

## 5. Calibration

### 5.1 Calibrating the oil/UV dye scales

**i** The calibration weight part number is F 002 DG1 416.

1. Connect the power cable to the mains supply.
2. Switch on the mains supply.
3. Turn on the power switch on the ACS 600/601/650.
4. From the main menu, select "**ACS Settings**" and press **←**.  
⇒ The settings selection menu is displayed.
5. Press **←**.
6. Enter the password **227**.  
⇒ The **Calibration** menu is displayed.
7. Select "**Balance Calibration**" and press **←**.
8. Select the scales that needs to be calibrated and press **←**.
9. Follow the instructions on the screen.

**i** If you are calibrating the oil bottle or UV contrast medium scales, attach the calibrating weight to the respective scales.

**i** The calibrating weight has two connectors. One of the connectors is used for calibrating fresh oil scales and UV dye scales and the other connector is used for calibrating used oil scales. The method of fixing the calibrating weight to the scales is depicted in the following figures.

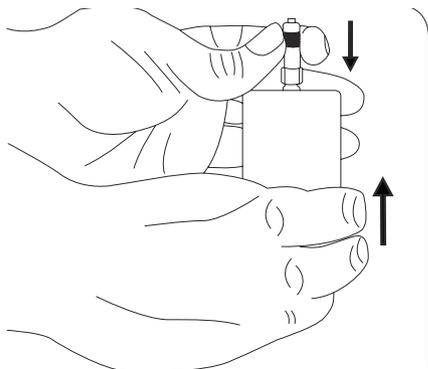


Fig. 5: Attaching the calibrating weight for the fresh oil/UV dye scales

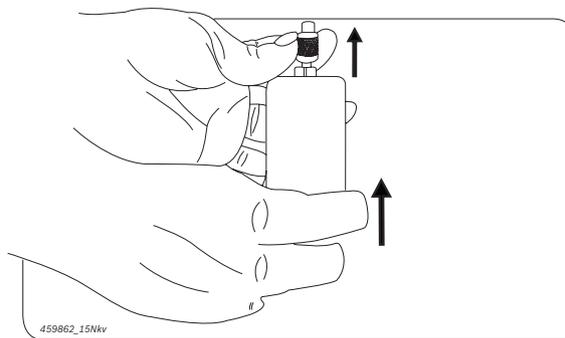


Fig. 6: Attaching the calibrating weight for the used oil scales

10. After the calibration is complete, detach the calibrating weight.
11. Fix the respective bottle back into position.  
→ The calibration is complete.

### 5.2 Calibrating the R134a tank scales

**i** This procedure is applicable only for software with version number format X.X.X.39.XX.

1. Switch off the ACS 600/601/650.
2. Disconnect the power cable from the mains supply.
3. Open the rear panel.

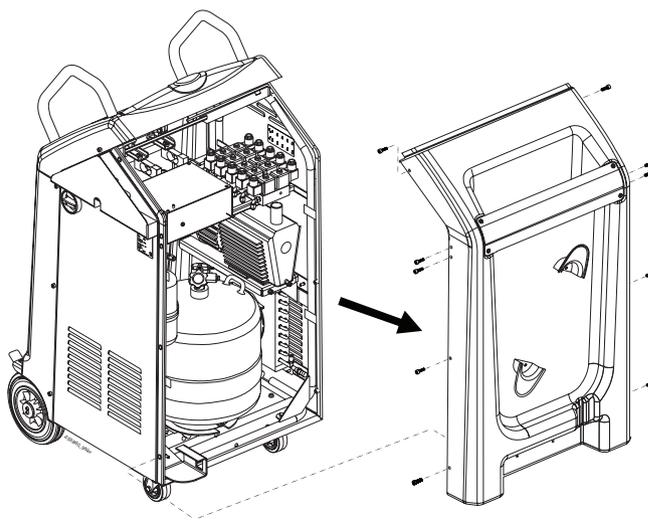
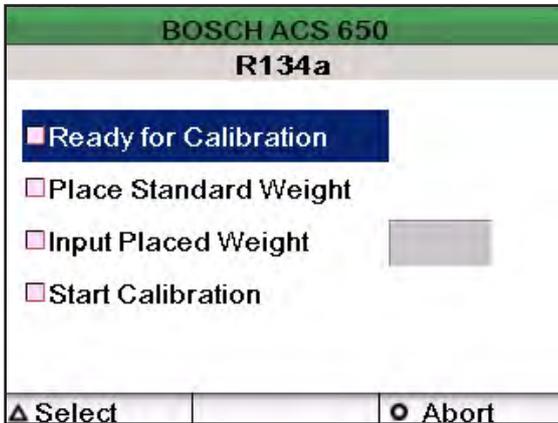


Fig. 7: Opening the rear panel

4. Connect the power cable to the mains supply.
5. Switch on the mains supply.
6. Turn on the power switch on the ACS 600/601/650.
7. Press the **i** key. Note the quantity of R134a displayed on the screen.
8. From the main menu, select "**ACS Settings**" and press **←**.  
⇒ The **ACS Settings** selection menu is displayed.

9. Press ←.
10. Select "**Balance Calibration**" and press ←.
11. Enter the password **227**.  
⇒ The **Sensor Select** menu is displayed.
12. Press ←.  
⇒ The following screen is displayed.



13. Select "**Ready for calibration**".
14. Fix the calibrating weight (Fig. 10, Pos. 1) to the neck of the cylinder (Fig. 10, Pos. 2).
15. Select "**Place Standard Weight**".

 Use calibrating weight of 5 kg (Part number F 002 DG1 525).

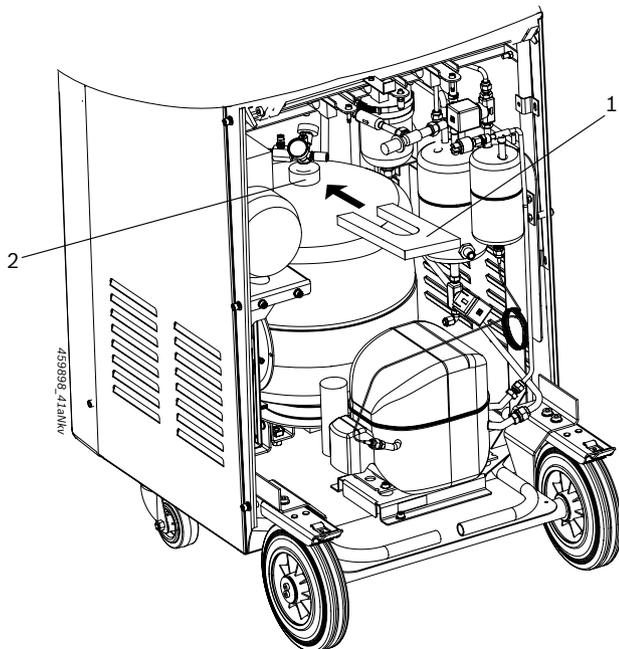


Fig. 8: Placing the calibrating weight

- 1 Calibrating weight
- 2 Neck of the cylinder

16. Select "**Input Standard Weight**" and enter the value of the calibrating weight.
17. Select "**Start Calibration**". When the calibration is complete, the message is **Calibration Complete** is displayed.

 The calibration can be performed regardless of the refrigerant quantity in the cylinder.

18. Remove the calibrating weight from the cylinder. Observe the value of the R134a displayed on the screen.  
⇒ The displayed value should be the same as noted in step 7.
  19. Place a standard weight on the cylinder.
  20. Press the **i** key.  
⇒ The displayed quantity of R134a should be equal to the sum of the weight noted in step 7 and the standard weight placed on the cylinder.
  21. Check linearity by incremental quantity.
  22. Remove the standard weight from the cylinder.
  23. Disconnect the power cable from the mains supply.
  24. Disconnect the power cable from the power socket.
  25. Close the rear panel.
- ➔ You have successfully calibrated the scale for the refrigerant tank.