

Technical Service Bulletin

TSB-IT 2012-092
Floor Cleaning Equipment

Subject: drive controller replacement

07-08-2012

Ref. ODM Nr: 4850

Models Affected	BA 451/531 - SCRUBTEC 5xx BA 551/611 - SCRUBTEC 6xx BA 651/751/851
Issue	Potential unexpected movement of the machine forward or backward for a short distance at full speed even after the operator has released the drive paddle/switches
Cause	Issue determined to be a defective resistor inside the drive controller, assembled by the manufacturer during 2010.
Affected drive controller	P/N 9096908000 (BA 451/531, SCRUBTEC 5xx, BA 551/611, SCRUBTEC 6xx) P/N 9097409000 (BA 651/751/851) from s/n to s/n 10 29XXXXXX→ 10 49XXXXXX
Affected machine	No direct link between the defective controller and the serial Nr of the machine. The machines produced during 'at risk' period are in the following range: BA 451/531, SCRUBTEC 5xx, from s/n to s/n 102817835→ 111031298 BA 551/611, SCRUBTEC 6xx from s/n to s/n 102315360→ 110830356 BA 651/751/851 from s/n to s/n 103018713→ 110930422

From: Alberto Rastelli

Email: floorcare-techsupport.it@nilfisk-advance.com

Page 1 of 8

Level of Urgency:

- 1: „High“ - Rework needs to be done immediately
 2: „Medium“ - Rework to be made at next possible occasion
 3: „Low“ - Rework to be done if necessary
 4: „General“ - General information

1

Technical Service Bulletin

TSB-IT 2012-092
Floor Cleaning Equipment

Subject: drive controller replacement

07-08-2012

Corrective Action: Factory	Inspected and quarantined all drive controllers in stock between the affected S/N's. Checked machines in stock and replaced the drive controller if found between the affected S/N range. While no failures have been reported on drive controllers outside of the affected S/N range, as a preventative measure the software in the drive controller has been revised to prevent any potential for uncontrolled machine movement should a resistor failure occur. Drive controllers with improved software implemented in production starting July 2012.
Corrective Action: Field	Check the drive controller S/N on every machine in affected range. Replace the drive controller if the S/N is within the affected range (10 29xxxxx to 10 49xxxxx)
Spare Parts	Replacement drive controller BA 451/531, SCRUBTEC 5xx, BA 551/611, SCRUBTEC 6xx – order same P/N 9096908000 Replacement drive controller BA 651/751/851 – order current P/N 9099606000 Drive controllers with the latest software are available at the EDC. All the controllers eventually in stock in the Sales Company must be checked, and scrapped if the serial Nr is within the affected range.

From: Alberto Rastelli

Email: floorcare-techsupport.it@nilfisk-advance.com

Page 2 of 8

Level of Urgency:

- 1: „High“ - Rework needs to be done immediately
- 2: „Medium“ - Rework to be made at next possible occasion
- 3: „Low“ - Rework to be done if necessary
- 4: „General“ - General information

1

Technical Service Bulletin

TSB-IT 2012-092
Floor Cleaning Equipment

Subject: drive controller replacement

07-08-2012

Instructions for board check



- 1)
Disconnect the battery power connector



- 2)
Locate the 4 Allen screws fixing the electrical compartment cover

From: Alberto Rastelli

Email: floorcare-techsupport.it@nilfisk-advance.com

Page 3 of 8

Level of Urgency:

- 1: „High“ - Rework needs to be done immediately
2: „Medium“ - Rework to be made at next possible occasion
3: „Low“ - Rework to be done if necessary
4: „General“ - General information

1

Technical Service Bulletin

TSB-IT 2012-092
Floor Cleaning Equipment

Subject: drive controller replacement

07-08-2012



3)

Use 4mm wrench as in the picture to unscrew the bottom screws



4)

Remove the cover and locate the drive controller

From: Alberto Rastelli

Email: floorcare-techsupport.it@nilfisk-advance.com

Page 4 of 8

Level of Urgency:

- 1: „High“ - Rework needs to be done immediately
- 2: „Medium“ - Rework to be made at next possible occasion
- 3: „Low“ - Rework to be done if necessary
- 4: „General“ - General information

1

Technical Service Bulletin

TSB-IT 2012-092
Floor Cleaning Equipment

Subject: drive controller replacement

07-08-2012



5)
Identify the label on the drive controller checking the circle the Serial Nr (S/N=Matr 1045 01352)

Drive controller affected:

P/N 9096908000 & 9097409000

from S/N	to S/N
10 29XXXXX	10 49XXXXX

Drive controller S/N is within the affected range → the drive controller must be replaced.
Proceed according to the replacement (ref. instructions in following pages)

Drive controller S/N is outside the affected range → the drive controller is OK.

Reinstall the electrical compartment cover (proceed in reverse order of the cover removal, step 4, 3, 2, 1)

Technical Service Bulletin

TSB-IT 2012-092
Floor Cleaning Equipment

Subject: drive controller replacement

07-08-2012

Instructions for drive controller replacement



a)
remove the connector



b)
unscrew the 4 screw (8mm wrench)
to remove the battery wire and drive
motor wire

From: Alberto Rastelli

Email: floorcare-techsupport.it@nilfisk-advance.com

Page 6 of 8

Level of Urgency:

- 1: „High“ - Rework needs to be done immediately
- 2: „Medium“ - Rework to be made at next possible occasion
- 3: „Low“ - Rework to be done if necessary
- 4: „General“ - General information

1

Technical Service Bulletin

TSB-IT 2012-092
Floor Cleaning Equipment

Subject: drive controller replacement

07-08-2012



c)
unscrew the 2 screw (8mm wrench)
to remove the drive controller
support plate



d)
unscrew the 4 screw (7mm x 2
wrench) to remove the board

From: Alberto Rastelli

Email: floorcare-techsupport.it@nilfisk-advance.com

Page 7 of 8

Level of Urgency:

1: „High“ - Rework needs to be done immediately
2: „Medium“ - Rework to be made at next possible
occasion
3: „Low“ - Rework to be done if necessary
4: „General“ - General information

1

Technical Service Bulletin

TSB-IT 2012-092
Floor Cleaning Equipment

Subject: drive controller replacement

07-08-2012



e)

install the new drive controller by preceding in reverse order of the removal (step d,c,b,a)

WHEN RE-SCREW THE 4 POWER CONTACT SCREWS (see picture b) TAKE CARE TO NOT TIGHT MORE THAN 3Nm.

From: Alberto Rastelli

Email: floorcare-techsupport.it@nilfisk-advance.com

Page 8 of 8

Level of Urgency:

- 1: „High“ - Rework needs to be done immediately
- 2: „Medium“ - Rework to be made at next possible occasion
- 3: „Low“ - Rework to be done if necessary
- 4: „General“ - General information

1