

PRM Back Plate Assembly Replacement Procedure

The accumulator assembly #16652 must be replaced once it reaches 12 years in service. The replacement accumulator assembly #25697 comes complete with the replacement accumulator, the unit backplate, and all other upgrades.

Tools Needed

This replacement will necessitate the use of all regular PRM maintenance tools, in addition to a 1/8" hex wrench. For best results, use an extension or a long hex wrench to clear the edge of the enclosure. The original hardware has thread-lock applied, and the longer tool will optimize leverage.

NOTE: It is necessary to fully disarm the system for this replacement. Completely remove, and safely store, the nitrogen cartridge.



1/8" hex

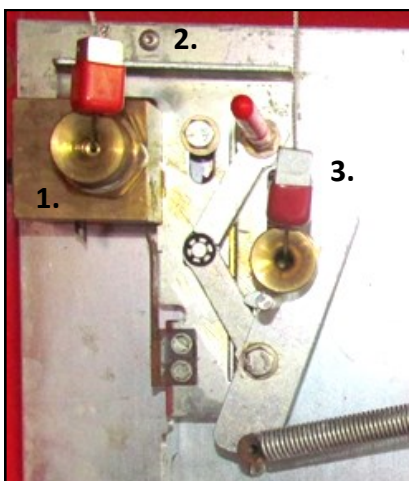


#25697 assembly

The #25697 assembly shown above right has the accumulator mounted to the backplate.

NOTE: The #25697 does not contain the Tubing Replacement Date Label #16555.

It is necessary to order this new label separately.



Replacement Steps

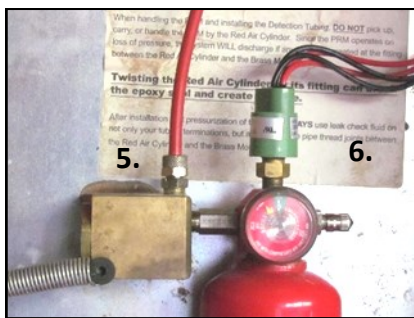
To remove the existing backplate, it is necessary to first disconnect all currently connected peripheral items.

1. Remove the actuation line from the side of the actuation block.
2. If a mechanical gas valve is being controlled from this unit, disconnect the cable connector and remove the gas trip assembly. If the gas trip, cable run, and gas valve are still functional, and in good condition, these parts can be reused with the new assembly.
3. The manual pull network may also be reused if it is in good functional condition.



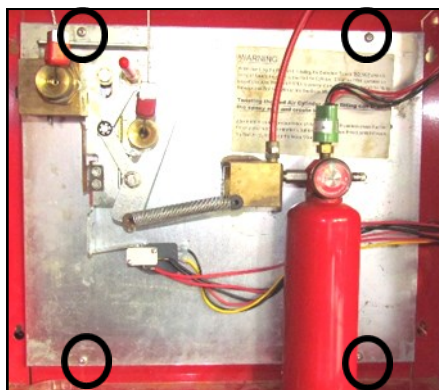
Note: For removal or alteration of any and all electrical components, it is necessary for those components to be de-energized, requiring an appropriately licensed electrician.

4. The new assembly comes with the standard compliment of switches. If desired, these items may be removed from the old unit and reinstalled on the new unit. Or, the new switches may be used following installation. If the existing switches are to be removed, the use of a #1 standard screwdriver is necessary.



5. It will also be necessary to depressurize and remove the detection tube. Generally, a tubing replacement will also correspond with the accumulator replacement.
6. If the pressure switch is connected and in use, then it will need to be disconnected. The new unit has a new pressure switch which can be utilized.

Note: If the pressure switch is connected to an alarm or monitoring system, it is necessary to inform them of this replacement.

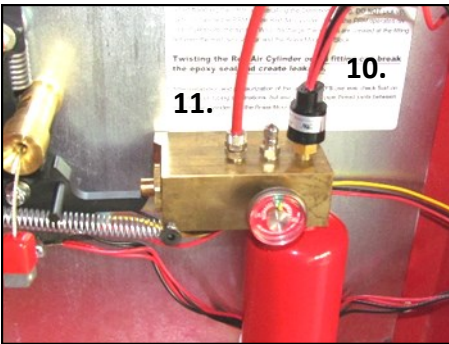


7. With all connected items removed, then remove the 4 $\frac{1}{8}$ " hex screws that hold the backplate to the enclosure. This same hardware will be used to reattach the new backplate.

8. The use of a longer hex wrench is advisable. Removal can be done with the enclosure still mounted to the wall.



9. Remove the old backplate, then insert and align the holes on the replacement backplate. Using the same hardware, reattach and secure the replacement into the enclosure.



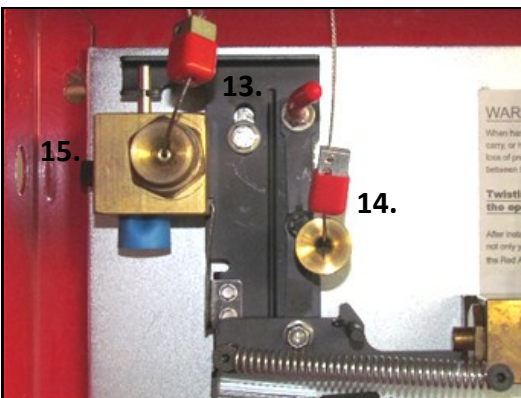
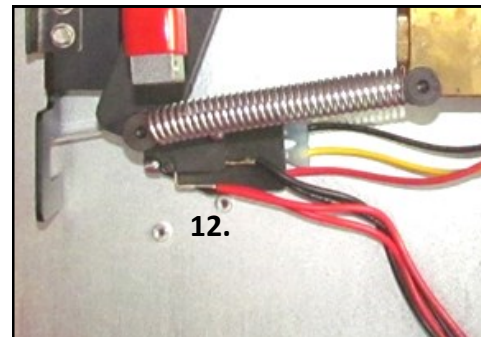
10. If used, the new pressure switch may now be connected.

11. Attach the detection tube following the required process outlined in the PRM guide #16546 page 5.

NOTE: Once the detection tube is connected, pressurize the accumulator to ensure the piston functions, and then inspect for air leaks. It is recommended to pressurize and release multiple times to confirm piston movement.

12. If used, reconnect the included switches.

Note: For removal or alteration of any and all electrical components, it is necessary for those components to be de-energized, requiring an appropriately licensed electrician.



13. If terminating a mechanical gas valve, the gas trip assembly must be installed.

14. Reconnect the manual pull cable.

15. Reconnect the actuation network to the side of the actuator block. Remove and discard the black shipping plug.

16. Set the collapsible column, and perform a function test on all moving components.

NOTE: Once complete, affix the new tubing replacement date label and notate the install date. Put the system back into service, remove the blue shipping cover, install the nitrogen cartridge, and replace the cover.

Reference Materials:

PRM Manual #16546

KP/ZD Manual #20150

IS Manual #15040



Replacement PRM #25697 assembly