

IMPORTANCE OF TORQUE RECOMMENDATIONS FOR REASSEMBLY

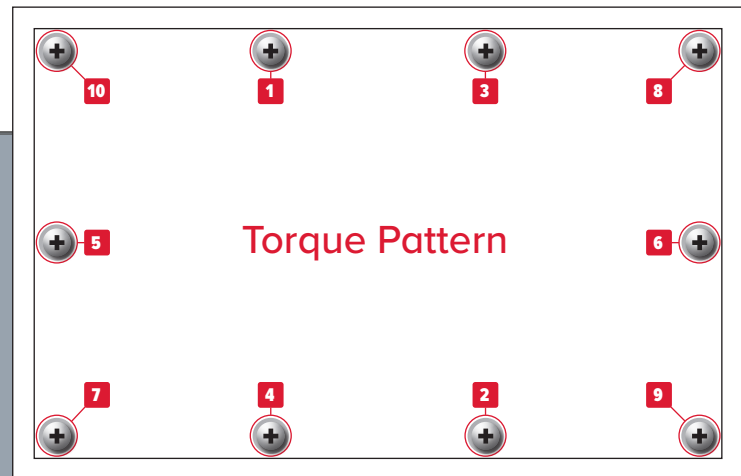
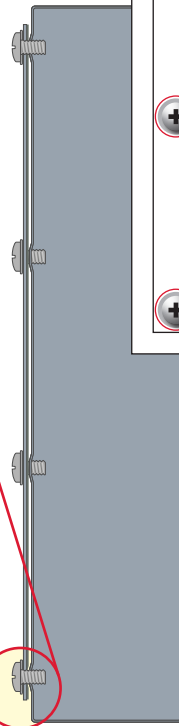
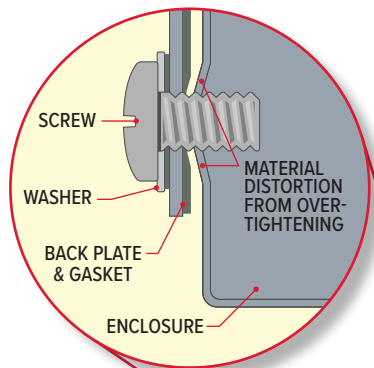
Enclosures Can Lose Seal Effectiveness if Over-tightened or Under-tightened



When servicing a weight indicator, technicians must pay special attention to the tightening sequence and torque values specified in the technical manual. Especially important for washdown-rated indicator enclosures such as the CW-90 and CW-90X patterns and torque values impact the effectiveness of gasket seals in protecting interior electronics from harm. Many technicians instinctively believe tighter is better; however, over-tightening an enclosure's backplate can bend the material, creating a convex condition which allows water and/or other materials to permeate the seal.

It is imperative to use a high-quality, reliable torque driver when tightening enclosure screws. There is no other way to ensure proper torque values are reached yet not exceeded.

In this article, we will use the CW-90X's reassembly instructions as an example. Please refer to your indicator model's technical manual for instructions, as it may differ from these specifications.



ENCLOSURE REASSEMBLY

Ensure all cables are in place, then align the backplate with gasket to the enclosure and secure with screws. Use the torque pattern shown above to prevent distortion. Using a torque wrench, tighten to 15 in-lb (1.7 N-m).

Torqued screws may loosen slightly as the gasket is compressed. Therefore, after completing the sequence, check all enclosure backplate screws to ensure they are at 15 in-lb (1.7 N-m).