

General Information

Wheels

Application	Torque (Nm)	Notes
Front wheel spindle/axle bolt	65	
Front wheel spindle pinch bolts	22	
Rear wheel spindle	110	
Chain adjuster lock nut	15	
Rear sprocket to cush drive	55	Replace fixing(s) if removed

Front Brakes

Application	Torque (Nm)	Notes
Front brake caliper to fork	21	
Front brake pad retaining pin	18	
Front brake pad retaining pin plug	3	
Front brake caliper bleed screw	6	
Front brake hose to caliper	25	Replace sealing washer(s) if removed
Front brake master cylinder to handlebar	12	
Front brake hose to master cylinder	25	Replace sealing washer(s) if removed
Front brake disc to wheel	22	Replace fixing(s) if removed
Brake lever pivot bolt	1	
Brake lever pivot bolt lock nut	6	
Master cylinder brake hose clamp to fork leg	4	
Brake hose wire guide	6	
Front brake light switch Tiger XR and Tiger XC - All Models	2	

Rear Brakes

Application	Torque (Nm)	Notes
Rear brake caliper to carrier	22	
Rear brake caliper sliding bolt	27	
Rear brake pad retaining pin	18	
Rear brake pad retaining pin plug	3	
Rear brake caliper bleed screw	6	
Rear brake hose to caliper	25	Replace sealing washer(s) if removed
Rear brake master cylinder to frame	16	
Rear brake master cylinder reservoir to mounting	7	Replace fixing(s) if removed
Rear brake master cylinder push rod lock nut	18	
Rear brake light switch Tiger 800 and Tiger 800XC	15	
Rear brake hose to master cylinder Tiger XR and Tiger XC - All Models	25	Replace sealing washer(s) if removed
Brake pedal pivot bolt	22	Replace fixing(s) if removed
Brake hose P-clip bolt	6	
Rear brake disc to wheel	22	Replace fixing(s) if removed

General Information

ABS System

Application	Torque (Nm)	Notes
ABS module to bracket	9	Replace fixing(s) if removed
ABS bracket to frame	9	Replace fixing(s) if removed
ABS pulser ring to brake disc	5	Replace fixing(s) if removed
ABS sensor to bracket	9	Replace fixing(s) if removed
ABS lines to modulator	15	
ABS hard line to front brake hose	17	

Frame, Footrests, Control Plates and Engine Mountings

Application	Torque (Nm)	Notes
Lower crankcase to frame	48	Refer to section 9
Cylinder head to frame	48	Refer to section 9
Heel guard to frame	12	
Side stand mounting bracket	45	
Side stand pivot bolt	20	
Side stand pivot bolt	45	
Side stand switch	7	Replace fixing(s) if removed
Seat lock to frame	5	
Front subframe	15	
Lower rear engine mounting frame adjuster	3	
Engine bars to engine	20	If fitted
Centre bar to engine bar	8	If fitted
Centre stand to frame	45	If fitted
Centre stand up stop bracket	18	If fitted
Centre stand S-bracket	9	If fitted

Electrical

Application	Torque (Nm)	Notes
Alternator rotor to crankshaft - all models except Tiger XR _T and Tiger XCA	120	
Alternator rotor to crankshaft - Tiger XR _T and Tiger XCA only	130	
Alternator stator to cover	12	Replace fixing(s) if removed
Alternator regulator/rectifier to bracket	9	
Alternator cover	10	
Battery terminal fixings	4.5	
Starter motor to crankcase	10	
Starter motor power lead connection	3	
Starter motor solenoid lead connection	5	
Spark plug to cylinder head	12	
Horn	18	
Immobiliser ECM	5	
Ignition switch	12	Replace fixing(s) if removed
Instrument assembly- Tiger 800 and Tiger 800XC	2	
Instrument assembly- Tiger XR and Tiger XC - All Models	3	
Headlight	3.5	
Headlight bezel	3	
Rear light	4	
Front and rear indicator	3	
Negative battery lead to upper crankcase	10	
Auxiliary power socket fixing	2	
Main harness multiplug bracket	6	
Heated grip switch to bracket	3	
Ambient air pressure sensor (instruments display) Tiger XR and Tiger XC - All Models	5	
Fog light bracket to cockpit panel/front subframe	9	
Fog light shroud to bracket	6	
Fog light to shroud	3	

General Information

Bodywork

Application	Torque (Nm)	Notes
Mudguard extension bracket	9	Replace fixing(s) if removed
Front mudguard to forks - Tiger 800 and Tiger XR - All Models	6	Replace fixing(s) if removed
Front mudguard to forks - lower - Tiger 800XC	6	Replace fixing(s) if removed
Front mudguard to forks - upper - Tiger 800XC	6	Replace fixing(s) if removed
Front mudguard to forks - lower - Tiger XC - All Models	3	Replace fixing(s) if removed
Front mudguard to forks - upper - Tiger XC - All Models	3	Replace fixing(s) if removed
Front mudguard to forks - extension - Tiger 800XC	9	
Handguard bracket to lever pivot bolt	1	
Handguard to bracket	9	
Handguard to handlebar spacer	6	Replace fixing(s) if removed
Sump guard nuts	6	
Sump guard rubber to sump	3	
Sump guard Bracket	15	
Sump guard front bolts	15	Replace fixing(s) if removed - All Models except Tiger XRx-LRH, Tiger XCx, Tiger XCx-LRH and Tiger XCA
Sump guard front bolts	9	Replace fixing(s) if removed - Tiger XRx-LRH, Tiger XCx, Tiger XCx-LRH and Tiger XCA
Engine protection bars to engine	20	Tiger XCx and Tiger XCA
Centre bar to engine dresser bar	8	Replace fixing(s) if removed - Tiger XCx and Tiger XCA
Screen fixings to brackets	3	
Screen bracket (T30 fixing)	4	
Screen bracket (cast, at front)	5	
Centre panel (Tiger 800) or beak support moulding (Tiger 800XC) to subframe (nut and screw)	5	
Beak to beak support moulding	3	
Beak support moulding to subframe	5	
Cockpit infill panels to cockpit moulding	3	
Ignition switch cover	5	
Fuel tank panel, front	3	
Lower radiator panel	3	
Upper radiator panel	5	
Radiator infill panel lower fixing	6	Replace fixing(s) if removed
Radiator infill panel upper fixing	3	Replace fixing(s) if removed

Bodywork (Continued)

Application	Torque (Nm)	Notes
Battery tray	6	Replace fixing(s) if removed
Rear mudguard upper fixing	3	
Rear mudguard lower fixing	5	Replace fixing(s) if removed
Rear mudguard splash cover	5	
Rear panel M6 bolts	5	
Rear panel M8 bolts	20	
Grab rail to subframe bolts	20	
Rear rack	3	
Front seat bridge	5	
Fuel tank infill	3	
Rear seat bracket lower fixing	5	
Rear seat bracket upper fixing	5	
Screen bracket (pressed, at side)	3	
Pannier mounting hook nut	20	
Pannier third mounting to frame	12	
Pannier pivot nut	20	
Pannier link cable locking nut	2.5	
Right hand Expedition pannier mounting frame's upper M8 fixings	20	Replace locknut(s) if removed
Right hand Expedition pannier mounting frame's lower M8 fixing	20	
Left hand Expedition pannier mounting frame's upper M8 fixing	20	Replace locknut(s) if removed
Left hand Expedition pannier mounting frame's lower M8 fixing	20	
Left hand Expedition pannier mounting frame's M6 fixings	12	
Expedition pannier frame link bar	12	Replace locknut(s) if removed
Locking mechanism to Expedition pannier mounting frames	20	
Lower mounting bobbins to Expedition pannier mounting frames	9	
Saree guard to frame	12	

General Information

Torque Wrench Settings

Cylinder Head Area

Application	Torque (Nm)	Notes
Camshaft cover to cylinder head	10	
Camshaft drive chain tensioner to head	9	
Camshaft bearing ladder to head	*	Refer to section 3
Camshaft sprocket to camshaft up to engine number 602077	10	Replace fixing(s) if removed
Camshaft sprocket to camshaft from engine number 602078	22	Replace fixing(s) if removed
Camshaft drive chain rubbing blade to crankcase	9	Replace fixing(s) if removed
Camshaft drive chain top pad to cylinder head	*	Refer to section 3
Cylinder head to crankcase (M6 screws)	10	Replace fixing(s) if removed
Cylinder head to crankcase bolts	*	Refer to section 3
Camshaft cap and ladder to cylinder head	*	Refer to section 3
Cylinder head dry seal plug	22	Replace fixing(s) if removed Apply ThreeBond 1305 to the threads
Sound suppression bolt in head	12	
Spark plugs	12	
Cylinder head exhaust stud	10	Replace fixing(s) if removed
Heated seat's electronic control module brackets to cam cover - Tiger XR† and Tiger XCA	5	Replace fixing(s) if removed

Clutch

Application	Torque (Nm)	Notes
Clutch cover to crankcase (28 mm bolts)	12	
Clutch cover to crankcase (35 mm bolts)	12	
Clutch centre nut	98	Replace fixing(s) if removed
Clutch pressure plate to centre drum	10	
Clutch lever clamp bolts	12	
Clutch lever nut	3.5	
Clutch cable adjuster bracket to crankcase	12	
Switch housing screws	2.5	
Clutch cover protector	5	
Clutch lever switch Tiger XR and Tiger XC - All Models	2	

Crankshaft, Crankcase and Sprag

Application	Torque (Nm)	Notes
Crankcase upper to lower (M8 fixings)	*	Refer to section 5
Crankcase upper to lower (M6 fixings)	*	Refer to section 5
Crankcase dry seal plug	22	Replace fixing(s) if removed
Breather cover to crankcase	10	Replace fixing(s) if removed
Connecting rod big end nut	*	Refer to section 5
Camshaft drive sprocket gear to crankshaft	27	Replace fixing(s) if removed
Sprag clutch to alternator rotor	*	Refer to section 7

Engine Covers

Application	Torque (Nm)	Notes
Front sprocket cover	9	
Alternator cover (25 mm bolts) to crankcase	10	
Alternator cover (35 mm bolts) to crankcase	10	
Wire retainer on alternator cover	6	Replace fixing(s) if removed
Right hand crankcase cover	10	
Balancer cover to crankcase	8	

Transmission

Application	Torque (Nm)	Notes
Output sprocket to output shaft	85	Use new tab washers
Detent wheel to selector drum	12	Replace fixing(s) if removed
Detent arm bolt	12	Replace fixing(s) if removed
Input shaft bearing carrier/retainer	12	Replace fixing(s) if removed
Selector shaft retainer	12	Replace fixing(s) if removed
Spring abutment bolt	15	Replace fixing(s) if removed
Gear position sensor	5	
Gear pedal crank pinch bolt	9	
Gear pedal pivot bolt	22	Replace fixing(s) if removed
Gear change rod adjuster nuts	6	
Sprag housing to rotor	16	

General Information

Lubrication System

Application	Torque (Nm)	Notes
Sump to crankcase	12	
Sump drain plug to sump	25	Replace sealing washer(s) if removed
Oil pressure relief valve to crankcase	15	Apply ThreeBond 1305 to the threads
Low oil pressure warning light switch to crankcase	13	Replace sealing washer(s) if removed
Oil filter to adaptor	10	
Oil filter adaptor	16	Replace fixing(s) if removed
Heat exchanger to crankcase	59	Replace sealing washer(s) if removed
Oil pump drive chain retainer plate	12	Replace fixing(s) if removed
Oil pump to crankcase	12	Replace fixing(s) if removed
Oil pump drive sprocket to pump shaft	12	Apply ThreeBond 1374 to the threads
Oil pump rotor cover to pump body bolts	12	
Oil pump pick up pipe	12	Replace fixing(s) if removed
Oil transfer pipe	12	Replace fixing(s) if removed
Water pump cover to oil pump body bolts	12	
Transmission oil feed pipes to crankcase	8	Replace fixing(s) if removed
Breather drain tube	9	Replace fixing(s) if removed

Final Drive

Application	Torque (Nm)	Notes
Rear sprocket to cush drive	55	
Chain guard bolts	9	
Chain rubbing strip to swinging arm	9	

Cooling System

Application	Torque (Nm)	Notes
Radiator to frame	6	
Coolant by-pass to cylinder head	15	
Thermostat housing to cylinder head	9	
Water elbow to crankcase (left hand fixing only)	9	
Water elbow to crankcase (right hand and upper fixing only)	8	
Fan shroud to radiator	2.5	
Water temperature sensor	18	Apply ThreeBond 1374 to the threads
Radiator lower bracket to radiator	6	
Radiator lower bracket to water outlet bracket	6	
Expansion tank to frame	3	
Expansion tank cover to frame	3	
Radiator bleed screw	1.5	Tiger 800 and Tiger 800XC
Top hose bleed screw	1	Tiger 800 and Tiger 800XC
Water pump outlet pipe	12	Replace fixing(s) if removed
Water pump inlet pipe	12	Replace fixing(s) if removed
Coolant hose clips	2	Tiger 800 and Tiger 800XC

General Information

Fuel System, Exhaust System and Airbox

Application	Torque (Nm)	Notes
Fuel tank to frame (rear fixing)	12	
Fuel cap to fuel tank	4	
Fuel pump mounting plate to fuel tank	9	
Throttle body transition piece to cylinder head	8	Replace fixing(s) if removed
Throttle body adaptor clip	1.5	
Fuel rail to throttle body	3.5	
Throttle position sensor	2	Tiger 800 and Tiger 800XC
Idle speed control stepper motor	3.5	Tiger 800 and Tiger 800XC
Throttle cable bracket to throttle body	3.5	Tiger 800 and Tiger 800XC
Throttle cable guide screws	3	Tiger 800 and Tiger 800XC
Exhaust header to cylinder head	*	Refer to section 10
Exhaust header to frame	19	
Silencer heat shield	5	Torque every service
Silencer to frame	15	
Silencer rear finisher	5	Replace fixing(s) if removed
Silencer front finisher	5	Replace fixing(s) if removed
Silencer clamp to intermediate pipe	10	
Oxygen sensor	25	Apply anti-seize compound to threads
Catalytic converter heat shield	5	
Air filter cover to housing	1.5	
Airbox to breather housing	9	Replace fixing(s) if removed
Air filter to housing	1	
Air intake trumpet to airbox	6	
Air temperature sensor	1.5	
Manifold air pressure (MAP) sensor	1.5	
Ambient air pressure sensor	6	
Fall detection switch	3	Replace fixing(s) if removed
Crankshaft position sensor up to engine number 612713	4	Replace fixing(s) if removed
Crankshaft position sensor from engine number 612714	6	Replace fixing(s) if removed
Road speed sensor (models without ABS)	9	Replace fixing(s) if removed
Evaporative canister to bracket	5.5	
Evaporative bracket to frame	9	
Gear position sensor	5	
Air intake duct Tiger XR and Tiger XC - All Models	6	Replace fixing(s) if removed
Secondary air injection reed cover	9	

Rear Suspension

Application	Torque (Nm)	Notes
Swinging arm spindle nut	110	Replace fixing(s) if removed (lock nut)
Chain rubbing strip to swinging arm	9	
Rear suspension unit upper mounting bolt	48	
Rear suspension unit lower mounting bolt to drop link	80	
Rear suspension reservoir - Tiger 800XC	3	
Rear suspension reservoir - Tiger XC - All Models	1.5	
Drag link pivot at frame	80	
Drop links to swinging arm	80	
Chain guard (upper)	9	
Chain guard (lower)	7	

Front Suspension

Application	Torque (Nm)	Notes
Upper yoke pinch bolt	20	
Lower yoke pinch bolt	20	
Upper yoke centre nut	90	
Fork top cap to damper rod lock nut - Tiger XC - All Models	25	
Fork top cap Tiger 800, Tiger 800XC and Tiger XR - All Models	35	
Fork top cap Tiger XC - All Models	40	
Damping cylinder bolt Tiger 800, Tiger 800XC and Tiger XR - All Models	20	Replace sealing washer(s) if removed
Damping cylinder bolt Tiger XC - All Models	25	Replace sealing washer(s) if removed
Damping rod to top cap - Tiger 800, Tiger 800XC and Tiger XR - All Models	20	
Handlebar clamp riser to upper yoke (10 mm bolt)	35	
Handlebar upper clamp to lower clamp (8 mm bolt)	26	Lubricate threads with engine oil
Handlebar end weights	5	
Switch housing fixings	2.5	
Mirror	25	
Left hand heated grip	3	If fitted
Auxiliary switch mounting brackets to clutch/brake lever clamps	3	if fitted
Auxiliary switch to mounting brackets	3	if fitted
Satellite navigation mounting bracket to handlebar	5	if fitted
Satellite navigation mount plate pivot bolt	5	if fitted