

Operator's Manual

RAMOS **SM 311**

Model: Trans-KC / Trans-RC / Trans-RC DUO

Disc mower

The Fella logo consists of the word "FELLA" in a bold, italicized, black sans-serif font, centered within a white circle. This circle is set against a large red background that features a stylized graphic of curved lines on the left side, resembling a fan or a series of overlapping blades.

FELLA

Harvesting Energy.

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2.6 Warning notices on the machine



Warning!

Risk of injury from illegible warnings.

Warnings and symbols on the machine draw attention to hazards. If warning signs affixed to the machine are no longer legible or are damaged/missing, they must be replaced without delay.

➔ Always check the condition of warning signs affixed to the machine before each use.

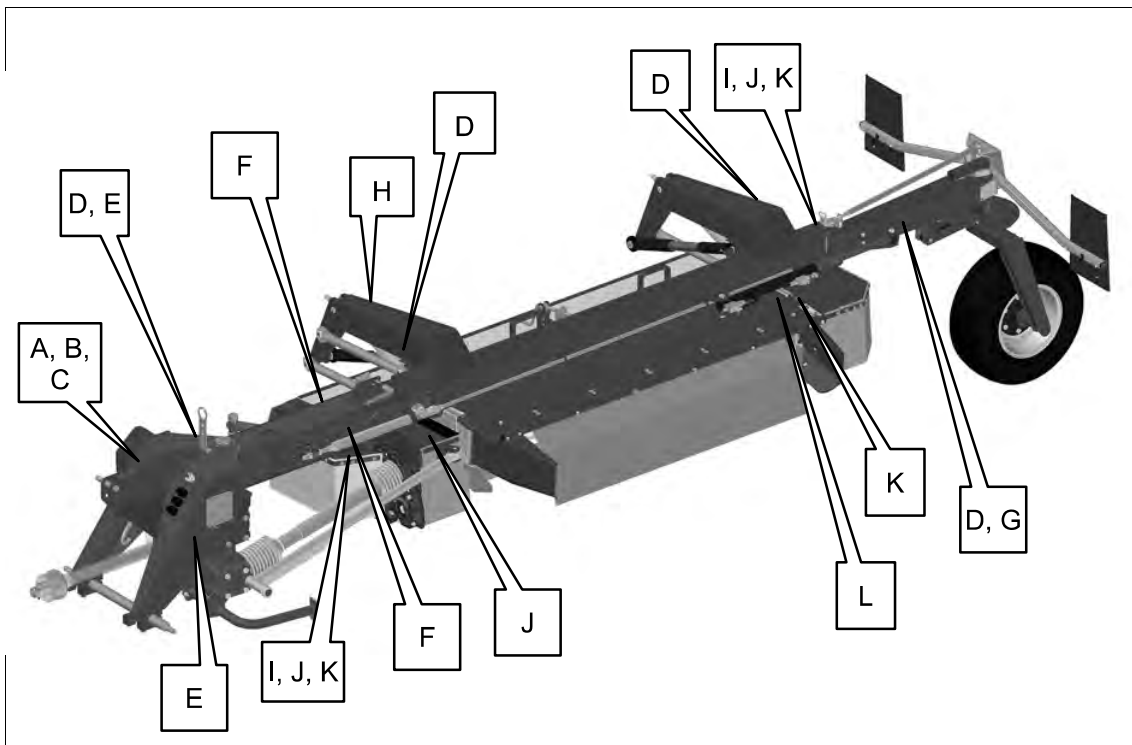


Fig. 5 Warning notices on the machine

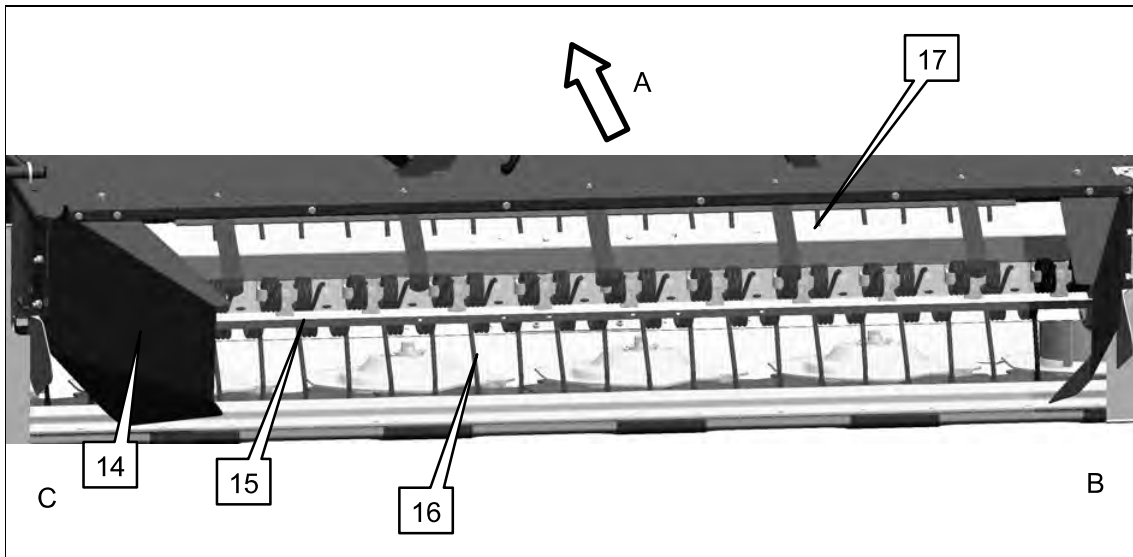


Fig. 24 Additional components of the KC conditioner

- 14 Swath board
- 15 Tine rotor
- 16 Flexible tine
- 17 Counter-comb

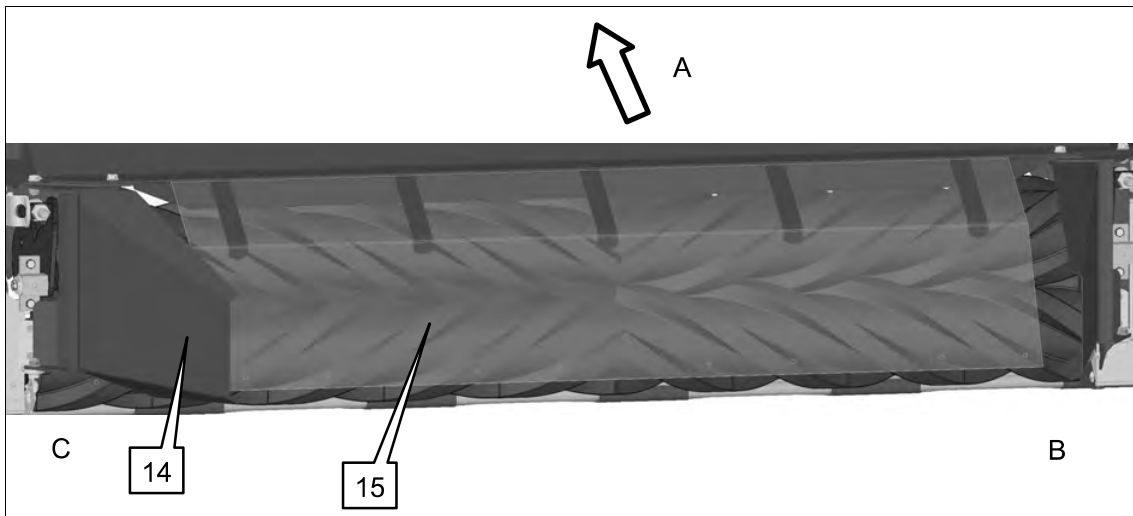


Fig. 25 Additional components of the RC conditioner

- 14 Swath board
- 15 Rubber rollers

7 Transport position and working position

7.1 Switching the machine to transport position



Warning!

Risk of injury from rotating machine parts

Rotating machine parts may cause injury to the user or to other people working on the machine.

- Switch off the machine.
- Switch off the tractor engine.
- Remove the ignition key.
- Wait for the machine parts to come to a complete stop.



Important!

Possible material damage caused by disregarding the transport height and swivelling range.

If the machine is in the vicinity of obstacles (e.g. buildings, bridges, overhead cables), you must observe the height and swivelling range (see chapter 4 Specifications).

- Make sure that there are no obstacles in the swivelling range.



Warning!

Risk of injury as a result of raising or lowering the machine

Lifting or lowering the machine can result in injury to anyone remaining within the swivelling range of the machine.

- Make sure there is no-one within the swivelling range of the machine.



Warning!

Risk of injury due to inadvertent machine movement.

If the machine is being pivoted into the transport or working position whilst standing on sloping terrain, there may be inadvertent or unforeseen machine movements. This may result in injury to persons within the swivelling range.

- Before pivoting, ensure that there are no persons in the machine's swivelling range.
- Instruct any persons present to leave the swivelling range.
- Warn any persons near the machine.
- Do not pivot the machine until all persons have moved out of the swivelling range.
- Start with the mower unit facing down the slope.

- Actuate the double-acting control valve until the wheel bracket is in transport position (lengthwise to the main frame).

Locking the support frame to the three-point headstock is triggered automatically and the supporting wheel is swivelled to the trailing position.

- Set the SA control valve to lifting.
- Lift the mower unit fully.
- Move the tractor carefully forwards with the steering at left lock until the tractor and the machine are behind each other in a line.

11 Machine storage



Danger!

Risk of injury from the machine slipping, lowering or tipping over

If the machine slips, lowers or tips over, anyone standing near it may be put at risk.

- Park the machine only in the parking position (see Fig. 65, straight ahead position for the supporting wheel, frame and three-point headstock, and fully lowered mower unit).
- Park the machine on level and firm ground.
- Ensure that the machine is sufficiently stable.



Danger!

Risk of injury from running-on machine parts

The work tools on the machine may continue to run after the drive has been switched off, causing personal injury.

- Wait until all machine parts have stopped rotating.
- Approach the work tools only when they are stationary.
- Remove both pull ropes from the tractor cab.
- Raise the lower links slightly in a straight transport position.

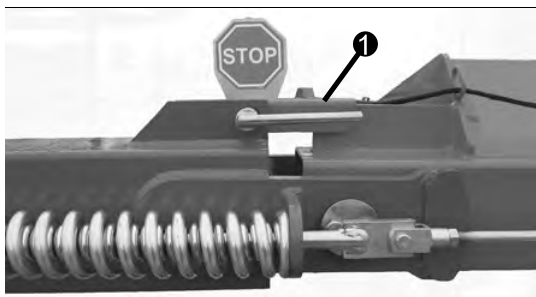


Fig. 60 Parking position of the frame locking flap

- Swing the frame locking flap (1) into the parking position.

The stop sign is then visible. It indicates that it is prohibited to move the machine in this condition.

- Lower the lower links.
- Release the top link catch hook.
- Detach the top link of the tractor from the machine.
- Raise the lower links again.



Fig. 61 Support leg lowered

- Loosen the linch pin (2).
- Pull the support leg (1) away from the support leg clip (3) until it can be folded down.
- Fold down the support leg (1).
- Slide the support leg (1) back onto the support leg clip (3).
- Secure the support leg (1) with the linch pin (2).
- Lower the lower links of the tractor until the machine rests on the support leg.



Fig. 62 Ball valve on the left lifting cylinder open

- Insert the stop pin back into the respective mower disc.
- Insert a bolt (1) into the outer bolt circle to prevent the element from turning.

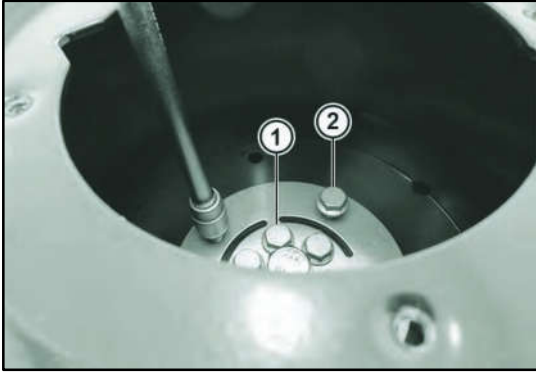


Fig. 84 Tighten bolts

- Tighten the 6 inner bolts (1) in a crosswise sequence. Observe the tightening torque of 110 Nm.



Important!

Risk of material damage from incorrect tightening sequence!

An incorrect tightening sequence of the inner bolts can bend the driveGUARD element out of shape or destroy it.

- Always tighten the inner bolts in a crosswise sequence.

- Tighten the 4 outer bolts (2). Observe the tightening torque of 110 Nm.



Fig. 85 Bolt down cover

- Place the cover (1) on the feed drum.
- Tighten the 4 bolts (2).
- Remove the stop pin.

12.3.4 Checks after replacing a driveGUARD element

- Check that the adjacent mower discs are at 90° to the mower disc with the replaced driveGUARD element.
- In event of a deviation from this angle, replace the driveGUARD element of the respective mower disc.
- Check the cutter blades for damage.
- Replace any damaged cutter blades.
- Check that the cutter blade holders are securely in place and are not damaged.
- Replace any loose or damaged cutter blade holders.
- Check the other parts (mower and stone guard discs, runners and connection parts) of the cutter bar for damage, and replace if necessary.
- Carefully start operating the machine again and listen out for unusual noises.
- If unusual noises occur, park the machine immediately and identify the cause.
- Consult a specialist workshop immediately if you cannot identify the cause of the unusual noises.

12.4 Overload protection system for the conditioner

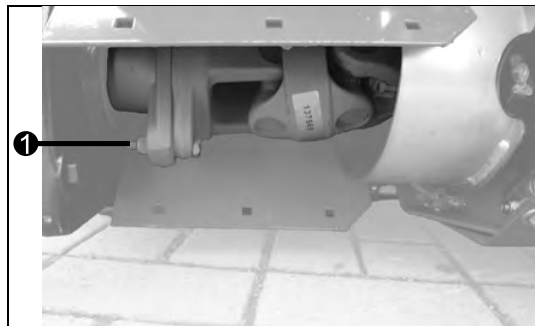


Fig. 86 Conditioner drive

- Turn both parts of the shear torque limiter until the broken shear bolt (1) can be removed.
- Remove the broken shear bolt (1) and insert a new one (M8x50-8.8 DIN 931 bolt).
- Tighten the new shear bolt to 25 Nm.

Replacing the cutter blades



Important!

Risk of material damage from imbalance

Irregular running may result in damage to the machine.

- Always replace cutter blades in pairs.
- Always ensure the cutter blades are fitted according to the direction of rotation.



Note

A key is provided for the quick-change blade system.

- Use the key provided for replacing the cutter blades.
- Remove any dirt from around the cutter-blade attachment.

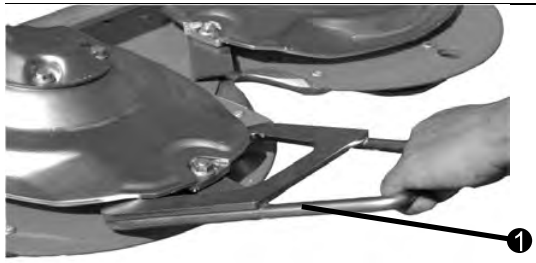


Fig. 100 Inserting the key

- Insert the key (1).

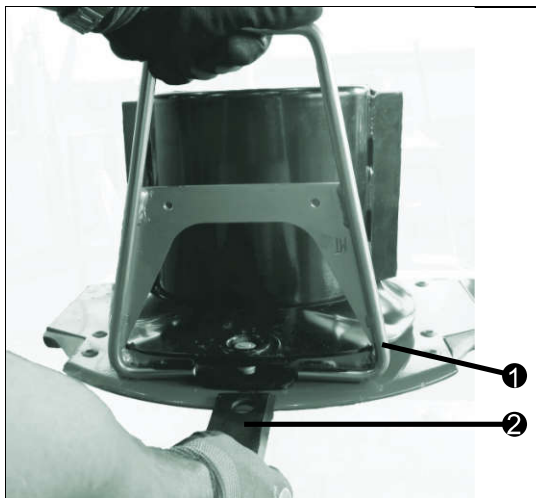


Fig. 101 Removing the cutter blades

- Turn the key (1) upwards.
- Remove the used cutter blade (2).

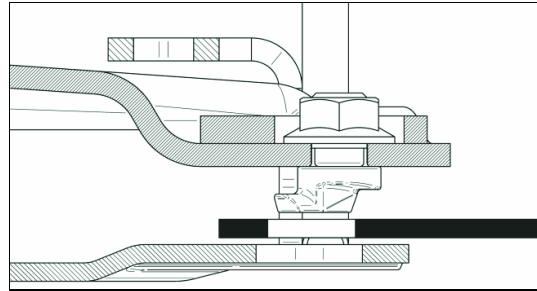


Fig. 102 Cutter blade on the blade retaining bolt

- Slide the new cutter blade over the blade retaining bolt.

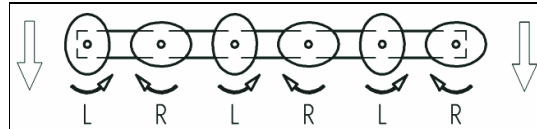


Fig. 103 Direction of rotation of the cutter discs

- Observe the direction of rotation of the mower disc.
- Turn the key downwards and remove it.

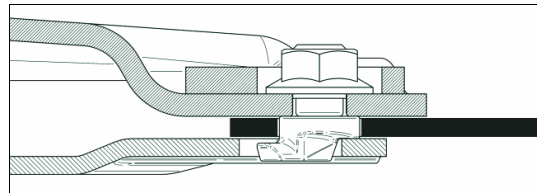


Fig. 104 Checking the cutter blade seating

- Check whether the cutter blade is correctly positioned on the blade retaining bolt.

Replacing the blade retaining bolt and/or the holding spring

- Clean the relevant mower disc.
- Insert the stop pin into the stone guard of the relevant mower disc.
- Rotate the mower disc as far as it will go to prevent it from rotating further.
- Remove the cutter blades from the relevant mower disc.

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