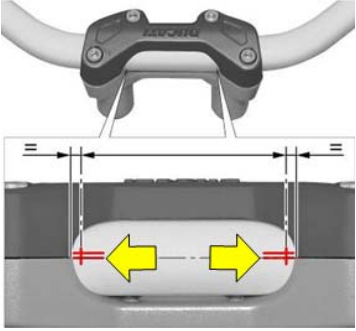
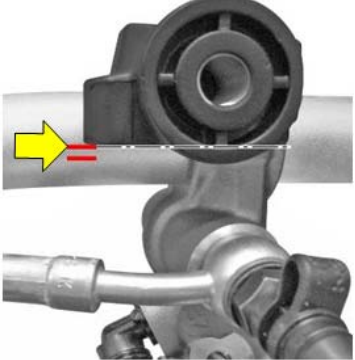
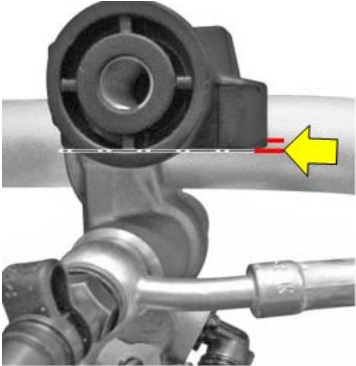
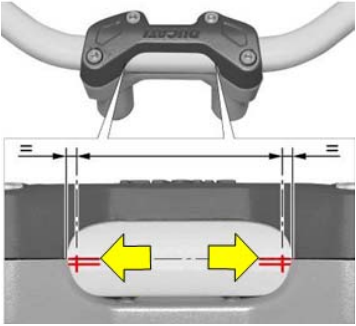
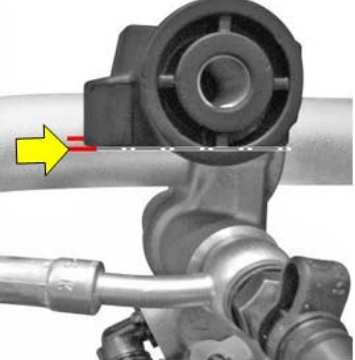
To rotate the handlebar, you should turn the handlebar with respect to the retaining U-bolt and simultaneously reposition the clutch master cylinder and front brake master cylinder controls.





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The handlebar shows all the marks required to perform the correct adjustment.

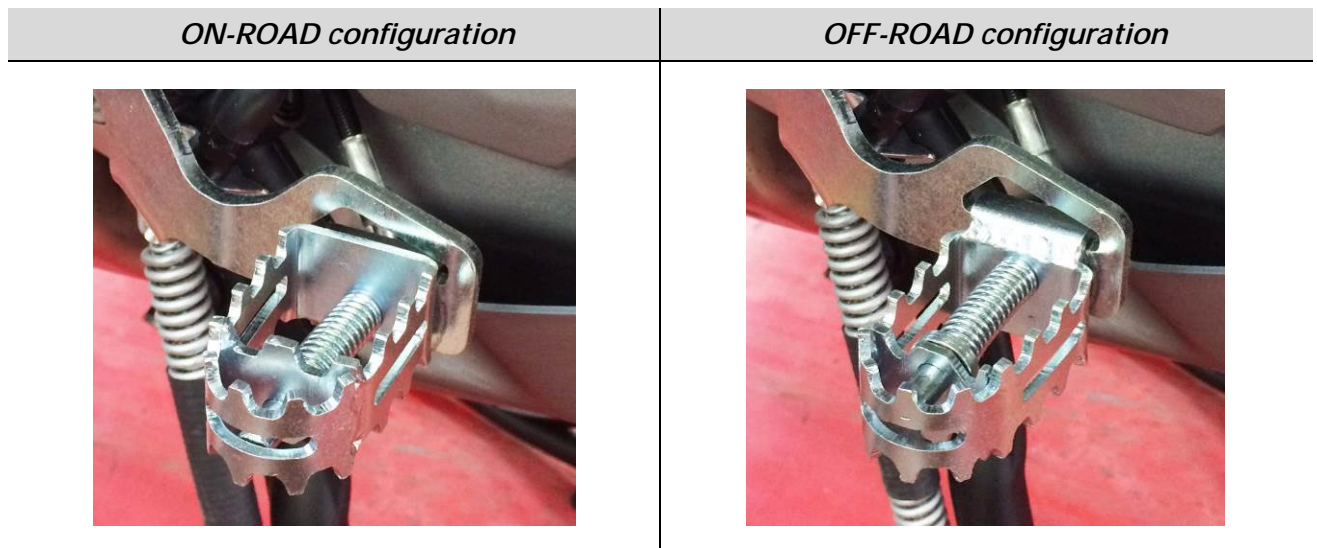
	<i>Front brake master cylinder assy</i>	<i>Handlebar on the U-bolt</i>	<i>Clutch master cylinder assy</i>
<i>ON-ROAD configuration</i>	Align the assembly with the rear reference mark 	Align the U-bolt with the lower reference marks 	Align the assembly with the rear reference mark 
<i>OFF-ROAD configuration</i>	Align the assembly with the front reference mark 	Align the U-bolt with the upper reference marks 	Align the assembly with the front reference mark 



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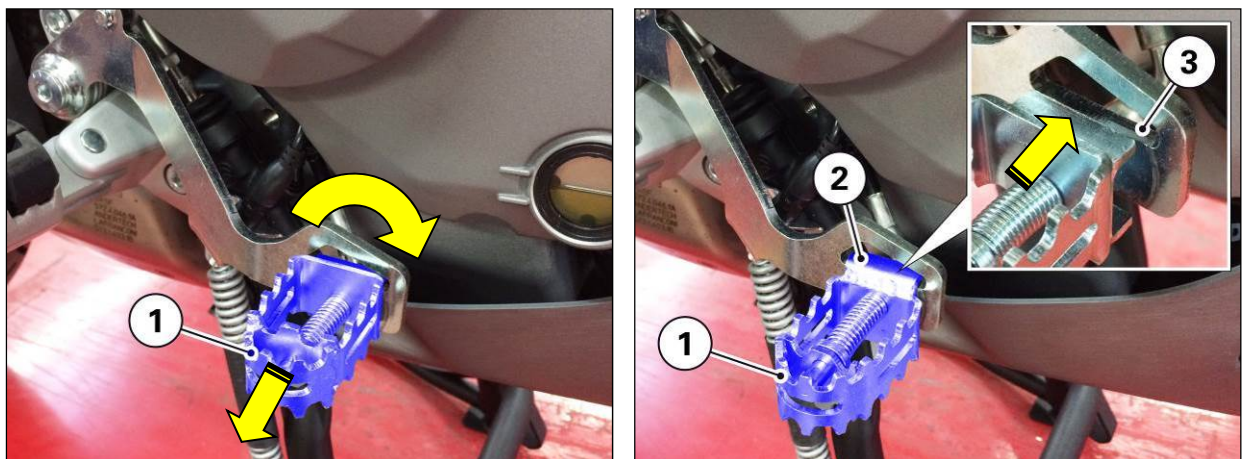
Rear brake pedal adjustment

Multistrada 1200 Enduro allows 2 possible configurations of the rear brake pedal:



To adjust the rear brake pedal follow the procedure below:

- 1) Pull **footpeg (1)** outwards and turn it 180°.
- 2) Release the footpeg making sure that **bracket (2)** is correctly fitted into its **seat (3)** on the rear brake lever.





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Useful information to Customer when delivering bike

Before delivering the bike to the Customer, you need to check all the steps in the "Check List for bike delivery to Customer" attached to Service Bulletin 931-SAT "Introducing Multistrada 1200 Model Year 2015".



VEHICLE DELIVERY TO CUSTOMER - Check List



VHC - Vehicle Hold Control

The VHC is a rider assist system for moving off from a standstill condition. During delivery to Customer, it is important to show the characteristics of this new feature.

To activate the VHC feature, strongly press the front brake lever or rear brake pedal under the following conditions:

- vehicle stopped;
- side stand up;
- ABS system active on any level and without faults;

The correct activation of the system is shown by the relevant light on instrument panel starting to flash when the system is going to release the rear brake calliper thus ceasing to hold the vehicle still: the decrease in pressure will be gradual.



The system turns off automatically after 9 seconds if not used.



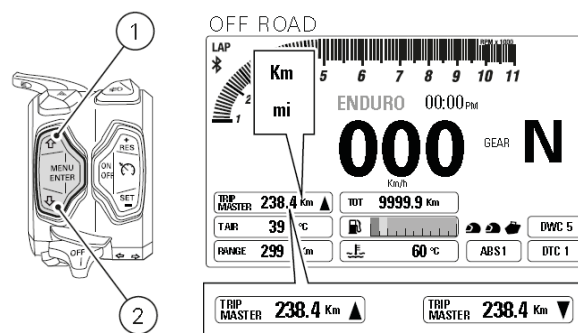
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Trip meter (TRIP MASTER)

The Trip Master (trip meter) counts and displays partial kilometres or miles travelled by the vehicle; the count can be increased and reset and can also be paused or "reversed" (thus decreasing the count).

The Trip Master (trip meter) is only displayed in Off-Road mode.

The instrument panel displays the number with the words TRIP MASTER and an arrow pointing up (when the count is increased) or facing down (when the count is decreased).



You can press **button (1)** and **button (2)** to control the Trip Master feature:

1) by pressing **button (1)**:

- if the number is increasing, the count is stopped (PAUSE) and the number will flash; the count is resumed by pressing button (1) again;
- if the number is decreasing, the count changes and the number increases.

2) by pressing **button (2)**:

- if the number is increasing, the count changes and the number decreases;
- if the number is decreasing, the count is stopped (PAUSE) and the number will flash; the count is resumed by pressing button (2) again.

Show the Customer the correct side panniers and top case assembly/disassembly procedure and the opening and closing system (if any)

For the procedure regarding proper fitting and removal of side panniers and Top case (available as Ducati Performance accessories by Touratech) and opening and closing system, please read the instructions in the Owner's manual, included in the Kit supplied together with the bike or that can be downloaded from Ducati.com website under section Dealers/Service/Maintenance.

8 locks associated to the bike mechanical key are supplied with the bike:

- 6 locks for side panniers by Touratech
- 2 locks for the Top case by Touratech



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WARNING

The maximum weight allowed for the side panniers and Touratech Top case must not exceed 15 kg (33 lb) in total of which:

- 5 kg max (11 lb) for each side pannier;
- 5 kg max (11 lb) for the Top Case.

In addition, the maximum speed allowed with the side panniers, Top case and tank bag fitted to the bike must not exceed 180 km/h (112 mph).

DUCATI

!

I
Durante la marcia tutte le serrature devono essere chiuse. Prima di iniziare la marcia verificare sempre il bloccaggio delle valigie e del topcase sul veicolo. Per il montaggio delle valigie vedere le istruzioni d'uso.

E
During the journey, all locks must be locked. Before each journey, check the lock on the cases and the topcase on the vehicle. Before assembling the cases read the mounting instructions.

F
Durant la conduite, toutes les serrures doivent être verrouillées. Vérifier le verrouillage du coffre et du casier supérieur du véhicule avant tout déplacement. Pour le montage du coffre voir le manuel d'utilisation !

D
Während der Fahrt müssen alle Schlösser verriegelt sein. Vor Fahrtantritt ist die Verriegelung der Koffer und des Topcase am Fahrzeug zu prüfen. Montage der Koffer siehe Bedienungsanleitung.

E
Todos las cerrres deben estar bloqueados durante la marcha. Antes de iniciar cada viaje, compruebe que la maleta y el portaequipajes están bien sujetos al vehículo. Consulte en las instrucciones el montaje de la maleta.

Max load
5 Kg

180
km/h

TOURATECH

Please note that you can also fit side panniers onto Multistrada 1200 Enduro version; the side panniers are available as a Ducati Performance accessory of Multistrada 1200 Model Year 15-16.





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Vehicle scheduled maintenance plan

The maintenance plan described in this document is the same that will be communicated to Customers through all Ducati's means of communication; we trust that you cooperate in complying with indicated times and operations for the various scheduled maintenance service operations.



WARNING

When riding the bike off-road it is necessary to have shorter service intervals compared to those specified.

<i>Type of Scheduled Maintenance</i>	<i>TIME (hours)</i>
OIL SERVICE 1000	1.5
OIL SERVICE / ANNUAL SERVICE	2.4
DESMO SERVICE interventions	6.5

Hereinafter is an indication of execution times associated with the main operations with set time intervals:

<i>INTERVENTION TYPE</i>	<i>TIME (hours)</i>
Change brake and clutch fluid (Every 36 months)	0.6
Change coolant (Every 45,000 km/27,000 mi or 48 months)	0.4 *

* time not to add to Desmo Service operation

The Scheduled Maintenance Check-List is attached to this Technical Bulletin (**Ed.04/16**) and includes all operations required for scheduled maintenance.

Please print a color copy of this form, fill it in thoroughly and turn it in to the Customer (keep a copy attached to work order).

DUCATI SERVICE
Scheduled Maintenance



Maintenance operations for Off-Road use

The motorcycle off-road use (for instance on sand or humid and muddy grounds) can lead to an early wear of components like drive system, braking system, suspension components and non-structural



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components in general. For this reason it is necessary to reduce the maintenance intervals according to the vehicle use

Non-structural components

Following are the main operations to be performed for non-structural components:

LIST OF NON-STRUCTURAL COMPONENTS AND TYPE OF INTERVENTION	
Clean the water radiator and the oil cooler	-
Clean the air filter and replace if necessary	See Sec.04 "Maintenance Operations" of the Workshop Manual
Clean the front and rear brake pads, check their wear and replace them if necessary	See Sec.04 "Maintenance Operations" of the Workshop Manual
Clean, check and lubricate the final drive	See Sec.07 "Chassis" of the Workshop Manual
Check the spoke rims	See paragraph "Checking the spoke rims" on page 28
Check non-structural components tightening	-

Structural components

Besides the cleaning and checking operations of the main non-structural components mentioned above, it is necessary to check also the correct tightening of the structural components such as for example:

LIST OF STRUCTURAL COMPONENTS	Tightening torque
Shock absorber upper retaining screw	<u>60 Nm ± 5%</u>
Shock absorber lower retaining screw	<u>60 Nm ± 5%</u>
Engine-frame to special nut front retaining screw	<u>60 Nm ± 5%</u> + SHELL GADUS S2 V220 AD 2
Screw retaining RH footpeg holder plate to RH rear subframe	<u>42 Nm ± 10%</u> + Loctite 243
Screw retaining LH footpeg holder plate to engine and LH rear subframe	<u>42 Nm ± 10%</u> + Loctite 243
Subframe jointing upper plate retaining screws	<u>25 Nm ± 5%</u> + SHELL GADUS S2 V220 AD 2
Adjuster ring nut	<u>80 Nm ± 5%</u> + Loctite 243
Subframe-frame adjuster special screw fastening	<u>65 Nm ± 10%</u> + Loctite 243
Steering bearing pre-load ring nut	<u>30 Nm ± 5%</u> + AGIP PV2



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NOTE

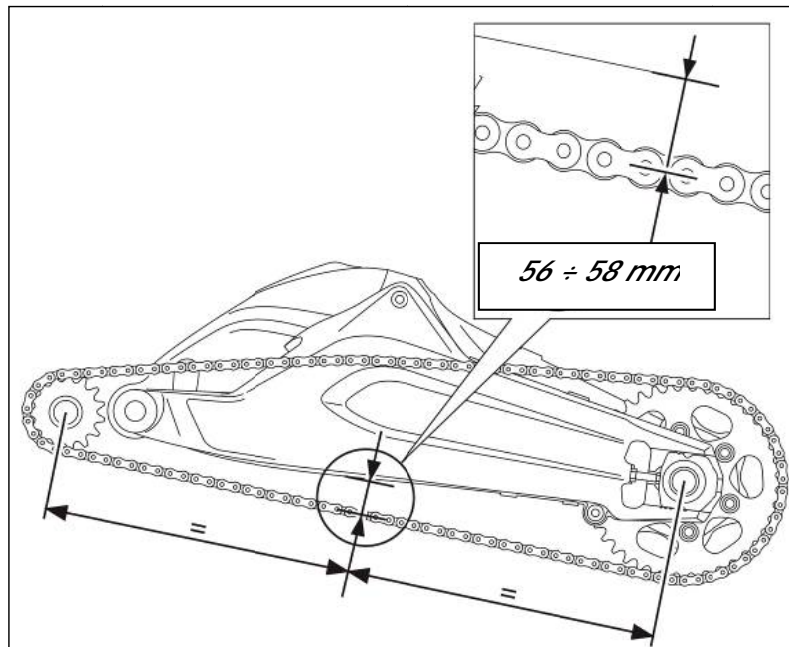
For the correct tightening procedure of the structural components, refer to Sec.07 "Chassis" of the Workshop Manual.

We remind that the list indicated above is not exhaustive.

Useful information for scheduled maintenance

<i>Top-ups</i>	<i>Type</i>	<i>Qty</i>
Engine oil	SHELL - Advance 4T Ultra 15W-50	4.1 cu.dm (liters)
Front fork	SHELL Advance Fork 7.5 or Donax TA	321 ± 5 cc LH leg (active) 757 ± 5 cc RH leg (passive)
Cooling circuit	ENI Agip Permanent Spezial	2.5 cu.dm (liters)

1) Check correct final drive tensioning:



2) Tightening torque values for safety related parts tightening check:

- Front brake caliper screws: 45 Nm ±5% + SHELL GADUS S2 V220 AD 2;
- Front wheel shaft nut: 63 Nm ±5% + SHELL GADUS S2 V220 AD 2;



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- Rear wheel shaft nut (on rear sprocket side and wheel side): 180 Nm \pm 5% + SHELL GADUS S2 V220 AD 2 (apply on thread and nut underhead);
 - Sprocket retaining nut: 186 Nm \pm 5% + SHELL GADUS S2 V220 AD 2;
- 3) Assembly and valve clearance check values. The time indicated includes adjustment of all valves, and the cost includes purchase of 4 closing shims and 4 opening shims, since it is assumed that replaced shims can be reused by dealer:

		<i>Assembly value</i>	<i>Check value</i>
Opening Rocker Arm	Intake	0.13 \pm 0.18 mm	0.10 \pm 0.25 mm
	Exhaust	0.13 \pm 0.18 mm	0.10 \pm 0.25 mm
Closing Rocker Arm	Intake	0.05 \pm 0.10 mm	0.05 \pm 0.15 mm
	Exhaust	0.05 \pm 0.10 mm	0.05 \pm 0.15 mm

- 4) Tire pressure:
 Multistrada 1200 Enduro is equipped with Pirelli SCORPION™ Trail II tires but you can also install M+S (Mud&Snow) tires; Ducati recommends in this case Pirelli SCORPION™ Rally tires of the same size.

<i>Pirelli SCORPION™ Trail II tire pressure</i>		
Front tire pressure – 120/70 ZR19	2.4 bar	2.4 bar (with a passenger and/or bags)
Rear tire pressure – 170/60ZR17	2.5 bar	2.9 bar (with a passenger and/or bags)
<i>Pirelli SCORPION™ Rail tire pressure</i>		
Front tire pressure – 120/70 ZR19	1.6 bar	1.8 bar (with a passenger and/or bags)
Rear tire pressure – 170/60ZR17	1.6 bar	2.2 bar (with a passenger and/or bags)



WARNING

If you use M+S (Mud&Snow) tires, such as Pirelli Scorpion Rally tires recommended by Ducati, you must not exceed the speed limit of 190 km/h (118 mph) specified for those tires.

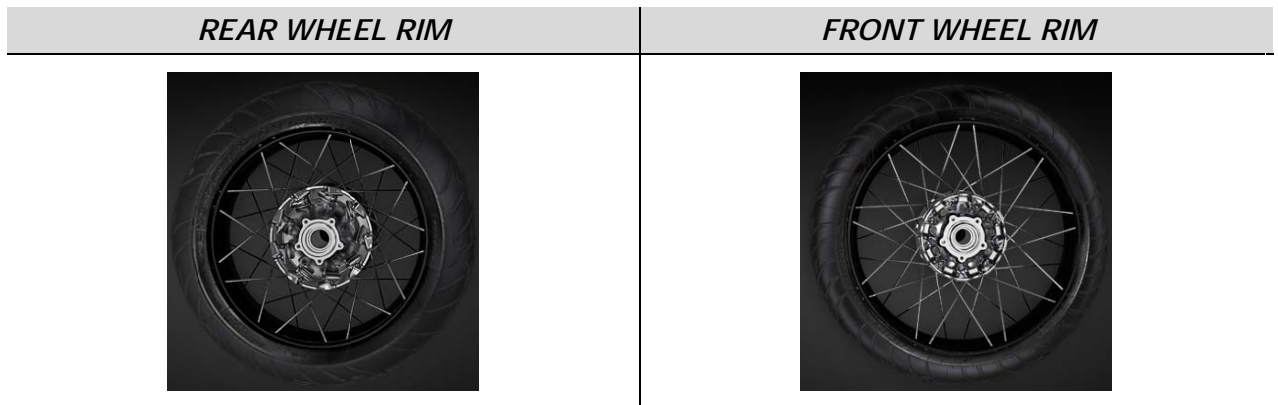




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5) Spoke wheel inspection

Multistrada 1200 Enduro is equipped with light alloy spoke wheels size 3"x19" at the front and 4.50"x17" at the rear.



To ensure vehicle stability and safe road holding, it is necessary to periodically check spokes proper tensioning, according to the intervals specified in the scheduled maintenance chart that we attach to this Service Bulletin.

Failed inspection and/or tension adjustment of the spokes could result in an uneven tensioning and progressive slackening of several spokes.

Spoke tension inspection

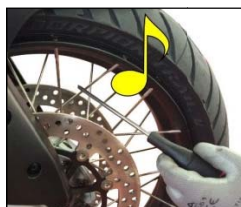
To check proper spoke tensioning, please follow the procedure below:

- 1) Set the vehicle on the center stand so that the wheels are no longer touching the ground and can spin freely.
- 2) Lightly tap every spoke with a screwdriver and check the sound you get.



NOTE

The frequency of this sound will change based on spoke length and diameter.



If sound is even and clear, spoke tension is CORRECT. If sound is a deep tone, spoke tension is NOT CORRECT and you should restore proper tensioning.

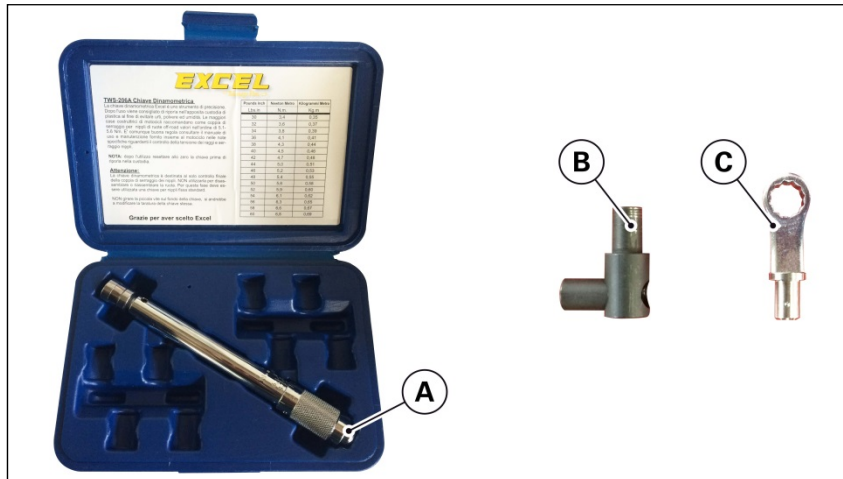


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Spoke tensioning

To properly tension spokes, please follow the procedure below:

- 1) Use the **torque wrench (A)** part no. 887132777 supplied as Ducati Service optional tool (supplier is EXCEL), together with 2 new **inserts (B)** and **(C)** that we are developing (a specific Service Bulletin will be released on the matter).



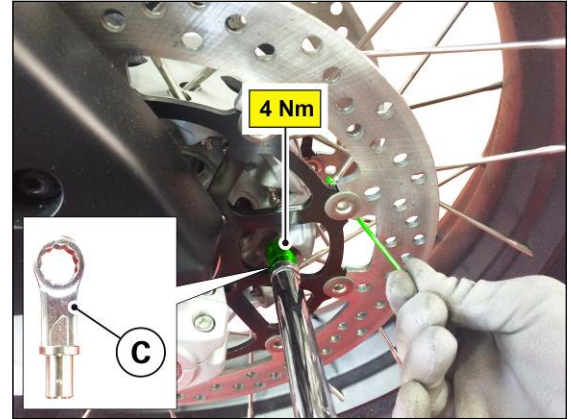
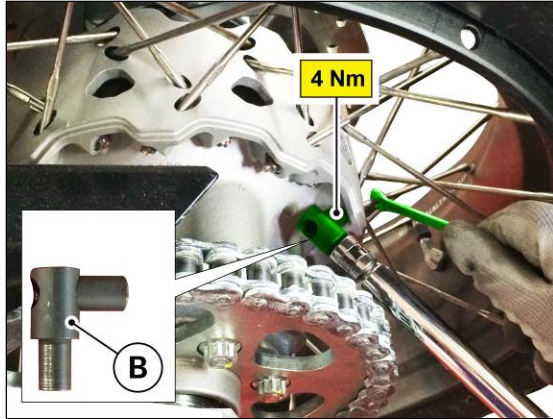
<i>Position</i>	<i>Description</i>	<i>Part no.</i>	<i>Quantity</i>
A	Spoke wheel tightening wrench	887132777	1
B	Spoke inspection insert - rear wheel	-	1
C	Spoke inspection insert - front wheel	-	1

- 2) Tighten spoke nut to **4 Nm** (use a 4 mm wrench to hold).

<i>REAR WHEEL RIM</i>	<i>FRONT WHEEL RIM</i>
<u>Use insert (B)</u>	<u>Use insert (C)</u>



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WARNING

Should you find 3 or more consecutive spokes that are slack, first tension and then check axial and radial clearance of wheel rim since it might be damaged!

Checking axial and radial clearance of spoke wheels

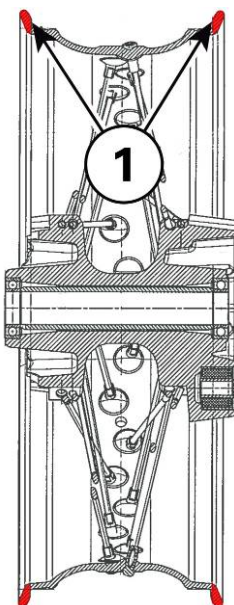
Check axial and radial clearance of spoke wheels as follows:

- 1) Set spoke wheel on centering tool.

Set dial gauge at a right angle to the surface to be measured:

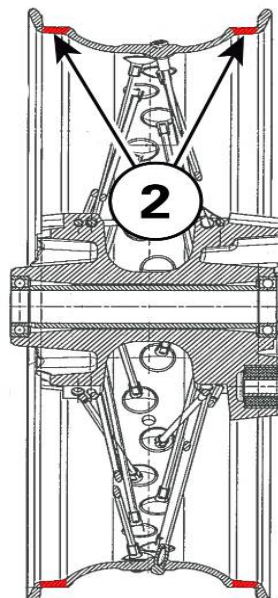
AXIAL CLEARANCE

Use the **internal surfaces (1)** of the rim mating with the tire



RADIAL CLEARANCE

Use the **internal surfaces (2)** of the rim mating with the tire





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2) Reset dial gauge index and spin the wheel to read the axial and radial clearance.



WARNING

Axial and radial clearance values must be \leq 0.8 mm.

6) Service thresholds and instrument panel warning lights:

Also Multistrada 1200 Enduro, like Multistrada 1200 MY15-16, displays Service strategy deadlines with time limit in addition to those related to the distance covered; therefore the instrument panel displays the Annual Service deadline through the dedicated SERVICE DATE warning light.

Please be reminded that Annual Service and Oil Service require the same maintenance operations and must be carried out respectively upon reaching 12 months and 15,000km (9,000mi) according to the first deadline reached; then they must be carried out every 12 months or 15,000km (9,000mi).

The date used to start the count for calculating Annual Service threshold is entered in the instrument panel via the DDS 2.0 when switching off the Oil Service 1000 warning.

Desmo Service operations that do not include the operations already scheduled in Annual Service/Oil Service deadlines, must be carried out at 30,000km (18,000mi) and then every 30,000km (18,000mi).

Desmo Service and Oil Service/Annual Service are completely independent.

DDS 2.0 diagnosis instrument includes the "Maintenance" dedicated section inside Global Scan.



If there are no operations to carry out the icon is on a black background, but it can be accessed in any case to consult Service deadlines.



The icon flashes on a red background if:

- the date stored in the instrument panel differs from the one set on the PC;
- the deadline for 1 of the 3 service coupons Annual-Oil-Desmo Service is exceeded.



The icon flashes on a yellow background if at least one of the thresholds for early switching off has been reached, i.e.:

- 90 days before the scheduled deadline of Annual Service;
- 4,000 km before mileage-related Oil Service deadline;
- 4,000 km before the scheduled deadline of Desmo Service.



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Please be reminded that the technical information contained in this document may undergo changes. We recommend always checking such information against the data provided in the workshop manual and dedicated technical bulletins.

We thank you in advance for your attention and cooperation.

Ducati North America
Service Department