Tightening torques 0480 - R 1200 GS	/Adventure
Camhead Torques	Value
Contents:	
11: Engine	
12: Engine Electrical	
13: Fuel Preparation	
16: Fuel Supply	
17: Cooling	
18: Exhaust	
21: Clutch	
23: Gearbox	
31: Front Axle, Front Wheel Steering	
32: Steering	
33: Rear axle, rear-wheel drive	
34: Brakes	
35: Foot Operation	
36: Wheels and Tires	
46: Frame and Mounted Components	
51: Trim Panels	
52: Seats	
61: General Vehicle Electrics	
62: Instruments	
63: Lights	
71: Parts and Accessories	
77: Optional Accessories	
11 - Engine	
11 11 - Engine block	
Bracket, engine guard to crankcase	
M10 x 90	40 Nm
Engine block, left half (preassembly)	1011111
M10 x 110 - 10.9	Tightening torque, 25 Nm
	Additional angle of rotation, 90°
M8 x 60, bolted with sealing ring	19 Nm
Engine block, right half (preassembly)	25 1111
M10 x 130	Tightening torque, 25 Nm
	Additional angle of rotation, 90°
M10 x 110	Tightening torque, 25 Nm
THICK I I I	Additional angle of rotation, 90°
M8 x 80	19 Nm
M8 x 35	19 Nm
Crash bar mount to crankcase	13 14111
Rubber mount, M8	19 Nm
Oil drain plug to crankcase	13 1111
M16 x 1.5	32 Nm
Engine block, left	
M10 x 110 - 10.9	Tightening torque, 25 Nm
MILO X 110 10.3	Additional angle of rotation, 90°
M8 x 60, bolted with sealing ring	19 Nm
M6 x 50	8 Nm
M6 x 35	8 Nm
M6 x 25	8 Nm
Engine guard to bracket	
back, to rubber buffer, Nut M8	19 Nm
front left, M6 x 30	10 Nm
front right, M6 x 20	10 Nm
Engine block, right	TO MILI
M10 x 130	Tightening torque 25 Nm
IMITO Y TOO	Tightening torque, 25 Nm Additional angle of rotation, 90°
M10 v 110	
M10 x 110	Tightening torque, 25 Nm

Tighterming to react of 100	R 1200 GS/Adventure
Camhead Torques	Value
•	Additional angle of rotation, 90°
M8 x 80	19 Nm
M8 x 35	19 Nm
M6 x 50	8 Nm
M6 x 35	8 Nm
Cylinder to crankcase	OTTI
M6 x 35	8 Nm
11 12 - Cylinder head with cover	OWN
Cylinder head cover to cylinder head	
M6	10 Nm
Cylinder head, left, to cylinder	TO MIII
Cylinder flead, left, to cylinder	
Nut, tie bolt, M10	tighten by stages in diagonally opposite sequence
	Tightening torque, 20 Nm
	1st additional angle of rotation, 75°
	2nd additional angle of rotation, 75°
M8 x 125	20 Nm
M6 x 30	9 Nm
Cylinder head, right, to cylinder	
Nut, tie bolt, M10	tighten by stages in diagonally opposite sequence
Nat, he bott, wito	Tightening torque, 20 Nm
	1st additional angle of rotation, 75°
	2nd additional angle of rotation, 75°
NAO 425	
M8 x 125	20 Nm
M6 x 50	9 Nm
M6 x 30	9 Nm
11 14 - Housing cover	
Belt cover to engine	
M5 x 16	5 Nm
Belt cover to belt cover, rear	
TS5 x 20	3 Nm
Belt cover, rear, to alternator	
M5 x 16	5 Nm
Timing case cover to crankcase	
M6 x 30	9 Nm
Clutch cover to engine	
M6 x 16	8 Nm
11 15 - Crankcase breather	
Breather to cylinder head	
M6 x 16, Replace screw	8 Nm
Thread-locking compound (Micro-encapsulated)	
Union, breather, to cylinder head	
M6 x 16	8 Nm
11 21 - Crankshaft with bearings	
Belt pulley to crankshaft	
M22 x 1.5	1st tightening torque, 40 Nm
INDEX A SIGNATURE OF THE PROPERTY OF THE PROPE	2nd tightening torque, 140 Nm
11 24 - Conrod with bearings	Zina dignitening torque, 140 Mill
Threaded fastener, conrod bearing	
	destinistantes and 5 No.
Neck-down screw, M10 x 1, Replace screw	1st tightening torque, 5 Nm
Install with threads and underside of head lightly oiled	2nd tightening torque, 20 Nm
	Additional angle of rotation, 105°
11 27 - Balancing shaft	
Compensating weight to balancing shaft	
Neck-down screw, M8 x 70 - 10.9, Replace screw	Tightening torque, 10 Nm
	Additional angle of rotation, 90°

Tightening torques 0480 -	R 1200 GS/Adventure
Camhead Torques	Value
·	value
Gear wheel to balancing shaft	75 N
M12 x 1.5	75 Nm
11 31 - Camshaft	
Sprocket to auxiliary shaft M5 x 16 - 10.9	O Nico
Timing chain rail to cylinder/crankcase	8 Nm
M10	18 Nm
with sealing ring	18 NIII
Timing-chain rail to timing-gear carrier	
M6	8 Nm
Jump stop to timing-gear carrier	O INIII
M6 x 12	10 Nm
M6 x 72	
Chain sprocket to crankshaft	10 Nm
	O Nico
M6 x 16 Campbaft carpoket to campbaft	8 Nm
Camshaft sprocket to camshaft M10 x 25 x 1.25 - 10.9	GE Nm
	65 Nm
Bearing point for chain tensioner to crankcase	O Mass
M6 x 25	8 Nm
Chain tensioner to cylinder	1
M18 x 1,5	45 Nm
Oil the threads	
11 33 - Rocker/follower with bearing	
Timing-gear carrier to cylinder head	
M6 x 72	in diagonally opposite sequence
	10 Nm
Support element to timing-gear carrier	
M6 x 20, Replace screw	8 Nm
Thread-locking compound (Micro-encapsulated)	
Top section of timing-gear carrier to bottom section	
M6 x 40	10 Nm
11 40 - Oil supply	
Cooling oil line to crankcase (inside engine)	
Banjo bolt, M14 x 1.5	25 Nm
Cooling oil line to crankcase (inside engine)	
M6 x 16	8 Nm
11 41 - Oil pump with strainer and drive	
Oil pump to crankcase	
M6 x 40, Replace screws	Tightening torque, 4 Nm
	Additional angle of rotation, 90°
M6 x 45, Replace screws	Tightening torque, 4 Nm
	Additional angle of rotation, 90°
Oil-intake adapter in crankcase	
M6 x 25	8 Nm
Threaded plug in crankcase (oil pressure relief valve)	
M20 x 1.5	42 Nm
11 42 - Oil filter and lines	
Oil filter to crankcase	
Lubricate sealing ring with engine oil	11 Nm
11 61 - Intake elbow	
Air intake to cylinder head	
M6 x 20	8 Nm
12 - Engine electrical system	Value
12 12 - Ignition wiring, spark plugs	
Spark plug to cylinder head	
M10 x 1	12 Nm
12 13 - Ignition coil	

Tightening torques 0480 - R 1200	GS/Adventure
Camhead Torques	Value
Spark plug coil cover to retaining plate/retaining plate to cylinder head	Value
M6 x 12	8 Nm
12 31 - Alternator with drive and fasteners	O IVIII
Alternator to crankcase	
M8 x 25	18 Nm
Wiring harness to alternator	101111
M6, Replace nut	6 Nm
Thread-locking compound (mechanical)	
12 41 - Starter with fastener	
Starter with gearing to engine	
M8 x 60	19 Nm
Wiring harness to starter	
M8	10 Nm
12 61 - Oil pressure, oil temperature, oil-level indicators	
Oil-pressure switch to crankcase	
M12 x 1.5	30 Nm
Oil-temperature sensor to crankcase	
M14 x 1.5	16 Nm
12 72 - Transmitter for control unit	
Crankshaft sensor to gearcase cover	
M6 x 16	8 Nm
Knock sensor to cylinder	
M8 x 30	19 Nm
Camshaft sensor to cylinder head	
M6 x 16	8 Nm
Temperature sensor in cylinder head, outside	
M10 x 1	10 Nm
13 - Fuel preparation and control	Value
13 53 - Injection nozzles and lines	
Holder for injection nozzle to throttle-valve stub	
M5 x 16	5 Nm
13 71 - Intake air silencer	
Intake air silencer to rear frame	
M6 x 8	8 Nm
16 - Fuel supply	Value
16 11 - Fuel tank with filler neck	
Fuel tank with bracket to front frame	
M8 x 40	19 Nm
Filler cap to fuel filler neck	
M5 x 16	2.4 Nm
Fuel-tank mount to fairing bracket	
M8 x 20	19 Nm
Fuel filler neck to fuel tank	
M5 x 20	2.4 Nm
16 14 - Delivery, preparation and measurement, control unit, fuel pump	
Fuel pump to fuel tank	
Union nut	35 Nm
17 - Cooling	Value
17 21 - Oil cooler	
Oil cooler to fairing bracket	
M6 x 30	8 Nm
17 22 - Oil cooler lines	S
Oil cooler line, flow line, to crankcase	
M6 x 16	8 Nm
Oil cooler line, return line, to crankcase	
Banjo bolt, M16 x 1.5	35 Nm
- J 9 ··· ·	

Tightening torques 0480 - R 1200 GS	/Adventure
Camhead Torques	Value
Oil cooler line, return line, to front frame	Farac
M6 x 12	8 Nm
Oil cooler line to fairing bracket	O IVIII
M6 x 12	4.6 Nm
	Value
18 - Exhaust system	Value
18 11 - Exhaust pipe	
Manifold to cylinder head M8	21 Nm
	21 Nm
Bracket, manifold to gearbox M6 x 38	O Nico
18 12 - Silencer	9 Nm
Silencer to rear frame	
M8 x 45	19 Nm
Clamp to silencer and exhaust manifold	13 MIII
M8 x 40 - 10.9	28 Nm
18 30 - Exhaust pipe with catalytic converter or complete system	28 NIII
Oxygen sensor to exhaust header	
M18 x 1.5	45 Nm
Lubricate thread, Installation tool (Optimoly TA)	45 WIII
Clamp to manifold, rear	
M6 x 25	8 Nm
Clamp to manifold, rear	O WITI
M6 x 25	8 Nm
Cover to exhaust-flow control valve	O WITI
M5 x 10, Replace screw	5 Nm
Thread-locking compound (Micro-encapsulated)	3 MIII
Servomotor of exhaust-flow control valve to rear frame	
M6 x 20	8 Nm
Bowden cable to exhaust-flow control valve	O WITI
Locknut, M6	5 Nm
21 - Clutch	Value
	Value
21 21 - Clutch with driver plate	
Flywheel to crankshaft	Title day and AON a
M11 x 1.5 - 12.9, Replace screw	Tightening torque, 40 Nm
Screw oiled	Additional angle of rotation, 40°
Clutch housing cover to clutch housing	Alabaan in diamandh, annaita annan
M6 x 20 - 10.9	tighten in diagonally opposite sequence 12 Nm
21 52 - Clutch actuation (hydraulics)	12 Nm
Clutch slave cylinder to gearbox	
M6 x 18	8 Nm
Clutch line to clutch lever fitting	8 MIII
Banjo bolt, M10 x 1	10 Nm
Clutch pipe to slave cylinder	18 Nm
Banjo bolt with bleeder, M10 x 1	18 Nm
Bleed screw to banjo bolt	5 Nm
23 - Gearbox	Value
Gearbox oil filler plug	100 11
M14 x 1.5	30 Nm
Gearbox oil drain plug	20 N
M18 x 1.5	30 Nm
23 11 - Housing with cover	
Gearbox to engine block	40 Nov.
M8 x 35	19 Nm
M8 x 50	19 Nm
M8 x 75	19 Nm

Camhead Torques	Tightening torques 0480 - R 1200	GS/Adventure
Gearbox cover to gearbox housing		
MS + 38 314 - Electrical components Gearbox potentiometer to gearbox MS + 16 23 - Internal gearbift components Cocking lever on gearbox cower Fibt headed screw, M6 23 - Internal gearbift components Gearbox his components Gearbift lever to intermediate shaft M6 x + 25 Gearbift lever to intermediate shaft M6 x + 25 Gearbift lever to intermediate shaft M6 x + 25 B Nm Sector lever to selector shaft M8 x + 16 M8	·	Value
23.14 - Electrical components Gearbow potentionizet to gearbox MS x 16 23.1 - Internal gearshift components Locking lever on gearbox cover Flat headed screw, M6 24.1 - External gearshift components Gearshift lever to intermediate shaft 8 Nm 8 x 15 Selector lever to selector shaft 8 Nm 8 x 25 8 Nm 8 Nm 8 x 16 Lockinut, ball scoket on selector shaft 8 Nm 8 x 16 Lockinut, ball scoket on selector rod 10 Lockinut, ball scoket on selector rod 10 Lockinut, ball scoket on selector rod 11 Lockinut, ball scoket on selector rod 12 Lockinut, ball scoket on selector rod 13 Lockinut, ball scoket on selector rod 14 Lockinut, ball scoket on selector rod 15 Lockinut, ball scoket on selector rod 16 Lockinut, ball scoket on selector rod 17 Lockinut, ball scoket on selector rod 18 Lockinut, ball scoket on selector rod 19 Lockinut, ball scoket on selector rod 10 Lockinut, ball scoket on selector rod 11 Lockinut, ball scoket on selector rod 12 Lockinut, ball scoket on selector rod 13 Lockinut, ball scoket on selector rod 14 Lockinut, ball scoket on selector rod 15 Lockinut, ball scoket on selector rod 16 Lockinut, ball scoket on selector rod 17 Lockinut, ball scoket on selector rod 18 Lockinut, ball scoket on selector rod 19 Lockinut, ball scoket on selector rod 19 Lockinut, ball scoket on selector rod 10 Lockinut, ball scoket rod 10 Lockinut, ball scoket rod 11 Lockinut, ball scoket rod 12 Lockinut, ball scoket rod 13 Lockinut, ball scoket rod 14 Lockinut, ball scoket rod 15 Lockinut, ball scoket rod 16 Lockinut, ball scoket rod 17 Lockinut, ball scoket rod 18 Lockinut, ball scoket rod 18 Lockinut, ball scoket rod 19 Lockinut, ball scoket rod 10 Lockinut, ball scoket rod 10 Lockinut, ball scoket rod 10		10 Nm
Gearbox potentiometer to gearbox MS × 16		10 NIII
MS x 16 23 11 - Internal gearshift components Locking lever on gearbox cover Flat-hearded szew, MS 23 41 - Staternal gearshift components Gearshift lever to intermediate shaft 8 Nm 23 41 - Staternal gearshift components Gearshift lever to intermediate shaft 8 Nm 8 Nm 8 Nm 8 Nm 8 Nm 9 Ege to gearshift lever 9 Nm 8 Nm 9 Ege to gearshift lever 9 Nm 8 Nm 8 Nm 9 Syring and to selector rod 10 Nm 8 Nm 9		
23 31 - Internal gearshit components		5 Nm
Locking lever on gearbox cover Same Sam		3 MIII
Flat-headed screw, M6 23 41 - External gearshift components Gearshift lever to intermediate shaft M6 x 25 Selector lever to selector shaft M6 x 25 Selector lever to selector schaft M6 x 25 Selector lever to selector rod Nat M6 Selector lever to selector rod Nat M6 Sall end to selector lever Ball end to selector lever Ball end to selector lever Ball end to intermediate shaft Ball end M8 Sall		
23.41 - External gearshift components		8 Nm
Gearshift lever to intermediate shaft		OWN
Mes x 25 Selector lever to selector shaft Selector lever to selector shaft Me x 25 8 Nm Peg to gearshift lever Reg		
Selector lever to selector shaft M6 x 25 8 Nm M6 x 16 8 Nm Locknut, ball socket on selector rod Nut M6 Sall end to selector lever Sall end to selector lever Sall end to selector lever Sall end to intermediate shaft Sall end to intermediate shaft Sall end M8 31 - Front axle, front-wheel steering 31 42 - Telescopic forks Clamping strew (quick-release axle) in slider tube M8 x 35 19 Nm Spring strut to front frame M12 x 20 Tightening torque, 45 Nm Additional torque, 73 Nm Spring strut to front frame Hex nut, M10 x 1.25 Thread-locking compound (Loctite 243, Medium strength) Sealing strew in fork plug M4 x 8, Replace O-ring Spring strut, front, to leading link M10 x 50 x 1.25 - 1.09, Replace screw, lubricate head M14 x 1.5, Replace out Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M14 x 1.5, Replace unt Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M14 x 1.5, Replace Screw M3 x 1.5 Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M14 x 1.5, Replace screw M3 x 1.5 Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M3 x 1.5 Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M3 x 1.5 Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M3 x 1.5 Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M3 x 1.5 Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M3 x 2.5 M3 Nm Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M3 x 2.5 M3 Nm Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M3 x 2.5 M3 Nm Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M3 x 2.5 M3 x Mm Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M3 x 2.5 M3 x Mm Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M3 x 2.5 M3 x Mm M3 x Mm M4 x 2.5 M5 x Mm M5 x Mm M6 x M3 x Mm M7 x Mm M7 x Mm M8		8 Nm
M6 x 25 Peg to gearshift lever M6 x 16 No x 16		OWN
Peg to gearshift lever M6 x 16 M6 x 16 M5 x 16		8 Nm
Miss 16		
Locknut, ball socket on selector rod Nut M6 Nut M6 3. 7.5 Nm Ball end to selector lever Ball end to selector lever Ball end to intermediate shaft Ball end to engine Walue 19 Nm 10 Nm 11 Nm 11 Nm 12 Nm 13 Nm 13 Nm 14 X 1.5, Replace nut 130 Nm 11 Nm 11 Nm 11 Nm 12 Nm 130 Nm 11 Nm 11 Nm 11 Nm 12 Nm 12 Nm 130 Nm 11 Nm 11 Nm 11 Nm 12 Nm 12 Nm 130 Nm 11 Nm 11 Nm 11 Nm 12 Nm 12 Nm 130 Nm 11 N		8 Nm
Nut M6		
Ball end to selector lever Ball end to Intermediate shaft Ball		7.5 Nm
Ball end M8 Ball end to intermediate shaft Ball end M8 31 - Front axle, front-wheel steering 32 - Steering 31 - Front axle, front-wheel steering 32 - Steering 32 - Nont-wheel steering 32 - Nont-wheel steering 32 - Steering 33 - Steering 34 - Steering 35 - Steering 35 - Steering 36 - Steering 36 - Steering 37 - Steering 37 - Stee		
Ball end to intermediate shaft Ball end M8 19 Nm 31 - Front axle, front-wheel steering Value 31 42 - Telescopic forks Clamping screw (quick-release axle) in slider tube M8 x 35 19 Nm Leading link to engine M12 x 20 Tightening torque, 45 Nm Additional torque, 73 Nm Spring strut to front frame Hex nut, M10 x 1.25 Thread-locking compound (Loctite 243, Medium strength) Sealing screw in fork plug M4 x 8, Replace or-ring Spring strut, front, to leading link M10 x 15 x 10.5 x 1.25 x 10.9, Replace screw, lubricate head M11 x 15, Replace nut Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fork fixed tube M10 x 125 x 10.9, Replace screw M8 x 125, Replace screw M8		19 Nm
Ball end M8 19 Nm 31 - Front axle, front-wheel steering		25 /
31 - Front axle, front-wheel steering 31 42 - Telescopic forks Clamping screw (quick-release axle) in slider tube M8 x 35 Leading link to engine M12 x 20 Tightening torque, 45 Nm Additional torque, 73 Nm Spring strut to front frame Hex nut, M10 x 1.25 Thread-locking compound (Loctite 243, Medium strength) Sealing screw in fork plug M4 x 8, Replace O-ring Spring strut, front, to leading link M10 x 1.5 - 10.9, Replace screw, lubricate head Thread-locking compound (Micro-encapsulated), Installation tool (Optimoly TA) Ball joint to leading link M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Thread-locking compound (Micro-encapsulated) Ball joint to liadire-tube bridge M34 x 1.5 Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fork fixed tube M10 x 1.25 Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fork fixed tube M10 x 1.25 Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fork fixed tube M10 x 1.25 Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fork fixed tube M10 x 1.25 Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fork fixed tube M10 x 1.25 Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fork fixed tube M10 x 1.25 Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fork fixed tube M10 x 1.25 Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fork fixed tube M2 x 5, Replace screw Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fork fixed tube M3 x 5, Replace screw Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fork fixed tube M2 x 5, Replace screw Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fork fixed tube M3 x 5, Replace screw Thread-locking compound tu		19 Nm
31 42 - Telescopic forks Clamping screw (quick-release axle) in slider tube M8 x 35 Leading link to engine M12 x 20 Tightening torque, 45 Nm Additional torque, 73 Nm Spring strut to front frame Hex nut, M10 x 1.25 34 Nm Thread-locking compound (Loctite 243, Medium strength) Sealing screw in fork plug M4 x 8, Replace O-ring Spring strut, front, to leading link M10 x 50 x 1.25 - 10.9, Replace screw, lubricate head M10 x 50 x 1.25 - 10.9, Replace screw, lubricate head M10 x 50 x 1.25 - 10.9, Replace nut M10 x 50 x 1.25 - 10.9, Replace nut M10 x 50 x 1.25 - 10.9, Replace nut M10 x 50 x 1.25 - 10.9, Replace nut M10 x 50 x 1.25 - 10.9, Replace nut M10 x 50 x 1.25 - 10.9, Replace nut M10 x 50 x 1.25 - 10.9, Replace nut M10 x 50 x 1.25 - 10.9, Replace nut M10 x 50 x 1.25 - 10.9, Replace nut M10 x 50 x 1.25 - 10.9, Replace nut M10 x 50 x 1.25 - 10.9, Replace nut M10 x 1.5, Replace nut M10 x 1		
Clamping screw (quick-release axle) in slider tube M8 x 35		value
M8 x 35 Leading link to engine M12 x 20 Tightening torque, 45 Nm Additional torque, 73 Nm Spring strut to front frame Hex nut, M10 x 1.25 Thread-locking compound (Loctite 243, Medium strength) Sealing screw in fork plug M4 x 8, Replace O-ring Spring strut, front, to leading link M10 x 50 x 1.25 - 10.9, Replace screw, lubricate head Thread-locking compound (Micro-encapsulated), Installation tool (Optimoly TA) Ball joint to leading link M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Ball joint in slider-tube bridge Ball joint on slider tube Ball joint on slider-tube bridge	·	
Leading link to engine M12 x 20 Tightening torque, 45 Nm Additional torque, 73 Nm Spring strut to front frame Hex nut, M10 x 1.25 Sealing screw in fork plug M4 x 8, Replace O-ring Spring strut, front, to leading link M10 x 50 x 1.25 - 10.9, Replace screw, lubricate head Thread-locking compound (Micro-encapsulated), Installation tool (Optimoly TA) Ball joint to leading link M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M14 x 1.5, Replace nut M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M34 x 1.5 M36 x 1.5 M37 x 1.5 M37 x 1.5 M38 x 2.5, Replace onud (Micro-encapsulated) Fork bridge, top, to fork fixed tube M10 x 1.25 M10 x 10 x 1.25 M10 x 10 x		10 Nm
M12 x 20 Tightening torque, 45 Nm Additional torque, 73 Nm Spring strut to front frame Hex nut, M10 x 1.25 Thread-locking compound (Loctite 243, Medium strength) Sealing screw in fork plug M4 x 8, Replace O-ring Spring strut, front, to leading link M10 x 1.25 - 10.9, Replace screw, lubricate head Thread-locking compound (Micro-encapsulated), Installation tool (Optimoly TA) Ball joint to leading link M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Ball joint in slider-tube bridge M34 x 1.5 Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fork fixed tube M10 x 1.25 Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fork fixed tube M10 x 1.25 Thread-locking compound (mechanical) or, Thread-locking compound (Loctite 2701, High strength) Fork bridge, lower, to slider tube M8 x 25, Replace screw Thread-locking compound (Micro-encapsulated) Thread-locking co		15 MIII
Spring strut to front frame Additional torque, 73 Nm Spring strut to front frame Hex nut, M10 x 1.25 Thread-locking compound (Loctite 243, Medium strength) Sealing screw in fork plug M4 x 8, Replace O-ring Spring strut, front, to leading link M10 x 50 x 1.25 - 10.9, Replace screw, lubricate head M10 x 50 x 1.25 - 10.9, Replace screw, lubricate head M10 x 50 x 1.25 - 10.9, Replace screw, lubricate head M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated), Installation tool (Optimoly TA) Ball joint to leading link M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Ball joint in slider-tube bridge Ball joint in slider-tube bridge M34 x 1.5 Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fork fixed tube M10 x 1.25 Thread-locking compound (mechanical) or, Thread-locking compound (Loctite 2701, High strength) Fork bridge, lower, to slider tube M8 x 25, Replace screw Z5 Nm Thread-locking compound (Micro-encapsulated) 32 - Steering Walue M12 x 80 x 1.5, Replace screw 21 Nm		Tightening torque 45 Nm
Spring strut to front frame Hex nut, M10 x 1.25 34 Nm Thread-locking compound (Loctite 243, Medium strength) Sealing screw in fork plug M4 x 8, Replace O-ring Spring strut, front, to leading link M10 x 50 x 1.25 - 10.9, Replace screw, lubricate head Thread-locking compound (Micro-encapsulated), Installation tool (Optimoly TA) Ball joint to leading link M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Ball joint to leading link M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Ball joint slider-tube bridge M34 x 1.5 Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fork fixed tube M10 x 1.25 M10	INITE A 20	
Hex nut, M10 x 1.25 Thread-locking compound (Loctite 243, Medium strength) Sealing screw in fork plug M4 x 8, Replace O-ring Spring strut, front, to leading link M10 x 50 x 1.25 - 10.9, Replace screw, lubricate head Thread-locking compound (Micro-encapsulated), Installation tool (Optimoly TA) Ball joint to leading link M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Fork bridge to front frame M14 x 1.5, Replace nut Thread-locking compound (Micro-encapsulated) Ball joint in slider-tube bridge M34 x 1.5 Thread-locking compound (Micro-encapsulated) Ball joint fin slider-tube bridge M34 x 1.5 Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fork fixed tube M10 x 1.25 Thread-locking compound (Micro-encapsulated) Fork bridge, top, to fixed tube M10 x 1.25 Thread-locking compound (mechanical) Fork bridge, lower, to slider tube M8 x 25, Replace screw Thread-locking compound (Micro-encapsulated) 32 - Steering 32 - The Motorcycle handlebar Handlebar weight to handlebar Handlebar weight to handlebar Handlebar weight to handlebar	Spring strut to front frame	/ Additional torque, 75 Min
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M12 x 80 x 1.5, Replace screw 21 Nm	32 71 - Motorcycle handlebars	
	Handlebar weight to handlebar	
Thread-locking compound (Micro-encapsulated)	M12 x 80 x 1.5, Replace screw	21 Nm
	Thread-locking compound (Micro-encapsulated)	

Thread-locking compound (mechanical) Bleed screw to handlebar fitting M5 2.2 Nm Fluid reservoir to handlebar fitting 2.2 Nm Sareword palatic, 3.5 x 20, Replace screw 1.7 Nm 33 - Rear axle, rear-wheel drive and rear-wheel guidance 3311 - Final-drive unit housing with cover Housing cover to bevel gears M8 x 30 tighten in diagonally opposite sequence 30 Nm Hex nut to bevel pinion Clean the threads, M24 x 1.5 200 Nm Thread-locking compound (Loctite 2701, High strength) Thread-dring M5 x 1.5 180 Nm Olf drain plug in bevel gears M12 x 1.5 M12 x 1.5 M12 x 1.5 M13 x 1.5 M14 x 1.5 M15 x 1.5 M15 x 1.5 M16 x 1.5 M17 x 1.5 M18 x 1.5 M18 x 1.5 M18 x 1.5 M19 x 1.5 M10 x 1.5 M1	Tightening torques 0/80 - R 120	00 GS/Adventure
Handlebar clamping block to fork bridge MID x 99 - 10 9 36 Nm Alturnition handlebar in handlebar clamping block MIS x 10 9 9 10 16 Nm MIS x 10 Replace screw MIS x 10 Mm MIS x 25 A Mm MIS		
MID v. 90 - 30.9 Mis v. 30 Mis	·	value
Aluminium handlebar in handlebar damping block MS x 30 Bottom section of clamp to hand protector bottom section MS x 10. Replace screw Thread-locking compound (Micro-encapsulated) Top section of clamp to bottom section MS x 25 A Nm **Thread-locking compound (Micro-encapsulated) Top section of clamp to bottom section MS x 25 A Nm **Thread-locking compound (Micro-encapsulated) Top section of clamp to bottom section MS x 27 A Nm **Thread-locking compound (mechanical) **Sharplese nut Thread-locking compound (mechanical) **Sieced screw to handlebar fitting MS replace nut Thread-locking compound (mechanical) **Sieced screw to handlebar fitting MS replace with the section of clamp to the sectio		
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Bottom section of clamp to hand protector bottom section X + 10, Replace screw 2.5 Nm Thread-locking compound (Micro-encapsulated) Top section of clamp to bottom section X + 27		
MS x 10, Replace screw 2.5 Nm Thread-locking compound (Nicro-encapsulated) Top section of clamp to bottom section MS x 25 22.72 - Handlebar lever Handlebar fitting to handlebar SS x 20 S Nm SN x 20 S Nm WS x 15 S Nm WS x 16 S Nm		16 Nm
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32.72 - Mandlebar fitting to handlebar MS x 20		
Handlebar fitting to handlebar MS x 20		4 Nm
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Bleed screw to handlebar fitting STORM FOR plastic, 3,5 x 20, Replace screw 1,7 Nm 33 - Rear axia, eraer-wheel drive and rear-wheel guidance 33 11 - Final-drive unit housing with cover Housing cover to bevel gears Max 30 tighten in diagonally opposite sequence 30 Nm Hex nut to bevel pinion Clean the threads, M24 x 1.5 Thread-locking compound (Loctite 2701, High strength) Thread-locking compound (Loctite 2701, High strength) M55 x 1.5 Oil drain plug in bevel gears M12 x 1.5 M12 x 1.5 Dil filler plug in final drive housing M12 x 1.5 Stream-wheel drive hanger Final drive to swinging arm M12 x 1.5, Replace screw M12 x 1.5, Replace screw Thread-locking compound (Micro-encapsulated) Paralever reaction link to frame M10 x 55-10.9, Replace screw Thread-locking compound (Micro-encapsulated) Paralever reaction link to final drive M10 x 55-10.9, Replace screw Thread-locking compound (Micro-encapsulated) Paralever reaction link to final drive M10 x 55-10.9, Replace screw Thread-locking compound (Micro-encapsulated) Paralever reaction link to final drive M10 x 55-10.9, Replace screw 42 Nm Thread-locking compound (Micro-encapsulated) Paralever reaction link to final drive M10 x 55-10.9, Replace screw Thread-locking compound (Micro-encapsulated) Paralever in the final drive M10 x 55-10.9, Replace screw Thread-locking compound (Micro-encapsulated) Paralever in the final drive M10 x 55-10.9, Replace screw Thread-locking compound (Micro-encapsulated) Paralever in the final drive M10 x 55-10.9, Replace screw Thread-locking compound (Micro-encapsulated) Paralever in the final drive M10 x 55-10.9, Replace screw Tightening torque, 20 Nm Inflied bearing stud, swinging arm to main frame, right M6 x 16 M6 x 16	M5, Replace nut	7 Nm
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Fluid reservoir to handlebar fitting Screw for plastic, 3.5 x 20, Replace screw 33 11 - Final-drive unit housing with cover Housing cover to bevel gears Max 30 tighten in diagonally opposite sequence 30 Nm Max 30 tighten in diagonally opposite sequence 30 Nm Mex nut to bevel pinion Clean the threads, M24 x 1.5 200 Nm Thread-locking compound (Loctite 2701, High strength) Thread-locking compound (Loctite 2701, High strength) M55 x 1.5 180 Nm Oil drain plug in bevel gears M12 x 1.5 20 Nm Oil drain plug in bevel gears M12 x 1.5 25 Nm With sealing ring 12 x 16 33 17 - Rear-wheel drive housing M12 x 1.5, Replace screw M10 x 15 - 10.9, Replace screw M10 x 55 - 10.9, Replace screw M10 x 1.5 M24 x 1.25 M36 - M3	Bleed screw to handlebar fitting	
Screw for plastic, 3.5 x 20, Replace screw 33 - Rear axle, rear-wheel drive and rear-wheel guidance 33 - Rear axle, rear-wheel drive and rear-wheel guidance 33 1 - Final-drive unit housing with cover Housing cover to bevel gears MS x 30 tighten in diagonally opposite sequence 30 Nm Hex nut to bevel pinion Clean the threads, M24 x 1.5 Thread-locking compound (Loctite 2701, High strength) Threaded ring MS x 30 180 Nm Thread-locking compound (Loctite 2701, High strength) Threaded ring MS x 1.5 200 Nm Thread-locking to bevel gears M12 x 1 20 Nm Oil drain plug in bevel gears M12 x 1 20 Nm Oil filler plug in final drive housing M12 x 1.5 25 Nm with sealing ring 12 x 16 33 17 - Rear-wheel drive hanger Final drive to swinging arm M12 x 1.5, Replace screw 100 Nm Thread-locking compound (Micro-encapsulated) Paralever reaction link to frame M10 x 55 - 10.9, Replace screw 42 Nm Thread-locking compound (Micro-encapsulated) M10 x 55 - 10.9, Replace screw 42 Nm Thread-locking compound (Micro-encapsulated) Cock nut, swinging arm to main frame, left M24 x 1.25 Floating-bearing stud, swinging arm to main frame, left M24 x 1.25 Tightening torque, 20 Nm Flixed bearing stud, swinging arm to main frame, left M24 x 1.25 Tightening torque, 7 Nm Fixed bearing stud, swinging arm to main frame, right M6 x 16 Mn	M5	2.2 Nm
33 1 - Rear axle, rear-wheel drive and rear-wheel guidance 33 11 - Final-drive unit housing with cover Housing cover to bevel gears M8 x 30 tighten in diagonally opposite sequence 30 Nm Hex nut to bevel pinion Clean the threads, M24 x 1.5 Thread-locking compound (Loctite 2701, High strength) Thread-locking compound (Loctite 2701, High strength) Threaded ring M55 x 1.5 01 drain plug in bevel gears M12 x 1.5 W12 x 1.5 W13 y 1.5 W14 x 1.5 W15 y 1.5 W16 y 1.5 W17 y 1.5 W18 y 1.5 W18 y 1.5 W18 y 1.5 W19 y 1.5 W	Fluid reservoir to handlebar fitting	
## Housing cover to bevel gears ## Housing cover to bevel gears ## ## ## ## ## ## ## ## ## ## ## ## ##	Screw for plastic, 3.5 x 20, Replace screw	1.7 Nm
## Housing cover to bevel gears ## Housing cover to bevel gears ## ## ## ## ## ## ## ## ## ## ## ## ##	33 - Rear axle, rear-wheel drive and rear-wheel guidance	Value
Housing cover to bevel gears M8 x 30 tighten in diagonally opposite sequence 30 Nm Hex nut to bevel pinion Clean the threads, M24 x 1.5 Thread-locking compound (Loctite 2701, High strength) Threaded ring M65 x 1.5 Oil drain plug in bevel gears M12 x 1 Oil filler plug in final drive housing M12 x 1.5 25 Nm With sealing ring 12 x 16 33 17 - Rear-wheel drive hanger Final drive to swinging arm M12 x 1.5, Replace screw M12 x 1.5, Replace screw M14 x 1.5, Replace screw M15 x 1.5, Replace screw M10 x 55-10.9, Replace screw M10 x 55-10.9, Replace screw M10 x 55-10.9, Replace screw M10 x 1.5 x 1.0 W11 x 1.5 W11 x 1.0 W12 x 1.5 W13 x 1.0 W13 x 1.5 W14 x 1.5 W15 x 1.0 W15 x 1.5 W16 x 1.5 W17 x 1.5 W18 x 1.5 W18 x 1.5 W19 x		
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Hex nut to bevel pinion Clean the threads, M24 x 1.5 Clean the threads, M24 x 1.5 Thread-locking compound (Loctite 2701, High strength) Threaded ring M55 x 1.5 180 Nm Oil drain plug in bevel gears M12 x 1 20 Nm Oil filler plug in final drive housing M12 x 1.5 25 Nm With sealing ring 12 x 16 33 17. Rear-wheel drive hanger Final drive to swinging arm M12 x 1.5, Replace screw 100 Nm Thread-locking compound (Micro-encapsulated) Paralever reaction link to frand drive M10 x 55-10, Replace screw 42 Nm Thread-locking compound (Micro-encapsulated) Paralever reaction link to final drive M10 x 55-10, Replace screw 42 Nm Thread-locking compound (Micro-encapsulated) Faralever reaction link to final drive Lock nut, swinging arm to main frame, left M10 x 55-10, Replace screw Thread-locking compound (Micro-encapsulated) Thread-lock	100 x 30	
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33 17 - Rear-wheel drive hanger Final drive to swinging arm M12 x 1.5, Replace screw 100 Nm Thread-locking compound (Micro-encapsulated) Paralever reaction link to frame M10 x 55-10.9, Replace screw 42 Nm Thread-locking compound (Micro-encapsulated) Paralever reaction link to final drive M10 x 55-10.9, Replace screw 42 Nm Thread-locking compound (Micro-encapsulated) Paralever reaction link to final drive M10 x 55-10.9, Replace screw 42 Nm Thread-locking compound (Micro-encapsulated) Lock nut, swinging arm to main frame, left M24 x 1.25 145 Nm Floating-bearing stud, swinging arm to main frame, left M24 x 1.25 Tightening torque, 20 Nm Lubricate thread and bearing seat, Installation tool (Optimoly TA) slacken Tightening torque, 7 Nm Fixed bearing stud, swinging arm to main frame, right M6 x 16 Cover screw in bearing stud, right M6 x 8 9 Nm Link left to link right M6 x 16, Replace screw 8 Nm		25 IVIII
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M10 x 55-10.9, Replace screw Thread-locking compound (Micro-encapsulated) Lock nut, swinging arm to main frame, left M24 x 1.25 Floating-bearing stud, swinging arm to main frame, left M24 x 1.25 Tightening torque, 20 Nm Lubricate thread and bearing seat, Installation tool (Optimoly TA) Fixed bearing stud, swinging arm to main frame, right M6 x 16 Cover screw in bearing stud, right M6 x 8 Link left to link right M6 x 16, Replace screw 8 Nm		
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Lock nut, swinging arm to main frame, left M24 x 1.25 Floating-bearing stud, swinging arm to main frame, left M24 x 1.25 Tightening torque, 20 Nm Lubricate thread and bearing seat, Installation tool (Optimoly TA) Fixed bearing stud, swinging arm to main frame, right M6 x 16 Cover screw in bearing stud, right M6 x 8 United the study of the study		42 Nm
M24 x 1.25 Floating-bearing stud, swinging arm to main frame, left M24 x 1.25 Lubricate thread and bearing seat, Installation tool (Optimoly TA) Fixed bearing stud, swinging arm to main frame, right M6 x 16 Cover screw in bearing stud, right M6 x 8 Link left to link right M6 x 16, Replace screw M6 x 16, Replace screw		
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Lubricate thread and bearing seat, Installation tool (Optimoly TA) Slacken Tightening torque, 7 Nm Fixed bearing stud, swinging arm to main frame, right M6 x 16 Cover screw in bearing stud, right M6 x 8 9 Nm Link left to link right M6 x 16, Replace screw 8 Nm		
Tightening torque, 7 Nm Fixed bearing stud, swinging arm to main frame, right M6 x 16 Cover screw in bearing stud, right M6 x 8 9 Nm Link left to link right M6 x 16, Replace screw 8 Nm		3 3 1
Fixed bearing stud, swinging arm to main frame, right M6 x 16 Cover screw in bearing stud, right M6 x 8 9 Nm Link left to link right M6 x 16, Replace screw 8 Nm	Lubricate thread and bearing seat, Installation tool (Optimoly TA)	
M6 x 16 9 Nm Cover screw in bearing stud, right 9 Nm M6 x 8 9 Nm Link left to link right 8 Nm		Tightening torque, 7 Nm
Cover screw in bearing stud, right M6 x 8 9 Nm Link left to link right M6 x 16, Replace screw 8 Nm		
M6 x 8 9 Nm Link left to link right 8 Nm	M6 x 16	9 Nm
Link left to link right M6 x 16, Replace screw 8 Nm	Cover screw in bearing stud, right	
M6 x 16, Replace screw 8 Nm	M6 x 8	9 Nm
	Link left to link right	
Thread-locking compound (Micro-encapsulated)	M6 x 16, Replace screw	8 Nm
	Thread-locking compound (Micro-encapsulated)	

Tightening torques 0480 - R 1200 GS/	Adventure
Camhead Torques	Value
33 53 - Springs with mounts	· · · · · · · · · · · · · · · · · · ·
Spring strut to rear swinging arm	
M10 x 80 - 10.9	58 Nm
use thread-locking compound for repair, Thread-locking compound (Loctite 243, Medium st	
Spring strut to main frame	i engun
M10 x 1.25 x 65 - 10.9, Replace nut, lubricate screw head	50 Nm
Thread-locking compound (mechanical), Installation tool (Optimoly TA)	30 1111
Knob for spring-strut adjustment to rear frame	
M8 x 20	19 Nm
34 - Brakes	Value
34 11 - Front brake	value
Brake disc to front wheel	
blake disc to front wheel	
Elat head corous for rivet nackage M8 x 27 10 0 Penlace corous	tighten by stages in diagonally opposite sequence
Flat-head screw for rivet package, M8 x 27 - 10.9, Replace screw Thread-locking compound (Micro-encapsulated)	19 Nm
	T2 IAIII
Brake caliper to slider tube	30 Nm
M8 - 10.9	30 Nm
Brake caliper, front, bleed screw Grubscrew, brake pads	10 Nm 6 Nm
	O INITI
Bleed screw on handbrake fitting M5	E Nino
34 21 - Rear brake	5 Nm
Brake caliper to bevel gears M8 x 25	2.4 N/m
	24 Nm
Brake caliper, rear, bleed screw	5 Nm
Brake disc to wheel carrier	
M9 v 15 5 Deploye covery	tighten by stages in diagonally opposite sequence
M8 x 15.5, Replace screw	1st tightoning torque 12 Nm
Thread-locking compound (Micro-encapsulated)	1st tightening torque, 12 Nm
34 31 - Brake master cylinder	2nd tightening torque, 30 Nm
Piston rod, footbrake cylinder	
	Q Nm
Locknut, M6	8 Nm
Footbrake cylinder to rear frame	Q Nino
M6 x 20, Replace screw	8 Nm
Thread-locking compound (Micro-encapsulated)	
Brake fluid reservoir to rear frame M6 x 10, Replace screw	Q Nino
Thread-locking compound (Micro-encapsulated)	8 Nm
34 32 - Brake lines	
Brake hose cover to strut	
M6 x 16	0 Nm
	8 Nm
Brake hose with banjo bolt to components M10 x 1	2.4 Npa
	24 Nm
Connecting element to rear frame	9 Nm
	8 Nm
Brake line with union screw to components	14 Nm
M10 x 1, M12 x 1 Prake line to front frame	14 Nm
Brake line to front frame	11 Nm
M6 x 16	11 Nm
34 52 - Electronic components	
Speed sensor to final drive housing cover M5 x 10	4 Nico
	4 Nm
Cable clip to final drive housing cover M5 x 10	4 Nico
	4 Nm
35 - Foot operation	Value
35 21 - Footbrake lever with connecting linkage	

Tightening torques 0480 - F	R 1200 GS/Adventure
	Value
Camhead Torques	value
Footbrake lever to rear frame	
M8 x 35	21 Nm
36 - Wheels and tyres	Value
36 31 - Wheels with bearings	
Quick-release axle in axle holder	
M24 x 1.5	50 Nm
Rear wheel to wheel carrier	
M10 x 53 x 1.25	tighten in diagonally opposite sequence
	60 Nm
Nipple on spoke	
M4	1st tightening torque, 1 Nm
	2nd tightening torque, 4 Nm
Counter-hold spokes	
Grubscrew, M4	1 Nm
46 - Frame and mounted components	Value
46 51 - Motorcycle frame	
Rear frame to gearbox	
	1. Insert all screws; 2. tighten gearbox screw first; 3.
M8 x 55 10.9, Replace screw	then tighten remaining screws
	28 Nm
Rear frame to engine	
Bottom, M12 x 50, Replace screw	55 Nm
Rear frame to engine, top, M10 x 40, Replace screw	38 Nm
Thread-locking compound (Micro-encapsulated)	
Front frame to engine	
M12 x 210, Install with thread-locking compound for repair	110 Nm
Thread-locking compound (Loctite 243, Medium strength)	
Frame strut to engine	
M10 x 40, Replace screw	38 Nm
Thread-locking compound (Micro-encapsulated)	
Frame struts to front frame	
M10 x 106 x 1 - 10.9, Replace screw	70 Nm
Thread-locking compound (Micro-encapsulated)	
46 52 - Centre stand	
Centre stand to main frame	
M10 x 30, Replace screw	40 Nm
Thread-locking compound (Micro-encapsulated)	
Spring engagement plate to centre stand	
M8 x 30	20 Nm
46 53 - Side stand	
Side stand to pivot mount	
M10 x 1, Replace screw	40 Nm
Thread-locking compound (Micro-encapsulated)	
46 54 - Luggage system	
Tail section to rear frame, rear	
M6 x 16, Replace screw	8 Nm
Thread-locking compound (Micro-encapsulated)	
Stainless steel luggage carrier to rear frame, left and right	
with counter-holder, M6 x 40	8 Nm
to rear frame, centre, M6 x 40	10 Nm
Tail section to rear frame, front	
M6 x 50, Replace screw	8 Nm
Thread-locking compound (Micro-encapsulated)	
Stainless steel luggage carrier to rear frame, top centre	
M6 x 25	10 Nm
Bearing cap to tail section	-
TB screw, 4 x 10.5	2 Nm
,	

Tightening torques 0480 - R 1200	GS/Adventure
Camhead Torques	Value
Locking lever to tail section, one-piece	variae
TB screw, 4 x 10.5	2 Nm
46 61 - Front-wheel cover	
Front-wheel cover, top, to fairing bracket	
M5 x 16	2.4 Nm
Front-wheel cover, bottom, to fork slider tube bridge	
M5 x 14, Replace screw	2.4 Nm
Thread-locking compound (Micro-encapsulated)	
Spoiler, top, to front-wheel cover	
M5 x 16	2.4 Nm
Extension of front-wheel cover, top, to fairing bracket	
M5 x 20	2.4 Nm
46 62 - Rear-wheel cover, number-plate carrier	
Number-plate carrier to rear frame	
M5 x 16	2.4 Nm
Rear-wheel cover to frame, rear	
M5 x 16	2.4 Nm
Spray guard to rear-wheel drive	
M6 x 20, Replace screw	8 Nm
Thread-locking compound (Micro-encapsulated)	
Spray guard to bracket, rear-wheel drive	
M6 x 65, Replace screw	8 Nm
Thread-locking compound (Micro-encapsulated)	
Bracket, diagnosis plug to rear-wheel cover	
3.5 x 12 - 3.6	2.4 Nm
46 63 - Motorcycle fairing, windscreen	
Valve cover guard to cylinder head	
M6 x 25	10 Nm
Trim panels	
M5	2.5 Nm
Fairing bracket to front frame	
Bottom, M6 x 16, Replace screw	11 Nm
Thread-locking compound (Micro-encapsulated)	
Top, M6 x 25, Replace screw	11 Nm
Thread-locking compound (Micro-encapsulated)	
Windscreen to windscreen holder, top	
M5 x 20, Replace screw	2.5 Nm
Thread-locking compound (mechanical)	
Lug to fairing bracket	
M5 x 16	5 Nm
Side panel, bottom right, with side panel, fuel tank, to holder	2.11
M5 x 20	3 Nm
Headlight carrier to fairing bracket	E Nive
M5 x 16 Holder for Rider's Manual to intake air silencer	5 Nm
M5 x 16	2.11
Windscreen to windscreen holder, bottom	3 Nm
M5 x 18	2 F Nice
	2.5 Nm
Tank guard to crash bar M8 x 40	19 Nm
Side element, crash bar, to tank guard	13 MIII
M5 x 16	5 Nm
Tank guard to fairing bracket/crash bar	JINIII
M6 x 16	9 Nm
Crash bar to crankcase	3 MIII
M10 x 30	25 Nm
Crash bar to front frame	23 14111
Crash bar to none frame	

Tightening torques 0480 - R 120	00 GS/Adventure
Camhead Torques	Value
M6 x 16, Replace screw	9 Nm
Thread-locking compound (mechanical)	
51 - Trim panels	Value
51 16 - Mirrors, covers, ashtrays, stowage compartments	
Mirror (locknut) to adapter	
Left-hand thread, M10 x 1.25	22 Nm
Adapter to clamping block	
M10 x 14 - 4.8	25 Nm
51 25 - Other fasteners	
Ignition/steering lock to fork bridge	
Non-removable screw, M8, Replace screw	20 Nm
Thread-locking compound (Micro-encapsulated)	
Locking bar to seat lock	
Plastic screw, 4 x 10	2 Nm
Cap to ignition switch/steering lock	0.01
M3 x 20	0.6 Nm
52 - Seats and seat bench	Value
52 53 - Seat	
Front-seat bracket to rear frame	
Nut, M5	4 Nm
Latch for front seat to rear frame	
Nut, M5	4 Nm
61 - General vehicle electrics	Value
61 11 - Wiring harness	
Wiring harness with cable duct to rear frame	
M5 x 12	1.5 Nm
Wiring harness with cable duct to front frame	
M4 x 14	1.6 Nm
61 13 - Plug, terminal	
Wiring harness earth to cylinder head	
M6 x 10	8 Nm
Wiring harness earth to crankcase	
M6 x 12 - 10.9	8 Nm
Bracket, terminating resistor to rear-wheel cover	1 Nm
On-board socket to rear-wheel cover	
M18 x 1	3 Nm
61 21 - Battery with holder	
Wiring harness to battery	
M6	3.5 Nm
Battery holder to intake air silencer	
M5 x 16	5 Nm
61 31 - Switch, sensor	
Multifunction switch to handlebar grip	
PT screw K30 x 10	0.6 Nm
Rear brake light switch to footrest plate	
M5 x 10	5 Nm
Handlebar grip, left, to handlebar	
M3.5 x 32	2 Nm
Brake-light switch to handlebar fitting	
Grub screw, M4 x 8	0.6 Nm
Thread-locking compound (Micro-encapsulated)	
for re-use, Thread-locking compound (Loctite 243, Medium strength)	
Cover to multifunction switch	
PT screw K30 x 10	0.6 Nm
Cover to throttle-twistgrip unit	
Pan-head screw, 4 x 30	3 Nm

Tightening torques 0480 - R 1200 GS	S/Adventure
Camhead Torques	Value
Throttle-twistgrip unit to handlebar (clamp)	15.11
M5 x 20	5 Nm
Clutch switch to handlebar fitting	0.2 N
Screw, M2 x 12	0.3 Nm
Grub screw, M4 x 8	0.6 Nm
Thread-locking compound (Micro-encapsulated)	
for re-use, Thread-locking compound (Loctite 243, Medium strength) 61 33 - Horn	
Horn to frame	
M6 x 12	6 Nm
62 - Instruments	Value
62 21 - Instrument carrier	
Bracket, instrument cluster to headlight housing	1
Screw for plastic, 3,5 x 12	1 Nm
63 - Lights	Value
63 12 - Headlight	
Headlight to headlight carrier	
M6 x 30	5 Nm
63 13 - Flashing turn indicators, front	
Flashing turn indicator to headlight carrier	
M6 x 16	2 Nm
Glass to turn indicator housing, front	0.6 Nm
63 21 - Rear-light cluster	
Rear light to number-plate carrier	
M6, Replace nut	4 Nm
Thread-locking compound (mechanical)	
63 23 - Flashing turn indicators, rear	
Flashing turn indicator to number-plate carrier	10
M6 x 22	2 Nm
Thread-locking compound (mechanical)	
Glass to turn indicator housing, rear	0.6 Nm
71 - Parts and accessories for engine and frame and suspension	Value
71 11 - Accessory to engine	
Pipe clamp to retaining plate, engine guard	
M6 x 16	O Nime
	8 Nm
Engine guard to bracket for engine guard	8 NM
Engine guard to bracket for engine guard M6 x 25	8 Nm
Engine guard to bracket for engine guard M6 x 25 M6 x 20	
Engine guard to bracket for engine guard M6 x 25 M6 x 20 Bracket, engine guard, front, to crankcase	8 Nm 8 Nm
Engine guard to bracket for engine guard M6 x 25 M6 x 20 Bracket, engine guard, front, to crankcase M10 x 90	8 Nm 8 Nm 40 Nm
Engine guard to bracket for engine guard M6 x 25 M6 x 20 Bracket, engine guard, front, to crankcase M10 x 90 Right, M6 x 16	8 Nm 8 Nm
Engine guard to bracket for engine guard M6 x 25 M6 x 20 Bracket, engine guard, front, to crankcase M10 x 90 Right, M6 x 16 Bracket, engine guard, rear, to crankcase	8 Nm 8 Nm 40 Nm 8 Nm
Engine guard to bracket for engine guard M6 x 25 M6 x 20 Bracket, engine guard, front, to crankcase M10 x 90 Right, M6 x 16 Bracket, engine guard, rear, to crankcase M8 x 20 - 10.9	8 Nm 8 Nm 40 Nm
Engine guard to bracket for engine guard M6 x 25 M6 x 20 Bracket, engine guard, front, to crankcase M10 x 90 Right, M6 x 16 Bracket, engine guard, rear, to crankcase M8 x 20 - 10.9 Retaining plate, engine guard, to engine guard	8 Nm 8 Nm 40 Nm 8 Nm
Engine guard to bracket for engine guard M6 x 25 M6 x 20 Bracket, engine guard, front, to crankcase M10 x 90 Right, M6 x 16 Bracket, engine guard, rear, to crankcase M8 x 20 - 10.9 Retaining plate, engine guard, to engine guard M6 x 16	8 Nm 8 Nm 40 Nm 8 Nm
Engine guard to bracket for engine guard M6 x 25 M6 x 20 Bracket, engine guard, front, to crankcase M10 x 90 Right, M6 x 16 Bracket, engine guard, rear, to crankcase M8 x 20 - 10.9 Retaining plate, engine guard, to engine guard M6 x 16 71 32 - Accessory to handlebar	8 Nm 8 Nm 40 Nm 8 Nm
Engine guard to bracket for engine guard M6 x 25 M6 x 20 Bracket, engine guard, front, to crankcase M10 x 90 Right, M6 x 16 Bracket, engine guard, rear, to crankcase M8 x 20 - 10.9 Retaining plate, engine guard, to engine guard M6 x 16 71 32 - Accessory to handlebar Hand protector, large, to hand protector bottom section	8 Nm 8 Nm 40 Nm 8 Nm 19 Nm
Engine guard to bracket for engine guard M6 x 25 M6 x 20 Bracket, engine guard, front, to crankcase M10 x 90 Right, M6 x 16 Bracket, engine guard, rear, to crankcase M8 x 20 - 10.9 Retaining plate, engine guard, to engine guard M6 x 16 71 32 - Accessory to handlebar Hand protector, large, to hand protector bottom section M5 x 12	8 Nm 8 Nm 40 Nm 8 Nm
Engine guard to bracket for engine guard M6 x 25 M6 x 20 Bracket, engine guard, front, to crankcase M10 x 90 Right, M6 x 16 Bracket, engine guard, rear, to crankcase M8 x 20 - 10.9 Retaining plate, engine guard, to engine guard M6 x 16 71 32 - Accessory to handlebar Hand protector, large, to hand protector bottom section M5 x 12 Thread-locking compound (mechanical)	8 Nm 8 Nm 40 Nm 8 Nm 19 Nm
Engine guard to bracket for engine guard M6 x 25 M6 x 20 Bracket, engine guard, front, to crankcase M10 x 90 Right, M6 x 16 Bracket, engine guard, rear, to crankcase M8 x 20 - 10.9 Retaining plate, engine guard, to engine guard M6 x 16 71 32 - Accessory to handlebar Hand protector, large, to hand protector bottom section M5 x 12 Thread-locking compound (mechanical) Handlebar cross-member to handlebars	8 Nm 8 Nm 40 Nm 8 Nm 19 Nm 2.5 Nm
Engine guard to bracket for engine guard M6 x 25 M6 x 20 Bracket, engine guard, front, to crankcase M10 x 90 Right, M6 x 16 Bracket, engine guard, rear, to crankcase M8 x 20 - 10.9 Retaining plate, engine guard, to engine guard M6 x 16 71 32 - Accessory to handlebar Hand protector, large, to hand protector bottom section M5 x 12 Thread-locking compound (mechanical) Handlebar cross-member to handlebars M6 x 25	8 Nm 8 Nm 40 Nm 8 Nm 19 Nm
Engine guard to bracket for engine guard M6 x 25 M6 x 20 Bracket, engine guard, front, to crankcase M10 x 90 Right, M6 x 16 Bracket, engine guard, rear, to crankcase M8 x 20 - 10.9 Retaining plate, engine guard, to engine guard M6 x 16 71 32 - Accessory to handlebar Hand protector, large, to hand protector bottom section M5 x 12 Thread-locking compound (mechanical) Handlebar cross-member to handlebars M6 x 25 71 54 - Accessories for luggage carrier	8 Nm 8 Nm 40 Nm 8 Nm 19 Nm 2.5 Nm
Engine guard to bracket for engine guard M6 x 25 M6 x 20 Bracket, engine guard, front, to crankcase M10 x 90 Right, M6 x 16 Bracket, engine guard, rear, to crankcase M8 x 20 - 10.9 Retaining plate, engine guard, to engine guard M6 x 16 71 32 - Accessory to handlebar Hand protector, large, to hand protector bottom section M5 x 12 Thread-locking compound (mechanical) Handlebar cross-member to handlebars M6 x 25 71 54 - Accessories for luggage carrier Attachment, holder for tank rucksack to centre trim panel	8 Nm 8 Nm 40 Nm 8 Nm 19 Nm 2.5 Nm
Engine guard to bracket for engine guard M6 x 25 M6 x 20 Bracket, engine guard, front, to crankcase M10 x 90 Right, M6 x 16 Bracket, engine guard, rear, to crankcase M8 x 20 - 10.9 Retaining plate, engine guard, to engine guard M6 x 16 71 32 - Accessory to handlebar Hand protector, large, to hand protector bottom section M5 x 12 Thread-locking compound (mechanical) Handlebar cross-member to handlebars M6 x 25 71 54 - Accessories for luggage carrier Attachment, holder for tank rucksack to centre trim panel M5 x 18	8 Nm 8 Nm 40 Nm 8 Nm 19 Nm 2.5 Nm
Engine guard to bracket for engine guard M6 x 25 M6 x 20 Bracket, engine guard, front, to crankcase M10 x 90 Right, M6 x 16 Bracket, engine guard, rear, to crankcase M8 x 20 - 10.9 Retaining plate, engine guard, to engine guard M6 x 16 71 32 - Accessory to handlebar Hand protector, large, to hand protector bottom section M5 x 12 Thread-locking compound (mechanical) Handlebar cross-member to handlebars M6 x 25 71 54 - Accessories for luggage carrier Attachment, holder for tank rucksack to centre trim panel	8 Nm 8 Nm 40 Nm 8 Nm 19 Nm 2.5 Nm

Tightening torques 0480 - R 1200 GS/Adventure	
Camhead Torques	Value
71 60 - Miscellaneous accessories	
Holder to stay of windscreen	
M5 x 12	3 Nm
Advanced Mount Cradle to holder	
M4 x 20	1 Nm
77 - Optional accessories, motorcycle	Value
77 11 - Exhaust system	
Cover to silencer	
M5 x 12	3 Nm
77 12 - Housing cover, cover panel	
Cover/guard to cylinder head	
M6 x 25	8 Nm
77 25 - Frame, footrests, mounted parts	
Frame guard to frame	
M5	5 Nm
Frame guard to clamp	
M6	8 Nm