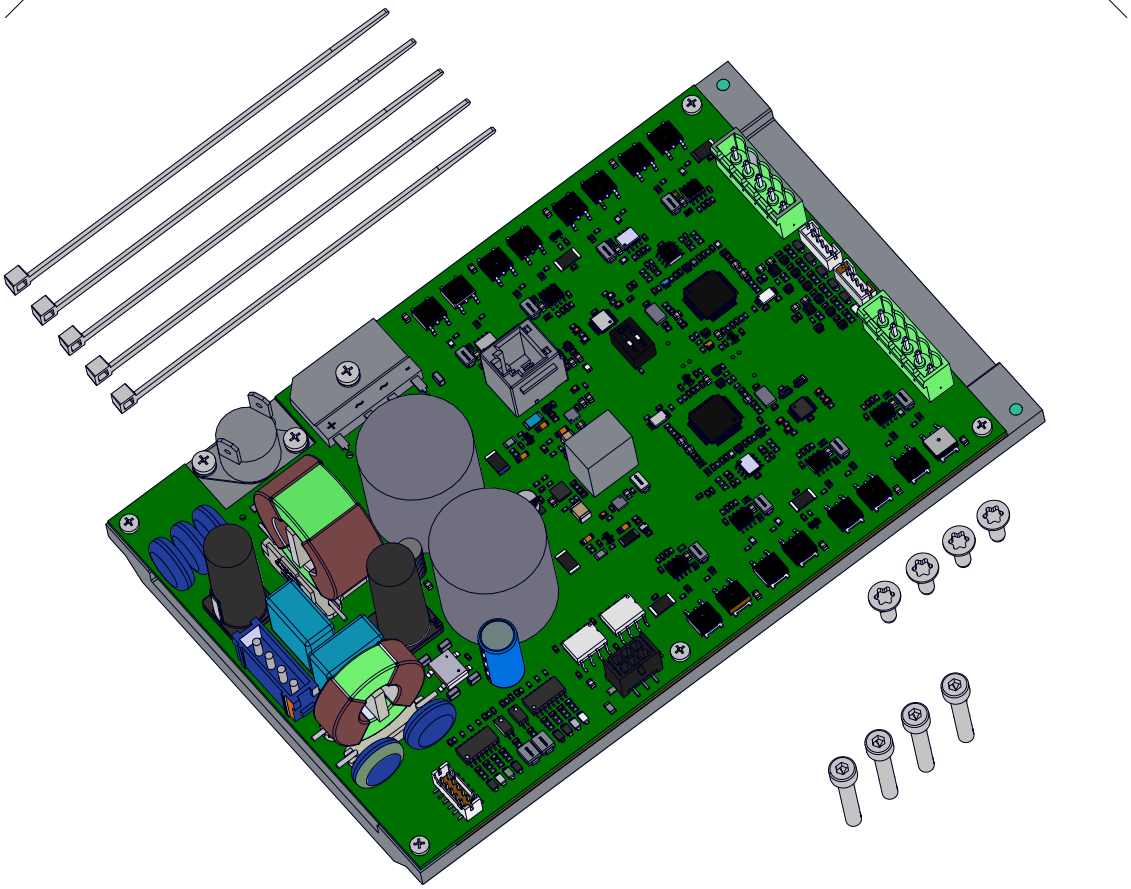
NOVEXX SOLUTIONS

INSTALLATION INSTRUCTIONS

Dual motor driver conversion kit

for XLS 2xx / ALS 30x / ALX 73x

N104619



Edition 0e - 9/2025

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Notes on implementation

These installation instructions describe how to replace the A7389 dual motor driver with the N103739 dual motor driver in XLS 2xx, ALS 30x, or ALX 73x machine types.

> For simplicity, this manual uses the term “motor driver” instead of “dual motor driver” or “dual motor output stage” or other possible designations.
>
> The illustrations generally refer to the RH version of the respective machine. Exceptions are the illustrations at the beginning of the chapters for ALS 30x and ALX 73x and the illustrations for connecting the motor driver, as the installation situation for these machines cannot be transferred from RH to LH as easily as with the XLS 2xx.
>
> Due to the nature of the system, the illustrations show the machines without cables..

Prerequisites:

- XLS 2xx, ALS 30x, or ALX 73x [1] with built-in motor driver A7389 and the current standard firmware
- Conversion kit N104619, contains:
  - Motor driver N103739
  - 4 cylinder head screws M4x25 (for XLS 2xx)
  - 4 countersunk screws M4x12 (for ALS 30x, ALX 73x)
  - 5 cable ties

Tools:

- Hexagon screwdriver sizes 2.5/3/4
- (ALS 30x, ALX 73x) Torx screwdriver size 20
- (ALS 30x, ALX 73x) Phillips screwdriver size 2

Safety:

The safety instructions in the service manual for the respective machine apply to these installation instructions.

1 The motor driver is installed twice here, once in the dispenser section (AUM) and once in the printer section (PUR).

XLS 2xx

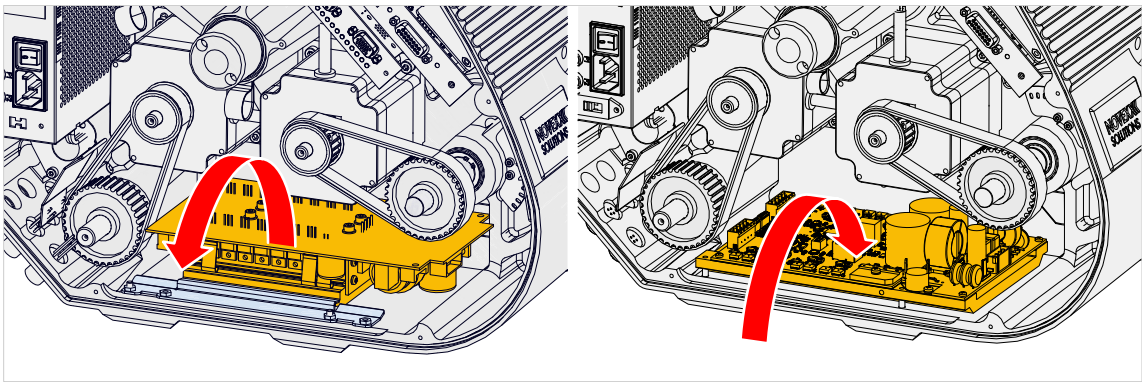
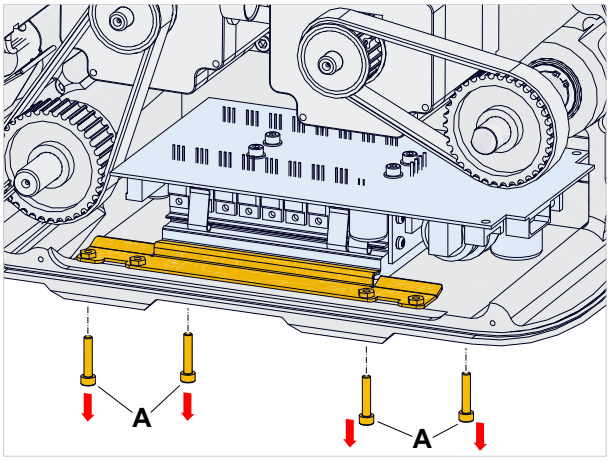


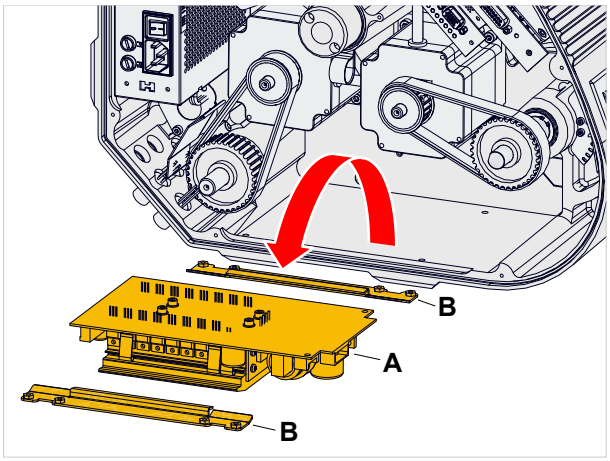
Fig. 1: Left: Remove motor driver A7389; Right: Install motor driver N103739

Procedure

1. Switch off the machine and disconnect it from the power supply..
2. Remove the rear cover of the housing.
   Refer to the service manual ALS/XLS 20x/256/272, chapter “Repair” > “Opening the casing”
3. Disconnect all 4 cables from the motor driver.
4. Unscrew the retaining brackets on the power amplifier board. To do this, loosen 2 screws (A) on each of the two retaining brackets and set them aside; they will no longer be used:

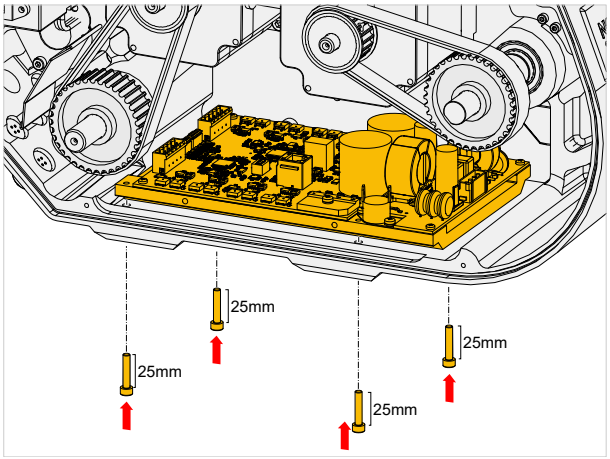


5. Remove motor driver A7389 (A) and retaining brackets (B):



6. Screw the motor driver N103739 in place using the 4 cylinder head screws provided.

> When screwing it on, the motor driver must lie flat on the housing base with the heat sink. To achieve this, proceed as follows:



a) First tighten the screws until you feel slight resistance..

b) Then tighten the screws twice in a cross pattern..

> This procedure ensures that there is no gap between the heat sink with the motor driver and the housing; a gap would impair heat dissipation and could lead to malfunctions!

c) Reconnect all 4 cables to the motor driver (for details refer to the service manual ALS/XLS 20x/256/272, chapter “Elektronics Description” > “Wiring Diagrams”).

> – Cable positions: Identical to the old motor driver.
> – Secure the cables so that they do not come into contact with moving parts.
>
> If necessary, existing cable ties must be removed to adjust the length of the cables.

7. Reattach the rear panel.

ALS 30x (AUM)

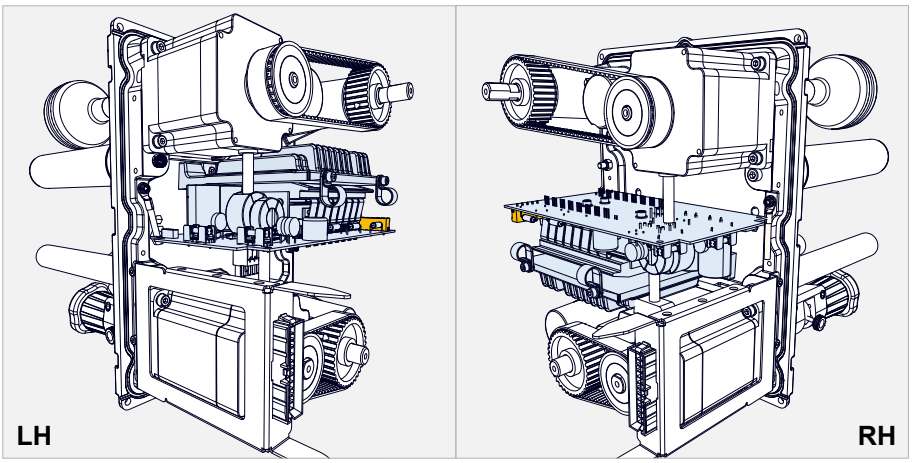


Fig. 2: AUM before the conversion.

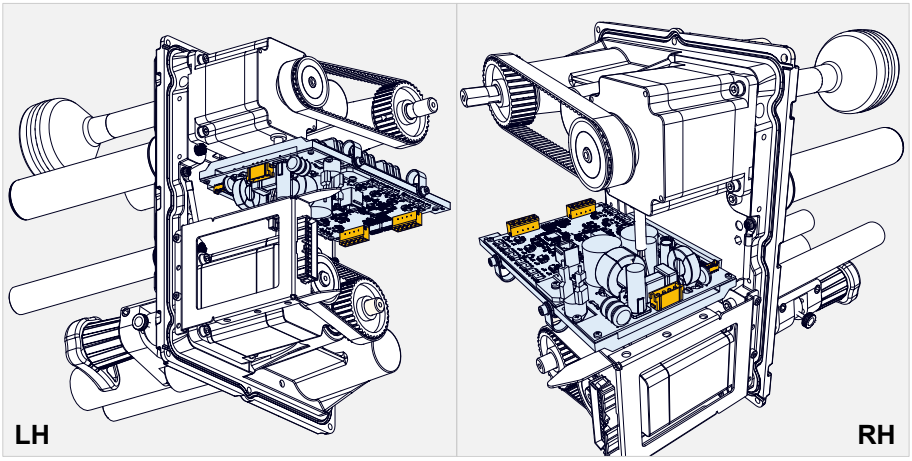


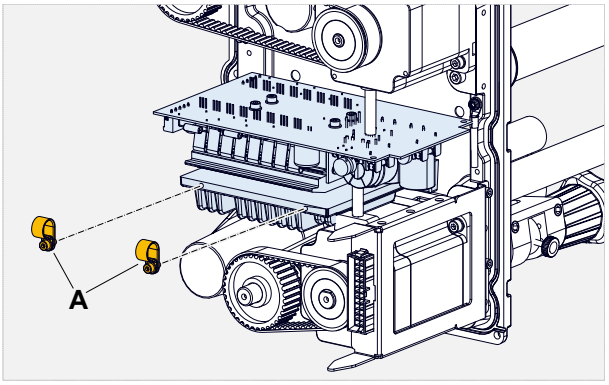
Fig. 3: AUM after the conversion.

Procedure

1. Remove the AUM (pictures above).
   For details refer to the service manual ALS 30x, chapter “Repair” > “AUM” > “Removing the AUM”

2. Remove motor driver A7389 with heat sink:

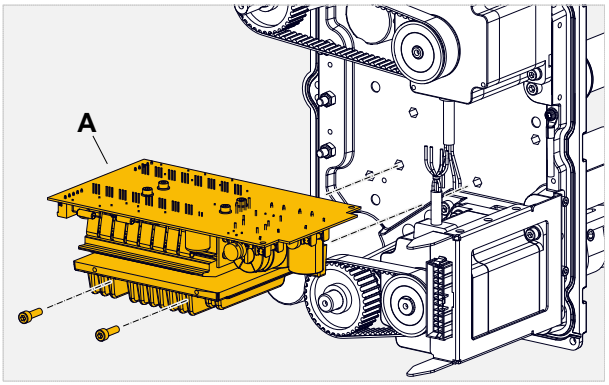
   a) Unscrew the two cable clamps (A):



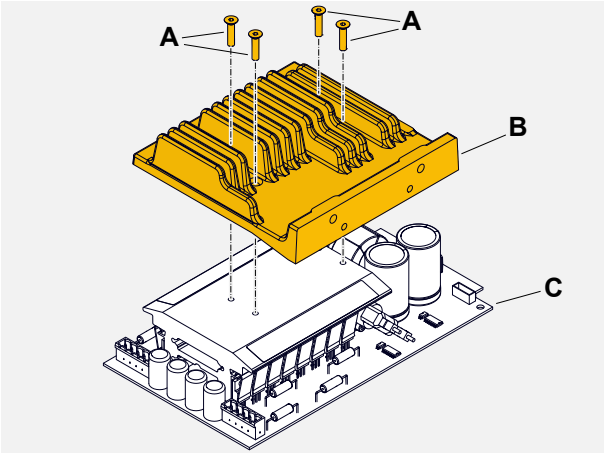
   b) Remove the cables from the cable clamps.

   c) Disconnect all 4 cables from the motor driver.

   d) Unscrew the motor driver and heat sink assembly (A) from the AUM base plate:



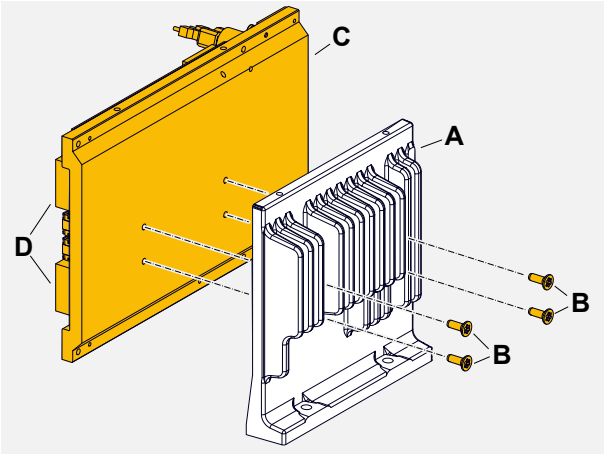
3. Unscrew the heat sink (B) from the motor driver (C). Set the screws (A) aside; they will no longer be used.



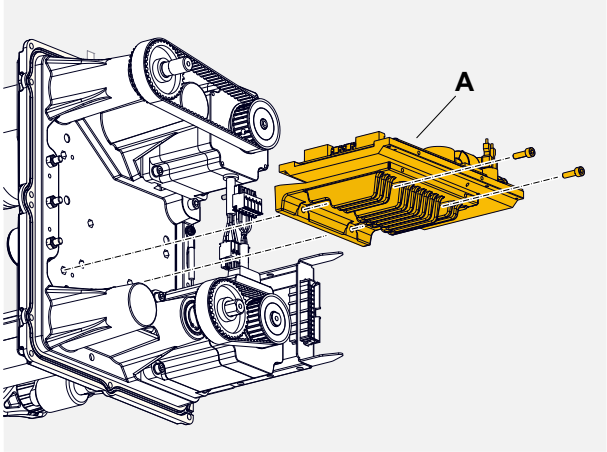
4. Screw the heat sink (A) onto the motor driver N103739 (C) from the retrofit kit as shown:

   Use the Torx countersunk screws (B) from the retrofit kit!

   The motor connections (D) point to the left as shown.

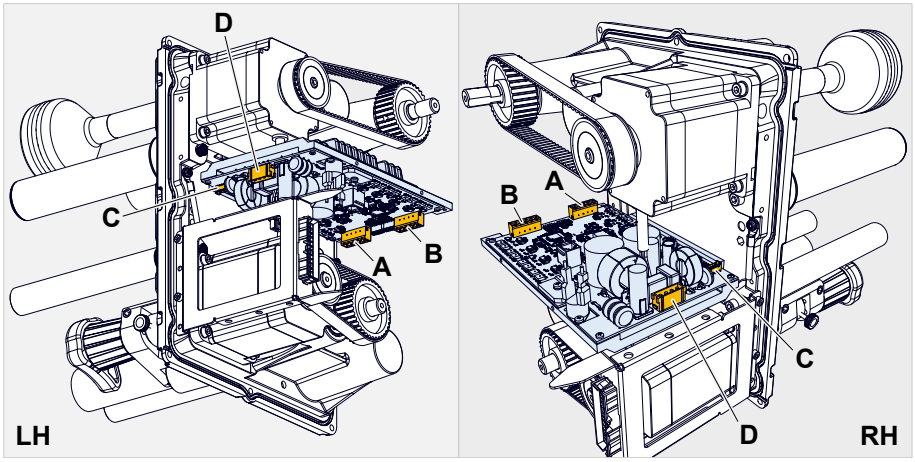


5. Screw the motor driver and heat sink (A) back onto the base plate of the AUM:



   The heat sink is reinstalled in the same position it was in before the conversion.

6. Connect the motor driver as shown:



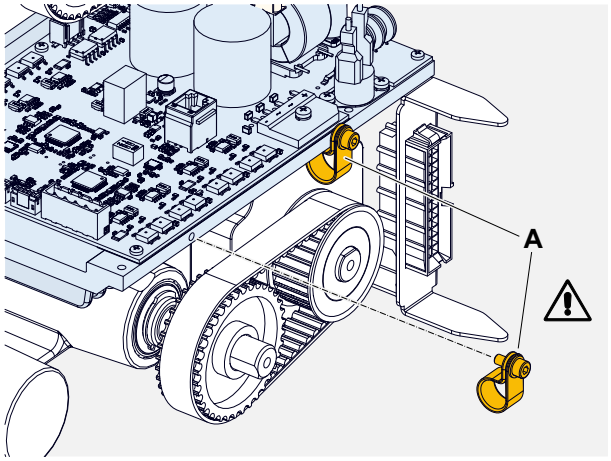
A	Pull motor (upper motor in the illustration; green connector; on circuit board: “Transport Motor”)
B	Push motor (lower motor in the illustration; green connector; on circuit board: “Rewinder Motor”)
C	Wiring harness from connection plate (small plug)
D	Wiring harness from connection plate (large plug)

To do this, proceed as follows:

a) Plug in and lay the cables.

> If necessary, existing cable ties must be removed to adjust the length of the cables.

b) Insert the cables into the cable clamps (A) and screw them in place as shown:



> The cable clamps are directed toward the heat sink and inward.
>
> Contrary to the illustration, the cables are located in the cable clamps when screwed on.

c) Secure the cables using the cable ties included in the kit so that they do not come into contact with moving parts.

7. Reinstall the AUM into the machine.
   For details refer to the service manual ALS 30x, chapter “Repair” > “AUM” > “Installing the AUM”.

ALS 30x (PUR)

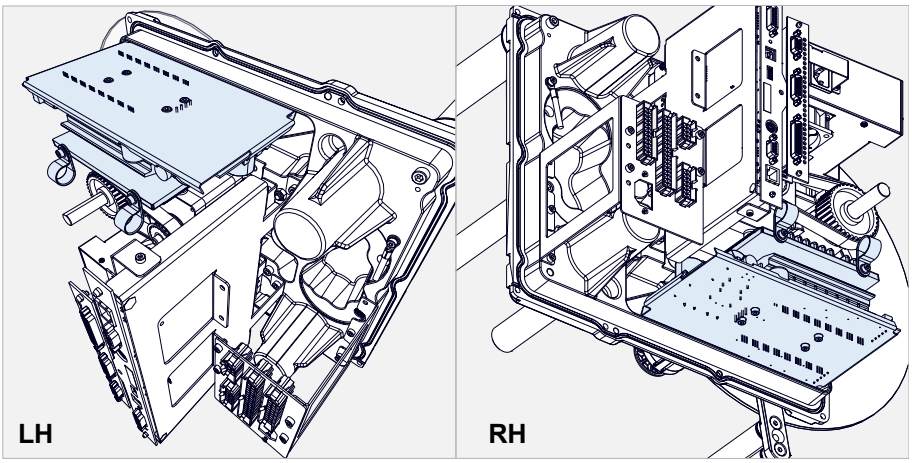


Fig. 4: PUR before the conversion.

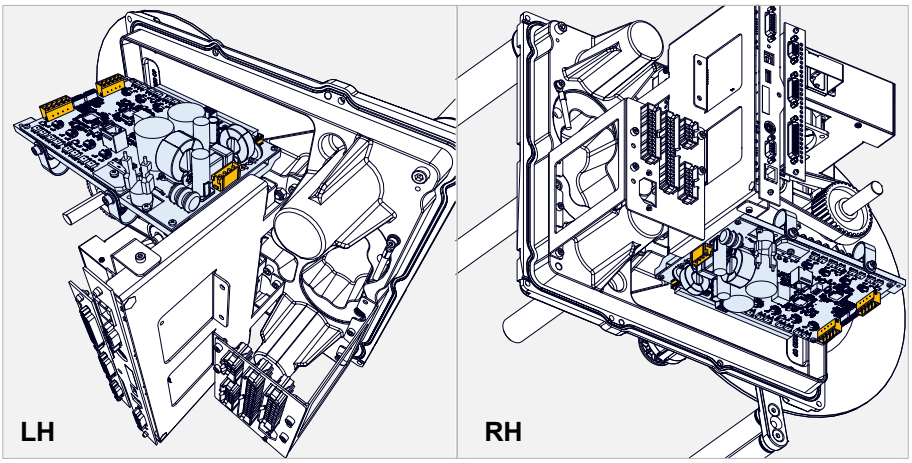
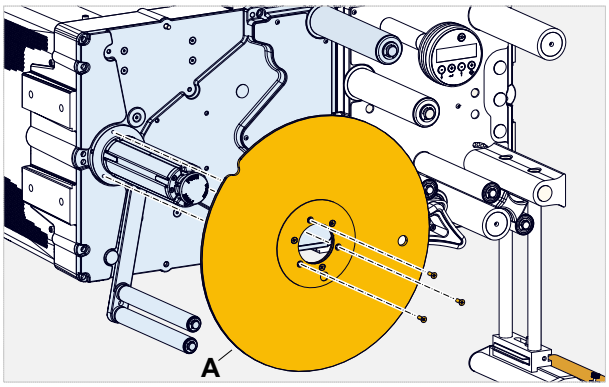


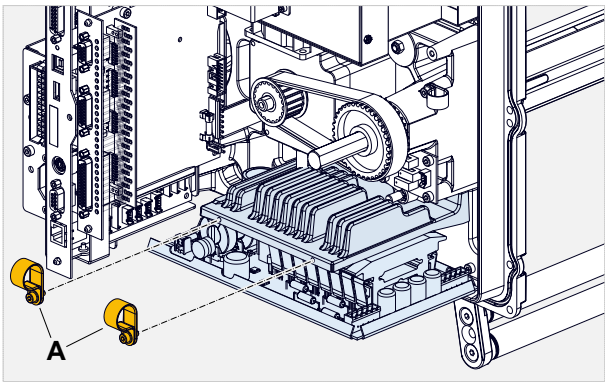
Fig. 5: PUR after the conversion.

Procedure

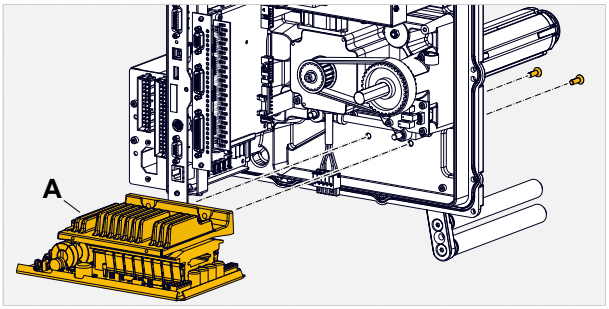
1. Remove the guide disc (A) from the PUR. To do this, unscrew the 3 screws that are *not* marked with locking varnish and remove the guide disc:



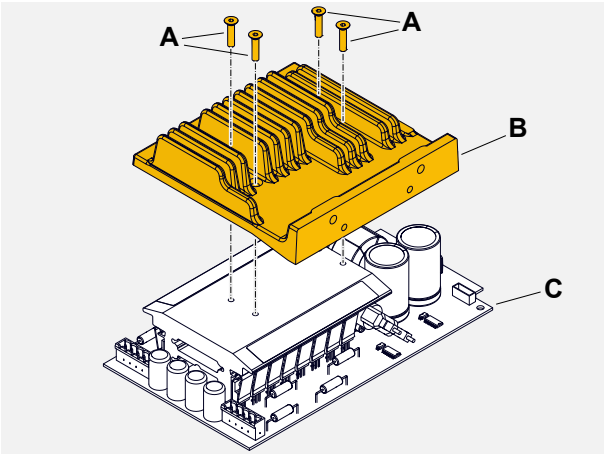
2. Remove the PUR.
   For details refer to the service manual ALS 30x “Repair” > “PUR” > “Removing the PUR”
3. Remove motor driver A7389 with heat sink:
   a) Unscrew the two cable clamps (A):



   b) Remove the cables from the cable clamps.
   c) Disconnect all 3 cables from the motor driver.
   d) Unscrew the motor driver and heat sink assembly (A) from the PUR base plate:



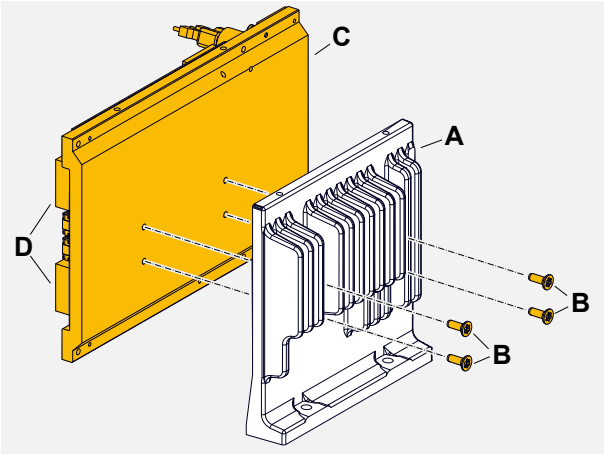
4. Unscrew the heat sink (B) from the motor driver (C). Set the screws (A) aside; they will no longer be used.



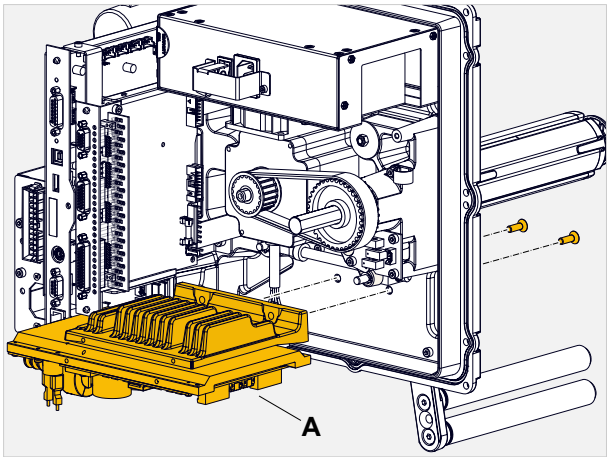
5. Screw the heat sink (A) onto the motor driver N103739 (C) from the retrofit kit as shown:

   Use the Torx countersunk screws (B) from the retrofit kit!

   The motor connections (D) point to the left as shown.

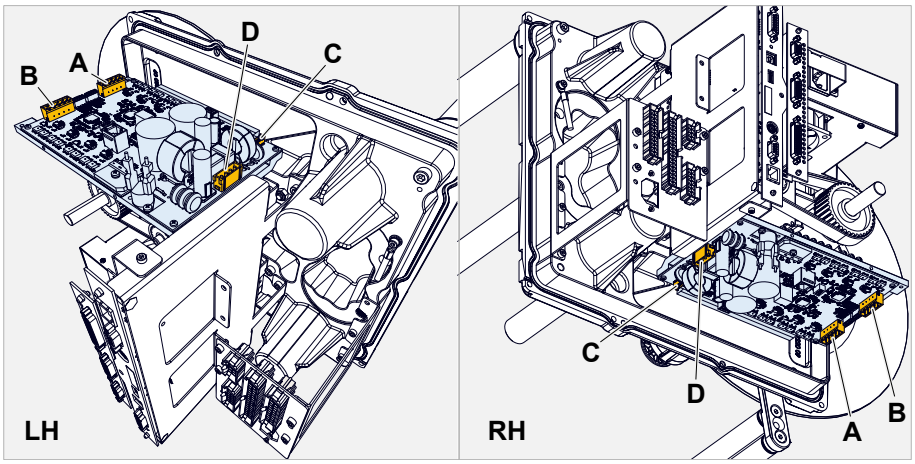


6. Screw the motor driver and heat sink (A) back onto the base plate of the PUR:



   The heat sink is reinstalled in the same position it was in before the conversion.

7. Connect the motor driver as shown:



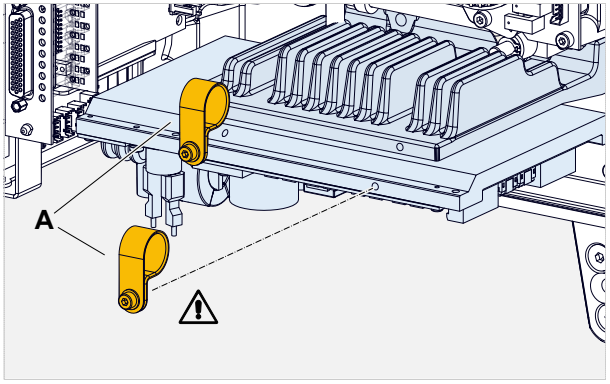
A	Not connected
B	Rewinder motor (lower motor in the illustration; green connector; on circuit board: “Rewinder Motor”)
C	Connection CPU board (small white plug; cable A6803)
D	Power supply connection (large white plug; cable A6463)

To do this, proceed as follows:

a) Plug in and lay the cables.

> If necessary, existing cable ties must be removed to adjust the length of the cables.

b) Insert the cables into the cable clamps (A) and screw them in place as shown:



> The cable clamps are directed toward the heat sink and inward.
>
> Contrary to the illustration, the cables are located in the cable clamps when screwed on.

c) Secure the cables using the cable ties included in the kit so that they do not come into contact with moving parts.

8. Reinstall the PUR into the machine.
   For details refer to the service manual ALS 30x “Repair” > “PUR” > “Installing the PUR”.

9. Reinstall the guide disc.

ALX 73x (LMA)

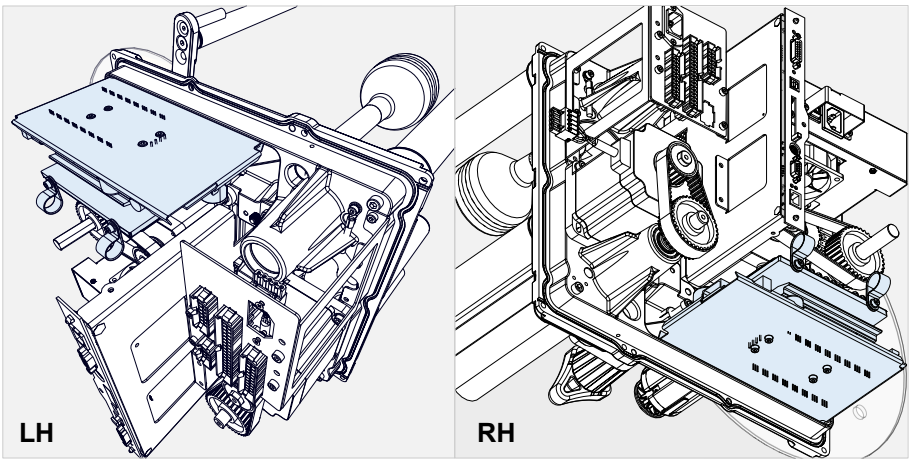


Fig. 6: LMA before the conversion.

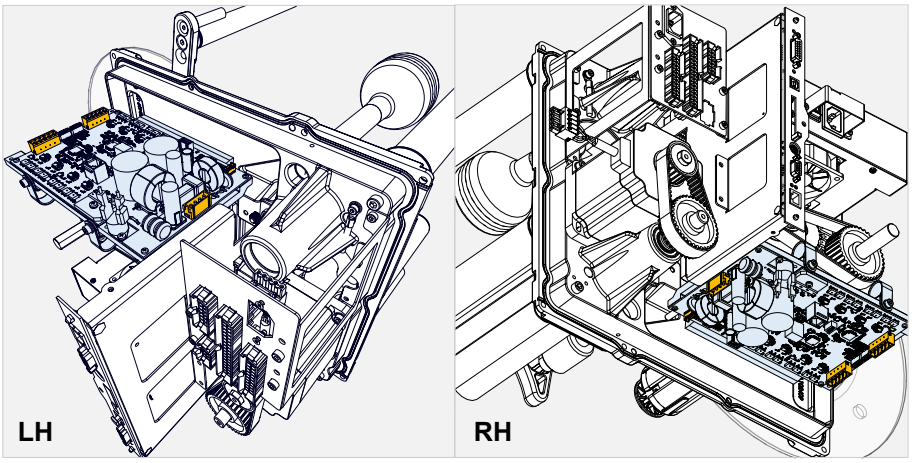
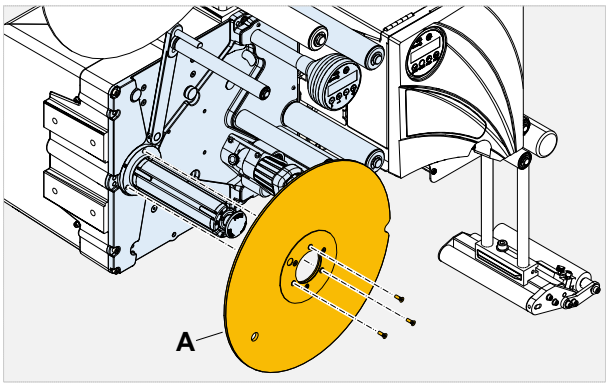


Fig. 7: LMA after the conversion.

Procedure

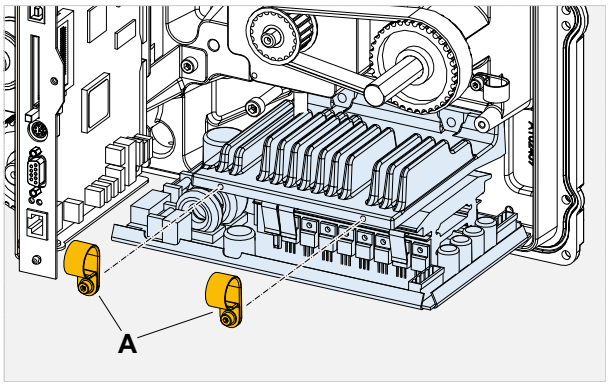
1. Remove the guide disc (A). To do this, unscrew the 3 screws that are not marked with locking varnish and remove the guide disc:



2. Remove the LMA.
   For details, refer to the ALX 73x service manual, chapter “Mechanics Dispenser (LMA)” > “Removing the LMA”.

3. Remove motor driver with heat sink A7389.

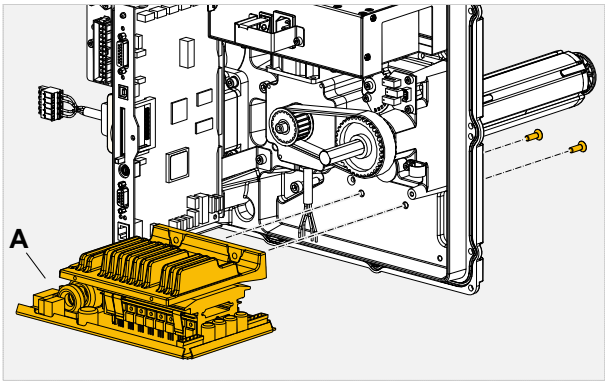
   a) Unscrew the two cable clamps (A):



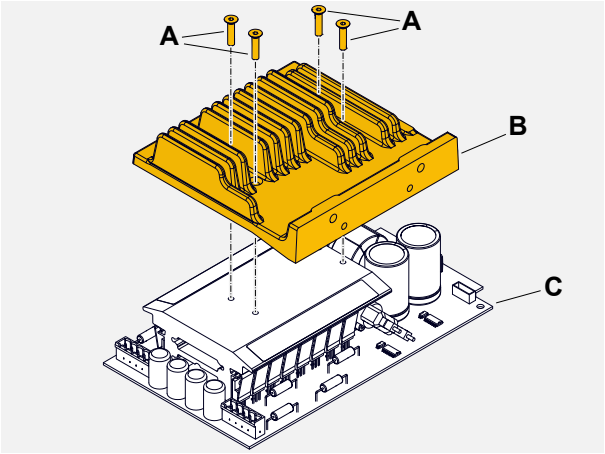
   b) Remove the cables from the cable clamps.

   c) Disconnect all 4 cables from the motor driver.

   d) Unscrew the motor driver and heat sink assembly (A) from the LMA base plate:



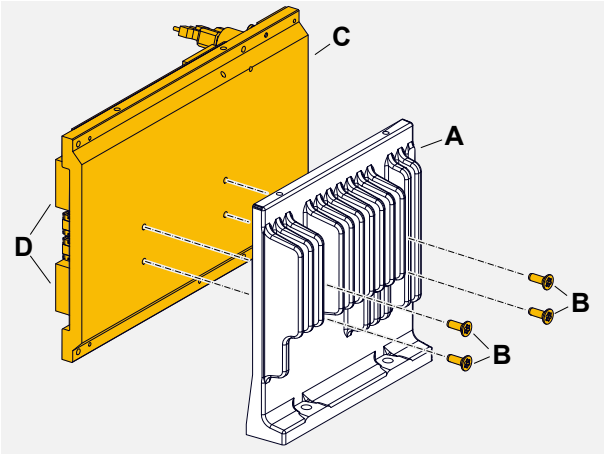
4. Unscrew the heat sink (B) from the motor driver (C). Set the screws (A) aside; they will no longer be used.



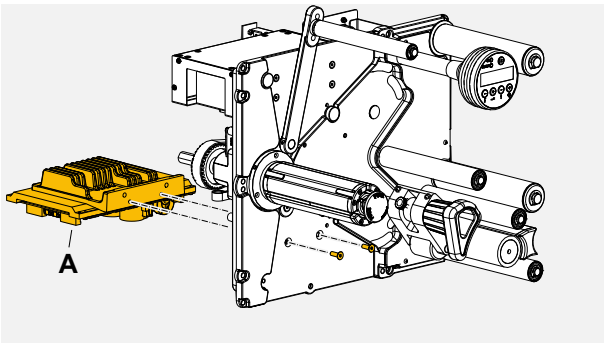
5. Screw the heat sink (A) onto the motor driver N103739 (C) from the conversion kit as shown:

   Use the Torx countersunk screws (B) from the conversion kit!

   The motor connections (D) point to the left as shown.

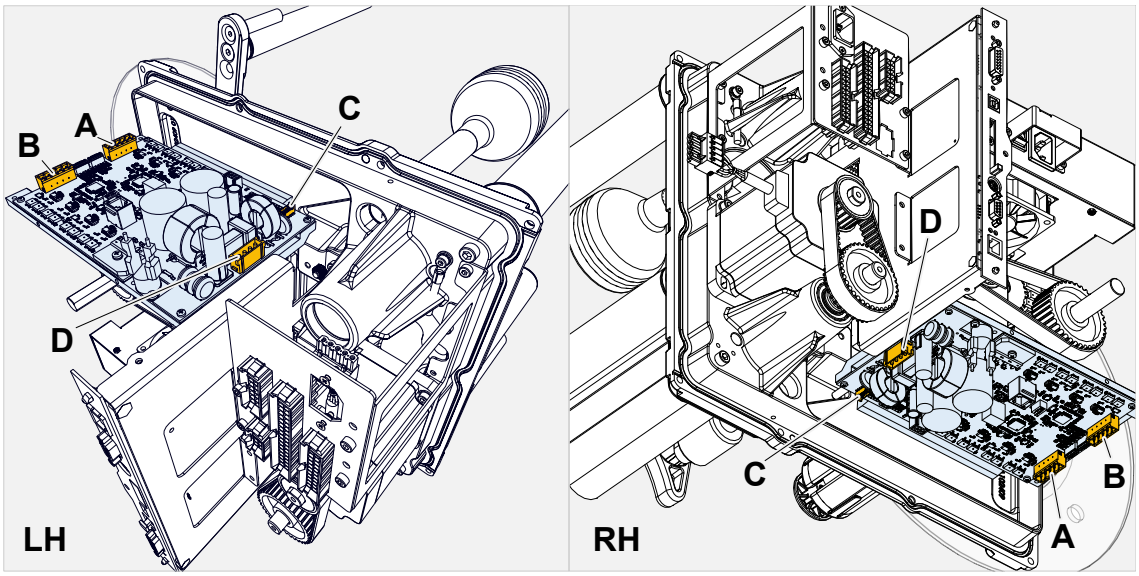


6. Screw the motor driver and heat sink (A) back onto the base plate of the LMA:



   The heat sink is reinstalled in the same position it was in before the conversion.

7. Connecting the motor driver:



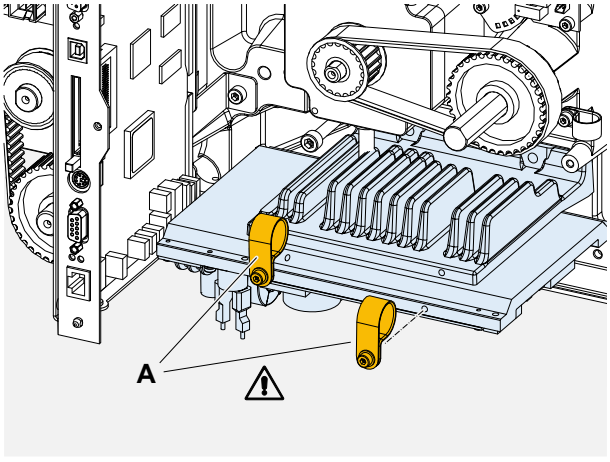
A	Feed motor (green connector; on circuit board: “Transport Motor”)
B	Rewinder motor (green plug; on circuit board: “Rewinder Motor”)
C	Connection CPU board (small white plug; cable: A6803)
D	Power supply connection (large white plug; cable: A8463)

To do this, proceed as follows:

a) Plug in and lay the cable.

> If necessary, existing cable ties must be removed to adjust the length of the cables.

b) Insert the cables into the cable clamps (A) and screw them in place as shown:



> The cable clamps are directed toward the heat sink and inward.
>
> Contrary to the illustration, the cables are located in the cable clamps when screwed on.

c) Secure the cables using the cable ties included in the kit so that they do not come into contact with moving parts.

8. Reinstall the LMA into the machine.
   For details, refer to the ALX 73x service manual, chapter “Dispenser (LMA) mechanics” > “Removing the LMA”.
9. Reinstall the guide disc.

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