OWNER'S MANUAL 2019





Art. no. 3213911en





DEAR KTM CUSTOMER

Congratulations on your decision to purchase a KTM motorcycle. You are now the owner of a state-of-the-art sports vehicle that will continue giving you pleasure for a long time if you maintain it properly.

We wish you good and safe riding at all times!

Please enter the serial numbers of your vehicle below.

Vehicle identification number (🕮 p. 26)	Dealer's stamp
	_
Engine number (🕮 p. 27)	
Key number (🕮 p. 27)	-
They mainled (vv p. 27)	

The Owner's Manual contained the latest information for this model series at the time of going to print. However, minor differences due to further developments in design cannot be ruled out completely.

All specifications are non-binding. KTM Sportmotorcycle GmbH specifically reserves the right to modify or delete technical specifications, prices, colors, forms, materials, services, designs, equipment, etc., without prior notice and without specifying reasons, to adapt these to local conditions, as well as to stop production of a particular model without prior notice. KTM accepts no liability for delivery options, deviations from figures and descriptions, misprints, and other errors. The models portrayed partly contain special equipment that does not belong to the regular scope of supply.

© 2018 KTM Sportmotorcycle GmbH, Mattighofen Austria All rights reserved



DEAR KTM CUSTOMER

Reproduction, even in part, as well as copying of all kinds, is permitted only with the express written permission of the copyright owner.



ISO 9001(12 100 6061)

KTM applies quality assurance processes that lead to the highest possible product quality as defined in the ISO 9001 international quality management standard. Issued by: TÜV Management Service

REG.NO. 12 100 6061

KTM Sportmotorcycle GmbH Stallhofnerstraße 3 5230 Mattighofen, Austria

This document is valid for the following models: 1290 Super Adventure S EU (F9903S4, F9903S5) 1290 Super Adventure S JP (F9986S4)

1290 Super Adventure S CN (F9987S4)

1	MEANS	S OF REPRESENTATION	10	4	VIEW O	F VEHICLE	22
	1.1 1.2	Symbols used			4.1 4.2	View of vehicle, front left (example) View of vehicle, rear right	
2	SAFET	Y ADVICE	12			(example)	
	2.1	Use definition – intended use	12	5	SERIAL	NUMBERS	26
	2.2	Misuse			5.1	Vehicle identification number	26
	2.3	Safety advice	12		5.2	Type label	26
	2.4	Degrees of risk and symbols	13		5.3	Key number	27
	2.5	Tampering warning			5.4	Engine number	27
	2.6	Safe operation	14		5.5	Fork part number	28
	2.7	Protective clothing	16		5.6	Shock absorber article number	28
	2.8	Work rules	16		5.7	Steering damper article number	29
	2.9 2.10	Environment Owner's Manual		6	CONTR	OLS	30
_					6.1	Clutch lever	30
3	IMPOR	TANT NOTES	18		6.2	Hand brake lever	30
	3.1	Manufacturer warranty	18		6.3	Throttle grip	31
	3.2	Fuel, auxiliary substances	18		6.4	Combination switch, left side	31
	3.3	Spare parts, accessories	18		6.5	Light switch	32
	3.4	Service	19		6.6	Cruise control system tip switch	33
	3.5	Figures	19		6.7	Menu switch	36
	3.6	Customer service	19		6.8	Turn signal switch	36
					6.9	Horn button	38
					6.10	Combination switch, right	38

6.11	Hazard warning flasher switch	39	7.2	Activation and test	57
6.12	Emergency OFF switch/electric		7.3	Day-Night mode	59
	starter button	40	7.4	Warnings	60
6.13	Race-on tip switch	41	7.5	Ice warning	61
6.14	Steering lock (antenna)	42	7.6	Indicator lamps	62
6.15	Immobilizer	43	7.7	Display	66
6.16	Race-on key	43	7.8	Speed	68
6.17	Socket for electrical accessories	44	7.9	Shift warning light	69
6.18	USB socket	45	7.10	Cruise control indicator	70
6.19	Opening fuel tank filler cap	45	7.11	Speed	71
6.20	Closing the fuel tank filler cap	47	7.12	ABS display	71
6.21	Fuel cocks	48	7.13	MTC display	72
6.22	Opening storage compartment	48	7.14	Ride display	72
6.23	Closing storage compartment	49	7.15	Damp display	73
6.24	Seat lock	49	7.16	Heated grip (optional)	73
6.25	Grab handles	50	7.17	Seat heater (optional)	74
6.26	Luggage rack plate	50	7.18	Load display	74
6.27	Case holders		7.19	Coolant temperature indicator	75
6.28	Passenger foot pegs	52	7.20	Fuel level display	75
6.29	Shift lever	52	7.21	Ambient air temperature indicator	76
6.30	Foot brake lever		7.22	Time	77
6.31	Side stand		7.23	Favourites display	77
6.32	Center stand	55	7.24	Quick Selector 1 display	78
COMBI	NATION INSTRUMENT	56	7.25	Quick Selector 2 display	78
COMIDI			7.26	Navigation display (optional)	79
7 1	Combination instrument	56			

7.27	Menu	80	7.27.25	Load	107
7.27.1	KTM MY RIDE (optional)	80	7.27.26	Damping	108
7.27.2	Audio (optional)	81	7.27.27	Ride Mode	109
7.27.3	Navigation (optional)	83	7.27.28	MTC	110
7.27.4	Navigation setup (optional)	84	7.27.29	MTC+MSR (optional)	111
7.27.5	Navigation information		7.27.30	ABS	112
	(optional)	86	7.27.31	HHC (optional)	114
7.27.6	Volume (optional)	87	7.27.32	Settings	114
7.27.7	Setup (optional)	88	7.27.33	Favourites	115
7.27.8	Bluetooth (optional)	89	7.27.34	Navi Info Screen	115
7.27.9	Phone (optional)	90	7.27.35	Quick Selector 1	116
7.27.10	Headset Rider (optional)	92	7.27.36	Quick Selector 2	117
7.27.11	Headset Pass. (optional)	94	7.27.37	Preferences	118
7.27.12	Wireless Interface	96	7.27.38	Units	118
7.27.13	Telephony (optional)	97	7.27.39	Distance	119
7.27.14	Info	98	7.27.40	Temperature	119
7.27.15	Trip 1	99	7.27.41	Pressure	120
7.27.16			7.27.42	Consumption	121
7.27.17	General Info	101	7.27.43	Language	121
7.27.18	TPMS	101	7.27.44	Shift Light	122
7.27.19	8		7.27.45	Setting the time and date	123
7.27.20	Service	103	7.27.46	DRL	125
7.27.21	Extra Functions	104	7.27.47	Quickshifter + (optional)	126
7.27.22	Motorcycle	105	7.27.48	Heated Grips (optional)	127
7.27.23	Heated Grips (optional)	105	7.27.49	Heated Seat Rid (optional)	127
7.27.24	Heated Seat (optional)	106	7.27.50	Heated Seat Pas (optional)	128

	7.27.5	1 Cornering Light Test	128		9.2	Running in the engine	
3	ERGON	NOMICS	130		9.3	Loading the vehicle	149
	8.1	Setting the front rider's seat	130	10	RIDING	INSTRUCTIONS	152
	8.2	Handlebar position			10.1	Checks and maintenance measures	
	8.3	Adjusting the handlebar	101		10.1	when preparing for use	152
	0.0	position 4	131		10.2	Starting	
	8.4	Adjusting the windshield			10.3	Starting off	
	8.5	Adjusting the basic position of the			10.4	Quickshifter + (optional)	
		clutch lever	135		10.5	Starting off with HHC (optional)	
	8.6	Adjusting the basic position of the			10.6	Shifting, riding	
		hand brake lever	136		10.7	MSR (optional)	165
	8.7	Rider footrests	136		10.8	Applying the brakes	165
	8.8	Adjusting the footrests 4	137		10.9	Stopping, parking	168
	8.9	Checking the basic position of the			10.10	Transporting	170
		shift lever	140		10.11	Refueling	171
	8.10	Adjusting the basic position of the shift lever 4	141	11	SERVIC	CE SCHEDULE	174
	8.11	Setting the shift lever stub	143		11.1	Additional information	174
	8.12	Adjusting the basic position of the			11.2	Required work	174
		foot brake lever 🔦	144		11.3	Recommended work	
	8.13	Adjusting the tilt of the combination instrument	145	12	SUSPE	NSION SETTING	178
9	PREPA	RING FOR USE	147		12.1 12.2	Fork/shock absorber Load	
	9.1	Advice on preparing for first use	147		12.3	Damping	

SERVIC	CE WORK ON THE CHASSIS	180		13.18	Removing the mask spoiler ◄	200
13 1	Raising the vehicle with the center			13.19	Installing the mask spoiler 🔌	204
13.1	_	180		13.20	Removing front fender	207
13.2		100		13.21	Installing front fender	207
15.2	_	181		13.22	Cleaning the dust boots of the fork	
133					legs ◀	208
				13.23	Removing the fuel tank cover	209
				13.24	Installing the fuel tank cover	212
	_			13.25	Removing the windshield	214
				13.26	Installing the windshield	214
				13.27	Removing the engine guard	215
				13.28	Installing the engine guard	215
	_		1/	BRAKE	SYSTEM	216
		100	17			
15.11	<u> </u>	190				
13 12		130		14.2	Checking the brake discs	219
15.12		193		14.3	Checking the front brake fluid	
13 13		130				
10.10		195			_	
13.14		130		14.5	_	224
		197		14.6	_	
13.15						
10.10		198			_	
13.16				14.8	Checking the rear brake linings	229
	13.1 13.2 13.3 13.4 13.5 13.6 13.7 13.8 13.9 13.10 13.11 13.12 13.13 13.14 13.15 13.16	13.1 Raising the vehicle with the center stand	stand 180 13.2 Removing the vehicle from the center stand 181 13.3 Removing the passenger seat 182 13.4 Mounting the passenger seat 182 13.5 Removing the front rider's seat 183 13.6 Mounting the front rider's seat 184 13.7 Checking for chain dirt 185 13.8 Cleaning the chain dirt 185 13.9 Checking the chain tension 187 13.10 Adjusting the chain tension 188 13.11 Checking the chain, rear sprocket, and engine sprocket 190 13.12 Checking/correcting the fluid level of the hydraulic clutch 193 13.13 Checking steering head bearing play 195 13.14 Removing the bottom triple clamp cover 197 13.15 Installing the bottom triple clamp cover 198 13.16 Removing the front side cover 199	13.1 Raising the vehicle with the center stand	13.1 Raising the vehicle with the center stand	13.1 Raising the vehicle with the center stand

15	WHEEL	LS, TIRES	230		16.13	ACC1 and ACC2 rear	271
	15.1	Removing the front wheel 4	230	17	COOLIN	NG SYSTEM	272
	15.2 15.3 15.4 15.5	Installing the front wheel	236 239		17.1 17.2	Checking the coolant level in the compensating tank	
	15.6	Checking the tire condition		18	TUNIN	G THE ENGINE	277
	15.7 15.8	Checking tire pressure			18.1 18.2	Ride Mode	
16	ELECTI	RICAL SYSTEM	248	19	SERVIC	CE WORK ON THE ENGINE	279
	16.1 16.2 16.3 16.4 16.5	Daytime running light (DRL)	249 250 252		19.1 19.2 19.3	Checking the engine oil level	280
	16.6	Changing the Race-on key battery		20	CLEAN	ING, CARE	290
	16.7 16.8	Changing the main fuse Changing the fuses in the fuse box	261264		20.1 20.2	Cleaning the motorcycle Checks and maintenance steps for winter operation	
	16.9 16.10	Checking the headlight setting Adjusting the headlight range		21	STORA	GE	295
	16.11	Diagnostics connector	270		21.1 21.2	Storage Preparing for use after storage	

22	TROUB	LESHOOTING	298	2
23	TECHN	ICAL DATA	302	2
	23.1	Engine	302	2
	23.2	Engine tightening torques	304	3
	23.3	Capacities	309	J
	23.3.1	Engine oil	309	3
	23.3.2	Coolant	309	
	23.3.3	Fuel	310	
	23.4	Chassis	310	
	23.5	Electrical system	312	
	23.6	Tires	313	П
	23.7	Fork	313	
	23.8	Shock absorber	314	
	23.9	Chassis tightening torques	314	
24	DECLA	RATIONS OF CONFORMITY	320	
	24.1 24.2	Declarations of conformity	320	
		conformity	322	
25	OPEN S	SOURCE	323	
	25.1	Information on open source		
		software	323	
26	SUBST	ANCES	324	

27	AUXILI	ARY SUBSTANCES	328	
28	STAND	ARDS	330	
29	INDEX OF SPECIAL TERMS 3			
30	LIST O	F ABBREVIATIONS	333	
31	LIST O	F SYMBOLS	334	
		Red symbols		
	31.2	Yellow and orange symbols	334	
	31.3	Green and blue symbols	33	
IND	EX		336	

1 MEANS OF REPRESENTATION

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).



All work marked with this symbol requires specialist knowledge and technical understanding. In the interest of your own safety, have these jobs performed by an authorized KTM workshop! Your motorcycle will be optimally cared for there by specially trained experts using the auxiliary tools required.



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.



Indicates a voltage measurement.



Indicates a current measurement.



Indicates the end of an activity, including potential rework.

1.2 Formats used

The typographical formats used in this document are explained below.

Proprietary name Ind	icates a	proprietary	/ name.
----------------------	----------	-------------	---------

Name® Indicates a protected name.

Brand™ Indicates a brand available on the open market.

<u>Underlined terms</u>

Refer to technical details of the vehicle or indicate technical terms, which are explained in the glossary.

11

2 SAFETY ADVICE

2.1 Use definition – intended use

The vehicle is designed and constructed to withstand the usual demands of regular traffic and use on gentle terrain (unpaved roads). This vehicle is not suitable for use on race tracks.



Info

This vehicle is only authorized for operation on public roads in its homologated version.

2.2 Misuse

The vehicle must only be used as intended.

Dangers can arise for people, property and the environment through use not as intended.

Any use of the vehicle beyond the intended and defined use constitutes misuse.

Misuse also includes the use of operating and auxiliary fluids which do not meet the required specification for the respective use.

2.3 Safety advice

A number of safety instructions need to be followed to operate the product described safely. Therefore read this instruction and all further instructions included carefully. The safety instructions are highlighted in the text and are referred to at the relevant passages.

Info

Various information and warning labels are attached in prominent locations on the product described. Do not remove any information or warning labels. If they are missing, you or others may not recognize dangers and may therefore be injured.

2.4 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.



Note

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

2 SAFETY ADVICE

2.5 Tampering warning

Tampering with the noise control system is prohibited. Federal law prohibits the following acts or the causing thereof:

- 1 The removal or rendering inoperative by any person other than for purposes of servicing, repair, or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use, or
- the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

Among those acts presumed to constitute tampering are the acts listed below:

- 1 Removal or puncturing of the main silencers, baffles, header pipes or any other components which conduct exhaust gases.
- 2 Removal or puncturing of parts of the intake system.
- 3 Lack of proper maintenance.
- 4 Replacing moving parts of the vehicle, or parts of the exhaust system or intake system, with parts other than those specified by the manufacturer.

2.6 Safe operation



Danger

Danger of accidents A rider who is not fit to ride poses a danger to him or herself and others.

- Do not operate the vehicle if you are not fit to ride due to alcohol, drugs or medication.
- Do not operate the vehicle if you are physically or mentally impaired.



Danger

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

- Always make sure there is sufficient ventilation when running the engine.
- Use effective exhaust extraction when starting or running the engine in an enclosed space.



Warning

Danger of burns Some vehicle components become very hot when the vehicle is operated.

- Do not touch any parts such as the exhaust system, radiator, engine, shock absorber, or brake system before the vehicle parts have cooled down.
- Let the vehicle parts cool down before you perform any work on the vehicle.

Only operate the vehicle when it is in perfect technical condition, in accordance with its intended use, and in a safe and environmentally compatible manner.

The vehicle should only be used by trained persons. An appropriate driver's license is needed to ride the vehicle on public roads.

Have malfunctions that impair safety promptly eliminated by an authorized KTM workshop.

Adhere to the information and warning labels on the vehicle.

2 SAFETY ADVICE

2.7 Protective clothing



Warning

Risk of injury Missing or poor protective clothing presents an increased safety risk.

- Wear appropriate protective clothing such as helmet, boots, gloves as well as trousers and a jacket with protectors on all rides.
- Always wear protective clothing that is in good condition and meets the legal regulations.

In the interest of your own safety, KTM recommends that you only operate the vehicle while wearing protective clothing.

2.8 Work rules

Special tools are necessary for certain tasks. The tools are not a component of the vehicle, but can be ordered using the number in parentheses. Example: valve spring mounter (59029019000)

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.

Where thread lockers are used on screw connections (e.g. Loctite®), follow the instructions for use from the manufacturer.

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

After repairs or servicing, the vehicle must be checked to ensure that it is roadworthy.

2.9 Environment

If you use your motorcycle responsibly, you can ensure that problems and conflicts do not occur. To protect the future of the motorcycle sport, make sure that you use your motorcycle legally, display environmental consciousness, and respect the rights of others.

When disposing of used oil, other operating and auxiliary fluids, and used components, comply with the laws and regulations of the respective country.

Because motorcycles are not subject to the EU regulations governing the disposal of used vehicles, there are no legal regulations that pertain to the disposal of an end-of-life motorcycle. Your authorized KTM dealer will be glad to advise you.

2.10 Owner's Manual

It is important that you read this Owner's Manual carefully and completely before making your first trip. The Owner's Manual contains useful information and many tips on how to operate, handle, and service your motorcycle. Only then will you find out how to customize the vehicle ideally for your own use and how you can protect yourself from injury.

Keep the Owner's Manual in an accessible place to enable you to refer to it as needed.

If you would like to know more about the vehicle or have questions on the material you read, please contact an authorized KTM dealer.

The Owner's Manual is an important component of the vehicle and must be handed over to the new owner if the vehicle is sold.

The Owner's Manual is also available for download from your authorized KTM dealer and on the KTM website. International KTM Website: http://www.ktm.com

3 IMPORTANT NOTES

3.1 Manufacturer warranty

The work specified in the service schedule may only be performed in an authorized KTM workshop and must be recorded in both the Service & Warranty Booklet and in the **KTM Dealer.net**, otherwise any warranty claim will be void. Damage or secondary damage caused by tampering with and/or conversions on the vehicle is not covered by the manufacturer warranty.

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

3.2 Fuel, auxiliary substances



Note

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

- Do not allow fuel to enter the groundwater, the soil, or the sewage system.

Use fuels and auxiliary substances in accordance with the Owner's Manual and specification.

3.3 Spare parts, accessories

For your own safety, only use spare parts and accessory products that are approved and/or recommended by KTM and have them installed by an authorized KTM workshop. KTM accepts no liability for other products and any resulting damage or loss.

Certain spare parts and accessory products are specified in parentheses in the descriptions. Your authorized KTM dealer will be glad to advise you.

The current **KTM PowerParts** for your vehicle can be found on the KTM website. International KTM Website: http://www.ktm.com

3.4 Service

A prerequisite for perfect operation and the prevention of premature wear is that the service, care, and tuning work on the engine and chassis are properly carried out as described in the Owner's Manual. Poor suspension settings can result in damage to the components.

Using the motorcycle in extreme operating conditions, e.g. on very muddy and wet roads or in a dusty and dry environment, can lead to above-average wear of components, such as the drive train, brakes or air filter. For this reasons, it may be necessary to service or replace worn parts before the interval listed in the service schedule is reached.

It is imperative that you adhere to the stipulated run-in times and service intervals. If you observe these exactly, you will ensure a much longer service life for your motorcycle.

3.5 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.

3.6 Customer service

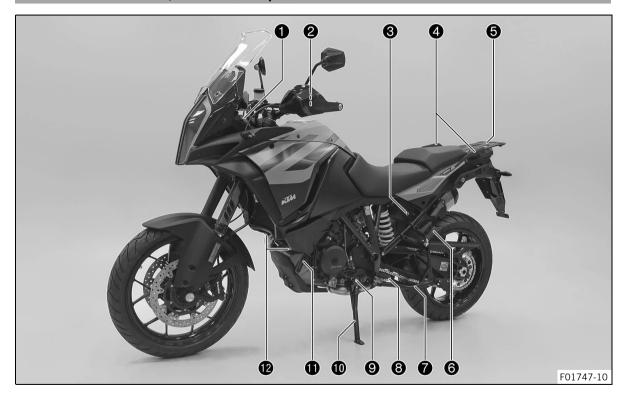
Your authorized KTM dealer will be happy to answer any questions you may have on your vehicle and KTM.

3 IMPORTANT NOTES

A list of authorized KTM dealers can be found on the KTM website. International KTM Website: http://www.ktm.com

4 VIEW OF VEHICLE

4.1 View of vehicle, front left (example)

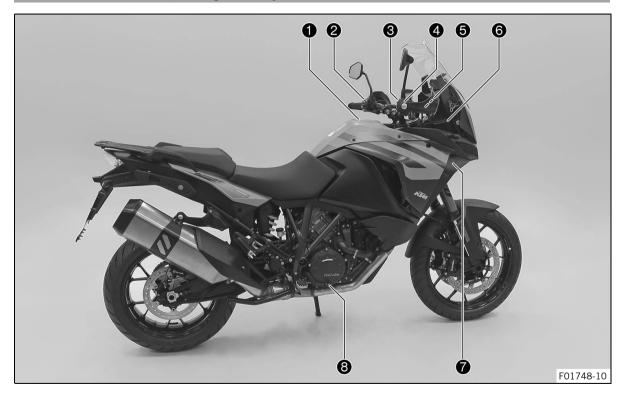


- Socket for electrical accessories (p. 44)
- 2 Clutch lever (p. 30)
- **3** Seat lock (p. 49)
- 4 Grab handles (p. 50)
- **5** Luggage rack plate (p. 50)
- 6 Passenger foot pegs (p. 52)
- Center stand (p. 55)
- 8 Rider footrests (p. 136)
- **9** Shift lever (♠ p. 52)
- **10** Side stand (

 □ p. 54)
- file Engine oil level viewer
- 12 Fuel cocks (p. 48)

4 VIEW OF VEHICLE

4.2 View of vehicle, rear right (example)

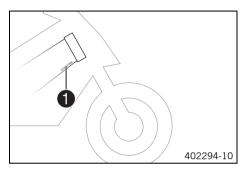


- 1 Fuel tank filler cap
- 2 Combination switch, left side (p. 31)
- **3** Combination switch, right (♠ p. 38)
- 4 Throttle grip (p. 31)
- **6** Hand brake lever (

 p. 30)
- **6** Storage compartment
- **7** Cooling system compensating tank
- 8 Foot brake lever (p. 53)

5 SERIAL NUMBERS

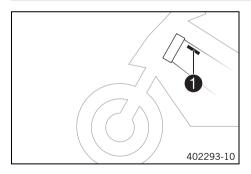
5.1 Vehicle identification number



The vehicle identification number **1** is stamped on the bottom right of the frame behind the steering head.

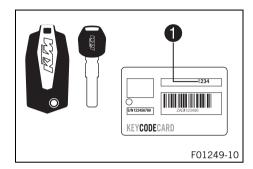
The vehicle identification number is also shown on the type label.

5.2 Type label



Type label **1** is affixed to the top left of the frame behind the steering head.

5.3 Key number



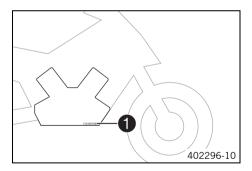
The key number **Code number 1** can be found on the **KEYCODECARD**.



Info

You need the key number to order a spare key. Keep the **KEYCODECARD** in a safe place.

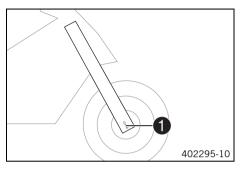
5.4 Engine number



The engine number 1 is stamped on the right side of the engine.

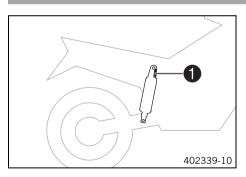
5 SERIAL NUMBERS

5.5 Fork part number



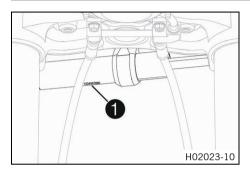
The fork part number **1** is stamped on the inner side of the fork stub.

5.6 Shock absorber article number



The shock absorber article number **1** is stamped on the top of the shock absorber.

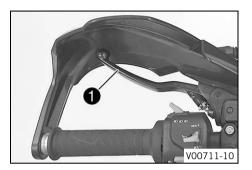
5.7 Steering damper article number



Steering damper article number 1 is embossed on the underside of the steering damper.

6 CONTROLS

6.1 Clutch lever



The clutch lever **1** is fitted on the left side of the handlebar. The clutch is hydraulically operated and self-adjusting.

6.2 Hand brake lever



The hand brake lever **1** is fitted on the right side of the handle-bar.

The hand brake lever is used to activate both the front brake and rear brake at the same time.



Info

When the <u>ABS</u> mode **Offroad** is switched on, only the front brake is activated.

When ABS is switched off, only the front brake is activated.

6.3 Throttle grip

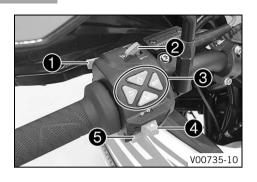


The throttle grip **1** is fitted on the right side of the handlebar.

6.4 Combination switch, left side

The left combination switch is fitted on the left side of the handle-bar.

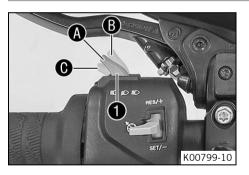
6 CONTROLS



Overview of the left combination switch

- 1 Light switch (p. 32)
- 2 Cruise control system tip switch (p. 33)
- 3 Menu switch (p. 36)
- 4 Turn signal switch (p. 36)
- **6** Horn button (p. 38)

6.5 Light switch



The light switch **1** is fitted on the combination switch on the left.

Possible states

≣ D	Low beam on – Light switch in position (A). In this position, the low beam and tail light are switched on.
	High beam on – Push the light switch to position B . In this position, the high beam and the tail light are switched on.
	Headlight flasher. – Push the light switch into position © .



The cruise control system tip switch **1** is fitted on the left side of the combination switch.

Possible states

- Cruise control system tip switch 'o in the basic position.
- Cruise control system tip switch opressed to the left. In this position, the cruise control system function is switched on and off. The operating mode is displayed in the combination instrument.
- Briefly press cruise control system tip switch on at the top.
 The last saved speed is reached and maintained. Every subsequent brief pressing increases the target speed by 1 km/h or 1 mph.
- Press and hold cruise control system tip switch to at the top.
 The target speed increases in increments of 5 km/h or 5 mph.
- Briefly press cruise control system tip switch to at the bottom. The cruise control system function is activated and the current speed is maintained. Every subsequent brief pressing reduces the target speed by 1 km/h or 1 mph.
- Press and hold cruise control system tip switch on at the bottom. The target speed decreases in increments of 5 km/h or 5 mph.



Info

After activation of the cruise control system function, the throttle grip can be turned back to the home position. The selected speed will be maintained.

If the target speed is exceeded for less than 30 seconds when turning the throttle grip, the cruise control system remains activated.

To switch off the cruise control system function, press the cruise control system tip switch to the left.

In addition, the cruise control system function is deactivated when one of the following events occurs:

- Operating the hand brake lever
- Operating the foot brake lever
- Operating the clutch lever
- Shifting gears
- Turning the throttle grip beyond the home position
- Control of the motorcycle traction control (MTC)
- Slip at the rear wheel or lifting front wheel
- A fault occurring, which impairs the cruise control system function
- Exceeding the target speed for more than 30 seconds when overtaking

Warning

Danger of accidents The cruise control system function is not suitable for all driving situations.

The selected target speed will not be reached, if the engine power is not sufficient for a gradient.

The selected target speed will be exceeded if the engine braking effect is not sufficient on a decline.

- Do not use the cruise control systems function on winding roads.
- Do not use the cruise control systems on slippery road surfaces (e.g. rain, ice or snow) or unpaved surfaces (e.g. sand, stones or gravel).
- Do not use the cruise control systems function if the traffic does not permit a constant speed.

The cruise control system function is only available when motorcycle traction control (MTC) is activated.

When motorcycle traction control (MTC) is switched off, the cruise control system function is also switched off.

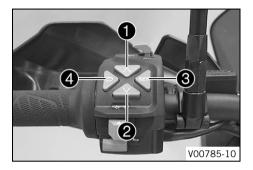
The cruise control system function cannot be activated during rapid acceleration.

The cruise control system function can only be activated in 3rd, 4th, 5th and 6th gear.

The control range is from 40 to 200 km/h or from 25 to 125 mph.

6 CONTROLS

6.7 Menu switch



The menu switch is fitted in the middle of the left combination switch.

The menu buttons are used to control the matrix display on the combination instrument.

Button 1 is the **UP** button.

Button **2** is the **DOWN** button.

Button 3 is the SET button.

Button 4 is the **BACK** button.

6.8 Turn signal switch



Turn signal switch **1** is fitted on the combination switch on the left.

Possible states



Turn signal off – Push the turn signal switch toward the switch housing.



Left turn signal, on – Turn signal switch pressed to the left. The turn signal switch returns automatically to the central position after use.

Right turn signal, on – Turn signal switch pressed to the right. The turn signal switch returns automatically to the central position after use.



Info

An automatic turn signal switch-off function ($\underline{\textbf{ATIR}}$) is available as a software feature.

The **ATIR** function uses a time and distance counter. If the turn signal has been on for at least 10 seconds and 150 meters of riding distance, the turn signal is switched off.

If the vehicle is stationary, both counters are stopped. If the turn signal switch is reactivated, both counters are reset.

6 CONTROLS

6.9 Horn button



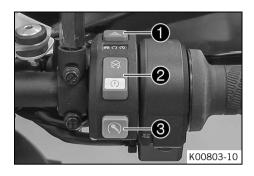
The horn button **1** is fitted on the combination switch on the left.

Possible states

- Horn button **>** in basic position.
- Horn button
 pressed The horn is operated in this position.

6.10 Combination switch, right

The right combination switch is fitted on the right side of the handlebar.



Overview of the right combination switch

- Hazard warning flasher switch (🕮 p. 39)
- 2 Emergency OFF switch/electric starter button (p. 40)
- Race-on tip switch (p. 41)

6.11 Hazard warning flasher switch



The hazard warning flasher switch 1 is fitted on the right side of the combination switch.

The hazard warning flasher is used to indicate emergency situations.



Info

The hazard warning flasher can be activated or deactivated while the ignition is switched on or up to 60 seconds after the ignition is switched off.

Only keep the hazard warning flasher activated as long as necessary as it depletes the 12-V battery.

Possible states



Hazard warning flasher on – All four turn signals and the green turn signal indicator lights in the combination instrument flash.

6.12 Emergency OFF switch/electric starter button



The emergency OFF switch/electric starter button 1 is fitted on the right side of the combination switch.

Possible states



Emergency OFF switch/electric starter button off (top position) – In this position, the ignition circuit is interrupted, a running engine stops, and a non-running engine cannot be started. A message appears on the display.



Emergency OFF switch/electric starter button on (middle position) – This position is required for operation; the ignition circuit is closed.



Starter motor on (lower position) – In this position, the starter motor is actuated.



The <u>Race-on tip switch</u> is fitted on the right side of the combination switch.



Info

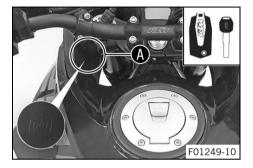
The Race-on tip switch performs the ignition lock function on this vehicle.

The steering can only be locked if the handlebar is turned fully to the left.

Possible states

- Race-on tip switch S in the basic position.
- Race-on tip switch ® pressed briefly Pressing briefly switches the ignition on and unlocks the steering lock or switches the ignition off. The Race-on indicator lamp lights up briefly once for confirmation.

6.14 Steering lock (antenna)



On this vehicle, the ignition/steering lock is replaced by a remote key with transponder (Race-on key (p. 43)).

In order to activate the steering lock, the handlebar must be turned fully to the left.

The steering is locked and unlocked electromechanically via the Race-on tip switch \circ (\bowtie p. 41).

If the battery voltage of the Race-on key is too low, hold the Race-on key or the black ignition key in area **(A)** on the motorcycle and repeat starting.



Info

As soon as the engine has been started, safely stow away the Race-on key or the black ignition key again.

Possible states

- Ignition off, steering locked In this operating mode, the ignition circuit is interrupted and the steering locked.
- Ignition off, steering unlocked In this operating mode, the ignition circuit is interrupted and the steering unlocked.
- Ignition on, steering unlocked In this operating mode, the ignition circuit is closed and the steering unlocked.

6.15 Immobilizer

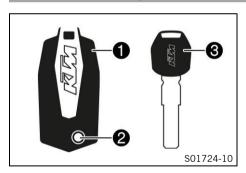


The electronic immobilizer secures the vehicle against unauthorized use.

The immobilizer is activated and the engine electronics are locked as soon as the ignition is switched off via the Race-on button \bigcirc (\bigcirc p. 41).

The Race-on indicator lamp 1 can indicate errors by flashing. If the optional alarm system is installed, the Race-on indicator lamp 1 flashes when the alarm system is switched on.

6.16 Race-on key



In this vehicle, the <u>Race-on key</u> performs all the functions of the conventional ignition key.

Press the **2** button to fold out the key bit. The key bit it is only used for unlocking the seat lock and for opening the cases (optional).

The black ignition key **3** is only intended for situations in which the Race-on key is not available or is not functional.

The black Race-on spare key can be used to start the vehicle if the Race-on key battery voltage is too low and the transponder is not recognized by the vehicle. The black Race-on key can also be used to unlock the seat lock and open the cases (optional).

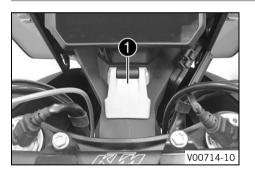
Info

The ignition keys contain electronic components. Always maintain a distance of several centimeters to other devices with electronic components.

A lost ignition key must be deactivated by an authorized KTM workshop to prevent unauthorized persons from operating the vehicle.

The ignition keys supplied are activated when delivered. Up to four ignition keys in total can be activated by an authorized KTM workshop. The key number must be provided in each case.

6.17 Socket for electrical accessories



Socket **1** for electrical accessories is fitted in front of the upper triple clamp.

It is connected to the permanent positive and is fuse-protected.

Socket for electrical accessories	
Voltage 12 V	
Maximum cur- rent consump- tion	10 A

6.18 USB socket



A USB socket 1 is located in the storage compartment for supplying power to external devices.

The USB socket is activated when the ignition is switched on.

USB socket	
Voltage	5 V
Maximum cur- rent consump- tion	2.1 A

6.19 Opening fuel tank filler cap



Danger

Fire hazard Fuel is highly flammable.

The fuel in the fuel tank expands when warm and can escape if overfilled.

- Do not refuel the vehicle in the vicinity of open flames or lit cigarettes.
- Switch off the engine for refueling.
- Make sure that no fuel is spilled; particularly not on hot parts of the vehicle.
- If any fuel is spilled, wipe it off immediately.
- Observe the specifications for refueling.

6 CONTROLS



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

- Avoid skin, eye and clothing contact with fuel.
- Immediately consult a doctor if you swallow fuel.
- Do not inhale fuel vapors.
- In case of skin contact, rinse the affected area with plenty of water.
- Rinse the eyes thoroughly with water, and consult a doctor in case of fuel contact with the eyes.
- Change your clothing in case of fuel spills on them.
- Keep fuels correctly in a suitable canister, and out of the reach of children.



Note

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

Do not allow fuel to enter the groundwater, the soil, or the sewage system.

Condition

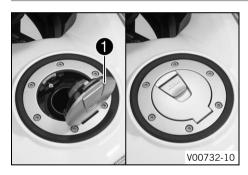
The motorcycle is stationary.

The engine is off.

The ignition has been switched on or off for less than 1 minute.

- Fold up cover 1 slowly.
 - ✓ The fuel tank filler cap is unlocked.
- Fold up fuel tank filler cap 2.

6.20 Closing the fuel tank filler cap



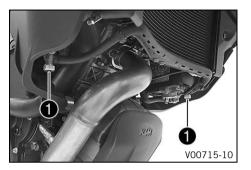


Warning

Fire hazard Fuel is highly flammable, toxic and a health hazard.

- Check that the fuel tank filler cap is locked correctly after closing.
- Change your clothing if fuel spills on them.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Fold down fuel tank filler cap and push it down.
 - ✓ The fuel tank filler cap locks audibly in place.

6.21 Fuel cocks



A fuel cock 1 is located on each side of the fuel tank.



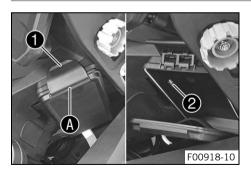
Info

The fuel cocks must always be open during operation. The fuel cocks are only closed to remove the fuel tank.

Possible states

- Fuel cocks are closed Level equalization cannot take place and the fuel supply to the throttle valve body is shut off.
- Fuel cocks are open Level equalization can take place and the fuel supply to the throttle valve body is open.

6.22 Opening storage compartment



- Lift the lock 1 and detach in area A.
- Open storage compartment.

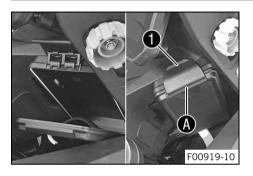


Info

A <u>USB</u> socket **2** (p. 45) is located in the storage compartment for supplying power to external devices.

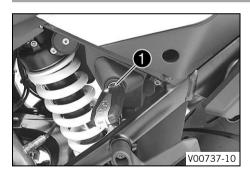
•

6.23 Closing storage compartment



- Close storage compartment.
- Attach lock 1 in area A and press down.

6.24 Seat lock

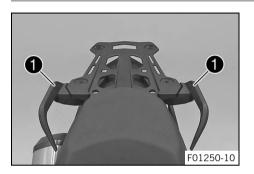


Seat lock 1 is located on the left side of the vehicle under the seat.

It can be unlocked using the Race-on key or the black Race-on key.

6 CONTROLS

6.25 Grab handles



The passenger can hold onto the grab handles **1** during the trip.

6.26 Luggage rack plate



The luggage rack plate 1 is located behind the seat.

The base plate of a luggage system (optional) can be attached to the luggage rack plate.

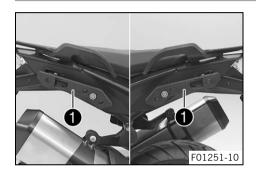
The luggage rack plate may not be loaded with more than the specified weight.

Maximum permissi-	8 kg (18 lb.)
ble load on luggage	
rack plate	

Info

Note the information provided by the luggage manufacturer.

6.27 Case holders



Case holders are located on each side of the passenger seat. A case system (optional) can be attached on the case holders. Use case systems approved and/or recommended by KTM. Observe the specifications in the enclosed **KTM PowerParts** fitting instructions.



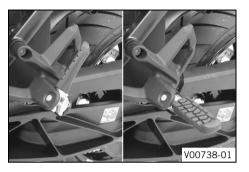
Info

The use of other case systems is not recommended. Do not exceed the maximum load of the case holders if using other case systems.

Maximum permissi-	7 kg (15 lb.)
ble load of the case	
holders per side if	
using other case sys-	
tems	

6 CONTROLS

6.28 Passenger foot pegs

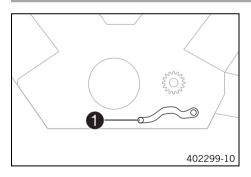


The passenger foot pegs can be folded up and down.

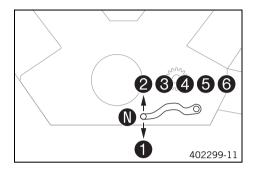
Possible states

- Passenger foot pegs folded up For operation without a passenger.
- Passenger foot pegs folded down For operation with a passenger.

6.29 Shift lever



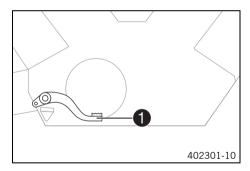
The shift lever **1** is fitted on the left side of the engine.



The gear positions can be seen in the figure.

The idle position is between first and second gears.

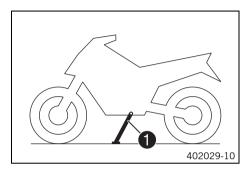
6.30 Foot brake lever



Foot brake lever **1** is located in front of the right footrest. The rear brake is activated using the foot brake lever.

6 CONTROLS

6.31 Side stand



The side stand **1** is located on the left of the vehicle. The side stand is used for parking the motorcycle.



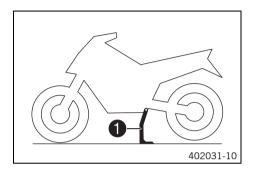
Info

The side stand must be folded up during motorcycle use. The side stand is coupled with the safety starting system. See the instructions in the section on "Stopping, parking".

Possible states

- Side stand folded out The vehicle can be supported on the side stand. The safety starting system is active.
- Side stand folded in This position is mandatory when riding the motorcycle. The safety starting system is inactive.

6.32 Center stand



In addition to the side stand, the vehicle is equipped with a center stand $\ensuremath{\text{1}}$.

7.1 Combination instrument



The combination instrument is attached in front of the handlebar. The combination instrument is divided into two function areas.

1 indicator lamps (p. 62)

Display **2**



Warning

Danger of burns Parts of the combination instrument become very hot in certain situations.

In particular, the display gets hot in ambient temperatures above 55 °C (131 °F), during extended stationary periods, e.g. at a traffic light, or in direct sunlight.

- Do not touch the combination instrument with bare hands in the situations referred to.
- Where appropriate protective clothing.
- If you have been burned, hold the area affected under lukewarm water immediately.

7.2 Activation and test



Activation

The combination instrument is activated when the ignition is switched on.



Info

The brightness of the displays is controlled by an ambient light sensor in the combination instrument.

Test

The welcome text appears on the display and the indicator lamps are briefly activated for a function check.



Info

The malfunction indicator lamp always lights up as long as the engine is not running. If the engine is running and the malfunction indicator lamp lights up, stop (taking care not to endanger yourself or other road users in the process) and contact an authorized KTM workshop.

The oil pressure warning lamp always lights up as long as the engine is not running. If the engine is running and the oil pressure warning lamp lights up, stop immediately (taking care not to endanger yourself or other road users in the process) and switch off the engine.

The ABS warning lamp and TC indicator lamp light up until a speed of approx. 6 km/h (approx. 4 mph) or more has been reached.

7.3 Day-Night mode



Day mode is shown in a bright color.



Night mode is shown in a dark color.

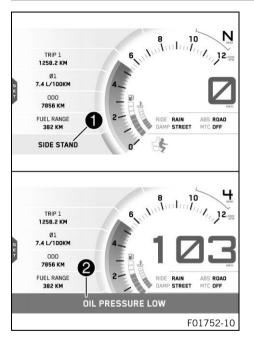


Info

The ambient light sensor in the combination instrument measures the brightness of the environment and automatically switches the display to day or night mode. The display is brightened, darkened or switched to the other mode depending on the brightness measured by the ambient light sensor.

The display mode cannot be changed manually.

7.4 Warnings



Warnings appear on the bottom edge of the display; these are marked yellow or red depending on their relevance.

Yellow warnings 1 indicate errors or information which require prompt intervention or an adjustment to the riding style.

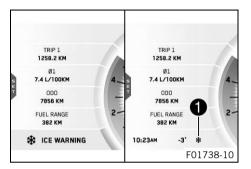
Red warnings 2 indicate errors or information which require immediate intervention.



Info

Warnings can be hidden by pressing any button. All the existing warnings are displayed in the **Warnings** menu until they are no longer active.

7.5 Ice warning



The ice warning * is shown in area • of the display.

The ice warning * appears on the display when the ambient temperature drops below the specified value.

Temperature	≤ 4 °C (≤ 39 °F)
-------------	------------------

The ice warning \$\pi\$ goes out on the display when the ambient temperature rises above the specified value again.

Temperature	≥ 6 °C (≥ 43 °F)
-------------	------------------



Info

When the ice warning $\mbox{\$}$ lights up, the warning ICE WARN-ING also appears.

7.6 Indicator lamps



The indicator lamps offer additional information about the operating state of the motorcycle. When the ignition is switched on, all indicator lamps light up briefly.



Info

The malfunction indicator lamp always lights up as long as the engine is not running. If the engine is running and the malfunction indicator lamp lights up, stop (taking care not to endanger yourself or other road users in the process) and contact an authorized KTM workshop.

The oil pressure warning lamp always lights up as long as the engine is not running. If the engine is running and the oil pressure warning lamp lights up, stop immediately (taking care not to endanger yourself or other road users in the process) and switch off the engine.

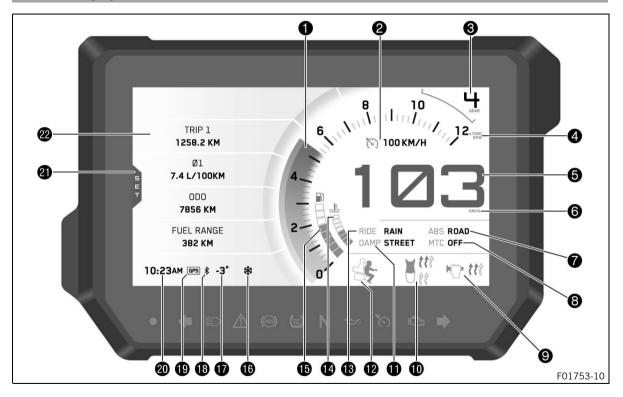
The ABS warning lamp and TC indicator lamp light up until a speed of approx. 6 km/h (approx. 4 mph) or more has been reached.

Possible states

	Race-on indicator lamp lights up/flashes yellow/orange/red – Status or error messages relating to Race-on system/alarm system.
←	The left turn signal indicator lamp flashes green with a steady rhythmic flash – The left turn signal is switched on.
	The high beam indicator lamp lights up blue – The high beam is switched on.
\triangle	The general warning lamp lights up yellow – A note/warning note on operating safety has been detected. This is also shown in the display.
(ABS)	The ABS warning lamp lights up yellow – Status or error messages relating to <u>ABS</u> . The ABS warning lamp flashes if the ABS mode Offroad is enabled.

(<u>TC</u>)	TC indicator lamp lights up/flashes yellow – The <u>MTC</u> (p. 278) is not enabled or is currently intervening. The TC indicator lamp also lights up if an error is detected. Contact an authorized KTM workshop. The TC indicator lamp flashes if TC actively engages or if the <u>HHC</u> (p. 158) (optional) is activated.
N	The idle indicator lamp lights up green – The transmission is in neutral.
47	The oil pressure warning lamp lights up red – The oil pressure is too low. Stop immediately, taking care not to endanger yourself or other road users in the process, and switch off the engine.
* (5)	The cruise control system indicator lamp lights up yellow – The cruise control system function is switched on, but the speed control is not active.
* (5)	The cruise control system indicator lamp lights up green – The cruise control system function is switched on and the speed control is active.
亡为	Malfunction indicator lamp lights up yellow – The <u>OBD</u> has detected an emission- or safety-critical fault.
→	The right turn signal indicator lamp flashes green with a steady rhythmic flash – The right turn signal is switched on.

7.7 Display



Info

The figure shows the start screen of the combination instrument. If the menu is opened, the speed is still displayed.

- 1 Speed (p. 68)
- Shift warning light (🕮 p. 69)

The shift warning light is integrated in the tachometer display.

- 2 Cruise control indicator (p. 70)
- Gear display
- 4 Unit for the speed display
- **6** Speed (p. 71)
- 6 Unit for the speedometer
- **ABS** display (
 p. 71)
- **8** MTC display (

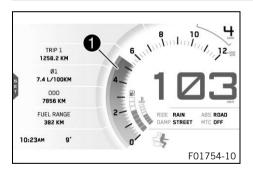
 p. 72)
- 9 Heated grip (optional) (p. 73)
- Seat heater (optional) (🕮 p. 74)
- **1 Damp** display (≅ p. 73)
- 12 Load display (🕮 p. 74)
- **13 Ride** display (p. 72)
- Coolant temperature indicator (p. 75)
- 15 Fuel level display (🕮 p. 75)
- **16** Ice warning (🕮 p. 61)

- Only shown when there is an increased risk of ice on the roads.
- Ambient air temperature indicator (p. 76)
- 18 Bluetooth® (optional)
- **GPS** (optional)
- 20 Time (🕮 p. 77)
- SET SET

Only shown where the menu overview is closed.

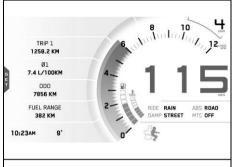
22 Favourites display (p. 77)

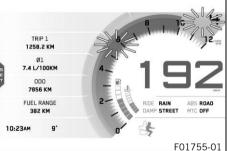
7.8 Speed



The speed is shown in area **1** of the display. The speed is measured in revolutions per minute.

7.9 Shift warning light





The shift warning light is integrated in the tachometer display. In the **Shift Light** menu, the engine speed for the shift warning light can be set. The shift warning light is always active during the running-in phase (up to 1,000 km / 621 mi). The shift warning light can only be deactivated, and the values for **RPM1** and **RPM2** can only be adjusted after this. The shift warning light lights up red at **RPM1** and flashes red at **RPM2**.



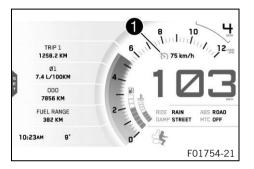
Info

In sixth-gear, the shift warning light is deactivated when the engine is warm after the first service.

Coolant temperature	≤ 35 °C (≤ 95 °F)
ODO	< 1,000 km (< 620 mi)
The shift warning light always lights up at	6,500 rpm
	05.00 (05.05)
Coolant temperature	> 35 °C (> 95 °F)
ODO	> 1,000 km (> 620 mi)
RPM1 shift warning light	lights up

RPM2 shift warning	flashes
light	

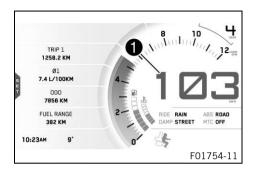
7.10 Cruise control indicator



The operating state and active cruise control are shown in the **1** area of the display.

Cruise control is operated using the cruise control tip switch \circ ($\[\]$ p. 33).

7.11 Speed

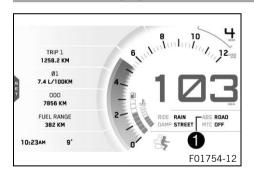


The speed is shown in area ① of the display.

The unit of speed can be configured in the **Distance** menu.

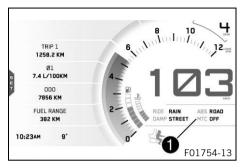
Speed is shown in kilometers per hour **km/h** or in miles per hour **mph**.

7.12 ABS display



The ABS mode setting is shown in the **1** area of the display. The **ABS** can be configured in the **ABS** menu.

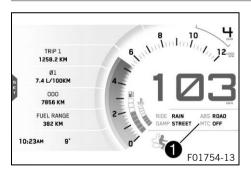
7.13 MTC display



The **①** area of the display indicates whether **MTC** the system is switched on or off.

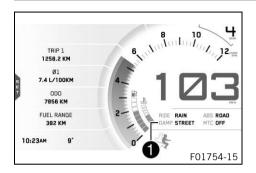
The motorcycle traction control can be switched on or off in the \mbox{MTC} menu.

7.14 Ride display



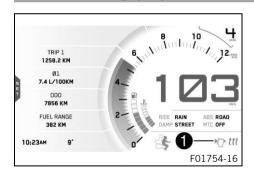
The **Ride Mode** setting is shown in area **1** of the display. The drive mode can be configured in the **Ride Mode** menu.

7.15 Damp display



The **Damping** mode setting is shown in the **1** area of the display. The damping can be configured in the **Damping** menu.

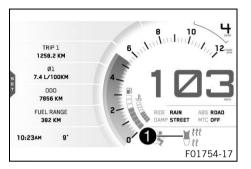
7.16 Heated grip (optional)



When the heated grip is switched on, the **Heated Grips** symbol appears in the **1** area of the display.

The heated grip can be configured in the **Heated Grips** menu.

7.17 Seat heater (optional)



When the seat heating is switched on, the **Heated Seat** symbol appears in area **1** of the display.

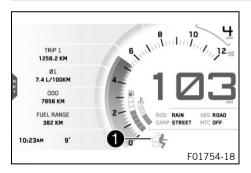
The seat heating can be configured in the **Heated Seat** menu.



Info

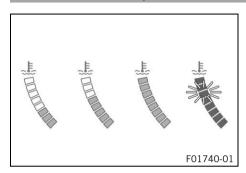
The heating level for the passenger seat heating can be controlled by a switch next to the right grab handle.

7.18 Load display



The payload setting is shown in area **1** of the display. The payload can be configured in the **Load** menu.

7.19 Coolant temperature indicator



The coolant temperature indicator consists of bars. The more bars that light up, the hotter the coolant.



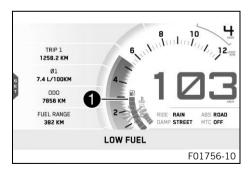
Info

When all the bars flash, the warning **ENGINE TEMP HIGH** also appears.

Possible states

- The engine is cold Up to three bars light up.
- Engine warm Four bars light up.
- Engine hot Five to eight bars light up.
- Engine very hot all eight bars flash red.

7.20 Fuel level display



The fuel tank contents are shown in area **1** of the display. The fuel level indicator consists of bars. The more bars are lit, the more fuel is in the fuel tank.



Info

after 2 minutes.

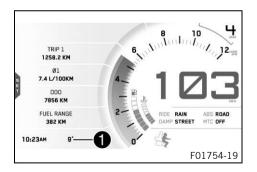
If the fuel level is getting low, all eight segments flash red and the following warning also appears **LOW FUEL**.

The fuel level is displayed with a slight delay to prevent the indicator from constantly moving while riding.

The fuel level display is not updated while the side stand is folded out or the emergency off switch is switched off. Once the side stand is folded up and the emergency OFF switch is switched on, the fuel level display is next updated

The fuel level display flashes if the combination instrument does not receive a signal from the fuel level sensor.

7.21 Ambient air temperature indicator

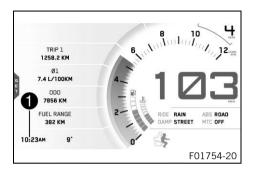


The ambient air temperature is displayed in the 1 area.

The unit of ambient air temperature can be configured in the **Temperature** menu.

The ambient air temperature is displayed in °C or °F.

7.22 Time



The time is shown in area **1** of the display.

The time is displayed in 24 hour format in all languages except for EN-US. The time is displayed in 12 hour format if the language is set to EN-US.

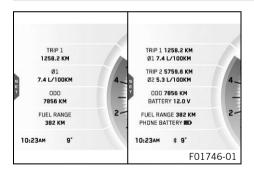
The time can be configured in the **Time/Date** menu.



Info

The time must be reset if the 12-V battery was disconnected from the vehicle or the fuse was removed.

7.23 Favourites display



Up to eight items of information are shown in the **Favourites** display.

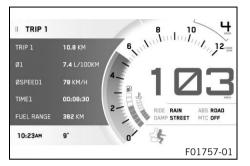
The **Favourites** display can be freely configured in the **Favourites** menu.



Info

One to four items of information selected are displayed on two lines. Five to eight items of information selected are displayed on a single line.

7.24 Quick Selector 1 display



When the menu is closed, the **Quick Selector 1** menu is opened by pressing the **UP** button.

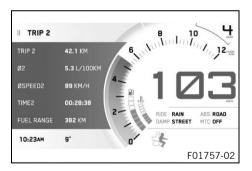
Press the BACK button to close Quick Selector 1.



Info

The **Quick Selector 1** can be configured in the **Quick Selector 1** menu. Any information can be selected.

7.25 Quick Selector 2 display



When the menu is closed, the **Quick Selector 2** menu is opened by pressing the **DOWN** button.

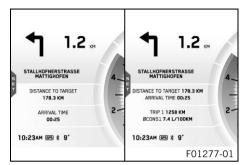
Press the BACK button to close Quick Selector 2.



Info

The **Quick Selector 2** can be configured in the **Quick Selector 2** menu. Any information can be selected.

7.26 Navigation display (optional)



The **Navigation** display appears when the navigation function is active.

The **Navigation** display shows the direction arrow, the distance to the next waypoint, the road name as well as up to four sets of information.

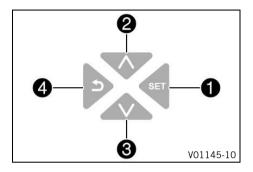
The **Navigation** display can be freely configured in the **Navi Info Screen** menu.



Info

One to two sets of information selected are displayed on two lines. Three to four sets of information selected are displayed on one line.

7.27 Menu





Info

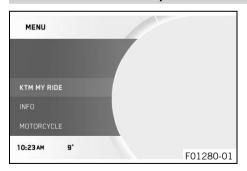
Press the **SET** button **1** in the start screen to open the menu.

Navigate through the menu using the **UP** button **2** or **DOWN** button **3**.

Press the **BACK** button **4** to close the current menu or the menu overview.

If no button on the left combination switch is pressed when the menu is open, the menu closes automatically after about 20 seconds. Pressing the **SET** button again opens the last menu opened.

7.27.1 KTM MY RIDE (optional)



Condition

- The motorcycle is stationary.
- Function KTM MY RIDE (optional) activated.
- Press the **SET** button when the menu is closed.
- Press the UP or DOWN button until KTM MY RIDE is marked.
 Press the SET button to open the menu.

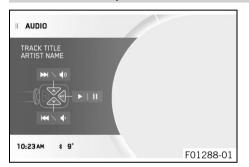
In **KTM MY RIDE** an appropriate cellphone or headset can be paired with the combination instrument via **Bluetooth®** and the navigation function can be configured.

Info

Not every cellphone and headset is suitable for pairing with the combination instrument.

The standard **Bluetooth®** 2.1 must be supported.

7.27.2 Audio (optional)



Condition

- Function KTM MY RIDE (optional) activated.
- Function Wireless Interface (optional) activated.
- The combination instrument is connected to a suitable cellphone.
- The combination instrument is connected to a suitable headset.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until KTM MY RIDE is marked.
 Press the SET button to open the menu.



Warning

Danger of accidents Headphone volume which is too high distracts attention from traffic activity.

 Always select headphone volume which is low enough for you to still clearly hear acoustic signals.

- Press the **UP** or **DOWN** button until **Audio** is marked. Press the **SET** button to open the menu.
- Press and hold the **UP** button to increase the audio volume.
- Press and hold the **DOWN** button to reduce the audio volume.
- Press the **UP** button briefly to change to the next audio track.
- Briefly pressing the **DOWN** button twice changes to the previous audio title or plays the current audio title, depending on the cellphone model.
- Press the **SET** button to play or pause the audio track.

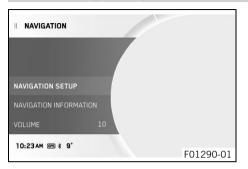


Tip

With some cellphones, the audio player needs to be started before playback is possible.

The **Audio** function can be added to **Quick Selector 1** or **Quick Selector 2** for easier operation.

7.27.3 Navigation (optional)



Condition

- Function KTM MY RIDE (optional) activated.
- The KTM MY RIDE app (optional) is installed and opened on a suitable cellphone (Android® devices Version 6.0 and higher, iOS devices Version 10 and higher).
- The combination instrument is connected to a suitable cellphone.
- The GPS function is activated on the connected cellphone.
- For voice navigation: The combination instrument is connected to a suitable headset and an appropriate language package has been downloaded in the **KTM MY RIDE** app.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until KTM MY RIDE is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button until Navigation is marked. Press the SET button to open the menu.

The **Navigation** menu allows various settings to be made and general information on the navigation to be called up.



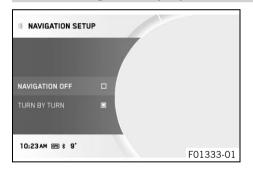
Info

The **Audio** function can be used with the navigation function at the same time.

An incoming call is visualized in a small window at the top of the combination instrument display when the navigation function is active. You cannot navigate in the **Navigation** menu during an active phone conversation.

When the navigation function is switched on and the device is connected, the **GPS** symbol appears in the display of the combination instrument.

7.27.4 Navigation setup (optional)



Condition

- Function KTM MY RIDE activated (optional).
- The KTM MY RIDE app (optional) is installed and opened on a suitable cellphone (Android® devices Version 6.0 and higher, iOS devices Version 10 and higher).
- The combination instrument is connected to a suitable cellphone.
- The GPS function is activated on the connected cellphone.
- Press the **SET** button when the menu is closed.
- Press the UP or DOWN button until KTM MY RIDE is marked.
 Press the SET button to open the menu.

- Press the UP or DOWN button until Navigation is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until Navigation Setup is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button until the desired menu item Navigation Off or Turn by Turn is marked. Press the SET button to switch the submenu item on or off.



Info

The visual navigation can be switched on or off with the **Navigation Off**. An activated voice navigation remains switched on.

The visual navigation can be changed to direction arrows with **Turn by Turn**.

Navigation mode can be set in the ${\bf Navigation\ Setup}$ submenu.

7.27.5 Navigation information (optional)



Condition

- Function KTM MY RIDE (optional) activated.
- The KTM MY RIDE app (optional) is installed and opened on a suitable cellphone (Android® devices Version 6.0 and higher, iOS devices Version 10 and higher).
- The combination instrument is connected to a suitable cellphone.
- The GPS function is activated on the connected cellphone.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until KTM MY RIDE is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button until Navigation is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until Navigation Information is marked. Press the SET button to open the menu.

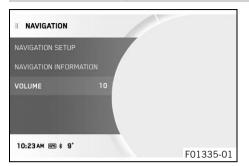


Info

Distance to Target shows the distance to the destination. **Arrival Time** shows the arrival time of the cellphone.

Information on the current navigation can be viewed in the **Navigation Information** submenu.

7.27.6 Volume (optional)



Condition

- Function KTM MY RIDE (optional) activated.
- The KTM MY RIDE app (optional) is installed and opened on a suitable cellphone (Android® devices Version 6.0 and higher, iOS devices Version 10 and higher).
- The combination instrument is connected to a suitable cellphone.
- The GPS function is activated on the connected cellphone.
- For voice navigation: The combination instrument is connected to a suitable headset and an appropriate language package has been downloaded in the KTM MY RIDE app.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until KTM MY RIDE is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button until Navigation is marked. Press the SET button to open the menu.



Warning

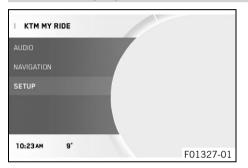
Danger of accidents Headphone volume which is too high distracts attention from traffic activity.

 Always select headphone volume which is low enough for you to still clearly hear acoustic signals.

- Press the UP or DOWN button until Volume is marked. Press the SET button to open the menu.
- Press and hold the **UP** button to increase the audio volume.
- Press and hold the **DOWN** button to reduce the audio volume.

The volume of the navigation can be set in the **Volume** submenu.

7.27.7 Setup (optional)



Condition

- The motorcycle is stationary.
- Function KTM MY RIDE (optional) activated.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until KTM MY RIDE is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button until Setup is marked. Press the SET button to open the menu.

Setup allows you to configure **Wireless Interface**, via which the **Bluetooth** menu can be activated or deactivated.



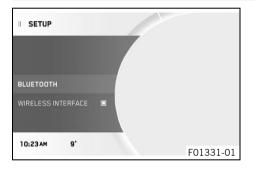
Info

The **Bluetooth®** function can only be used in conjunction with **KTM MY RIDE** (optional).

When the **Bluetooth®** function is switched on and the device is connected, the **Bluetooth®** symbol appears in the display of the combination instrument.

Not every cellphone and headset is suitable for pairing with the combination instrument.

7.27.8 Bluetooth (optional)



Condition

- The motorcycle is stationary.
- Function KTM MY RIDE (optional) activated.
- Function Wireless Interface (optional) activated.
- Press the UP or DOWN button until Setup is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until Bluetooth is marked. Press the SET button to open the menu.

In **Bluetooth**, an appropriate cellphone or headset can be paired with the combination instrument via **Bluetooth**®.



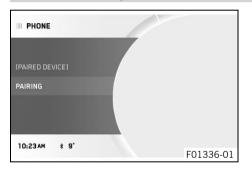
Info

The **Bluetooth®** function can only be used in conjunction with **KTM MY RIDE** (optional).

When the **Bluetooth®** function is switched on and the device is connected, the **Bluetooth®** symbol appears in the display of the combination instrument.

Not every cellphone and headset is suitable for pairing with the combination instrument.

7.27.9 Phone (optional)



Condition

- The motorcycle is stationary.
- Function KTM MY RIDE (optional) activated.
- Function Wireless Interface (optional) activated.
- The **Bluetooth**® function should also be activated in the device to be paired.
- Press the UP or DOWN button until Setup is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until Bluetooth is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until the desired menu item
 Phone is marked. Press the SET button to open the menu.



Info

Two cellphones can never be paired simultaneously with the combination instrument.

- Press the SET button again to confirm the Pairing submenu item.
- A message appears on the combination instrument indicating that this is now ready for pairing. The pairing is completed successfully by confirming the **Passkey** on the cellphone and on the combination instrument.



Info

Once the pairing is completed, the registered trademark of the paired cellphone is displayed in the **Phone** menu. Press the **UP** or **DOWN** button until the paired device is marked. The paired device can be deleted by pressing the **SET** button.

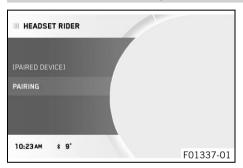
Not every cellphone is suitable for pairing with the combination instrument.

- Move the device already paired into the range of the combination instrument while the Bluetooth® function is active.
 - ✓ The device is automatically paired with the combination instrument.

- ✗ If the device is not automatically paired with the combination instrument after approx. 30 seconds:
 - Restart combination instrument or Pairing repeat procedure.

A suitable cellphone can be paired with the combination instrument in the **Phone** submenu.

7.27.10 Headset Rider (optional)



Condition

- The motorcycle is stationary.
- Function KTM MY RIDE (optional) activated.
- Function Wireless Interface (optional) activated.
- The **Bluetooth**® function should also be activated in the device to be paired.
- Press the UP or DOWN button until Setup is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until Bluetooth is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until Headset Rider is marked.
 Press the SET button to open the menu.
- Press the SET button again to confirm the Pairing submenu item.
- The registered trademark of the rider headset appears on the combination instrument. Press the SET button to select the

device. Press the **SET** button again to confirm the **Confirm** submenu item. The pairing of a rider headset with the combination instrument is now completed at this point.



Info

Once the pairing is completed, the registered trademark of the paired headset is displayed in the **Headset Rider** menu.

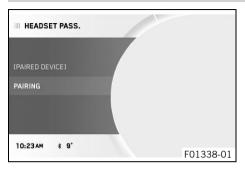
Press the **UP** or **DOWN** button until the paired device is marked. The paired device can be deleted by pressing the **SET** button.

Not every headset is suitable for pairing with the combination instrument.

- Move the device already paired into the range of the combination instrument while the **Bluetooth®** function is active.
 - ✓ The device is automatically paired with the combination instrument.
 - ✗ If the device is not automatically paired with the combination instrument after approx. 30 seconds:
 - Restart combination instrument or Pairing repeat procedure.

A suitable rider headset can be paired with the combination instrument in the **Headset Rider** submenu.

7.27.11 Headset Pass. (optional)



Condition

- The motorcycle is stationary.
- Function KTM MY RIDE (optional) activated.
- Function Wireless Interface (optional) activated.
- The **Bluetooth®** function should also be activated in the device to be paired.
- Press the UP or DOWN button until Setup is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until Bluetooth is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until Headset Pass. is marked.
 Press the SET button to open the menu.
- Press the SET button again to confirm the Pairing submenu item.
- The registered trademark of the passenger headset appears
 on the combination instrument. Press the SET button to select
 the device. Press the SET button again to confirm the Confirm
 submenu item. The pairing of a passenger headset with the
 combination instrument is now successfully completed.



Info

Once the pairing is completed, the registered trademark of the paired headset is displayed in the **Headset Pass.** menu.

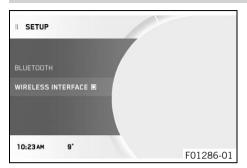
Press the **UP** or **DOWN** button until the paired device is marked. The paired device can be deleted by pressing the **SET** button.

Not every headset is suitable for pairing with the combination instrument.

- Move the device already paired into the range of the combination instrument while the Bluetooth® function is active.
 - The device is automatically paired with the combination instrument.
 - ✗ If the device is not automatically paired with the combination instrument after approx. 30 seconds:
 - Restart combination instrument or **Pairing** repeat procedure.

A suitable passenger headset can be paired with the combination instrument in the **Headset Pass.** submenu.

7.27.12 Wireless Interface



Condition

- The motorcycle is stationary.
- Function KTM MY RIDE (optional) activated.
- Press the **SET** button when the menu is closed.
- Press the UP or DOWN button until KTM MY RIDE is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button until Setup is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until Wireless Interface is marked. Switch the Wireless Interface on or off by pressing the SET button.

Wireless Interface allows the Bluetooth® menu to be activated or deactivated.



Info

The **Bluetooth®** function can only be used in conjunction with **KTM MY RIDE** (optional).

When the **Bluetooth®** function is switched on and the device is connected, the **Bluetooth®** symbol appears in the display of the combination instrument.

Not every cellphone and headset is suitable for pairing with the combination instrument.

7.27.13 Telephony (optional)



CALL ACCEPTED	CALL DECLINED
00:00 Vol + Vol - FIRSTNAME	S FIRSTNAME NAME
NAME	

Condition

- Function KTM MY RIDE (optional) activated.
- Function Wireless Interface (optional) activated.
- The combination instrument is connected to a suitable cellphone.
- The combination instrument is connected to a suitable headset.



Warning

Danger of accidents Headphone volume which is too high distracts attention from traffic activity.

- Always select headphone volume which is low enough for you to still clearly hear acoustic signals.
- Press the **SET** button to accept an incoming call.
- Press and hold down the **BACK** button to reject an incoming call.
- Press and hold the **UP** button to increase the audio volume.
- Press and hold the **DOWN** button to reduce the audio volume.

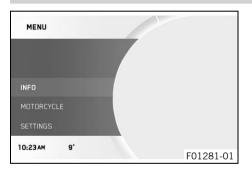


Info

The call duration and contact are displayed. Depending on the cellphone settings, the contact is displayed with a picture and a name.

An incoming call is visualized in a small window at the top of the combination instrument display when the navigation function is active.

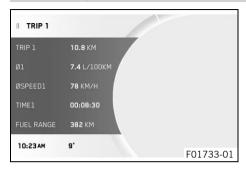
7.27.14 Info



- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Info is marked. Press the SET button to open the menu.

General information can be accessed in Info.

7.27.15 Trip 1



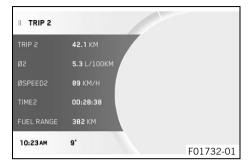
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Info is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until Trip 1 is marked. Press the SET button to open the menu.

Trip 1 shows the distance since the last reset, such as between two refueling stops. Trip 1 is running and counts up to 9999.
Ø1 indicates the average fuel consumption based on Trip 1.
ØSpeed1 indicates the average speed based on Trip 1 and Time1.
Time1 shows the journey time on the basis of Trip 1 and runs as soon as a speed signal is received.

Fuel Range indicates the possible distance you can cover with the fuel reserve.

Press and	All entries in the Trip 1 menu are reset.
hold the SET	
button for 3 -	
5 seconds.	

7.27.16 Trip 2



- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Info** is marked. Press the **SET** button to open the menu.
- Press the UP or DOWN button until Trip 2 is marked. Press the SET button to open the menu.

Trip 2 shows the distance since the last reset, such as between two refueling stops. Trip 2 is running and counts up to 9999.

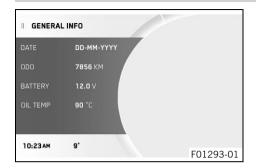
Ø2 indicates the average fuel consumption based on Trip 2.

ØSpeed2 indicates the average speed based on Trip 2 and Time2.
Time2 shows the journey time on the basis of Trip 2 and runs as soon as a speed signal is received.

Fuel Range indicates the possible distance you can cover with the fuel reserve.

Press and	All entries in the Trip 2 menu are reset.
hold the SET	
button for 3 -	
5 seconds.	

7.27.17 General Info



- Press the **SFT** button when the menu is closed
- Press the **UP** or **DOWN** button until **Info** is marked. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **General Info** is marked. Press the **SET** button to open the menu.

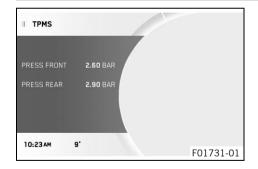
Date shows the date

000 shows the total distance covered.

Battery indicates the battery voltage.

Oil Temp indicates the engine oil temperature.

7.27.18 TPMS



Condition

- Model with TPMS
- Press the **SFT** button when the menu is closed
- Press the **UP** or **DOWN** button until **Info** is marked. Press the **SET** button to open the menu.



Warning

Danger of accidents The tire pressure monitoring system does not eliminate the necessity to check the tires before going on a ride.

To avoid false alarms, the tire pressure values are evaluated over a period of several minutes.

- Check the tire pressure before every ride.
- Correct the tire pressure if the tire pressure deviates from the specified value.
- Even if the tire pressure values are correct, stop the vehicle immediately if its behavior indicates a loss of pressure in the tires.
- Press the UP or DOWN button until <u>TPMS</u> is marked. Press the SET button to open the menu.

Guideline

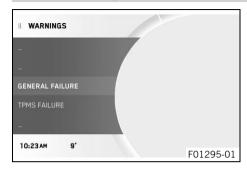
Tire pressure, solo / with passenger / full payload		
front: with cold tires	2.4 bar (35 psi)	
rear: with cold tires	2.9 bar (42 psi)	

The **TPMS** menu displays the tire pressure of the front and rear tires.

Press Front indicates the tire pressure at the front.

Press Rear indicates the tire pressure at the rear.

7.27.19 Warnings

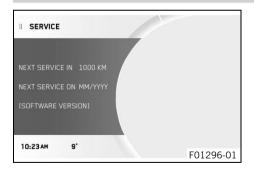


Condition

- Message or warning is present.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Info** is marked Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Warnings** is marked. Press the **SET** button to open the menu.
- Use the **UP** or **DOWN** button to navigate through the warnings.

All the warnings that have occurred are displayed and stored in the Warnings menu.

7.27.20 Service

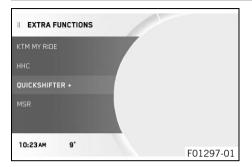


Condition

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Info** is marked. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Service** is marked. Press the **SET** button to open the menu.

The next service due is shown in the **Service** menu.

7.27.21 Extra Functions



Condition

- The motorcycle is stationary.
- Motorcycle with optional supplementary function.
- Press the SET button when the menu is closed.
- Press the **UP** or **DOWN** button until **Info** is marked. Press the **SET** button to open the menu.
- Press the UP or DOWN button until Extra Functions is marked.
 Press the SET button to open the menu.
- Use the **UP** or **DOWN** button to navigate through the extra functions.

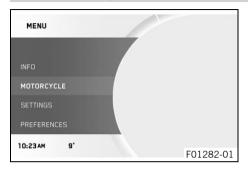
The optional extra functions are listed in **Extra Functions**.



Info

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

7.27.22 Motorcycle

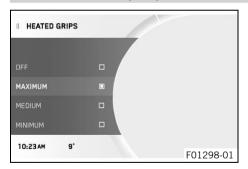


Condition

- The motorcycle is stationary.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Motorcycle is marked. Press the SET button to open the menu.

The vehicle drive mode can be configured in **Motorcycle**.

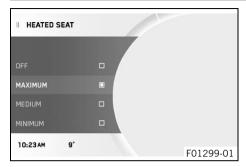
7.27.23 Heated Grips (optional)



Condition

- The motorcycle is stationary.
- Menu Heated Grips activated.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Motorcycle is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until Heated Grips is marked.
 Press the SET button to open the menu.
- Activate the menu item using the UP or DOWN button.
- Press the **SET** button to select the heating level or to switch the heated grip on or off.

7.27.24 Heated Seat (optional)



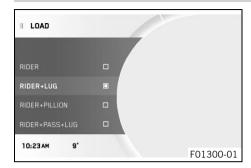
Condition

- The motorcycle is stationary.
- Menu Heated Seat Ride activated.
- Menu Heated Seat Pas activated.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is marked. Press the **SET** button to open the menu.
- Press the UP or DOWN button until Heated Seat is marked.
 Press the SET button to open the menu.
- Activate the menu item using the UP or DOWN button.
- Press the **SET** button to select the heating level or to switch the seat heating on or off.



Info

The heating level for the passenger seat heating is selected using the switch next to the right grab handle.



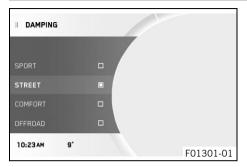
Condition

- The motorcycle is stationary.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Motorcycle is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until Load is marked. Press the SET button to open the menu.
- Activate the menu item using the UP or DOWN button.
- Press the SET button to select a payload.

In the **Load** menu, you can select from four payloads.

The setting of the spring preload and the rebound is adjusted for the payload.

7.27.26 **Damping**



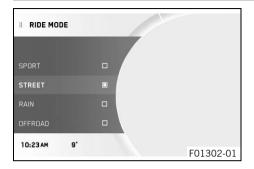
Condition

- The motorcycle is stationary.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Motorcycle is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until Damping is marked. Press the SET button to open the menu.
- Activate the menu item using the UP or DOWN button.
- Press the SET button to select the damping setting.

The damping setting of the suspension components is shown in the **Damp** display.

In the **Damping** menu, you can select from the settings **SPORT**, **STREET**, **COMFORT**, and **OFFROAD**.

7.27.27 Ride Mode



- Emergency OFF switch/electric starter button on (middle position) This position is required for operation; the ignition circuit is closed. (IP p. 40)
- Cruise control system function deactivated
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Motorcycle is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until Ride Mode is marked. Press the SET button to open the menu.
- Press the UP or DOWN button to activate the menu item and select it with the SET button. Press the SET button to select the engine and motorcycle traction control settings that are coordinated with each other.
 - ✓ SPORT homologated performance with very direct response; the motorcycle traction control allows greater slip on the rear wheel.
 - ✓ STREET homologated performance with balanced response; the motorcycle traction control allows normal slip on the rear wheel.
 - ✓ RAIN reduced homologated performance for better ridability; the motorcycle traction control allows normal slip on the rear wheel.

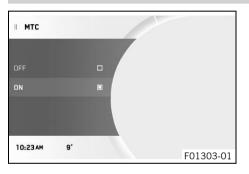
✓ OFFROAD – reduced homologated performance for better ridability; the motorcycle traction control allows high slip on the rear wheel.



Info

Do not open the throttle during the selection.

7.27.28 MTC



Condition

- The motorcycle is stationary.
- · Cruise control system function deactivated
- Press the SET button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is marked. Press the **SET** button to open the menu.
- Press the UP or DOWN button until MTC is marked. Press the SET button to open the menu.
- Activate the menu item using the UP or DOWN button.
- Switch the MTC on or off by pressing the SET button.

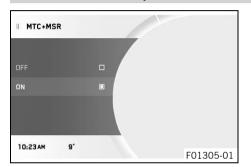


Info

Do not open the throttle when switching on or off. After the ignition is switched on, motorcycle traction control is enabled again.

Press and	Activation of the motorcycle traction control.
hold the SET	
button for 3 -	
5 seconds.	

7.27.29 MTC+MSR (optional)



Condition

- The motorcycle is stationary.
- Cruise control system function deactivated
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Motorcycle is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until MTC+MSR is marked. Press the SET button to open the menu.
- Activate the menu item using the UP or DOWN button.
- Switch the MTC+MSR on or off by pressing the SET button.



Info

Do not open the throttle when switching on or off. When the ABS is switched off or the **Offroad** ride mode is active, the **MSR** is not active.

After the ignition is switched on, the motorcycle traction control and engine traction torque control are enabled again.

Press and	Activation of the motorcycle traction control
hold the SET	and the engine traction torque control.
button for 3 -	
5 seconds.	

7.27.30 ABS



Condition

- The motorcycle is stationary.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Motorcycle is marked. Press the SET button to open the menu.

Note

Voiding of the government approval for road use and the insurance coverage
If the ABS is switched off completely, the vehicle's approval for road use is invalidated.

- Only operate the vehicle in closed-off areas remote from public road traffic if the ABS is switched off completely.
- Press the UP or DOWN button until ABS is marked. Press the SET button to open the menu.
- Activate the menu item using the UP or DOWN button.
- Press the SET button to switch off ABS or to select between ABS modes.

Info

Do not open the throttle during the selection.

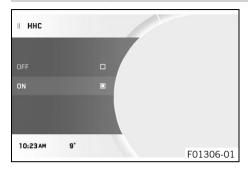
The ABS can only be reactivated by switching on the ignition again.

When the **Road** ABS mode is enabled, ABS controls both wheels.

When the **Offroad** ABS mode is enabled, ABS only controls the front wheel. The rear wheel is not controlled by ABS and may lock during braking maneuvers.

Press and	Activation of the different ABS modes.
hold the SET	
button for 3 -	
5 seconds.	

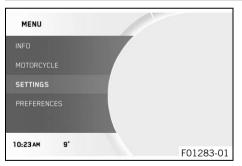
7.27.31 HHC (optional)



Condition

- The motorcycle is stationary.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Motorcycle is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until HHC is marked. Press the SET button to open the menu.
- Activate the menu item using the UP or DOWN button.
- Switch the **HHC** on or off by pressing the **SET** button.

7.27.32 **Settings**

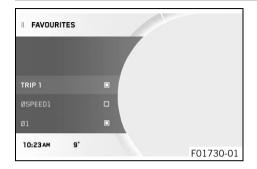


Condition

- The motorcycle is stationary.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Settings is marked. Press the SET button to open the menu.

Favorites and quick selection can be configured in **Settings**.

7.27.33 Favourites

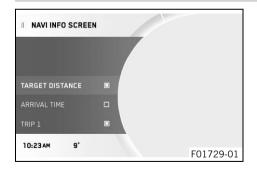


Condition

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is marked. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Favourites** is marked. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button to activate the menu item and select it with the **SFT** button

Up to eight items of information can be selected in the Favourites menu.

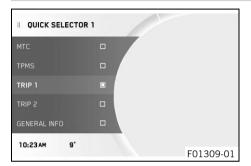
7.27.34 Navi Info Screen



- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is marked. Press the **SET** button to open the menu.
- Press the UP or DOWN button until Navi Info Screen is marked Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button to activate the menu item and select it with the **SET** button.

Up to four sets of information can be selected in the **Navi Info Screen** menu.

7.27.35 Quick Selector 1



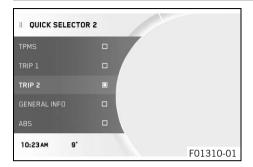
Condition

- The motorcycle is stationary.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Settings is marked. Press the SET button to open the menu.
- Press the UP or DOWN button until Quick Selector 1 is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button to activate the menu item and select it with the SET button.

A menu can be defined for direct selection in the **Quick Selector 1** menu.

When the menu is closed, the menu defined in **Quick Selector 1** is opened by pressing the **UP** button.

7.27.36 Quick Selector 2



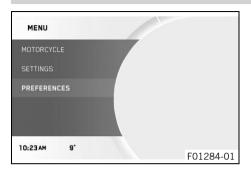
Condition

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is marked. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Quick Selector 2** is marked. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button to activate the menu item and select it with the **SET** button.

A menu can be defined for direct selection in the Quick Selector 2 menu.

When the menu is closed, the menu defined in Quick Selector 2 is opened by pressing the **DOWN** button.

7.27.37 Preferences

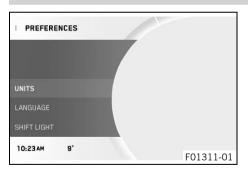


Condition

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the UP or DOWN button until Preferences is marked.
 Press the SET button to open the menu.

The combination instrument display can be configured in **Preferences**. Settings can be made for units or various values. Several functions can be enabled or disabled.

7.27.38 Units



Condition

- The vehicle is stationary.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Preferences is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button until Units is marked.
- Press the **SET** button to open the menu.

Units allows settings to be made for units or various values.

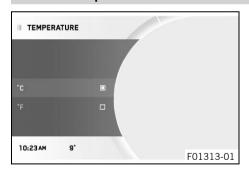
7.27.39 Distance



Condition

- The motorcycle is stationary.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Preferences is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button until Units is marked.
- Press the SET button to open the menu.
 - Press the **UP** or **DOWN** button until **Distance** is marked. Press the **SET** button to open the menu.
- Activate the menu item using the UP or DOWN button.
- Press the SET button to confirm the desired unit.

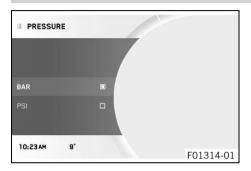
7.27.40 Temperature



- The motorcycle is stationary.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Preferences is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button until Units is marked.
- Press the SET button to open the menu.
- Press the UP or DOWN button until Temperature is marked.
 Press the SET button to open the menu.

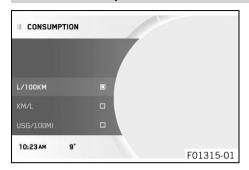
- Activate the menu item using the UP or DOWN button.
- Press the SET button to confirm the desired unit.

7.27.41 Pressure



- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the UP or DOWN button until Preferences is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button until Units is marked.
- Press the **SET** button to open the menu.
- Press the UP or DOWN button until Pressure is marked. Press the SET button to open the menu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to confirm the desired unit.

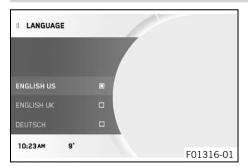
7.27.42 Consumption



Condition

- The motorcycle is stationary.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Preferences is marked.
 Press the SET button to open the menu.
- Press the **UP** or **DOWN** button until **Units** is marked.
- Press the SET button to open the menu.
- Press the **UP** or **DOWN** button until **Consumption** is marked. Press the **SET** button to open the menu.
- Activate the menu item using the UP or DOWN button.
- Press the SET button to confirm the desired unit.

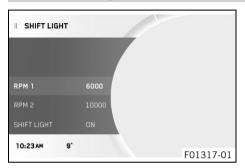
7.27.43 Language



- The motorcycle is stationary.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Preferences is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button until Language is marked. Press the SET button to open the menu.
- Press the UP or DOWN button to activate the menu item and select it with the SET button.

The menu languages are US English, UK English, German, Italian, French, and Spanish.

7.27.44 Shift Light



Condition

- The motorcycle is stationary.
- **0D0** > 1000 km (621 mi).
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Preferences is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button until Shift Light is marked. Press the SET button to open the menu.
- Activate the menu item using the UP or DOWN button.
- Switch the shift warning light on or off or set the engine speed for the gear shift recommendation by pressing the SET button.

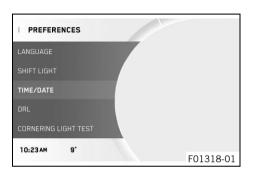


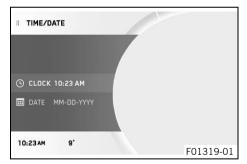
Info

When the engine speed reaches $\ensuremath{\mathbf{RPM}}$ 1, the speed display lights up red.

When the engine speed reaches **RPM 2**, the speed display flashes red.

7.27.45 Setting the time and date





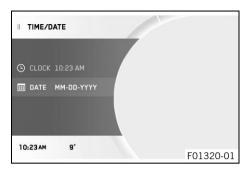
Condition

The motorcycle is stationary.

- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Preferences** appears. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Time/Date** is marked. Press the **SET** button to open the menu.

Setting the clock

- Press the UP or DOWN button until the time is marked.
- Press the SET button.
 - ✓ The hour next to Clock flashes.
- Press the **UP** or **DOWN** button until the current hour is set
- Press the **SET** button.
 - ✓ The minute next to Clock flashes.
- Press the **UP** or **DOWN** button until the current minute is set.
- Press the **SET** button.
 - The time is stored.



Setting the date

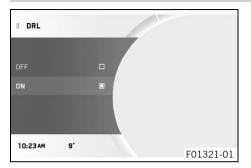


Info

The date format may differ depending on the language set.

- Press the UP or DOWN button until the date is marked.
- Press the SET button.
 - ✓ The month next to Date flashes.
- Press the UP or DOWN button until the current month is set.
- Press the SET button.
 - ✓ The day next to Date flashes.
- Press the UP or DOWN button until the current day is set.
- Press the SET button.
 - ✓ The year next to Date flashes.
- Press the **UP** or **DOWN** button until the current year is set.
- Press the **SET** button.
 - ✓ The date is stored.

7.27.46 DRL



Condition

- The motorcycle is stationary.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Preferences is marked.
 Press the SET button to open the menu.



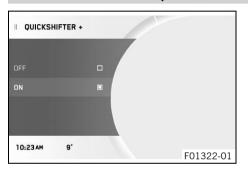
Warning

Danger of accidents When visibility is poor, the daytime running light is not a substitute for the low beam. Automatic switching between the daytime running light and low beam may only be partially available when visibility is significantly impaired due to fog, snow or rain.

- Ensure that the appropriate type of lighting is always selected.
- If necessary switch off the daytime running lights using the menu before going on a ride or when stopped so that the low beam is switched on permanently.
- Note the legal regulations regarding the daytime running light.

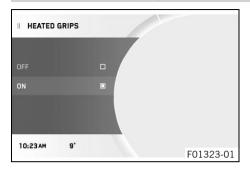
- Press the UP or DOWN button until DRL is marked. Press the SET button to open the menu.
- Activate the menu item using the UP or DOWN button.
- Press the SET button to switch the daytime running light on or off.

7.27.47 Quickshifter + (optional)



- The motorcycle is stationary.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Preferences is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button until Quickshifter + is marked.
 Press the SET button to open the menu.
- Activate the menu item using the UP or DOWN button.
- Press the SET button to switch the quickshifter + on or off.

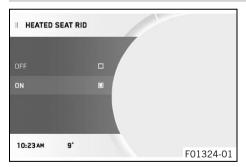
7.27.48 Heated Grips (optional)



Condition

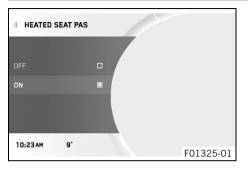
- The motorcycle is stationary.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Preferences is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button until Heated Grips is marked.
 Press the SET button to open the menu.
- Activate the menu item using the UP or DOWN button.
- Switch the **Heated Grips** on or off by pressing the **SET** button.

7.27.49 Heated Seat Rid (optional)



- The motorcycle is stationary.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Preferences is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button until Heated Seat Rid is marked.
 Press the SET button to open the menu.
- Activate the menu item using the UP or DOWN button.
- Switch the **Heated Seat Rid** on or off by pressing the **SET** button.

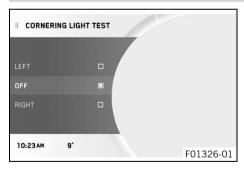
7.27.50 Heated Seat Pas (optional)



Condition

- The motorcycle is stationary.
- Press the SET button when the menu is closed.
- Press the UP or DOWN button until Preferences is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button until Heated Seat Pas is marked.
 Press the SET button to open the menu.
- Activate the menu item using the UP or DOWN button.
- Switch the **Heated Seat Pas** on or off by pressing the **SET** button.

7.27.51 Cornering Light Test



- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the UP or DOWN button until Preferences is marked.
 Press the SET button to open the menu.
- Press the UP or DOWN button until Cornering Light Test is marked. Press the SET button to open the menu.
- Activate the menu item using the UP or DOWN button.



Info

The **Cornering Light Test** is performed on the left cornering light in the **Left** submenu.

The **Cornering Light Test** is performed on the right cornering light in the **Right** submenu.

The **Cornering Light Test** is completed in the **Off** submenu.

 Press the SET button in order to perform or switch off the desired Cornering Light Test.

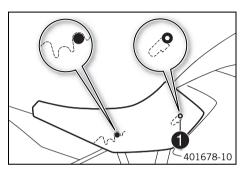


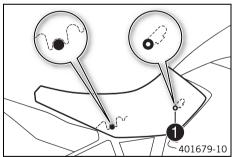
Info

The respective cornering light segments light up in succession, starting with the lower segment.

When the test of the respective cornering light is complete, the upper segment lights up continuously.

8.1 Setting the front rider's seat





Preparatory work

- Remove the passenger seat. (p. 182)

Lower the front rider's seat:

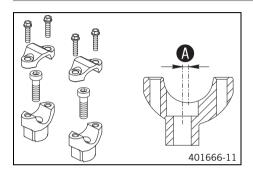
 Attach the front rider's seat to the fuel tank at the recesses 1, and push the front rider's seat down and forward at the same time.

Raise the front rider's seat:

- Attach the front rider's seat to the fuel tank at the recesses , and push the rider's seat up and forward at the same time.
- Finally, check that the front rider's seat is correctly mounted.

Finishing work

8.2 Handlebar position



The holes on the handlebar support are placed at a distance of **A** from the center.

Hole distance (A) 3.5 mm (0.138 in)

The handlebar can be mounted in two different positions. In this way, the handlebar can be mounted in the position that is most comfortable for the rider.

8.3 Adjusting the handlebar position 4



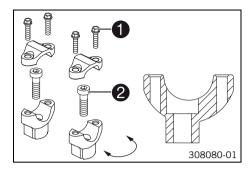
Warning

Danger of accidents A repaired handlebar poses a safety risk.

If the handlebar is bent or straightened, the material becomes fatigued. The handlebar may break as a result.

- Change the handlebar if the handlebar is damaged or bent.

8 ERGONOMICS



 Remove screws 1. Remove the handlebar clamps. Remove the handlebar and lay it to one side.



Info

Cover the components to protect them against damage. Do not bend the cables and lines.

- Remove screws 2. Take off the handlebar supports.
- Place the handlebar supports in the required position. Mount and tighten screws 2.

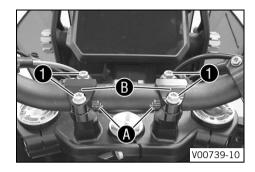
Guideline

Screw, handle-	M10	40 Nm (29.5 lbf ft)
bar support		Loctite®243™



Info

Position the left and right handlebar supports evenly.



Position the handlebar.



Info

Make sure the cables and wiring are positioned correctly.

Position the handlebar clamps. Mount and evenly tighten screws 1.

Guideline

Screw, handlebar	M8	20 Nm (14.8 lbf ft)
clamp		

- ✓ The markings ♠ of the handlebar scale are located centrally between the handlebar clamps.

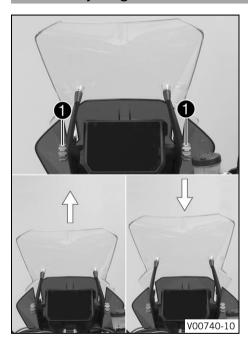


Info

Make sure the gap widths are even.

8 ERGONOMICS

8.4 Adjusting the windshield



 Turn the adjusting wheel 1 to bring the windshield in the required position.

134

8.5 Adjusting the basic position of the clutch lever



 Adjust the basic position of the clutch lever to your hand size by turning adjusting screw ①.



Info

When the adjusting screw is turned clockwise, the clutch lever moves closer to the handlebar.
When the adjusting screw is turned counterclockwise, the clutch lever moves away from the handlebar.
The range of adjustment is limited.
Only turn the adjusting screw by hand, and do not use force.

Do not make any adjustments while riding.

8 ERGONOMICS

8.6 Adjusting the basic position of the hand brake lever



 Adjust the basic position of the hand brake lever to your hand size by turning adjusting wheel 1.

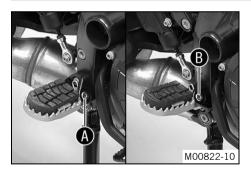


Info

Push the hand brake lever forward and turn the adjusting wheel.

Do not make any adjustments while riding.

8.7 Rider footrests



The rider footrests can be mounted in one of two positions.

Possible states

- Rider footrests, low A
- Rider footrests, high **B**

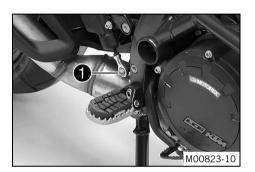
136

8.8 Adjusting the footrests &

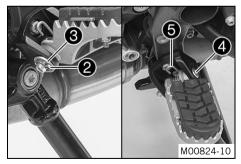


Info

The operations on the footrest brackets are the same for the left and right sides.



- Remove screw 1.
 - ✓ The foot brake lever swings up to the stop.



- Remove pin 2 with washer 3.
- Carefully remove the pin 4 of the rider footrest.

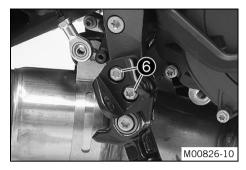


Info

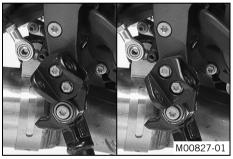
The spring is under high tension and can pop out when the pin is removed.

Take off the rider footrest 6 with the spring.

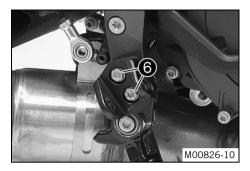
8 ERGONOMICS



- Remove screws **6**.

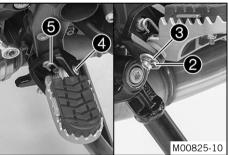


Adjust the footrest bracket to the desired position.



Mount and tighten screws **6**. Guideline

Screw, front	M8	25 Nm (18.4 lbf ft)
footrest bracket		Loctite®243™

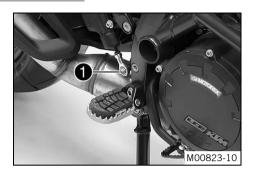


Mount the rider footrest with spring **5** and pin **4**.

Footrest spring plier (58429083000)

Mount the washer **3** and pin **2**.

8 ERGONOMICS



- Position the foot brake lever.
- Mount and tighten screw 1.
 Guideline

Screw, ball joint	M6	10 Nm (7.4 lbf ft)
of push rod on		Loctite®243™
foot brake cylin-		
der		

8.9 Checking the basic position of the shift lever



Info

When driving, the shift lever must not touch the rider's boot when in the basic position.

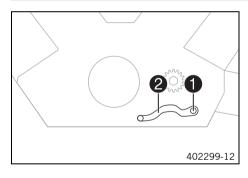
If the shift lever is permanently touching the boot, the transmission will be subject to excessive load; this can cause a malfunction of the quickshifter.

- Sit on the vehicle in the riding position and determine distance **A** between the upper edge of your boot and the shift lever.

Distance between shift lever	10 20 mm (0.39
and upper edge of boot	0.79 in)

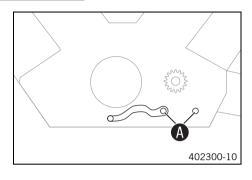
- » If the distance does not meet specifications:

8.10 Adjusting the basic position of the shift lever &



 Remove screw 1 with the washers and take off shift lever 2.

8 ERGONOMICS



- Clean gear teeth (A) of the shift lever and shift shaft.
- Mount the shift lever on the shift shaft in the required position and engage the gearing.



Info

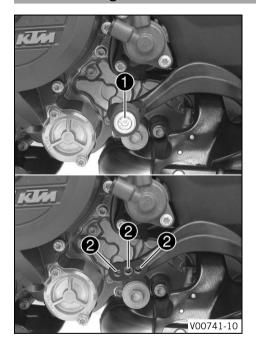
The range of adjustment is limited.

The shift lever must not come into contact with any other vehicle components during the shift procedure.

Mount and tighten screw with the washers.
 Guideline

Screw, shift	M6	15 Nm (11.1 lbf ft)
lever		Loctite®243™

8.11 Setting the shift lever stub



- Remove screw along with the shift lever stub.
- Position the shift lever stub with the screw in one of drilled holes 2 depending on the desired lever length.

Guideline

Standard	Middle hole

- Tighten the screw.

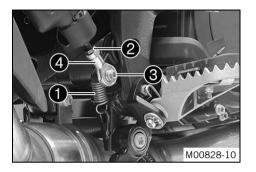
Guideline

Remaining screws,	M6	10 Nm (7.4 lbf ft)
chassis		

•

8 ERGONOMICS

8.12 Adjusting the basic position of the foot brake lever 4



- Detach spring 1.
- Loosen nut 2.
- Remove screw 3.
- To adjust the basic position of the foot brake lever to individual requirements, turn ball joint 4 accordingly.



Info

The range of adjustment is limited.

The screw must be screwed into the ball joint by at least 5 turns.

- Hold ball joint **4** and tighten nut **2**.

Guideline

Remaining nuts,	M6	10 Nm (7.4 lbf ft)
chassis		

Mount and tighten screw 3.

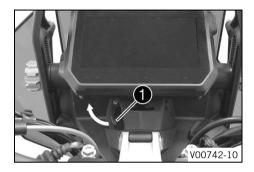
Guideline

Screw, ball joint	M6	10 Nm (7.4 lbf ft)
of push rod on		Loctite®243™
foot brake cylin-		
der		

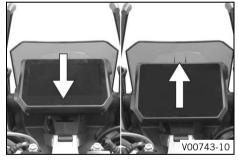
Attach spring 1.

•

8.13 Adjusting the tilt of the combination instrument

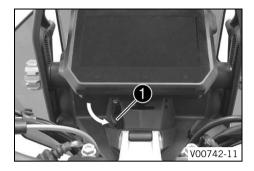


- Pull clamping lever 1 in the direction of the arrow.
 - ✓ The combination instrument is unlocked.



To move the combination instrument to the desired position, press the combination instrument upward or downward.

8 ERGONOMICS



- Pull clamping lever **1** in the direction of the arrow.
 - ✓ The combination instrument is locked.

9.1 Advice on preparing for first use



Danger

Danger of accidents A rider who is not fit to ride poses a danger to him or herself and others.

- Do not operate the vehicle if you are not fit to ride due to alcohol, drugs or medication.
- Do not operate the vehicle if you are physically or mentally impaired.



Warning

Risk of injury Missing or poor protective clothing presents an increased safety risk.

- Wear appropriate protective clothing such as helmet, boots, gloves as well as trousers and a jacket with protectors on all rides.
- Always wear protective clothing that is in good condition and meets the legal regulations.



Warning

Danger of crashing Different tire tread patterns on the front and rear wheel impair the handling characteristic.

Different tire tread patterns can make the vehicle significantly more difficult to control.

- Make sure that only tires with a similar tire tread pattern are fitted to the front and rear wheel.



Warning

Danger of accidents Non-approved or non-recommended tires and wheels impact the handling characteristic.

Only use tires/wheels approved by KTM with the corresponding speed index.

9 PREPARING FOR USE



Warning

Danger of accidents New tires have reduced road grip.

The contact surface on new tires is not yet roughened.

Run in new tires with moderate riding at alternating angles.
 Running-in phase
 200 km (124 mi)



Warning

Danger of accidents The brake system fails in the event of overheating.

If the foot brake lever is not released, the brake linings drag continuously.

- Take your foot off the foot brake lever when you are not braking.



Info

When using your vehicle, remember that others may feel disturbed by excessive noise.

- Make sure that the pre-sales inspection work has been carried out by an authorized KTM workshop.
 - ✓ You receive a delivery certificate and the Service & Manufacturer Warranty Booklet at vehicle handover.
- Before riding for the first time, read the entire Owner's Manual carefully.
- Get to know the controls.
- Adjust the motorcycle to your requirements, as described in the "Ergonomics" chapter.
- Get used to the handling characteristic of the motorcycle in a suitable area before making a longer trip. Try
 also to ride as slowly as possible and in a standing position to get a better feel for the motorcycle.
- Hold the handlebar firmly with both hands and keep your feet on the footrests when riding.

Run the engine in. (
 p. 149)

9.2 Running in the engine

During the running-in phase, do not exceed the specified engine speed.

Guideline

	Maximum engine speed	
ſ	During the first: 1,000 km (620 mi)	6,500 rpm
ſ	After the first: 1,000 km (620 mi)	10,250 rpm

Avoid fully opening the throttle!



Info

If the maximum engine speed is exceeded before the first service, the shift warning light flashes.

9.3 Loading the vehicle



Warning

Danger of accidents Total weight and axle loads influence the handling characteristic.

The total weight consists of: motorcycle ready for operation and with a full tank, driver and passenger with protective clothing and helmet, and luggage.

Do not exceed the maximum permissible overall weight or the axle loads.

9 PREPARING FOR USE



Warning

Danger of accidents Improper mounting of cases or the tank rucksack impairs the handling characteristic.

Mount and secure cases and tank rucksack according to the manufacturer's instructions.



Warning

Danger of accidents Unstable handling characteristics at high speed.

 Adapt your speed according to your payload. Ride more slowly if your motorcycle is loaded with cases or other baggage.

Maximum speed with luggage

150 km/h (93.2 mph)



Warning

Danger of accidents The luggage system will be damaged if it is overloaded.

Read the manufacturer information on maximum payload when mounting cases.



Warning

Danger of accidents Luggage which has slipped impairs visibility.

If the tail light is covered, you are less visible to traffic behind you, especially when it is dark.

Check that your luggage is fixed properly at regular intervals.



Warning

Danger of accidents A high payload alters the handling characteristic and increases the stopping distance.

Adapt your speed to your payload.



Warning

Danger of accidents Pieces of luggage which have slipped impair the handling characteristic.

- Check that your luggage is fixed properly at regular intervals.



Warning

Fire hazard The hot exhaust system may burn luggage.

- Fasten your luggage in such a way that it cannot be burned or singed by the hot exhaust system.
- If luggage is carried, ensure it is fixed firmly as close as possible to the center of the vehicle and ensure even
 weight distribution between the front and rear wheels.
- Do not exceed maximum permissible weight and maximum permissible axle loads.

Guideline

Maximum permissible total weight	460 kg (1,014 lb.)
Maximum permissible front axle load	175 kg (386 lb.)
Maximum permissible rear axle load	300 kg (661 lb.)

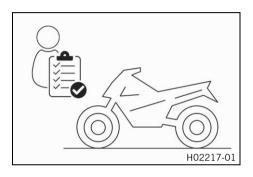
•

10.1 Checks and maintenance measures when preparing for use



Info

Before every trip, check the condition of the vehicle and ensure that it is roadworthy. The vehicle must be in perfect technical condition when it is being operated.



- Check the engine oil level. (
 p. 279)
- Check the front brake fluid level. (
 p. 220)

- Check the rear brake linings. (🕮 p. 229)
- Check that the brake system is functioning properly.

- Check tire pressure. (🕮 p. 246)
- Check the settings of all controls and ensure that they can be operated smoothly.
- Check that the electrical system is functioning properly.
- Check that luggage is properly secured.
- Check the setting of the rear mirror.
- Check the fuel level.

10.2 Starting



Danger

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

- Always make sure there is sufficient ventilation when running the engine.
- Use effective exhaust extraction when starting or running the engine in an enclosed space.



Caution

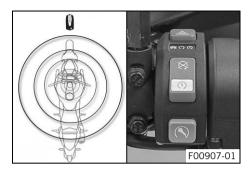
Danger of accidents Electronic components and safety devices will be damaged if the 12-V battery is discharged or missing.

Never operate the vehicle with a discharged 12-V battery or without a 12-V battery.

Note

Engine damage High revving speed with a cold engine negatively impacts the lifespan of the engine.

Always run the engine warm at a low speed.



- Take the motorcycle off side stand and sit in the motorcycle.
- Bring the Race-on key within range of the antenna.
- Ensure that the Race-on key stays in range while riding.
 Guideline

Maximum range of the Race-	1.5 m (4.9 ft)
on key around the antenna	



Info

The range may be reduced by decreases in battery voltage of the Race-on key and interfering radio waves. If the battery voltage of the Race-on key is too low, one of the ignition keys must be held in the area of the antenna (p. 42) and must be safely stored again after starting.

- Make sure that the emergency OFF switch/electric starter button is in the middle position ○.
- Switch on ignition; to do this, briefly press the Race-on tip switch ® (maximum of 1 second).
 - ✓ The steering is unlocked.
 - ✓ The function check of the combination instrument is run.
 - ✓ The ABS indicator lamp goes out when you start off.



Info

If the handlebar does not unlock, move the handlebar slightly.

- Shift the transmission into neutral N.
 - ✓ The green idle indicator lamp

 lights up.
- Turn the emergency OFF switch/electric starter button to the lower position ③.



i

Info

Do not press the emergency off switch/electric starter button into the lower position ③ until the combination instrument function check has been completed. When starting, **DO NOT** open the throttle. If you open the throttle during the starting procedure, fuel is not injected by the engine management system and the engine cannot start.

Press the emergency OFF switch/electric starter button into the lower position $^{\textcircled{3}}$ for a maximum of 5 seconds. Wait for a least 5 seconds before trying again.

This motorcycle is equipped with a safety starting system. You can only start the engine if the transmission is in neutral or if the clutch lever is pulled when a gear is engaged. If the side stand is folded out and you shift into gear, the engine stops.

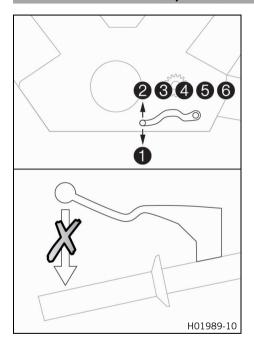
•

10.3 Starting off

 Pull the clutch lever, engage 1st gear, release the clutch lever slowly and simultaneously open the throttle carefully.

4

10.4 Quickshifter + (optional)



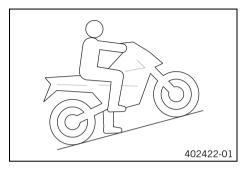
If the $\underline{\text{quickshifter +}}$ (optional) is activated, you can shift up and down without actuating the clutch.

Because there is no need to close the throttle grip, uninterrupted gear shifts are possible.

The quickshifter + uses the shifter shaft position to check whether or not a shift should be initiated, and sends a corresponding signal to the engine control.

If the quickshifter + is disabled in the combination instrument, the clutch needs to be actuated in the normal way for each shift.

10.5 Starting off with HHC (optional)



The **HHC** is an optional auxiliary function of the brake system. The **HHC** prevents accidental rolling back of the motorcycle on hills.

The **HHC** recognizes stopping on hills and operates the rear brake. After releasing the brake lever, the brake force is maintained for a maximum of 5 seconds as long as the motorcycle is not moving forward.

When driving off the **HHC** releases the rear brake automatically.



Info

When the **HHC** is active, the TC indicator lamp flashes When the ignition is switched on, the **HHC** can still be active, even if the engine is stopped.

To roll back with active **HHC**, wait 5 seconds, shift to neutral, or switch off the ignition.

If the **HHC** does not detect a start off after 5 seconds, the braking force is automatically reduced gently.

When a brake lever is actuated, the **HHC** is re-activated.

10.6 Shifting, riding



Warning

Danger of accidents Abrupt load alterations can cause the vehicle to get out of control.

- Avoid abrupt load alterations and sudden braking actions.
- Adapt your speed to the road conditions.



Warning

Danger of accidents If you change down at high engine speed, the rear wheel blocks and the engine races.

- Do not change into a low gear at high engine speed.



Warning

Danger of accidents Adjustments to the vehicle distract attention from traffic activity.

- Make all adjustments when the vehicle is at a standstill.



Warning

Risk of injury The passenger may fall from the motorcycle if they conduct themselves incorrectly.

- Ensure that the passenger sits correctly on the passenger seat, places his or her feet on the passenger foot pegs and holds on to the rider or the grab handles.
- Note the regulations governing the minimum age of passengers in your country.



Warning

Danger of accidents A risky riding style constitutes a major risk.

 Comply with traffic regulations and ride defensively and with foresight to detect sources of danger as early as possible.



Warning

Danger of accidents Cold tires have reduced road grip.

 Ride the first miles carefully on every journey at moderate speed until the tires reach operating temperature.



Warning

Danger of accidents New tires have reduced road grip.

The contact surface on new tires is not yet roughened.

Run in new tires with moderate riding at alternating angles.
 Running-in phase
 200 km (124 mi)



Warning

Danger of accidents Total weight and axle loads influence the handling characteristic.

The total weight consists of: motorcycle ready for operation and with a full tank, driver and passenger with protective clothing and helmet, and luggage.

Do not exceed the maximum permissible overall weight or the axle loads.



Warning

Danger of accidents Pieces of luggage which have slipped impair the handling characteristic.

- Check that your luggage is fixed properly at regular intervals.



Warning

Danger of accidents A fall can damage the vehicle more seriously than it may first appear.

- Check the vehicle after a fall as you do when preparing for use.

Note

Engine damage Unfiltered intake air has a negative effect on the service life of the engine.

Dust and dirt will enter the engine without an air filter.

Never start to use the vehicle without an air filter.

Note

Engine failure Overheating damages the engine.

- If the coolant temperature warning is displayed, stop immediately and take care not to endanger yourself or other traffic participants in the process.
- Allow the engine and cooling system to cool down.
- Check and, if necessary, correct the coolant level on the cooling system while it is in a cooled state.

Note

Transmission damage Incorrect use of the quickshifter+ will damage the transmission.

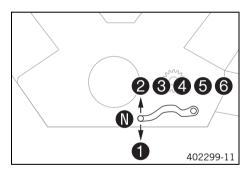
The quickshifter+ can only be used if the function is enabled in the combination instrument. The quickshifter+ is not active if you pull the clutch lever.

Only use the quickshifter+ in the permitted speed range shown.



Info

If you hear unusual noises while riding, stop immediately, switch off the engine, and contact an authorized KTM workshop.



- Shift into a higher gear when conditions allow (incline, road situation, etc.).
- Release the throttle while simultaneously pulling the clutch lever, shift into the next gear, release the clutch lever, and open the throttle.



Info

The gear positions can be seen in the figure. The idle position is between the first and second gears. First gear is used for starting off or for steep inclines.

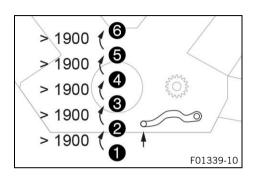
 After reaching maximum speed by fully opening the throttle grip, turn the throttle back so it is ¾ open. This will barely reduce the speed but fuel consumption will be considerably lower.

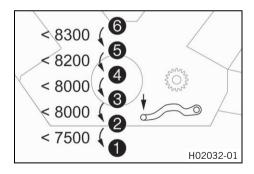
- Accelerate only up to a speed suitable for the road surface and weather conditions. Particularly in bends, do not shift, and accelerate very carefully.
- Brake if necessary and close the throttle at the same time in order to shift down.
- Pull the clutch lever and shift into a lower gear, release the clutch lever slowly, and open the throttle or shift again.
- If the engine stalls (e.g. at a crossroads), just pull the clutch lever and press the electric starter button. The transmission must not be shifted into neutral.
- Switch off the engine if you are likely to be running at idle speed or stationary for a long time.
- If the oil pressure warning lamp lights up during a trip, stop as soon as it is safe to do so and switch off the engine. Contact an authorized KTM workshop.
- If the malfunction indicator lamp lights up during a trip, please contact an authorized KTM workshop as soon as possible.



Info

Very important messages are stored in the **Warning** menu.





 If the ice warning * appears on the combination instrument, there may be black ice on the road surface. Adjust your speed to the road conditions.

Condition

The quickshifter + (optional) is enabled.

If the <u>quickshifter +</u> is enabled in the combination instrument, one can shift up in the speed range shown without pulling the clutch lever.



Info

The minimum engine speed before shifting up in revolutions per minute is shown in the figure. Pull the shift lever to the stop quickly without changing the throttle twist grip position.

If the quickshifter + is enabled in the combination instrument, one can shift down in the speed range shown without pulling the clutch lever.



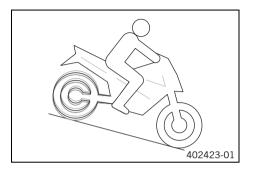
Info

The maximum engine speed before shifting down in revolutions per minute is shown in the figure.

Depress the shift lever to the stop quickly without changing the throttle twist grip position.

•

10.7 MSR (optional)



The <u>MSR</u> is an optional auxiliary function of the engine control. If the engine braking effect is too great, the **MSR** prevents the rear wheel from locking or sliding away on a sloping position.

To avoid slip of the rear wheel, the **MSR** only opens the throttle valve as far as absolutely necessary.

The **MSR** is applied on surfaces, where the friction is to low to open the slipper clutch.

To further increase ride safety, the **MSR** is slope dependent.



Info

If <u>ABS</u> is disabled, <u>MTC</u> is disabled or ABS Mode **Offroad** is enabled, the **MSR** is not active.

10.8 Applying the brakes



Warning

Danger of accidents Moisture and dirt impair the brake system.

- Brake carefully several times to dry out and remove dirt from the brake linings and the brake discs.



Warning

Danger of accidents A spongy pressure point on the front or rear brake reduces braking efficiency.

 Check the brake system and do not continue riding until the problem is eliminated. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of accidents The brake system fails in the event of overheating.

If the foot brake lever is not released, the brake linings drag continuously.

- Take your foot off the foot brake lever when you are not braking.



Warning

Danger of accidents Higher total weight increases the stopping distance.

- Take the longer stopping distance into account when carrying a passenger or luggage with you.



Warning

Danger of accidents Salt on the roads impairs the brake system.

Brake carefully several times to remove salt from the brake linings and the brake discs.



Warning

Danger of accidents ABS may increase the stopping distance in certain situations.

Adjust application of the brakes to the respective riding situation and riding surface conditions.



Warning

Danger of accidents Excessively forceful application of the brakes blocks the wheels.

The ABS effectiveness is only ensured if it is switched on.

Leave the ABS switched on in order to benefit from the protective effect.



Warning

Danger of accidents Driving aids can only prevent a rollover within the physical limitations.

It is not always possible to compensate for extreme riding situations, for example with luggage loaded with a high center of gravity, varying road surfaces, steep descents or full braking without disengaging the gear.

- Adapt your riding style to the road conditions and your driving ability.
- When braking, release the throttle and apply the front and rear brakes at the same time.



Info

When the <u>ABS</u> is enabled, maximum braking power can be achieved even with low road grip surfaces such as sandy, wet, or slippery terrain without locking the wheels.



Warning

Danger of accidents The rear wheel can lock due to the engine braking effect.

Pull in the clutch, if you perform emergency or full braking, or if you brake on a slippery ground.



Warning

Danger of accidents Banked or laterally sloping ground reduces the maximum possible delay.

- If possible finish braking before going into a bend.
- Always finish braking before you go into a bend. Shift down to a lower gear appropriate to your speed.

Use the braking effect of the engine on long downhill stretches. To do so, shift back one or two gears, but do
not overrev the engine. This means that significantly less braking is required and the brake system does not
overheat.

10.9 Stopping, parking



Warning

Risk of injury People who act without authorization endanger themselves and others.

If a valid transponder is in range, the vehicle can be started.

- Do not leave the vehicle unattended if the engine is running.
- Never leave the vehicle unattended if the Race-on key or the black Race-on key are close the the vehicle.
- Protect the vehicle against access by unauthorized persons.
- Lock the steering if you leave the vehicle unattended.



Warning

Danger of burns Some vehicle components become very hot when the vehicle is operated.

- Do not touch any parts such as the exhaust system, radiator, engine, shock absorber, or brake system before the vehicle parts have cooled down.
- Let the vehicle parts cool down before you perform any work on the vehicle.

Note

Fire hazard Hot vehicle components pose a fire hazard and explosion risk.

- Do not park the vehicle near to materials which are highly flammable or explosive.
- Allow the vehicle to cool down before covering it.

Note

Material damage The vehicle may be damaged by incorrect procedure when parking.

Significant damage may be caused if the vehicle rolls away or falls over.

The components for parking the vehicle are designed only for the weight of the vehicle.

- Park the vehicle on a firm and level surface.
- Ensure that nobody sits on the vehicle when the vehicle is parked on a stand.
- Apply the brakes on the motorcycle.
- Shift the transmission into neutral N.
- Switch off ignition to do this briefly press the Race-on button

 (maximum of 1 second) with the ignition switched on.



Info

If the engine is switched off with the emergency OFF switch and the ignition remains switched on at the Race-on tip switch, the power supply to most power consumers remains unbroken. This discharges the 12-V battery. You should therefore always switch off the engine with the Race-on tip switch – the emergency OFF switch is intended for emergencies only.

Park the motorcycle on a firm surface.

Alternative 1

Swing the side stand forward with your foot as far as it will go and lean the vehicle on it.

Alternative 2

- Raise the vehicle with the center stand. (p. 180)
- - ✓ The steering is locked.



Info

If the steering lock does not engage, move the handlebar slightly.

10.10 Transporting

Note

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

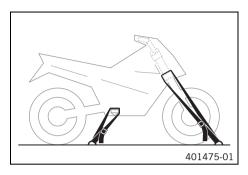
Park the vehicle on a firm and level surface.

Note

Fire hazard Hot vehicle components pose a fire hazard and explosion risk.

- Do not park the vehicle near to materials which are highly flammable or explosive.
- Allow the vehicle to cool down before covering it.

4



- Switch off the engine.
- Use tension belts or other suitable devices to secure the motorcycle against falling over or rolling away.

10.11 Refueling



Danger

Fire hazard Fuel is highly flammable.

The fuel in the fuel tank expands when warm and can escape if overfilled.

- Do not refuel the vehicle in the vicinity of open flames or lit cigarettes.
- Switch off the engine for refueling.
- Make sure that no fuel is spilled; particularly not on hot parts of the vehicle.
- If any fuel is spilled, wipe it off immediately.
- Observe the specifications for refueling.



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

- Avoid skin, eye and clothing contact with fuel.
- Immediately consult a doctor if you swallow fuel.
- Do not inhale fuel vapors.
- In case of skin contact, rinse the affected area with plenty of water.
- Rinse the eyes thoroughly with water, and consult a doctor in case of fuel contact with the eyes.
- Change your clothing in case of fuel spills on them.

Note

Material damage Inadequate fuel quality causes the fuel filter to quickly become clogged.

In some countries and regions, the available fuel quality and cleanliness may not be sufficient. This will result in problems with the fuel system.

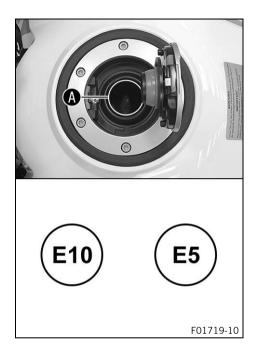
 Refuel only with clean fuel that meets the specified standards. (Your authorized KTM workshop will be glad to help.)



Note

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

Do not allow fuel to enter the groundwater, the soil, or the sewage system.



- Switch off the engine.
- Fill the fuel tank with fuel up to the lower edge of the filler neck.

Total fuel tank	23	Super unleaded
capacity, approx.	(6.1 US gal)	(ROZ 95/RON
		95/PON 91)
		(🕮 p. 326)

173

11 SERVICE SCHEDULE

11.1 Additional information

Any further work that results from the compulsory work or from the recommended work must be ordered separately and invoiced separately.

Different service intervals may apply in your country, depending on the local operating conditions.

Individual service intervals and scopes may change in the course of technical developments. The most up-to-date service schedule can always be found on KTM Dealer.net. Your authorized KTM dealer will be happy to advise you.

11.2 Required work

		Ev	ery t	wo ye	ears
		E۱	ery y	ear/	
every 30,000 km	1 (18	,600	mi)		
every 15,000 km (9	,300	mi)			
after 1,000 km (620	mi)				
Read out the fault memory using the KTM diagnostics tool.	0	•	•	•	•
Check that the electrical system is functioning properly.	0	•	•	•	•
Change the engine oil and oil filter and clean the oil screens. ◄ (의 p. 280)	0	•	•	•	•
Check the front brake linings. (🕮 p. 224)	0	•	•	•	•
Check the rear brake linings. (🕮 p. 229)	0	•	•	•	•
Check the brake discs. (@ p. 219)	0	•	•	•	•
Check the brake lines for damage and leakage. 🖫	0	•	•	•	•
Change the front brake fluid. 🌂					•

		Ev	ery t	wo ye	ars
	E		ery y	ear/	
every 30,000 ki	n (18	,600	mi)		
every 15,000 km (\$	9,300	mi)			
after 1,000 km (620) mi)				
Change the rear brake fluid. 🔏					•
Change the hydraulic clutch fluid. 🌂					•
Check the front brake fluid level. (p. 220)	0	•	•	•	
Check the rear brake fluid level. (🕮 p. 225)	0	•	•	•	
Check/correct the fluid level of the hydraulic clutch. (IP p. 193)		•	•	•	
Check the shock absorber and fork for leaks. Perform service as needed and depending on how the vehicle is used.	0	•	•	•	•
Clean the dust boots of the fork legs. ◀ (興 p. 208)		•	•		
Check steering head bearing play. (🕮 p. 195)	0	•	•	•	•
Check the tire condition. (🕮 p. 243)	0	•	•	•	•
Check tire pressure. (@ p. 246)	0	•	•	•	•
Check the chain, rear sprocket, and engine sprocket. (🕮 p. 190)		•	•	•	•
Check the chain tension. (🕮 p. 187)	0	•	•	•	•
Change the spark plugs (air filter removed). 🌂			•		
Check the valve clearance (air filter and spark plugs removed).			•		
Change the SAS membrane. ◀			•		
Check the cables for damage and routing without sharp bends. (fuel tank removed) 🔏		•	•	•	•

11 SERVICE SCHEDULE

		Ev	ery t	ио уе	ars
		E۱	ery y	ear	
every 30,000	km (18	,600	mi)		
every 15,000 km	(9,300	mi)			
after 1,000 km (62	20 mi)				
Check the coolant level in the compensating tank. (p. 272)	0	•	•	•	•
Change the air filter, clean the air filter box.		•	•		
Check the fuel pressure.		•	•	•	•
Check the headlight setting. (IR p. 267)	0	•	•		
Check that the radiator fan is functioning properly.	0	•	•	•	•
Final check: Check the vehicle is roadworthy and take a test ride.	0	•	•	•	•
Read out the error memory after the test ride using the KTM diagnostics tool.	0	•	•	•	•
Set the service interval display. 🌂	0	•	•	•	•
Make the service entry in KTM Dealer.net and in the Service & Manufacturer Warranty Booklet.	0	•	•	•	•

- One-time interval
- Periodic interval

11.3 Recommended work

		Ev	ery fo	our ye	ars
		Εν	ery y	/ear	
every 30,000 k	m (18	,600	mi)		
every 15,000 km (9,300	mi)			
after 1,000 km (62	O mi)				
Check the frame. ◀			•		
Check the link fork.			•		
Check/clean the oil nozzle for clutch lubrication. ◀	0	•	•		
Check the fork bearing for play. ◀		•	•		
Check the wheel bearing for play.		•	•		
Grease all moving parts (e.g., side stand, hand lever, chain,) and check for smooth operation. ◀	0	•	•	•	•
Empty the drainage hoses.	0	•	•	•	•
Check all hoses (e.g. fuel, cooling, bleeder, drainage, etc.) and sleeves for cracking, leaks, and incorrect routing. ◀		•	•	•	•
Check the screws and nuts for tightness. ◀	0	•	•	•	•
Check the antifreeze.	0	•	•	•	
Change the coolant. 4					•

- One-time interval
- Periodic interval

12 SUSPENSION SETTING

12.1 Fork/shock absorber

Semi-active suspension **WP Semi-active Suspension** can be used to tune the suspension individually without the use of tools.

Electronic suspension setting **WP Semi-active Suspension** constantly regulates the damping behavior of the suspension taking into account various sensor data.

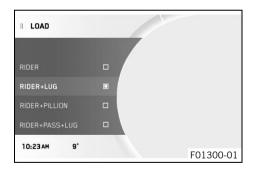
As a result, the electronic damping valves are matched to the current driving situation and terrain characteristics as well as the settings made by the rider in the **Load** and **Damping** menus.

Always adapt the suspension to your riding style and the payload.

In the Load menu, the suspension can be set to the loading condition.

In the **Damping** menu, the damping behavior of the suspension can be set.

12.2 Load



The settings for different payloads can be selected in the **Load** menu. A selection can be made between one-person operation, one-person operation with luggage, two-person operation, and two-person operation with luggage. The payload selected most recently is shown in the display.

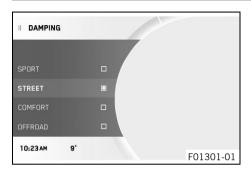


Info

For the setting to be accepted by the motorcycle, the motorcycle must be stationary and the engine must be running.

The symbol of the last payload flashes until the new setting is adopted.

12.3 Damping



Possible states

- SPORT Tight tuning of the suspension components with very direct feedback from the chassis
- STREET Normal tuning of the suspension components with direct feedback from the chassis
- COMFORT Soft tuning of the suspension components with good feedback from the chassis
- OFFROAD Tuning of the suspension components for use on light offroad terrain (unpaved roads)

Various settings for the damping of the suspension components can be selected in the **Damping** menu. **SPORT**, **STREET**, **COMFORT** and **OFFROAD** are available.

13.1 Raising the vehicle with the center stand

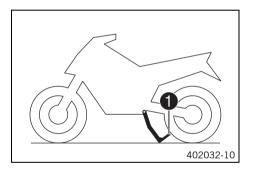
Note

Material damage The vehicle may be damaged by incorrect procedure when parking.

Significant damage may be caused if the vehicle rolls away or falls over.

The components for parking the vehicle are designed only for the weight of the vehicle.

- Park the vehicle on a firm and level surface.
- Ensure that nobody sits on the vehicle when the vehicle is parked on a stand.



- Stand to the left of the vehicle.
- Hold the handlebar with your left hand and push the center stand onto the ground with your right foot.
- Put your entire weight on arm of the center stand while pulling the vehicle up at the left grab handle.
 - ✓ The center stand is folded out to the stop.

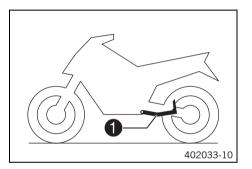
•

13.2 Removing the vehicle from the center stand

Note

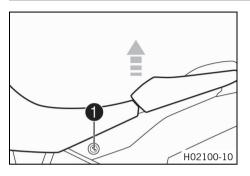
Danger of damage The parked vehicle can roll away or fall over.

Park the vehicle on a firm and level surface.



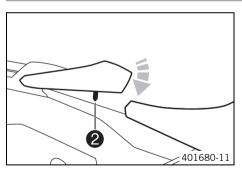
- Make sure that the steering is unlocked.
- Move the vehicle forward with both hands on the handlebar.
- While the vehicle tips off the center stand, actuate the front brake to stop the vehicle from rolling away.
- Check that the center stand 1 is folded all the way up.

13.3 Removing the passenger seat



- Insert the Race-on key or the black ignition key into the seat lock and turn clockwise.
- Raise the front of the passenger seat, pull toward the fuel tank, and take off from above.
- Remove the ignition key.

13.4 Mounting the passenger seat



 Attach the hooks on the passenger seat 1 to the hanger on the subframe.



Info

Ensure that the seat heating cable is correctly routed.

- Lower the front of the passenger seat and push it toward the rear at the same time.
- Position locking pin 2 in the lock housing and press the passenger seat forward until the locking pin engages with an audible click.

- Check that the passenger seat is mounted correctly.

13.5 Removing the front rider's seat

A M00856-10

Preparatory work

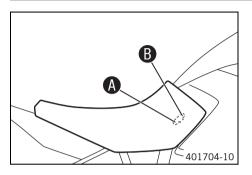
- Remove the passenger seat. (p. 182)

Main work

Lift the rider's seat back and unhook in the A area.

.....

13.6 Mounting the front rider's seat



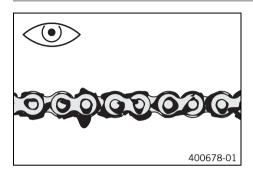
Main work

- Attach the recesses on the front rider's seat to the fuel tank at the desired seat position (A) or (B), and push the front rider's seat forward while lowering it at the rear.
- Finally, check that the front rider's seat is correctly mounted.

Finishing work

_

13.7 Checking for chain dirt



- Check the chain for coarse dirt accumulation.
 - » If the chain is very dirty:
 - Clean the chain. (p. 185)

13.8 Cleaning the chain



Warning

Danger of accidents Lubricants on the tires reduces the road grip.

- Remove lubricants from the tires using a suitable cleaning agent.



Warning

Danger of accidents Oil or grease on the brake discs reduces the braking effect.

- Always keep the brake discs free of oil and grease.
- Clean the brake discs with brake cleaner when necessary.



Note

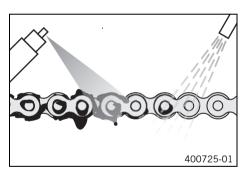
Environmental hazard Hazardous substances cause environmental damage.

 Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.



Info

The service life of the chain depends largely on its maintenance.



Preparatory work

- Raise the vehicle with the center stand. (p. 180)

Main work

- Rinse off loose dirt with a soft jet of water.
- Remove old grease residue with chain cleaner.

Chain cleaner (🕮 p. 328)

- After drying, apply chain spray.

Street chain spray (p. 329)

Finishing work

13.9 Checking the chain tension



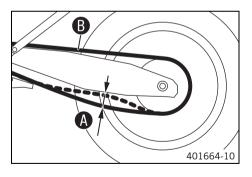
Warning

Danger of accidents
Incorrect chain tension damages components and results in accidents.

If the chain is tensioned too much, the chain, engine sprocket, rear sprocket, transmission and rear wheel bearings wear more quickly. Some components may break if overloaded.

If the chain is too loose, the chain may fall off the engine sprocket or the rear sprocket. As a result, the rear wheel locks or the engine will be damaged.

- Check the chain tension regularly.
- Set the chain tension in accordance with the specification.



Preparatory work

- Raise the vehicle with the center stand. (p. 180)

Main work

- Shift the transmission into neutral N
- In the area in front of the chain guide, push the chain up and determine the chain tension \mathbf{A} .



Info

Top chain section **(B)** must be taut. Chain wear is not always even, so you should repeat this measurement at different chain positions.

Chain tension	40 45 mm (1.57
	1.77 in)

- If the chain tension does not meet the specification:
 - Adjust the chain tension. (p. 188)

Finishing work

- Remove the vehicle from the center stand. (p. 181)

13.10 Adjusting the chain tension



Warning

Danger of accidents
Incorrect chain tension damages components and results in accidents.

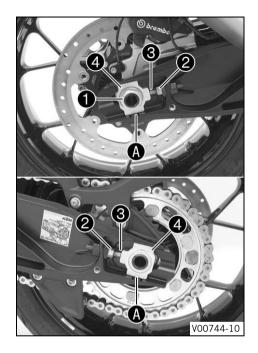
If the chain is tensioned too much, the chain, engine sprocket, rear sprocket, transmission and rear wheel bearings wear more quickly. Some components may break if overloaded.

If the chain is too loose, the chain may fall off the engine sprocket or the rear sprocket. As a result, the rear wheel locks or the engine will be damaged.

- Check the chain tension regularly.
- Set the chain tension in accordance with the specification.

Preparatory work

- Check the chain tension. (
 p. 187)



Main work

- Loosen nut 1.
- Loosen nuts 2.
- Adjust the chain tension by turning adjusting screws 3 left and right.

Guideline

Chain tension	40 45 mm (1.57	
	1.77 in)	
Turn the adjusting screws 3 on the left and right so that		
the markings on the left and right chain adjusters 4 are in		

the markings on the left and right so that the markings on the left and right chain adjusters 4 are in the same position relative to the reference marks A. The rear wheel is then correctly aligned.



Info

The top chain section must be taut. Chain wear is not always even, so you should check the setting at different chain positions.

- Tighten nuts 2.
- Make sure that chain adjusters 4 are fitted correctly on adjusting screws 6.
- Tighten nut 1.

Guideline

Nut, rear wheel	M25x1.5	90 Nm (66.4 lbf ft)
spindle		Thread greased



Info

Chain adjusters 4 can be turned by 180°.

Finishing work

- Remove the vehicle from the center stand. (p. 181)

13.11 Checking the chain, rear sprocket, and engine sprocket

Preparatory work

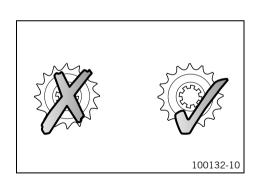
Main work

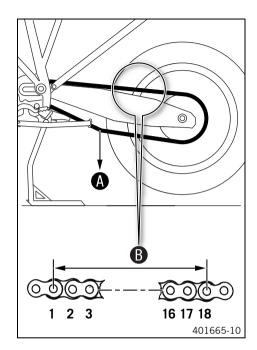
- Check the chain, rear sprocket, and engine sprocket for wear.
 - » If the chain, rear sprocket or engine sprocket is worn:
 - Change the drivetrain kit.



Info

The engine sprocket, rear sprocket, and chain should always be replaced together.





- Shift the transmission into neutral ■.
- Pull on the lower chain section with the specified weight A.
 Guideline

Weight, chain we	ear measure-	15 kg (33 lb.)	
ment			

- Measure distance **(B)** of 18 chain rollers in the upper chain section.



Info

Chain wear is not always even, so you should repeat this measurement at different chain positions.

Maximum distance B from	272 mm (10.71 in)
18 chain rollers at the	
longest chain section	

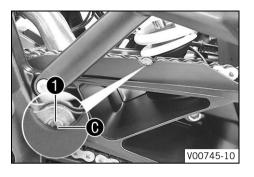
- » If distance **(B)** is greater than the specified measurement:
 - Change the drivetrain kit.



Info

When a new chain is mounted, the rear sprocket and engine sprocket should also be changed. New chains wear out faster on old, worn sprockets.

For safety reasons, the chain has no chain joint.



Check the chain sliding guard for wear at the recess.



Info

When the chain sliding guard is new, the rivets 1 are half visible at the bottom edge 0 of the recess.

- When the rivets of the chain are no longer visible at the bottom edge of the recess of the chain sliding guard:
 - Change the chain sliding guard.
- Check that the chain sliding guard is firmly seated.
 - » If the chain sliding guard is loose:
 - Tighten the screws on the chain sliding guard.
 Guideline

Screw, chain slid-	M5	5 Nm (3.7 lbf ft)
ing guard		



- » If the chain guide is worn:
 - Change the chain guide.
- Check that the chain guide is firmly seated.
 - » If the chain guide is loose:
 - Tighten the screws on the chain guide.



Guideline

Screw, chain	M6	5 Nm (3.7 lbf ft)
guide		

Finishing work

- Remove the vehicle from the center stand. (p. 181)

13.12 Checking/correcting the fluid level of the hydraulic clutch



Warning

Skin irritation Brake fluid causes skin irritation.

- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes or clothing.
- Consult a doctor immediately if brake fluid has been swallowed.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.



Note

Environmental hazard Hazardous substances cause environmental damage.

 Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.



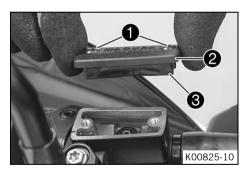
Info

The fluid level rises with increasing wear of the clutch facing discs.

Never use DOT 5 brake fluid. It is silicone-based and purple in color. Oil seals and clutch lines are not designed for DOT 5 brake fluid.

Avoid contact between brake fluid and painted parts. Brake fluid attacks paint.

Only use clean brake fluid from a sealed container.



- Move the clutch fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws 1.
- Remove cover **2** with membrane **3**.
- Check the fluid level.

Fluid level below container	4 mm (0.16 in)
rim	

- If the fluid level does not meet specifications:
 - Correct the fluid level of the hydraulic clutch.

Brake fluid DOT 4 / DOT 5.1 (p. 324)

 Position the cover with the membrane. Mount and tighten the screws.



Info

Clean up overflowed or spilled brake fluid immediately with water.

•

13.13 Checking steering head bearing play



Warning

Danger of accidents Incorrect steering head bearing play impairs the handling characteristic and damages components.

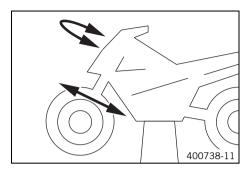
 Correct incorrect steering head bearing play immediately. (Your authorized KTM workshop will be glad to help.)



Info

If the vehicle is operated for a lengthy period with play in the steering head bearing, the bearings and the bearing seats in the frame can become damaged over time.

Preparatory work



Main work

- Place a load on the rear of the vehicle.
 - ✓ The front wheel is not in contact with the ground.
- Move the handlebar to the straight-ahead position. Move the fork legs back and forth in the direction of travel.

Play should not be detectable on the steering head bearing.

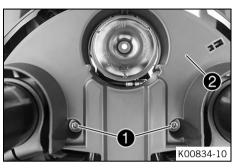
- » If there is detectable play:
 - Adjust steering head bearing play.
- Move the handlebar back and forth over the entire steering range.

It must be possible to move the handlebar easily over the entire steering range. There should be no detectable detent positions.

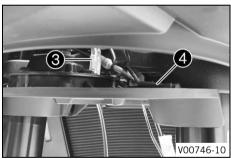
- » If detent positions are detected:
 - Adjust steering head bearing play.
 - Check the steering head bearing and adjust if necessary.

Finishing work

13.14 Removing the bottom triple clamp cover

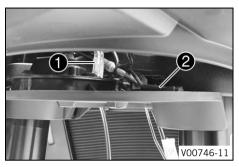


- Remove screws 1.
- Lower triple clamp cover 2 slightly.

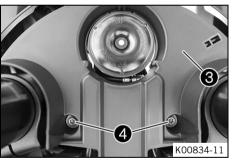


- Disconnect plugs **3** of the horn.
- Detach temperature sensor 4.
- Remove the triple clamp cover.

13.15 Installing the bottom triple clamp cover



- Plug in connectors 1 of the horn.
- Attach temperature sensor 2.



- Position the triple clamp cover 3.
- Mount and tighten screws 4.
 Guideline

Remaining screws,	M6	10 Nm (7.4 lbf ft)
chassis		

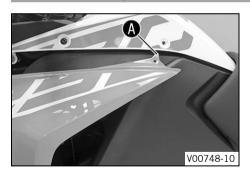
198

13.16 Removing the front side cover



- Remove screws 1.
- Remove side cover 2.
- Repeat these steps on the opposite side.

13.17 Installing the front side cover



Position the side cover in area **A** under the fuel tank cover.





- Attach side cover to bracket **3** using holding lug **4** and position on the fuel tank.



Mount and tighten screws **5**.
 Guideline

Screw, cover part	M5x12	3.5 Nm
		(2.58 lbf ft)

Repeat these steps on the opposite side.

13.18 Removing the mask spoiler 🔌

Preparatory work

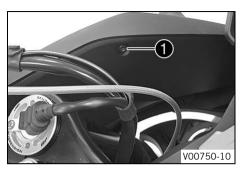
- Remove the passenger seat. (p. 182)
- Remove the front side cover. (p. 199)

200

- Remove the fuel tank cover. (p. 209)

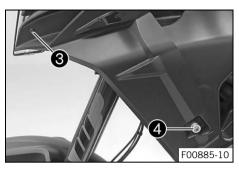
Main work

Remove screw 1.





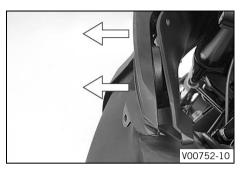
Remove screw 2.



- Remove screw 3.
- Remove screw 4 with the bushing.



Loosen holding lug 6 from the inside cover.

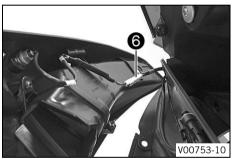


- Remove the mask spoiler laterally from the supports.



Info

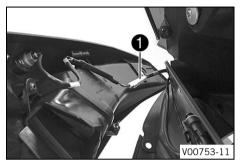
Pay attention to the turn signal cable.



- Disconnect plug-in connector **6**.
- Remove the mask spoiler with the turn signal.
- Repeat these steps on the opposite side.

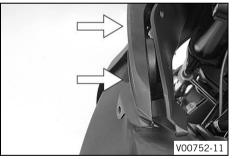
•

13.19 Installing the mask spoiler &



Main work

Join plug-in connector 1.

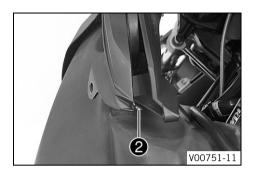


Position the mask spoiler and press laterally into the supports.

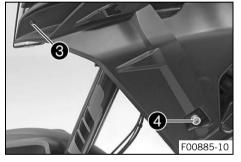


Info

Ensure that the turn signal cable is placed correctly.



- Position holding lug **2** in the drill hole.



Mount and tighten screw 3.
 Guideline

Screw, mask spoiler	M5x12	3.5 Nm
		(2.58 lbf ft)

Mount and tighten screw 4 with the bushing.
 Guideline

Screw, bushing	M6	4 Nm (3 lbf ft)



Mount and tighten screw 5.
 Guideline

Screw, mask spoiler	M5x12	3.5 Nm
		(2.58 lbf ft)



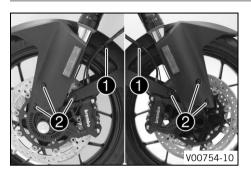
Mount and tighten screw **6**.
 Guideline

Screw, mask spoiler	M5x12	3.5 Nm
		(2.58 lbf ft)

Repeat these steps on the opposite side.

Finishing work

13.20 Removing front fender



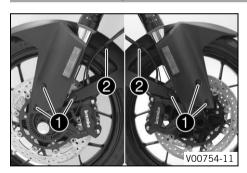
- Open holder and detach the brake lines and cable.
- Remove screws 2.
- Take the fender off to the front.



Info

Pay attention to the brake lines and the cable.

13.21 Installing front fender



Position the fender.



Info

Pay attention to the routing of the brake lines and the cable.

Mount and tighten screws ①.
 Guideline

Screw, fender	M5x12	3.5 Nm
		(2.58 lbf ft)

Insert the brake lines and cable in brackets 2 and close the holder

13.22 Cleaning the dust boots of the fork legs 🔌

Preparatory work

- Raise the vehicle with the center stand. (p. 180)

Main work

Push dust boots 1 of both fork legs downward.



Info

The dust boots remove dust and coarse dirt particles from the inside fork tubes. Over time, dirt can accumulate behind the dust boots. If this dirt is not removed, the oil seals behind can start to leak.



Warning

Danger of accidents Oil or grease on the brake discs reduces the braking effect.

- Always keep the brake discs free of oil and grease.
- Clean the brake discs with brake cleaner when necessary.

V00755-10

Universal oil spray (🕮 p. 329)

- Press dust boots 1 back into their installation position.
- Remove excess oil.

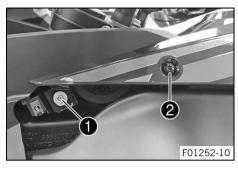
Finishing work

- Install front fender. (p. 207)
- Remove the vehicle from the center stand. (
 p. 181)

13.23 Removing the fuel tank cover

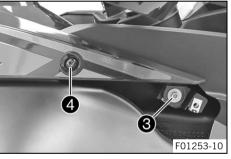
Preparatory work

- Remove the passenger seat. (p. 182)
- Remove the front side cover. (p. 199)

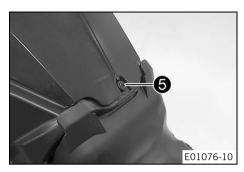


Main work

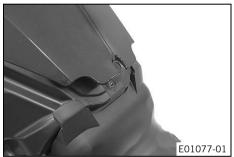
- Remove screw 1.
- Remove screw 2.



- Remove screw 3.
- Remove screw 4.



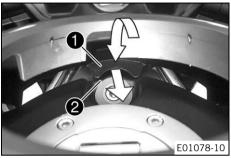
Remove screw **6**.

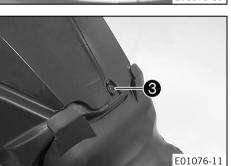


 Raise the fuel tank cover at the rear and take it off in a forward direction.

4

13.24 Installing the fuel tank cover





Main work

Position the fuel tank cover.



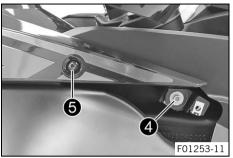


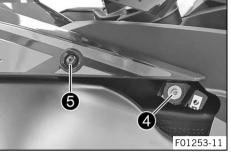
Info

Pay attention to the sealing lip and the bleeder hose.

Mount and tighten screw 3.
 Guideline

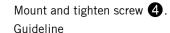
Screw, cover part	M5x12	3.5 Nm
		(2.58 lbf ft)







F01252-11



Mount and tighten screw **5**.

Guideline

Screw, cover part	M5x12	3.5 Nm
		(2.58 lbf ft)

Mount and tighten screw **6**.

Guideline

Screw, cover part	M6	6 Nm (4.4 lbf ft)
-------------------	----	-------------------

Mount and tighten screw 7.

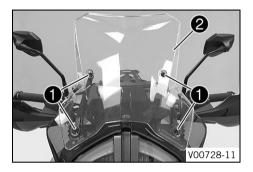
Guideline

Screw, cover part	M5x12	3.5 Nm
		(2.58 lbf ft)

Finishing work

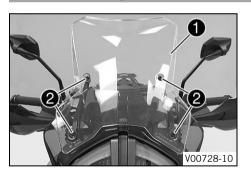
- Install the front side cover. (p. 199)
- Mount the front rider's seat. (p. 184)
- Mount the passenger seat. (p. 182)

13.25 Removing the windshield



- Remove screws 1 with rubber bushing and windshield 2.

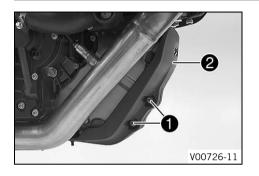
13.26 Installing the windshield



- Position windshield 1.
- Mount and tighten screws 2 with the rubber bushings.
 Guideline

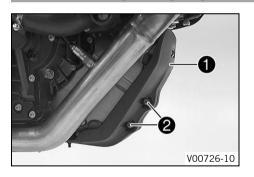
Screw, wind shield	M5	3.5 Nm
		(2.58 lbf ft)

13.27 Removing the engine guard



Remove screws with bushings and engine guard .

Installing the engine guard 13.28

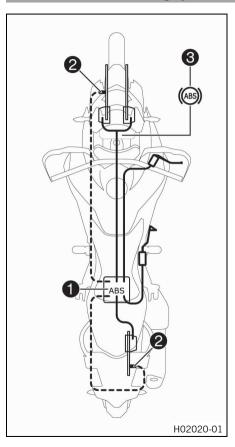


Position engine guard 1, mount screws 2 with bushings and tighten. Guideline

Screw, engine guard М6 10 Nm (7.4 lbf ft)

14 BRAKE SYSTEM

14.1 Anti-lock braking system (ABS)



The ABS module ①, consisting of a hydraulic unit, brake electronics control unit, and a return pump, is located under the seat. One wheel speed sensor ② is located in each case on the front and the rear wheel



Warning

Danger of accidents Changes to the vehicle impair the function of the ABS.

- Only allow the rear wheel to spin with the front brake applied away from public road traffic if the ABS is switched off.
- Do not make any changes to the suspension travel.
- Only use spare parts on the brake system which have been approved and recommended by KTM.
- Only use tires/wheels approved by KTM with the corresponding speed index.
- Maintain the specified tire pressure.
- Service work and repairs must be performed professionally. (Your authorized KTM workshop will be glad to help.)

<u>ABS</u> is a safety system that prevents locking of the wheels when driving straight ahead without the influence of lateral forces.

Warning

Danger of accidents Driving aids can only prevent a rollover within the physical limitations.

It is not always possible to compensate for extreme riding situations, for example with luggage loaded with a high center of gravity, varying road surfaces, steep descents or full braking without disengaging the gear.

 Adapt your riding style to the road conditions and your driving ability.

ABS has two operating modes: the **Road** and **Offroad**ABS modes. In the **Road** ABS mode, the brakes are also applied to the rear wheel when the front brake is applied. ABS can intervene on both wheels.

In the **Offroad** ABS mode, the front brake slows the front wheel. The rear brake slows the rear wheel. There is no ABS intervention on the rear wheel. The ABS warning lamp **3** flashes slowly to remind you that the **Offroad** ABS mode is enabled.



Info

In the **Offroad** ABS mode, the rear wheel may lock and there is a risk of falling.

The ABS operates with two independent brake circuits (front and rear brakes). When the brake electronics control unit detects a

14 BRAKE SYSTEM

locking tendency in a wheel, ABS begins regulating the brake pressure. The control function causes a slight pulsing of the hand and foot brake levers.

The ABS warning lamp 3 must light up after the ignition is switched on and go out after starting off. If it does not go out after starting off or if it is lit while riding, this indicates a fault in the ABS. In this case, the ABS is no longer enabled and the wheels may lock during braking. The brake system itself stays functional; only ABS control is not available.

The ABS warning lamp may also light up if the rotating speeds of the front and rear wheels differ greatly under extreme riding conditions, for example when making "wheelies" or if the rear wheel spins. This causes the ABS to switch off.

To reactivate the ABS, stop the vehicle and switch off the ignition. The ABS is reactivated when the vehicle is switched on again. The ABS warning lamp goes out after starting off.

MSC

The **MSC** is a supplementary function for the ABS that can prevent blocking and slipping of the wheels during braking when the vehicle is inclined (riding in curves) within the physical limitations. By means of the 5-D sensor, the ABS control is now dependent on the inclination and pitch angle.

ABS control that is dependent on the inclination and pitch angle improves the riding stability and braking effect in all riding situations. The **MSC** also reduces the righting moment during hard braking in curves. This prevents the motorcycle from righting itself from an inclined angle and moving along a larger curve radius.

Due to the additional electronic control of the brake force distribution between the two wheels, the braking force is optimally distributed and the motorcycle is additionally stabilized.



Info

The MSC is only active in Road ABS mode.

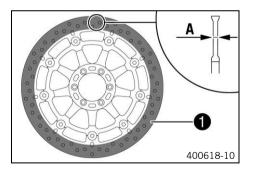
14.2 Checking the brake discs



Warning

Danger of accidents Worn-out brake discs reduce the braking effect.

 Make sure that worn-out brake discs are replaced immediately. (Your authorized KTM workshop will be glad to help.)



- Check the front and rear brake disc thickness at multiple points for the dimension **A**.



Info

Wear will reduce the thickness of the brake disc at contact surface 1 of the brake linings.

Brake discs - wear limit	
front	4 mm (0.16 in)
rear	4.5 mm (0.177 in)

14 BRAKE SYSTEM

- » If the brake disc thickness is less than the specified value.
 - Change the front brake discs.
 - Change the rear brake disc.
- Check the front and rear brake discs for damage, cracking, and deformation.
 - » If the brake disc exhibits damage, cracking, or deformation:
 - Change the front brake discs.
 - Change the rear brake disc.

14.3 Checking the front brake fluid level



Warning

Danger of accidents An insufficient brake fluid level will cause the brake system to fail.

If the brake fluid level drops below the **MIN** marking, the brake system is leaking or the brake linings are worn down.

- Check the brake system and do not continue riding until the problem is eliminated. (Your authorized KTM workshop will be glad to help.)

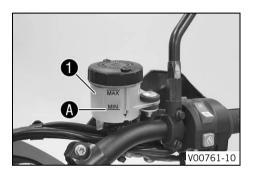
220



Warning

Danger of accidents Old brake fluid reduces the braking effect.

 Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule. (Your authorized KTM workshop will be glad to help.)



- Move the brake reservoir mounted on the handlebar to a horizontal position.
- Check the brake fluid level in brake fluid reservoir 1.
 - » If the brake fluid level has dropped below MIN marking A:
 - Add front brake fluid. ◀ (IP p. 221)

14.4 Adding front brake fluid 🔌



Warning

Danger of accidents An insufficient brake fluid level will cause the brake system to fail.

If the brake fluid level drops below the **MIN** marking, the brake system is leaking or the brake linings are worn down.

- Check the brake system and do not continue riding until the problem is eliminated. (Your authorized KTM workshop will be glad to help.)

14 BRAKE SYSTEM



Warning

Skin irritation Brake fluid causes skin irritation.

- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes or clothing.
- Consult a doctor immediately if brake fluid has been swallowed.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.



Warning

Danger of accidents Old brake fluid reduces the braking effect.

 Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule. (Your authorized KTM workshop will be glad to help.)



Note

Environmental hazard Hazardous substances cause environmental damage.

 Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.

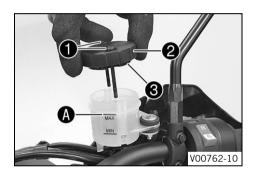


Info

Never use DOT 5 brake fluid. It is silicone-based and purple in color. Oil seals and brake lines are not designed for DOT 5 brake fluid.

Avoid contact between brake fluid and painted parts. Brake fluid attacks paint.

Only use clean brake fluid from a sealed container.



Preparatory work

Main work

- Move the brake reservoir mounted on the handlebar to a horizontal position.
- Remove screws 1.
- Take off cover 2 with membrane 3.
- Add brake fluid up to MAX marking A.

Brake fluid DOT 4 / DOT 5.1 (p. 324)

- Position cover **2** with membrane **3**.
- Mount and tighten screws 1.



Info

Clean up overflowed or spilled brake fluid immediately with water.

14 BRAKE SYSTEM

14.5 Checking the front brake linings



Warning

Danger of accidents Worn-out brake linings reduce the braking effect.

 Ensure that worn-out brake linings are replaced immediately. (Your authorized KTM workshop will be glad to help.)

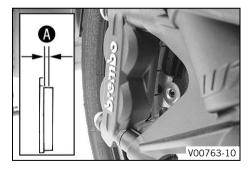


Warning

Danger of accidents Damaged brake discs reduce the braking effect.

If the brake linings are not changed in time, the brake lining carriers grind against the brake disc. As a consequence, the braking effect is greatly reduced and the brake discs are destroyed.

Check the brake linings regularly.



 Check all brake linings on both brake calipers to ensure they have the minimum thickness (A).

Minimum thickness (A

≥ 1 mm (≥ 0.04 in)

- » If the minimum thickness is less than specified:
 - Change the front brake linings.
- Check all brake linings on both brake calipers for damage and cracking.
 - » If there is damage or cracking:
 - Change the front brake linings. 🔌

14.6 Checking the rear brake fluid level



Warning

Danger of accidents
An insufficient brake fluid level will cause the brake system to fail.

If the brake fluid level drops below the **MIN** marking, the brake system is leaking or the brake linings are worn down.

 Check the brake system and do not continue riding until the problem is eliminated. (Your authorized KTM workshop will be glad to help.)



Warning

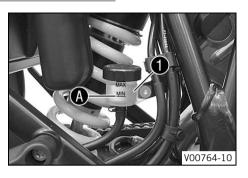
Danger of accidents Old brake fluid reduces the braking effect.

 Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule. (Your authorized KTM workshop will be glad to help.)

Preparatory work

- Raise the vehicle with the center stand. (p. 180)

14 BRAKE SYSTEM



Main work

- Check the brake fluid level in brake fluid reservoir 1.
 - If the fluid level reaches the MIN marking (A):
 - Add rear brake fluid. 🔌 🕮 p. 226)

14.7 Adding rear brake fluid 🔧



Warning

Danger of accidents An insufficient brake fluid level will cause the brake system to fail.

If the brake fluid level drops below the **MIN** marking, the brake system is leaking or the brake linings are worn down.

 Check the brake system and do not continue riding until the problem is eliminated. (Your authorized KTM workshop will be glad to help.)



Warning

Skin irritation Brake fluid causes skin irritation.

- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes or clothing.
- Consult a doctor immediately if brake fluid has been swallowed.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.



Warning

Danger of accidents Old brake fluid reduces the braking effect.

 Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule. (Your authorized KTM workshop will be glad to help.)



Note

Environmental hazard Hazardous substances cause environmental damage.

 Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.

14 BRAKE SYSTEM



Info

Never use DOT 5 brake fluid. It is silicone-based and purple in color. Oil seals and brake lines are not designed for DOT 5 brake fluid.

Avoid contact between brake fluid and painted parts. Brake fluid attacks paint.

Only use clean brake fluid from a sealed container.

V00765-10



Preparatory work

- Raise the vehicle with the center stand. (p. 180)

Main work

- Remove screw cap with membrane 2.
- Add brake fluid up to MAX marking A.

Brake fluid DOT 4 / DOT 5.1 (p. 324)

- Mount and tighten screw cap $\mathbf{0}$ with membrane $\mathbf{2}$.



Info

Clean up overflowed or spilled brake fluid immediately with water.

_

14.8 Checking the rear brake linings



Warning

Danger of accidents Worn-out brake linings reduce the braking effect.

Ensure that worn-out brake linings are replaced immediately. (Your authorized KTM workshop will be glad to help.)

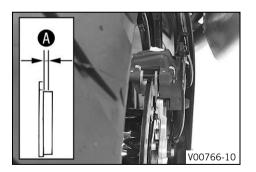


Warning

Danger of accidents Damaged brake discs reduce the braking effect.

If the brake linings are not changed in time, the brake lining carriers grind against the brake disc. As a consequence, the braking effect is greatly reduced and the brake discs are destroyed.

Check the brake linings regularly.



Check the brake linings for minimum thickness **A**.



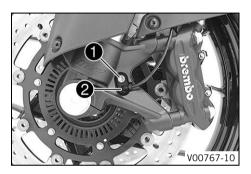
Minimum thickness A

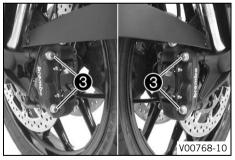


≥ 1 mm (≥ 0.04 in)

- If the minimum thickness is less than specified:
 - Change the rear brake linings.
- Check the brake linings for damage and cracking.
 - If there is wear or tearing:
 - Change the rear brake linings.

15.1 Removing the front wheel 🔌





Preparatory work

Raise the vehicle with the center stand. (
 p. 180)

Main work

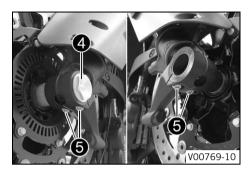
- Place a load on the rear of the vehicle.
 - ✓ The front wheel is not in contact with the ground.
- Remove screw 1 and pull wheel speed sensor 2 out of the hole.

- Remove screws 3 from both brake calipers.
- Press back the brake linings by slightly tilting the brake calipers laterally on the brake disc.
- Pull the brake calipers carefully back from the brake discs and hang to the side loosely.



Info

Do not operate the hand brake lever if the brake calipers have been removed.



- Loosen screw 4 by several rotations.
 - Loosen screws **5**.
- Press on screw 4 to push the wheel spindle out of the axle clamp.
- Remove screw 4.



Warning

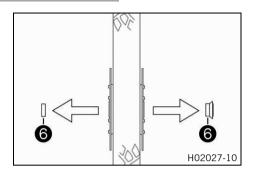
Danger of accidents Damaged brake discs reduce the braking effect.

- Always lay the wheel down in such a way that the brake discs are not damaged.
- Hold the front wheel and remove the wheel spindle. Take the front wheel out of the fork.



Info

Do not actuate the hand brake lever when the front wheel is removed.



- Remove spacers **6**.

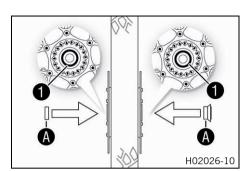
15.2 Installing the front wheel

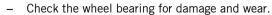


Warning

Danger of accidents Oil or grease on the brake discs reduces the braking effect.

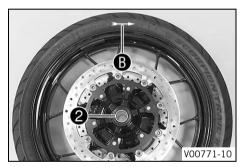
- Always keep the brake discs free of oil and grease.
- Clean the brake discs with brake cleaner when necessary.





- » If the wheel bearing is damaged or worn:
 - Change front wheel bearing.
- Clean and grease shaft seal rings and contact surfaces of the spacers.

Long-life grease (p. 328)



 Insert the narrow spacer 2 on the right in the direction of travel.

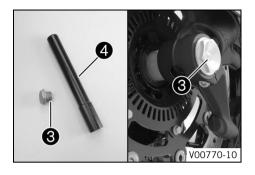


Info

Arrow **(B)** indicates the direction of travel of the front wheel.

The ABS sensor wheel is on the left viewed in the direction of travel.

Insert the wide spacer on the left in the direction of travel.





Warning

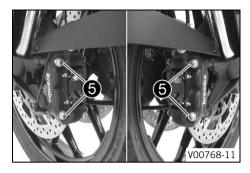
Danger of accidents Oil or grease on the brake discs reduces the braking effect.

- Always keep the brake discs free of oil and grease.
- Clean the brake discs with brake cleaner when necessary.
- Clean and grease screw 3 and wheel spindle 4.

Long-life grease (p. 328)

- Jack up the front wheel into the fork, position it, and insert the wheel spindle.
- Mount and tighten screw 3.
 Guideline

Screw, front	M25x1.5	45 Nm (33.2 lbf ft)
wheel spindle		Thread greased



Position the brake calipers.

✓ The brake linings are correctly positioned.

- Mount screws 6 on both brake calipers but do not tighten yet.
- Operate the hand brake lever repeatedly until the brake linings are in contact with the brake disc and there is a pressure point. Fix the hand brake lever in the activated position.
 - ✓ The brake calipers straighten.
- Tighten screws **6** on both brake calipers.

Guideline

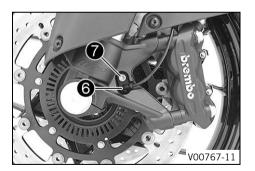
Screw, front	M10	45 Nm (33.2 lbf ft)
brake caliper		Loctite®243™

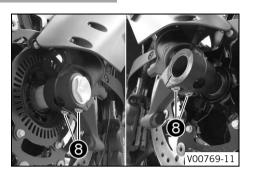


- Position wheel speed sensor **6** in the hole.
- Mount and tighten screw 7.

Guideline

Remaining screws,	M6	10 Nm (7.4 lbf ft)
chassis		





- Operate the front brake and compress the fork a few times firmly.
 - ✓ The fork legs straighten.
- Tighten screws 8.

Guideline

Screw, fork stub	M8	15 Nm (11.1 lbf ft)
------------------	----	---------------------

•

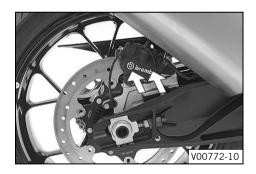
15.3 Removing the rear wheel

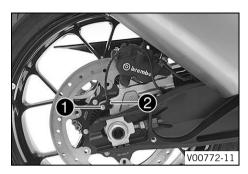


- Raise the vehicle with the center stand. (p. 180)

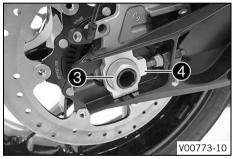
Main work

 Press the brake caliper onto the brake disc by hand in order to push back the brake pistons.

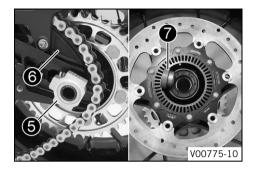




Remove screw 1 and pull wheel speed sensor 2 out of the hole.



Remove nut 3. Remove chain adjuster 4.



- Pull out wheel spindle 6 far enough to allow the rear wheel to be pushed forward.
- Push the rear wheel forward as far as possible. Take the chain off the rear sprocket and place it on chain sprocket guard 6.



Warning

Danger of accidents Reduced braking effect caused by damaged brake discs.

- Always lay the wheel down in such a way that the brake discs are not damaged.
- Holding the rear wheel, withdraw the wheel spindle. Take the rear wheel out of the link fork.



Info

Do not operate the foot brake when the rear wheel is removed.

Remove spacer 7.

15.4 Installing the rear wheel



Warning

Danger of accidents Oil or grease on the brake discs reduces the braking effect.

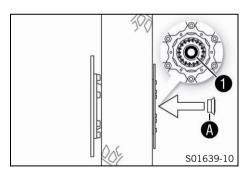
- Always keep the brake discs free of oil and grease.
- Clean the brake discs with brake cleaner when necessary.



Warning

Danger of accidents There is no braking effect to start with at the rear brake after installing the rear wheel.

Actuate the foot brake several times before going on a ride until you can feel a firm pressure point.



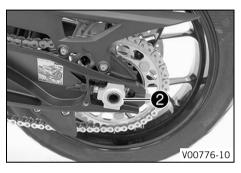
- Check the rear hub damping rubber pieces. 4 (

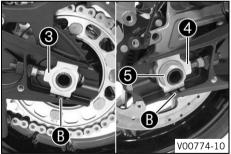
 p. 242)
- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Change the rear wheel bearing.
- Clean and grease shaft seal ring and contact surface of the spacer.

Long-life grease (p. 328)

- Insert the spacer.
- Clean and grease the thread of the wheel spindle and nut.

Long-life grease (p. 328)





- Mount the damping rubber pieces and rear sprocket carrier on the rear wheel.
- Place the rear wheel in the link fork and engage the brake disc in the brake caliper.
- Mount wheel spindle **2** but do not push it in all the way.
- Push the rear wheel forward as far as possible and lay the chain on the rear sprocket.

 Push the wheel spindle in all the way and mount chain adjuster 4 and nut 5.



Info

Mount chain adjusters **3** and **4** in the same position.

 Make sure that the chain adjusters are fitted correctly on the adjusting screws.

Guideline

In order for the rear wheel to be correctly aligned, the markings on the left and right chain adjusters must be in the same position relative to reference markings **B**.

- Tighten nut **6**.

Guideline

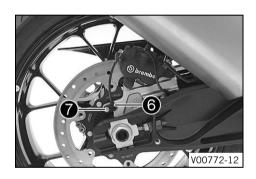
Nut, rear wheel	M25x1.5	90 Nm (66.4 lbf ft)
spindle		Thread greased

- Position wheel speed sensor 6 in the hole.
- Mount and tighten screw 7.

Guideline

Remaining screws,	M6	10 Nm (7.4 lbf ft)
chassis		

 Operate the foot brake lever repeatedly until the brake linings are in contact with the brake disc and there is a pressure point.

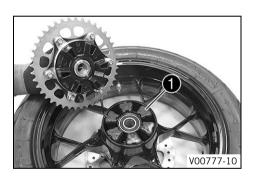


15.5 Checking the rear hub damping rubber pieces 🔌



Info

The engine power is transmitted from the rear sprocket to the rear wheel via the 6 damping rubber pieces. The damping rubber pieces wear out during operation. If the damping rubber pieces are not changed in time, the rear sprocket carrier and the rear hub will be damaged.



Preparatory work

- Raise the vehicle with the center stand. (p. 180)
- Remove the rear wheel. 🔌 (🕮 p. 236)

Main work

- Check the damping rubber pieces
 of the rear hub for damage and wear.
 - » If the damping rubber pieces of the rear hub are damaged or worn:
 - Change all the damping rubber pieces of the rear hub.



- Lay the rear wheel on a workbench with the rear sprocket facing upward and insert the wheel spindle in the hub.
- Check the rear sprocket play (A).



Info

Measure the play on the outside of the rear sprocket.

Play of damping rubber	≤ 5 mm (≤ 0.2 in)
pieces on rear wheel	

- » If clearance **A** is larger than the specified value:
 - Change all the damping rubber pieces of the rear hub.

Finishing work

Install the rear wheel. ◀ (ՀՀ) p. 239)

15.6 Checking the tire condition



Warning

Danger of accidents If a tire bursts while riding, the vehicle becomes uncontrollable.

- Ensure that damaged or worn tires are replaced immediately. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of crashing Different tire tread patterns on the front and rear wheel impair the handling characteristic.

Different tire tread patterns can make the vehicle significantly more difficult to control.

- Make sure that only tires with a similar tire tread pattern are fitted to the front and rear wheel.



Warning

Danger of accidents Non-approved or non-recommended tires and wheels impact the handling characteristic.

Only use tires/wheels approved by KTM with the corresponding speed index.



Warning

Danger of accidents New tires have reduced road grip.

The contact surface on new tires is not yet roughened.

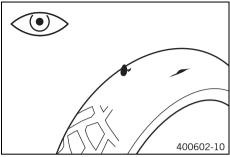
Run in new tires with moderate riding at alternating angles.
 Running-in phase
 200 km (124 mi)

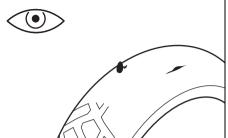


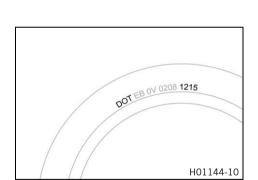
Info

Tire type, tire condition, and tire pressure influence the braking and handling characteristics of the vehicle.

Worn tires are particularly unfavorable on wet surfaces.







- Check the front and rear tires for cuts, run-in objects, and other damage.
 - If the tires have cuts, run-in objects, or other damage:
 - Change the tires. 🔌
- Check the tread depth.



Info

Adhere to the legally required minimum tread depth.

Minimum tread depth	≥ 2 mm (≥ 0.08 in)

- If the tread depth is less than the minimum tread depth:
 - Change the tires.
- Check the tire age.



Info

The tire date of manufacture is usually contained in the tire label and is indicated by the last four digits of the **DOT** number. The first two digits indicate the week of manufacture and the last two digits the year of manufacture.

KTM recommends that the tires be changed after 5 years at the latest, regardless of the actual state of wear.

If the tires are more than 5 years old:

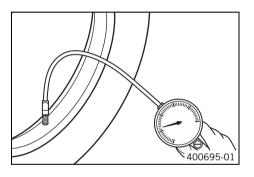
Change the tires.

15.7 Checking tire pressure



Info

Low tire pressure leads to abnormal wear and overheating of the tire. Correct tire pressure ensures optimal riding comfort and maximum tire service life.

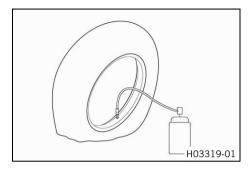


- Remove the protection cap.
- Check the tire pressure when the tires are cold.

Tire pressure, solo / with passenger / full payload	
front: with cold tires	2.4 bar (35 psi)
rear: with cold tires	2.9 bar (42 psi)

- If the tire pressure does not meet specifications:
 - Correct the tire pressure.
- Mount the protection cap.

15.8 Using tire repair spray





Warning

Danger of accidents Incorrect use of tire repair spray will result in the repaired tire losing pressure.

Tire repair spray cannot be used for all types of damage.

- Observe the instructions and specifications of the manufacturer of the tire repair spray.
- After repairing a tire with tire repair spray, ride slowly and carefully.
- Ride no further than to the nearest workshop and have the tire changed.

Tire repair spray should only be used in an emergency. We recommend transporting the broken down vehicle to the nearest workshop instead of using tire repair spray.

(Super Adventure S EU/CN)

Note

Material damage Tire repair spray damages the tire pressure sensor.

 Note that after using tire repair spray, the tire pressure sensor may need to be replaced.

16 ELECTRICAL SYSTEM

16.1 Daytime running light (DRL)





Warning

Danger of accidents When visibility is poor, the daytime running light is not a substitute for the low beam.

Automatic switching between the daytime running light and low beam may only be partially available when visibility is significantly impaired due to fog, snow or rain.

- Ensure that the appropriate type of lighting is always selected.
- If necessary switch off the daytime running lights using the menu before going on a ride or when stopped so that the low beam is switched on permanently.
- Note the legal regulations regarding the daytime running light.

The daytime running (<u>DRL</u>)/position light is integrated in the main headlight. The daytime running light is brighter than the position light.

The daytime running light must only be switched on when visibility conditions are good.

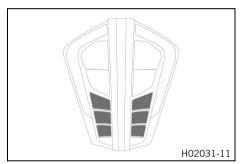
This is controlled by the ambient light sensor in the combination instrument. When visibility conditions are good, the low beam

with position light is switched off and the daytime running light is switched on.

When the daytime running light is switched off, the low beam with position light lights up.

On high beam or headlight flasher, the daytime running light changes automatically to the position light.

16.2 Cornering light



The cornering light is integrated into the main headlight.



Info

To activate the cornering light, the low beam must be switched on and the daytime running light switched off.

The cornering light is activated.

Lean angle for the lower LED	≥ 12°
Lean angle for the middle LED	≥ 20°
Lean angle for the upper LED	≥ 28°
Speed	≥ 6 km/h (≥ 3.7 mph)

16.3 Removing the 12-V battery 3



Warning

Risk of injury Battery acid and battery gases cause serious chemical burns.

- Keep 12 V batteries out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Avoid contact with battery acid and battery gases.
- Keep sparks or open flames away from the 12 V battery.
- Only charge 12 V batteries in well-ventilated rooms.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes with water for at least 15 minutes and consult a doctor immediately if battery acid and battery gases get into the eyes.



Caution

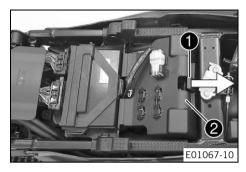
Danger of accidents Electronic components and safety devices will be damaged if the 12-V battery is discharged or missing.

Never operate the vehicle with a discharged 12-V battery or without a 12-V battery.

Preparatory work

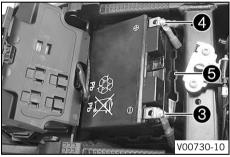
- Switch off ignition to do this briefly press the Race-on button (maximum of 1 second) with the ignition switched on.

16



Main work

- Pull locking mechanism 1 in the direction of the arrow.
- Fold open cover **2**.



- Disconnect both negative cables 3 from the 12-V battery.
- Disconnect both positive cables 4 from the 12-V battery.
- Take the 12-V battery and battery case **6** out of the battery compartment.

16.4 Installing the 12-V battery



Warning

Risk of injury Battery acid and battery gases cause serious chemical burns.

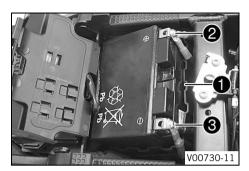
- Keep 12 V batteries out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Avoid contact with battery acid and battery gases.
- Keep sparks or open flames away from the 12 V battery.
- Only charge 12 V batteries in well-ventilated rooms.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes with water for at least 15 minutes and consult a doctor immediately if battery acid and battery gases get into the eyes.



Caution

Danger of accidents Electronic components and safety devices will be damaged if the 12-V battery is discharged or missing.

Never operate the vehicle with a discharged 12-V battery or without a 12-V battery.



Main work

Position the 12-V battery in battery case 1.

Guideline

The even side of the battery case must be opposite the poles.

- Position the 12-V battery with the battery case in the battery compartment.
- Position both positive cables 2 and mount and tighten the screw.

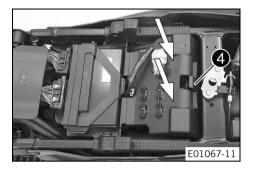
Guideline

Screw, battery termi-	M6	4.5 Nm
nal		(3.32 lbf ft)

- Position the negative cable **3** and mount and tighten the screw.

Guideline

Screw, battery termi-	M6	4.5 Nm
nal		(3.32 lbf ft)



- Close cover 4 and gently push down.
 - ✓ The cover engages with an audible click.

Finishing work

- Mount the front rider's seat. (
 p. 184)
- Mount the passenger seat. (Q p. 182)
- Set the time and date.

•

16.5 Charging the 12-V battery



Warning

Risk of injury Battery acid and battery gases cause serious chemical burns.

- Keep 12 V batteries out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Avoid contact with battery acid and battery gases.
- Keep sparks or open flames away from the 12 V battery.
- Only charge 12 V batteries in well-ventilated rooms.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes with water for at least 15 minutes and consult a doctor immediately if battery acid and battery gases get into the eyes.



Note

Environmental hazard 12 V batteries contain environmentally hazardous materials.

- Do not dispose of 12 V batteries as household waste.
- Dispose of 12 V batteries at a collection point for used batteries.



Note

Environmental hazard Hazardous substances cause environmental damage.

 Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.



Info

Even if there is no load on the 12-V battery, it discharges steadily each day.

The charging level and the method of charging are very important for the service life of the 12-V battery. Rapid recharging with a high charging current shortens the service life of the battery.

If the charging current, charging voltage, and charging time are exceeded, electrolyte escapes through the safety valves. This reduces the capacity of the 12-V battery.

If the 12-V battery is depleted from starting the vehicle repeatedly, the battery must be charged immediately.

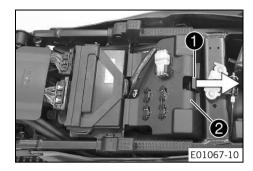
If the 12-V battery is left in a discharged state for an extended period, it will become deeply discharged and sulfating occurs, destroying the battery.

The 12-V battery is maintenance-free. The acid level does not have to be checked.

If the 12-V battery is not charged by the KTM battery charger, the 12-V battery must be removed for charging. Otherwise, overvoltage may damage electronic components. Charge the 12-V battery according to the instructions on the battery housing.

Preparatory work

- Switch off ignition to do this briefly press the Race-on button (§) (maximum of 1 second) with the ignition switched on.



Main work

- Pull locking mechanism 1 in the direction of the arrow.
- Fold open cover **2**.



 Disconnect both negative cables 3 of the 12-V battery to avoid damaging the onboard electronics.



 Connect the battery charger to the 12-V battery. Switch on the battery charger.

Battery charger (58429074000)



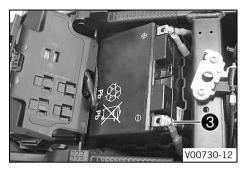
Info

You can also use the battery charger to test the opencircuit voltage and starting ability of the 12-V battery, and to test the alternator. In addition, you cannot overcharge the 12-V battery with this device. Charge the 12-V battery to a maximum of 10 % of the capacity specified on the battery housing.

 Switch off the battery charger after charging and disconnect from the 12-V battery.

Guideline

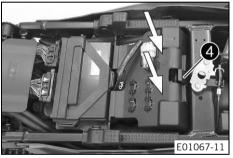
The charging current, charging voltage, and charging time must not be exceeded.		
Recharge the 12-V battery regularly when the motorcycle is not being used	3 months	



Connect both negative cables 3 to the 12-V battery.

Guideline

Screw, battery termi-	M6	4.5 Nm
nal		(3.32 lbf ft)



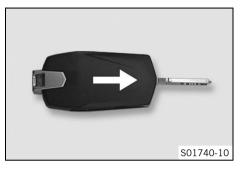
- Close cover 4 and gently push down.
 - ✓ The cover engages with an audible click.

Finishing work

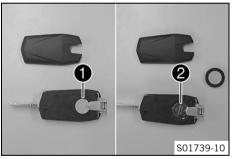
- Set the time and date.

4

16.6 Changing the Race-on key battery



- Fold out the key bit of the Race-on key.
- Push the lower half of the Race-on key in the direction of the arrow and take off.



- Remove battery cover 1.
- Remove the Race-on key battery 2.
- Insert a new Race-on key battery with the label facing upward.

Race-on key battery (CR 2032) (@ p. 312)

- Mount battery cover 1.



 Fit lower half of the Race-on key and snap into place in the direction of the arrow.

16.7 Changing the main fuse



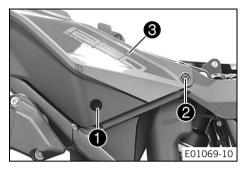
Warning

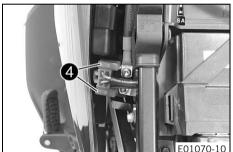
Fire hazard Incorrect fuses overload the electrical system.

- Only use fuses with the required ampere value.
- Do not bypass or repair fuses.

Preparatory work

- Switch off ignition to do this briefly press the Race-on button \$ (maximum of 1 second) with the ignition switched on.
- Remove the passenger seat. (p. 182)

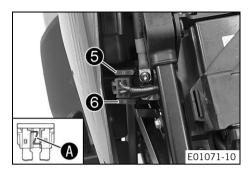




Main work

- Remove screw 1 and screw 2.
- Carefully raise rear fairing 3 slightly.

Take off protection caps 4.



Remove faulty main fuse **5**.



Info

You can recognize a faulty fuse by a burned-out fuse wire $oldsymbol{eta}$.

A spare fuse **6** is located in the starter relay. The main fuse protects all power consumers of the vehicle.

Install a new main fuse.

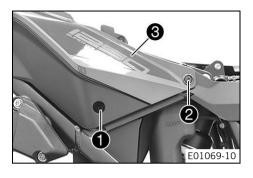
Fuse (58011109130) (p. 312)

- Check that the electrical system is functioning properly.
- Mount the protection caps.



Tip

Insert a new spare fuse into the starter relay to have it available when needed.



- Position rear fairing 3.
- Mount and tighten screw 2.

Guideline

Screw, cover part	M5x17	3.5 Nm
		(2.58 lbf ft)

Mount and tighten screw 1.

Guideline

Screw, cover part	M5x12	3.5 Nm
		(2.58 lbf ft)

Finishing work

- Mount the front rider's seat. (
 p. 184)
- Set the time and date.

16.8 Changing the fuses in the fuse box



Warning

Fire hazard Incorrect fuses overload the electrical system.

- Only use fuses with the required ampere value.
- Do not bypass or repair fuses.



Info

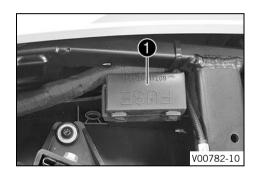
The fuse box containing the fuses of individual power consumers is located under the seat.

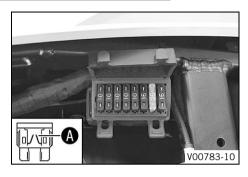
Preparatory work

- Switch off ignition to do this briefly press the Race-on button \circ (maximum of 1 second) with the ignition switched on.
- Remove the passenger seat. (p. 182)
- Remove the front rider's seat. (p. 183)

Main work

- Open fuse box cover 1.





Check the fuses.



Info

You can recognize a faulty fuse by a burned-out fuse wire $oldsymbol{A}$.

Remove the faulty fuse.

Guideline

Fuse 1 - 10 A - power supply for control units and components

Fuse **2** - 10 A - permanent positive for auxiliary equipment (ACC1), ignition positive for auxiliary equipment (ACC2)

Fuse 3 - 10 A - headlight control unit

Fuse 4 - 10 A - headlight control unit

Fuse **5** - 10 A - engine electronics control unit

Fuse 6 - 15 A - suspension control unit

Fuse 7 - 25 A - ABS return pump

Fuse 8 - 15 A - ABS hydraulic unit

- Insert a spare fuse with the correct rating.

Fuse (58011109110) (p. 312)

Fuse (58011109115) (p. 312)

Fuse (58011109125) (p. 312)



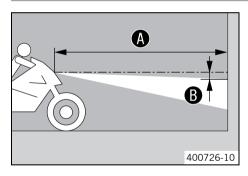
Tip

Insert a spare fuse so that it is available if needed.

- Check that the power consumer is functioning properly.
- Close the fuse box cover.

Finishing work

16.9 Checking the headlight setting



- Park the vehicle on a horizontal surface in front of a lightcolored wall and make a mark at the height of the center of the low beam headlight.
- Make another mark at a distance **B** under the first marking. Guideline

Distance B	5 cm (2 in)

Position the vehicle perpendicular to the wall at a distance A from the wall and switch on the low beam.

Guideline

Distance (A)	5 m (16 ft)

- The rider now mounts the motorcycle with luggage and passenger if applicable.
- Check the headlight setting.

The light-dark boundary must be exactly on the lower marking when the motorcycle is ready to be operated with the rider mounted along with any luggage and a passenger if applicable.

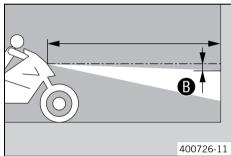
- » If the boundary between light and dark does not meet specifications:

16.10 Adjusting the headlight range

Preparatory work

•





Main work

Turn adjusting wheel 1 to adjust the headlight range.



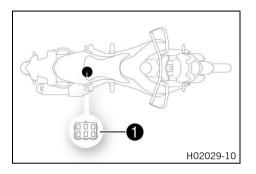
Info

Turn counterclockwise to increase the headlight range; turn clockwise to reduce the headlight range. If you have a payload, you may have to correct the headlight range.

Set the headlight to marking **B**.
 Guideline

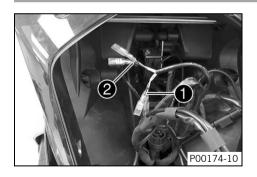
The light-dark boundary must lie exactly on lower marking **3** when the motorcycle is ready to operate with the rider mounted along with any luggage and a passenger if applicable.

16.11 Diagnostics connector



Diagnostics connector 1 is located under the front rider's seat.

16.12 Front ACC1 and ACC2



Installation location

- The front power supplies ACC1 1 and ACC2 2 are located behind the headlight.



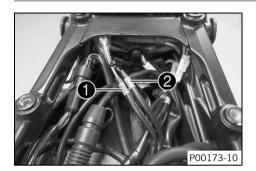
Info

The power supplies are protected by a fuse, however this fuse also protects other power consumers.

The maximum continuous load is therefore significantly lower than the value of the fuse.

Do not use a stronger fuse.

16.13 ACC1 and ACC2 rear



Installation location

The rear power supplies ACC1 **1** and ACC2 **2** are located under the luggage rack plate.



Info

The power supplies are protected by a fuse, however this fuse also protects other power consumers.

The maximum continuous load is therefore significantly lower than the value of the fuse.

Do not use a stronger fuse.

17 COOLING SYSTEM

17.1 Checking the coolant level in the compensating tank



Warning

Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

- Do not open the radiator, the radiator hoses or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses or other components of the cooling system.
- In the event of scalding, rinse the area affected immediately with lukewarm water.



Warning

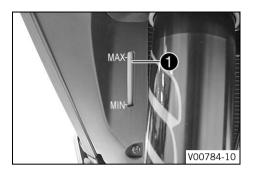
Danger of poisoning Coolant is toxic and a health hazard.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant gets into the eyes.
- Change clothing if coolant spills onto your clothing.

Condition

The engine is cold.

The radiator is completely full.



- Park the motorcycle on a horizontal surface.
- Check the coolant level in the compensating tank 1.

The coolant level must be between MIN and MAX.

- If there is no coolant in the compensating tank:
 - Check the cooling system for leaks. 4



Info

Do not start up the motorcycle!

- Add coolant/bleed the cooling system.
- If the coolant in the compensating tank is not at the required level, but the tank is not empty:
 - Correct the coolant level in the compensating tank. (🕮 p. 274)

273

17 COOLING SYSTEM

17.2 Correcting the coolant level in the compensating tank



Warning

Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

- Do not open the radiator, the radiator hoses or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses or other components of the cooling system.
- In the event of scalding, rinse the area affected immediately with lukewarm water.



Warning

Danger of poisoning Coolant is toxic and a health hazard.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant gets into the eyes.
- Change clothing if coolant spills onto your clothing.

Condition

The engine is cold.

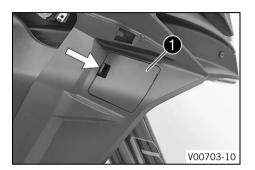
The radiator is completely full.

Preparatory work



Info

Only disassemble the right-hand side.



Main work

Remove cover 1.



- Remove cover **2** of the compensating tank.

17 COOLING SYSTEM



Add coolant until the coolant reaches the specified level.
 Guideline

The coolant level must be between MIN and MAX.

Coolant (p. 324)

- Mount cover 2 of the compensating tank.
- Mount cover 1.

Finishing work

•

18.1 Ride Mode



Possible states

- SPORT Homologated performance with very direct response; the traction control allows greater slip on the rear wheel.
- STREET Homologated performance with balanced response; the traction control allows normal slip on the rear wheel.
- RAIN Reduced homologated performance for better ridability; the traction control allows normal slip on the rear wheel.
- OFFROAD Reduced homologated performance for better ridability; the traction control allows high slip on the rear wheel

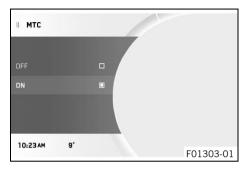
Various settings for the vehicle can be selected in the **Ride Mode** menu. **SPORT**, **STREET**, **RAIN** and **OFFROAD** are available.

The drive mode selected last is displayed in the combination instrument.

The drive mode can also be changed while riding with a closed throttle grip and deactivated speed sensor.

18 TUNING THE ENGINE

18.2 Motorcycle traction control (MTC)



The motorcycle traction control (\underline{MTC}) lowers the engine torque in case of loss of traction in the rear wheel. Depending on the motorcycle traction control setting, a slight slip on the rear wheel may be desirable. Example: offroad.



Info

When motorcycle traction control is switched off, the rear wheel may spin during strong acceleration and on surfaces with low grip, resulting in a risk of crashing.

After the ignition is switched on, motorcycle traction control is enabled again.

The motorcycle traction control is controlled via the **Motorcycle** menu on the combination instrument. The motorcycle traction control can be switched off in the **MTC** menu.



Info

When the motorcycle traction control is active, the TC indicator lamp [3] flashes.

When motorcycle traction control is switched off, the TC indicator lamp Ights up.

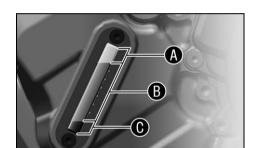
19.1 Checking the engine oil level



Info

Oil consumption depends on the riding style and the operating conditions.

401696-11



Condition

The engine is at operating temperature.

Preparatory work

- Stand the motorcycle upright on a horizontal surface.

Main work

- Check the engine oil level in the engine oil level viewer.



Info

After switching off the engine, wait one minute before checking the level.

The engine oil level should be in the upper part of the range **B** of the engine oil level viewer.

- When the engine oil level is in area of the engine oil level viewer:
 - Do not add engine oil.
- When the engine oil level is in area of the engine oil level viewer:
 - Engine oil can be added.

- When the engine oil level is in area of the engine oil level viewer:
 - Add engine oil. (
 p. 287)

19.2 Changing the engine oil and oil filter, cleaning the oil screens



Warning

Danger of scalding Engine and gear oil get very hot when the motorcycle is ridden.

- Wear suitable protective clothing and safety gloves.
- In the event of scalding, rinse the area affected immediately with lukewarm water.

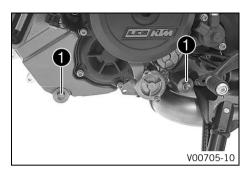


Note

Environmental hazard Hazardous substances cause environmental damage.

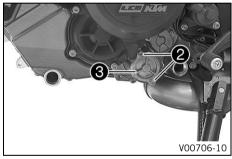
 Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.

Preparatory work

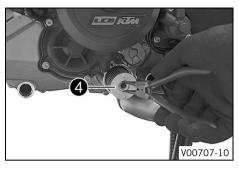


Main work

- Stand the motorcycle on its side stand on a horizontal surface.
- Place an appropriate container under the engine.
- Remove oil drain plugs with the magnets, O-rings, and oil screens.



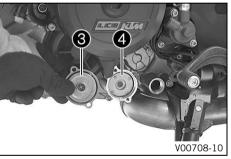
- Remove screws **2**. Take off oil filter cover **3** with the Oring.



Pull oil filter **4** out of the oil filter housing.

Lock ring plier (51012011000)

- Completely drain the engine oil.
- Thoroughly clean the parts and sealing surface.



Insert new oil filter 4.

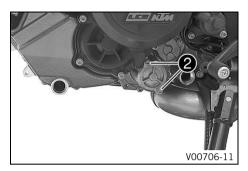


Info

Only insert the oil filter by hand.

Oil the O-ring of the oil filter cover. Mount oil filter cover 3.

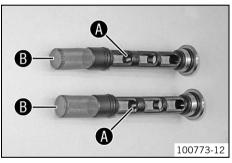




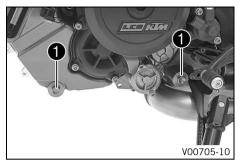
Mount and tighten screws **2**.

Guideline

Remaining engine	M5	6 Nm (4.4 lbf ft)
screws		



Thoroughly clean magnets (A) and oil screens (B) of the oil drain plugs.



Mount and tighten oil drain plugs with the magnets, O-rings, and oil screens.

Guideline

Oil drain plug	M20x1.5	20 Nm (14.8 lbf ft)
----------------	---------	---------------------



Have the entire filling quantity available.

Engine oil Ambient temperature: ≥ 0 °C (≥ 32 °F)	3.60 l (3.8 qt.)	Engine oil (SAE 10W/50) (IP p. 325)
Engine oil Ambient temperature: < 0 °C (< 32 °F)		Engine oil (SAE 5W/40) (IP p. 326)

- Add the oil quantity quantity in two separate operations.
- Remove screw plug **5** and fill up with initial partial quantity.

Engine oil (1st partial quantity) approx. Ambient temperature: ≥ 0 °C (≥ 32 °F)	3.0 I (3.2 qt.)	Engine oil (SAE 10W/50) (IP p. 325)
Engine oil (1st partial quantity) approx. Ambient temperature: < 0 °C (< 32 °F)		Engine oil (SAE 5W/40) (p. 326)

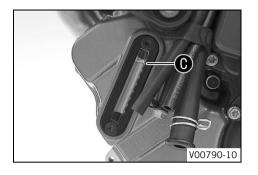
Mount screw plug 6.



Danger

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

- Always make sure there is sufficient ventilation when running the engine.
- Use effective exhaust extraction when starting or running the engine in an enclosed space.
- Start the engine and check for tightness.
- Switch off the engine.



- Remove the screw plug and add the second partial quantity up to the upper marking **(0** on the engine oil level viewer.

	Engine oil (2nd par-	0.60	Engine oil
	tial quantity) approx. Ambient	(0.63 qt.)	(SAE 10W/50) (🕮 p. 325)
	temperature: ≥ 0 °C (≥ 32 °F)		(× p. 020)
	Engine oil (2nd partial quantity) approx. Ambient temperature: < 0 °C (< 32 °F)		Engine oil (SAE 5W/40) (p. 326)

Mount the screw plug.



Danger

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

- Always make sure there is sufficient ventilation when running the engine.
- Use effective exhaust extraction when starting or running the engine in an enclosed space.
- Start the engine and check for tightness.

Finishing work

- Install the engine guard. (p. 215)

19.3 Adding engine oil



Info

Too little engine oil or poor-quality engine oil results in premature wear to the engine. The engine may be damaged if the engine oil level is too high.

Condition

The engine is at operating temperature.

Preparatory work

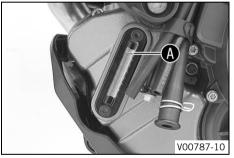
- Stand the motorcycle upright on a horizontal surface.

19 SERVICE WORK ON THE ENGINE



Main work

Remove screw plug 1.



 Add engine oil to upper marking (A) on the engine oil level viewer.

Condition

Ambient temperature: ≥ 0 °C (≥ 32 °F)

Engine oil (SAE 10W/50) (🕮 p. 325)

Condition

Ambient temperature: < 0 °C (< 32 °F)

Engine oil (SAE 5W/40) (p. 326)



Info

In order to achieve optimal engine oil performance, it is not advisable to mix different engine oils.

KTM recommends changing the engine oil.

Mount the screw plug.

SERVICE WORK ON THE ENGINE 19



Danger

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

- Always make sure there is sufficient ventilation when running the engine.
- Use effective exhaust extraction when starting or running the engine in an enclosed space.
- Start the engine and check for tightness.

Finishing work

7

20.1 Cleaning the motorcycle

Note

Material damage Components become damaged or destroyed if a pressure cleaner is used incorrectly.

The high pressure forces water into the electrical components, connectors, throttle cables, and bearings, etc. Pressure which is too high causes malfunctions and destroys components.

- Do not direct the water jet directly on to electrical components, connectors, throttle cables or bearings.
- Maintain a minimum distance between the nozzle of the pressure cleaner and the component.
 Minimum clearance
 60 cm (23.6 in)



Note

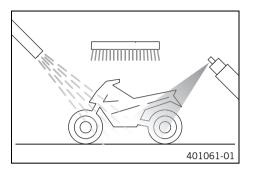
Environmental hazard Hazardous substances cause environmental damage.

 Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.



Info

To maintain the value and appearance of the motorcycle over a long period, clean it regularly. Avoid direct sunshine when cleaning the motorcycle.



- Close off the exhaust system to keep water from entering.
- Remove loose dirt first with a soft jet of water.
- Spray heavily soiled parts with a normal commercial motorcycle cleaner and then brush off with a soft brush.

Motorcycle cleaner (p. 328)



Info

Use warm water containing normal motorcycle cleaner and a soft sponge.

Never apply motorcycle cleaner to a dry vehicle; always rinse the vehicle with water first.

If the vehicle was operated in road salt, clean it with cold water. Warm water would enhance the corrosive effects of salt.

- After rinsing the motorcycle with a gentle spray of water, allow it to dry thoroughly.
- Remove the closure of the exhaust system.



Warning

Danger of accidents Moisture and dirt impair the brake system.

 Brake carefully several times to dry out and remove dirt from the brake linings and the brake discs.

20 CLEANING, CARE

 After cleaning, ride the vehicle a short distance until the engine warms up.



Info

The heat produced causes water at inaccessible locations in the engine and on the brake system to evaporate.

- Push back the protection caps of the handlebar controls to allow any water that has penetrated to evaporate.
- After the motorcycle has cooled down, lubricate all moving parts and pivot points.
- Treat bare metal (except for brake discs and the exhaust system) with a corrosion inhibitor.

Preserving materials for paints, metal and rubber ($\ensuremath{\begin{tabular}{l} \Bbb{P}.329\end{tabular}}$

- Treat the painted parts with a mild paint polish.

Perfect finish and high gloss polish for paints (p. 328)



Info

Do not polish parts that were matte when delivered as this would strongly impair the material quality. Treat the plastic parts and powder-coated parts with a mild cleaning and care product.

Special cleaner for glossy and matte paint finishes, metal and plastic surfaces (p. 329)

Oil the ignition and steering lock, tank lock, and seat lock.

Universal oil spray (🕮 p. 329)

20.2 Checks and maintenance steps for winter operation

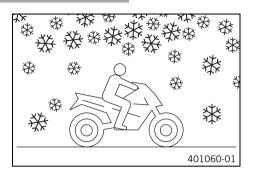


Info

If you use the motorcycle in winter, you must expect salt on the roads. You should therefore take precautions against aggressive road salt.

If the vehicle has been used on salted roads, use cold water for cleaning after riding. Warm water enhances the corrosive effects of salt.

20 CLEANING, CARE



- Clean the motorcycle. (p. 290)
- Clean the brakes.



Info

After **EVERY** trip on salted roads, thoroughly clean the brake calipers and brake linings, after they have cooled down and without removing them, with cold water and dry them carefully.

After riding on salted roads, thoroughly clean the motorcycle with cold water and dry it well.

 Treat the engine, the link fork, and all other bare or zinc-plated parts (except the brake discs) with a wax-based corrosion inhibitor.



Info

Corrosion inhibitor must not come into contact with the brake discs. This would severely lower the braking effect.

– Clean the chain. (🕮 p. 185)

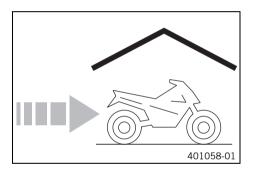
21.1 Storage



Info

If you plan to garage the motorcycle for a longer period, perform the following steps or have them performed.

Before storing the motorcycle, check all parts for function and wear. If service, repairs, or replacements are necessary, you should do this during the storage period (less workshop overload). In this way, you can avoid long workshop waiting times at the start of the new season.



 When refueling for the last time before taking the motorcycle out of service, add fuel additive.

Fuel additive (🕮 p. 328)

- Refuel. (🕮 p. 171)
- Clean the motorcycle. (p. 290)
- Change the engine oil and oil filter and clean the oil screens. **◄** (♠ p. 280)
- Check the coolant fill level and antifreeze.
- Remove the 12-V battery. ◀ (의 p. 250)
 Guideline

Storage temperature of the	0 35 °C (32 95 °F)
12-V battery without direct	
sunlight	

Charge the 12-V battery. ◀ (ՀՀ) p. 255)

21 STORAGE

- Store the vehicle in a dry location that is not subject to large fluctuations in temperature.
- Raise the vehicle with the center stand. (
 p. 180)
- Cover the motorcycle with a tarp or cover that is permeable to air.

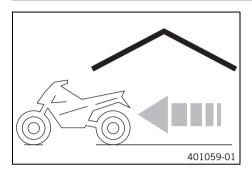


Info

Do not use non-porous materials since they prevent humidity from escaping, thus causing corrosion. Avoid running the engine for a short time only. Since the engine cannot warm up properly, the water vapor produced during combustion condenses and causes valves and the exhaust system to rust.

a

21.2 Preparing for use after storage





Info

If the 12-V battery was removed, the time and date must be set.

- Perform checks and maintenance measures when preparing for use. (
 p. 152)
- Take a test ride.

22 TROUBLESHOOTING



The Race-on indicator lamp ① can indicate errors by flashing. These are indicated up to five seconds after the Race-on tip switch is actuated.



Info

Blink codes referring to $\ensuremath{\mathbf{KTM}}$ $\ensuremath{\mathbf{RACE}}$ on are only displayed once and not repeated.

Faults	Possible cause	Action
No response if the Race-on tip switch is pressed	Race-on tip switch faulty	Check Race-on tip switch for damage.Check cable and plug of Race-on tip switch for damage.

Faults	Possible cause	Action
Race-on indicator lamp flashes twice	No response signal from the Race-on key	 Ensure that the Race-on key is in range. Remove other electronic devices from the vicinity of the Race-on antenna. Check battery compartment in the Race-on key for correct locking. Check the battery compartment of the Race-on key for corrosion. Change the Race-on key battery. p. 260) Use black ignition key.
Race-on indicator lamp flashes three times	12-V battery discharged	Charge the 12-V battery. ♣ (♀ p. 255)Check the open-circuit current. ♣
Race-on indicator lamp flashes four times	Steering lock bolt locked or tense	Move handlebar slightly.
Race-on indicator lamp flashes five times	Race-on antenna faulty	Check Race-on antenna for damage.
The combination instrument shows nothing on the display	Fuse 1 blown	- Change the fuses in the fuse box. (@ p. 264)
	Main fuse burned out	- Change the main fuse. (Q p. 261)
	12-V battery discharged	- Charge the 12-V battery. ◀ (의 p. 255)
		 Check the open-circuit current.

22 TROUBLESHOOTING

Faults	Possible cause	Action
The engine does not turn if the emergency OFF switch/electric	Operating error	 Carry out the start procedure. (€ p. 153)
starter button is pressed into	12-V battery discharged	- Charge the 12-V battery. ◀ (의 p. 255)
the lower position		 Check the open-circuit current.
	Faulty safety starting system	 Read out the fault memory using the KTM diagnostics tool.
	Electronic fault	 Read out the fault memory using the KTM diagnostics tool.
Engine turns only if the clutch	The vehicle is in gear	 Shift the transmission into neutral N.
lever is drawn	Faulty safety starting system	 Read out the fault memory using the KTM diagnostics tool.
Engine turns although a gear is engaged	Faulty safety starting system	 Read out the fault memory using the KTM diagnostics tool.
Engine turns but does not start	The plug-in connection of the fuel hose connection is not connected	Connect the plug-in connection of the fuel line.
	Error in the electronic fuel injection	 Read out the fault memory using the KTM diagnostics tool.
	Fuel quality is insufficient	 Add suitable fuel.
Engine dies during the trip	Lack of fuel	- Refuel. (₩ p. 171)
	Error in the electronic fuel injection	 Read out the fault memory using the KTM diagnostics tool.

Faults	Possible cause	Action
Malfunction indicator lamp lights up	Error in the electronic fuel injection	- Read out the fault memory using the KTM diagnostics tool.
The ABS warning lamp lights up	ABS fuse is blown	- Change the fuses in the fuse box.
	Wheel speeds of front and rear wheels differ greatly	Stop, switch off the ignition, start again.
	Malfunction in ABS	- Read out the fault memory using the KTM diagnostics tool.
High oil consumption	Engine oil level too high	- Check the engine oil level. (🕮 p. 279)
	Engine oil too thin (low viscosity)	- Change the engine oil and oil filter and clean the oil screens. ዺ (興 p. 280)
12-V battery discharged	A power consumer is connected to the socket/ACC1.	Disconnect the power consumer from the socket/ACC1.
		 Charge the 12-V battery. ◄ (♣ p. 255)
	The hazard warning flasher is	- Switch off the hazard warning flasher.
	switched on	 Charge the 12-V battery. ♣ (ՀՀՀ p. 255)
	The 12-V battery is not being charged by the alternator	- Check the charging voltage.
	Ignition was not switched off when vehicle was parked	- Charge the 12-V battery. ◀ (의 p. 255)

23.1 Engine

Design	2-cylinder 4-stroke Otto engine, 75° V arrangement, water-cooled	
Displacement	1,301 cm ³ (79.39 cu in)	
Stroke	71 mm (2.8 in)	
Bore	108 mm (4.25 in)	
Compression ratio	13.1:1	
Idle speed	1,280 1,480 rpm	
Control	DOHC, 4 valves per cylinder, chain-driven	
Valve - valve plate diameter		
Intake	42 mm (1.65 in)	
Exhaust	34 mm (1.34 in)	
Valve clearance		
Exhaust at: 20 °C (68 °F)	0.25 0.30 mm (0.0098 0.0118 in)	
Intake at: 20 °C (68 °F)	0.10 0.15 mm (0.0039 0.0059 in)	
Crankshaft bearing	Sleeve bearing	
Conrod bearing	Sleeve bearing	
Piston	Forged light alloy	
Piston ring	1 upper compression (rectangular) ring, 1 lower compression ring, 1 oil scraper ring	

Engine lubrication	Pressure circulation lubrication with three rotary
	pumps
Primary transmission	40:76
Clutch	Antihopping clutch in oil bath/hydraulically operated
Transmission	6-gear transmission, claw shifted
Transmission ratio	
1st gear	12:35
2nd gear	15:32
3rd gear	18:30
4th gear	20:27
5th gear	24:27
6th gear	35:32
Mixture preparation	Electronic fuel injection
Ignition system	Contactless controlled fully electronic ignition with digital ignition adjustment
Alternator	12 V, 450 W
Spark plug	
Inside spark plug	NGK LKAR9BI-10
Outside spark plug	NGK LMAR7DI-10
Electrode gap, spark plug	1.0 mm (0.039 in)
Cooling	Water cooling, permanent circulation of coolant by water pump

Cold start device	Starter motor
-------------------	---------------

23.2 Engine tightening torques

Screw, damping plate	EJOT ALtracs® M6x14	10 Nm (7.4 lbf ft)	
			Loctite®243™
Screw, retaining bracket, valve	EJOT ALtracs® M6x10	10 Nm (7.4 lbf ft)	
cover, rear			
Hose clip, intake flange	M4	1.5 Nm (1.11 lbf ft)	
Oil nozzle	M5	2 Nm (1.5 lbf ft)	
			Loctite®243™
Remaining engine screws	M5	6 Nm (4.4 lbf ft)	
Screw, bearing retainer	M5	6 Nm (4.4 lbf ft)	
			Loctite®243™
Screw, bearing shells retaining	M5	6 Nm (4.4 lbf ft)	
bracket			Loctite®243™
Screw, crankshaft speed sensor	M5	6 Nm (4.4 lbf ft)	
			Loctite®243™
Screw, engine oil level viewer	M5	4 Nm (3 lbf ft)	
Screw, gear sensor	M5	6 Nm (4.4 lbf ft)	
			Loctite®243™
Screw, resonator	M5	8 Nm (5.9 lbf ft)	
			Loctite®243™

Swing angle sensor screw	M5	5 Nm (3.7 lbf ft)
		Loctite®243™
Bleeder screw, water pump cover	M6	10 Nm (7.4 lbf ft)
Connecting hose bracket	M6	10 Nm (7.4 lbf ft)
		Loctite®243™
Coolant connection screw on the	M6	8 Nm (5.9 lbf ft)
cylinder head		Loctite®243™
Freewheel ring bolt	M6 – 10.9	15 Nm (11.1 lbf ft)
		Loctite® 648™
Nut, cylinder head	M6	9 Nm (6.6 lbf ft)
Remaining engine screws	M6	10 Nm (7.4 lbf ft)
Screw, alternator cover	M6	10 Nm (7.4 lbf ft)
Screw, camshaft bearing support	M6 – 10.9	10 Nm (7.4 lbf ft)
Screw, clutch cover	M6	10 Nm (7.4 lbf ft)
Screw, clutch spring	M6	12 Nm (8.9 lbf ft)
Screw, engine case	M6x60	10 Nm (7.4 lbf ft)
Screw, engine case	M6x80	10 Nm (7.4 lbf ft)
Screw, engine case	M6x90	10 Nm (7.4 lbf ft)
Screw, freewheel holder	M6	10 Nm (7.4 lbf ft)
		Loctite®243™
Screw, locking lever	M6	10 Nm (7.4 lbf ft)
		Loctite®243™

Screw, oil pump cover	M6	10 Nm (7.4 lbf ft)	
, , ,			Loctite®243™
Screw, shift drum locating	M6 – 12.9	18 Nm (13.3 lbf ft)	
			Loctite®243™
Screw, shift lever	M6	15 Nm (11.1 lbf ft)	
			Loctite®243™
Screw, starter motor	M6	10 Nm (7.4 lbf ft)	
Screw, stator	M6	10 Nm (7.4 lbf ft)	
			Loctite®243™
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)	
			Loctite®243™
Stud, timing chain shaft	M6	8 Nm (5.9 lbf ft)	
Vacuum connection	M6	5 Nm (3.7 lbf ft)	
			Loctite®243™
Nozzle 100	M6x0.75	4 Nm (3 lbf ft)	
			Loctite®243™
Plug, crankshaft retainer	M8	15 Nm (11.1 lbf ft)	
Screw, camshaft bearing support	M8 – 10.9	Step 1	
		10 Nm (7.4 lbf ft)	
		Step 2	
		18 Nm (13.3 lbf ft)	

Screw, camshaft bearing support	M8 – 10.9	Step 1 8.5 Nm (6.27 lbf ft) Step 2 14.5 Nm (10.7 lbf ft) Only applies when using: Hexagon socket bit (61229025000)
Screw, engine bearer	M8	20 Nm (14.8 lbf ft) Loctite®243™
Screw, engine case	Expansion screw M8	18 Nm (13.3 lbf ft)
Screw, heat exchanger	M8	15 Nm (11.1 lbf ft)
Screw, timing chain guide rail	M8	15 Nm (11.1 lbf ft) Loctite®243™
Screw, timing chain tensioning rail	M8	15 Nm (11.1 lbf ft) Loctite®243™
Stud, exhaust flange	M8	10 Nm (7.4 lbf ft)
Screw, engine bearer	M10	45 Nm (33.2 lbf ft)
Oil pressure sensor	M10x1	10 Nm (7.4 lbf ft)
Plug, cam lever axis	M10x1	15 Nm (11.1 lbf ft)
Plug, clutch lubrication	M10x1	10 Nm (7.4 lbf ft)
Screw plug, engine case	M10x1	15 Nm (11.1 lbf ft)
Screw plug, oil channel	M10x1	15 Nm (11.1 lbf ft)
Screw plug, spreading transmission lock	M10x1	12 Nm (8.9 lbf ft)

Screw, conrod bearing	M10x1	Step 1 25 Nm (18.4 lbf ft) Step 2 30 Nm (22.1 lbf ft) Step 3 90°
Screw, timing chain tensioner release	M10x1	10 Nm (7.4 lbf ft)
Spark plug	M10x1	11 Nm (8.1 lbf ft)
Cylinder head screw	M11x1.5	Tightening sequence: Using a crisscross pattern Step 1 15 Nm (11.1 lbf ft) Step 2 30 Nm (22.1 lbf ft) Step 3 90° Step 4 90° Lubricated with engine oil
Coolant temperature sensor	M12x1.5	12 Nm (8.9 lbf ft)
Screw, rotor	Expansion screw M12x1.5	115 Nm (84.8 lbf ft)
Spark plug	M12x1.5	18 Nm (13.3 lbf ft)
Nut of engine sprocket	M20x1.5	100 Nm (73.8 lbf ft) Loctite®243™

Oil drain plug	M20x1.5	20 Nm (14.8 lbf ft)
Nut, inner clutch hub	M22x1.5	120 Nm (88.5 lbf ft)
		Loctite®243™
Plug, timing-chain tensioner	M24x1.5	25 Nm (18.4 lbf ft)
Screw in alternator cover	M24x1.5	8 Nm (5.9 lbf ft)
Nut, primary gear wheel	M33LHx1.5	130 Nm (95.9 lbf ft)
		Loctite®243™

23.3 Capacities

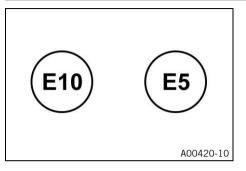
23.3.1 Engine oil

Engine oil Ambient temperature: ≥ 0 °C (≥ 32 °F)	3.60 I (3.8 qt.)	Engine oil (SAE 10W/50) (🕮 p. 325)
Engine oil Ambient temperature: < 0 °C (< 32 °F)		Engine oil (SAE 5W/40) (🕮 p. 326)

23.3.2 **Coolant**

Coolant	2.40 l (2.54 qt.)	Coolant (p. 324)

23.3.3 Fuel



Please observe the labels on EU fuel pumps.

Fuel reserve, approx.		3.5 l (3.7 qt.)	
Total fuel tank capacity, approx.	23 I (6.1 US gal)		Super unleaded (ROZ 95/RON 95/PON 91) (🕮 p. 326)

23.4 Chassis

Frame	Lattice frame made of chrome molybdenum steel tubing, powder-coated
Fork	WP Performance Systems Semi-active Suspension
Shock absorber	WP Performance Systems Semi-active Suspension
Suspension travel	•
front	200 mm (7.87 in)

rear	200 mm (7.87 in)	
Brake system		
front	Double disc brake with radially mounted four-piston brake calipers, floating brake discs	
rear	Single disc brake with dual-piston brake caliper, floating brake disc	
Brake discs - diameter	·	
front	320 mm (12.6 in)	
rear	267 mm (10.51 in)	
Brake discs - wear limit		
front	4 mm (0.16 in)	
rear	4.5 mm (0.177 in)	
Tire pressure, solo / with passenger / full payload		
front: with cold tires	2.4 bar (35 psi)	
rear: with cold tires	2.9 bar (42 psi)	
Secondary drive ratio	17:42	
Chain	5/8 x 5/16" (525) X-ring	
Steering head angle	64°	
Wheelbase	1,560 ± 15 mm (61.42 ± 0.59 in)	
Seat height, unloaded	860/875 mm (860/875 in)	
Ground clearance, unloaded	220 mm (8.66 in)	
Weight without fuel, approx.	226.4 kg (499.1 lb.)	

Maximum permissible front axle load	175 kg (386 lb.)
Maximum permissible rear axle load	300 kg (661 lb.)
Maximum permissible total weight	460 kg (1,014 lb.)

23.5 Electrical system

12-V battery	YTZ14S	Battery voltage: 12 V Nominal capacity: 11.2 Ah Maintenance-free
Race-on key battery	CR 2032	3 V
Fuse	58011109110	10 A
Fuse	58011109115	15 A
Fuse	58011109125	25 A
Fuse	58011109130	30 A

Low beam	LED
High beam	LED
Position light	LED
Cornering light	LED
Combination instrument lighting and indicator lamps	LED
Turn signal	LED
Tail light	LED
Brake light	LED

License plate lamp	LED
--------------------	-----

23.6 Tires

Front tire	Rear tire
120/70 ZR 19 M/C 60W TL	170/60 ZR 17 M/C 72W TL
Pirelli Scorpion Trail 2 K	Pirelli Scorpion Trail 2 K

The tires specified represent one of the possible series production tires. Additional information is available in the Service section under:

http://www.ktm.com

23.7 Fork

Fork article number	14.18.1Q.26
Fork	WP Performance Systems Semi-active Suspension
Spring length with preload spacer(s)	443 mm (17.44 in)
Spring rate	·
Medium (standard)	12 N/mm (69 lb/in)
Fork length	885 mm (34.84 in)

Fork oil, fork leg, left	680 ml (22.99 fl. oz.)	Fork oil (SAE 4) (48601166S1) (🕮 p. 326)
Fork oil, fork leg, right	430 ml (14.54 fl. oz.)	Fork oil (SAE 4) (48601166S1) (🕮 p. 326)

23.8 Shock absorber

Shock absorber article number	01.18.1Q.26
Shock absorber	WP Performance Systems Semi-active Suspension
Spring rate	
Medium (standard)	160 N/mm (914 lb/in)
Spring length	198.5 mm (7.815 in)
Static sag	25 mm (0.98 in)

23.9 Chassis tightening torques

Screw, combination switch, left		5 Nm (3.7 lbf ft)
Screw, headlight	EJOT ALtracs® 60x20	8 Nm (5.9 lbf ft)
Screw, headlight bracket	EJOT ALtracs® 50x12	7 Nm (5.2 lbf ft)
Screw, fixed grip, left	M4	2 Nm (1.5 lbf ft)
Screw, side stand switch	M4	2 Nm (1.5 lbf ft)
Remaining nuts, chassis	M5	5 Nm (3.7 lbf ft)
Remaining screws, chassis	M5	5 Nm (3.7 lbf ft)
Screw for throttle grip	M5	3.5 Nm (2.58 lbf ft)
Screw, brake line holder on frame	M5	2 Nm (1.5 lbf ft)
Screw, brake line holder on link	M5	5 Nm (3.7 lbf ft)
fork		

0 11 1	ME	EN (2.7 H (())
Screw, cable channel	M5	5 Nm (3.7 lbf ft)
Screw, chain sliding guard	M5	5 Nm (3.7 lbf ft)
Screw, combination instrument	M5	4.5 Nm (3.32 lbf ft)
Screw, combination switch, right	M5	3.5 Nm (2.58 lbf ft)
Screw, cover part	M5x12	3.5 Nm (2.58 lbf ft)
Screw, cover part	M5x17	3.5 Nm (2.58 lbf ft)
Screw, cross member for luggage support	M5	4 Nm (3 lbf ft)
Screw, foot brake lever stub	M5	6 Nm (4.4 lbf ft)
		Loctite®243™
Screw, fuel level sensor	M5	3 Nm (2.2 lbf ft)
Screw, fuel tank filler cap	M5	3 Nm (2.2 lbf ft)
Screw, heat guard on main silencer	M5	4 Nm (3 lbf ft)
Screw, mask spoiler	M5x12	3.5 Nm (2.58 lbf ft)
Screw, rear wheel speed sensor	M5	3 Nm (2.2 lbf ft)
cable guide		
Screw, wind shield	M5	3.5 Nm (2.58 lbf ft)
Ground fitting on frame	M6	6 Nm (4.4 lbf ft)
Nut, ABS module fastening	M6	8 Nm (5.9 lbf ft)
Remaining nuts, chassis	M6	10 Nm (7.4 lbf ft)
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
Screw, acceleration sensor	M6	6 Nm (4.4 lbf ft)

Screw, angle sensor	M6	6 Nm (4.4 lbf ft)
		Loctite®243™
Screw, ball joint of push rod on	M6	10 Nm (7.4 lbf ft)
foot brake cylinder		Loctite®243™
Screw, battery terminal	M6	4.5 Nm (3.32 lbf ft)
Screw, bushing	M6	4 Nm (3 lbf ft)
Screw, cable channel	M6	5 Nm (3.7 lbf ft)
Screw, chain guide	M6	5 Nm (3.7 lbf ft)
Screw, clutch assembly	M6	5 Nm (3.7 lbf ft)
Screw, cooler retaining bracket	M6	7 Nm (5.2 lbf ft)
Screw, cover part	M6	6 Nm (4.4 lbf ft)
Screw, engine guard	M6	10 Nm (7.4 lbf ft)
Screw, exhaust clamp	M6	8 Nm (5.9 lbf ft)
Screw, foot brake cylinder	M6	10 Nm (7.4 lbf ft)
		Loctite®243™
Screw, front brake disc	M6	14 Nm (10.3 lbf ft)
		Loctite®243™
Screw, front wheel speed sensor	M6	10 Nm (7.4 lbf ft)
Screw, fuel pump	M6	6 Nm (4.4 lbf ft)
Screw, fuel tank	M6	10 Nm (7.4 lbf ft)
Screw, fuel tap	M6	6 Nm (4.4 lbf ft)

Screw, handlebar clamp hand guard	M6	5 Nm (3.7 lbf ft)
Screw, lower rear panel	M6	6 Nm (4.4 lbf ft)
Screw, magnetic holder on side stand	M6	6 Nm (4.4 lbf ft) Loctite®243™
Screw, rear brake disc	M6	14 Nm (10.3 lbf ft) Loctite®243™
Screw, rear wheel speed sensor	M6	10 Nm (7.4 lbf ft)
Screw, retaining bracket, angle sensor	M6	10 Nm (7.4 lbf ft)
Screw, voltage regulator	M6	6 Nm (4.4 lbf ft)
Angled valve (Super Adventure S EU/CN)	M8	6 Nm (4.4 lbf ft)
Angled valve (Super Adventure S JP)	M8	4 Nm (3 lbf ft)
Remaining nuts, chassis	M8	25 Nm (18.4 lbf ft)
Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)
Screw, bottom triple clamp	M8	12 Nm (8.9 lbf ft)
Screw, exhaust clamp	M8	25 Nm (18.4 lbf ft)
Screw, foot brake lever	M8	25 Nm (18.4 lbf ft) Loctite®243™
Screw, fork stub	M8	15 Nm (11.1 lbf ft)

Carrat front footwork brooket	MO	OF N== (10 4 lbf ft)	
Screw, front footrest bracket	M8	25 Nm (18.4 lbf ft)	Loctite®243™
			LOCKIO L IO
Screw, handle bar end hand guard	M8	25 Nm (18.4 lbf ft)	
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)	
Screw, ignition lock (tamper-proof	M8	25 Nm (18.4 lbf ft)	
screw)			Loctite®243™
Screw, rail fitting	M8	20 Nm (14.8 lbf ft)	
			Loctite®243™
Screw, rear footrest bracket	M8	25 Nm (18.4 lbf ft)	
			Loctite®243™
Screw, steering damper	M8	25 Nm (18.4 lbf ft)	
			Loctite®243™
Screw, steering damper clamp	M8	12 Nm (8.9 lbf ft)	
Screw, steering stem	M8	20 Nm (14.8 lbf ft)	
Screw, suitcase hook	M8	20 Nm (14.8 lbf ft)	
			Loctite®243™
Screw, top triple clamp	M8	20 Nm (14.8 lbf ft)	
Remaining nuts, chassis	M10	45 Nm (33.2 lbf ft)	
Remaining screws, chassis	M10	45 Nm (33.2 lbf ft)	
Screw, front brake caliper	M10	45 Nm (33.2 lbf ft)	
			Loctite®243™
Screw, handlebar support	M10	40 Nm (29.5 lbf ft)	
			Loctite®243™

Screw, side stand	M10	35 Nm (25.8 lbf ft)
		Loctite®243™
Screw, side stand bracket	M10	45 Nm (33.2 lbf ft)
		Loctite®243™
Banjo bolt, brake line	M10x1	25 Nm (18.4 lbf ft)
Nut, rear sprocket screw	M10x1.25	50 Nm (36.9 lbf ft)
		Loctite®243™
Lambda sensor	M12x1.25	25 Nm (18.4 lbf ft)
Screw, bottom shock absorber	M14x1.5	80 Nm (59 lbf ft)
		Thread greased
Screw, top shock absorber	M14x1.5	80 Nm (59 lbf ft)
		Thread greased
Nut, socket	M18x1	4 Nm (3 lbf ft)
Nut, fork pivot	M19x1.5	130 Nm (95.9 lbf ft)
		Thread greased
Nut, seat lock	M22x1.5	4 Nm (3 lbf ft)
Screw, steering head, top	M22x1.5	18 Nm (13.3 lbf ft)
Nut, rear wheel spindle	M25x1.5	90 Nm (66.4 lbf ft)
·		Thread greased
Screw, front wheel spindle	M25x1.5	45 Nm (33.2 lbf ft)
·		Thread greased

24.1 Declarations of conformity



Info

The functional and equipment scope is model-dependent and may not include all wireless systems and application areas referred to.

KTM AG hereby declares that the **KTM RACE ON system** wireless system conforms with the relevant guidelines. The full text of the Declaration of Conformity is available at the following Internet address. Certification website: http://www.ktm.com/ktm-race-on-system

KTM AG hereby declares that the **LC8 DASHBOARD** wireless system conforms with the relevant guidelines. The full text of the Declaration of Conformity is available at the following Internet address. Certification website: http://www.ktm.com/lc8-dashboard

Schrader Electronics Ltd hereby declares that the **Tyre Pressure Monitoring System** wireless system conforms with the relevant guidelines. The full text of the Declaration of Conformity is available at the following Internet address.

Certification website: http://www.ktm.com/tpms

DECLARATIONS OF CONFORMITY

24.2 **Country-specific declarations of conformity**



Advertencias de IFETEL

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia periudicial y

(2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Modelo XCB0305 (unidad central) K0349-0 (llave activa)

Certificado Homologacion Numero: RLVZAXC17-1532







AGREE PAR L'ANRT MAROC

Numéro d'agrément : MR 14689 ANRT 2017 Date d'agrément : 31/08/2017

AGREE PAR L'ANRT MAROC

Numéro d'agrément : MR 14690 ANRT 2017 Date d'agrément : 31/08/2017





06880-17-08714

Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

Model: XCB0305



07025-17-08714

Este equipamento opera em caráter secundário, isto é. não tem direito a proteção contra interferência prejudicia mesmo de estações do mesmo tipo, e não pode causa interferência a sistemas operando em caráter primário.

NOTICE

ICA-SA TA-2017/1409

This equipment has been registered with the Telecommunications Regulatory Authority for use in the UAE.

> TRA REGISTERED No: ER63529/18 DEALER No: DA75721/18

NOTICE

registered with the Telecommunications Regulatory Authority for use in the LIAF

> TRA ER63531/18 **DEALER No:**

This equipment has been

REGISTERED No: DA75721/18

It is forbidden to make any technical change in this product.

UA.TR.109.0199-17

מוצר זה פטור מרישיוו הפעלה אלחוטי. המוצר אסור לשימוש למתו שרות לצד ג'.

אסור להחליף אנטנת המכשיר המקורית. אסור לעשות במכשיר כל שינוי טכני.

It is forbidden to replace the original antenna

This product does not need an Israeli wireless operation license

It is forbidden to use this product for service to third party.



UA.TR.109.0198-17



Company name: ZADI S.p.A. Equipment Name: Keyless System Basic Model Name: XCB0305 Series Model Name: XCB0307 Manufactured Date: Week / Year Manufacturer / Country: ZADI S.p.A./ ITALY



Company name: ZADI S.p.A. Equipment Name: RRS Remote control key Model Name: K0349-0 Manufactured Date: Week / Year Manufacturer / Country: ZADI S.p.A./ ITALY

Complies with IMDA Standards DA107682



F01726-01

25.1 Information on open source software

Some vehicle components use open source software.

The source code of the software used and other information are available online.

Overview: http://www.ktm.com/ktm-oss



Info

Due to the file size, the download may time a long time. Depending on the Internet provider, costs may arise due to the data volume.

Brake fluid DOT 4 / DOT 5.1

Standard/classification

DOT

Guideline

 Use only brake fluid that complies with the specified standard (see specifications on the container) and that exhibits the corresponding properties.

Recommended supplier

Castrol

REACT PERFORMANCE DOT 4

MOTOREX®

Brake Fluid DOT 5.1

Coolant

Guideline

- Only use high-grade, silicate-free coolant with corrosion inhibitor additive for aluminum motors. Low grade and unsuitable antifreeze causes corrosion, deposits and frothing.
- Do not use pure water as only coolant is able to meet the requirements needed in terms of corrosion protection and lubrication properties.
- Only use coolant that complies with the requirements stated (see specifications on the container) and that has the relevant properties.

Antifreeze protection to at least	-25 °C (-13 °F)
-----------------------------------	-----------------

The mixture ratio must be adjusted to the necessary antifreeze protection. Use distilled water if the coolant needs to be diluted.

The use of premixed coolant is recommended.

Observe the coolant manufacturer specifications for antifreeze protection, dilution and miscibility (compatibility) with other coolants.

Recommended supplier MOTOREX®

- COOLANT M3.0

Engine oil (SAE 10W/50)

Standard/classification

- JASO T903 MA2 (
 p. 330)
- SAE (♀ p. 330) (SAE 10W/50)

Guideline

 Use only engine oils that comply with the specified standards (see specifications on the container) and that possess the corresponding properties.

Fully synthetic engine oil

Recommended supplier MOTOREX®

Power Synt 4T

Engine oil (SAE 5W/40)

Standard/classification

- JASO T903 MA2 (♠ p. 330)
- SAE (♠ p. 330) (SAE 5W/40)

Guideline

 Use only engine oils that comply with the specified standards (see specifications on the container) and that possess the corresponding properties.

Fully synthetic engine oil

Recommended supplier

MOTOREX®

Power Synt 4T

Fork oil (SAE 4) (48601166S1)

Standard/classification

- SAE (≅ p. 330) (SAE 4)

Guideline

 Use only oils that comply with the specified standards (see specifications on the container) and that exhibit the corresponding properties.

Super unleaded (ROZ 95/RON 95/PON 91)

Standard/classification

DIN EN 228 (ROZ 95/RON 95/PON 91)

Guideline

Only use unleaded super fuel that matches or is equivalent to the specified fuel grade.

Fuel with an ethanol content of up to 10 % (E10 fuel) is safe to use.



Info

Do **not** use fuel containing methanol (e. g. M15, M85, M100) or more than 10 % ethanol (e. g. E15, E25, E85, E100).

27 AUXILIARY SUBSTANCES

Chain cleaner

Recommended supplier MOTOREX®

Chain Clean

Fuel additive

Recommended supplier MOTOREX®

- Fuel Stabilizer

Long-life grease

Recommended supplier MOTOREX $^{\otimes}$

- Bike Grease 2000

Motorcycle cleaner

Recommended supplier MOTOREX®

- Moto Clean

Perfect finish and high gloss polish for paints

Recommended supplier MOTOREX®

Moto Shine

Preserving materials for paints, metal and rubber

Recommended supplier MOTOREX®

Moto Protect

Special cleaner for glossy and matte paint finishes, metal and plastic surfaces

Recommended supplier MOTOREX®

- Quick Cleaner

Street chain spray

Guideline

Recommended supplier MOTOREX®

- Chainlube Road Strong

Universal oil spray

Recommended supplier MOTOREX®

Joker 440 Synthetic

28 STANDARDS

JASO T903 MA2

Different technical development directions required a separate specification for motorcycles – the **JASO T903 MA2** standard.

Earlier, engine oils from the automobile industry were used for motorcycles because there was no separate motorcycle specification.

Whereas long service intervals are demanded for automobile engines, the focus for motorcycle engines is on high performance at high engine speeds.

In most motorcycle engines, the transmission and clutch are lubricated with the same oil.

The JASO T903 MA2 standard meets these special requirements.

SAE

The SAE viscosity classes were defined by the Society of Automotive Engineers and are used for classifying oils according to their viscosity. The viscosity describes only one property of oil and says nothing about quality.

ABS	Anti-lock braking system	Safety system that prevents locking of the wheels when driving straight ahead without the influence of lateral forces
ATIR	Automatic Turn Indicator Reset	Software, which automatically switches the indicator off according to a time or travel distance counter
DRL	Daytime Running Light	Light, which enhances the visibility of the vehicle dur- ing the day but is not focused, and in contrast to low beam does not illuminate the road surface
ETTC	Engine traction torque control	Auxiliary function of the engine control, which prevents rear wheel locking with excessive engine braking effect, by lightly opening the throttle valve
HHC	Hill Hold Control	Assist, which prevents the vehicle from rolling backwards on an incline
-	KTM RACE ON	System that releases the ignition, steering lock, and fuel tank filler cap via a remote key with a transponder
MSC	Motorcycle Stability Control	The is an auxiliary function for the ABS, which can prevent blocking and slipping of the wheels during braking on an inclined position, within the physical limitations
MTC	Motorcycle Traction Control	Auxiliary function of the motor control that reduces engine torque with spinning rear wheel
OBD	On-board diagnosis	Vehicle system, which monitors the specified parameters of the vehicle electronics

29 INDEX OF SPECIAL TERMS

-	Quickshifter +	Engine electronics function for shifting up and down without clutch actuation
TPMS	Tire pressure monitoring system	A safety system that monitors the tire pressure with the assistance of sensors in the tires and displays it to the rider

Art. no.	Article number
ca.	circa
cf.	compare
e.g.	for example
etc.	et cetera
i.a.	inter alia
no.	number
poss.	possibly

31 LIST OF SYMBOLS

31.1 Red symbols

Red symbols indicate an error condition that requires immediate intervention.



The oil pressure warning lamp lights up red – The oil pressure is too low. Stop immediately, taking care not to endanger yourself or other road users in the process, and switch off the engine.

31.2 Yellow and orange symbols

Yellow and orange symbols indicate an error condition that requires prompt intervention. Active driving aids are also represented by yellow or orange symbols.

	Race-on indicator lamp lights up/flashes yellow/orange/red – Status or error messages relating to Race-on system/alarm system.
\triangle	The general warning lamp lights up yellow – A note/warning note on operating safety has been detected. This is also shown in the display.
((ABS))	The ABS warning lamp lights up yellow – Status or error messages relating to ABS. The ABS warning lamp flashes if the ABS mode Offroad is enabled.
<u>(IC)</u>	TC indicator lamp lights up/flashes yellow – The MTC (p. 278) is not enabled or is currently intervening. The TC indicator lamp also lights up if an error is detected. Contact an authorized KTM workshop. The TC indicator lamp flashes if TC actively engages or if the HHC (p. 158) (optional) is activated.
*(5)	The cruise control system indicator lamp lights up yellow – The cruise control system function is switched on, but the speed control is not active.



Malfunction indicator lamp lights up yellow – The OBD has detected an emission- or safety-critical fault.

31.3 Green and blue symbols

Green and blue symbols reflect information.

(The left turn signal indicator lamp flashes green with a steady rhythmic flash – The left turn signal is switched on.
	The high beam indicator lamp lights up blue – The high beam is switched on.
N	The idle indicator lamp lights up green – The transmission is in neutral.
(C)	The cruise control system indicator lamp lights up green – The cruise control system function is switched on and the speed control is active.
→	The right turn signal indicator lamp flashes green with a steady rhythmic flash – The right turn signal is switched on.

	rear brake, adding
1	Brake fluid level
12-V battery	front brake, checking
charging	rear brake, checking
installing	Brake linings
removing	front brake, checking
A	rear brake, checking
ABS 216	Brake system
ACC1	Brakes
front	C
rear 271	Capacity
ACC2	coolant
front	engine oil
rear 271	fuel 173, 310
Accessories	Case holders
Anti-lock braking system 216	Center stand
Applying the brakes	Chain
Auxiliary substances	checking
В	checking for dirt
Brake discs	cleaning
checking	Chain tension
Brake fluid	adjusting
front brake, adding	checking
Applying the brakes	Chain190checking for dirt185cleaning185Chain tension188adjusting188

Clutch	fuel level display
fluid level, checking/correcting 193	General Info
Clutch lever	Headset Pass.
basic position, adjusting	Headset Rider
Combination instrument	heated grip (optional)
ABS	Heated Grips (optional) 105, 127
ABS display	Heated Seat (optional)
activation and test	Heated Seat Pas (optional)
adjusting tilt	Heated Seat Rid (optional)
ambient air temperature indicator	HHC (optional)
Audio	ice warning
Bluetooth	indicator lamps
Consumption	Info
coolant temperature indicator	KTM MY RIDE 80
Cornering Light Test	Language
cruise control indicator	Load 107, 178
Damp display	Load display
Damping	menu
Day-Night mode	Motorcycle
display	MTC 110
Distance	MTC display
DRL	MTC+MSR (optional)
Extra Functions	Navi Info Screen
Favourites	navigation
Favourites display	navigation information

navigation setup 84	Units
Navigation display	volume 87
overview 56	warnings 60, 103
Phone	Wireless Interface
Preferences 118 Pressure 120 Quick Selector 1 116 Quick Selector 1 display 78 Quick Selector 2 117 Quick Selector 2 display 78 Quickshifter + (optional) 126 Ride display 72 Ride Mode 109, 277	Combination switch left side
seat heater (optional) 74 Service 103	Cruise control system
Settings	operation
Setup	Customer service
shift warning light	D
telephony	Date
Temperature	adjusting
time 77	Daytime running light
TPMS	Declarations of conformity
Trip 1	country-specific
Trip 2	Diagnostics connector
	Diagnostics connector

DRL 248	Foot brake lever
E	basic position, adjusting 144
Electric starter button	Footrests adjusting
Engine running in	Fork 178 dust boots, cleaning 208
Engine guard	Fork part number
installing	Front fender installing
Engine number	Front rider's seat
Engine oil 287 adding 280 changing 280	mounting
Engine oil level checking	Front side cover
Engine sprocket checking	installing
Engine traction torque control	Front wheel installing
F	Fuel cocks
Figures	Fuel tank cover installing

removing	I
Fuel tank filler capclosing47opening45Fuel, oils, etc.18	Ice warning61Immobilizer43Indicator lamps62Intended use12
Fuses in fuse box, changing	K Key number
G	L
Grab handles	Light switch 32 Luggage 149
Hand brake lever	Luggage rack plate 50 M
Handlebar position 131 adjusting 131	Main fuse changing
Hazard warning flasher	Manufacturer warranty
Hazard warning flasher switch	Mask spoiler installing 204 removing 200 Misuse 12
Headlight setting checking	Motorcycle cleaning
Horn button	Motorcycle traction control

MSR	Protective clothing
MTC 278	Q
0	Quickshifter +
Oil filter	R
changing	Race-on key
Oil screens	changing the Race-on key battery 260
cleaning 280	Race-on tip switch
Open source information	Rear hub damping rubber pieces checking
Open source information	Rear sprocket checking
Owner's Manual	Rear wheel
P	installing
Parking	removing
Passenger foot pegs	Refueling
Passenger seat	fuel
mounting	Rider footrests
removing 182	Riding 159
Preparing for use	starting off 156
advice on preparing for first use 147	Starting off with HHC (optional) 158
after storage	\$
preparing for use	Safe operation

Seat lock	USB socket45
Service	Suspension setting
Service schedule	T
Shift lever52basic position, adjusting141basic position, checking140	Technical data capacities
Shift lever stub adjusting	
Shifting	engine
Shock absorber	engine tightening torques
Shock absorber article number	fork 313
Side stand	shock absorber 314
Socket for electrical accessories 44	tires 313
Spare parts	Throttle grip
Starting 153 Steering damper article number 29	Time adjusting
Steering head bearing play checking	Tire condition checking
Steering lock 42 Stopping 168 Steering 205	Tire pressure checking
Storage	Tire repair spray using24
closing	Transporting

Triple clamp cover, bottom	Winter operation
installing	checks and maintenance steps 293
removing	Work rules
Troubleshooting	
Turn signal switch	
Type label	
U	
USB socket	
Use definition	
V	
Vehicle	
loading 149	
raising with the center stand 180	
removing from the center stand 181	
Vehicle identification number	
View of vehicle	
front left	
rear right	
W	
Windshield	
adjusting 134	
installing	
removing	





3213911en 08/2018







