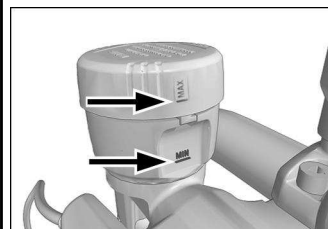
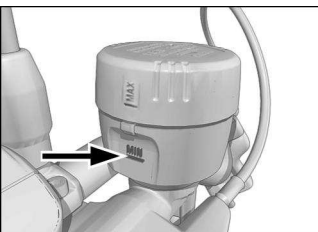
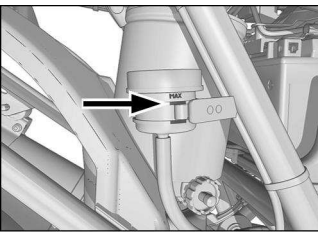


Service data 0369 - HP2 Enduro			
Designation	Condition	Value	Valid
Engine, oil capacity	with filter change	max 4 l	
	Consumables/lubricants		
	Engine oil, 20W-50		
Engine, oil level		Maximum = top ring mark on sight glass	
	Consumables/lubricants		
	Engine oil, 20W-50		
		Minimum = bottom ring mark on sight glass	
11 34 - Valves with springs			
Inlet valve, valve clearance	Engine cold max 35 °C	0.15 mm	
Exhaust valve, valve clearance	Engine cold max 35 °C	0.3 mm	
12 12 - Ignition wiring, spark plugs			
Secondary spark plug, manufacturer and designation		BOSCH YR5LDE	
Spark plug, manufacturer and designation		Bosch YR5LDE	
13 - Fuel preparation			
Pressure differential between intakes	with throttle valves closed, engine idling	max 25 mbar	
Pressure differential between intakes	with throttle valves slightly open 1400...1800 min ⁻¹	max 15 mbar	
21 - Clutch			
Fluid level in clutch fluid reservoir	motorcycle upright and handlebars in straight-ahead position	not below the MIN mark on the reservoir	
Clutch fluid level in reservoir	with new clutch liner, motorcycle upright and handlebars centred	Bottom edge of groove for reservoir cap catch	
	Consumables/lubricants		



		Vitamol V10	
23 - Gearbox mechanical			
Oil capacity, gearbox	to bottom edge of thread of filler plug	0.9 l	
Consumables/lubricants			
Brand name hypoid-gear lubricant SAE 90 API GL 5			
31 - Front forks			
Level of fork oil in fork leg (air chamber)		70 ⁺¹⁰ mm	
Fork oil, capacity per fork leg		0.67 l	
Consumables/lubricants			
Hydraulic fluid			
32 73 - Bowden cables			
Bowden cable of throttle twistgrip, play setting		max 0.5 mm	
Throttle cables, throttle cable divider / throttle-valve stubs, setting		0.5...1 mm	
33 12 - Crown wheel with pinion and bearing			
Final drive, tooth backlash		0.06...0.18 mm	
34 - Brakes			
Minimum level in brake-fluid reservoir, front 	motorcycle upright and handlebars in straight-ahead position	not below MIN mark on the brake fluid reservoir, with worn brake pads	
Minimum level in brake-fluid reservoir, rear 	motorcycle upright	not below MIN mark on the brake fluid reservoir, with worn brake pads	
34 11 - Front brakes			
Brake pads, front wheel, thickness Value definition: Wear limit	Friction pad only, without backing plate	min 1 mm	

Brake disc, front wheel, thickness Value definition: Wear limit		min 4 mm	
34 21 - Rear brakes			
Brake pads, rear wheel, thickness Value definition: Wear limit		1 mm	
Brake disc, rear wheel, thickness Value definition: Wear limit		min 4.5 mm	
34 31 - Brake master cylinder			
Rear brake master cylinder, play of piston pushrod	Measured between brake-light switch tongue and stop of adjusting screw	2 ⁺¹ mm	
36 30 - Motorcycle wheels			
Front wheel, imbalance Value definition: permissible residual imbalance		max 5 g	
Rear wheel, imbalance Value definition: permissible residual imbalance		max 5 g	
36 32 - Tyres			
Front wheel, tyre pressure	tyre cold	2.2 bar	
Rear wheel, tyre pressure	tyre cold	2.5 bar	
Front and rear wheels, tyre tread depth	German only (in all other countries, comply with specifics of the applicable road-safety legislation)	min 1.6 mm	
11 11 - Engine block			
Engine guard to engine			
Engine guard to engine, rear left and right, M8		19 Nm	
Engine guard to engine, front left, M8 x 16		19 Nm	
Engine guard to engine, front right, M6		8 Nm	
Oil drain plug			
Oil drain plug, M16 x 1.5		32 Nm	
11 12 - Cylinder head with cover			

Cylinder head cover to cylinder head		
Cylinder head cover to cylinder head, tighten in diagonally opposite sequence	10 Nm	
Tightening cylinder head		
Nuts of tie bolts, M10, in diagonally opposite sequence, slacken and then retighten each nut	Closing torque, 20 Nm	
	Final torque, 180°	
Screw, M10 x 85, Slacken and retighten screw	40 Nm	
11 14 - Housing cover		
Belt cover to engine		
Belt cover to engine, M5 x 16	5 Nm	
11 33 - Rocker/follower with bearing		
Locknut, valve adjusting screw		
Locknut, valve adjusting screw, M6x0.5	8 Nm	
11 42 - Oil filter and lines		
Oil filter		
Oil filter, Sealing ring wetted with engine oil	11 Nm	
12 12 - Ignition wiring, spark plugs		
Secondary spark plug to cylinder head		
Secondary spark plug to cylinder head, M12x1.25, Thread free of oil and grease	Initial torque and retorquing, 23 Nm	
Primary spark plug to cylinder head		
Primary spark plug to cylinder head, M12x1.25, Thread free of oil and grease	Initial torque and retorquing, 23 Nm	
12 13 - Ignition coil		
Cover, secondary spark plug coil to cylinder head		
Cover, secondary spark plug coil to cylinder head, M6 x 12	8 Nm	
16 11 - Fuel tank with fasteners		
Fuel tank to frame		
Fuel tank to frame, M6 x 35 Mechanical thread lock	8 Nm	
18 12 - Silencer		
Rear silencer to rear frame section		

Rear silencer to rear frame section, M8 x 45	19 Nm	
Oil drain plug, gearbox	30 Nm	
Oil filler plug, gearbox	30 Nm	
23 41 - External gearshift components		
Gearshift lever to rear frame		
Gearshift lever to rear frame, M8 x 70	19 Nm	
31 42 - Telescopic fork, ball-joint fork		
Pinch bolt, axle holder		
Pinch bolt, axle holder, M6 x 30, 1 - 2 - 1 - 2	8 Nm	
Handlebar clamping block to fork bridge		
Handlebar clamping block to fork bridge, M10 x 100, Grease threads. Optimoly TA	38 Nm	
Handlebar to handlebar clamping block		
Handlebar to handlebar clamping block, M8 x 30, Grease threads. Optimoly TA	19 Nm	
Fork bridge, bottom, to fork fixed tube		
Fork bridge, bottom, to fork fixed tube, M8 x 25, 1 - 2 - 1 - 2	10 Nm	
Fork bridge, top, to fork fixed tube		
Fork bridge, top, to fork fixed tube, M8 x 25, 1 - 2 - 1 - 2	24 Nm	
Telescopic fork to frame		
Adjusting screw, steering tube, M18 x 1	Initial torque, 19 Nm	
	Swing the handlebars to left full lock to right full lock and back to left full lock.	
	Back off adjusting screw	
	Retighten, 5 Nm	
Pinch bolt, steering tube, M8 x 25	24 Nm	
Adjusting screw, steering tube, M18 x 1	Counter-hold, 19 Nm	
Locknut to cover	30 Nm	
Cover to fixed fork tube	28 Nm	
33 11 - Final-drive housing with cover		

Oil filler plug in rear wheel drive		
Oil filler plug in rear wheel drive, M12x1, with O-ring 11.2x1.8	20 Nm	
Cover to final drive housing		
Cover to final drive housing, M8, in diagonally opposite sequence	30 Nm	
33 17 - Final-drive attachment		
Link to final drive housing		
Link to final drive housing, M10 x 55 10.9 Mechanical thread lock	43 Nm	
Reaction link to frame		
Reaction link to frame, M10 x 50 - 10.9	38 Nm	
Swinging arm to main frame, right		
Swinging arm to main frame, right, M6	9 Nm	
Swinging arm to main frame, left, bearing stud		
Swinging arm to main frame, left, bearing stud, M24 x 1.25	7 Nm	
Swinging arm to main frame, left, locknut		
Swinging arm to main frame, left, locknut, M24 x 1.25	145 Nm	
Rear wheel drive to swinging arm		
Rear wheel drive to swinging arm, M12 x 1.5 x 80 - 10.9, Replace screw Micro-encapsulated	100 Nm	
33 53 - Springs with mounts		
Spring strut to rear frame		
Spring strut to rear frame, M12	66 Nm	
Spring strut to rear swinging arm		
Spring strut to rear swinging arm, M12	66 Nm	
34 11 - Front brakes		
Brake caliper, front, bleed screw	5 Nm	
Brake caliper to slider tube		
Brake caliper to slider tube, M8 x 35 10.9 ZNS3	30 Nm	
Brake disc to front wheel		

Brake disc to front wheel, M8 10.9 ZNS3, Replace screw Micro-encapsulated	Initial torque, 12 Nm	
	Final torque, 24 Nm	
34 21 - Rear brakes		
Brake disc to wheel carrier		
Brake disc to wheel carrier, M8 x 15.5, Replace screw Micro-encapsulated	Initial torque, 12 Nm	
	Final torque, 30 Nm	
Brake caliper, rear, to cover of final drive housing		
Brake caliper, rear, to cover of final drive housing, M8 x 25	24 Nm	
Brake caliper, rear, bleed screw	5 Nm	
34 31 - Brake master cylinder		
Rear brake, master cylinder, locknut on pushrod		
Rear brake, master cylinder, locknut on pushrod, M6 Sealing lacquer	8 Nm	
34 32 - Brake lines		
Brake pipes and hoses to components		
Brake pipes and hoses to components, M10 x 1	24 Nm	
Brake pipes and hoses to components, M12 x 1	24 Nm	
34 52 - Electronic components		
Speed sensor to final drive housing cover		
Speed sensor to final drive housing cover, M6, Replace screw Micro-encapsulated	8 Nm	
35 21 - Footbrake lever with connecting linkage		
Footbrake lever to rear frame section		
Footbrake lever to rear frame section, M8 x 40, Replace self-locking screw	19 Nm	
36 31 - Wheels with bearings		
Front wheel, axle screw in axle holder		
Grease threads., M22 x 1.5 - Elox H Optimoly TA	50 Nm	
Rear wheel to wheel carrier		
Rear wheel to wheel carrier, M10 x 53 x 1.25	60 Nm	

Initial torque, spokes		
Initial torque, spokes, M4	1 Nm	
Nipple on spoke		
Nipple on spoke, M4	4 Nm	
Counter-hold spokes		
Counter-hold spokes, M4	1 Nm	
46 51 - Motorcycle frame		
Frame front section to engine front / rear		
Replace nut, M12 Micro-encapsulated	66 Nm	
Frame front section to rear frame section		
Frame front section to rear frame section, M8 x 20	19 Nm	
Rear frame to engine, top		
Rear frame to engine, top, M10 x 40	38 Nm	
Rear frame to engine, bottom		
Rear frame to engine, bottom, M12 x 50	55 Nm	
46 53 - Side stand		
Pivot mount, side stand to rear frame section		
Pivot mount, side stand to rear frame section, M8 x 16	19 Nm	
Front footrest to rear frame section, stop screw		
Front footrest to rear frame section, stop screw, M8	19 Nm	
Side stand to pivot mount		
Side stand to pivot mount, M10 x 1 Loctite 603	41 Nm	
46 54 - Luggage carrier		
Rear carrier to rear frame section		
Rear carrier to rear frame section, M6 x 25	8 Nm	
46 61 - Front mudguard		
Mudguard carrier to fork bridge, bottom		
Mudguard carrier to fork bridge, bottom, M6 x 16 A2-70 special steel, bright, Grease threads. Optimoly TA	10 Nm	

Mudguard carrier to fork bridge, top		
Mudguard carrier to fork bridge, top, M6 x 16 A2-70 special steel, bright, Grease threads. Optimoly TA	10 Nm	
46 63 - Motorcycle trim panels		
Side panel to tank cover		
Side panel to tank cover, M5 x 16 Mechanical thread lock	2 Nm	
Side panel, right, and intake guard to holder		
Side panel, right, and intake guard to holder, M5 x 20 Mechanical thread lock	4 Nm	
Side panel to frame, rear		
Side panel to frame, rear, M5 x 16 Mechanical thread lock	2 Nm	
61 31 - Switches and relays		
Brake-light switch, rear		
Brake-light switch, rear, M5 x 6	5 Nm	