

Triumph Sprint ST 2005 (1050cc) Torque Wrench Settings

Cylinder Head Area

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Cam cover to cylinder head	10	89		
Secondary air injection valve covers to cam cover	9	80		
Cam chain tensioner to crankcase	9	80		
Cam chain tensioner centre bolt	23	204	17	
Camshaft bearing caps and camshaft bearing ladder to head	See section 3			Lubricate Threads
Camshaft sprocket to camshaft	15	133	11	Use new fixings
Cam chain tensioner blade to crankcase	18	159	13	Use new fixings
Cam chain top pad to head	10	89		Use new fixings
Cylinder head to crankcase (M6 screws)	10	89		
Cylinder head to crankcase bolts	See section 3			
Sound suppression bolt in head	10	89		
Oil feed pipe	25	221	18	
Spark plug to cylinder head	18	159	13	

Clutch

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Clutch cover to crankcase	9	80		
Clutch centre nut	105		77	
Clutch pressure plate to centre	10	89		
Clutch lever to handlebar	15	133	11	

Balancer, Crankshaft and Crankcase

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Crankcase lower to upper (M8 fixings)	See section 5			
Crankcase lower to upper (M6 fixings)	See section 5			
Connecting rod big end nut	See section 5			
Balancer retaining bolt	60		44	Apply Three-bond 1305 to the threads
Big end bearings	See section 6			
Sprag clutch to crankshaft	54		40	
Starter drive cover to crankcase	10	89		

Engine Covers

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Clutch cover to crankcase	9	80		
Clutch cover sound suppression plate to cover	9	80		
Sprocket cover to crankcase	9	80		
Water outlet cover	9	80		
Alternator cover to crankcase	9	80		
Crank cover to crankcase	9	80		
Starter cover to crank cover	9	80		
Plug, crank cover	18	159	13	

Transmission

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Outlet sprocket to output shaft	132		97	Use new tab washers
Detent wheel to selector drum	12	106		Use a new fixing
Detent arm bolt	12	106		Use a new fixing
Selector drum bearing retaining screw	12	106		Use a new fixing
Selector shaft retainer	12	106		Use a new fixing
Spring abutment bolt	23	204	17	
Neutral switch	10	89		
Gear pedal pinch bolt	9	80		
Gear pedal pivot bolt	22	195	16	

Lubrication System

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Sump to crankcase	12	106		
Sump drain plug to sump	25	221	18	Use a new washer
Oil pressure relief valve to crankcase	15	133	11	Apply Three-bond 1305 to the threads
Low oil pressure warning light switch to crankcase	13	115		Use new washers
Oil filter to adapter	10	89		
Oil cooler pipe union bolts	10	89		
Oil cooler to mountings	9	80		
Oil pump to crankcase	13.7	121	10	
Oil pump drive sprocket to pump shaft	15	133	11	
Oil feed pipe union to head	25	221	18	
Transmission oil feed pipes to crankcase	8	71		
Oil cooler to radiator	9	80		

Final Drive

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Rear sprocket to cush drive	33		24	
Chain guard bolts	4.5	40		
Chain rubbing strip to swinging arm	4.5	40		
Cush drive housing to shaft	146		108	Use a new fixing

Cooling system

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Water pump to crankcase	10	89		
Radiator to frame	9	80		
Water elbow to head	12	106		
Thermostat housing to head	12	106		
Fan shroud to radiator	2.5	22		
Expansion tank to frame	4	35		

Fuel System, Exhaust System and Airbox

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Fuel tank to frame (rear fixing)	9	80		
Fuel cap to fuel tank	3	27		
Fuel pump mounting plate to fuel tank	9	80		
Throttle body transition piece to cylinder head	12	106		
Fuel rail to bracket	6	53		
Throttle potentiometer to throttle body	3.5	31		
Exhaust downpipe to cylinder head	19	168	14	See section 10
Airbox to bracket	5	44		
Airbox upper to lower section	4	35		
Exhaust downpipe to frame	15	133	11	
Silencer mounting bracket to frame	27	239	20	
Exhaust clamp to downpipe	22	195	16	
Fuel sensor to fuel tank	5	44		
Fuel tank brackets to frame (front)	15	133	11	
Fuel tank brackets to frame (rear)	6	53		

Rear Suspension

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Swinging arm spindle bolt	60		44	
Chain rubbing strip bolts	4.5	40		
Rear hub / eccentric adjuster clamp bolt	55		41	
Chain guard bolts	4.5	40		
Rear suspension unit upper mounting bolt	48		35	
Rear suspension unit lower mounting bolt / drop to drag link pivot	48		35	
Drag link pivot at frame	48		35	
Drop links to swinging arm	48		35	
Swinging arm end-float adjuster	15	133	11	
Swinging arm lateral adjuster lock nut	30		22	

Front Suspension

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Upper yoke pinch bolt	20	177	15	
Lower yoke pinch bolt	20	177	15	
Fork top cap to inner tube	25	221	18	
Upper yoke centre nut	65		48	
Damping cylinder bolt	24	212	18	
Handlebar to top yoke	26	230	19	
Handlebar clamp bolt	26	230	19	
Handlebar end weight	3	230	19	

Wheels

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Front wheel spindle / axle bolt	61		45	
Front wheel spindle pinch bolts	20	177	15	
Rear wheel to stub axle	146		108	

Front Brakes

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Front brake caliper to fork	40		30	
Front brake pad retaining pin	19	168	14	
Front brake caliper bleed screw	6	53		
Front brake hose to caliper	25	221	18	
Front brake master cylinder to handlebar	15	133	11	
Front brake master cylinder reservoir to mounting	9	80		
Front brake hose to master cylinder	25	221	18	
Front brake disc to wheel	22	195	16	Use new fixings

Rear Brakes

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Rear brake caliper to carrier	40		30	
Rear brake pad retaining pin	19	168	14	
Rear brake caliper bleed screw	6	53		
Rear brake hose to caliper	25	221	18	
Rear brake master cylinder to frame	20	177	15	Use new fixings
Rear brake master cylinder reservoir to battery box	3	27		
Rear brake hose to master cylinder (brake light switch)	15	133	11	
Rear brake disc to axle shaft	22	195	16	Use new fixings
Rear brake pedal pivot bolt	22	195	16	

ABS System

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Front wheel speed sensor to fork leg	9	80		
Rear wheel speed sensor to caliper carrier	9	80		
Front pulser ring to front wheel hub	5	44		
Rear pulser ring to rear brake disc	5	44		
ABS modulator to mounting bracket	9	80		
ABS modulator mounting bracket to frame	20	177	15	Use new fixings
Brake line unions to ABS modulator	17	150	13	

Footrests, Control Plates and Engine Mountings

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Upper crankcase to frame	See section 9			
Lower crankcase to frame	See section 9			
Cylinder head to frame	See section 9			
Control plate to frame, left hand	27	239	20	Use new fixings
Control plate and master cylinder to frame, right hand	27	239	20	Use new fixings
Rear footrest hanger to frame	27	239	20	
Side stand mounting bracket	40		30	
Side stand pivot	20	177	15	

Electrical

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Alternator rotor to crankshaft	105		77	
Alternator stator to cover	12	106		
Alternator regulator to frame	7	62		
Starter motor to crankcase	10	89		
Alternator cover to crankcase	9	80		

Bodywork

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Front mudguard to fork - front section	3	27		
Front mudguard to fork - rear section	7	62		
Rear side panels to brackets	3	27		
Cockpit to brackets / side panels	5	44		
Infill panels to frame	3	27		
Infill panels to cockpit	3	27		
Mirrors to cockpit	9	80		
Windscreen to cockpit subframe	1.5	13		
Cockpit subframe to frame	28	248	21	
Rear mudguard / heat shield bracket to frame	18	159	13	
Rear mudguard end section to bracket	9	80		

Accessories - Pannier Kit - A9508063

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Mudguard to lugs on rear light unit (raised fixing holes)	9	80		
Splash guard to underside of rear mudguard	3	27		
Rear slide assembly to rear light unit bracket	18	159	13	
Intermediate brackets (behind bodywork) to rear subframe (M8 x 25 cap screws)	27	239	20	
Rear side panels to brackets	3	27		
Locator brackets & footrest brackets to subframe (M8 x 35 bolts)	27	239	20	
Pannier rails to grab rail (M6 x 20 capscrews)	9	80		
Pannier rails to intermediate brackets (M6 x 40 capscrews)	9	80		
Seat fixings	3	27		

Accessories - Rack Kit - A9508044

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Grab rail to sub-frame	27	239	20	
Rack to grab rail (M6 x 14 cap screws, silver)	14	124	10	
Slide plate to rack (M6 x 16 cap screws, black)	9	80		
Sliding carriage to slide plate (M5 x 35 cap screws with locknuts)	8	71		

Accessories - Pannier Infill Kit - A9508035 & Top Box Infill Kit - A9508038

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Pannier/Topbox infill panel holding screw	3	27		

Accessories - Heated Grips Kit - A9638007

Application	Torque			Notes
	Nm	lbf.in	lbf.ft	
Handlebar switch housings	4	35		
Twist grip guide	6	53		
Front brake master cylinder to handlebar	15	133	11	
Handlebar end weight	3	230	19	
Fairing infill panel and facia infill	5	44		