



FHX – Repair Instructions

Identify fault:

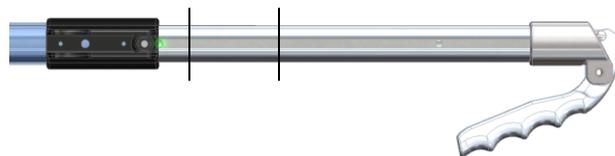
1. Test the operation of the handle. If the grip pivots to the closed position without any resistance, you need to disassemble the handle and inspect components to assess what has failed.
2. If the grip has some resistance, but still moves to the closed position without applying the brake, it is likely that lubricant has been used and is causing the internal brake to slip.
3. In both instances the handle must be disassembled. Use the following procedure:

Disassembly

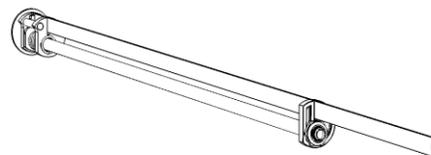
4. Support the FHX025 on a bench, and using a 4mm pin punch drive the FHX037 Spring Pin out.



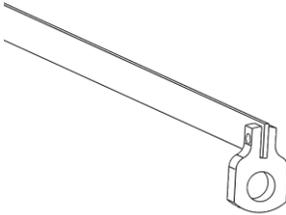
5. Remove the FHX027 Lever, FHX026 Pin, and AT100 Spring.
6. This allows access to the two rivets retaining the FHX025 Sleeve. These need to be drilled out – however you must first align the rivets with an engagement hole so as not to cause damage to the inner tube.
7. To do this, measure 25mm from the centre of the second engagement hole (towards the grip), and mark a line with a pencil.



8. Position the inner tube so that the marked line aligns with the edge of the FHX025 Sleeve. This means that the hole is now aligned with the rivet.
9. Drill out the first rivet with a 3mm drill.
10. Repeat this process for the second rivet using a measurement of 70mm.
11. Remove the AT021 screw from the FHX005 Cam.
12. Separate the inner tube by using a twisting motion on the FHX025 Sleeve, withdrawing it away from the handle head. The whole inner tube assembly will be removed.
13. To disassemble the inner tube, remove the AT052 screw from the rod end, and the AT021 from the grip end.
14. Slide out the FHX020 assembly – you can use the rod to assist.



15. Once removed look for any damage or signs of lubricant. If lubricant has been used, the FHX011R Rod and the FHX029 Brake Washer should be thoroughly cleaned using Brake Kleen or similar.



16. Inspect the FHX029 Brake washer for wear – if necessary it can be fitted in the opposite direction so as to extend life.
17. If the FHX036 Pin has worn through, press out the remaining pieces. Clean all parts.

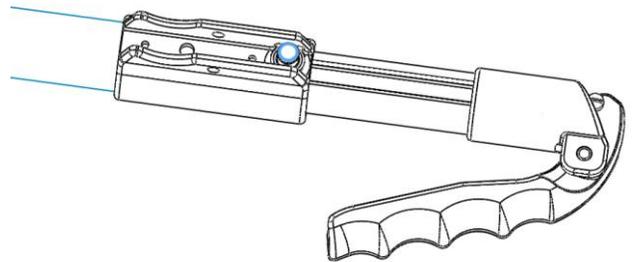
Assembly

18. Press fit FHX036 Pin and FHX029 Brake Washer with FHX011S Strap - check that the pin does not protrude from the washer – dress off if necessary. If the pin is loose – secure with Loctite 243 or similar. Check that the washer is free to rotate.
19. Fit the FHX025 to FHX019 – ensure sliding fit.
20. Assemble brake components and fit to Inner Tube assembly – locate strap in grip slot and fasten to FH009 Grip.



21. Secure FHX020a with AT052 using Loctite 243 or similar.

22. Test operation - check grip and that the rod can slide freely.
23. Fit inner tube assembly to outer tube by sliding on the FHX025 sleeve – align rivet holes.
24. Secure FHX011R Rod to FHX005 Cam with AT021 using Loctite 243 or similar.
25. Test operation with extension at shortest length.
26. Test location / engagement of FHX026 pin in all positions.



27. Rivet FHX025 to outer tube using stand-off tool and 3.2mm x 7.8mm (1/8" x 5/16") rivets, aligning with holes in inner tube. (Can use MB-19 as standoff)
28. Ensure FHX027 Lever fits smoothly inside FHX025.
29. Fit AT100 Spring to FHX027 Lever.
30. Locate lever on pin and assemble to FHX025 Sleeve with FHX037 Spring Pin.
31. Test operation – ensure that brake applies in all positions without slipping.

PROREACH
EXTENDABLE HANDLES