

**To be performed by a skilled or instructed person !**

**Disconnect the vacuum cleaner from the power supply before starting the work!**

**NOTE:** Observe correct operator protection in accordance to regulations against material kept in the filter or the bin. Push the filter shaker to clean the filter.

**GB 733/833: Removal and refitting of the upper container part**

To remove the upper part with motor and fan, unscrew the four screws from the top of the container. Lift away the upper motor/fan container part and place it carefully up-side-down.

**All models: Removal and refitting of the drivebelt adjustment (4)**

Unscrew the adjustment nut (1) and the stud bolt nuts (2) to release the turbine (3). Remove the existing drivebelt adjustment system (if needed) and replace with a new (4). Place the exhaust turbine stud (5) into the eye of the new eyebolt (6) into the eye of the new eyebolt

(6), the washer (9) and pre-mount the eye bolt with washer and nut (1) and the two stud bolts with washer and nut (7) before replacing the drivebelt (8). Mount the new drive belt (8) to the pulleys. The belt tension should be adjusted by the nut(1) and as instructed in the Optibelt 1 user manual, ref. no. 22242400. Lock the three stud bolt nuts (2) in the new position.

**Recommended tensioning of the drivebelt**

The initial tension must be 450N±50N and by re-installation of used drivebelt the re-tension must be 350N ±50N. Lock the three stud bolt nuts (2) in the new position.

**Removal and refitting of the drivebelt (8)**

Remove the worn drivebelt by cutting it free. Unscrew the adjustment nut (1) and release the three stud bolt nuts (2).Mount the new drive belt (8) to the pulleys.

The belt tension should be adjusted by the nut (1) and as instructed in the Optibelt 1 user manual, ref. no. 22242400. Lock the three stud bolt nuts (2) in the new position.

**Recommended tensioning of the drivebelt**

The initial tension must be 450N±50N and by re-installation of used drivebelt the re-tension must be 350N ±50N. Lock the three stud bolt nuts(2) in the new position.

**Replace in reverse order.**

**All models: Test after repair**

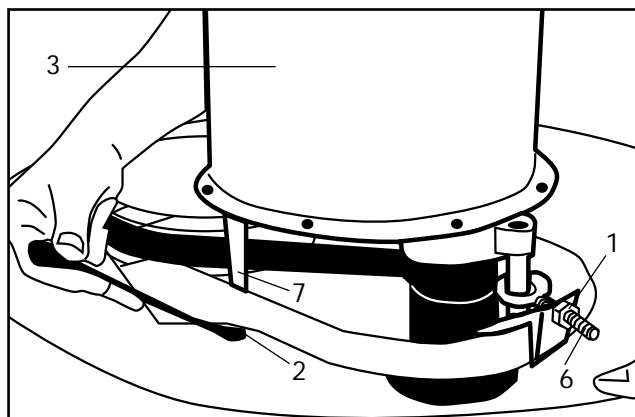
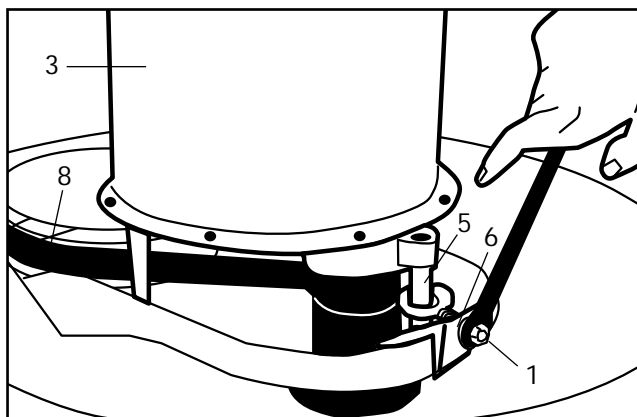
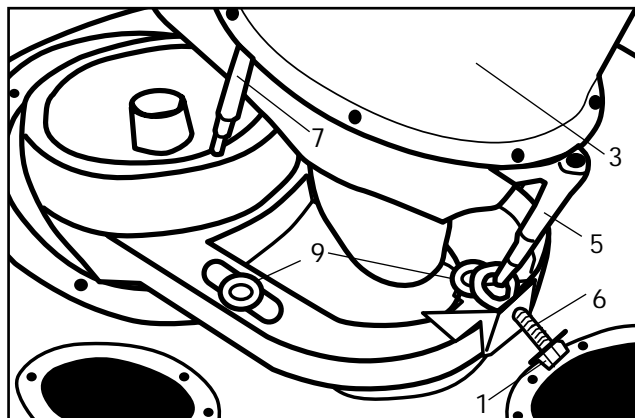
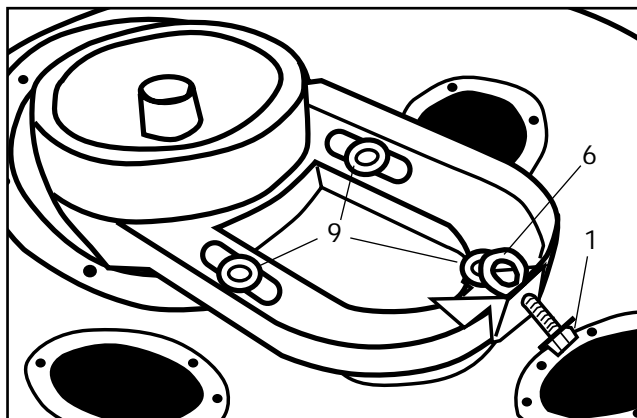
After repair, please check that the vacuum cleaner is functioning to Nilfisk specifications and any local authorised precautions. Special cautions should be made to ensure that the grounding wire is connected properly to the grounding terminal.

**Torque wrench settings**

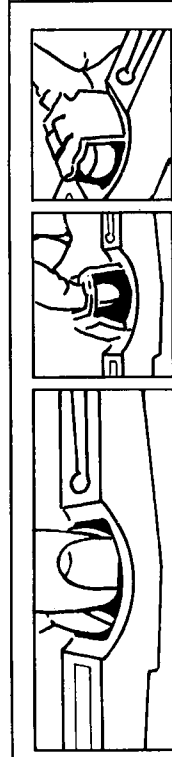
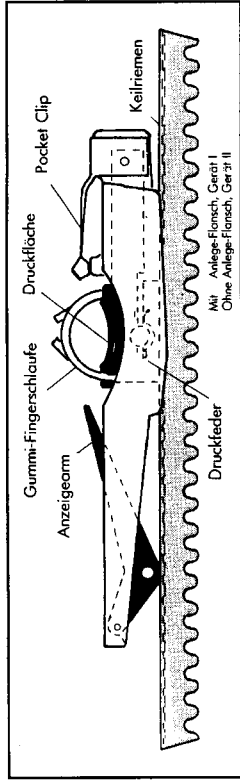
Upper container screws 4.5-5 Nm  
Drive belt nut(1) 22-25 Nm  
Stud bolt nut(2) 22-25 Nm

**Tool type**

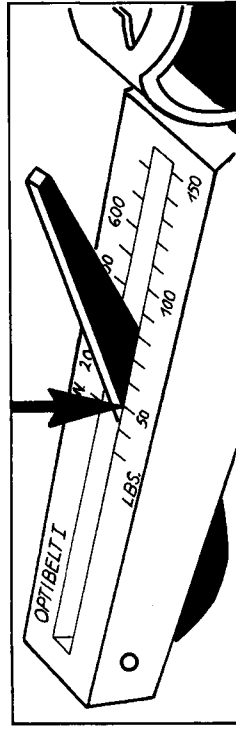
Screwdriver Pozidrive no. 2  
Metric spanner 13 mm  
Metric spanner 13 mm



**optibelt** Vorspannmeßgerät I und II - Bedienungsanleitung -



1. Es gibt drei Möglichkeiten, das Meßgerät zu bedienen. (siehe Abb.)
2. Das Meßgerät wird in der Mitte zwischen den beiden Schieben mit dem Flansch auf der Unterseite gegen die Riemenabkante auf den Riemen gelegt. (Vorher den Anzeigerarm voll in die Skalenfläche drücken.)  
Bei Gerät 2 (ohne Flansch) in die Mitte des Riemens legen.
3. Legen Sie das Gerät lose auf den zu messenden Riemen und drücken Sie nur mit **einem** Finger langsam in o. Weise (A, B oder C) auf die Druckfläche.
4. Vermeiden Sie die Berührung des Gerätes mit mehr als einem Finger während des Meßvorganges.
5. Fühlen oder hören Sie ein deutliches Klicken, bitte sofort den Druck einstellen, Anzeigerarm bleibt in gemessener Stellung stehen.

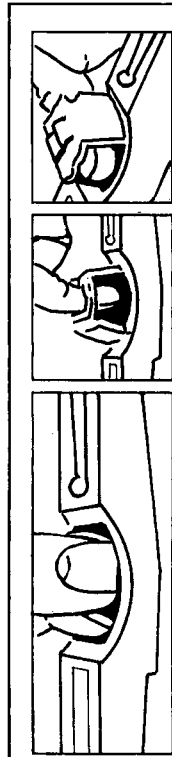
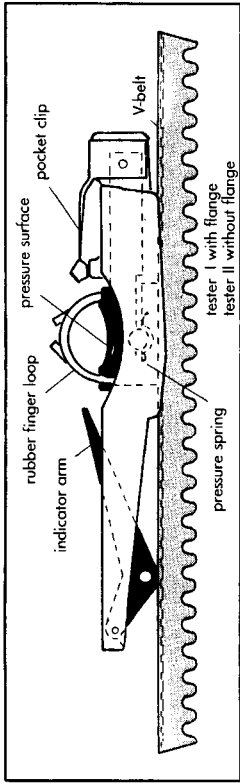


6. Das Gerät vorsichtig abheben ohne den Anzeigerarm zu bewegen, Riemen spannung ablesen (siehe Abb.).  
(Ablesen im Schnittpunkt der Oberkante des Anzeigerarms mit der Skalenfläche)
7. Zursicheren Ablesung können Sie die Stellung der Oberseite des Anzeigers mit dem Daumen nagel auf der Skala fixieren und das Gerät dann drehen.

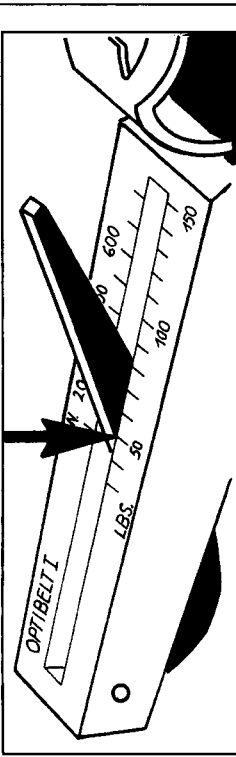
8. Verringern oder erhöhen Sie die Riemen spannung je nach Meßergebnis, bis sie innerhalb der gewünschten Spannung liegt.
  9. Vorspannungsempfehlung:  
Um ein optimales Ergebnis zu bekommen, spannen Sie die Riemen auf die von Optibelt empfohlene Spannung, z. B.:
- | Ausführung                   | Profil | Erstspannung | Nachspannung auf Trunkkraft * |
|------------------------------|--------|--------------|-------------------------------|
| Marathon 1 und Marathon 2M=S | AVX 10 | 400 ± 50 N   | 250 ± 50 N                    |
| Marathon 2M=S                | AVX 13 | 500 ± 50 N   | 300 ± 50 N                    |
- \* Bei erneuter Montage oder aus Gründen, die nicht in unserem Einflußbereich liegen, ist wie oben beschrieben zu spannen.

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**optibelt** Tension Testers I and II - Instructions for Use -



1. There are three ways to hold the tension tester (see above figures).
2. Position the tester on the belt midway between the two pulleys with the flange on the bottom against the upper edge of belt. Please take care that the indicator is completely pushed down in the tester body.  
Place tester II (without flange) in the middle of the belt and parallel with the belt sides.
3. Position the tester loosely on the belt to be measured and push slowly with **one** finger in the above way (A, B, C) on the pressure surface.
4. Please avoid contact of tester with more than one finger during the measuring process.
5. When you feel or hear a CLICK, stop pressing immediately - the indicator arm remains in measured position.



6. Remove tester carefully so that indicator arm is not moved, read belt tension (please see figure).  
(Read where the top surface of the indicator arm crosses the scale.)
7. For safe reading mark the spot of the upper side of the indicator with a thumbnail on the scale and then turn the tester sideways.
8. Increase or decrease the belt tension depending upon the measuring result until it is within the desired tension.

9. Recommendations for initial tensioning:  
To get an optimum result please tension the belt to the tension recommended by Optibelt, e.g.:
- | Construction                 | Section | Initial tension | Re-tension on span force * |
|------------------------------|---------|-----------------|----------------------------|
| Marathon 1 and Marathon 2M=S | AVX 10  | 400 ± 50 N      | 250 ± 50 N                 |
| Marathon 2M=S                | AVX 13  | 500 ± 50 N      | 300 ± 50 N                 |
- \* In case of a re-installation or for reasons beyond our influence please tension as described above.

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