



[Front video demonstration](#)

## Optirat GenII SOP - Filter Media Replacement



[Rear video demonstration](#)

The three Optirat GenII filters each have four components: a plastic retainer, outer stainless screen, filter medium, and inner stainless screen. The inner screen is slightly larger, has a finer mesh, and a formed shoulder, while the outer screen has a coarse mesh and is flat. It is critical that the fine mesh screen remains the inner layer of material: Filter damage will result if the screen positions are swapped or if the interior screen is omitted.

**Replace filter papers when the Reemay becomes dirty or worn.**

Animal Care Systems provides a plastic leverage board, trigger clamps, and a modified flat-head screwdriver (Figure 1).

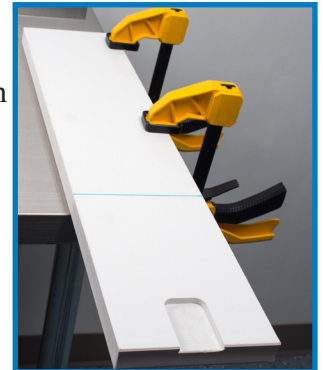
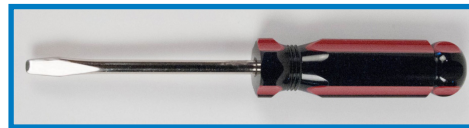
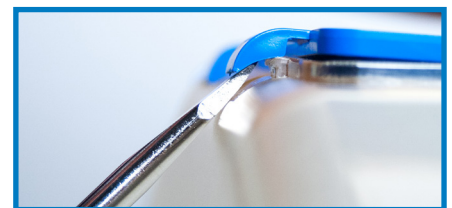
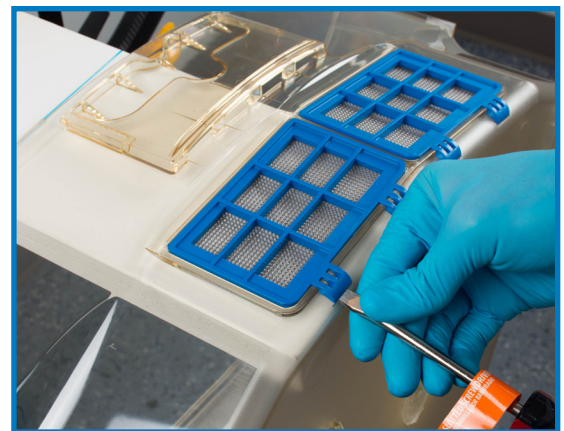


Figure 1

### Front Filter Retainer Removal

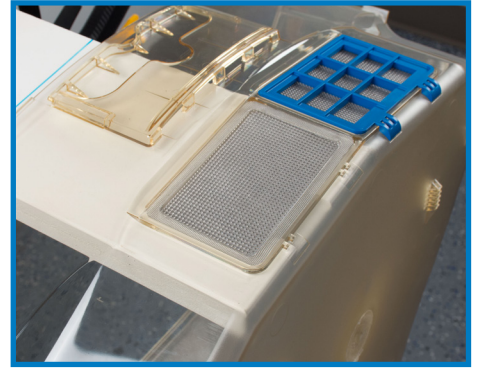
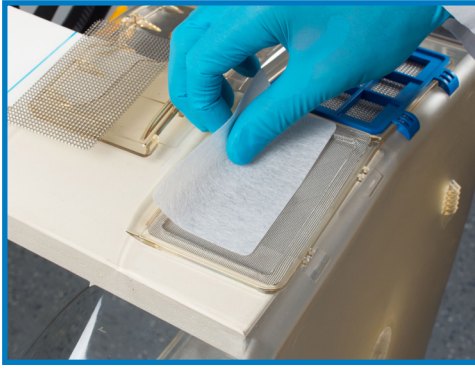
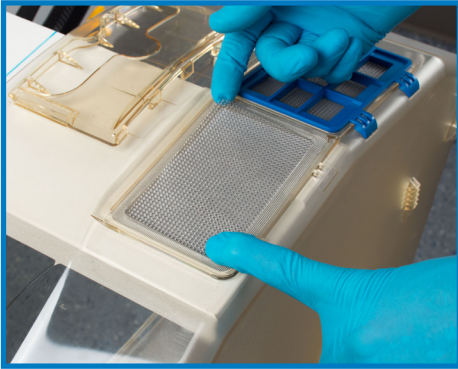
1. After clamping the plastic leverage board to a work surface, set the cage base upon it so that the filters are in line with the board.
2. Place the edge of the screwdriver at the point where the retainer clips onto the cage. This point is nearly at the bottom of the cage base.
3. Press the screwdriver in line with the latch point to lodge it beneath the clip.
4. Angle the screwdriver upward and continue gently pressing until the clip disengages.



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### Front Filter Medium Replacement

1. Remove the coarse screen.
2. Remove the used filter medium, and install a new medium, ensuring it sits within the fine mesh and is free of wrinkles and folds. The fine mesh below the filter does not need to be removed.
3. Re-fit the coarse screen, ensuring the filter medium keeps its position.



### Front Filter Retainer Reinstallation

1. Insert the retainer's top edge into the groove within the top of the filter opening.
2. Swing the retainer down, and then press gently on the retainer body to align it within the grooves (Figure 2).
3. Press downward firmly on each clip. An audible click verifies the clip is secure.
4. Repeat for the second filter.

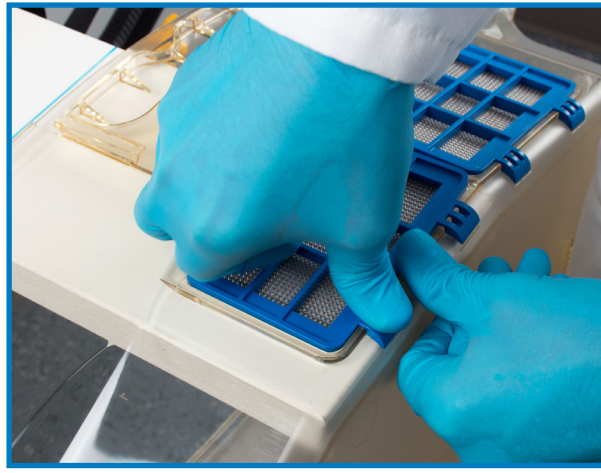
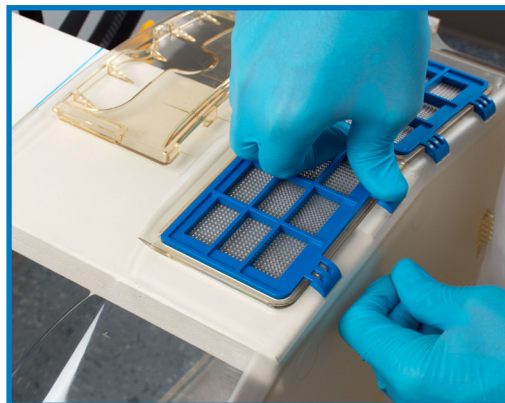


Figure 2





## Optirat GenII SOP - Filter Media Replacement

### Rear Filter Retainer Removal

1. Place the cage base onto the end of the installation board.
2. Insert the screwdriver blade fully into the space between the retainer clip and the cage base (Figure 3).
3. Gently lift the handle until the blade pops off the retainer clip (Figure 4)
4. Repeat Steps 2 and 3 for the other clip, and set the retainer aside.

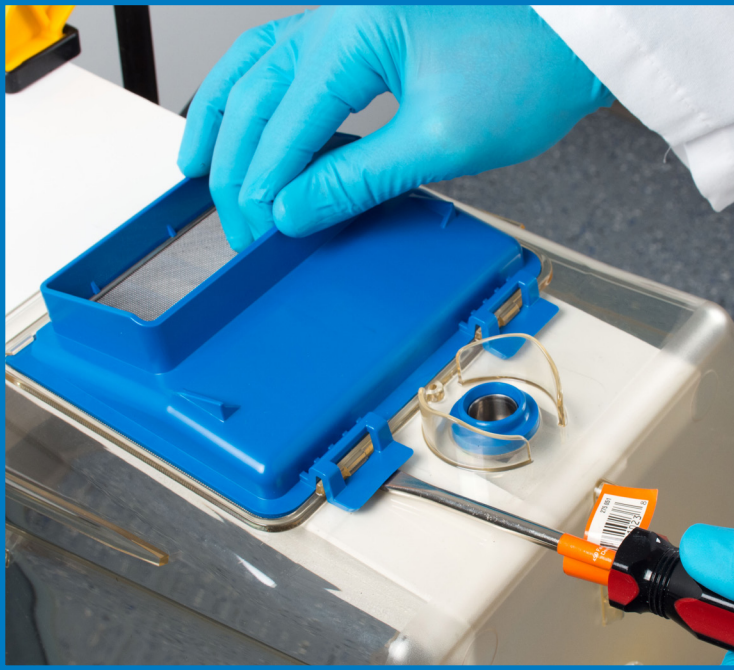


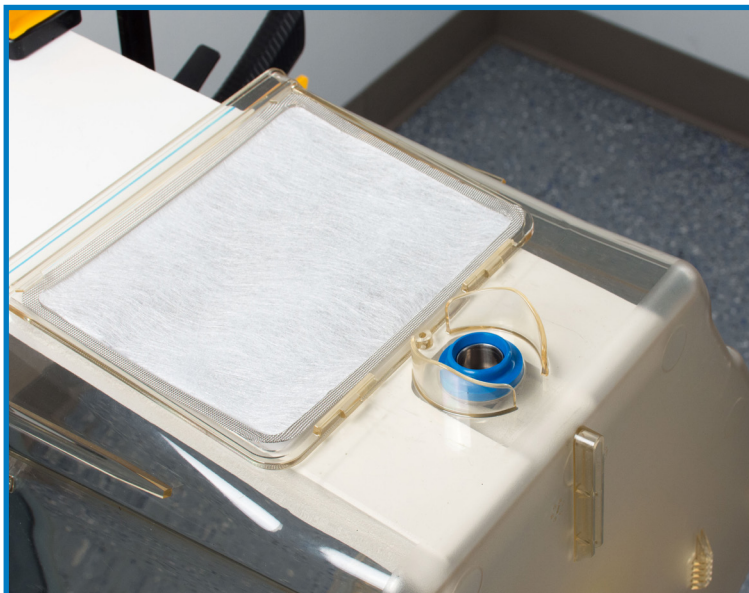
Figure 3



Figure 4

### Rear Filter Medium Replacement

1. Remove the used filter medium.
2. Set the new medium into the recess of the inner mesh so that the top edge of the medium is against the top edge of the recess.





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### Rear Filter Retainer Reinstallation

1. Insert the upper edge of the rear filter retainer beneath the two tabs on the cage base.
2. Swing the retainer down, ensuring the filter medium remains in place.
3. Apply forceful downward pressure above each tab to lock it. An audible click verifies complete installation (Figure 5).



Retainer clip partially seated.



Figure 5: Retainer clip fully seated.