

RSV1000 Mille Torque Specs

Engine					
Fastening of engine to frame					
Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Front connection	2+2	M10	40	29.5	
Left-side upper and lower rear connection	2	M10	50	36.8	
Adjusting bush right-side upper and lower rear connection	2	M20x1.5	12	8.8	
Lock ring right-side upper and lower rear connection	2	M20x1.5	50	36.8	
Screw right-side upper and lower rear connection	2	M10	50	36.8	
Elements fastened to the engine					
Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Engine oil inlet flange	2	M6	12	8.8	
Engine oil drain plug	2	M6	12	8.8	
Rear brake lever mount fastening	1	M6	10	7.4	
Rear brake lever mount fastening	1	M8	17	12.5	
Rear brake pump mount fastening	2	M8	17	12.5	
Pinion fastening	1	M10	50	36.8	
Clutch control cylinder fastening	3	M6	12	8.8	
Pinion case fastening	3	M6	6	4.4	
Fastening of fuel delivery pipe to throttle body	1	M12x1.5	22	16.2	
Coolant drain screw	1	M6	10	7.4	
Coolant thermistors	2	M14	30	22.1	
Driving shaft, countershaft, gearshift					
Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Positioning lever / positioning disc	2	Screw T.C.E.I. M6 x 20	11	8.1	L243
Differential shaft under KS	1	Nut M22 x 1.5	150	110.5	
KS driving shaft	1	Nut M33 x 1.5	230	169.5	L243
Countershaft under MS	1	Screw T.C.E.I. M10 x 20	50	36.8	L648
Oil Pump					
Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Oil pump	1	M12 x 1.5			L648
Oil pump casing	1				L574
Oil pump lid	4	Screw T.C.E.I. M6 x 45	11	8.1	
Clutch					
Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Secondary KS shaft	1	Nut M24 x 1.5	170	125.3	L648

Clutch spring	6	Screw T.E. M6 x 25	11	8.1	
Disengagement rod	1	Locking nut M12	30	22.1	
Complete diaphragm ring	8	Screw T.C.E.I. M5 x 20	5	3.7	
Clutch gear / clutch housing	3	Screw T.E. M8 x 16	30	22.1	L648
Head, cylinders					
Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Camshaft support / head "1" (front)	8	Screw T.C.E.I. M6 x 30	11	8.1	
Head "1" (front)	2	Exhaust pipe M18 x 1.5	manual tightening		L243
Head "2" (rear)	1	Exhaust pipe M18 x 1.5	manual tightening		L243
Camshaft support / head "2" (rear)	4	Screw T.C.E.I. M6 x 30	11	8.1	
Camshaft support / head "2" (rear)	2	Screw T.C.E.I. M6 x 45	11	8.1	
Camshaft support / head "2" (rear)	2	Screw T.C.E.I. M6 x 55	11	8.1	
Head "2" (rear)	1	Plug screw M18 x 1.5	manual tightening		L243
Head / exhaust	6	Stud bolt M8 x 16/20	10	7.4	L648
Head "2" (rear)	1	Angular union			L574
Head / case	8	Stud bolt M10 x 171	10	7.4	L243
Cylinder / head non varnished cylinder version	8	M8 x 45	28-30	20.6-22.1	
Cylinder / head varnished cylinder version	8	M8 x 45	25-28	18.4-20.6	
Head / stud bolt not varnished head version	8	Nut M10	58	42.7	
Head / stud bolt varnished head version	8	Nut M10	50-55	36.8-40.5	
Head / stud bolt varnished version with nut on outer side	8	Nut M10	58	42.7	
Head / chain compartment	4	Screw T.C.E.I. M6 x 100	12	8.8	
Head "2" (rear) / bearing flange	2	Screw T.E. M6 x 35	11	8.1	
Head "2" (rear) / bearing flange	2	Screw T.E. M6 x 20	11	8.1	
Head "2" (rear) / differential transmission - exhaust camshaft	3	Screw T.E. M6 x 14	11	8.1	L243
Drive gear / induction camshaft	6	Screw T.C.E.I. M6 x 11.5	11	8.1	L243
Head "1" (front) / gear - exhaust camshaft	3	Screw T.C.E.I. M6 x 11.5	11	8.1	L243
Head "2" (rear) / differential transmission upper side	1	Nut M14 x 1	50	36.8	L243
Valve cover	10	Spacer screw M6 x 23	9	6.6	
Head "1" (front) / chain guide shoe	2	Spacer screw M6 x 16	11	8.1	
Head	4	Spark plug	18	13.3	
Induction flange	4	Screw T.C.E.I. M8 x 25	19	14.0	
Cylinder / chain tightener	2	Plug screw M16 x 1.5	30	22.1	
Head "1" (front)	1	Coolant temp. thermistor	20	14.7	

Head "2" (rear)	1	Coolant temp. thermistor	20	14.7	
Cylinder bracket support shoe	2	Screw T.C.E.I. M10 x 40	40	29.5	
Cylinder bracket support shoe	2	Nut M10	40	29.5	L243

Ignition system, starter motor

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Driving shaft position sensor / flywheel cover	2	Taptite screw M6 x 16	11	8.1	
Flywheel cover / generator	3	Screw T.C.E.I. M6 x 40	11	8.1	L243
Magnetic gear - unidirectional case					L648
Free wheel flange	3	Screw T.C.E.I. M8 x 16	30	22.1	L648
Magnetic gear cone					L648
Ignition / driving shaft	1	Screw T.C.E.I. M6 x 30	130	95.8	L648
Ignition device cover / MS casing	12	Screw T.C.E.I. M6 x 35	11	8.1	
Ignition device cover	1	Plug screw M24 x 1.5	3	2.2	
Camshaft position sensor / head "1" (front)	2	Taptite screw M5 x 12	4	2.9	L243
Starter motor	2	Screw T.C.E.I. M6 x 30	11	8.1	

Clutch cover, coolant pump

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Coolant pump	1	Impeller	manual tightening		
Clutch cover	1	Oil pressure switch M10 x 1	15	11.1	L243
Coolant pump casing	1	Screw T.C.E.I. M6 x 25	11	8.1	
Coolant pump casing	3	Screw T.C.E.I. M6 x 55	11	8.1	L243
Clutch cover	11	Screw T.C.E.I. M6 x 35	11	8.1	
Clutch cover	3	Screw T.C.E.I. M8 x 40	19	14.0	
Clutch cover	1	Screw T.C.E.I. M8 x 65	19	14.0	

Rear Fork

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Fork pin metal ring	1	M30 x 1.5	12	8.8	
Fork pin lock ring	1	M30 x 1.5	60	44.2	
Fork pin nut	1	M20 x 1.5	90	66.3	
Caliper mount locking pin	1	M12	50	36.8	L243
Chain tightener screw and nut	1+1	M8	manual tightening		
Brake pipe grommet fastening	2	M5	4	2.9	
Chain case fastening	2	M5	4	2.9	
Chain tightener shoe fastening	2	M5	2	1.5	
Rear mudguard fastening	2+2	M5	3	2.2	

Side Stand

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
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Fastening of stand plate to frame	2	M10	40	29.5	
Stand fastening pin	1	M10 x 1.25	10	7.4	
Switch fastening screw	1	M6	10	7.4	
Lock nut	1	M10 x 1.25	25	18.4	

Front Suspension

Front fork

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Fastening of upper plate on fork tubes	1+1	M8	25	18.4	
Fastening of upper plate on fork tubes	2+2	M8	25	18.4	
Steering head metal ring	1	M35 x 1	40	29.5	
Steering head lock ring	1	M35 x 1	manual tight plus 90 degrees		
Upper plate fastening bush	1	M29 x 1	80	59.0	
Lower plate travel-end bush fastening screw	1+1	M8	22	16.2	
Closing of fork / wheel pin clamps	2+2	M8	22	16.2	

Steering Shock Absorbers

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Fastening of shock absorb collar on dashboard/front fairing mount	1	M6	12	8.8	
Tube end lock nut	1	M8	12	8.8	
Screw fastening collar on shock absorber tube on lower plate	1	M5	5	3.7	
Fastening of shock absorber tube on lower plate	1	M6	12	8.8	

Rear Suspension

Shock absorber

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Fastening of shock absorber to frame	1	M10	50	36.8	

Linkage

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Fastening of single connecting rod to frame	1	M10	50	36.8	
Fastening of single/double connecting rod to frame	1	M10	50	36.8	
Fastening of double connecting rod fork	1	M10	50	36.8	
Fastening of double connecting rod / shock absorber	1	M10	50	36.8	

Electrical System

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Fastening of battery clamping bracket	1	M6	12	8.8	
Fastening of horn mount	1	M8 x 1.25	25	18.4	
Fastening of speed sensor on rear brake caliper	1	M6	12	8.8	

mount					
Fastening of rear indicators	2	M6	2-3	1.5-2.2	
Fastening of electronic unit protection case	3	SWP3.9	1	0.7	
Fastening of voltage regulator	2	M6	12	8.8	
Fastening of front indicators	2	M6	2-3	1.5-2.2	
Fastening of coil to mount	8	M5	5	3.7	
Fastening of rear light to rear fairing end	2	SWP3.9	1.5	1.1	
Fastening of headlight to front fairing	3	SWP3.9	1.5	1.1	
Fastening of headlight to front fairing	1	M6	4	2.9	
Fastening of relay box to dashboard/front fairing mount	2	M6	4	2.9	
Fastening of fuse box to dashboard/front fairing	2	M6	3	2.2	
Fastening of earth to frame	1	M6	12	8.8	

Air Filter Casing

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Fastening of air filter casing cover	7	M5	4	2.9	
Fastening of air filter casing to throttle body	6	M6	8	5.9	
Fastening of intake conveyors	4	SWP3.9	1	0.7	
Fastening of air sensor support plate	1	SWP3.9	1.5	1.1	

Front Wheel

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Wheel pin nut	1	M25 x 1.5	80	59.0	

Rear Wheel

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Fastening of sprocket on sprocket holder	5	M10	50	36.8	
Wheel pin nut	1	M25 x 1.5	120	88.4	

Cooling System

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Thermal switch on 3-way manifold	1	M14 x 1.5	30	22.1	L572
Fastening of electrofan mount	2+2	M6	6	4.4	
Fastening of electrofan motor to mount	3+3	M4	2	1.5	L243
Radiator coolant drain screws	1+1	M6	10	7.4	L572
Fastening of expansive tank to coils mount	2	M6	10	7.4	
Fastening of expansion tank cap	1	M28 x 3	manual tightening		
Fastening of coolant filler neck	1	M6	10	7.4	

Braking Systems

Front system

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
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Fastening of right and left brake caliper	2+2	M10 x 1.25	50	36.8	
Fastening of brake fluid tank	1	M6	5	3.7	
Fastening of brake fluid tank bracket	1	M6	12	8.8	
Fastening of brake discs	6+6	M8	30	22.1	L243
Fastening of front brake pipe	1	M10 x 1	20	14.7	
Fastening of brake fluid bleeder	3	M10 x 1	10	7.4	

Rear system

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Brake caliper fastening	2	M8	25	18.4	
Brake lever pin	1	M8	15	11.1	L243
Fastening of brake fluid tank	1	M5	1	0.7	
Brake pump fastening	2	M6	12	8.8	
Brake rod lock nut	1	M6	manual tightening		
Brake disc fastening	5	M8	30	22.1	L243
Brake pipe fastening	1	M10 x 1	20	14.7	

Clutch Control

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Fastening of clutch fluid pipe	1	M10 x 1	20	14.7	
Fastening of fluid tank bracket	1	M6	12	8.8	
Fastening of clutch fluid tank on mount	1	M5	3	2.2	
Clutch fluid bleeder	1	M10 x 1	10	7.4	

Exhaust System

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Fastening of exhaust pipes to engine	3+3	M8	25	18.4	
Exhaust silencer fastening	1	M8	25	18.4	

Fuel Tank

Fuel pump flange

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Fuel return fitting	1	M6	6	4.4	L243
Fastening of pump mount to flange	3	M5	4	2.9	
Fastening of electric terminals on flange	2	M5	5	3.7	
Closing of fuel return	1	M6	10	7.4	L243
Fastening of fuel delivery pipe on flange	1	M12 x 1.5	22	16.2	
Petrol level sensor on pump mount	2	SWP 2.9 x 12	1.5	1.1	
Fastening of fuel pump cables on flange	2	M6	10	7.4	

Tank

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Fastening of cap on tank	3	M5	5	3.7	

Fastening of fuel pump flange on tank	8	M5	7	5.2	
Fastening of tank front on frame	2	M6	12	8.8	
Fastening of tank rear on mount	1	M6	12	8.8	

Engine Oil Tank and Radiator

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Tank upper fastenings screw	1	M6	10	7.4	
Tank fastening nuts	2	M6	10	7.4	
Oil filter	1	M20 x 1.5	30	22.1	
Oil drain plug	1	M8	15	11.1	
Oil level pipe fittings	2	M10 x 1	20	14.7	
Radiator astening screws	3	M6	12	8.8	

Frame / Fairings

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Radiator spoiler fastening	3	M6	5	3.7	
Fastening of number plate holder to rear mudguard extension	2	M5	2	1.5	
Fastening of reflector holder to number plate holder	2	M5	6	4.4	
Front mudguard fastening	4	M5	5	3.7	
Rearview mirror fastening screws	1+1	M6	8	5.9	
Fastening of rearview mirror mounts and front fairing to mount	4	M6	5	3.7	
Lower fastening of front fairing to conveyors	2	M5	4	2.9	
Lower fastening of front fairing (on upper part)	2	M5	4	2.9	
Fastening of conveyor covers	14	SWP 3.9	2	1.5	
Fastening of conveyors to frame and mount	6	M6	5	3.7	
Fastening of side fairing upper panel	2+2	M5	fr1	0.7	
Fastening of side fairing upper panel	2+2	M5	rear2	1.4	
Fastening of dashboards upper protection moulding	4	M5	2	1.5	
Fastening of lower fairing to frame	4	M6	5	3.7	
Fastening of silencer protection to lower fairing	2	M6	5	3.7	
Fastening of sides	4	M6	5	3.7	
Fastening of saddle support bush and lower moulded cover	2	M6	5	3.7	
Fastening of saddle support lower moulded cover	4	M6	4	2.9	
Fastening of rear fairing to saddle support lower molded cover	6	M5	2	1.5	
Fastening of rear fairing end to rear fairing	2+2	M5	upper 5	3.7	
Fastening of rear fairing end to rear fairing	2+2	M5	lower 3	2.2	

Fastening of rear fairing / passenger grab strap	2	M6	12	8.8	
Fastening of internal fairing and side fairing	8	SWP 2.9 x 12	1	0.7	
Fastening of dashboard to mount	3	M6	5	3.7	
Fastening of rider's saddle	2	M6	12	8.8	
Fastening of rider's saddle front mount	4	M6	12	8.8	
Fastening of passenger seat lock	2	M6	10	7.4	
Fastening of passenger seat lock key-operated control	2	M6	12	8.8	
Fastening of passenger footrest supports	4	M8	25	18.4	
Fastening of rider's footrest supports	4	M8	25	18.4	
Fastening of rider's footrest protection	4	M5	6	4.4	
Fastening of rear mudguard	4	M5	6	4.4	
Fastening of saddle support	4	M10	50	36.8	
Fastening of coil mounts	4	M6	12	8.8	

Right/Left Handlebars and Controls

Description	Qty	Screw/ Nut	Nm	ft-lb	Note
Fastening of anti-vibration weights	2	M6	12	8.8	
Anti-vibration weights metal ring	2	M18 x 1	35	25.8	
Fastening of right/left handlebars to the fork	2	M8	25	18.4	
Handlebars lock screw	2	M6	12	8.8	
Fastening of left dimmer switch	1	M5	1.5	1.1	
Fastening of right dimmer switch	1	M4	1	0.7	
Fastening of front brake lever	2	M5	8	5.9	
Fastening of clutch lever	2	M5	8	5.9	

Note: L stands for Loctite Threadlocker. Use the appropriate type listed.