

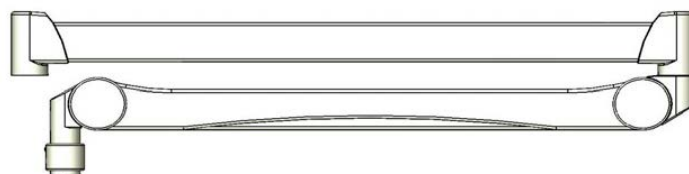


SUSPENSION ARM INSTRUCTIONS

models: Acrobat 2000 & Type 77

These instructions describe how to service and maintain suspension arms

Acrobat 2000 suspension arm - pages 4 to 11



Type 77 suspension arm - pages 12 to 23



PLEASE RETAIN THESE INSTRUCTIONS

**USE THE APPROPRIATE SERVICE KIT WHEN
CONDUCTING PROCEDURES**

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Service kit options

Note: Dependent upon the procedures to be undertaken, the relevant service kit should be used

#300/ARM/SERVICE-01 – complete service kit for models Acrobat 2000 and Type 77

comprising:-

- 2 x pairs of plastic cover
- 2 x circlip
- 1 x 5 mm across flats Allen key
- 1 x angled securing tag & M4 x 8 mm pan head screw
- 1 x M3 x 6 mm raised head countersunk Philips screw
- 1 x M4 x 12 mm countersunk screw
- 1 x M4 x 10 mm pan head screw
- 1 x M4 serrated lock washer
- 1 x grease
- 4 x securing segments (only 1 to be used)

#300/ARM/SERVICE-02 – securing segment kit for models Acrobat 2000 and Type 77

comprising:-

- 4 x securing segments (only 1 to be used)
- 1 x M4 x 12 mm countersunk screw
- 1 x M4 x 10 mm pan head screw
- 1 x M4 serrated lock washer

Suspension arm maintenance schedule

The maintenance schedule, warning notices and notes below, relate to suspension arms type **Acrobat 2000** and **Acrobat 77**.

Note: It is important that the suspension arm is maintained correctly. Failure to ensure that the following procedures are undertaken may result in damage to property or injury. Kenex suspended systems are manufactured in accordance with requirements of IEC 60601-1. Repeated inspections must be carried out in accordance with IEC 62353.

WARNING

Do not remove any suspended device from the suspension arm without first ensuring that the vertical movement is restricted to the horizontal position. To do otherwise will cause the arm to move up with force and could cause damage or injury.

Important - Ensure the following:-

- All power sources are disconnected and prevented from being reconnected whilst maintenance is conducted
- Inspection must be performed by competent personnel
- Inspection intervals must be observed
- After 10 years, conduct the 36 month procedure annually

Every 12 months – The complete suspended system

- Check that parts are not deformed
- Check that there are no defects in the paint / surface finish
- Check that all plastic covers are in place and free from cracks
- Check that all identification numbers and serial labels are clearly visible
- Check suspension arm counterbalance and height settings, adjust if required
- Ensure all moving parts are smooth running and performing correctly, grease or replace if required

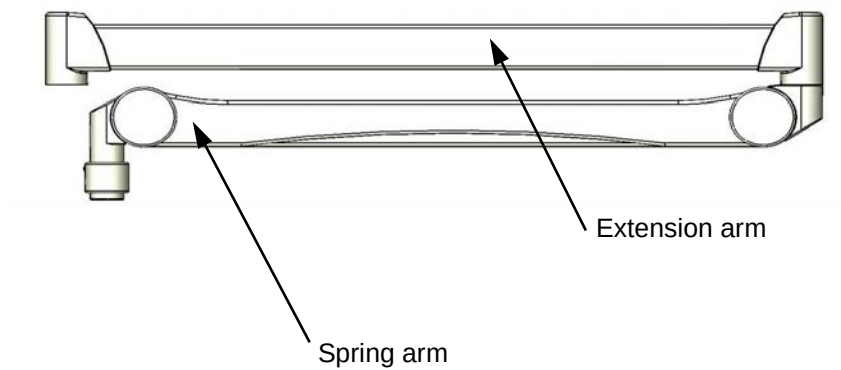
Every 36 months – The complete suspended system

- Check the dimensions of the suspension arm securing segment and grease. (Acrobat 2000 suspension arm - section 6 step 2. Type 77 suspension arm - section 13 step 3)
- Grease the suspended device journal
- Check that the circlip at the extension / spring arm joint is fully located in a groove. Acrobat 2000 suspension arm - section 4 step 2 or Type 77 suspension arm - section 11 step 2)
- If symptoms of a significant collision are apparent, remove from service and check structural integrity

Note: Replacement suspension arm parts are available from Kenex.

Acrobat 2000 suspension arm

pages 4 to 11



WARNING

Before service or maintenance, disconnect any power supply to the suspension arm & suspended device. Protect supply from being switched on during this time.

Do not remove any suspended device from the suspension arm without first ensuring that the vertical movement is restricted to the horizontal position. To do otherwise will cause the spring arm to move up with force and could cause damage or injury.

1. Removing a suspended device

Step 1

WARNING

Do not separate the suspended device from the spring arm before steps 1 to 3 inclusive are completed.

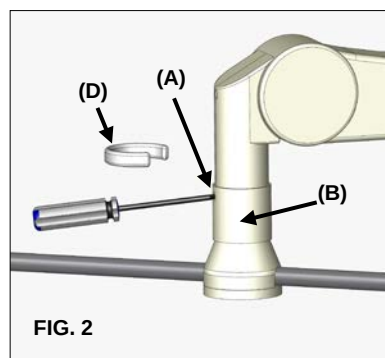
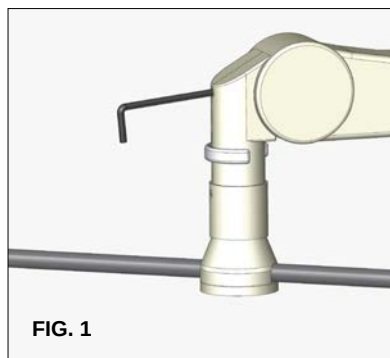
Refer to FIG. 1. Adjust the spring arm until it cannot move upwards beyond the horizontal. To do this pull the arm down slightly, insert the long end of the 5 mm across flats Allen key into an opening in the end of the spring arm as shown and turn clockwise (viewed from the end) until upward movement is restricted to this position.

Step 2

WARNING

Do not pull the spring arm down below the horizontal when uncoupling the device, as it will rapidly move back up if not held and may cause injury. Once the segment (C) (step 4) is removed from the arm, the suspended device will fall if not supported.

Refer to FIG. 2. Remove and retain the collar limiting snap ring (D) (if fitted). Remove and retain the M3 x 6 mm raised head countersunk Philips screw (A) (FIG. 2a) from the retaining collar (B). Do not move the collar at this stage.

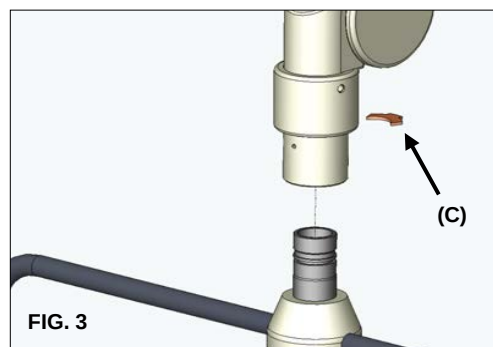


Step 3

With vertical lift of the spring arm limited to the horizontal position and whilst supporting the weight of the device, slide the collar (B) upwards. Do not remove the securing segment (C) at this stage.

Step 4

With the spring arm at the constrained horizontal position and whilst still supporting the device, pull out (and retain) the exposed retaining segment (C) from the arm to release the device, see FIG. 3. Remove and store the device.



WARNING

Do not remove the suspended device unless the upward movement of the spring arm is first limited to the horizontal position.

Step 5

Remove and retain collar (B).

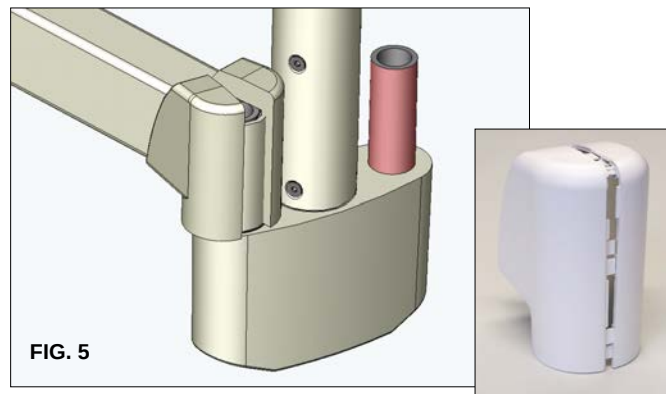
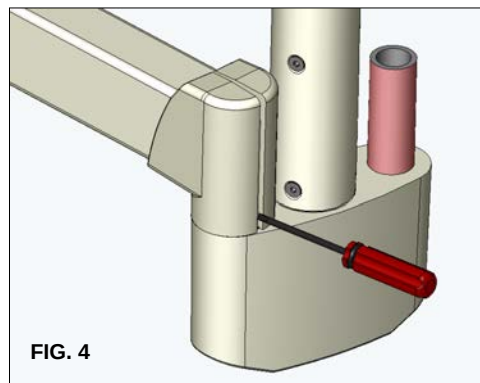
2. Removing a suspension arm - from its mounting pivot

Step 1

WARNING

Before commencing this procedure, ensure that the suspended device is removed, and that the spring arm cannot move up above the horizontal position.

Refer to FIG. 4 & 5. Remove the plastic covers from the end of the extension arm, (shown here on a ceiling column). This is achieved by pushing a small flat screwdriver into the joint between the two halves starting approximately 8 mm from its bottom edge and pulling apart.



Step 2

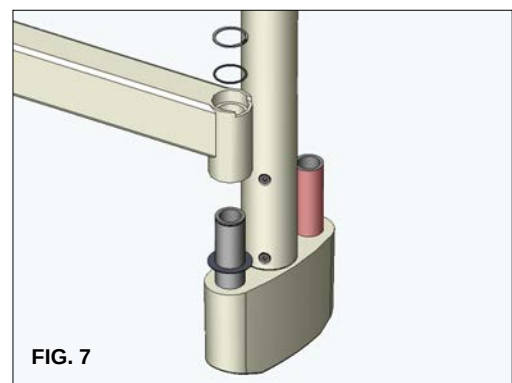
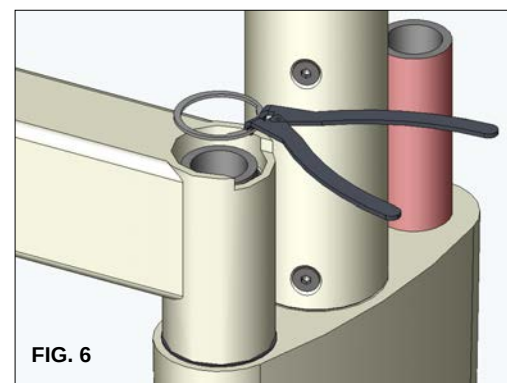
Unplug the electrical connection socket (if applicable) located where the extension arm meets the mounting pivot.

Step 3

Refer to FIG. 6 & 7. Using circlip pliers remove and discard the circlip securing the extension arm to the pivot (a new circlip should be used when reattaching). Remove and retain the 38.9 mm (outside diameter) washer under the circlip.

Step 4

With the spring arm positioned beneath the extension arm, carefully lift the complete arm from the pivot. Ensure that the 47.9 mm (outside diameter) remains on the pivot (check that grease hasn't caused the washer to adhere to the arm).



Step 5

Clean the mounting pivot and extension arm journal. Inspect condition.

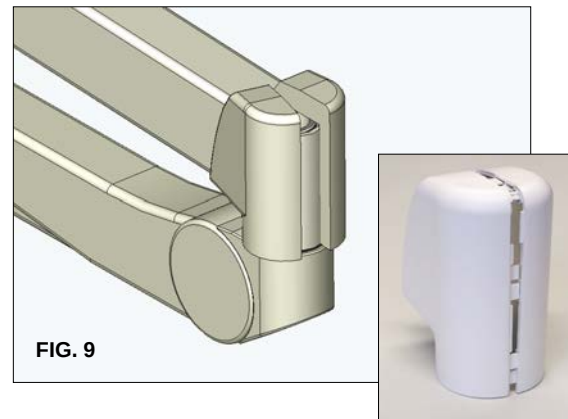
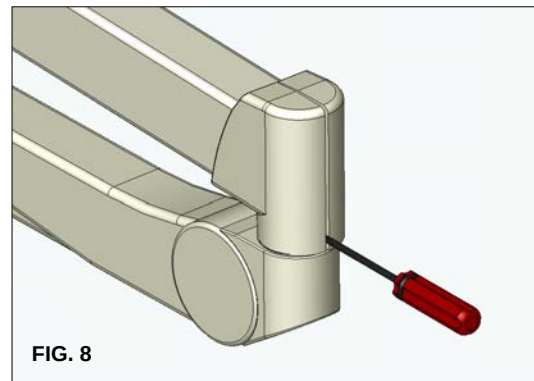
3. Separating a spring arm from an extension arm

Step 1

WARNING

Before commencing this procedure, ensure that the suspended device is removed and the suspension arm is removed from its mounting pivot. Ensure that the spring arm cannot move up above the horizontal position.

Refer to FIG. 8 & 9. Remove the plastic covers from the end of the extension arm where it joins the spring arm. This can be achieved by pushing a small flat screwdriver into the joint between the two halves approximately 8 mm from its bottom edge.



Step 2

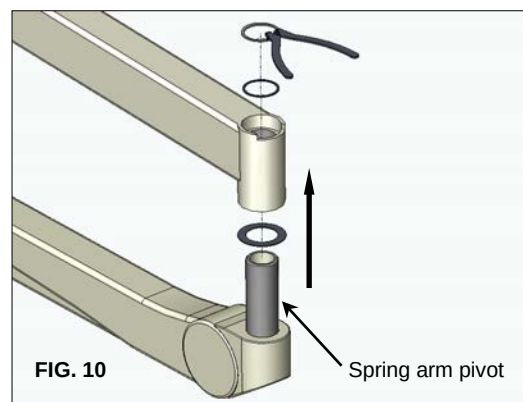
Unplug the electrical connection socket (if applicable) located where the spring arm meets the extension arm.

Step 3

Refer to FIG. 10. Using circlip pliers remove and discard the circlip securing the spring arm to the extension arm (a new circlip should be used when reattaching the two parts). Remove and retain the 38.9 mm (outside diameter) washer under the circlip. Ensure the 47.9 mm diameter washer remains in place.

Step 4

Separate the spring arm from the extension arm.



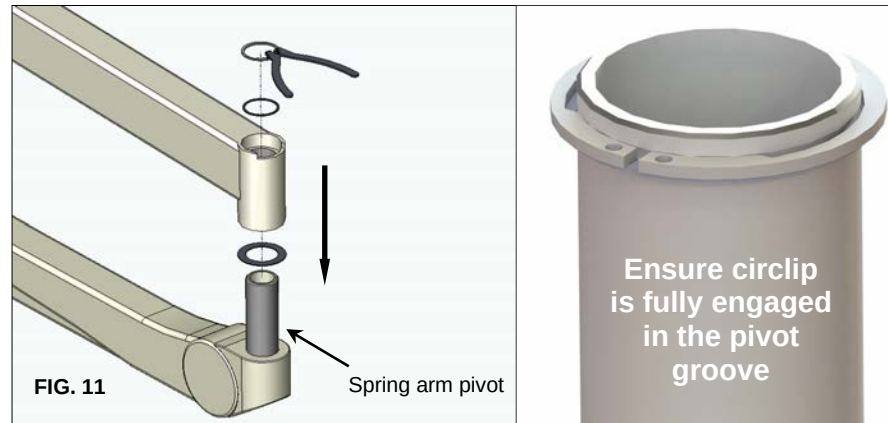
Step 5

Clean the spring arm pivot and extension arm journals. Inspect condition.

4. Reattaching a spring arm to an extension arm

Step 1

Refer to FIG. 11. Apply grease around the spring arm pivot and slide it through the end of the extension arm.



Step 2

WARNING

It is important to ensure that the circlip is fully engaged in the groove around the top of the spring arm pivot.

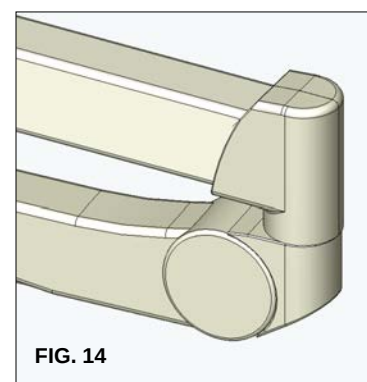
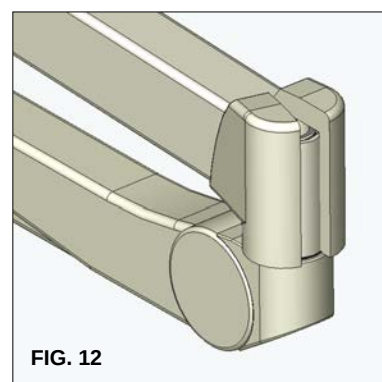
Refer to FIG. 11. Place the 38.9 mm outside diameter washers onto the spring arm pivot and use circlip pliers to fit a new circlip into the pivot groove.

Step 3

Reattach the electrical connection (if applicable). Ensure that the plug and cable are undamaged and that the plug is fully seated.

Step 4

Reattach the plastic covers around the end of the spring arm where it meets the extension arm. Refer to FIG. 12, 13 & 14. Ensure the small locking tags are in position and press the two halves together.



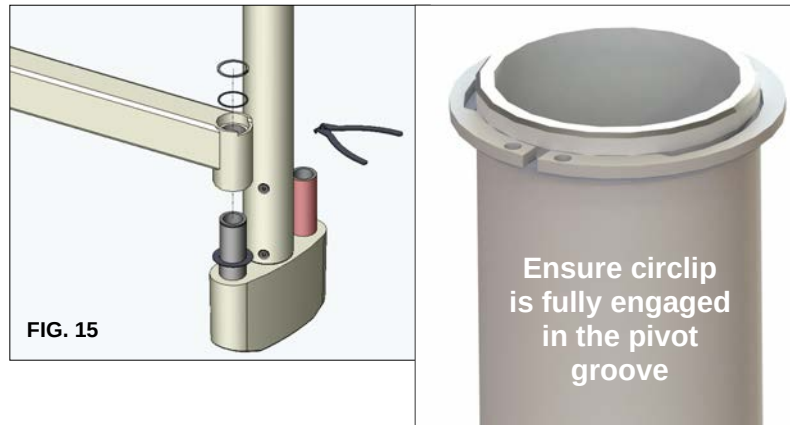
5. Mounting a suspension arm - onto its mounting pivot

Step 1

Thoroughly clean the mounting pivot point of all grease.

Step 2

Refer to FIG. 15. Ensure the retained 47.9 mm (outside diameter) washer is on the pivot. Apply grease to the pivot and slide the complete arm onto it ensuring that it is fully located.



Step 3

WARNING

It is important to ensure that the circlip is fully engaged in the groove around the top of the mounting pivot.

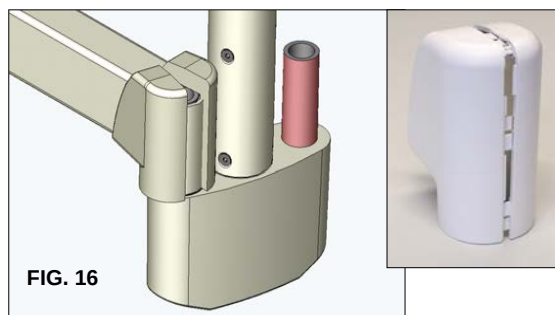
Place the 38.9 mm outside diameter washers onto the spring arm pivot and use circlip pliers to fit a new circlip into the pivot groove.

Step 4

Reattach the electrical connection (if applicable). Ensure that the plug and cable are undamaged and that the plug is fully seated.

Step 5

Refer to FIG. 16. Re-attach the plastic covers around the end of the extension arm. Ensure the small locking tags are in position and press the two halves together.



6. Attaching a suspended device

Step 1

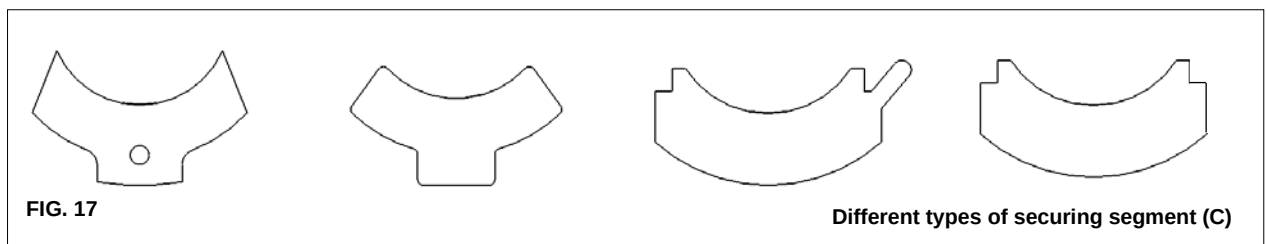
WARNING

Ensure upward movement of the spring arm is restricted to the horizontal. The suspended device should be attached when the arm is in this position, with height adjustments made afterwards. If the spring arm is pulled down below the horizontal before the device is properly attached and the arm is not held, it will rapidly move upwards which could cause injury or damage.

Refer to FIG 18. Slide retaining collar (B) onto the device end of the spring arm with the hole used to secure it uppermost.

Step 2

Check the thickness of the retaining segment (C). Ensure a minimum thickness of 1.5 mm. If the segment is below minimum size, replace with a new segment included in the service kit. Ensure it matches exactly the one to be replaced (see FIG. 17).



Step 3

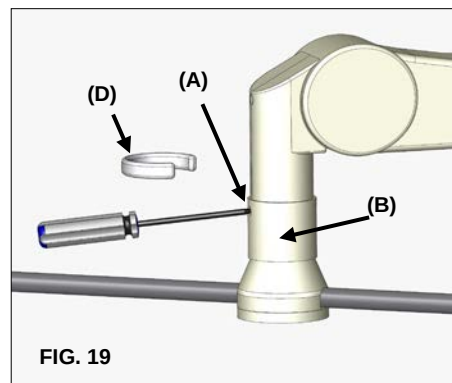
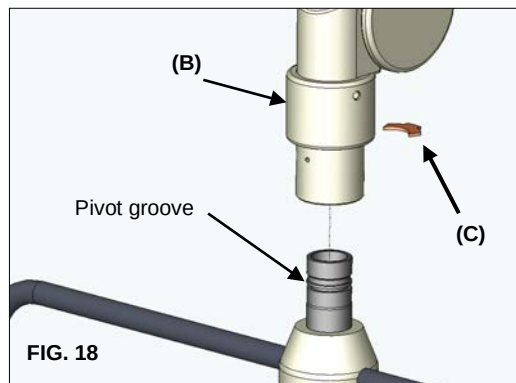
Apply grease to the retaining segment (C).

Step 4

WARNING

When attaching the device to the spring arm, it is important to ensure that the retaining segment (C) is fully engaged through the slot in the spring arm and into the groove in the device pivot. The retaining collar must also be located correctly. Failure to ensure this may result in the device becoming detached from the arm resulting in injury or damage.

Refer to FIG. 18 & 19. Apply grease to the device pivot and slide it into the spring arm when the arm is at the constrained horizontal position. Re-attach the device by inserting the segment (C) through the spring arm slot. Ensure the segment is in the pivot groove and slide the collar (B) down, fix with the M3 x 6 mm raised head countersunk Philips screw (A) and tighten to 0.5 Nm (do not over tighten and do not apply Loctite®). Reattach the collar limiting snap ring (D) if supplied.



7. Suspension arm adjustments

7.1 Suspension arm height adjustments

Step 1

Refer to FIG. 20. Inset the long end of a 5 mm across flats Allen key into an opening in the spring arm at the end above the suspended device.

Pull the spring arm down slightly and turn the Allen key anti-clockwise (viewed from the arrow). Continue adjusting by first moving the arm down then turning the key until the desired maximum height is obtained.

Check that the arm cannot collide with anything and readjust if required.

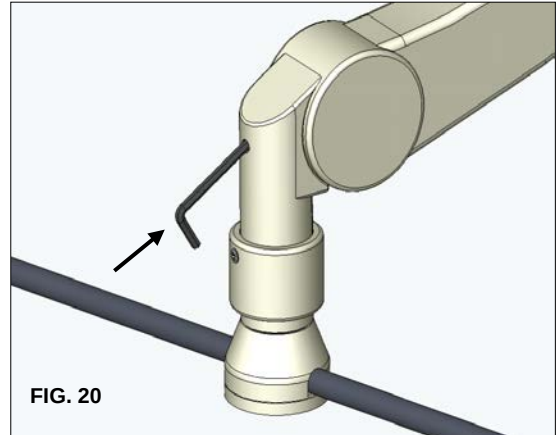


FIG. 20

Step 2

Move the device up & down to its maximum positions and readjust if required.

7.2 Spring arm counterbalance adjustments

Step 2

Refer to FIG. 21. If the device does not maintain the required height, the weight capacity counterbalance should be adjusted. This is carried out by inserting the long end of a 5 mm across flats Allen key into an opening in the spring arm at the end under the extension arm.

Hold the spring arm up at an angle of approximately 30 degrees above the horizontal and turn the Allen key as specified below (when viewed from the arrow).

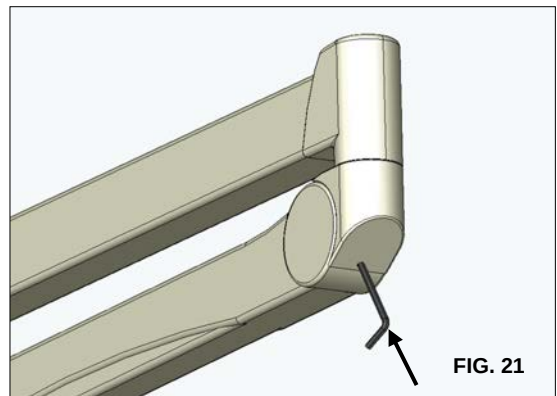


FIG. 21

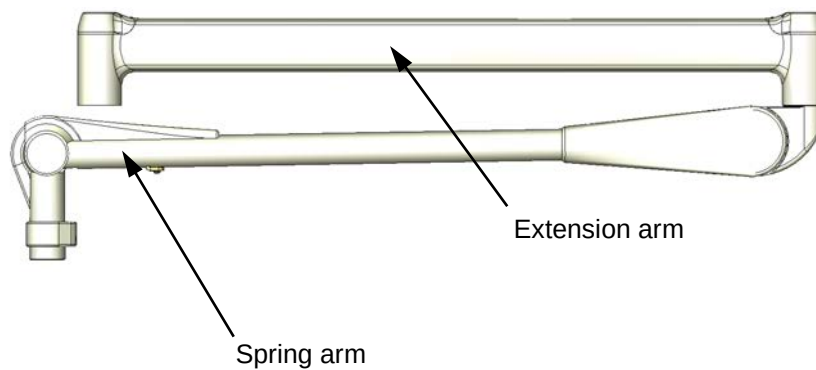
- If the device moves downwards too easily turn **anti-clockwise**.
- If the device moves upwards too easily turn **clockwise**.

Step 2

Move the device up & down to its maximum positions and readjust if required.

Type 77 suspension arm

pages 12 to 23



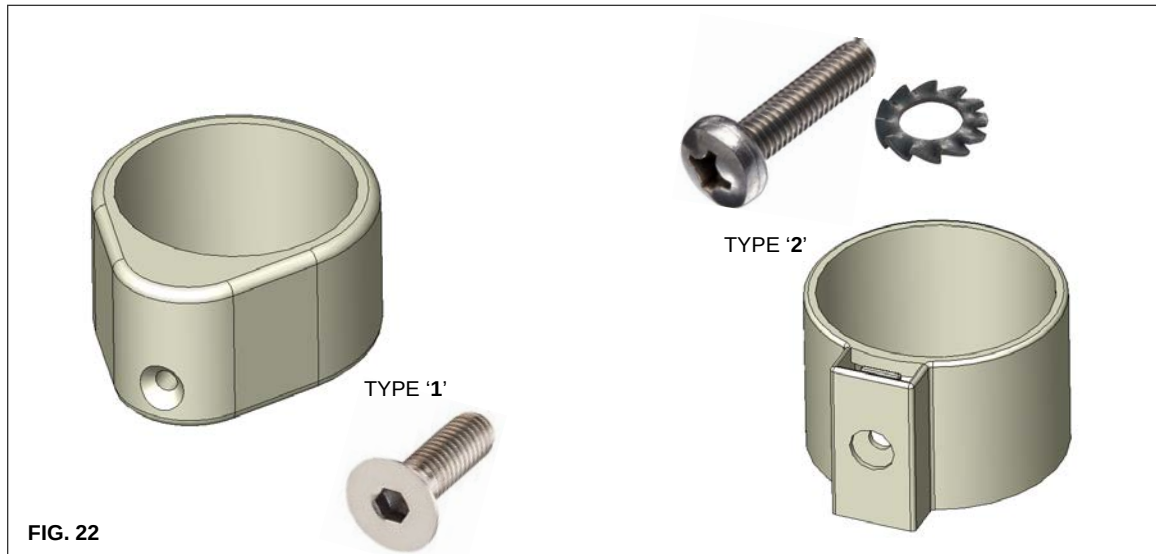
WARNING

Before service or maintenance, disconnect any power supply to the suspension arm & suspended device. Protect supply from being switched on during this time.

Do not remove any suspended device from the suspension arm without first ensuring that the vertical movement is restricted to the horizontal position. To do otherwise will cause the spring arm to move up with force and could cause damage or injury.

8. Removing a suspended device

Note: Refer to FIG. 22. If the retaining collar on the subject spring arm has retaining collar and screw type '1', proceed to step 1. If it has retaining collar, screw and serrated washer type '2', proceed to step 1a.



Step 1 - Retaining Collar Type '1'

WARNING

Do not separate the suspended device from the spring arm before steps 1 to 3 inclusive are completed.

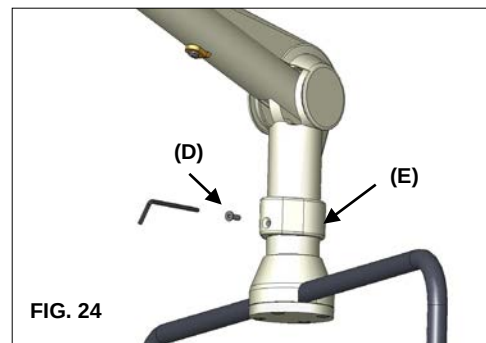
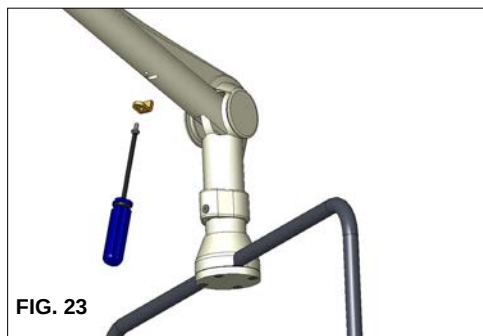
Refer to FIG. 23. Stop the spring arm from moving upwards beyond the horizontal. To do this, pull the arm fully down and insert the angled securing tag into the slot on the underside of the spring arm, and fix it in place using the M4 x 8 mm pan head screw provided.

Step 2

WARNING

Do not pull the spring arm down below the horizontal when uncoupling the device, as it will rapidly move back up if not held and may cause injury. Once the segment (F) (step 4) is removed from the arm, the suspended device will fall if not supported.

Refer to FIG. 24. Remove and retain the M4 x 12 mm countersunk screw (D) from the retaining collar (E). Do not move the collar at this stage.

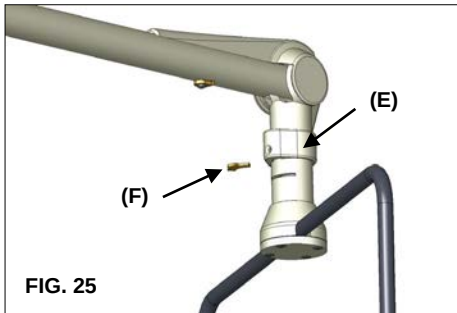


Step 3

With vertical lift of the spring arm limited to the horizontal position and whilst supporting the weight of the device, slide up collar (E) upwards. Do not remove the securing segment (F) at this stage.

Step 4

With the spring arm at the constrained horizontal position and whilst still supporting the device, pull out (and retain) the exposed retaining segment (F) from the arm to release the device, see FIG. 25. Remove and store the device.

**WARNING**

Do not remove the suspended device unless the upward movement of the spring arm is first limited to the horizontal position.

Step 5

Remove the collar (E) and retain.

Step 1a - Retaining Collar Type '2'**WARNING**

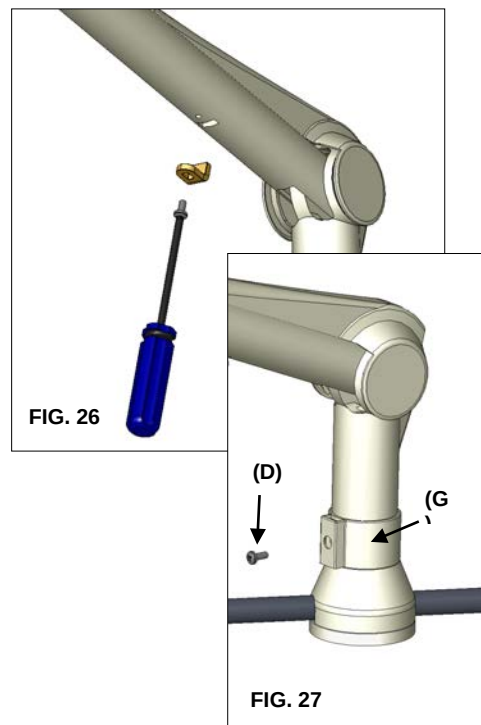
Do not separate the suspended device from the spring arm before steps 1a to 3a inclusive are completed.

Refer to FIG. 26. Stop the spring arm from moving upwards beyond the horizontal. To do this, pull the arm fully down and insert the angled securing tag into the slot on the underside of the spring arm, and fix it in place using the M4 x 8 mm pan head screw provided.

Step 2a**WARNING**

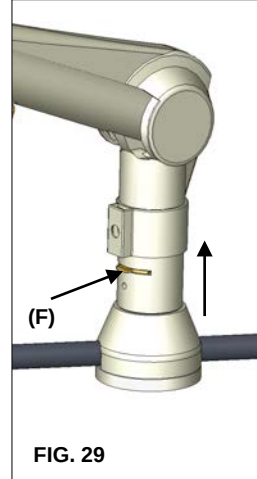
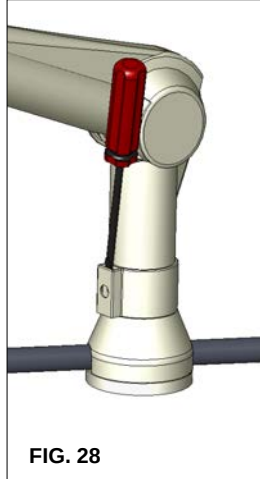
Do not pull the spring arm down below the horizontal when uncoupling the device, as it will rapidly move back up if not held and may cause injury. Once the segment (F) (step 4a) is removed from the arm, the suspended device will fall if not supported.

Refer to FIG. 27. Remove and retain the M4 x 10 mm pan head screw with serrated washer (D) from the retaining collar (G). Do not move the collar at this stage.

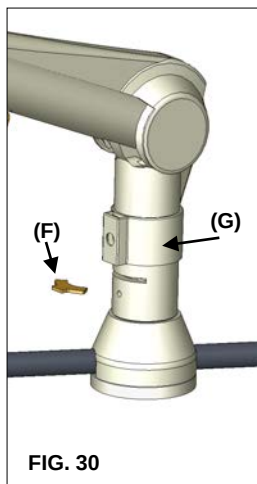


Step 3a

Refer to FIG. 28 & 29. With the spring arm at the constrained horizontal position and whilst supporting the weight of the device, use a small flat blade screwdriver to push outwards a plastic tag located in a pocket in the collar and slide it upwards to reveal the retaining segment (F). Do not remove the segment at this stage.

**Step 4a**

Refer to FIG. 30. With the spring arm at the constrained horizontal position and whilst still supporting the device, pull out (and retain) the exposed retaining segment (F) from the arm to release the device. Remove and store the device.

**WARNING**

Do not remove the suspended device unless the upward movement of the spring arm is first limited to the horizontal position.

Step 5a

Remove the collar (G) and retain.

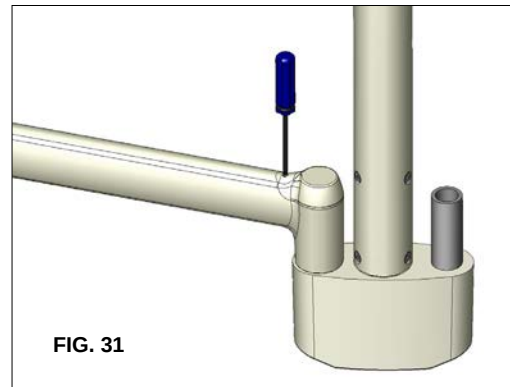
9. Removing a suspension arm - from its mounting pivot

Step 1

WARNING

Before commencing this procedure, ensure that the suspended device is removed, and that the spring arm cannot move up above the horizontal position.

Refer to FIG. 31. Unscrew the cover located on the top surface of the extension arm at the end where it attaches to the mounting pivot. Squeeze the cover sides and pull upwards. (Note: a sliding contacts plug is attached to the underside for arms with electrical connections).

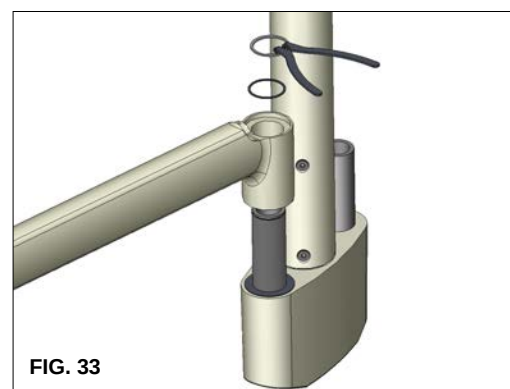
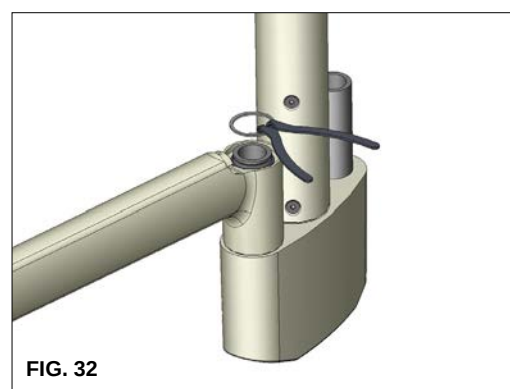


Step 2

Refer to FIG. 32 & 33. Using circlip pliers remove and discard the circlip securing the extension arm to the pivot (a new circlip should be used when reattaching). Remove and retain the 38.9 mm (outside diameter) washer under the circlip.

Step 3

With the spring arm positioned beneath the extension arm, carefully lift the complete arm from the pivot. Ensure that the 47.9 mm (outside diameter) washer remains on the pivot (check that grease hasn't caused the washer to adhere to the arm).



Step 4

Clean the mounting pivot and extension arm journal. Inspect condition.

10. Separating a spring arm from an extension arm

Step 1

WARNING

Before commencing this procedure, ensure that the suspended device is removed and the suspension arm is removed from its mounting pivot. Ensure that the spring arm cannot move up above the horizontal position.

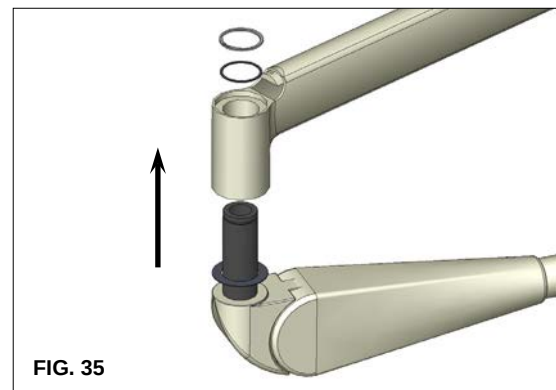
Unscrew the cover located at the end of the extension arm where it attaches to the spring arm. Squeeze the cover sides and pull upwards. (Note: a sliding contacts plug is attached to the underside for arms with electrical connections).

Step 2

Refer to FIG. 34 and FIG. 35. Using circlip pliers remove and discard the circlip securing the spring arm to the extension arm (a new circlip should be used when reattaching the two parts). Remove and retain the 38.9 mm (outside diameter) washer under the circlip. Ensure the 47.9 mm diameter washer remains in place.

Step 3

Separate the spring arm from the extension arm.



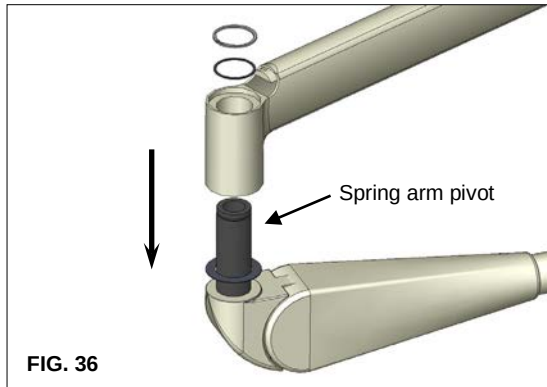
Step 4

Clean the spring arm pivot and extension arm journals. Inspect condition.

11. Reattaching a spring arm to an extension arm

Step 1

Refer to FIG. 36. Apply grease around the spring arm pivot and slide it through the end of the extension arm. Place the 38.9 mm outside diameter washer onto the spring arm pivot.



Step 2

WARNING

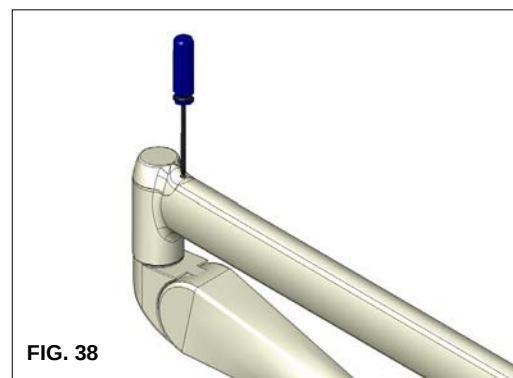
It is important to ensure that the circlip is fully engaged in the groove around the top of the spring arm pivot.

Refer to FIG. 37. Use circlip pliers to fit a new circlip into the pivot groove.



Step 3

Refer to FIG. 38. Reattach the electrical connection (if applicable). Ensure that the plug and cable are undamaged and that the plug is fully seated. Reattach the plastic cover using its screw.



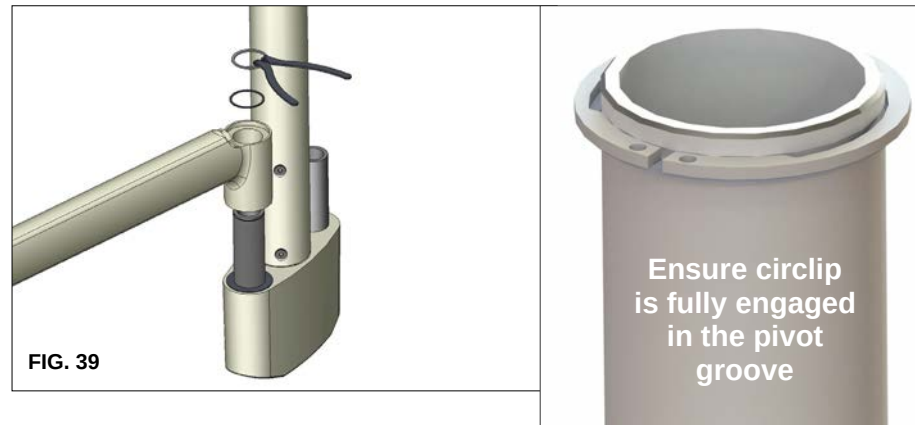
12. Mounting a suspension arm - onto its mounting pivot

Step 1

Thoroughly clean the mounting pivot point of all grease.

Step 2

Refer to FIG. 39. Ensure the retained 47.9 mm (outside diameter) washer is on the pivot. Apply grease to the pivot and slide the complete arm onto it ensuring that it is fully located.



Step 3

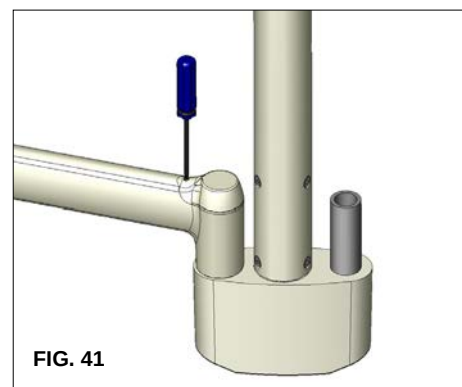
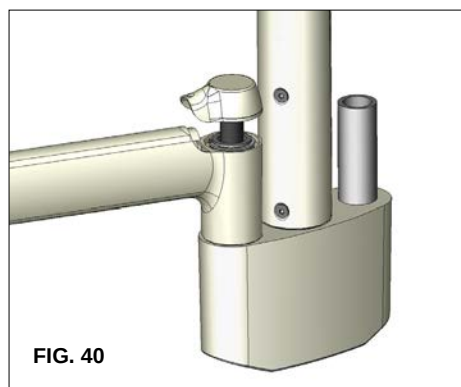
WARNING

It is important to ensure that the circlip is fully engaged in the groove around the top of the mounting pivot.

Refer to FIG. 39. Place the 39.9 mm (outside diameter) washer on the pivot and use circlip pliers to fit a new circlip into its groove.

Step 4

Refer to FIG. 40 & 41. Reattach the electrical connection (if applicable). Ensure that the plug and cable are undamaged and that the plug is fully seated, then replace the cover and its screw.



13. Attaching a suspended device

Step 1

WARNING

Ensure upward movement of the spring arm is restricted to the horizontal. The suspended device should be attached when the arm is in this position, with height adjustments made afterwards. If the spring arm is pulled down below the horizontal before the device is properly attached and the arm is not held, it will rapidly move upwards which could cause injury or damage.

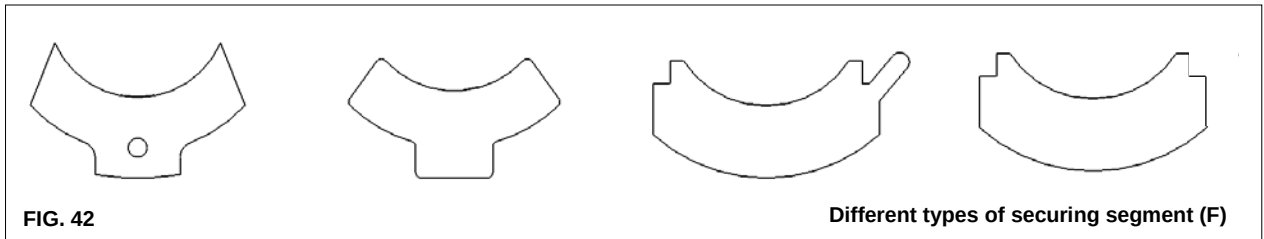
Step 2

For collar type (1) - see page 13. Refer to FIG. 43: slide retaining collar (E) onto the device end of the spring arm with the hole used to secure it lowermost.

For collar type (2) - see page 13: Refer to FIG. 46: slide retaining collar (G) onto the device end of the spring arm with the plastic tag located in the pocket of the collar uppermost.

Step 3

Check the thickness of the retaining segment (F). Ensure a minimum thickness of 1.5 mm. If the segment is below minimum size, replace with a new segment included in the service kit. Ensure it matches exactly the one to be replaced (see FIG 42).



Step 4

Apply grease to the retaining segment (F).

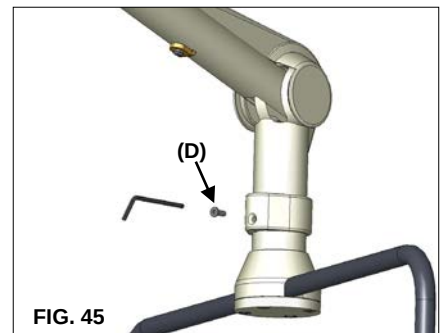
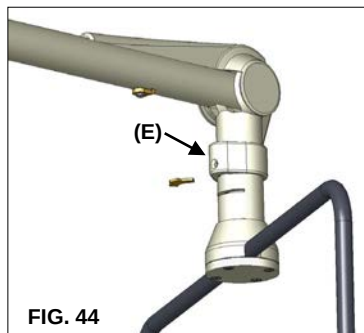
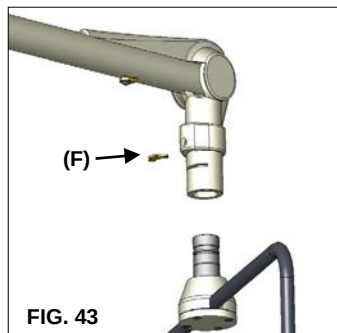
Note: For collar type (1) proceed to step 5, for collar type (2) proceed to step 6.

Step 5

WARNING

When attaching the device to the spring arm, it is important to ensure that the retaining segment (F) is fully engaged through the slot in the spring arm and into the groove in the device pivot. The retaining collar must also be located correctly. Failure to ensure this may result in the device becoming detached from the arm resulting in injury or damage to equipment.

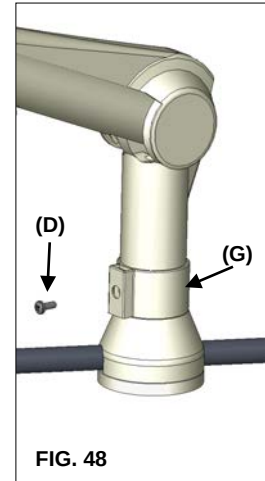
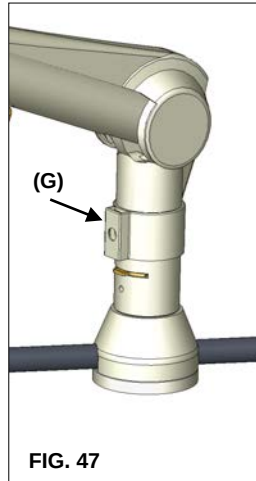
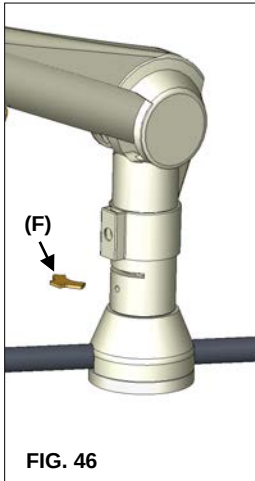
Refer to FIG. 43, 44 & 45. Apply grease to the device pivot and slide it into the spring arm whilst the arm is at the constrained horizontal position. Reattach the device by inserting the segment (F) through the spring arm slot. Ensure that the segment is in the pivot groove and slide the collar (E) fully down. Ensure that the M4 x 12 mm countersunk fixing screw (D) is located beneath the protruding part of the segment (F). Secure collar (E) in place by tightening screw (D) to 0.5 Nm. (Do not over tighten and do not apply Loctite®).



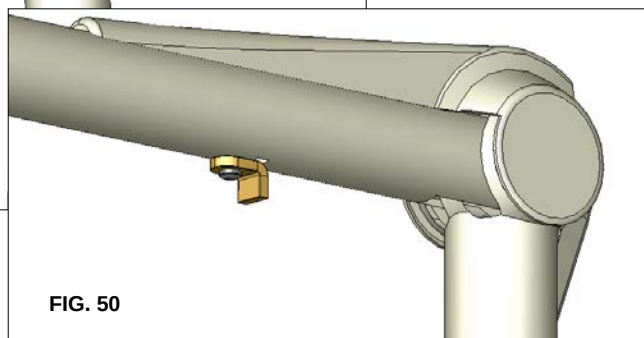
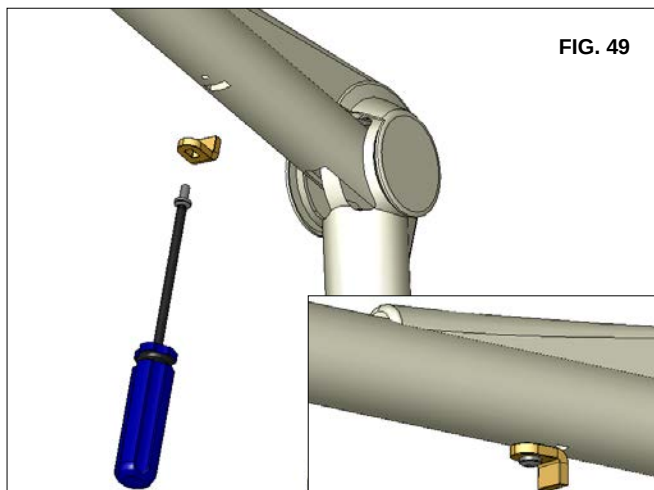
Step 6**WARNING**

When attaching the device to the spring arm, it is important to ensure that the retaining segment (F) is fully engaged through the slot in the spring arm and into the groove in the device pivot. The retaining collar must also be located correctly. Failure to ensure this may result in the device becoming detached from the arm resulting in injury or damage to equipment.

Refer to FIG. 46, 47 & 48. Apply grease to the device pivot and slide it into the spring arm whilst the arm is at the constrained horizontal position. Reattach the device by inserting the segment (F) through the spring arm slot. Ensure that the segment is in the pivot groove and slide the collar (G) fully down. Secure collar (G) in place by tightening the M4 x 10 mm pan head screw with serrated washer (D) to 0.5 Nm. (Do not over tighten and do not apply Loctite®).

**Step 7**

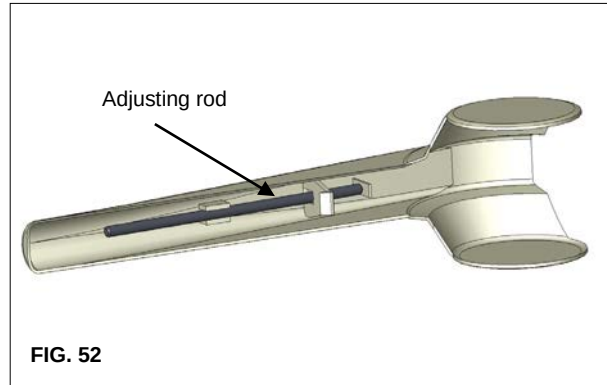
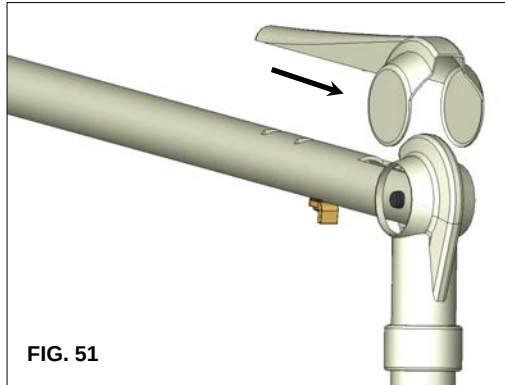
Refer to FIG. 49. To restore the vertical movement of the spring arm, it is necessary to remove the angled securing tag from the lower surface of the spring arm. Remove the screw and pull the arm down to release the angled tag. Once unscrewed, this can be reattached with the tag facing down (away from the slot) so that it can be kept safe for future use (see FIG. 50).



14. Suspension arm adjustments

Note: To adjust the suspension arm, first remove the adjusting rod

Refer to FIG. 51. Gently spread the circular sides of the 24 cm long plastic cover, located at the device end of the spring arm, and slide the cover in the direction of the arrow (as shown). Do not lift the cover up, as there is a risk of breaking a snap hook under the cover. Remove the 4 mm diameter x 11 cm long adjusting rod from its storage clip under the plastic cover (FIG. 52).



14.1 Suspension arm height adjustments

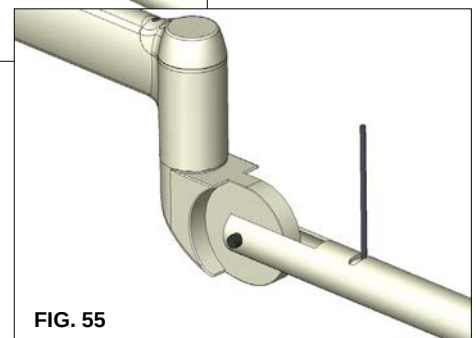
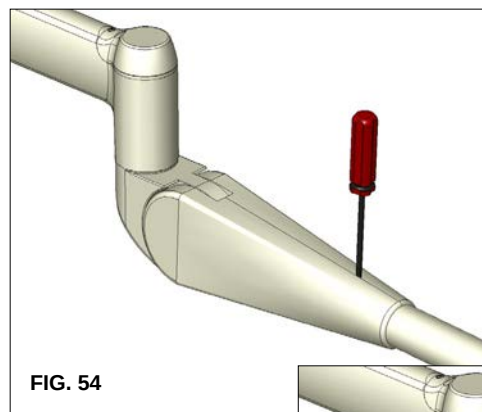
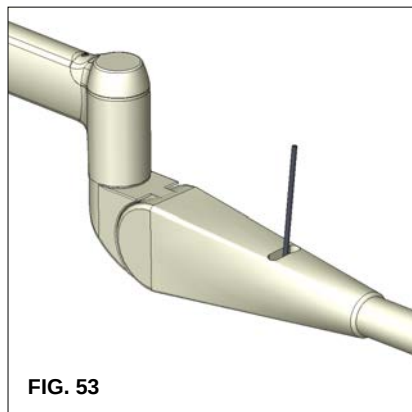
Step 1

Remove the 24 cm long plastic cover and its adjusting rod as described above.

Step 1

Refer to FIG. 53 or 54 & 55 (dependent upon the style of spring arm). FIG. 53. Use the adjusting rod to prise out a 30 mm x 10 mm plastic access cover. FIG. 54 & 55. Remove the two 25 cm long covers using a small flat blade screwdriver.

Move the spring arm to the horizontal position or until a capstan nut is visible in the exposed slot. (Note: grease may obstruct the holes).



Step 2

Refer to FIG. 53 or 55. To restrict upward movement, insert the rod into a drilled hole in the capstan nut and turn anti-clockwise (when viewed from the end of the arm). For a height adjustment of 10 cm, 40-50 turns are necessary.

Step 3

Replace the adjusting rod and reattach the cover (s).

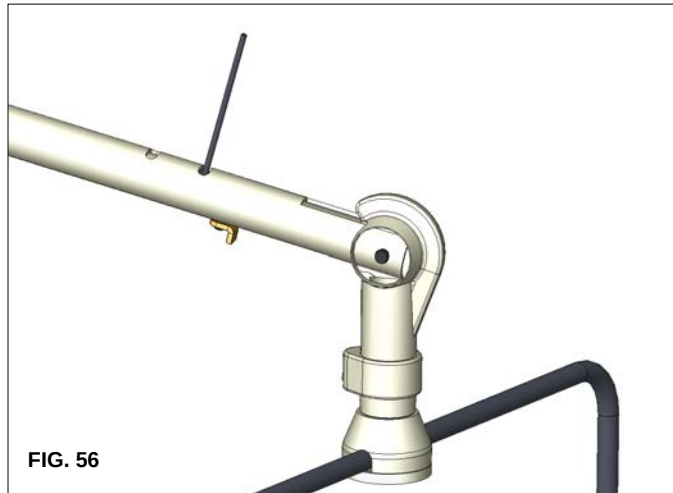
14.2 Spring arm counterbalance adjustment

Step 1

Remove the 24 cm long plastic cover and its adjusting rod as described in section 14.

Step 2

Refer to FIG. 56. The removal of the 24 cm long plastic cover will reveal two slots, one of which is marked at either end with **(+)** and **(-)**. Move the spring arm to the horizontal position, or until an internal capstan nut is visible within one of the slots (possibly covered by grease).



Step 3

Insert the adjusting rod into a drilled hole in the capstan nut. (Note: grease may obstruct the holes). Turn the nut towards the **(+)** sign to increase the spring force or towards **(-)** to reduce the spring force. If the arm moves upwards too easily turn the nut towards **(-)**. If the arm drops too easily turn the nut towards **(+)**.

Step 4

Replace the adjusting rod and cover.

NOTES