

## Frame tightening torque values

Description	Threading	Torque (Nm)		Notes
		Supersport	Supersport S	
ACCESSORIES				
LH rear-view mirror fastener	M6x1	10		
RH rear-view mirror fastener	M10x1.25-LH	40		
STAND				
Screw retaining side stand plate and exhaust/fairing support bracket to engine	M10x1.5	42*		LOCK 2
Stand sensor fastener	M6x1	5		Pre-applied threadlocker
Side stand rotation pin fastener	M8x1.25	24		GREASE A
Nut securing stand to stand plate	M8x1.25	24		
CHAIN / SPROCKET				
Sprocket fastener	M25x1.5	186.0*		GREASE B
Sprocket cover fastener	M6x1	6		LOCK 2
LIGHTS				
Headlight to subframe central fastener	M5x0.8	5		
Tail light support to rear subframe retaining screws	ST5	3		
Rear turn indicators to spacers retainer	M5x0.8	3		
INSTRUMENTS				
instrument panel to windscreen adjustment support fastener	M5x0.8	5		
FRONT FORK				
Steering bearing ring nut	M35x1	35*		GREASE B
Steering head to fork legs fastener	M8x1.25	24*		
Steering head central locking screw	M8x1.25	24*		GREASE B

X Fix hose clamp 75811201A	M6x1	6	Pre-applied threadlocker
Steering limit stop adjuster lock nut	M8x1.25	18	LOCK 2
Front brake cable guide to bottom yoke fastener	M6x1	10	Pre-applied threadlocker
Splash guard to bottom yoke fastener	M5x0.8	5	
Bottom yoke locking screws	M8x1.25	22*	GREASE B
ABS cable ring retainer onto Marzocchi fork bottom end - BASE VERSION ONLY	M6x1	10	Pre-applied threadlocker
ABS cable ring retainer onto Ohlins S fork bottom end - S VERSION ONLY	M6x1	10	
Marzocchi fork bottom end cover retainer - BASE VERSION ONLY	M6x1	10*	Pre-applied threadlocker
OHLINS fork bottom end locking screws - S VERSION ONLY	M8x1.25	19*	GREASE B
ELECTRICAL / ELECTRONIC SYSTEM			
Ignition switch cover cap nut fastener	M6x1	7	
Screw securing ignition switch to frame	M6x1	> 12*	Pre-applied threadlocker
Fastener securing cables to remote control switch	M6x1	5	
Ground cable on engine fastener	M6x1	10	
Nut securing starter motor cable	M6x1	5	
Screw retaining battery negative and positive poles	M6x1	2.5	
Regulator to battery mount fastener	M6x1	4	
Battery plate fastener 82712941A	M5x0.8	5	
Upper battery plate to positive pole cover fastener	M5x0	5	
Screw securing fuse support bracket to electric component support	4	2	
Battery mount to radiator support and horizontal head fastener	M6x1	8	
Battery mount to radiator retaining screw fastener	M8x1.25	5	
Horn to bracket fastener	M8x1.25	22	

Horn bracket to radiator fastener	M5x0.8	5	
Coil to bracket fastener on protruding nuts	M5x0.8	6	
Fastener for coils+nuts to coil support bracket	M5x0.8	6	
Coil bracket to frame fastener	M6x1	10	LOCK 2
Front ABS speed sensor to front fork bottom end fastener	M6x1	7	Pre-applied threadlocker
Rear ABS sensor retaining screws	M6x1	7	Pre-applied threadlocker
LH switch fastener	M5x0.8	2	
RH switch fastener	M4x0.7	1.5	
Fastener for fuse wiring bracket to vertical head intake manifold	M6x1	10	Pre-applied threadlocker
Screws securing wiring support to vertical head	M5x0.8	5	
REAR SWINGING ARM			
Eccentric hub screw	M14x1.25	40*	GREASE B
Swingarm shaft screw	M15x1.25	72*	GREASE B
Rear brake calliper holder plate pin	M12x1.25	33*	Pre-applied threadlocker
Base fastener for RICHCO clamp	M4x0.7	1	
Screws securing upper chain sliding shoe + chain guard to swinging arm	M5x0.8	5	
Lower chain sliding shoe retaining screws	M5x0.8	5	Pre-applied threadlocker
Screw retaining lower chain sliding shoe to swinging arm with chain guard to swinging arm and screw retaining upper chain sliding shoe with chain guard to swinging arm	M5x0.8	5	
ABS SYSTEM			
Front brake master cylinder to handlebar fastener	M6x1	10	Seq.: 1-(UP)-2-1
Unions to ABS control unit fastener	M10x1	23	
Front brake calliper fastener (RH+LH)	M10x1.25	45*	GREASE B
Front brake calliper pre-tightening for settling (RH+LH)	M10x1.25	2	GREASE B

Union on brake master cylinder tightening	M10x1	23	
Screw securing ABS/fuse support bracket to frame	M6x1	10	
Screw retaining rear brake master cylinder to fluid reservoir bracket	M6x1	10	LOCK 2
Screw securing rear brake fluid reservoir to support	M6x1	2	Pre-applied threadlocker
Rear brake calliper retaining screw	M8x1.25	25*	GREASE B
Bleeder fastener (RH+LH front calliper)	M6x1	4	
ABS control unit on bracket fastener	M6x1	6.8±1	LOCK 2
Screw securing ABS hose rear bracket to engine	M6x1	10	Pre-applied threadlocker
Screw securing ABS control unit to ABS/fuse support bracket	M6x1	10	Pre-applied threadlocker
Screw securing ABS hose plug to ABS hose support bracket	3.5	1.6	
NUMBER PLATE HOLDER			
Nut securing cat's eye to plate	M4x0.7	1.5	
Screw securing number plate light to upper number plate holder	M4x0.7	1.5	
Lower to upper number plate holder retainer	M5x0.8	4	LOCK 2
Number plate holder plate to upper number plate holder retainer	M6x1	8	
Fastener retaining number plate holder to rear subframe	M8x1.25	20	Pre-applied threadlocker + LOCK 2
HANDLEBAR / CLUTCH CONTROL			
Clutch lever to lever unit fastener	M6x1	10-15	
Handlebar clamp to tubes fastener	M6x1	10*	GREASE B
Handlebars to steering head fastener	M10x1.5	35*	GREASE B
Asahi Denso throttle control to handlebar retainer	M5x0.8	1.5	
Handlebar counterweight fastener	M6x1	10	
Clutch cable plate to engine fastener	M6x1	10	

Clutch lever body to handlebar U-bolt fastener	M6x1	6-7	Seq.: 1-(UP)-2-1
REAR SUSPENSION			
Shock absorber to vertical head fastener	M10x1.5	42*	GREASE B
Shock absorber to rear swinging arm fastener	M10x1.5	42*	GREASE B
FRONT MUDGUARD			
Front mudguard fastener	M6x1	8*	Pre-applied threadlocker
Front brake hose guide on mudguard retainer	3.5	0.4	Pre-applied threadlocker
WATER RADIATOR			
Radiator to frame fastener	M6x1	10	
Vertical head breather pipe to radiator fastener		0.6	
Threaded pin to horizontal head fastener	M6x1	10	
Expansion reservoir to ABS support bracket fastener	M6x1	6	
Expansion reservoir support bracket to manifold fastener	M6x1	10	
Expansion reservoir to water expansion reservoir support fastener	M6x1	8	
Bushing on reservoir fastener	M6x1	8	
Tie fastener for water pipes at radiator in/out pcs 2, from radiator to thermostat pcs 1, at water pump pcs 1, on horizontal head pipe on head pcs 1		3	
Fastener: 1 pc. on vertical head fitting, 1 pc. from vertical head pipe to thermostat, 1pc. From thermostat to horizontal head on thermostat		3.0	
Horizontal head breather pipe fastener on head		1.3	
Vertical head breather pipe fastener on vertical head fitting		0.6	
Ground eyelet fastener on water radiator LH upper side	M5X0.8	3	
FOOTPEGS AND LEVERS			
BRAKE SIDE			

Brake lever pin on footpeg holder plate fastener	M8x1	24	Pre-applied threadlocker
Stop switch on footpeg holder plate	M8x1	5	
Brake lever adjuster retainer	M6x1	8	
Brake master cylinder control rod fastener	M6x1	7.5	
Rear brake return spring retaining pin	M6x1	10	LOCK 2
Lower footpegs to engine retaining adjuster	M20x1	0.6	GREASE B
Footpeg holder plate adjuster ring nut to adjuster	M20x1	80*	GREASE B
Nut retaining footrest holder plate to engine	M12x1.25	60*	GREASE B
Footpeg holder plate to adjuster retaining screw	M10x1.25	45*	GREASE B
Screw securing footpeg holder plate to rear subframe	M8x1.25	25*	
Screws securing RH rear footpeg holder plate to rear subframe	M8x1.25	30*	Pre-applied threadlocker
Gearchange lever pin on footpeg holder plate	M8x1	24	Pre-applied threadlocker
Screw retaining DQS transmission rod joint and rod 1312 base no DQS on gear shift lever	M6x1	10	
Screw retaining DQS transmission rod joint and rod 1312 base on pawl	M6x1	10	
DQS gearchange transmission rod eyelet bolt (S VERSION ONLY)	M5x0.8	5	LOCK 1
Screw locking gearchange lever to pawl	M6x1	10	Pre-applied threadlocker
RH nut securing joints to gearchange rod (BASE VERSION ONLY)	M6x1	5	
LH nut securing joints to gearchange rod (BASE VERSION ONLY)	M6x1	5	
Lower footpegs to engine retaining adjuster	M20x1	0.6	
Footpeg holder plate adjuster ring nut to adjuster	M20x1	80*	
Footpeg holder plate to adjuster retaining screw	M10x1.25	45*	
Screw securing footpeg holder plate to rear subframe	M8x1.25	25*	

Screws securing RH rear footpeg holder plate to rear subframe	M8x1.25	30*	
REAR MUDGUARD			
Screws securing rear mudguard to swinging arm	M5x0.8	5	Pre-applied threadlocker
FRONT WHEEL			
Brake disc fastener (RH+LH)	M8x1.25	30*	(LOCK2)
Front wheel nut fastener	M25x1.25	63*	GREASE B
Valve fastener	M8x1.25	9	
REAR WHEEL			
Rear sprocket fastener	M10x1.25	44	LOCK2
Rear sprocket side wheel shaft fastener (LH)	M48x1.5	230*	GREASE B
Rim side wheel shaft fastener (RH)	M48x1.5	230*	GREASE B
Brake disc retaining screw	M8x1	35*	LOCK2
Phonic wheel retainer	M5x0.8	8*	Pre-applied threadlocker
Valve retainer	M8x1.25	9	
FUEL TANK			
Screw retaining buffers to fuel tank	M5x0.8	6	
Tank plug retaining screw	M5x0.8	4	
Tank plug flange retaining screw	M5x0.8	4	
GAC retaining screws	M5x0.8	5	GREASE B
Fuel sensor to tank retainer	M5x0.8	5	GREASE B
Retainer for male quick-release fitting CPC PLCD240-04V	1/4 NPT	10	LOCK 6
Tank to front LH side frame fastener	M6x1	5	
Canister to Bracket fastener	M5x0.8	6	
EXHAUST			
Exhaust pipe flange to hor./vert. head nut	M6x1	10	GREASE I

Exhaust gas plug	M10x1.25	25	
Lambda sensor fastener (HOR.+VER.)	M12x1.25	25	
Clamps retaining horizontal primary heat guard pcs 2 and new vertical heat guard pc. 1		2.5	
Presilencer assy to vertical primary pipe retaining clamp		18	
Exhaust silencer clamp only for replacing wheel and spare parts		22	
Fastener securing LH presilencer support con-rod to presilencer and support sheet on stand side	M6x1	10	
RH presilencer support con-rod to presilencer fastener	M6x1	10	
Upper RH presilencer support con-rod to engine fastener	M6x1	10	
Presilencer assy to engine fastener	M8x1.25	18	
Cover to tailpipe fastener, only for replacing wheel and spare parts	M5x0.8	5	
LH side presilencer side cover fastener	M5x0.8	5	
Exhaust valve cover fastener	M5x0.8	5	
Retainer securing exhaust valve motor to radiator support	M6x1	3.5	
Retainer securing exhaust valve motor to support bracket	M6x1	3.5	
Exhaust valve cable to engine fastener	M5x0.8	5	
Retainer securing exhaust valve motor heat guard to support bracket	M6x1	3.5	Pre-applied threadlocker
Nut securing exhaust valve cable to silencer	M6x0.75	2.5	
Fastener retaining RH M10 to M6 adapter bushing to crankcase for securing exhaust con-rod	M10x1.5	15	LOCK 5
Fastener securing LH and RH steel heat guards to vertical primary pipe clip	M6x1	8	
Fastener securing LH and RH amodel heat guards to vertical primary pipe clip	M6x1	8	
SEAT			
Seat cover retaining screw	M5x0.8	4	



Ring nut retaining seat lock to tail RH side body panel	M22x1.5	4	
FRAME			
Screws retaining frame to H/V heads	M12x1.25	90*	GREASE B
Screws retaining subframe to vertical head	M18x1.5	150*	GREASE B
RH and LH grab handle to subframe rear plate retaining screws	M6x1	10	LOCK 2
Fastener securing latch bracket to frame and latch to bracket	M6x1	8	
Fastener securing electric component compartment	M5x0.8	3	
Fastener securing tank pivot mounting plate to subframe	M5x0.8	5	
Front subframe to frame fastener	M8x1.25	22	
Electric component support bracket fastener	M6x1	8	
Front wiring harness guide to subframe fastener	M6x1	8	Pre-applied threadlocker
Electric component support bracket fastener	1-1/8 GAS	1.5	
OIL COOLER			
Screws retaining radiator support to horizontal head	M8x1	25	Pre-applied threadlocker
Bracket 830.1.F14.1BA to aluminium support top fastener and bracket+oil cooler bottom fastener	M6x1	5	
Fastener securing pressure switch to oil cooler		19	Lubricate with engine oil
Oil lines to radiator unions retainer	M16x1.5	18*	Lubricate with engine oil
Nipple to oil cooler fastener	M14x1.5	23	LOCK1
AIR INLET / OIL BREATHER			
Blow-by pipe to airbox clip		1.5	
Clamp retaining blow-by pipe to engine fitting + exhaust pipe heat guard		1.5	
Screw securing ECU and electric component support to airbox upper box	M5x0.8	5	

Screw securing ignition switch connector support to ECU and electric component support	M5x0.8	5
Nuts securing ECU and electric component support to airbox upper box	M5x0.8	2
Screws retaining Marelli ATS05 sensor (air temp) to airbox upper shell	3.5	0.3
Nuts retaining SIEMENS sensor rubber support to airbox lower shell	M5x0.8	5
Map sensor silent-block to airbox lower shell fastener	M5x0.8	5
Screw securing clamp base (RICHCO) to airbox upper box	3.5	0.5
Screws securing throttle body to airbox lower box	M6x1	8
Screws securing fuel pipes to throttle body	M5x0.8	5
Screws securing intake funnels to throttle body	M5x0.8	5
Screws securing air filter cover to airbox upper box	M5x0.8	3
Air filter retaining ring nut	M6x1	8
Screws securing upper box to airbox lower box	5	2.25
Clip securing throttle body to intake ducts		2.5
Secondary air system actuator to airbox upper box retainer	3.5	0.3

#### FAIRING

Fastener securing front shield to radiator rubber blocks/aluminium support	M5x0.8	5	Pre-applied threadlocker
Fastener retaining shield to radiator central screw	M5x0.8	2.5	
Fastener securing shield to Rh and LH lower fairing top retainers	M5x0.8	2.5	
Fastener securing shield to Rh and LH lower fairing bottom retainers	M5x0.8	2.5	
Fastener securing LH and RH lower half-fairing lug	M5x0.8	2.5	
Fastener retaining LH and RH upper fairing to LH and RH conveyor	M5x0.8	2.5	
Fastener retaining LH and RH upper fairing to tank brackets	M5x0.8	4	

Fastener retaining LH and RH upper fairing to LH and RH lower fairing	M5x0.8	2.5
Fastener securing LH and RH conveyors to tank wellnut	M5x0.8	0.5
Fastener retaining LH and RH lower fairings to stand-side exhaust support sheet and RH fairing lower bracket	M5x0.8	
Fastener retaining underseat central cover to LH and RH side body panels and rear subframe	M5x0.8	3
LH and RH side body panels to subframe fastener	M5x0.8	3
Headlight fairing to LH and RH upper fairing fastener	M5x0.8	2.5
Fastener securing headlight fairing to front subframe and headlight rubber blocks	M5x0.8	5
Plexiglas to support fastener	M5x0.8	5
Fastener retaining Plexiglas support subframe trim to Plexiglas adjustment support	M5x0.8	5
Fastener retaining Plexiglas support subframe trim to subframe	M6x1	5
Fastener retaining Plexiglas adjustment support trim to Plexiglas adjustment support	5	2
Fastener retaining LH coil side cover plate to engine stud bolt	M5x0.8	6
Fastener retaining LH coil side cover to plate	M5x0.8	6
Fastener retaining Rh side cover to brackets on front frame	M5x0.8	6
RH side cover to engine wellnut retaining screw	M6x1	1

\*dynamic safety-critical point; tightening torque tolerance must be Nm  $\pm$ 5%.