

Faults	Possible cause	Action
The engine does not turn when the start button is pressed	Operating error	– Carry out start procedure. (📖 p. 34)
	12 V battery discharged	– Charge the 12-V battery. 🛠️ (📖 p. 89) – Check the open-circuit current. 🛠️
	Fuse 1, 2 or 3 blown	– Change the fuses of individual electrical power consumers. (📖 p. 93)
	Main fuse burned out	– Change the main fuse. (📖 p. 90)
	No ground connection present	– Check the ground connection.
Engine turns only if the clutch lever is drawn	The vehicle is in gear	– Shift the transmission to neutral position.
	The vehicle is in gear and the side stand is folded out	– Shift the transmission to neutral position.
Engine turns but does not start.	Operating error	– Carry out start procedure. (📖 p. 34)
	Fuse 3 blown	– Change the fuses of individual electrical power consumers. (📖 p. 93)
	Quick release coupling not joined	– Join quick release coupling.
	Malfunction in the electronic fuel injection	– Read out the fault memory using the Husqvarna Motorcycles diagnostics tool. 🛠️
	Throttle opened while starting	– When starting, <b>DO NOT</b> open the throttle. – Carry out start procedure. (📖 p. 34)
Engine has too little power	Air filter is very dirty	– Remove the air filter. 🛠️ (📖 p. 58) – Install the air filter. 🛠️ (📖 p. 58)
	Fuel screen is very dirty	– Change the fuel screen. 🛠️ (📖 p. 108)
	Fuel filter is very dirty	– Check the fuel pressure. 🛠️
	Malfunction in the electronic fuel injection	– Read out the fault memory using the Husqvarna Motorcycles diagnostics tool. 🛠️
Engine overheats.	Too little coolant in cooling system	– Check the cooling system for leakage. – Check the coolant level. (📖 p. 101)
	Radiator fins very dirty	– Clean radiator fins.
	Foam formation in cooling system	– Drain the coolant. 🛠️ (📖 p. 102) – Fill/bleed the cooling system. 🛠️ (📖 p. 103)
	Buckled or damaged radiator hose	– Change the radiator hose. 🛠️
	Thermostat is faulty	– Check the thermostat. 🛠️
	Fuse 4 blown	– Change the fuses of individual electrical power consumers. (📖 p. 93)
	Defect in radiator fan system	– Check the radiator fan system. 🛠️
	Air in cooling system	– Fill/bleed the cooling system. 🛠️ (📖 p. 103)
Malfunction indicator lamp lights up or flashes	Malfunction in the electronic fuel injection	– Read out the fault memory using the Husqvarna Motorcycles diagnostics tool. 🛠️
<b>N</b> The idling speed indicator lamp does not light up when the transmission is in neutral	Gear position sensor not programmed	– Read out the fault memory using the Husqvarna Motorcycles diagnostics tool. 🛠️

Faults	Possible cause	Action
Engine dies during the journey	Lack of fuel	– Refuel. (📖 p. 42)
	Fuse <b>1</b> , <b>2</b> or <b>3</b> blown	– Change the fuses of individual electrical power consumers. (📖 p. 93)
ABS warning lamp lights up	ABS fuse blown	– Change the ABS fuses. (📖 p. 91)
	Large difference in wheel speeds of the front and rear wheels	– Stop the vehicle, switch off the ignition, and start it again.
	Malfunction in ABS	– Read out the fault memory using the Husqvarna Motorcycles diagnostics tool. 🛠️
High oil consumption	Engine vent hose bent	– Route the vent hose without bends or change it if necessary.
	Engine oil level too high	– Check the engine oil level. (📖 p. 109)
	Engine oil too thin (low viscosity)	– Change the engine oil and the oil filter, clean the oil screens. 🛠️ (📖 p. 109)
Headlight and parking light are not functioning	Fuse <b>6</b> blown	– Change the fuses of individual electrical power consumers. (📖 p. 93)
Turn signal, brake light and horn not functioning	Fuse <b>5</b> blown	– Change the fuses of individual electrical power consumers. (📖 p. 93)
Time is not (correctly) displayed	Fuse <b>1</b> blown	– Change the fuses of individual electrical power consumers. (📖 p. 93) – Set the clock. (📖 p. 28)
12 V battery discharged	Ignition not switched off when vehicle was parked	– Charge the 12-V battery. 🛠️ (📖 p. 89)
	The 12-V battery is not being charged by the alternator	– Check the charging voltage. 🛠️ – Check the open-circuit current. 🛠️
Combination instrument shows nothing in the display	Fuse <b>1</b> or <b>2</b> blown	– Change the fuses of individual electrical power consumers. (📖 p. 93) – Set the clock. (📖 p. 28)

## 22.1 Engine

Design	1-cylinder 4-stroke engine, water-cooled
Displacement	692.7 cm <sup>3</sup> (42.271 cu in)
Stroke	80 mm (3.15 in)
Bore	105 mm (4.13 in)
Compression ratio	12.7:1
Idle speed	
Coolant temperature: $\geq 70\text{ }^{\circ}\text{C}$ ( $\geq 158\text{ }^{\circ}\text{F}$ )	1,600 ... 1,700 rpm
Control	OHC, intake with cam levers, exhaust controlled by rocker arm, chain drive
Valve diameter, intake	42 mm (1.65 in)
Valve diameter, exhaust	34 mm (1.34 in)
Valve play, cold	
Intake at: $20\text{ }^{\circ}\text{C}$ ( $68\text{ }^{\circ}\text{F}$ )	0.10 ... 0.15 mm (0.0039 ... 0.0059 in)
Exhaust at: $20\text{ }^{\circ}\text{C}$ ( $68\text{ }^{\circ}\text{F}$ )	0.22 ... 0.27 mm (0.0087 ... 0.0106 in)
Crankshaft bearing	2 roller bearings
Conrod bearing	Slide bearing
Piston pin bearing	Piston pin with <b>DLC</b> coating
Pistons	Forged light alloy
Piston rings	1 compression ring, 1 lower compression ring, 1 oil ring with spring expander
Engine lubrication	Semi-dry sump lubrication system with two trochoid pumps
Primary transmission	36:79
Clutch	<b>APTC™</b> antihopping clutch in oil bath/hydraulically operated
Transmission	6-gear transmission, claw shifted
Transmission ratio	
First gear	14:35
Second gear	16:28
Third gear	20:27
Fourth gear	21:23
Fifth gear	23:22
Sixth gear	23:20
Mixture preparation	Electronic fuel injection
Ignition	Contactless controlled fully electronic ignition with digital ignition adjustment
Alternator	12 V, 300 W
Spark plug	
Inside spark plug	NGK LKAR9BI-10
Outside spark plug	NGK LMAR7DI-10
Spark plug electrode gap	1.0 mm (0.039 in)
Cooling	Water cooling, permanent circulation of coolant by water pump
Starting aid	Starter motor, automatic decompression

## 22.2 Engine tightening torques

Screw, membrane fixation	M3	2 Nm (1.5 lbf ft) <b>Loctite®243™</b>
Hose clamp, intake flange	M4	2.5 Nm (1.84 lbf ft)
Oil nozzle for clutch lubrication	M4	0.4 Nm (0.3 lbf ft)
Oil nozzle for conrod bearing lubrication	M4	0.8 Nm (0.59 lbf ft)
Locking screw for bearing	M5	6 Nm (4.4 lbf ft) <b>Loctite®243™</b>
Oil nozzle in cylinder head	M5	2 Nm (1.5 lbf ft)
Remaining screws, engine	M5	6 Nm (4.4 lbf ft)
Screw, axial lock of camshaft and balancer shaft	M5	6 Nm (4.4 lbf ft) <b>Loctite®243™</b>
Screw, clutch spring	M5	6 Nm (4.4 lbf ft)
Screw, cover plate for oil return line	M5	6 Nm (4.4 lbf ft) <b>Loctite®243™</b>
Screw, gear sensor	M5	5 Nm (3.7 lbf ft) <b>Loctite®243™</b>
Screw, oil filter cover	M5	6 Nm (4.4 lbf ft)
Screw, oil pump cover	M5	6 Nm (4.4 lbf ft) <b>Loctite®243™</b>
Screw, oil pump cover, top	M5	6 Nm (4.4 lbf ft) <b>Loctite®243™</b>
Screw, retaining bracket	M5	8 Nm (5.9 lbf ft) <b>Loctite®243™</b>
Screw, shift shaft sensor	M5	5 Nm (3.7 lbf ft) <b>Loctite®243™</b>
Remaining screws, engine	M6	10 Nm (7.4 lbf ft)
Screw, alternator cover	M6x25	10 Nm (7.4 lbf ft) <b>Loctite®243™</b>
Screw, alternator cover	M6x30	10 Nm (7.4 lbf ft) <b>Loctite®243™</b>
Screw, alternator cover (timing chain shaft through-hole)	M6	10 Nm (7.4 lbf ft) <b>Loctite®243™</b>
Screw, camshaft bearing bridge	M6	10 Nm (7.4 lbf ft)
Screw, camshaft bearing support	M6x80	10 Nm (7.4 lbf ft)
Screw, camshaft bearing support	M6x90	10 Nm (7.4 lbf ft)
Screw, clutch cover	M6	10 Nm (7.4 lbf ft)
Screw, clutch cover	M6x25	10 Nm (7.4 lbf ft)
Screw, clutch cover	M6x30	10 Nm (7.4 lbf ft)
Screw, clutch cover	M6x35	10 Nm (7.4 lbf ft)
Screw, clutch slave cylinder	M6x20	10 Nm (7.4 lbf ft)
Screw, crankshaft speed sensor	M6	10 Nm (7.4 lbf ft) <b>Loctite®243™</b>
Screw, cylinder (timing chain shaft) on housing	M6	10 Nm (7.4 lbf ft) <b>Loctite®243™</b>

Screw, cylinder head	M6	10 Nm (7.4 lbf ft) <b>Loctite®243™</b>
Screw, engine case	M6	10 Nm (7.4 lbf ft)
Screw, engine case	M6x25	10 Nm (7.4 lbf ft)
Screw, engine case	M6x30	10 Nm (7.4 lbf ft)
Screw, engine case	M6x70	10 Nm (7.4 lbf ft)
Screw, engine case	M6x80	10 Nm (7.4 lbf ft)
Screw, engine sprocket cover and slave cylinder of the clutch	M6x35	10 Nm (7.4 lbf ft)
Screw, guide rail	M6x30	10 Nm (7.4 lbf ft) <b>Loctite®2701™</b>
Screw, guide rail	M6x20	10 Nm (7.4 lbf ft) <b>Loctite®243™</b>
Screw, ignition coil	M6	10 Nm (7.4 lbf ft)
Screw, locking lever	M6	10 Nm (7.4 lbf ft) <b>Loctite®243™</b>
Screw, resonator	M6	10 Nm (7.4 lbf ft)
Screw, secondary air system cover	M6x12	10 Nm (7.4 lbf ft) <b>Loctite®243™</b>
Screw, shift drum locating	M6	15 Nm (11.1 lbf ft) <b>Loctite®243™</b>
Screw, shift lever	M6	14 Nm (10.3 lbf ft) <b>Loctite®243™</b>
Screw, starter motor	M6	10 Nm (7.4 lbf ft)
Screw, stator	M6	10 Nm (7.4 lbf ft) <b>Loctite®243™</b>
Screw, tensioning rail	M6x30	10 Nm (7.4 lbf ft) <b>Loctite®2701™</b>
Screw, thermostat case	M6	10 Nm (7.4 lbf ft)
Screw, timing chain shaft	M6	10 Nm (7.4 lbf ft)
Screw, valve cover	M6	10 Nm (7.4 lbf ft)
Screw, water pump cover	M6	10 Nm (7.4 lbf ft)
Screw, water pump wheel	M6	10 Nm (7.4 lbf ft) <b>Loctite®243™</b>
Intake channel vacuum connection	M6x0.75	2.5 Nm (1.84 lbf ft) <b>Loctite®2701™</b>
Oil nozzle for piston cooling	M6x0.75	4 Nm (3 lbf ft)
Screw plug, locking screw	M8	15 Nm (11.1 lbf ft)
Screw, rocker arm shaft	M8x40	15 Nm (11.1 lbf ft)
Screw, rocker arm shaft	M8x55	15 Nm (11.1 lbf ft)
Setscrew, camshaft bearing bridge	M8	6 Nm (4.4 lbf ft) <b>Loctite®243™</b>
Stud, exhaust flange	M8	15 Nm (11.1 lbf ft) <b>Loctite®243™</b>

## 22 TECHNICAL SPECIFICATIONS

Screw, cylinder head	M10	Tightening sequence: Tighten diagonally, beginning with the rear screw on the timing chain shaft. 1st stage 15 Nm (11.1 lbf ft) 2nd stage 30 Nm (22.1 lbf ft) 3rd stage 45 Nm (33.2 lbf ft) 4th stage 60 Nm (44.3 lbf ft) Thread greased
Screw, engine sprocket	M10	60 Nm (44.3 lbf ft) <b>Loctite®243™</b>
Screw plug, oil channel	M10x1	15 Nm (11.1 lbf ft) <b>Loctite®243™</b>
Screw plug, water pump drain hole	M10x1	15 Nm (11.1 lbf ft)
Screw, oil line	M10x1	10 Nm (7.4 lbf ft)
Screw, unlocking for timing chain tensioner	M10x1	8 Nm (5.9 lbf ft)
Spark plug outside	M10x1	11 Nm (8.1 lbf ft)
Spark plug inside	M12x1.25	18 Nm (13.3 lbf ft)
Coolant temperature sensor on the cylinder head	M12x1.5	12 Nm (8.9 lbf ft)
Oil drain plug with magnet	M12x1.5	20 Nm (14.8 lbf ft)
Screw plug, oil pressure control valve	M12x1.5	20 Nm (14.8 lbf ft)
Screw plug, oil channel	M14x1.5	15 Nm (11.1 lbf ft) <b>Loctite®243™</b>
Engine case stud	M16x1.5	25 Nm (18.4 lbf ft) <b>Loctite®243™</b>
Nut, rotor	M18x1.5	100 Nm (73.8 lbf ft) <b>Loctite®243™</b>
Nut, inner clutch hub	M20x1.5	140 Nm (103.3 lbf ft) <b>Loctite®243™</b>
Nut, primary gear wheel	M20LHx1.5	90 Nm (66.4 lbf ft) <b>Loctite®243™</b>
Plug, oil screen	M20x1.5	15 Nm (11.1 lbf ft)
Plug, oil thermostat	M24x1.5	15 Nm (11.1 lbf ft)
Plug, timing chain tensioner	M24x1.5	25 Nm (18.4 lbf ft)
Screw plug, alternator cover	M24x1.5	8 Nm (5.9 lbf ft)

## 22.3 Capacities

### 22.3.1 Engine oil

Engine oil	1.70 l (1.8 qt.)	Engine oil (SAE 10W/50) (p. 132)
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### 22.3.2 Coolant

Coolant	1.20 l (1.27 qt.)	Coolant (p. 132)
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### 22.3.3 Fuel

Fuel tank capacity, approx.	12.4 l (3.28 US gal)	Super unleaded (ROZ 95) (p. 133)
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Fuel reserve, approx.	1.4 l (1.5 qt.)
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## 22.4 Chassis

Frame	Lattice frame made of chrome molybdenum steel tubing, powder-coated	
Fork	<b>WP SuspensionXPLOR 5348</b>	
Shock absorber	<b>WP SuspensionXPLOR 5746</b>	
Suspension travel		
front	250 mm (9.84 in)	
rear	250 mm (9.84 in)	
Brake system		
front	Disc brake with dual-piston brake caliper, floating	
rear	Disc brake with single-piston brake caliper, floating	
Brake discs - diameter		
front	300 mm (11.81 in)	
rear	240 mm (9.45 in)	
Brake discs - wear limit		
front	4.5 mm (0.177 in)	
rear	4.5 mm (0.177 in)	
Tire pressure, road, solo		
front	1.8 bar (26 psi)	
rear	1.8 bar (26 psi)	
Tire pressure with passenger / full payload		
front	2.2 bar (32 psi)	
rear	2.2 bar (32 psi)	
Tire pressure, offroad, solo		
front	1.5 bar (22 psi)	
rear	1.5 bar (22 psi)	
Secondary drive ratio	15:46	
Chain	5/8 x 1/4" X-ring	
Steering head angle	62°	
Wheelbase	1,515 ± 15 mm (59.65 ± 0.59 in)	
Seat height unloaded	919 mm (36.18 in)	

## 22 TECHNICAL SPECIFICATIONS

Ground clearance unloaded	264 mm (10.39 in)
Weight without fuel, approx.	146 kg (322 lb.)
Maximum permissible front axle load	150 kg (331 lb.)
Maximum permissible rear axle load	200 kg (441 lb.)
Maximum permissible overall weight	350 kg (772 lb.)

### 22.5 Electrical system

12-V battery	YTZ10S	Battery voltage: 12 V Nominal capacity: 8.6 Ah Maintenance-free
Fuse	75011088010	10 A
Fuse	58011109125	25 A
Fuse	75011088015	15 A
Fuse	58011109115	15 A
Fuse	58011109130	30 A
Headlight	H4/socket P43t	12 V 60/55 W
Position light	W5W / socket W2.1x9.5d	12 V 5 W
Combination instrument lighting and indicator lamps	LED	
Turn signal	RY10W/socket BAU15s	12 V 10 W
License plate lamp	LED	


### 22.6 Tires

Front tire	Rear tire
<b>90/90 - 21 M/C 54S M+S TT</b> Continental TKC 80	<b>140/80 - 18 M/C 70R M+S TT</b> Continental TKC 80
<p>The tires specified represent one of the possible series production tires. For alternative manufacturers, if any, contact an authorized dealer or qualified tire dealership. If local road approval regulations apply, these and the respective technical specifications must be observed. Additional information is available in the Service section under:</p> <p><a href="http://www.husqvarna-motorcycles.com">www.husqvarna-motorcycles.com</a></p>	


### 22.7 Fork

Fork article number	14.18.8S.10
Fork	<b>WP SuspensionXPLOR 5348</b>
Compression damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	10 clicks
Rebound damping	
Comfort	20 clicks
Standard	15 clicks



Sport	10 clicks	
Full payload	10 clicks	
Spring length with preload spacer(s)	435 mm (17.13 in)	
Spring rate		
Soft	5.3 N/mm (30.3 lb/in)	
Medium (standard)	5.9 N/mm (33.7 lb/in)	
Hard	6.5 N/mm (37.1 lb/in)	
Fork length	895 mm (35.24 in)	
Fork oil per fork leg	640 ml (21.64 fl. oz.)	Fork oil (SAE 4) (48601166S1)  p. 133)

## 22.8 Shock absorber

Shock absorber article number	15.18.7S.10
Shock absorber	<b>WP SuspensionXPLOR 5746</b>
Low-speed compression damping	
Comfort	25 clicks
Standard	20 clicks
Sport	10 clicks
Full payload	10 clicks
High-speed compression damping	
Comfort	2.5 turns
Standard	2 turns
Sport	1 turn
Full payload	1 turn
Rebound damping	
Comfort	23 clicks
Standard	20 clicks
Sport	10 clicks
Full payload	10 clicks
Spring rate	
Soft	66 N/mm (377 lb/in)
Medium (standard)	72 N/mm (411 lb/in)
Hard	81 N/mm (463 lb/in)
Fitted length	395 mm (15.55 in)
Shock absorber fluid (  p. 133)	SAE 2.5

## 22.9 Chassis tightening torques

Rear fairing screw, tail light	<b>EJOT PT®</b> K60x25	2.5 Nm (1.84 lbf ft)
Remaining screws, chassis	<b>EJOT PT®</b> K45x12	1 Nm (0.7 lbf ft)
Remaining screws, chassis	<b>EJOT PT®</b> K50x12	1 Nm (0.7 lbf ft)
Remaining screws, chassis	<b>EJOT PT®</b> K50x14	1 Nm (0.7 lbf ft)
Remaining screws, chassis	<b>EJOT PT®</b> K50x16	2 Nm (1.5 lbf ft)
Remaining screws, chassis	<b>EJOT PT®</b> K50x18	2 Nm (1.5 lbf ft)
Screw, chain guard	<b>EJOT PT®</b> K50x18	1.5 Nm (1.11 lbf ft)

## 22 TECHNICAL SPECIFICATIONS

Screw, combination instrument	<b>EJOT PT®</b> 45x12-Z	1 Nm (0.7 lbf ft)
Screw, combination switch	<b>EJOT PT®</b> K50x18	2 Nm (1.5 lbf ft)
Screw, radiator shield	<b>EJOT PT®</b> K50x14	2 Nm (1.5 lbf ft)
Screw, side stand sensor	<b>EJOT PT®</b> K50x12	1 Nm (0.7 lbf ft)
Fitting, side stand sensor	M4	2 Nm (1.5 lbf ft)
Remaining nuts, chassis	M4	3 Nm (2.2 lbf ft)
Remaining screws, chassis	M4	3 Nm (2.2 lbf ft)
Screw, fixed grip	M4	5 Nm (3.7 lbf ft) <b>Loctite®243™</b>
Spoke nipple, front wheel	M4.5	4 Nm (3 lbf ft)
Rear fairing screw, tail light	M5	3 Nm (2.2 lbf ft)
Remaining nuts, chassis	M5	5 Nm (3.7 lbf ft)
Remaining screws, chassis	M5	5 Nm (3.7 lbf ft)
Screw, brake line holder on frame	M5	2 Nm (1.5 lbf ft)
Screw, brake line holder on link fork	M5	5 Nm (3.7 lbf ft)
Screw, cable on starter motor	M5	3 Nm (2.2 lbf ft)
Screw, combination switch fastening, left	M5	3.5 Nm (2.58 lbf ft)
Screw, combination switch fastening, right	M5	3.5 Nm (2.58 lbf ft)
Screw, combination switch, left	M5	3.5 Nm (2.58 lbf ft)
Screw, electrical holder	M5	3 Nm (2.2 lbf ft)
Screw, exhaust heat shield	M5	8 Nm (5.9 lbf ft) <b>Loctite®243™</b>
Screw, foot brake lever stub	M5	6 Nm (4.4 lbf ft) <b>Loctite®243™</b>
Screw, front spoiler	M5x17	3.5 Nm (2.58 lbf ft)
Screw, fuel level sensor	M5	3 Nm (2.2 lbf ft)
Screw, fuel pump	M5	4 Nm (3 lbf ft)
Screw, fuel tank closure flange	M5	2.5 Nm (1.84 lbf ft)
Screw, headlight mask	M5	5 Nm (3.7 lbf ft)
Screw, license plate holder, bottom	M5	3 Nm (2.2 lbf ft)
Screw, radiator fan cover	M5	3.2 Nm (2.36 lbf ft)
Screw, rear fender	M5	2.5 Nm (1.84 lbf ft)
Screw, rear fender, down to fuel tank	M5	5 Nm (3.7 lbf ft)
Screw, shock absorber adjusting ring	M5	5 Nm (3.7 lbf ft)
Screw, throttle grip	M5	3.5 Nm (2.58 lbf ft)
Screw, trim	M5x12	3.5 Nm (2.58 lbf ft)
Screw, wheel speed sensor holder	M5	3 Nm (2.2 lbf ft)
Screw, rear wiring harness	M5	2 Nm (1.5 lbf ft)
Spoke nipple, rear wheel	M5	4 Nm (3 lbf ft)
Fitting on rear brake cylinder	M6	10 Nm (7.4 lbf ft)
Rear fairing screw	M6	3.5 Nm (2.58 lbf ft)