

Shifthead R1250 SC GS/GSA

Tightening torques R 1250 GS

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
 63: Lights
 65: Audio, Navigation, Information Systems
 77: Optional Accessories

11 - Engine	Value
11 11 - Engine block	
Threaded plug for locking at TDC in crankcase	
M16 x 1.5	30 Nm
Bracket, engine guard to crankcase	
M8 x 25	19 Nm
Oil drain plug to crankcase	
M20 x 1.5	42 Nm
Assembly of crankcase	
M10 x 130	Tightening torque, 25 Nm
	Additional angle of rotation, 90°
Engine guard to bracket	
M6 x 20	8 Nm
Anti-twist plate (friction bearing) to crankcase	
M6 x 25	12 Nm
Assembly of crankcase	
M6 x 30	12 Nm
Assembly of crankcase	
M8 x 80	19 Nm
Diaphragm valve to crankcase	
M6 x 16	12 Nm
Threaded plug (connection for oil pressure measurement) in crankcase	
M10 x 1	10 Nm
Coolant drain plug in crankcase	
M10 x 1	15 Nm
Coolant filler adapter in crankcase	
M10 x 1	10 Nm
11 12 - Cylinder head with cover	

Shifthead R1250 SC GS/GSA

Tightening torques R 1250 GS

Cylinder head cover to cylinder head	
M6 x 76	10 Nm
Cylinder head to crankcase	
M10 x 110	tighten in diagonally opposite sequence
	1st tightening torque, 5 Nm
	2nd tightening torque, 20 Nm
	3rd tightening torque, 40 Nm
	Additional angle of rotation, 120°
M6 x 25	12 Nm
M6 x 95	12 Nm
Slip pad to cylinder-head cover	
M6 x 14	9 Nm
Camshaft bearing cap to cylinder head	
M6 x 35	tighten alternately
	10 Nm
Oil filler screw in cylinder head cover	
M34 x 1.5	8 Nm
11 14 - Housing cover	
Crankcase cover to crankcase	
M6 x 20	Tightening sequence: see Repair Manual
	12 Nm
Oil tank to front cover	
M5 x 16	5 Nm
11 15 - Crankcase breather	
Breather cover to gearbox cover	
M6 x 20	12 Nm
Breather wheel to crankshaft	
M10 x 1 x 25	40 Nm
11 24 - Conrod with bearings	
Conrod bolt	
M10 x 1 x 50 - 13.9, Replace screw	1st tightening torque, 5 Nm
Thread and seating face of the screw oiled	2nd tightening torque, 20 Nm
	Additional angle of rotation, 150°
	Slacken and then retighten the bolt
	1st tightening torque, 5 Nm
	2nd tightening torque, 20 Nm
	Additional angle of rotation, 150°
11 26 - Starter freewheel, layshaft	
Freewheel housing to alternator	
M8 x 16 - 12.9	35 Nm
Sleeve (axial stop, freewheel gear) to crankcase	
M6 x 50, for re-use	10 Nm
Thread-locking compound (Loctite 243, Medium strength)	
11 31 - Camshaft	
Camshaft sprocket to camshaft	
left exhaust camshaft, M10 x 1.25 x 35 - 10.9	65 Nm
other camshafts, M10 x 1.25 x 25 - 10.9	65 Nm
Trigger for camshaft sensor to camshaft	
M5 x 20	6 Nm
Securing screw for intermediate shaft axle in cylinder head	

Shifthead R1250 SC GS/GSA

Tightening torques R 1250 GS

M6 x 14	8 Nm
Sprocket to intermediate shaft	
M6 x 12	10 Nm
other camshafts, M10 x 1.25 x 25 - 10.9	65 Nm
Chain tensioner to cylinder	
M18 x 1.5	30 Nm
11 41 - Oil pump with strainer and drive	
Oil-pump cover to crankcase	
M6 x 16	8 Nm
Oil intake in crankcase	
M6 x 20	8 Nm
Threaded plug for oil pressure control valve in crankcase	
M24 x 1.5	42 Nm
11 42 - Oil filter and lines	
Oil filter to crankcase	
Lubricate sealing ring with engine oil	11 Nm
Oil filter adapter to crankcase	
M20 x 1.5	35 Nm
11 51 - Coolant pump with drive	
Coolant pump to crankcase	
M6 x 40	12 Nm
11 53 - Thermostat and on-engine coolant lines	
Coolant adapter for thermostat to crankcase	
M6 x 16	12 Nm
Coolant adapter to crankcase	
M6 x 16	12 Nm
11 78 - Exhaust controls	
Oxygen sensor to exhaust manifold	
M18 x 1.5	45 Nm
Lubricate thread, Installation tool (Optimoly TA)	
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	
Cover for coil to cylinder head	
M5 x 20	5 Nm
12 31 - Alternator with drive and fasteners	
Rotor to crankshaft	
M24 x 1.5	250 Nm
Coil carrier to crankcase	
M6 x 20	12 Nm
Stator to coil carrier	
M6 x 40	10 Nm
12 32 - Regulator	
Voltage regulator to rear-wheel cover	
M5 x 25	5 Nm
12 41 - Starter with fastener	
Starter to gearbox cover	
M6 x 40	12 Nm

Shifthead R1250 SC GS/GSA

Tightening torques R 1250 GS

Wiring harness (ground) to starter	
M6 x 10	8 Nm
Wiring harness (positive) to starter	
M6, Replace nut	8 Nm
Thread-locking compound (mechanical)	
12 61 - Oil pressure, oil temperature, oil-level indicators	
Oil-level sensor to gearbox cover	
M6 x 16	8 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
12 62 - Coolant temperature	
Coolant-temperature sensor to coolant port	
M12 x 1.5	15 Nm
12 72 - Transmitter for control unit	
Crankshaft sensor on crankcase	
M6 x 14	8 Nm
Camshaft sensor to cylinder head	
M6 x 16	8 Nm
13 - Fuel preparation and control	Value
13 53 - Injection nozzles and lines	
Injection valve to cylinder head	
M5 x 20	5 Nm
13 64 - Injection valves, start valves	
Cover for injection valve to cylinder head	
M5 x 20	5 Nm
13 71 - Intake air silencer	
Intake air silencer to tank bracket	
M6 x 25	8 Nm
13 72 - Air filter	
Air filter cover to intake air silencer	
M5 x 50	in diagonally opposite sequence
	3 Nm
16 - Fuel supply	Value
16 11 - Fuel tank with filler neck	
Tank bracket to frame	
M6 x 12	8 Nm
Fuel tank to frame	
M8 x 45	19 Nm
Fuel filler cap to fuel tank	
M5 x 28	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 11 - Radiator with fasteners	
Radiator to front panel carrier	
Special thread for light alloy, 6 x 25	12 Nm
Radiator to frame	
M6 x 25	8 Nm

Shifthead R1250 SC GS/GSA

Tightening torques R 1250 GS

Thread-locking compound (Micro-encapsulated) or, Thread-locking compound (Loctite 243, Medium strength)	
17 13 - Expansion tank	
Expansion tank to intake air silencer	
Screw for plastic, 5.5 x 16	4 Nm
18 - Exhaust system	Value
18 51 - Exhaust system parts with mountings	
Bracket for exhaust manifold/servomotor to gearbox	
M6 x 25	8 Nm
Servomotor to bracket	
Screw for plastic, 5 X 12	2 Nm
Exhaust header to cylinder head	
M8	19 Nm
Cover to silencer / exhaust manifold	
M5 x 10	5 Nm
Clamp to silencer and exhaust manifold	22 Nm
Silencer to rear frame	
M8 x 35	19 Nm
Clamp to silencer	
M5 x 16	8 Nm
Thread-locking compound (Loctite 243, Medium strength)	
Plastic cover to silencer	
M5 x 10	5 Nm
Thread-locking compound (Micro-encapsulated) or, Thread-locking compound (Loctite 243, Medium strength)	
21 - Clutch	Value
21 21 - Clutch with driver plate	
Clutch hub to layshaft	
M20 x 1.5, Replace nuts and lubricate with engine oil	Tightening torque, 150 Nm
	Fully slacken nut
	Tightening torque, 150 Nm
Clutch cage to balancing shaft	
M36 x 1.5, Replace nuts and lubricate with engine oil	Tightening torque, 170 Nm
	Slacken the nut
	Tightening torque, 250 Nm
Drive gear to clutch cage	
M8 x 15.5	22 Nm
Thread-locking compound (Micro-encapsulated) or, Thread-locking compound (Loctite 243, Medium strength)	
Mounting plate to clutch hub	
M6 x 30	10 Nm
lubricate with engine oil	
21 52 - Clutch actuation (hydraulics)	
Clutch slave cylinder to gearbox cover	
M6 x 20	Tighten the screws twice
	8 Nm
Clutch line to clutch lever fitting	
M10 x 1	7 Nm
Clutch line to clutch slave cylinder	
M10 x 1	7 Nm

Shifthead R1250 SC GS/GSA

Tightening torques R 1250 GS

Bleed screw to clutch slave cylinder	5 Nm
23 - Gearbox	Value
23 11 - Housing with cover	
Gearbox cover to crankcase	
M6 x 25	12 Nm
Shift-mechanism cover to gearbox cover	
M6 x 20	12 Nm
23 12 - Bearing in housing, sealing rings	
Retaining plate for fixed mount to gearbox cover	
Inside, M6 x 16	Tightening torque, 8 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	Additional angle of rotation, 90°
at end, M6 x 25	Tightening torque, 8 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	Additional angle of rotation, 90°
23 14 - Electrical components	
Gearbox potentiometer to gearbox cover	
M5 x 14 - 10.9	5 Nm
23 31 - Internal gearshift components	
Retaining plate for selector drum to gearbox cover	
M6 x 16	10 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
Locking lever on gearbox cover	
M6 x 18	Tightening torque, 8 Nm
	Additional angle of rotation, 90°
23 41 - External gearshift components	
Selector lever to selector shaft	
M6 x 30	8 Nm
Peg (clamp) to shift lever	
M6 x 16	8 Nm
Gearshift lever to frame	
M8 x 25	19 Nm
Ball end to shift lever	
M8	19 Nm
Ball joint to shift rod	
Locknut, M6	8 Nm
31 - Front axle, front-wheel steering	Value
31 42 - Telescopic forks	
Clamping screw for quick-release axle in telescopic fork	
M8 x 35	19 Nm
Leading link to engine	
M14 x 1.5	120 Nm
Sealing screw in fork plug	
M4 x 8, Replace O-ring	2.5 Nm
Ball joint to leading link	
M14 x 1.5	130 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 2701, High strength)	
Stud bolts in fork bridge	

Shifthead R1250 SC GS/GSA

Tightening torques R 1250 GS

M14 x 1.5	130 Nm
Thread-locking compound (Micro-encapsulated) or, Thread-locking compound (Loctite 243, Medium strength)	
Fork bridge, top, to fork fixed tube	
M10 x 1.25	40 Nm
Thread-locking compound (mechanical) or, Thread-locking compound (Loctite 2701, High strength)	
Fork bridge, lower, to slider tube	
M8 x 35	19 Nm
31 48 - Spring strut, mounting parts	
Spring strut, front, to frame and leading link	
M10 x 1.5 x 55 - 10-9	56 Nm
Thread-locking compound (Micro-encapsulated) or, Thread-locking compound (Loctite 2701, High strength)	
ride-height sensor to tank bracket	
M5	5 Nm
Ball end to leading link/ride-height sensor	
M6 x 14.5	8 Nm
Actuator rod to ride-height sensor	
M6	8 Nm
32 - Steering	Value
32 71 - Motorcycle handlebars	
Handlebar weight to handlebar	
M10 x 50	40 Nm
Clamping block (handlebar clamp) on fork bridge	
M8 x 35	tighten in riding direction at the front of the block
	19 Nm
Hand protector to bracket	
M5 x 14.5	2 Nm
32 72 - Handlebar lever	
Cap to reservoir	
M4 x 16	2.5 Nm
Handlebar fitting to handlebar	
M6 x 30	8 Nm
Lever to handlebar fitting	
M5, Replace nut	7 Nm
Thread-locking compound (mechanical)	
33 - Rear axle, rear-wheel drive and rear-wheel guidance	Value
33 35 - Rear wheel swinging arm with pivot mount, link	
Bevel gears to swinging arm	
M12 x 1.5	100 Nm
Thread-locking compound (Micro-encapsulated) or, Thread-locking compound (Loctite 2701, High strength)	
Locknut (bearing stud) to frame	
M24 x 1.25	145 Nm
Floating bearing stud (swinging arm) to frame	
M24 x 1.25	Tightening torque, 15 Nm
Lubricate thread and bearing seat, Installation tool (Optimoly TA)	Loosen

Shifthead R1250 SC GS/GSA

Tightening torques R 1250 GS

	Tightening torque, 7 Nm
Bearing stud, swinging arm to frame, left	
M27 x 1.25	100 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 2701, High strength)	
Paralever link to bevel gears	
M10 x 60 - 10.9	56 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 2701, High strength)	
Paralever link to frame	
M10 x 60 - 10.9	56 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 2701, High strength)	
33 54 - Spring strut, mounting parts	
Spring strut to frame	
M12 x 1.5 x 60	100 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 2701, High strength)	
Spring strut to swinging arm	
M12 x 1.5 x 75 - 10.9	100 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 2701, High strength)	
Retaining plate (ride-height sensor) to frame	
M6 x 35	8 Nm
Ball end (actuator rod) to rear wheel swinging arm	
M6	8 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
Ball end (actuator rod) to ride-height sensor	
Nut, M6	
Ball end, M6	8 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
Spray guard to spring strut	
M4 x 6	3 Nm
Thread-locking compound (Loctite 243, Medium strength)	
33 74 - Bevel gears, rear	
Cover to bevel gears, rear	
M8 x 30, Replace screws	tighten in diagonally opposite sequence
	Tightening torque, 10 Nm
	Additional angle of rotation, 45°
33 75 - Housing for bevel gears, rear	
Oil drain plug in bevel gears	
M12 x 1	20 Nm
Oil filler plug to bevel gears	
M12 x 1.5	20 Nm
34 - Brakes	
Value	
34 11 - Front brake	
Brake disc to front wheel	

Shifthead R1250 SC GS/GSA

Tightening torques R 1250 GS

M8 x 27, Replace screw	tighten by stages in diagonally opposite sequence
Thread-locking compound (Micro-encapsulated)	19 Nm
Brake caliper on telescopic fork	
M10 x 65	38 Nm
Sensor ring to front wheel	
M5 x 10	5 Nm
Bleed screw in front brake caliper	
M8	10 Nm
Grub screw (brake pads) in brake caliper	6 Nm
34 21 - Rear brake	
Brake caliper to bevel gears	
M8 x 25	24 Nm
Sensor ring to rear wheel	
M5 x 10	5 Nm
Bleed screw in rear brake caliper	14 Nm
Brake disc to wheel flange	
M8 x 15.5, Replace screw	tighten by stages in diagonally opposite sequence
Thread-locking compound (Micro-encapsulated)	Tightening torque, 12 Nm
	Additional torque, 30 Nm
34 31 - Brake master cylinder	
Locknut to piston rod (footbrake cylinder)	
M8	17 Nm
Footbrake cylinder with heel deflector to frame	
M6 x 20	8 Nm
Brake-fluid reservoir to frame	
M6 x 16	8 Nm
34 32 - Brake lines	
Brake hose cover to strut	
M5 x 12	5 Nm
Brake hose with banjo bolt to components	
M10 x 1	24 Nm
Brake line to fork bridge	
M6 x 16	8 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
34 51 - Mechanical, hydraulic components	
ABS pressure modulator on retainer	
M6 x 14.5	8 Nm
35 - Foot operation	
Value	
35 21 - Footbrake lever with connecting linkage	
Footbrake lever to frame	
M8 x 25	19 Nm
Cable holder for wheel-speed sensor to telescopic forks	
M5 x 10	5 Nm
Wheel-speed sensor to telescopic forks/bevel gears	
M6 x 16	8 Nm
36 31 - Wheels with bearings	
Quick-release axle in telescopic forks	

Shifthead R1250 SC GS/GSA

Tightening torques R 1250 GS

M12 x 20	30 Nm
Rear wheel to wheel flange	
M10 x 1.25 x 40	tighten in diagonally opposite sequence
	60 Nm
Metal valve in rim	
Thread 1/8 inch	12 Nm
Thread-locking compound (Loctite 243, Medium strength)	
Nipple on spoke	
M4	1st tightening torque, 1 Nm
	2nd tightening torque, 4 Nm
Thread locking compound for spoke nipples	
Grubscrew, M4	2 Nm
RDC sensor to wheel rim	
M8 x 25, use thread-locking compound for repair	9 Nm
Thread-locking compound (Loctite 243, Medium strength)	
46 - Frame and mounted components	Value
46 51 - Motorcycle frame	
Rear frame to main frame	
Top, M10 x 30	56 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 2701, High strength)	
Main frame to engine	
top front, M12 x 255 - 10.9	100 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
bottom rear, M10 x 45	55 Nm
bottom front, M10 x 45	55 Nm
top rear, M12 x 210	100 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
46 53 - Side stand	
Side stand to pivot mount	
M10 x 1, Use thread-locking compound	35 Nm
Thread-locking compound (Loctite 2701, High strength)	
Threaded pin (side-stand spring) in frame	
M10 x 1.5	38 Nm
46 54 - Luggage system	
Luggage rack base to luggage rack	
M6 x 20	5 Nm
Luggage carrier to rear frame	
M8 x 20	19 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
M8 x 40	19 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
Luggage carrier to rear frame	
M8	19 Nm
Thread-locking compound (Loctite 243, Medium strength)	
46 61 - Front-wheel cover	

Shifthead R1250 SC GS/GSA

Tightening torques R 1250 GS

Front-wheel cover, top, to fairing bracket	
M5 x 14.5	2 Nm
Front-wheel cover to telescopic forks/fork bridge	
M5 x 14.5	2 Nm
46 62 - Rear-wheel cover, number-plate carrier	
Number-plate carrier to rear frame	
M6 x 17.5	8 Nm
Rear-wheel cover to rear frame	
M6 x 17.5	8 Nm
Spray guard to bevel gears	
M6 x 20	8 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
Tail section to rear frame	
Front, M8 x 40	19 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
Rear, M8 x 25	19 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
46 63 - Motorcycle fairing, windscreen	
Bracket to windscreen and covers	
M5 x 14.5	2 Nm
Front panel carrier, left/right to frame	
M8 x 30	19 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
Trim panels	
M5	2 Nm
Windscreen to windscreen holder	
M5 x 10	4 Nm
Front panel carrier, centre, to frame	
M6 x 50	12 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
Front panel carrier, left/right to front panel carrier, centre	
Front, M6 x 16, Replace screw	8 Nm
Rear, M6 x 30, Replace screw	8 Nm
Cover for fuel tank, centre, to frame	
M6 x 25	8 Nm
46 71 - Engine fasteners, footrests	
Footrest plate (rear) to rear frame	
M8 x 30 - 10.9	38 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
Cap to rear footrest plate	
M4 x 12	1.5 Nm
Left heel deflector to frame	
M6 x 12	8 Nm
51 - Trim panels	Value

Shifthead R1250 SC GS/GSA

Tightening torques R 1250 GS

51 16 - Mirrors, covers, ashtrays, stowage compartments	
Mirror (lock nut) 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)	
52 - Seats and seat bench	Value
52 53 - Seat	
Latch, rear seat, to rear carrier	
Screw for plastic, 4 x 10	1 Nm
Seat adjuster to frame	
M6 x 14.5	4 Nm
61 - General vehicle electrics	Value
61 13 - Plug, terminal	
Wiring harness (ground) to cylinder head	
M6 x 10	8 Nm
Battery-positive connection point to battery carrier	
M6 x 14	2 Nm
61 21 - Battery with holder	
Wiring harness to battery	
M6 x 10	5 Nm
61 31 - Switch, sensor	
Multifunction switch to grip unit	
Screw for plastic, 2.5 x 15	0.4 Nm
Cover to multifunction switch	
Screw for plastic, 2.5 x 15	0.4 Nm
Throttle twistgrip/handlebar grip, left, to handlebar	
M3.5 x 30	1.5 Nm
Clutch switch to handlebar fitting	
Screw for plastic, 2.2 x 22	0.4 Nm
61 33 - Horn	
Horn to front panel carrier	
M8 x 18	19 Nm
61 34 - On-board sockets, cigarette lighter	
On-board socket to front panel carrier	
M18 x 1	3 Nm
61 36 - Relay	
Wiring harness to starter relay	
M6, Replace nut	6 Nm
Thread-locking compound (mechanical)	
63 - Lights	Value
63 12 - Headlight	
Headlight to front panel carrier	
M6 x 20	5 Nm
63 13 - Flashing turn indicators, front	
Flashing turn indicator to front panel carrier	
M6 x 16	4 Nm

Shifthead R1250 SC GS/GSA

Tightening torques R 1250 GS

63 23 - Flashing turn indicators, rear	
Flashing turn indicator to number-plate carrier	
M6 x 20	3 Nm
65 - Audio, navigation, information systems	Value
65 90 - Navigation systems	
Left retainer to front panel carrier	
M6 x 18	8 Nm
Right retainer to front panel carrier	
M6 x 16	8 Nm
77 - Optional accessories, motorcycle	Value
77 11 - Exhaust system	
Sports silencer to rear frame	
M8 x 35	19 Nm
Heat shield to exhaust manifold	
Clamp	3 Nm
Screw, M5 x 12	3 Nm
Sports silencer to exhaust manifold	10 Nm
77 14 - Engine guard, crash bars	
Crash bar to engine	
M8 x 35	19 Nm
Pipe clamp with retaining plate to frame tube	
M6 x 16	8 Nm
Enduro engine guard to retaining plate	
M6 x 16	8 Nm
Enduro engine guard to bracket	
M6 x 25	8 Nm
Spacers (engine protection bar) to frame	
M8 x 20	19 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
Crash bar to frame, top	
M8 x 30	19 Nm
Crash bar with frame to engine	
Rear bottom, M10 x 45	55 Nm
77 25 - Frame, footrests, mounted parts	
Mount to carrier	
M8 x 25	20 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
Clamping block to footrest	
M8 x 20	20 Nm
77 30 - Mounted parts, trim panels	
Cover for hole for grab handle to rear frame	
M8 x 20	3 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
M8 x 40	3 Nm
Thread-locking compound (Micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	
77 42 - Mounted parts, cases	

Shifthead R1250 SC GS/GSA

Tightening torques R 1250 GS

Cap to footrest plate	
M4 x 12	1.5 Nm
77 44 - Mounted parts, topcase, luggage carrier	
Topcase rack with grab handle to rear frame	
M8 x 35	19 Nm
Thread-locking compound (Loctite 243, Medium strength)	
M8 x 40	19 Nm
Thread-locking compound (Loctite 243, Medium strength)	
Cover to carrier plate	
M5 x 14.5	2 Nm
Topcase rack to grab handle	
M6 x 20	5 Nm
Carrier plate to rear frame	
M8 x 35	19 Nm
M8 x 50	19 Nm
77 45 - Tank rucksack	
Front attachment for tank rucksack to frame	
M6 x 28	8 Nm
77 51 - Lights	
LED auxiliary headlight to bracket	
M6 x 40	6 Nm
Bracket, LED auxiliary headlight to front panel carrier	
M6 x 30	8 Nm
Thread-locking compound (mechanical)	
or, Thread-locking compound (Loctite 243, Medium strength)	
Bracket to cockpit fairing	
M5 x 17.5	2 Nm
Headlight guard to attachment	
M6 x 10	5 Nm
77 53 - Switches, small items, control unit	
Additional switch to clamping block	
M5 x 14	3 Nm