



Title: Exchange of a spiral cable on PS door system

1. Purpose:

The purpose of this service instruction is to describe how to change the spiral cable on a PS door system.

2. References:

2.1. ISO 9001 (2008) §7.5.1 Control of production and service provision

3. Definitions:

3.1. None

4. Forms:

4.1. None

5. Scope:

5.1. This work instruction applies to all PS door systems

6. Tools / Parts:

- 6.1. Spiral cable
- 6.2. Cable ties.
- 6.3. Pencil
- 6.4. Torx bit T50
- 6.5. 4mm hexagon L-key
- 6.6. 22mm open-ended spanner
- 6.7. Wire cutters

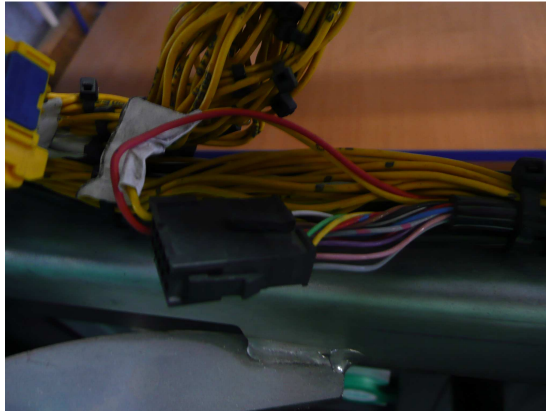
Revision no.	Date:		
1	04-06-2013	Description of the change:	First release
		Name & function:	Martin Kramer Service Employee

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7. Execution

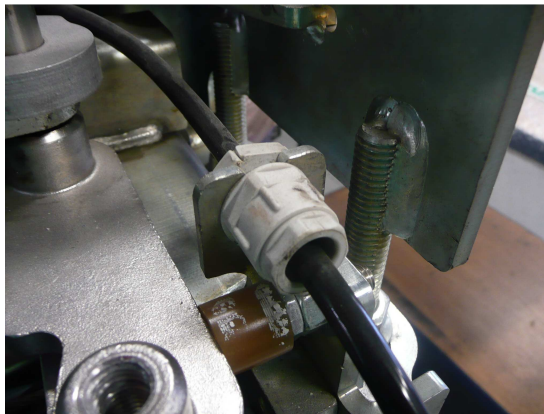
7.1. Removing of the spiral cable

- Disconnect the connector from the spiral cable from the counter part of the cable loom from the door mechanism (picture 1).

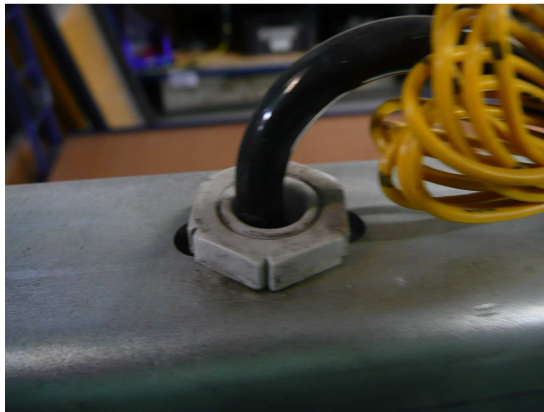


Picture 1

- Detach the swivel from the spiral cable and take it out of the frame (picture 2/3).



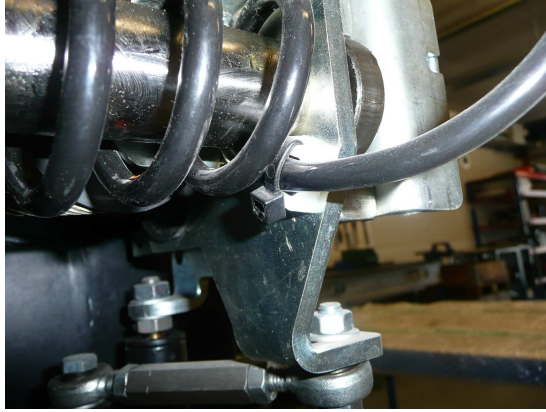
Picture 2



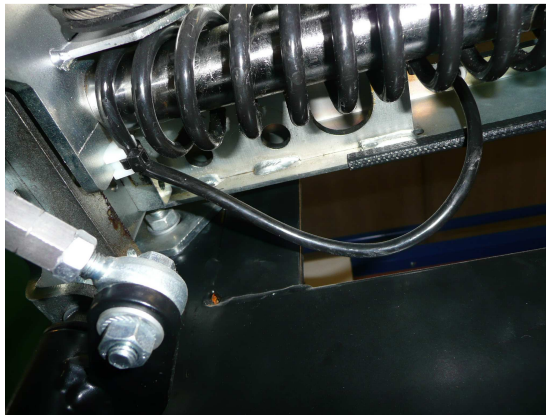
Picture 3

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- Cut the cable tie on the cable fixer (picture 4/5).



Picture 4



Picture 5

- Remove the screws from the cover plate, which is mounted on the bearing housing (picture 6).



Picture 6

- Remove the spiral cable from the shaft.

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- Mark the position of the door arm on the door leaf with a pencil (picture 7).



Picture 7

- Remove the door leaf from the bus by detaching the 4 Torx bolts from the door leaf (make sure the door leaf is secured so it won't fall).
- Disconnect the Molex connector of the spiral cable from the counterpart of the door leaf wiring.
- Pull the short piece of the spiral cable out of the door arm.

7.2. Mounting of the new spiral cable

- Turn the spiral cable on the shaft.
- Count the windings, maximum 26 windings / coils.
- Make sure the spiral cable is not twisted.
- Put the swivel on the spiral cable.
- Mount the cover plate together with the spiral cable on the bearing housing.
- Put the short end of the spiral cable through the door arm.
- Connect the Molex connector of the spiral cable to the Molex connector from the door leaf wiring.
- Mount the door leaf back on the door arm by using the 4 Torx bolts.
- For adjustment of the door leaf use the marking.
- Mount the swivel in the frame.
- Attach the spiral cable on the cable fixed by using a cable tie.
- Connect the Molex connector from the new spiral cable with the counter part from the cable loom.
- Attach the rest of the spiral cable to the mechanism with cable ties.
- Test the door on it's functions.