Customer Care News

No. 0000
Department
Product name

1 Improved design for (Product name) swing-over mechanism and arm

To improve mechanical swing-over drive system and arm, design updates were implemented inside the stainless steel beam, and also on tube nipples rubber bumper plate.

A common failure is the lost of automatic swing-over function when the teeth bar and the cog-wheels are disengaged. Few times a rubber bumper and a plate holding the tube nipples were out of the arm position.

(Product name) with improved drive system and arm will be introduced in (month), YYYY.

The following solutions are implemented to swing-over drive system:

- The guidance of the teeth bar is changed from the plastic guides to a more robust guidance including two additional steel guiding brackets. The teeth bar has a long groove and a fixing bolt inside the groove. This prevent the teeth bar to disengaging from the cogwheel.
- The cogwheel thickness is increased (only for new beams).
- The cylinder bracket between the teeth bar and the pneumatic piston is modified to give a correct alignment between the cylinder piston stroke and the teeth bar (only for retrofits).
- Loctite is used to secure tightening of critical screws.

The following solution is implemented to bumper in front of the swing-over arm:

- A thicker steel plate provides a longer thread and gives a better bolted joint with less over-tightening risk.

2 Article numbers

New article numbers for serial production

New article number	Old article number	Description
60000000	90000000	SS000 beam 30 complete
60000000	90000000	SS000 beam 35 complete
60000000	90000000	SS000 beam 37 complete
60000000	90000000	SS000 beam 39 complete

Upgrade kit for already installed systems

Article number	Description	Article number in AWACS
60000000	SS000 beam 30 upgrade kit	5000000
60000000	SS000 beam 35 upgrade kit	5000000
60000000	SS000 beam 37 upgrade kit	5000000
60000000	SS300 beam 39 upgrade kit	5000000

Article numbers for SS000 arm parts

Article number	Description
2000000000	SS000 Arm, plate threaded ring
2000000000	SS000 Arm, bottom rubber buffer complete

Note! *Upgrade kits include parts needed only for swing-over drive system update. The arm rubber bumper plate and arm complete front part can be ordered separately and only if required.*

3 Extended warranty for SS000 beams

For the farm with mechanical issues of beams (delivered from YYYY), the upgrade kit is available and labour compensation of 00 € per beam. Use a special article number in AWACS for the upgrade kits to get the extended warranty, see ↳ *Table "Upgrade kit for already installed systems" on page 2*.

The extended warranty is limited and valid for 6 months after the release of this document.

Note! *The farm name is required to proceed with the claim. Only one farm per claim is allowed.*

Note! *A group claim is possible if more than one beam on the farm needs to be upgraded.*

Note! *It is recommended to do the upgrade in connection with the planned service. All upgrades should be done locally and when needed.*

4 Installing the retrofits

Note! *Installation of the upgrade kit on each SS000 beam takes about one hour.*

Tools:

- Two pieces of 17 mm spanner
- Two pieces of 13 mm spanner
- One piece of 10 mm spanner
- One piece of 5 mm hexagon key
- One piece of Philips screwdriver

Additionally:

- Glue Loctite 243
- Glue residues remover (Loctite 7200 or similar)
- Grease Molykote Multilub (or similar)

1. Turn off the air compressor and take-off system.
2. Remove the beam cover.
3. Disconnect the pneumatic tubes from the cylinder check-choke valves.

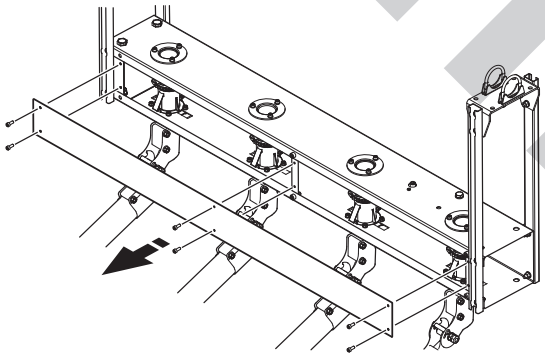

Fig. 1: Removing the beam cover.

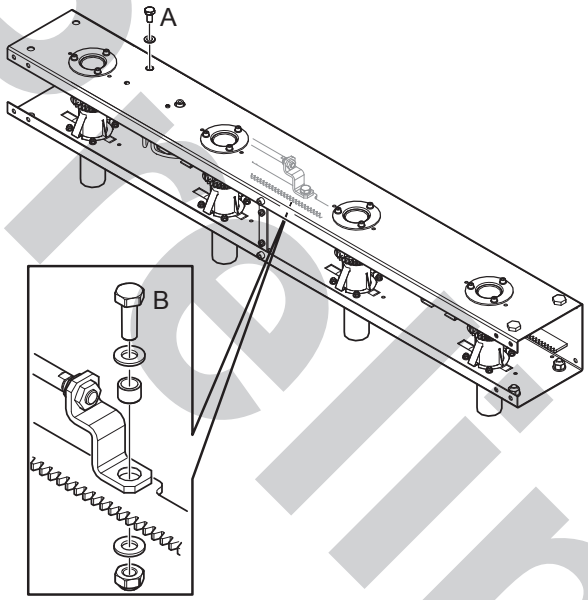

Fig. 2: Unscrewing front and rear cylinder connections.

4. Unscrew the front (A) and the rear (B) connection of the cylinder.
5. Remove the cylinder from the beam.

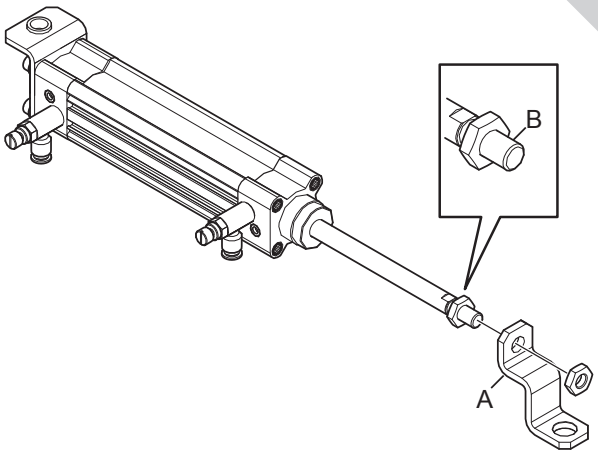

Fig. 3: Unscrewing old cylinder bracket.

6. Unscrew the old cylinder bracket (A).
7. Clean the thread (B) on piston rod by removing glue residues.

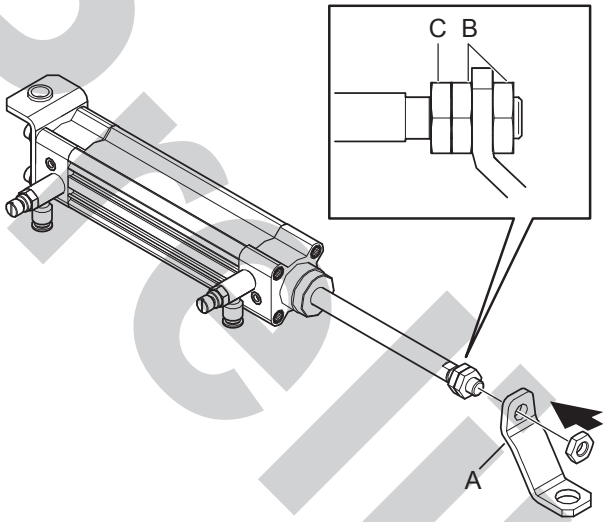

Fig. 4: Installing the new cylinder bracket.

8. Mount the new cylinder bracket (A).
9. Use the old nut (C) and tighten it to the end of the thread.
10. Glue the new nuts (B) to the rod with Loctite 243.

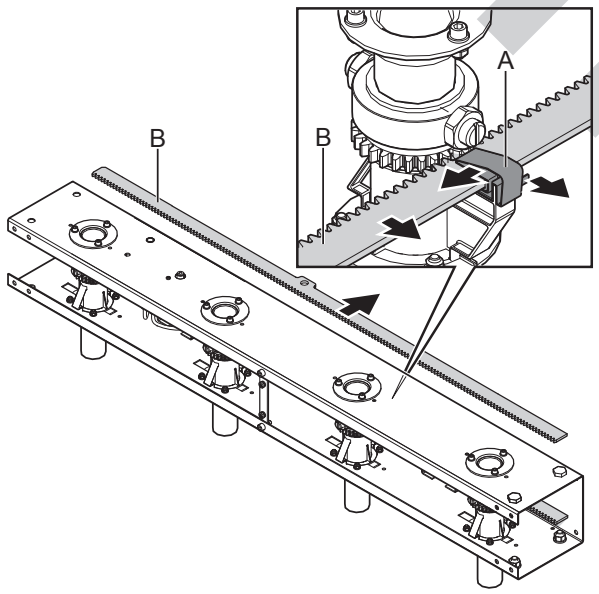

Fig. 5: Removing the main bracket snaps and teeth bar.

11. Remove the main bracket snaps (A) and the old teeth bar (B).

12. Install the new teeth bar.

Note! *The cut (5) x 45˚ determines the mounting position of the teeth bar on the left side of the beam.*

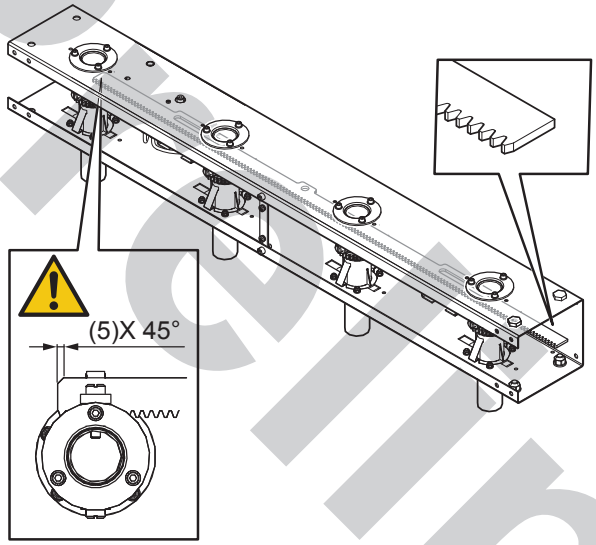

Fig. 6: Mounting position of the new teeth bar.

13. Mount the cylinder to the beam (A) and the teeth bar (B).

14. Connect the pneumatic tubes to the cylinder check-choke valves.

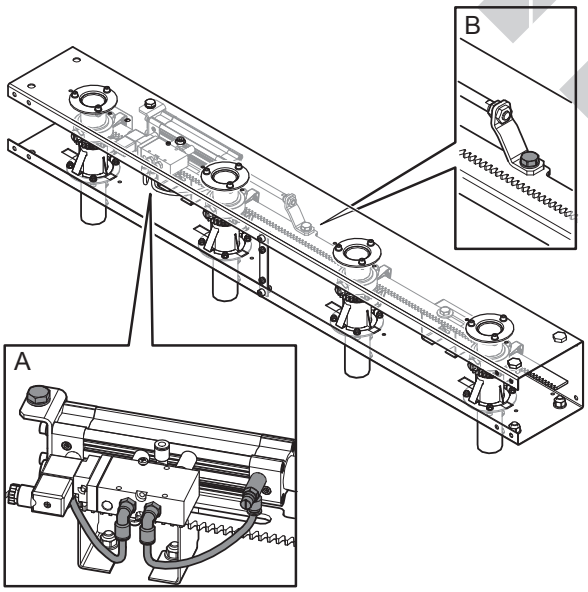

Fig. 7: Mounting cylinder and teeth bar.

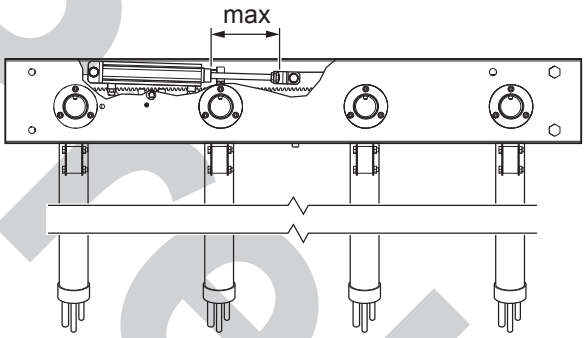

Fig. 8: Setting the position of the arms.

15. Adjust the arms in correct position when the piston rod is maximally extended or retracted.

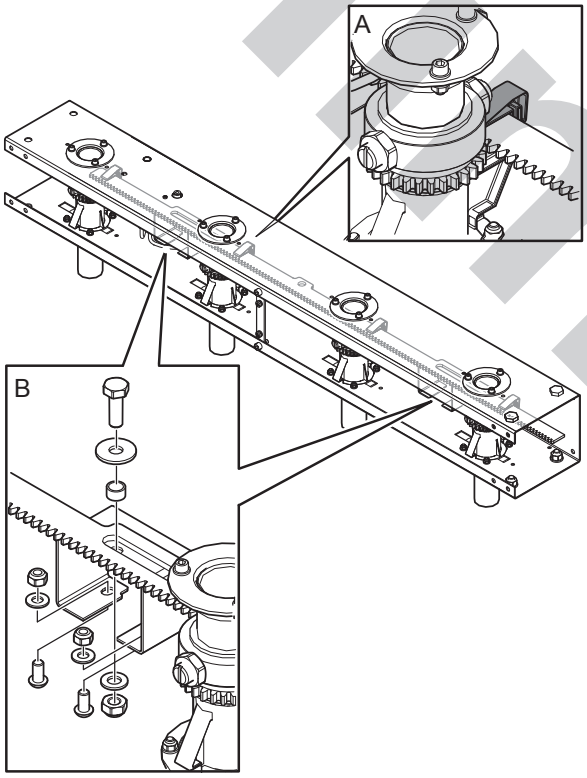

Fig. 9: Mounting the bracket snaps and guiding brackets.

16. Mount the bracket snaps (A) and guiding brackets (B).

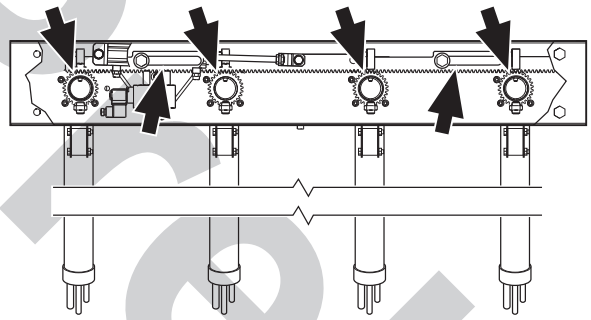

Fig. 10: Lubricating sliding surfaces and cogwheels.

17. Lubricate all sliding surfaces and cogwheels with Molykote Multilub (or similar).
18. Turn on the compressed air regulator valve.
19. Check the function of the system by simulating milking.
20. Install the beam cover back.
21. Make sure that all lock screws are securely tightened.

5 Senders

name surname

Product Specialist

function

name surname

Technical and Installation Specialist

function

name surname

Technical Specialist

function