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Page 1 OWNER'S MANUAL 2019 RC 125 Art. no. 3213931en... Page 3 DEAR KTM CUSTOMER congratulations on your decision to purchase a KTM motorcycle. You are now the owner of a state-of-the-art DEAR KTM CUSTOMER sports vehicle that will continue giving you pleasure for a long time if you maintain it properly. Page 4 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 KTM
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...137 15.7 Changing the high beam bulb..175 13.7 Adding rear brake fluid ....138 15.8 Checking the low beam headlight 13.8 Checking the rear brake linings .. Page 9 TABLE OF CONTENTS 17 TUNING THE ENGINE...... 200 22.2 Engine tightening torques ....22 22.3 Capacities .......226 17.1 Checking throttle cable play .... 200 22.3.1 Engine
       ....... 226 17.2 Adjusting throttle cable play ..201 22.3.2 Coolant .......26 17.3 Checking the clutch lever play.. 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. MEANS OF REPRESENTATION 1 Indicates a current measurement. Indicates a current measurement. Indicates a current measurement are explained below. Proprietary name Indicates a
proprietary name. Name ®... 2 SAFETY ADVICE Use definition - intended use This vehicle is only authorized for operation on public roads in its homologated version. Misuse The vehicle
must only be used as intended. SAFETY ADVICE 2 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. Degrees of risk and symbols Danger Identifies a
danger that will immediately and invariably lead to fatal or serious permanent injury if the... 2 SAFETY ADVICE Tampering warning Tampering warning the removal or rendering inoperative by any person other than for purposes of servicing, repair,
or replace- ment, 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 2 the use of the vehicle after such device or element of design has been removed or rendered inoperative by any... 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 while wearing protective clothing. Work rules Special
tools are necessary for certain tasks. The tools are not a 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: ... Manufacturer and implied 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 coverage will become void. Please follow the
instructions in the text. Customer service Your authorized KTM dealer will be happy to answer any questions you may have on your vehicle and KTM. Page 20 3 IMPORTANT NOTES A list of authorized KTM dealers can be found on the KTM website. International KTM Website: ... Page 21 IMPORTANT NOTES 3... 4 VIEW OF VEHICLE View of vehicle
front left (example) S03379-10... Page 23 VIEW OF VEHICLE 4 Horn button (p. 28) High beam flasher button (p. 28) Turn signal switch (p. 28) Fuel tank filler cap Seat lock (p. 26) Fuel tank filler cap Seat lock (p. 27) Light switch (p. 28) Turn signal switch (p. 28
handles (p. 37) Tool set (p. 36) Ignition and steering lock (p. 31) Emergency OFF switch (p. 30) Electric starter button (p. 30) Throttle grip (p. 27) Hand brake lever (p. 5 SERIAL NUMBERS Vehicle identification number is stamped on the right of the frame behind the steering head. 402174-10 Type label The type
label is located on the right side of the frame. H01135-10... SERIAL NUMBERS 5 Engine number to order a spare key. Keep the KEYCODECARD in a safe
place. 6 CONTROLS Clutch lever The clutch lever is fitted on the left side of the handlebar. V00625-10 Hand brake lever is fitted on the right side of the handlebar. The front brake lever is fitted on the right side of the handlebar.
 V00628-11 Horn button The horn button is fitted on the left side of the handlebar. Possible states • Horn button in neutral position pressed - The horn is operated in this posi- •... 6 CONTROLS Light switch is fitted on the left side of the handlebar. Possible states Low beam on - The light switch is turned downward. In this position, the
low beam and tail light are switched on. High beam on - The light switch is turned upwards. In this position, the high beam and the tail light are switched on. CONTROLS 6 Turn signal switch pressed to the left. The
turn signal switch returns automatically to the central position after use. 6 CONTROLS Emergency OFF switch is fitted on the right side of the handlebar. Possible states Emergency OFF switch off - In this position, the igni- tion circuit is interrupted, a running engine stops, and a non-running engine cannot be started.
Emergency OFF switch on -... CONTROLS 6 6.10 Ignition and steering lock The ignition and steering lock is located in front of the upper triple clamp. Possible states Ignition off OFF - In this position, the ignition and steering lock is located in front of the upper triple clamp. Possible states Ignition off OFF - In this position, the ignition and steering lock is located in front of the upper triple clamp.
handlebar all the way to the left. - Insert the ignition key into the ignition key into the ignition key. Steering is no longer possible. 400732-01 6.12 Unlocking the steering... CONTROLS 6 6.13 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. -... Page 36 6 CONTROLS 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. - Lift cover of the fuel tank filler cap and insert
the ignition key into the lock. CONTROLS 6 6.14 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 cor- rectly after closing. - Change your clothing if fuel spills on them. -... 6 CONTROLS 6.15 Seat lock The seat lock is located to the left of the seat. The
seat lock can be unlocked using the ignition key. V00633-10 6.16 Tool set The tool set is in the storage compartment under the seat. V00634-10... CONTROLS 6 6.17 Grab handles are used for moving the motorcycle around. If you carry a passenger, the passenger can hold onto the grab handles during the trip. V00635-10 6.18
Passenger foot pegs The passenger foot pegs can be folded up and down. Possible states Passenger foot pegs folded up -... 6 CONTROLS 6.19 Shift lever is mounted on the left side of the engine. 401950-10 The gear positions can be seen in the photograph. The neutral or idle position is between the first and second gears. 401950-11... CONTROLS 6.20 Foot brake lever foot brake lever is located in front of the right footrest. The foot brake lever is used to activate the rear brake. 402177-10 6.21 Side stand folded in - This position is mandatory
when riding • the motorcycle. The safety starting system is inactive. COMBINATION INSTRUMENT 7 Combination 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 When the ignition is switched on, all indicator lamp and immobilizer indicator lamp. (taking care not to endanged
yourself or other road users in the process) and contact an authorized KTM workshop. The ABS warning lamp lights up so long as a speed of approx. 6 km/h (approx. 4 mph) or more has been reached. Page 46 7 COMBINATION INSTRUMENT If an error has occurred in the CAN bus, various warnings appear on the display: CAN FAILURE, CAN ABS
FAILURE and CAN EMS FAILURE can appear. F01437-01 Transport Lock appears on the display if transport mode is acti- vated. Page 47 COMBINATION INSTRUMENT 7 Kill Switch appears on the display if the emergency off switch is pressed. Not Legal! appears on the display if the approval for road use is invalidated by modifications. F01438-02
ABS Failure appears on the display if the ABS is no longer active. Clutch Switch Failure appears on the display if the oil pressure is too low. Low Battery appears on the display if the battery voltage falls below the specified value. 

10.5 V
Battery voltage F01438-04 Coolant Sensor Failure appears on the display if the fuel level sensor Failure appears on the display if the fuel level reaches the reserve mark. F01438-05... (taking care
not to endanger yourself or other road users in the process) and contact an authorized KTM workshop. The ABS warning lamp lights up so long as a speed of approx. 6 km/h (approx. 4 mph) or more has been reached. Page 51 COMBINATION INSTRUMENT 7 Malfunction indicator lamp lights up yellow - The OBD has detected an error in the vehicle
electronics. Come safely to a halt, and contact an authorized KTM workshop. The shift warning light sup/flashes red when the set shift warning light sup/flashes red warning light s
configured in the Trip 1 display and Trip 2 display by keeping the MODE button pressed. The shift warning light is always active during the running-in phase (up to 1,000 km / 621 miles). Page 53 COMBINATION INSTRUMENT 7 Coolant temperature > 35 °C (> 95 °F) > 1,000 km (> 620 mi) RPM1 shift warning flashes light RPM2 shift warning lights
up light... 7 COMBINATION INSTRUMENT Display The tachometer shows the engaged gear. is shown in kilometers per minute. The gear display shows the engaged gear. is shown in kilometers per minute. The gear display shows the engaged gear. is shown in kilometers per minute. The gear display shows the engaged gear. is shown in kilometers per minute. The gear display shows the engaged gear.
contents are shown in area of the display. The fuel level indicator consists of bars. The more bars are lit, the more fuel is in the fuel level indicator the coolant temperature display is shown in segment
of the display. The coolant temperature indicator consists of bars. The more bars that light up, the hotter the coolant. Note Engine hot - Eleven to thirteen bars light up. • Engine very hot - All thirteen bars light up. • Function buttons Press the MODE button to
change display modes. Possible display modes are TRIP F (after reaching the fuel reserve level), Info, total distance 1 (TRIP 1) and distance 2 (TRIP 2). 7 COMBINATION INSTRUMENT 7.10 TRIP F display - Press the MODE button briefly and repeatedly until TRIP F appears on the display. TRIP F shows the distance traveled
since the fuel reserve level was reached. Info When the fuel level reaches the reserve mark, the warn- ing Low Fuel Level appears on the display. COMBINATION INSTRUMENT 7 7.11 Info display. Info shows messages or warnings that have occurred. Info The Info
display is only shown if a message or warning is pending. 7 COMBINATION INSTRUMENT 7.12 ODO display Press the MODE button briefly and repeatedly until ODO appears in the display. Info ODO shows the total distance covered. This value is retained, even if the 12-V battery is discon- nected from the vehicle or the fuse blows. Press the SET
button briefly to change to the next menu in the display. COMBINATION INSTRUMENT 7 Info The range depends on the average fuel consumption and the fuel quantity in the fuel tank. The range is displayed after several 100 meters of travel after the ignition is switched on. Press the Next menu on the display SET button briefly. 7 COMBINATION
INSTRUMENT Press the Next display mode in the display MODE button briefly and repeatedly until the desired menu appears. COMBINATION INSTRUMENT 7 7.13 TRIP 1 display Press the MODE button briefly and
repeatedly until TRIP 1 appears in the display. Info TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT Press the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT Press the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT Press the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT Press the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT Press the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT Press the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT Press the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT Press the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT Press the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT Press the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT Press the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT Press the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT Press the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT PRESS the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT PRESS the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT PRESS the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT PRESS the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT PRESS the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT PRESS the Display of TRIP 1 is always running and counts up to 9999.9. 7 COMBINATION INSTRUMENT PRESS the Display of TRIP 1 is always running and counts are always running and counts are alw
7.13.2 Average Speed Trip1 - Press the MODE button briefly and repeatedly until TRIP 1 appears on the display. - Press the MODE button briefly and repeatedly until the desired menu appears. Average fuel
consumption 1 based on TRIP 1 is shown in this menu. 7 COMBINATION INSTRUMENT 7.14 TRIP 2 display Press the MODE button briefly and repeatedly until TRIP 2 shows the distance since the last reset, such as between two refueling stops. TRIP 2 is always running and counts up to 9999.9. COMBINATION
INSTRUMENT 7 Press the Display of TRIP 2 is reset SET button for 3 seconds. Press the MODE button briefly and repeatedly until TRIP 2 appears on the display. 7 COMBINATION INSTRUMENT 7.14.3 Avg F.C. Trip 2 - Press the MODE button briefly and
repeatedly until TRIP 2 appears on the display. - Press the SET button briefly and repeatedly until the desired menu appears. Average fuel consumption 2 based on TRIP 2 is shown in this menu. Page 69 COMBINATION INSTRUMENT 7 Condition The motorcycle is stationary. - Press the MODE button briefly and repeatedly until ODO appears on the
display. - Press the MODE button for 5 seconds. The units display appears. Info The units display is shown on the ODO display for each menu by keeping the MODE button pressed. 7 COMBINATION INSTRUMENT 7.16 Setting the clock Info The time is displayed in 24-hour format. The time must be reset if the 12-V battery was disconnected from the
vehicle or the fuse was removed. Condition The motorcycle is stationary. - Press the MODE button briefly and repeatedly until ODO appears on the display. COMBINATION INSTRUMENT 7 7.17 Adjusting the shift speed RPM1 Condition The motorcycle is stationary. ODO > 1000 km (621 mi). - Press the MODE button briefly and repeatedly until TRIP
1 appears on the display. - Press the MODE button for 5 seconds. The RPM1 display appears. 7 COMBINATION INSTRUMENT The RPM1 display disappears and the set shift speed RPM2 Condition The motorcycle is stationary. ODO > 1000 km (621 mi). - Press the MODE button briefly and
repeatedly until TRIP 2 appears on the display. Page 73 COMBINATION INSTRUMENT 7 Info The MODE button increases the value. - Press the MODE button simultaneously. The RPM2 display disappears and the set shift speed RPM2 is adopted and saved. 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 character- istic. - Only use tires/wheels approved by KTM with the corresponding speed index. Page 75 When using the vehicle, remember that others may feel disturbed by excessive noise. -
Ensure that the pre-sales inspection work has been carried out by an authorized KTM workshop. The delivery certificate and the Service and Manufacturer Warranty booklet must be transferred with the vehicle. 8 PREPARING FOR USE Running in the engine - During the running-in phase, do not exceed the specified engine speed. Guideline
Maximum engine speed During the first: 1,000 km (620 mi) 7,500 rpm Info During the running-in phase, the shift warning light is set to a specified value and cannot be changed. -... Page 77 PREPARING FOR USE 8 Warning Danger of accidents Improper mounting of cases or the tank rucksack impairs the handling characteris- tic. - Mount and
secure cases and tank rucksack according to the manufacturer's instructions. Warning Danger of accidents The luggage system will be damaged if it is overloaded. -... Page 78 8 PREPARING FOR USE - 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 overall weight 335 kg (739 lb.) RIDING INSTRUCTIONS 9 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. -... 9 RIDING INSTRUCTIONS Starting Danger Danger of poisoning 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 dis- charged or missing. Page 81 RIDING INSTRUCTIONS 9 - Unlock the steering. (p. 32) - Sit on the vehicle, take the weight off of the side stand, and move it all the way up with your foot. - Turn
the emergency OFF switch to the position -... 9 RIDING INSTRUCTIONS Info Do not press the electric starter button until the combination instrument function check is finished. When starting procedure, fuel is not injected by the engine management system and the engine
cannot start. RIDING INSTRUCTIONS 9 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. Page 84 9 RIDING INSTRUCTIONS Warning Risk of injury The passenger may fall from the motorcycle if they conduct themselves incorrectly on the passenger seat, places his or her feet on the passenger foot pegs and holds on to the rider or the grab handles. -... Page 85
Check and, if necessary, correct the coolant level on the cooling system while it is in a cooled state. Info If unusual noises occur while riding, stop immediately (taking care not to endanger yourself or other road users in the process), switch off the engine and contact an authorized KTM workshop. Page 86 9 RIDING INSTRUCTIONS - Shift into a
higher gear when conditions allow (incline, road situation, etc.). - Release throttle while simultaneously pulling the clutch lever, shift into the next gear, release the clutch lever, shift into the next gear positions can be seen in the figure. The neu- tral or idle position is between the first and second 401950-11 gears. 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. Page 88 9 RIDING INSTRUCTIONS Warning Danger of accidents.
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. -... RIDING INSTRUCTIONS 9 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. -... Page 90 9 RIDING INSTRUCTIONS 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. -... RIDING INSTRUCTIONS 9 Info If the engine is switched off with the emergency OFF switch and the ignition remains switched on at the ignition lock, power continues to flow to most power
consumers and the 12-V battery will dis- charge. You should therefore always switch off the engine with the ignition lock - the emergency OFF switch is intended for emergency of the engine and remove the ignition key. - Use tension belts or other suitable devices to secure the motorcycle against accidents
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. Page 94 9 RIDING INSTRUCTIONS - Switch off the environmental hazard Improper handling of fuel is a danger to the environmental hazard.
tank 10 l Super unleaded capacity, approx. Different 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. Page 96 10 SERVICE SCHEDULE every 12 months every 12 months every 15,000 km (4,650 mi) after 1,000 km (620 mi) after 1,000 km (620 mi) after 1,000 km (620 mi) after 1,000 km (9,300 mi) every 7,500 km (4,650 mi) after 1,000 km (620 mi) after 1,000 km (620 mi) after 1,000 km (9,300 mi) every 7,500 km (9,300 mi) every 7,500 km (4,650 mi) after 1,000 km (620 mi) after 1,
memory after the test ride using the KTM diagnostics tool. \bigcirc • • Reset the service interval display. 10 SERVICE SCHEDULE 10.3 Recommended work every 48 months every 48 months every 48 months every 12 months every 48 months every 48 months every 48 months every 12 months every 12 months every 48 mont
play. ... TUNING THE CHASSIS 11 11.1 Adjusting the spring preload of the shock absorber Warning Danger of accidents Modifications to the suspension setting may seriously alter the handling characteristic. Info The spring preload defines the
initial status of the spring operation on the shock absorber. 11 TUNING THE CHASSIS 11.2 Adjustment range of the shift lever is limited. - Loosen nut, holding threaded rod Info has a left-handed thread. - Loosen nut, holding threaded rod Info has a left-handed thread. - Loosen nut, holding threaded rod Info has a left-handed thread. - Loosen nut, holding threaded rod Info has a left-handed thread. - Loosen nut, holding threaded rod Info has a left-handed thread. - Loosen nut, holding threaded rod Info has a left-handed thread. - Loosen nut, holding threaded rod Info has a left-handed thread. - Loosen nut, holding threaded rod Info has a left-handed thread. - Loosen nut, holding threaded rod Info has a left-handed thread. - Loosen nut, holding threaded rod Info has a left-handed thread. - Loosen nut, holding threaded rod Info has a left-handed thread. - Loosen nut, holding threaded rod Info has a left-handed thread. - Loosen nut, holding threaded rod Info has a left-handed thread. - Loosen nut, holding threaded rod Info has a left-handed thread. - Loosen nut, holding threaded rod Info has a left-handed thread. - Loosen nut, holding threaded rod Info has a left-handed thread. - Loosen nut, holding threaded rod Info has a left-handed thread. - Loosen nut, holding threaded rod Info has a left-handed thread rod Info
150 ...... Page 101 TUNING THE CHASSIS 11 Guideline 75° Adjusting angle shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod M6LH 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) 12 SERVICE WORK ON THE CHASSIS 12.1 Raising the motorcycle work on the motorcycle work of the motorcycle work on the chasting threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, shift rod 10 Nm (7.4 lbf ft) - Tighten nut while holding threaded rod Guideline Nut, s
with rear lifting gear Note Danger of damage The parked vehicle on a firm and level surface. - Mount the supports of the lifting gear and lean the vehicle on side stand - Remove bushings
kit. 402029-10 12.3 Lifting the motorcycle with the front lifting gear Note Danger of damage The parked vehicle can roll away or fall over. Page 104 12 SERVICE WORK ON THE CHASSIS Condition - Remove protection cap V00638-10 - Move the handlebar to the straight-ahead position. Position the lifting gear. Mounting pin (69329965030) Front
wheel work stand, large (69329965100) Info Always raise the motorcycle at the rear first. -... SERVICE WORK ON THE CHASSIS 12 12.4 Taking the motorcycle off the front lifting gear Note Danger of damage The parked vehicle can roll away or fall over. - Park the vehicle on a firm and level surface. Main work - Secure the motorcycle against
falling over. 12 SERVICE WORK ON THE CHASSIS - Mount protection cap V00638-10 Finishing work - Remove the rear of the motorcycle from the lifting gear. p. 100) 12.5 Cleaning the dust boots of the fork legs Preparatory work - Push
dust boots of both fork legs downward. Info The dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If this dirt is not removed, the oil seals behind the dust boots. If the dust boots are discounted to the direct behind the dust believe the direct behind the dust believe the dust belie
12.6 Removing the front rider's seat - Insert the ignition key in seat lock and turn it clockwise. - Raise the rear of the front rider's seat, pull it toward the rear, and remove it upward. SERVICE WORK ON THE CHASSIS 12 12.7 Mounting the front rider's seat of the front rider's seat to the fuel tank, push the front rider's seat forward.
and lower at the rear. The pin locks audibly in place. -... 12 SERVICE WORK ON THE CHASSIS Main work - Remove screw with washer. - Lift and take off the passenger seat. Wo0639-10 12.9 Mounting the passenger seat and push back.
Page 111 SERVICE WORK ON THE CHASSIS 12 - Mount and tighten screw with the washer. Guideline Screw, passenger 7 Nm (5.2 lbf ft) seat Warning Danger of accidents The seat can come loose from the anchoring if it is not mounted correctly. V00639-11 -... 12 SERVICE WORK ON THE CHASSIS 12.10 Checking for chain dirt accumulation
Check the chain for coarse dirt accumulation. » If the chain is very dirty: - Clean the chain (p. 110) 400678-01 12.11 Cleaning the chain Warning Danger of accidents Lubricants on the tires reduces the road grip. Page 113 SERVICE WORK ON THE CHASSIS 12 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 -... 12 SERVICE WORK ON THE CHASSIS 12.12 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 is tensioned to much at the chain is tensioned to much at the chain is tensioned to much at the chain is the chain is
CHASSIS 12 Main work - Shift the transmission to neutral position. - In the area after the chain sliding guard, press the chain tension Warning Danger of accidents Incorrect chain tension ward toward the link fork and measure chain tension Warning Danger of accidents.
damages components and results in accidents. If the chain is tensioned too much, the chain is tensioned to much at the chain is the 
CHASSIS 12 Main work - Loosen nut - Loosen n
the rear of the motorcycle from the lifting gear. p. 100) 12.14 Checking the chain, rear sprocket, and engine sprocket Preparatory work - Raise the motorcycle with the specified weight Guideline Weight, chain wear measure- 15 kg (33 lb.)
ment - Measure distance of 20 chain rollers in the lower chain section. Info Chain wear is not always even, so you should repeat this measurement at different chain guide. - Check the chain sliding guard for wear. » If the chain sliding guard has lost
material due to wear to the extent that, in area, the drilled hole of screw visible from above: -... Page 121 SERVICE WORK ON THE CHASSIS 12.16 Mounting the battery cover Main work - Position
battery cover and pull toward the rear. The battery cover engages with an audible click. - Check the battery cover is seated correctly. V00643-10 Finishing work -... SERVICE WORK ON THE CHASSIS 12 12.17 Removing the front spoiler - Pull off holding lug in area V00680-10 - Remove screws V00677-10... 12 SERVICE WORK ON THE CHASSIS 12 12.17 Removing the front spoiler - Pull off holding lug in area V00680-10 - Remove screws V00677-10... 12 SERVICE WORK ON THE CHASSIS 12 12.17 Removing the front spoiler - Pull off holding lug in area V00680-10 - Remove screws V00677-10... 12 SERVICE WORK ON THE CHASSIS 12 12.17 Removing the front spoiler - Pull off holding lug in area V00680-10 - Remove screws V00677-10... 12 SERVICE WORK ON THE CHASSIS 12 12.17 Removing the front spoiler - Pull off holding lug in area V00680-10 - Remove screws V00677-10... 12 SERVICE WORK ON THE CHASSIS 12 12.17 Removing the front spoiler - Pull off holding lug in area V00680-10 - Remove screws V00677-10... 12 SERVICE WORK ON THE CHASSIS 12 12.17 Removing the front spoiler - Pull off holding lug in area V00680-10 - Remove screws V00677-10... 12 SERVICE WORK ON THE CHASSIS 12 12.17 Removing the front spoiler - Pull off holding lug in area V00680-10 - Remove screws V00677-10... 12 SERVICE WORK ON THE CHASSIS 12 12.17 Removing the front spoiler - Pull off holding lug in area V00680-10 - Remove screws V00677-10... 12 SERVICE WORK ON THE CHASSIS 12 12.17 Removing the front spoiler - Pull off holding lug in area V00680-10 - Remove screws V00677-10... 12 SERVICE WORK ON THE CHASSIS 12 12.17 Removing the front spoiler - Pull off holding lug in area V00680-10 - Remove screws V00677-10... 12 SERVICE WORK ON THE CHASSIS 12 12.17 Removing the front spoiler - Pull off holding lug in area V00680-10 - Remove screws V00680-10 - Remove
 Remove screws - Take off the front spoiler. V00681-11 12.18 Fitting front spoiler - Position the front spoiler - Mount and tighten screws Guideline Screw, front spoiler 7 Nm (5.2 lbf ft) V00677-11 - Press
ON THE CHASSIS 12 - Swing the side cover outward. - Pull hose out of hose guide - Take off the side cover. V00653-10 12.20 Installing the left side cover. - Mount and tighten screws Guideline Screw, side cover 6 Nm (4.4 lbf ft) -
Push on the side cover in area The holding lug engages in the drilled hole on the front spoiler. SERVICE WORK ON THE CHASSIS 12 12.21 Removing the right side cover - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in area V00650-10 - Remove screws - Pull off holding lug in 
12.22 Installing the right side cover - Position the side cover - Position the side cover on the brake system which have been
approved and recommended by KTM. - Only use tires/wheels approved by KTM with the corre- sponding speed index. - Maintain specified tire pressure. -... Page 132 13 BRAKE SYSTEM 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 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... 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.) If the
brake fluid level drops below the MIN marking, the brake system and do not continue riding until the problem is eliminated. (Your authorized KTM workshop will be glad to help.) Page 136 Danger of accidents Old brake fluid reduces the brake system and do not continue riding until the problem is eliminated.
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. Page 137 BRAKE SYSTEM 13 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 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. KTM workshop will be glad to help.) Warning Danger of accidents  Old brake fluid reduces the braking effect.
 schedule. (Your authorized KTM workshop will be glad to help.) If the brake fluid level drops below the MIN marking, the brake system and do not continue riding until the problem is eliminated. (Your authorized KTM workshop will be glad to help.) Page 141 Danger of
                  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. Page 142 13 BRAKE SYSTEM Info Avoid contact
between brake fluid and painted parts. Brake fluid attacks paint. Only use clean brake fluid from a sealed container. Preparatory work - Check the rear brake fluid attacks paint. Only use clean brake fluid trom a sealed container. Preparatory work - Check the rear brake fluid attacks paint.
 Brake fluid DOT 4 / DOT 5.1 (p. 237) - Mount screw cap with membrane. Info Clean up overflowed or spilled brake fluid immediately V00658-10 with water. Checking the rear 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. BRAKE SYSTEM 13 13.9 Checking the free travel on the foot brake lever, pressure builds up in the brake
system on the rear brake. Page 146 13 BRAKE SYSTEM - Disconnect spring - Move the foot brake lever 3 ... 5 mm (0.12 ... 0.2 in) »... BRAKE SYSTEM 13 13.10 Adjusting the free travel of the foot brake
lever Warning Danger of accidents The brake system on the rear brake system on the event of overheating. If there is no free travel on the foot brake lever, pressure builds up in the brake system on the rear brake. Page 148 13 BRAKE SYSTEM - Detach spring - Release nut and use screw to adjust the specified free travel Guideline Free travel at foot brake lever 3 ... 5
mm (0.12 ... 0.2 in) Info The range of adjustment is limited. -... WHEELS, TIRES 14 14.1 Removing the front wheel Preparatory work - Raise the motorcycle with the rear lifting gear. (p. 101) Main work - Remove screws, take off reflector and push the fender to the side. 14 WHEELS, TIRES
Info Do not actuate the hand brake lever when the front wheel is removed. 14.2 Installing the front wheel warning Danger of accidents Oil or grease on the brake discs free of oil and grease on the brake discs free of oil and grease on the brake discs free of oil and grease. -... Page 151 WHEELS, TIRES 14 - Clean the thread of the wheel spindle and screw - Grease wheel
spindle. Long-life grease (p. 241) - Position the front wheel and insert the wheel spindle. The brake linings are correctly positioned. - Mount and tighten screw Guideline Screw, front wheel 26 Nm (19.2 lbf ft) 14 WHEELS, TIRES - Operate the front brake and compress the fork a few times firmly. The fork legs straighten. - Tighten screws Guideline Screws Guideli
Screw, fork stub 15 Nm (11.1 lbf ft) 14.3 Removing the rear wheel Preparatory work - Raise the motorcycle with the rear lifting gear. Page 153 WHEELS, TIRES 14 - Remove nut and washer. - Take off chain adjuster - Holding the rear wheel, withdraw wheel spindle with the washer and
chain adjuster - Push the rear wheel forward as far as possible and take the chain off the rear sprocket. 14 WHEELS, TIRES 14.4 Installing the rear wheel Warning Danger of accidents Oil or grease on the brake discs reduces 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 wheel. Page 155 WHEELS, TIRES 14 - Clean and grease wheel spindle. Long-life grease (p. 241) - Clean the contact areas on the brake caliper bracket and link fork. - Position the rear wheel. The brake linings are correctly
positioned. - Push chain guard to the side. -... Page 156 14 WHEELS, TIRES - Pull the rear wheel back and mount wheel spindle with the washers and chain adjusters in the same position. - Mount nut, but do not tighten it yet. -... WHEELS, TIRES 14 - Position the chain guard. - Mount and tighten screw
Guideline Screw, chain guard 6 Nm (4.4 lbf ft) - Mount and tighten screw Guideline Screw, chain guard EJOT PT ® 4 Nm (3 lbf ft) K60x30 E00641-11 Finishing work -... Page 158 14 WHEELS, TIRES Main work - Check bearing is damaged or worn: - Change the rear wheel bearing is damaged or worn: - Change the rear wheel bearing rubber pieces of the rear hub for
damage and wear. » If the damping rubber pieces of the rear hub are damaged or worn: E00734-10 -... 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 character- istic. - Only use tires/wheels approved by KTM with the corresponding speed index. Info The type, condition, and pressure of the tires all
have a major impact on the handling characteristic of the motorcycle. DOT number. The first two digits indicate the week of manu-facture and the last two digits the year of manu- facture. KTM recommends that the tires be changed after 5 H01144-10 years at the latest, regardless of the actual state of wear. Page 162 14 WHEELS, TIRES - Remove
the protection cap. - Check the tire pressure when the tires are cold. Tire pressure when solo front 2.0 bar (29 psi) Tire pressure with passenger / full payload front 2.0 bar (29 psi) 400695-01 rear... ELECTRICAL SYSTEM 15 15.1 Removing 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. Page 164 15 ELECTRICAL SYSTEM Main work - Disconnect positive cable from the 12-V batteries out of the reach of children.
the 12-V battery. - Detach rubber strap - Pull the 12-V battery upwards and out of the battery compartment. - Position the 12-V battery in the battery compartment. Guideline The terminals of the battery must face upwards. 12-V
battery (ETZ-9-BS) (p. 15 ELECTRICAL SYSTEM - Set the clock. (p. 68) 15.3 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. -... Page 167 ELECTRICAL SYSTEM 15 Info Even if
there is no load on the 12-V battery, it discharges steadily. The charging level and the method of charging current shortens the service life of the battery. If the charging current, charging time is exceeded, electrolyte escapes through the charging current shortens the service life of the battery. If the charging current shortens the service life of the 12-V battery, it discharges steadily. The charging current shortens the service life of the 12-V battery.
the safety valves. Page 168 15 ELECTRICAL SYSTEM Main work - Connect the battery charger to the 12-V battery charg
clock. (p. 68) 15.4 Changing the ABS fuses Warning Fire hazard Incorrect fuses overload the electrical system. - Only use fuses with the required ampere value. - Do not bypass or repair fuses. Info Two fuses for the ABS are located under the protection cap next to the negative terminal of the 12-V bat- tery. Page 170 15 ELECTRICAL SYSTEM To
change the fuse of the ABS hydraulic unit: - Take off the protection cap and remove fuse Info A faulty fuse has a burned-out fuse wire Warning Fire hazard Incorrect fuses overload the electrical V00665-10 system. - Only use fuses with the required ampere value. Page 171 ELECTRICAL SYSTEM 15 To change the fuse of the ABS return pump: - Take
off the protection cap and remove fuse Info A faulty fuse has a burned-out fuse wire Warning Fire hazard Incorrect fuses overload the electrical V00665-11 system. - Only use fuses with the required ampere value. 15 ELECTRICAL SYSTEM 15.5 Changing the fuses of individual power consumers Info The fuse box with the main fuse and fuses of the
individual power consumers is located next to the posi- tive terminal of the 12-V battery. Preparatory work -... Page 173 ELECTRICAL SYSTEM 15 Guideline Fuse 1 - 30 A - main fuse Fuse 2 - 10 A - combination instrument, alarm system (optional) Fuse 3 - 10 A - engine electronics control unit, power relay Fuse 4 - 15 A - ignition coil, starter relay, fuel
pump, horn Fuse 5 - 15 A - radiator fan Fuse 6 - 10 A - brake light, turn signal, high beam, low beam, position light, tail light, license plate lamp... Page 174 15 ELECTRICAL SYSTEM Warning Fire hazard Incorrect fuses overload the electrical sys- tem. - Only use fuses with the required ampere value. - Do not bypass or repair fuses. - Insert a spare
fuse with the correct rating. Fuse (75011088010) (p. ELECTRICAL SYSTEM 15 15.6 Changing the low beam bulb Note Damage to reflector reduces the bulbs before mounting. -... Page 176 15
ELECTRICAL SYSTEM Main work - Turn socket with the low beam bulb from connect the socket with the low beam bulb to the connect the socket with the low beam bulb in the socket with the socket with the low beam bulb in the socket with 
the headlight housing. - Turn the socket clockwise. - Check that the lighting is functioning properly. V00689-10 Finishing work - Check the low beam headlight setting. (p. Page 178 15 ELECTRICAL SYSTEM Main work - Turn socket counterclockwise. - Pull the socket with high beam bulb out of the headlight housing. - Disconnect the socket with
the high beam bulb from connec- and remove. - Connect the new socket with the high beam bulb to the con- nector. ELECTRICAL SYSTEM 15 - Position the socket clockwise. - Check that the lighting is functioning properly. V00687-10 Finishing work - Check the high beam
headlight setting. (p. Page 180 15 ELECTRICAL SYSTEM Guideline 5 m (16 ft) Distance - The rider now mounts the motorcycle with luggage and passen-ger if applicable. - Check the low beam headlight setting. The light-dark boundary must be exactly on the lower mark-ing when the motorcycle is ready to be operated with the rider mounted along
 with any luggage and a passenger if applicable. ELECTRICAL SYSTEM 15.10 Adjusting the high beam headlight adjustment - Position the vehicle upright on a horizontal surface in front of a light wall and make a marking at the headlight range of the
low beam Main work - Adjust the low beam headlight range by turning screw Guideline For a motorcycle with a rider, and any luggage and/or pas- senger, the light/dark boundary must be exactly on the lower marking (applied in: Checking the low beam headlight set- ting). ELECTRICAL SYSTEM 15 15.11 Adjusting the headlight range of the high
beam Main work - Adjust the high beam headlight range by turning screw Guideline For a motorcycle with rider, and with luggage and a passen- ger if applicable, the light/dark boundary must be exactly on the lower marking (applied in: Checking the high beam headlight setting). 15 ELECTRICAL SYSTEM 15.12 Diagnostics connector Diagnostics
connector is located under the front rider's seat. H01911-10 15.13 Front ACC1 and ACC2 Installation location - Power supplies ACC1 and ACC2 front are located under the compensating tank. Info The power supplies are protected by a fuse, however this fuse also protects other power consumers. COOLING SYSTEM 16 16.1 Cooling system Water
pump in the engine ensures forced circulation of the coolant. The pressure resulting from the warming of the coolant to flow into compensating tank a radiator cap. Heat expansion causes excess coolant to flow into compensating tank are the cooling system is regulated by a valve in radiator cap. Heat expansion causes excess coolant to flow into compensating tank.
 high temperature. The lower the speed, the less the cooling effect. Dirty cooling fins also reduce the cooling effect. Info If the cooling system overheats, the maximum engine speed is limited. COOLING SYSTEM 16 16.2 Checking the cooling system overheats, the maximum engine speed is limited. COOLING SYSTEM 16 16.2 Checking the cooling effect. Info If the cooling system overheats, the maximum engine speed is limited. COOLING SYSTEM 16 16.2 Checking the cooling effect. Info If the cooling effect. Info If the cooling system overheats, the maximum engine speed is limited. COOLING SYSTEM 16 16.2 Checking the cooling effect. Info If the cooling
between MIN and MAX. » If there is no coolant in the compensating tank: -... COOLING SYSTEM 16 16.3 Checking the antifreeze and 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. Page 190 16 COOLING SYSTEM Main work - Stand the motorcycle upright on a horizontal surface. - Take off the cap of compensating tank - Check the antifreeze in the coolant. -25 ... -45 °C (-13 ... -49 °F) » If the antifreeze in the coolant does not match the speci- fied value: -... Page 191
COOLING SYSTEM 16 - Take off radiator cap - Check the antifreeze in the coolant. -25 ... -45 °C (-13 ... -49 °F) » If the antifreeze in the coolant does not match the speci- fied value: - Correct the antifreeze in the coolant. -25 ... -45 °C (-13 ... -49 °F) » If the antifreeze in the coolant does not match the speci- fied value: - Correct the antifreeze in the coolant. -25 ... -45 °C (-13 ... -49 °F) » If the antifreeze in the coolant does not match the speci- fied value: - Correct the antifreeze in the coolant. -25 ... -45 °C (-13 ... -49 °F) » If the antifreeze in the coolant does not match the speci- fied value: - Correct the antifreeze in the coolant. -25 ... -45 °C (-13 ... -49 °F) » If the antifreeze in the coolant does not match the speci- fied value: - Correct the antifreeze in the coolant. -25 ... -45 °C (-13 ... -49 °F) » If the antifreeze in the coolant does not match the speci- fied value: - Correct the antifreeze in the coolant. -25 ... -45 °C (-13 ... -49 °F) » If the antifreeze in the coolant does not match the speci- fied value: - Correct the antifreeze in the coolant. -25 ... -45 °C (-13 ... -49 °F) » If the antifreeze in the coolant does not match the speci- fied value: - Correct the antifreeze in the coolant. -25 ... -45 °C (-13 ... -49 °F) » If the antifreeze in the coolant does not match the speci- fied value: - Correct the antifreeze in the coolant does not match the speci- fied value: - Correct the antifreeze in the coolant does not match the speci- fied value: - Correct the antifreeze in the coolant does not match the speci- fied value: - Correct the antifreeze in the coolant does not match the speci- fied value: - Correct the antifreeze in the coolant does not match the speci- fied value: - Correct the antifreeze in the coolant does not match the speci- fied value: - Correct the antifreeze in the coolant does not match the coo
 motorcycle operation, the coolant gets very hot and is under pressure. - Do not open the radiator, the radiator hoses or other cooling system are at operating temperature. COOLING SYSTEM 16 Main work - Remove cap of the compensating tank. - Add coolant up to the MAX marking. Coolant (p. 237)
Mount the cap of the compensating tank. V00668-11 16.5 Draining the coolant Warning Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure. -... Page 194 16 COOLING SYSTEM Warning Danger of poisoning Coolant gets very hot and is under pressure. -... Page 194 16 COOLING SYSTEM Warning Danger of poisoning Coolant gets very hot and is under pressure. -... Page 194 16 COOLING SYSTEM Warning Danger of poisoning Coolant gets very hot and is under pressure. -... Page 194 16 COOLING SYSTEM Warning Danger of poisoning Coolant gets very hot and is under pressure. -... Page 194 16 COOLING SYSTEM Warning Danger of poisoning Coolant gets very hot and is under pressure. -... Page 194 16 COOLING SYSTEM Warning Danger of poisoning Coolant gets very hot and is under pressure.
coolant to come into contact with the skin, the eyes and clothing. - Consult a doctor immediately if coolant is swallowed. -... COOLING SYSTEM 16 Main work - Position the motorcycle upright. - Place an appropriate container under the engine. - Remove screw - Take off the radiator cap. - Completely drain the coolant. - Mount and tighten screw
with a new seal ring. Guideline V00683-10 Screw plug, water... Page 196 16 COOLING SYSTEM Main work - Remove radiator cap V00669-10 - Loosen bleeder screw, and then mount and tighten the bleeder screw immediator cap V00669-10 - Loosen bleeder screw, and then mount and tighten the bleeder screw immediator cap V00669-10 - Loosen bleeder screw, and then mount and tighten the bleeder screw immediator cap V00669-10 - Loosen bleeder screw, and then mount and tighten the bleeder screw immediator cap V00669-10 - Loosen bleeder screw, and then mount and tighten the bleeder screw immediator cap V00669-10 - Loosen bleeder screw immediator cap V00669-10 - Loosen bleeder screw, and then mount and tighten the bleeder screw immediator cap V00669-10 - Loosen bleeder screw immediator cap V00669-10 - Loos
ately. Page 197 COOLING SYSTEM 16 Danger Danger of poisoning Exhaust gases are toxic and inhal- ing 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. 16 COOLING SYSTEM 16.7
Changing the coolant Warning Danger of scalding During motorcycle operation, the cooling system are at operation, the cooling system are at operation of the cooling system are at operation, the cooling system are at operation, the radiator hoses or other cooling system are at operation, the cooling system are at operation, the radiator hoses or other cooling system are at operation of the cooling system are at operation, the radiator hoses or other cooling system are at operation of the cooling system are at operation o
Remove the front spoiler. (p. 121) Main work - Position the motorcycle upright. - Place an appropriate container under the engine. - Remove screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen bleeder screw V00683-10 - Remove radiator cap -... Page 200 16 COOLING SYSTEM - Loosen 
bubbles at the bleeder screw, and then mount and tighten the bleeder screw immediately. Page 201 COOLING SYSTEM 16 - Stop the engine and allow it to cool down. - When the engine is cool, check the coolant level up to the MAX
marking. 17 TUNING THE ENGINE 17.1 Checking throttle cable play - Check the throttle grip for smooth operation. - Move the handlebar to the straight-ahead position. Turn the throttle grip back and forth slightly and determine the play in throttle cable 3 ...... TUNING THE ENGINE 17.17.2 Adjusting throttle cable play - Move the handlebar to the
straight-ahead position. - Push back sleeve - Loosen lock nut - Adjust the throttle cable play 3 ... 5 mm (0.12 ... 0.2 in) -... Page 204 17 TUNING THE ENGINE - Check the clutch lever until resistance is
perceptible, and deter- mine the play in the clutch lever 1 ... 3 mm (0.04 ... Clutch lever play 0.12 in) »... TUNING THE ENGINE 17 17.4 Adjusting play in the clutch lever by turning adjusting screw Guideline 1 ..... 18
SERVICE WORK ON THE ENGINE 18.1 Checking the engine oil level. Engine oil level. Info After switching off the engine, wait one minute before checking the level. SERVICE WORK ON THE ENGINE 18.1
18.2 Changing the engine oil and oil filter, cleaning the engine and gear oil get very hot when the motorcycle is ridden. - Wear suitable protective clothing and safety gloves. -... Page 208 18 SERVICE WORK ON THE ENGINE Main work - Place an appropriate container under the engine. - Remove oil drain
plug with the O-ring. - Remove oil screen with the O-ring. - Remove oil screen thoroughly. -... Page 209 SERVICE WORK ON THE ENGINE 18 - Insert new oil filter cover. Mount oil filter cover.
(7.4 lbf ft) Info Too little engine oil or poor-quality engine oil will result V00676-10 in premature wear of the engine. 18 SERVICE WORK ON THE ENGINE Danger Danger of poisoning Exhaust gases are toxic and inhal- ing 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. Page 211 SERVICE WORK ON THE ENGINE 18 Main work - Remove the oil filler plug with the O-ring from the clutch cover and fill up with engine oil (SAE 15W/50) (p. 238) Engine oil (SAE 10W/40) (p. 239) Info For optimal performance of the
engine oil, do not mix 401955-10... 19 CLEANING, CARE 19.1 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. -... Page 213 CLEANING, CARE 19 - Close off the exhaust system to keep water from entering. - Remove loose dirt first with a soft brush. Motorcycle cleaner (p. Page 214 19 CLEANING,
CARE - After cleaning, ride the vehicle a short distance until the engine warms up. Info The heat produced causes water at inaccessible loca- tions in the engine and on the brake system to evaporate. CLEANING, CARE 19 - Treat all 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. 242) - Lubricate the ignition and steering lock. Universal oil spray (p. Page 216 19 CLEANING, CARE - Clean the motorcycle. (p. 210) - Clean the brakes. Info After EVERY trip on salted roads, thoroughly
clean the motorcycle and, in particular, the brake calipers and brake linings, after they have cooled down and without removing the motorcycle for a longer period, perform the following steps or have them per- formed. 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). Page 218 - Store vehicle in a dry location that is not subject to large fluc- tuations in temperature. Info KTM recommends jacking up the motorcycle. - Raise the motorcycle with the rear lifting gear
(p. 100) - Lift the motorcycle with the front lifting gear. (p. 5TORAGE 20 20.2 Preparing for use after storage - Take the motorcycle from the lifting gear. (p. 103) - Remove the rear of the motorcycle from the lifting gear. (p. 103) - Remove the rear of the motorcycle from the lifting gear. (p. 103) - Install the 12-V battery. (p. 103) - Remove the rear of the motorcycle from the lifting gear. (p. 104) - Install the 12-V battery. (p. 103) - Install t
fault memory using the injection KTM diagnostics tool. - Engine has too little power Air filter is very dirty Change the air filter. -... Page 221 - Malfunction in ABS Read out the ABS fault memory using the KTM diagnostics tool. - High oil consumption Engine vent hose bent Route the vent hose without bends or change it if necessary. Page 222 21
TROUBLESHOOTING Faults Possible cause Action - High oil consumption Engine oil too thin (low viscos- Change the engine oil and oil filter, ity) clean the oil screen. p. 205) - Headlight and position light are Fuse 6 blown Change the fuses of individual power not functioning consumers. TECHNICAL DATA 22 22.1 Engine Design 1-cylinder 4-stroke
engine, water-cooled Displacement 125 cm<sup>3</sup> (7.63 cu in) Stroke 47.2 mm (1.858 in) Bore 58 mm (2.28 in) Compression ratio 12.8:1 Control DOHC, 4 valves controlled via cam lever, chain drive Valve diameter, intake 22.5 mm (0.886 in) Valve diameter, exhaust 19 mm (0.75 in) 22 TECHNICAL DATA 1st gear 12:34 2nd gear 15:31 3rd gear 18:28 4th
gear 21:26 5th gear 22:23 6th gear 22:23 6th gear 24:22 Mixture preparation Electronic fuel injection Ignition with digital ignition with digital ignition with digital ignition adjustment Alternator 12 V, 296 W Spark plug BOSCHVR5NEU Spark plug BOSCHVR
Screw, retaining bracket, stator 8 Nm (5.9 lbf ft) Loctite ® 243<sup>™</sup> cable Screw, oil filter cover 10 Nm (7.4 lbf ft) Screw, oil pump 12
Nm (8.9 lbf ft) Loctite ® 243™ Screw, retaining bracket 12 Nm (10.3 lbf ft) Loctite ® ... Page 227 TECHNICAL DATA 22 Screw, return spring, quick shifter 20 Nm (14.8 lbf ft) Loctite ® ... Page 227 TECHNICAL DATA 22 Screw, return spring, quick shifter 20 Nm (16.2 lbf ft) Coolant temperature sensor 14 Nm (10.3 lbf ft) Loctite ® ... Page 227 TECHNICAL DATA 22 Screw, return spring, quick shifter 20 Nm (16.2 lbf ft) Coolant temperature sensor 14 Nm (10.3 lbf ft) Coolant temperature sensor 14 Nm 
Thread is oiled, head flat is greased... 22 TECHNICAL DATA 22.3 Capacities 22.3.1 Engine oil Engine oil (SAE 15W/50) Ambient temperature: -10 ... p. TECHNICAL DATA 22 Total fuel tank capacity, approx. 10 l (2.6 US gal) Super
unleaded (ROZ 95/RON 95/PON 91) (p. 239) Fuel reserve, approx. 1.5 l (1.6 qt.) 22.4 Chassis Frame Lattice frame of steel tubes, powder-coated Fork WP Suspension Brake system... 22 TECHNICAL DATA front 2.0 bar (29 psi) rear 2.2
bar (32 psi) Secondary ratio Chain 5/8 x 1/4" (520) O-ring Steering head angle 66.5°... 110/70 R 17 M/C 54H TL 150/60 R 17 M/C 54H TL 150
DATA 22.7 Fork Fork article number 93501001200 WP Suspension Fork in (28.98 in) Fork oil (5AE 4) (48601166S1) p. 239) 22.8 Shock absorber article number 90504010100 Shock absorber WP Suspension Fork Fork length 736 mm (28.98 in) Fork oil (5AE 4) (48601166S1) p. 239) 22.8 Shock absorber article number 90504010100 Shock absorber Shock a
control 3 Nm (2.2 lbf ft) unit Nut, chain guard 7 Nm (5.2 lbf ft) Nut, reflector on retaining plate 5 Nm (3.7 lbf ft) Remaining screws, chassis 5 Nm (3.7 lbf ft) Remaining nuts, chassis 5 Nm (3.7 lbf ft) Remaining screws, chassis 5 Nm (3.7 lbf ft) Remaining screws, chassis 9 Nm (3.7 lbf ft) Remaining nuts, chassis 5 Nm (3.7 lbf ft) Remaining screws, chassis 5 Nm (3.7 lbf ft) Remaining nuts, chassis 6 Nm (3.7 lbf ft) Remaining nuts, chassis 6 Nm (3.7 lbf ft) Remaining nuts, chassis 6 Nm (
Nm (6.6 lbf ft) Screw, air filter box cover 6 Nm (4.4 lbf ft) Screw, front seat fixing 6 Nm (4.4 lbf ft) Screw, front spoiler 7 Nm (5.2 lbf ft) Screw, front spoiler 8 Nm (5.2
spoiler bottom front 6 Nm (4.4 lbf ft) Screw, front spoiler rear 6 Nm (4.4 lbf ft) Screw, fivel tank trim 6 Nm (4.4 lbf ft) Screw, side cover retaining bracket 7 Nm (5.2 lbf ft) Screw, wheel speed sensor holder 8 Nm (5.9 lbf ft) Screw, windshield 7 Nm (5.2 lbf ft) Exhaust
clamp 20 Nm (14.8 lbf ft) Remaining nuts, chassis... Page 237 TECHNICAL DATA 22 Screw, retaining bracket on fuel 13 Nm (9.6 lbf ft) Loctite ® ... Page 238 22 TECHNICAL DATA Adjusting ring,
link fork bearing M22x1 Tighten and ensure that there is no play Nut, steering head M30x1 55 Nm (40.6 lbf ft) 2. Loosen (counterclockwise) 2 turns 5 Nm (3.7 lbf ft) SUBSTANCES 23 Brake fluid DOT 4 / DOT 5.1 Standard/classification - 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 @ ... Page 240 23 SUBSTANCES 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. Page 241 SUBSTANCES 23 Engine oil (SAE 10W/40) Guideline - Use only engine oils that comply with the specified standards (see specifications on
the container) and that possess the corresponding properties. Page 242 23 SUBSTANCES - Fuel with an ethanol (e. g. M15, M85, M100) or more than 10 % ethanol (e. g. E15, E25, E85, E100). AUXILIARY SUBSTANCES 24 Chain cleaner Recommended supplier
MOTOREX ® - Chain Clean Fuel additive Recommended supplier MOTOREX ® - Fuel Stabilizer Long-life grease Recommended supplier MOTOREX... Page 244 24 AUXILIARY
SUBSTANCES 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 ® - Moto Protect Special cleaner for glossy and matter paint finishes, metal and plastic surfaces Recommended supplier MOTOREX ® - Moto Protect Special cleaner for glossy and matter paint finishes, metal and plastic surfaces Recommended supplier MOTOREX ® - Moto Protect Special cleaner for glossy and matter paint finishes, metal and plastic surfaces Recommended supplier MOTOREX ® - Moto Protect Special cleaner for glossy and matter paint finishes, metal and plastic surfaces Recommended supplier MOTOREX ® - Moto Protect Special cleaner for glossy and matter paint finishes, metal and plastic surfaces Recommended supplier MOTOREX ® - Moto Protect Special cleaner for glossy and matter paint finishes, metal and plastic surfaces Recommended supplier MOTOREX ® - Moto Protect Special cleaner for glossy and matter paint finishes, metal and plastic surfaces Recommended supplier MOTOREX ® - Moto Protect Special cleaner for glossy and matter paint finishes, metal and plastic surfaces Recommended supplier MOTOREX ® - Moto Protect Special cleaner for glossy and matter paint finishes, metal and plastic surfaces Recommended supplier MOTOREX ® - Moto Protect Special cleaner for glossy and matter paint finishes for glossy and matter paint finishes for glossy and matter 
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 motor-cycle specification. Whereas long service intervals are demanded for automobile engines, the focus for
motorcycle engines is on high performance at high engine speeds. 26 INDEX OF SPECIAL TERMS Anti-lock braking system that prevents locking of the wheels when driving straight ahead without the influence of lateral forces On-board diagnosis Vehicle system, which monitors the specified parameters of the vehicle electronics...
LIST OF ABBREVIATIONS 27 Art. no. Article number circa compare e.g. for example etc. et cetera i.a. inter alia number poss. possibly... Malfunction indicator lamp lights up yellow - Status
or error messages relating to ABS. INDEX INDEX Battery cover 12-V battery mounting ......120 charging ......164 removing . Page 251 INDEX Engine Front spoiler running in ......74 installing ......122 removing . Page 252 INDEX High beam flasher button .....28 Motorcycle cleaning ......210
High beam headlight setting lifting with front lifting gear . Page 253 INDEX checks and maintenance measures when Shift speed RPM1 preparing for use .... 230 electrical system .... 230 electrical system .... 230 electrical system .... 2313931en 01/2019 KTM
Sportmotorcycle GmbH Photo: 5230 Mattighofen/Austria Mitterbauer/KISKA/KTM ...
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