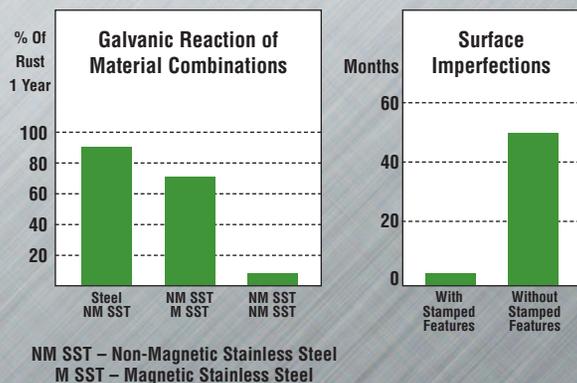


## Independent Study Results



## Corrosion Protection

The demands on window hardware in coastal environments are extreme and unrelenting. For years Truth Hardware has utilized many methods to combat corrosion and red rust in salt spray environments. Independent test results have shown that previous measures taken by those in our industry have not been the answer.

Recently Truth Hardware introduced the Encore® Hardware system for casement and awning windows. The acceptance of this product line has been outstanding—with many of the window manufacturers already realizing the quality and benefits associated with this new system. Truth realized that this product is the future of the operable window industry—and therefore focused our efforts on developing an offering, within this product line, that we feel is the most effective system available in the battle against corrosive elements.

*Currently listed on AAMA Verified Components List to meet AAMA 901 Cycle Life Requirements*

## Recommended Maintenance

To provide the optimum service life, it is strongly suggested that the operating hardware be flushed with fresh water and re-lubricated annually. It is also important that the fasteners used be of an approved style and material, to reduce failures associated with incompatibility of products. Clean water should be used when possible to flush the hardware clean. A mild (hand wash) dish soap and water mixture can be used to loosen stubborn dirt and remove excess salt deposits. **Always rinse the hardware with clean water.** Allow the hardware to dry completely before lubricating.

**Cleaners to avoid:** Vinegar or Citrus based cleaners and industrial strength and/or abrasive cleaners. **Warning:** Glass cleaners and brick/siding washes, with the ingredients listed earlier, must not come in contact with the hardware.

**Lubrication:** After the hardware is clean and dried it must be lubricated to restore smooth operation, and in some cases corrosion resistance. Because of its "waterproofness" properties, lithium grease is recommended for all gear drives such as operators and locks. Commercially available spray lubricants can be used on all sliding or rotating joints such as hinges and rollers.

## Warranty Information

Truth Hardware states that the Encore Operator System will provide resistance to loss of functionality for a period of up to 10 years from date of purchase. This warranty is expressly limited to window manufacturers who purchase Truth Hardware products and cannot be assigned or transferred. This warranty does not cover normal wear or discoloration on finishes, or any product that has been improperly installed, abused, misused, worn out, altered, or used for a purpose other than that for which it was intended, or in a manner inconsistent with any instructions regarding its use, or recommended maintenance. If any product manufactured by Truth is found to be defective by Truth, in its sole judgement, Truth will, at its option, either repair or replace defective product. Truth shall not, in any event, be liable to the window manufacturer or their customers for consequential or incidental or punitive damages.



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**1-800-866-7884**  
Fax: 507-451-5655

STAINLESS STEEL  
**Encore®**  
OPERATOR SYSTEM

The Industry's Best Answer For  
Superior Corrosion Protection.





# Corrosion Protection With Style—

Available For Vinyl And Wood Windows

## Choose Stainless Steel Encore® For Superior Protection:

**Similar Materials** - When two dissimilar materials are used in contact with one another, a galvanic reaction occurs. The inset photo shows the reaction when magnetic stainless steel screws are used to mount non-magnetic stainless steel hardware.



**Independent testing** showed that rust has quickly spread over 10% of the surface and was bleeding from some of the screw holes when dissimilar materials were used.

**Hard Coating** - A special coating is used on components with gear teeth to increase cycle life and load capacity on “non-hardenable” stainless.



STAINLESS STEEL  
**Encore®**  
OPERATOR SYSTEM

Available on all standard Encore System Products.

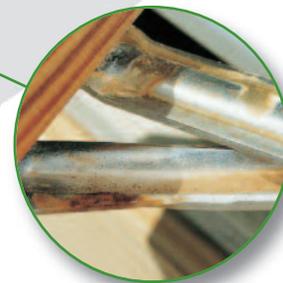
**Powder Coating** - Truth Hardware’s powder coating provides the highest corrosion resistance for interior surfaces.

**Logos and Stampings** - Any areas where moisture has a chance of accumulating will accelerate the rusting process. Truth has greatly reduced the amount of surface imperfections on the Encore by eliminating these markings.



**Sharp edges** such as logo stamps had red rust bleeding from them after just three months of testing.

**Red Rust Haze Minimized** - All stainless components are passivated to minimize surface rust and improve galvanic corrosion resistance to joints.



**After just one year** the red rust had spread from rivet joints on the surface of the arms and was bleeding and staining the surface of the PVC.