

**350 SX-F EU**  
**350 SX-F USA**  
**350 XC-F USA**

Art. no. 3206169en



**KTM**



It is important that you read this repair manual carefully and completely before the start of work.

This vehicle can only fulfill the demands placed on it in the long run if the specified service work is performed regularly by qualified experts.

The repair manual was written to correspond to the most current state of this model series. We reserve the right to make changes in the interest of technical advancement without, at the same time, updating this repair manual. We shall not provide a description of general workshop methods. Likewise, safety rules that apply in a workshop are not specified here. It is assumed that repair work will be performed by a fully trained mechanic.

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# TABLE OF CONTENTS

1	MEANS OF REPRESENTATION .....	6	6.12.5	Disassembling the piston rod .....	42
1.1	Symbols used .....	6	6.12.6	Disassembling the hydrostop unit .....	43
1.2	Formats used .....	6	6.12.7	Disassembling the seal ring retainer .....	44
2	SAFETY ADVICE .....	7	6.12.8	Checking the fork legs .....	44
2.1	Repair Manual .....	7	6.12.9	Assembling the seal ring retainer .....	45
2.2	Safety advice .....	7	6.12.10	Assembling the hydrostop unit .....	45
2.3	Degrees of risk and symbols .....	7	6.12.11	Assembling the piston rod .....	46
2.4	Work rules .....	7	6.12.12	Assembling the cartridge .....	47
3	IMPORTANT INFORMATION .....	8	6.12.13	Assembling the fork legs .....	49
3.1	Guarantee, warranty .....	8	6.12.14	Greasing the steering head bearing .....	52
3.2	Operating and auxiliary substances .....	8	6.12.15	Removing the lower triple clamp .....	52
3.3	Spare parts, accessories .....	8	6.12.16	Installing the lower triple clamp .....	53
3.4	Figures .....	8	6.12.17	Checking the steering head bearing play .....	55
4	SERIAL NUMBERS .....	9	6.12.18	Adjusting the play of the steering head bearing .....	55
4.1	Chassis number .....	9	7	HANDLEBAR, CONTROLS .....	56
4.2	Type label .....	9	7.1	Handlebar position .....	56
4.3	Engine number .....	9	7.2	Adjusting the handlebar position .....	56
4.4	Fork part number .....	9	7.3	Adjusting the basic position of the clutch lever .....	56
4.5	Shock absorber part number .....	9	7.4	Checking the throttle cable routing .....	57
5	MOTORCYCLE .....	10	7.5	Checking the play in the throttle cable .....	57
5.1	Raising the motorcycle with the lift stand .....	10	7.6	Adjusting the play in the throttle cable .....	58
5.2	Removing the motorcycle from the lift stand .....	10	8	SHOCK ABSORBER, SWINGARM .....	59
5.3	Starting .....	10	8.1	Adjusting the high-speed compression damping of the shock absorber .....	59
5.4	Starting the motorcycle for a check .....	11	8.2	Adjusting the low-speed compression damping of the shock absorber .....	59
6	FORK, TRIPLE CLAMP .....	12	8.3	Adjusting the rebound damping of the shock absorber .....	60
6.1	Adjusting the compression damping of the fork .....	12	8.4	Measuring rear wheel sag unloaded .....	61
6.2	Adjusting the rebound damping of the fork .....	12	8.5	Checking the static sag of the shock absorber .....	61
6.3	Bleeding the fork legs .....	13	8.6	Checking the riding sag of the shock absorber .....	61
6.4	Cleaning the dust boots of the fork legs .....	14	8.7	Adjusting the spring preload of the shock absorber .....	62
6.5	Loosening the fork protection .....	14	8.8	Adjusting the riding sag .....	62
6.6	Positioning the fork protection .....	14	8.9	Removing the shock absorber .....	63
6.7	Removing the fork legs .....	15	8.10	Installing the shock absorber .....	64
6.8	Installing the fork legs .....	15	8.11	Checking the shock absorber linkage .....	64
6.9	Removing the fork protector .....	16	8.12	Servicing the shock absorber .....	66
6.10	Installing the fork protector .....	16	8.13	Removing the spring .....	66
6.11	All SX-F models .....	16	8.14	Disassembling the damper .....	67
6.11.1	Conducting major fork service .....	16	8.15	Disassembling the piston rod .....	68
6.11.2	Conducting minor fork service .....	17	8.16	Disassembling the seal ring retainer .....	69
6.11.3	Disassembling the fork legs .....	17	8.17	Changing the pilot bushing .....	70
6.11.4	Disassembling the cartridge .....	20	8.18	Checking the damper .....	71
6.11.5	Disassembling the piston rod .....	22	8.19	Removing the heim joint .....	71
6.11.6	Disassembling the screw cap with the membrane holder .....	23	8.20	Installing the heim joint .....	72
6.11.7	Disassembling the screw sleeve .....	24	8.21	Assembling the seal ring retainer .....	73
6.11.8	Checking the fork legs .....	25	8.22	Assembling the piston rod .....	74
6.11.9	Checking the fork legs - during a minor fork service .....	26	8.23	Assembling the damper .....	75
6.11.10	Changing the pilot bushing .....	27	8.24	Bleeding and filling the damper .....	77
6.11.11	Assembling the screw sleeve .....	28	8.25	Filling the damper with nitrogen .....	79
6.11.12	Assembling the screw cap with the membrane holder .....	28	8.26	Installing the spring (SX-F EU) .....	80
6.11.13	Assembling the piston rod .....	29	8.27	Installing the spring (SX-F USA, XC-F) .....	81
6.11.14	Assembling the cartridge .....	31	9	EXHAUST .....	83
6.11.15	Assembling the fork legs .....	32	9.1	Removing the manifold .....	83
6.11.16	Bleeding and filling the cartridge .....	36	9.2	Installing the manifold .....	84
6.11.17	Filling the cartridge with nitrogen .....	37	9.3	Removing the main silencer .....	84
6.12	XC-F .....	38	9.4	Installing the main silencer .....	85
6.12.1	Performing a fork service .....	38	9.5	Changing the glass fiber yarn filling of the main silencer .....	85
6.12.2	Disassembling the fork legs .....	38			
6.12.3	Removing the spring .....	40			
6.12.4	Disassembling the cartridge .....	41			

10	AIR FILTER .....	86	15.3	Checking the free travel of the hand brake lever .....	117
10.1	Removing the air filter box lid .....	86	15.4	Adjusting the basic position of the hand brake lever .....	118
10.2	Installing the air filter box lid .....	86	15.5	Checking the brake fluid level of the front brake .....	118
10.3	Removing the air filter .....	86	15.6	Adding front brake fluid .....	119
10.4	Installing the air filter .....	87	15.7	Changing the front brake fluid .....	120
10.5	Cleaning the air filter and air filter box .....	87	15.8	Checking the rear brake linings .....	121
10.6	Sealing the air filter box .....	88	15.9	Changing the rear brake linings .....	121
10.7	Securing the air filter box lid .....	88	15.10	Checking the free travel of foot brake lever .....	123
11	FUEL TANK, SEAT, TRIM .....	89	15.11	Adjusting the basic position of the foot brake lever .....	123
11.1	Opening the filler cap .....	89	15.12	Checking the rear brake fluid level .....	123
11.2	Closing the filler cap .....	89	15.13	Adding rear brake fluid .....	124
11.3	Removing the seat .....	90	15.14	Changing the rear brake fluid .....	125
11.4	Mounting the seat .....	90	16	ENGINE .....	127
11.5	Removing the fuel tank .....	90	16.1	Removing the engine .....	127
11.6	Installing the fuel tank .....	91	16.2	Installing the engine .....	131
11.7	Checking the fuel pressure .....	92	16.3	Engine disassembly .....	137
11.8	Changing the fuel pump .....	93	16.3.1	Preparations .....	137
11.9	Changing the fuel filter .....	95	16.3.2	Removing the clutch push rod .....	137
11.10	Changing the fuel screen .....	97	16.3.3	Removing the spacer .....	137
12	MASK, FENDER .....	99	16.3.4	Draining the engine oil .....	137
12.1	Removing the front fender .....	99	16.3.5	Removing the oil filter .....	138
12.2	Installing the front fender .....	99	16.3.6	Removing the spark plug .....	138
12.3	Removing the start number plate .....	99	16.3.7	Removing the valve cover .....	138
12.4	Installing the start number plate .....	100	16.3.8	Removing the starter motor .....	139
13	WHEELS .....	101	16.3.9	Positioning the engine at ignition top dead center .....	140
13.1	Checking the tire air pressure .....	101	16.3.10	Removing the timing chain tensioner .....	140
13.2	Checking the tire condition .....	101	16.3.11	Removing the camshaft .....	140
13.3	Checking the brake discs .....	101	16.3.12	Removing the cylinder head .....	141
13.4	Checking the spoke tension .....	102	16.3.13	Removing the piston .....	141
13.5	Front wheel .....	102	16.3.14	Removing the rotor .....	142
13.5.1	Removing the front wheel .....	102	16.3.15	Removing the starter drive .....	142
13.5.2	Installing the front wheel .....	103	16.3.16	Removing the suction pump .....	143
13.5.3	Removing the brake disc of the front brake .....	104	16.3.17	Removing the water pump wheel .....	143
13.5.4	Installing the brake disc of the front brake .....	104	16.3.18	Removing the clutch cover .....	144
13.6	Rear wheel .....	104	16.3.19	Removing the clutch discs .....	144
13.6.1	Removing the rear wheel .....	104	16.3.20	Removing the outer clutch hub .....	144
13.6.2	Installing the rear wheel .....	105	16.3.21	Removing the shift shaft .....	145
13.6.3	Removing the brake disc of the rear brake .....	106	16.3.22	Removing the shift drum locating unit .....	145
13.6.4	Installing the brake disc of the rear brake .....	106	16.3.23	Removing the locking lever .....	145
13.6.5	Checking the chain tension .....	106	16.3.24	Removing the force pump .....	146
13.6.6	Adjusting the chain tension .....	107	16.3.25	Removing the primary gear .....	146
13.6.7	Checking the chain, rear sprocket, engine sprocket, and chain guide .....	107	16.3.26	Removing the timing chain .....	147
13.6.8	Checking for chain dirt accumulation .....	109	16.3.27	Removing the spacer .....	147
13.6.9	Cleaning the chain .....	109	16.3.28	Removing the left section of the engine case .....	147
14	WIRING HARNESS, BATTERY .....	111	16.3.29	Removing the shift rails .....	148
14.1	Removing the main fuse .....	111	16.3.30	Removing the shift drum .....	148
14.2	Installing the main fuse .....	111	16.3.31	Removing the shift forks .....	148
14.3	Removing the battery .....	111	16.3.32	Removing the transmission shafts .....	148
14.4	Installing the battery .....	112	16.3.33	Removing the crankshaft .....	149
14.5	Charging the battery .....	112	16.4	Work on individual parts .....	149
14.6	Checking the charging voltage .....	113	16.4.1	Work on the right section of the engine case .....	149
14.7	Checking the quiescent current .....	114	16.4.2	Work on the left section of the engine case .....	150
14.8	Checking the capacitor .....	114	16.4.3	Work on the clutch cover .....	151
14.9	Checking the starter relay .....	114	16.4.4	Checking the oil pressure regulator valve .....	152
15	BRAKE SYSTEM .....	116			
15.1	Checking the front brake linings .....	116			
15.2	Changing the front brake linings .....	116			

16.4.5	Checking the lubrication system.....	153	16.5.17	Installing the clutch cover .....	186
16.4.6	Removing the crankshaft bearing inner race.....	154	16.5.18	Installing the water pump cover.....	186
16.4.7	Changing the connecting rod, conrod bearing, and crank pin .....	154	16.5.19	Installing the starter drive .....	187
16.4.8	Checking the crankshaft run-out at the bearing pin.....	155	16.5.20	Installing the rotor and ignition pulse generator .....	187
16.4.9	Installing the crankshaft bearing inner race.....	155	16.5.21	Installing the piston .....	188
16.4.10	Measuring the crankshaft end play .....	156	16.5.22	Installing the cylinder head.....	189
16.4.11	Removing the drive wheel of the balancer shaft.....	156	16.5.23	Installing the camshafts .....	190
16.4.12	Installing the drive wheel of the balancer shaft.....	157	16.5.24	Checking the valve timing.....	190
16.4.13	Cylinder - Nikasil® coating .....	157	16.5.25	Adjusting the valve timing .....	191
16.4.14	Checking/measuring the cylinder .....	157	16.5.26	Installing the timing chain tensioner.....	192
16.4.15	Checking/measuring the piston.....	158	16.5.27	Checking the valve clearance .....	193
16.4.16	Measuring the piston/cylinder mounting clearance.....	158	16.5.28	Adjusting the valve clearance.....	193
16.4.17	Checking the piston ring end gap .....	159	16.5.29	Installing the starter motor.....	194
16.4.18	Changing the camshaft bearing .....	159	16.5.30	Installing the valve cover .....	195
16.4.19	Checking the camshafts .....	160	16.5.31	Installing the spark plug .....	195
16.4.20	Checking the pivot points of the camshafts .....	160	16.5.32	Installing the oil filter.....	195
16.4.21	Removing the valves.....	161	16.5.33	Installing the oil screen .....	196
16.4.22	Checking the valves .....	162	16.5.34	Installing the spacer.....	197
16.4.23	Checking the valve springs.....	162	16.5.35	Installing the clutch push rod .....	197
16.4.24	Checking the valve spring seat .....	162	16.5.36	Removing the engine from the engine assembly stand.....	197
16.4.25	Checking the cam levers.....	163	17	CLUTCH.....	198
16.4.26	Checking the cylinder head.....	163	17.1	Checking/correcting the fluid level of the hydraulic clutch.....	198
16.4.27	Installing the valves .....	163	17.2	Changing the hydraulic clutch fluid .....	198
16.4.28	Checking the freewheel .....	164	18	WATER PUMP, COOLING SYSTEM .....	199
16.4.29	Removing the freewheel .....	165	18.1	Cooling system .....	199
16.4.30	Installing the freewheel .....	165	18.2	Checking the antifreeze and coolant level .....	199
16.4.31	Checking the electric starter drive .....	166	18.3	Checking the coolant level .....	199
16.4.32	Checking the timing assembly.....	167	18.4	Draining the coolant.....	200
16.4.33	Preparing the timing chain tensioner for installation.....	168	18.5	Refilling coolant .....	201
16.4.34	Checking the clutch .....	168	19	LUBRICATION SYSTEM.....	202
16.4.35	Checking the shift mechanism .....	170	19.1	Oil circuit.....	202
16.4.36	Preassembling the shift shaft.....	171	19.2	Checking the engine oil level.....	202
16.4.37	Disassembling the main shaft .....	171	19.3	Changing the engine oil and oil filter, cleaning the oil screen.....	203
16.4.38	Disassembling the countershaft.....	172	19.4	Adding engine oil .....	204
16.4.39	Checking the transmission .....	173	19.5	Checking the engine oil pressure .....	205
16.4.40	Assembling the main shaft.....	175	20	IGNITION SYSTEM.....	207
16.4.41	Assembling the countershaft.....	177	20.1	Ignition coil - checking the secondary winding.....	207
16.5	Engine assembly.....	179	20.2	Checking the spark plug connector .....	207
16.5.1	Installing the crankshaft.....	179	20.3	Alternator - checking stator winding.....	207
16.5.2	Installing the transmission shafts .....	179	20.4	Removing the stator and ignition pulse generator.....	208
16.5.3	Installing the shift forks.....	180	20.5	Installing the stator and ignition pulse generator.....	208
16.5.4	Installing the shift drum .....	180	21	THROTTLE VALVE BODY .....	209
16.5.5	Installing the shift rails .....	180	21.1	Adjusting the idle speed .....	209
16.5.6	Installing the left engine case .....	181	21.2	Executing the initialization run .....	209
16.5.7	Installing the spacer.....	181	22	TECHNICAL DATA.....	210
16.5.8	Installing the timing chain .....	182	22.1	Engine .....	210
16.5.9	Installing the primary gear .....	182	22.2	Engine tolerance, wear limits .....	211
16.5.10	Installing the force pump.....	182	22.3	Engine tightening torques.....	211
16.5.11	Installing the suction pump .....	183	22.4	Capacities .....	213
16.5.12	Installing the locking lever.....	184	22.4.1	Engine oil .....	213
16.5.13	Installing the shift drum locating unit .....	184	22.4.2	Coolant.....	213
16.5.14	Installing the shift shaft .....	184	22.4.3	Fuel .....	213
16.5.15	Installing the outer clutch hub .....	184	22.5	Chassis .....	213
16.5.16	Installing the clutch discs.....	185	22.6	Electrical system.....	214
			22.7	Tires.....	214

# TABLE OF CONTENTS

22.8	Fork.....	214
22.8.1	SX-F EU.....	214
22.8.2	SX-F USA.....	215
22.8.3	XC-F.....	215
22.9	Shock absorber.....	215
22.9.1	SX-F EU.....	215
22.9.2	SX-F USA.....	216
22.9.3	XC-F.....	216
22.10	Chassis tightening torques.....	217
23	CLEANING.....	219
23.1	Cleaning the motorcycle.....	219
24	STORAGE.....	220
24.1	Storage.....	220
24.2	Preparing for use after storage.....	220
25	SERVICE SCHEDULE.....	221
25.1	Service schedule.....	221
25.2	Service work (as additional order).....	222
26	WIRING DIAGRAM.....	224
26.1	Page 1 of 3 (All SX-F models).....	224
26.2	Page 2 of 3 (All SX-F models).....	226
26.3	Page 3 of 3 (All SX-F models).....	228
26.4	Page 1 of 3 (XC-F).....	230
26.5	Page 2 of 3 (XC-F).....	232
26.6	Page 3 of 3 (XC-F).....	234
27	SUBSTANCES.....	236
28	AUXILIARY SUBSTANCES.....	238
29	SPECIAL TOOLS.....	240
30	STANDARDS.....	255
	INDEX.....	256

## 1.1 Symbols used

The meaning of specific symbols is described below.



Indicates an expected reaction (e.g. of a work step or a function).



Indicates an unexpected reaction (e.g. of a work step or a function).



Indicates a page reference (more information is provided on the specified page).



Indicates information with more details or tips.



Indicates the result of a testing step.



Denotes a voltage measurement.



Denotes a current measurement.



Denotes a resistance measurement.

## 1.2 Formats used

The typographical formats used in this document are explained below.

**Proprietary name** Identifies a proprietary name.

**Name<sup>®</sup>** Identifies a protected name.

**Brand<sup>™</sup>** Identifies a trademark.

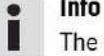
## 2.1 Repair Manual

Read this Repair Manual carefully and thoroughly before beginning work. It contains useful information and tips that will help you repair and maintain your vehicle.

This manual assumes that the necessary special KTM tools and KTM workplace and workshop equipment are available.

## 2.2 Safety advice

A number of safety instructions need to be followed to operate the vehicle safely. Therefore, read this manual carefully. The safety instructions are highlighted in the text and are referred to at the relevant passages.



### Info

The vehicle has various information and warning labels at prominent locations. Do not remove information/warning labels. If they are missing, you or others may not recognize dangers and may therefore be injured.

## 2.3 Degrees of risk and symbols



### Danger

Identifies a danger that will immediately and invariably lead to fatal or serious permanent injury if the appropriate measures are not taken.



### Warning

Identifies a danger that is likely to lead to fatal or serious injury if the appropriate measures are not taken.



### Caution

Identifies a danger that may lead to minor injuries if the appropriate measures are not taken.

### Note

Identifies a danger that will lead to considerable machine and material damage if the appropriate measures are not taken.



### Warning

Identifies a danger that will lead to environmental damage if the appropriate measures are not taken.

## 2.4 Work rules

Special tools are necessary for certain tasks. The tools are not contained in the vehicle but can be ordered under the number in parentheses. E.g.: bearing puller (15112017000)

During assembly, non-reusable parts (e.g. self-locking screws and nuts, seals and seal rings, O-rings, pins, lock washers) must be replaced by new parts.

In some instances, a thread locker (e.g. **Loctite**®) is required. The manufacturer instructions for use must be followed.

After disassembly, clean the parts that are to be reused and check them for damage and wear. Change damaged or worn parts.

After you complete the repair or service work, check the operating safety of the vehicle.

## 3.1 Guarantee, warranty

The work prescribed in the service schedule must be carried out by an authorized KTM workshop only and confirmed in the customer's Service & Warranty Booklet and in the **KTM dealer.net**; otherwise, all warranty claims will be void. No warranty claims can be considered for damage resulting from manipulations and/or alterations to the vehicle.

Additional information on the guarantee or warranty and the procedures involved can be found in the Service & Warranty Booklet.

## 3.2 Operating and auxiliary substances



### Warning

**Environmental hazard** Improper handling of fuel is a danger to the environment.

- Do not allow fuel to get into the ground water, the ground, or the sewage system.

Use the operating and auxiliary substances (such as fuel and lubricants) as specified in the manual.

## 3.3 Spare parts, accessories

Only use spare parts and accessories approved and/or recommended by KTM. KTM accepts no liability for other products and any resulting damage or loss.

The current **KTM PowerParts** for your vehicle can be found on the KTM website.

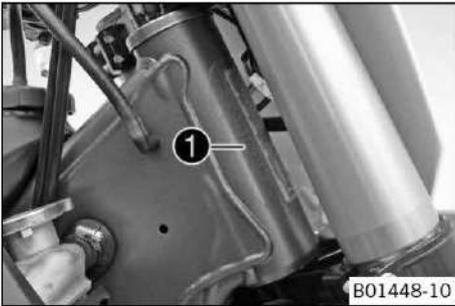
International KTM Website: <http://www.ktm.com>

## 3.4 Figures

The figures contained in the manual may depict special equipment.

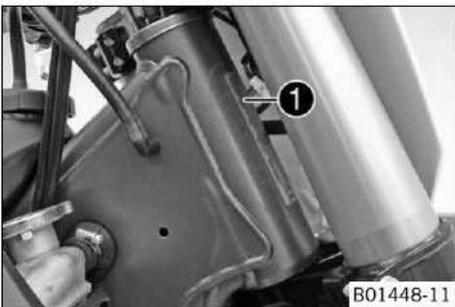
In the interest of clarity, some components may be shown disassembled or may not be shown at all. It is not always necessary to disassemble the component to perform the activity in question. Please follow the instructions in the text.

## 4.1 Chassis number



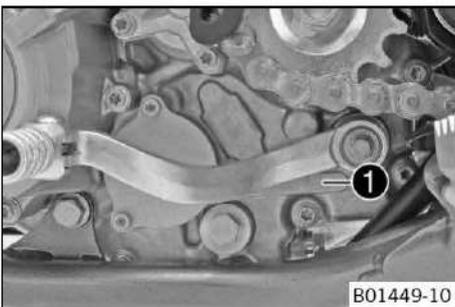
The chassis number ❶ is stamped on the right side of the steering head.

## 4.2 Type label



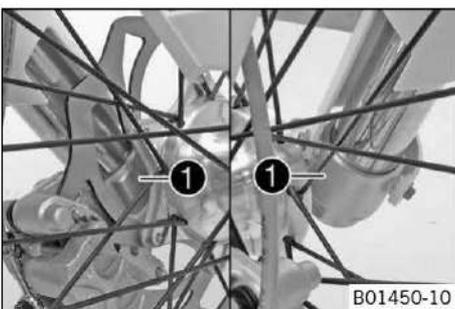
The type label ❶ is fixed to the front of the steering head.

## 4.3 Engine number



The engine number ❶ is stamped on the left side of the engine under the engine sprocket.

## 4.4 Fork part number



The fork part number ❶ is stamped on the inner side of the axle clamp.

## 4.5 Shock absorber part number



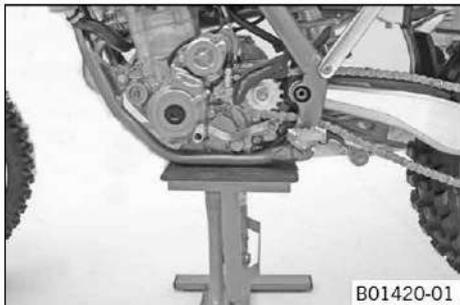
The shock absorber part number ❶ is stamped on the top of the shock absorber above the adjusting ring on the engine side.

## 5.1 Raising the motorcycle with the lift stand

**Note**

**Danger of damage** The parked vehicle may roll away or fall over.

- Always place the vehicle on a firm and even surface.



- Raise the motorcycle at the frame underneath the engine.
  - ✓ The wheels must no longer touch the ground.
- Secure the motorcycle against falling over.

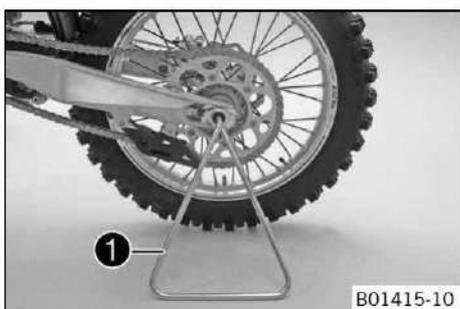
Lift stand (54829055000) (☛ p. 241)

## 5.2 Removing the motorcycle from the lift stand

**Note**

**Danger of damage** The parked vehicle may roll away or fall over.

- Always place the vehicle on a firm and even surface.



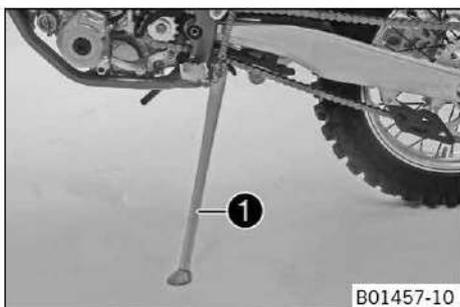
**(All SX-F models)**

- Remove the motorcycle from the lift stand.
- Remove the lift stand.
- To park the motorcycle, insert plug-in stand ❶ into the left side of the wheel spindle.



**Info**

Remove the plug-in stand before riding.



**(XC-F)**

- Remove the motorcycle from the lift stand.
- Remove the lift stand.
- To park the motorcycle, press side stand ❶ to the ground with your foot and lean the motorcycle on it.



**Info**

When you are riding, the side stand must be folded up and secured with the rubber band.

## 5.3 Starting



**Danger**

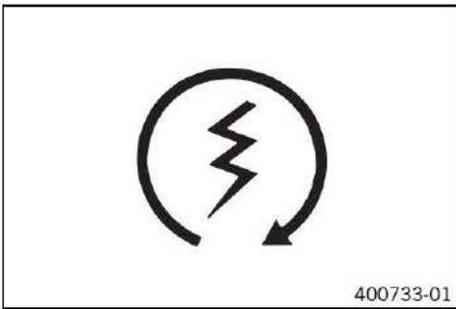
**Danger of poisoning** Exhaust gases are toxic and inhaling them may result in unconsciousness and/or death.

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.

**Note**

**Engine failure** High engine speeds in cold engines have a negative effect on the service life of the engine.

- Always warm up the engine at low engine speeds.



**(All SX-F models)**

- Remove the plug-in stand.

**(XC-F)**

- Raise the motorcycle off of the stand and secure the stand with the rubber band.
- Shift gear to neutral.

**Condition**

Ambient temperature: < 20 °C (< 68 °F)

- Pull the cold start button out all the way.
- Press the electric starter button (ⓘ).



**Info**

Press the electric starter button for at most 5 seconds. Wait for a least 5 seconds before trying again.

FI warning lamp lights up briefly as a functional control when starting.

## 5.4 Starting the motorcycle for a check



**Danger**

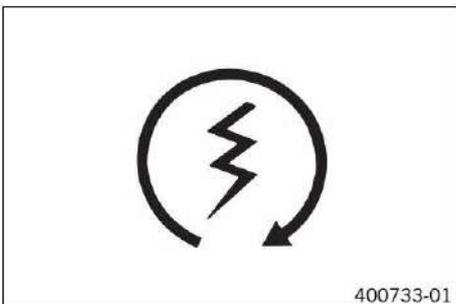
**Danger of poisoning** Exhaust gases are toxic and inhaling them may result in unconsciousness and/or death.

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.



**Info**

Press the starter for a maximum of 5 seconds. Wait for at least 5 seconds before trying again.



- Shift gear to neutral.
- Press the electric starter button (ⓘ).



**Info**

Do not open the throttle.