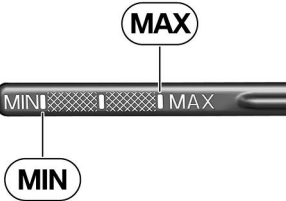

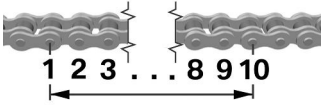


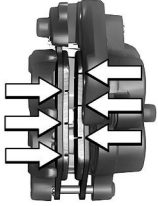


Service data 0B15 - F 800 GS Adventure			
Designation	Precondition	Value	Valid
11 - Engine			
Running-in speed		<5000 min ⁻¹	
Engine oil, capacity	with filter change	approx. 2.9 l	
	Fluids and lubricants		
	Viscosity class		
Engine oil, quantity for topping up	Difference between MIN and MAX	max 0.4 l	
	Fluids and lubricants		
	Viscosity class		
additional quantity of engine oil after removal of swing-arm shaft cover		0.3 l	
	Fluids and lubricants		
	Viscosity class		
Engine oil, specified level		Between MIN and MAX marks	
			
1134 - Valves with springs			
Inlet valve clearance	Engine cold max 35 °C	0.18...0.26 mm	
Exhaust valve clearance	Engine cold max 35 °C	0.27...0.35 mm	
1212 - Ignition wiring, spark plugs			
Spark plugs, manufacturer and designation		NGK DCPR 8 E	
13 - Fuel preparation and control			
Recommended fuel grade		Super unleaded max. 10 % ethanol, E10 95 ROZ/RON 89 AKI	
16 - Fuel supply			
Usable fuel capacity		approx. 24 l	
Reserve fuel		min 2.7 l	
17 - Cooling			
Cooling system test pressure	Test pressure must remain unchanged: 5 min	1.5 bar	
Coolant, specified level		between MIN and MAX marks on the expansion tank	

	General consumable (Antifreeze and corrosion inhibitor)		
31 - Front axle, front-wheel steering			
Fork oil, capacity per fork leg		610 ml	
Telescopic fork oil (Telescopic fork oil SAE 7.5)			
3142 - Telescopic forks			
Projection of fork tube in fork bridge, top with cap		4.0 mm	
3273 - Bowden cables			
Setting of throttle-cable play	at outermost diameter of rubber grip, engine cold max 35 °C	1...2 mm	
3383 - Traction drive, chain, belt			
Permissible chain length 	measured centre to centre over 10 pins, chain pulled taut	max 144.30 mm	
Chain deflection	Motorcycle with no weight applied, supported on its side stand	35...45 mm	
34 - Brakes			
Brake fluid level, front (visual inspection) 		It is impermissible for the brake fluid level to drop below the MIN mark.	
Hydraulic fluid (Brake fluid, DOT4)			
Brake fluid level, rear (visual inspection) 		It is impermissible for the brake fluid level to drop below the MIN mark.	
Hydraulic fluid (Brake fluid, DOT4)			

3411 - Front brake

Brake disc thickness, front	When new	5.0 mm	
	Wear limit	min 4.5 mm	
Brake-pad wear limit, front	 <p>Friction pad only, without backing plate. The wear indicators (grooves) must be clearly visible.</p>	min 1.0 mm	
Brake disc lateral runout, front		At circumference	max 0.15 mm

3421 - Rear brake

Brake-pad wear limit, rear	Friction pad only, without backing plate.	min 1.0 mm	
Brake disc thickness, rear	When new	5.0 mm	
	Wear limit	min 4.5 mm	
Brake disc lateral runout, rear	At circumference	max 0.15 mm	

3630 - Motorcycle wheels

Permissible front-wheel imbalance		max 5 g	
Permissible rear-wheel imbalance		max 45 g	
Balancing weight for front wheel Weight must be divided equally across both sides and weights attached to rim on left and right.		max 80 g	
Balancing weight for rear wheel Weight must be divided equally across both sides and weights attached to rim on left and right.		max 80 g	

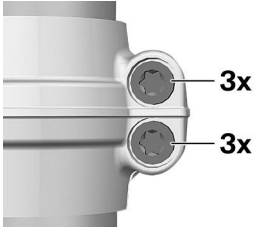
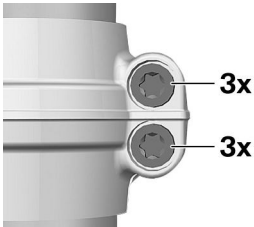
3631 - Wheels with bearings

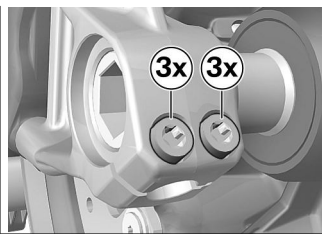
Vertical runout, front wheel		max 1.7 mm	
Lateral runout, front wheel		max 1.7 mm	
Vertical runout, rear wheel		max 1.7 mm	
Lateral runout, rear wheel		max 1.7 mm	

3632 - Tyres

Tyre pressure, front	one-up, tyre cold	2.2 bar	
	two-up and/or with luggage, tyre cold	2.5 bar	
Tyre pressure, rear	one-up, tyre cold	2.5 bar	
	two-up and/or with luggage, tyre cold	2.9 bar	
Tyre tread depth, front and rear	Wear limit, for Germany only	min 1.6 mm	
	Wear limit, outside Germany	Country-specific legal requirements	

Wheel valve test pressure		4 bar	
11 11 - Engine block			
Socket-head screw (hole for TDC locating pin)			
M8 x 16		25 Nm	
11 12 - Cylinder head with cover			
Cylinder head cover to cylinder head			
M6		tighten in diagonally opposite sequence	
		10 Nm	
Camshaft bearing cap to cylinder head			
M6		Tightening sequence: see Repair Manual	
		1st tightening torque, tightened uniformly until hand-tight	
		2nd tightening torque, 10 Nm	
11 13 - Oil sump			
Oil drain plug			
M24 x 2		40 Nm	
Engine-guard adapter to oil pan			
Silentblock, M8		19 Nm	
Engine guard to engine-guard adapter			
M8		8 Nm	
11 15 - Crankcase breather			
Vent connector to cylinder head cover			
M6 x 16, use thread-locking compound for repair Thread-locking compound (Loctite 243, Medium strength)		10 Nm	
11 31 - Camshaft			
Chain tensioner to cylinder head			
M18 x 1.5		40 Nm	
11 42 - Oil filter and lines			
Oil filter to crankcase		11 Nm	
12 12 - Ignition wiring, spark plugs			
Spark plugs			
M12 x 1.25		20 Nm	
13 71 - Intake air silencer			
Intake air silencer to frame			

M6 x 25	6 Nm	
23 00 - Gearbox		
Pinion to gearbox output shaft		
M10 x 35 Thread-locking compound (Loctite 243, Medium strength)	50 Nm	
31 42 - Telescopic forks		
Fork leg to top fork bridge		
		
M8 x 25	Tighten screws six times in alternate sequence	
	19 Nm	
Fork leg to bottom fork bridge		
		
M8 x 25	Tighten screws six times in alternate sequence	
	19 Nm	
Locknut to cover		
M8	15 Nm	
Fork bridge, top, to adjusting screw (steering-head adjustment)		
M8 x 40	20 Nm	
Fork cap to fixed fork tube		
	40 Nm	
Damper unit to slider tube		
M10 x 25, Replace screw	25 Nm	
Adjusting screw to steering-head bearing		
M18 x 1	Tightening torque, 25 Nm	
	Swing the forks 3x to left/right through full arc of travel	
	Loosen, 60°	
	Tightening torque, 11 Nm	
Clamp of quick-release axle		



M8 x 25	Tighten screws six times in alternate sequence	
	19 Nm	

32 71 - Motorcycle handlebars

Handlebar weight to handlebar

M8 x 45 Thread-locking compound (Micro-encapsulated) or, Thread-locking compound (Loctite 243, Medium strength)	23 Nm	
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Handlebar clamping block, top, to handlebar clamping block, bottom (handlebar clamp)

M8 x 30	in the forward direction of travel, tighten until seated	
	19 Nm	

33 35 - Rear wheel swinging arm with pivot mount, link

Locknut of the final-drive chain tensioning screw

M8	19 Nm	
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33 84 - Traction drive, chainwheel, belt wheel

Chain sprocket to chain-sprocket carrier

M10, Replace the nuts and screws Thread-locking compound (mechanical)	Tightening torque, 10 Nm	
	Additional angle of rotation, 90°	

34 11 - Front brake

Brake disc to front wheel

M6 x 18, Replace screw Thread-locking compound (Micro-encapsulated)	8 Nm	
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Brake caliper on telescopic fork

M10 x 40	38 Nm	
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Bleed screw, brake caliper, front

M10 x 1 - 4.9	14 Nm	
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34 21 - Rear brake

Brake disc to rear wheel

M8 x 15.5, Replace screw Thread-locking compound (Micro-encapsulated)	tighten by stages in diagonally opposite sequence	
	30 Nm	

Rear brake caliper bleed screw		
M10 x 1 - 4.9	14 Nm	
34 32 - Brake lines		
Clip with brake hose to fork leg		
M6 x 16	8 Nm	
34 52 - Electronic components		
Wheel-speed sensor, front, to fork leg		
M6 x 16	8 Nm	
Wheel-speed sensor, rear, to brake caliper		
M6 x 16	8 Nm	
36 31 - Wheels with bearings		
Axle screw in quick-release axle, front		
M14 x 1.5	30 Nm	
Rear quick-release axle in swinging arm		
M16 x 1.5	100 Nm	
Nipple on spoke		
M4.5 x 0.75	3.5 Nm	
46 53 - Side stand		
Side stand to pivot mount		
M10 x 1 Thread-locking compound (Micro-encapsulated) or, Thread-locking compound (Loctite 243, Medium strength)	40 Nm	
Side-stand switch to side-stand screw		
M6, Replace nut Thread-locking compound (mechanical)	6 Nm	
46 61 - Front-wheel cover		
Front-wheel cover to telescopic fork		
M6 x 16	4 Nm	
Cover to fork bridge, bottom		
M6 x 16	4 Nm	
46 63 - Motorcycle fairing, windscreen		
Trim panels		
M5	2.5 Nm	
Windscreen to holder		
M5 x 25	2.5 Nm	

Centre trim panel to side panel		
M5 x 25	2.5 Nm	
51 16 - Mirrors, covers, ashtrays, stowage compartments		
Locknut (mirror) to clamping piece		
M14 x 1 General consumable (Multi-wax spray)	20 Nm	
Clamping piece (mirror) to clamping block		
M10	30 Nm	
52 53 - Seat		
Seat retainer bridge to rubber mount		
M5	2.5 Nm	
61 21 - Battery with holder		
Wiring harness to battery		
M6	5 Nm	