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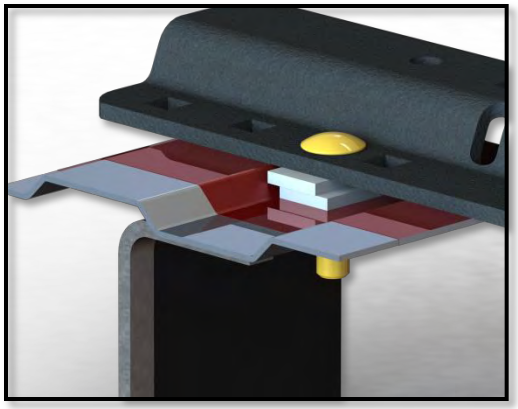
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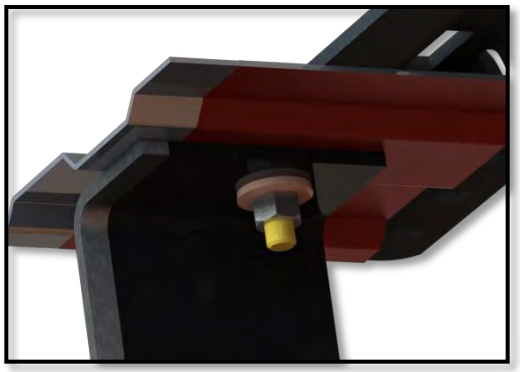
Attachment of Products Through Aluminum Body Panels

Heavy Duty Towing

2015 and Newer F150 Mounting Kits

Ref. Ford SVE Bulletin Q-222





Background: Whenever bare dissimilar metals come in contact and moisture is present, a low electrical current is created. This contact will accelerate the oxidation (corrosion) process. This is called galvanic corrosion.

Protecting Against Galvanic Corrosion in the Case of Ford F-150.

A. When attaching a product(s) made of dissimilar metals, you must take extra precautions to ensure bare metal is protected.
    1. Any time holes are drilled or paint is scratched, it is recommended that the paint be repaired with suitable product(s) before attaching other items.
        a. Anti-corrosion base coatings for bare aluminum metal include:
            i. Motorcraft PM13-A, NOX-rust 7703-W, Zinc Rich Primer.
        b. Acrylic lacquer touch-up top coat paints include:
            i. Motorcraft, Duplicolor, Rustoleum
    2. Do not allow fastener to contact bare aluminum body panels or have an interference fit (I.E. sheet metal screws).
    3. When bolting or clamping onto the painted body panel, additional isolation can be used.
        a. Isolation material made from polypropylene or urethane is recommended.
            i. Some heavy duty packing or weather striping tapes can work.
            ii. Do not use foam tapes; moisture is the enemy.

B. Fasteners.
    1. Recommended fasteners include:
        a. Zinc coated steel – structural attachment.
        b. Aluminum: clamps, pop rivet, and rivnuts – non-structural attachment.
        c. Plastic fasteners – non-structural attachment.
    2. Fasteners and sealants *to avoid* include:
        a. The use of bare aluminum washers in a bolted joint because the bare aluminum washer is a sacrificial part, that when corroded, will allow the bolted joint to become loose.
        b. Self tapping steel screws.
        c. Steel: Rivnuts, pop rivet, spring clips.
        d. Stainless steel.
        e. RTV silicone