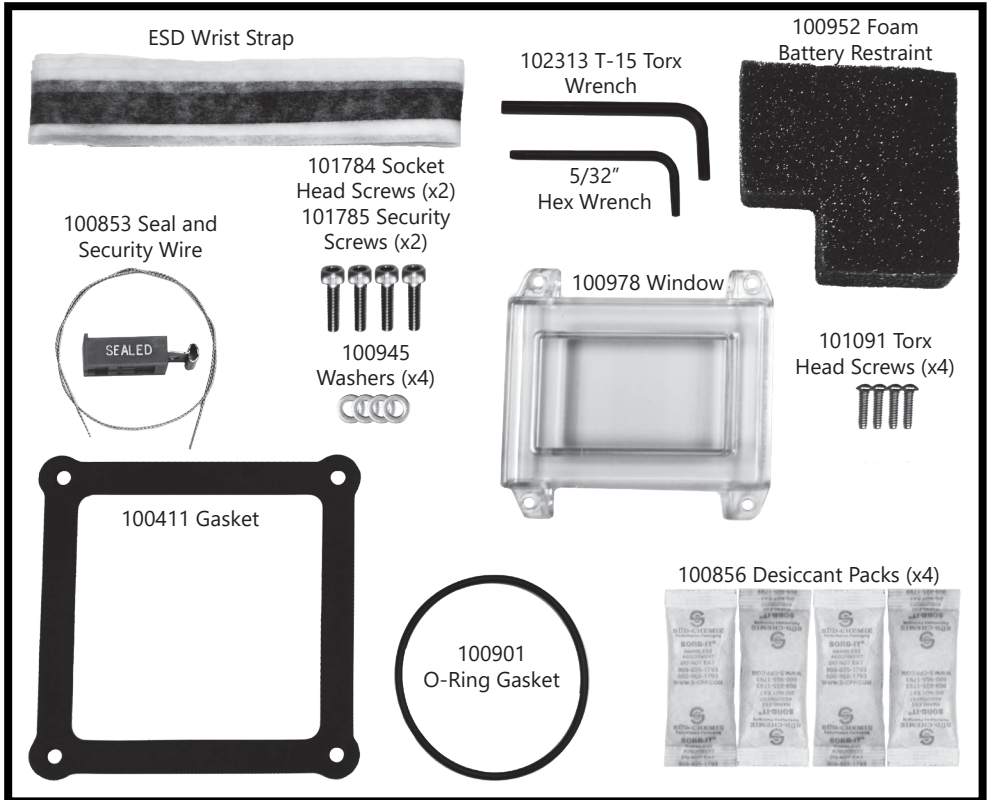




# Window Replacement Kit

For AG2000 & WMX Magmeters



Your window replacement kit (102058) comes with the following (shown above):

5/32" Hex Wrench

ESD Wrist Strap

102313 T-15 Torx Wrench

100411 Seal Gasket

100853 Security Seal and Wire

100856 Desiccant Packs

(Keep Desiccant Packs in bag until ready to install)

100901 O-ring Gasket

100945 Washers (x4)\*

101784 Socket Head Screws (x2)\*

101785 Security Screws (x2)\*

100952 Foam Battery Restraint

100978 Window

101091 Torx Head Screws (x4)\*

\*Screws and washers are provided to replace parts that may be lost during window replacement

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# LCD Window Replacement Procedure for AG2000 & WMX



## **WARNING:**

Before removing the top cover, take precautions to prevent any moisture or wind blown dust from getting into the enclosure while the cover is off.

**MOISTURE IN THE METER WILL CAUSE METER FAILURE.**

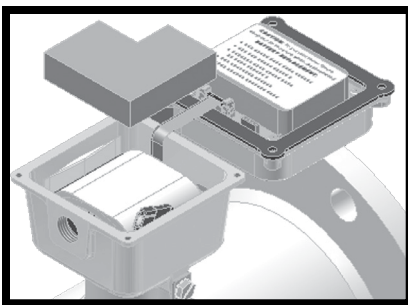
**NOTE:** In order to protect the electronics from electrostatic damage, put on an ESD wrist strap (supplied) and attach it to a ground or the lug for the equalization straps on the side of the meter housing.

## **Remove Damaged Components (9 steps).**

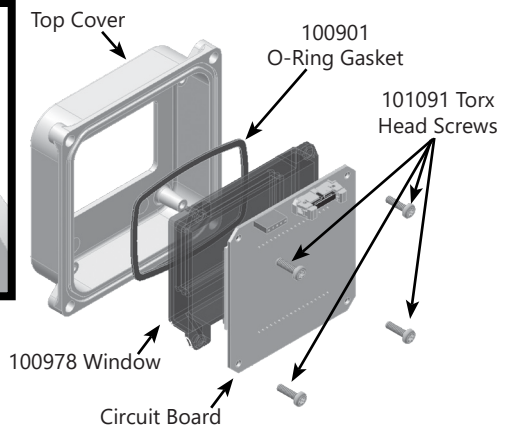
- 1) If used, cut the security wire and remove. Remove the 4 screws from the top cover using a 5/32" hex driver (supplied).
- 2) Gently pry off the top cover assembly using a blunt screwdriver blade at one of the cover corners. Prying at the corner reduces the likelihood of damaging the sealing portion of the gasket. Lift off the top cover, taking care not to stress the ribbon cable connecting the internal assemblies.
- 3) Slip the battery out of its molded tray and gently unplug the battery. Memory will not be lost when the battery is removed. The previous total will appear after the meter has been restarted.
- 4) Do not remove the battery tray as this will alter the calibration of the meter.
- 5) Using a T-15 Torx driver (supplied) remove the four #6 screws holding the circuit board to the top cover. Removing the ribbon cable from the upper board by opening the clips and pulling up on the cable connector may ease the rest of this procedure but is not required.
- 6) Remove the 100411 Gasket from the top cover and remove any adhesive that may have transferred to the cover.
- 7) Remove the circuit board from the top cover and place it in a protected, grounded area.
- 8) Remove the damaged 100978 Window and 100901 O-ring gasket from the inside of the top cover.
- 9) Clean the sealing areas for the 100901 O-ring Gasket and the 100411 Gasket on the top cover. Any contamination can cause seal failure and allow moisture to enter the meter. **MOISTURE IN THE METER WILL CAUSE METER FAILURE.**

## Reassemble the Meter (11 steps).

- 1) Place the new 100901 O-ring Gasket around the protrusion on the front of the new 100978 Window then place the window and o-ring into the top cover.
- 2) Place the circuit board on the window and replace the four 101091 Torx Head Screws and tighten to **15 inch/pounds**. For ease of installation, the screw for the inter-board ground wire can be replaced after the gasket.
- 3) Remove the liner from the gasket and carefully align the holes in the gasket with the holes in the top cover, then press into place.
- 4) Be sure that all four Torx head screws are tight and that the ground wire is connected to the screw nearest the programming port. Be certain that the ground wire will not interfere with the gasket seal.
- 5) Reinstall the ribbon cable if it was removed.
- 6) Plug in the battery and replace the old desiccant packs with the new packs provided.
- 7) If your meter has a loose or damaged foam battery restraint of the type provided, replace it now. Take care to place the notch in the same corner as the ribbon cable. Not all meters will have this additional battery restraint. **Only install the supplied foam battery restraint if your meter was originally supplied with one.**



Top Cover open. Optional foam battery restraint shown.



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8) Replace the top cover so that the bottom of the display is oriented towards the wiring access plug and that nothing is in the gasket sealing area.

**REMEMBER THAT CONTAMINATION IN THE GASKET SEAL WILL CAUSE SEAL FAILURE WHICH WILL RESULT IN METER FAILURE.**

9) Loosely install the four 100946 socket head screws with washers. If your meter had a security seal, be sure the 2 screws with the cross drilled holes are nearest the access plug.  
Cross drilled security screws are not supplied and must be ordered separately.

10) Sequentially tighten the screws in an X pattern. The final torque should be 15 inch/pounds. If your meter has security screws align the cross drilled holes so they will accept the security wire.

11) Finally, if your meter had a security seal, install the replacement seal and record the number.

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