

POWER SPRING REPLACEMENT – QUICK ASSEMBLY GUIDE

FOR THE PROFESSIONAL REPLACEMENT OF THE POWER SPRING IN ASA-HL SERIES HOSE REELS



HOSE REEL – TYPE ASA-HL 40-12-2E with Replacement Power Spring Kit



1. Preparation



The following tools are required:

C-clamp, 10 mm, 17 mm and 22 mm open-end wrenches, 5 mm hex key, and Loctite thread sealant.

2. Secure the assembly



Place the hose reel on a stable surface or secure it to a pallet using wood screws. Alternatively, temporarily secure the hose reel with two C-clamps.



WARNING! Risk of injury! This procedure must only be carried out by trained personnel wearing appropriate personal protective equipment (PPE).

3. Remove the mounting cover



Remove the mounting cover on the right-hand side to gain access to the inside of the hose reel. Use a 10 mm open-end wrench for this purpose.

4. Removing the hose



Pull the hose in the direction of the arrow until the pipe elbow is visible through the mounting opening. Then securely tighten the clamping screw on the left-hand side of the hose reel using a 17 mm open-end wrench. The hose can now be disconnected from the pipe elbow using a suitable open-end wrench and removed.

5. Releasing the power spring tension

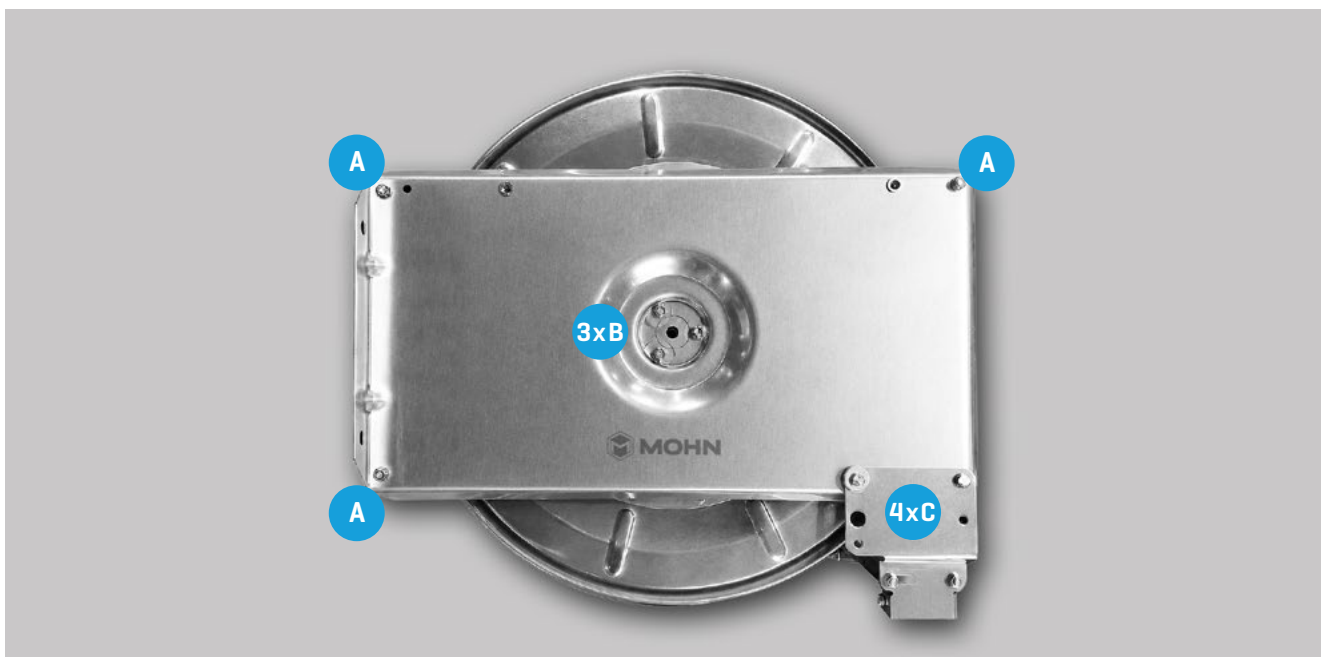


Wearing appropriate personal protective equipment (PPE), carefully release the tension from the power spring. Maintain a firm grip on both the drum and the frame at all times. Loosen the clamping screw on the left-hand side of the hose reel and allow the drum to rotate back in a controlled manner until the power spring is completely released.



Risk of injury! When tensioning the power spring, lock the drum after each revolution before repositioning your grip. Uncontrolled drum release cause injury and damage to the power spring.

6. Overview of the components and screws to be removed



Place the hose reel on its right-hand side and identify the ten screws and nuts to be removed (A: spacer bars / B: bearings / C: hose inlet opening). Use a 10 mm open-end or socket wrench.

7. Removing the screws and nuts



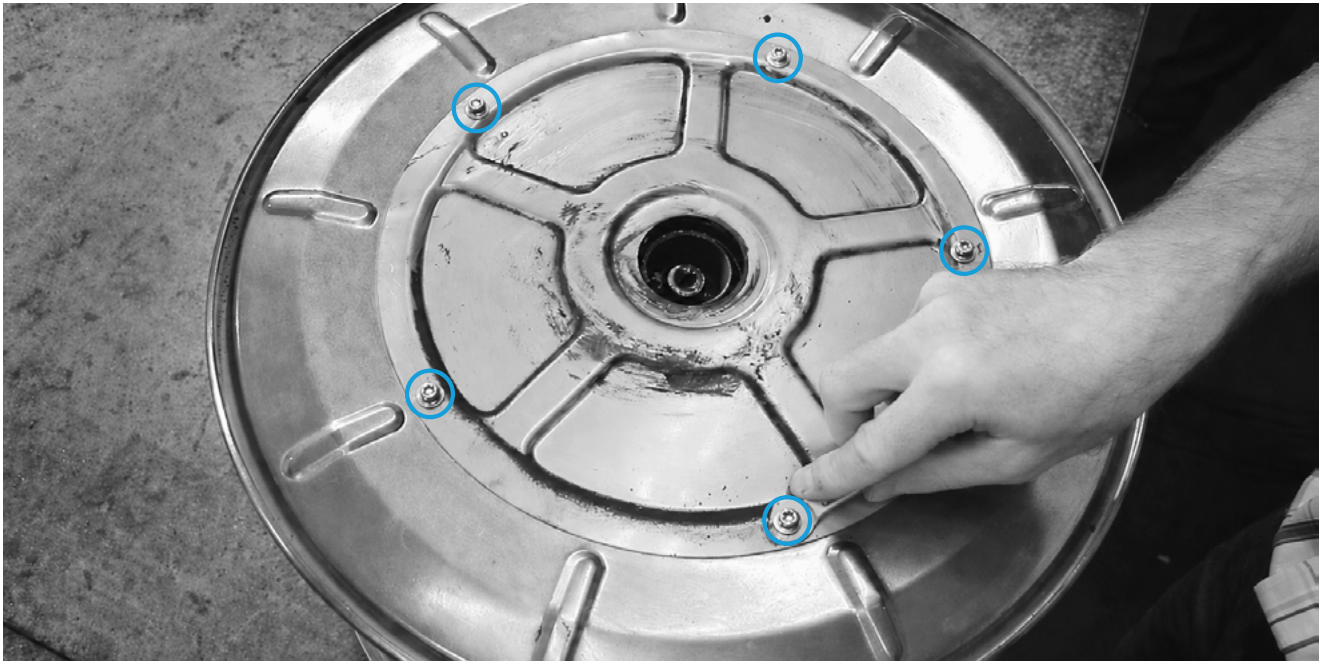
At the hose inlet opening, hold the nut on the opposite side while loosening the screw. The spacer bars and bearings can be removed using a 10 mm open-end wrench.

8. Removing the frame and bearings



After removing the screws, remove the left-hand frame and the power spring bearing. Then lift the drum out of the right-hand frame.

9. Removing the power spring cover



Remove the power spring cover by loosening all five screws using a 10 mm open-end wrench. Carefully lift off the power spring cover evenly to ensure that the power spring remains securely in position.

10. Inspecting the power spring



After removing the screws, carefully remove the left-hand frame and the power spring bearing. Then lift the drum out of the right-hand frame and place it on a stable surface.



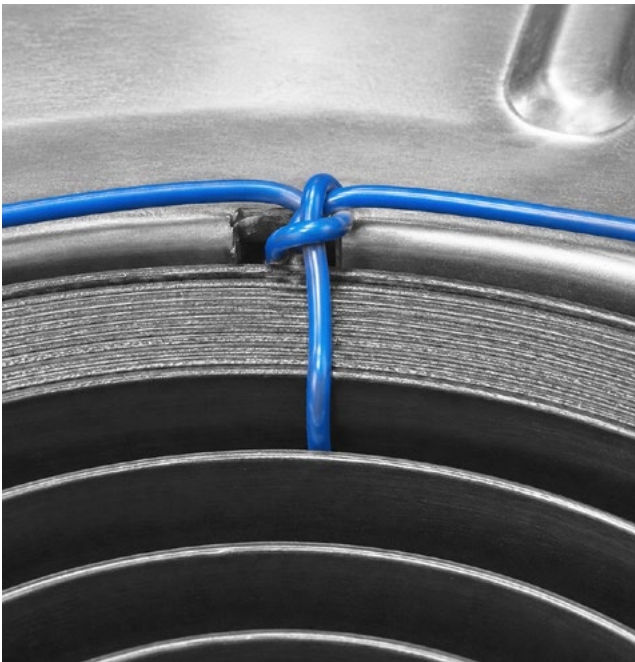
WARNING! Inspect the condition of the power spring. If the power spring is broken or the rivet has sheared off, do not attempt to remove it by hand. There is an increased risk of injury. In this case, skip steps 10 to 16.

11. Lifting the retaining loop



Using pliers or a screwdriver, carefully lift the retaining loop of the power spring until there is a small gap between the power spring and the base.

12. Securing the power spring



Feed a piece of wire underneath the power spring and secure it by twisting the ends together above the spring. Repeat this procedure at least three times to prevent the power spring from springing open unexpectedly.

13. Removing the power spring



The power spring can now be pulled out by the retaining loop using needle-nose pliers and removed safely.

14. Removing multiple power springs*



The following steps describe the removal procedure for hose reel models equipped with two or three power springs. Remove the grease from the drive plate using a cloth. Then loosen the three visible screws securing the drive plate using a 5 mm hex key.

15. Removing the drive plate



Carefully remove the drive plate. Ensure that the power spring remains securely in place.

16. Removing the spring core

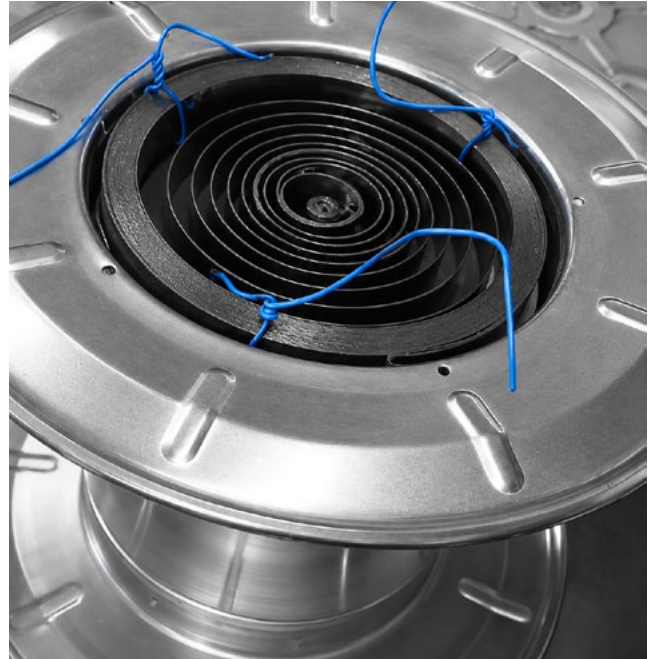
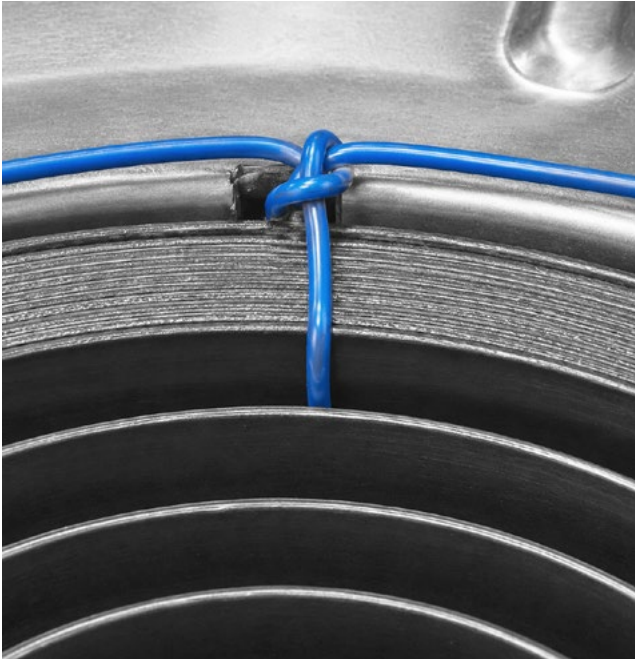


After removing the screws, carefully remove the left-hand frame and the power spring bearing. Then carefully lift the drum out of the right-hand frame and place it on a stable, secure surface.



WARNING! While lifting the power spring, keep the inner spring coils securely in place to prevent them from springing out. There is an increased risk of injury.

17. Securing the power spring



To secure the second power spring, repeat steps 10 to 12. [Secure the power spring with wire].

18. Broken power spring

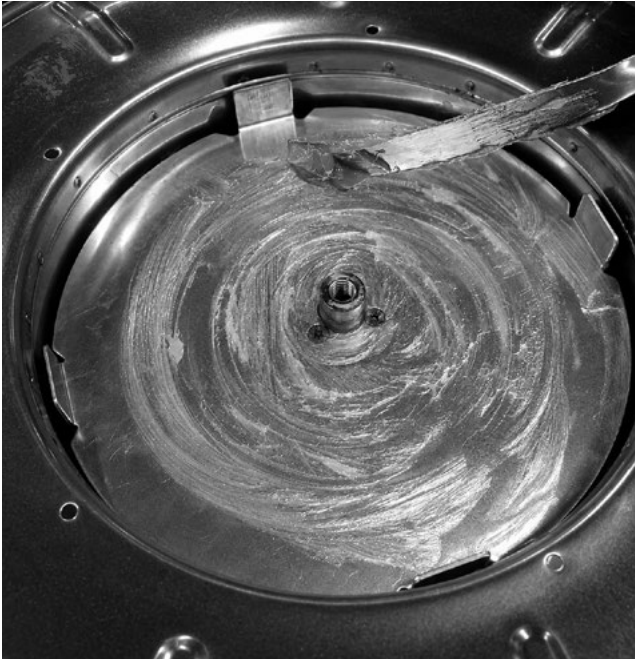


The following step is only required if the power spring is already broken or the rivet has sheared off. Stand behind a protective barrier and carefully tip the broken power spring out of the drum.



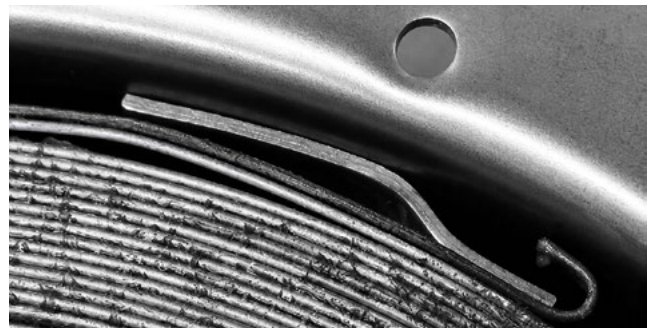
WARNING! The power spring will spring open uncontrollably. Only trained personnel wearing appropriate personal protective equipment (PPE) may perform this procedure.

19. Grease



Before installing the power springs, grease the bottom of the drum and the drive plate.

20. Installing the new power springs



Install the new power spring with the transport retainer still in place. Ensure that the retaining loop is properly seated in the hook. The transport retainer (wire or cable tie) can then be removed.



WARNING! This procedure must only be carried out by trained personnel wearing appropriate personal protective equipment (PPE).

21. Final assembly



Reinstall the removed components [spring core, drive plate, power spring cover and frame] in the reverse order. Ensure that all screws are securely tightened. The drum must then be preloaded so that the hose can be retracted. Please contact us if you require the corresponding instructions.



WARNING! This guide is provided for illustrative purposes only. Please read the supplied operating instructions carefully before commissioning the hose reel.



WARNING! This procedure must only be carried out by trained personnel wearing appropriate personal protective equipment (PPE).

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