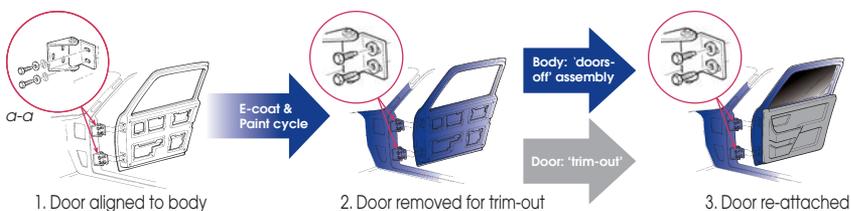


accelerate your doors-off assembly process

EPOXY WASHER SYSTEM

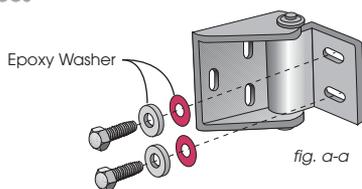
Argent's *Epoxy Washer System* uses a thermosetting epoxy film to permanently adhere metal washers to automotive hinge assemblies. Our thermosetting washers provide a number of process benefits; they simplify assembly, eliminate potential quality issues from welding operations, and don't require any special skills to install.

Primarily used for 'doors-off' assembly processes, Argent's *Epoxy Washer System* maintains door to frame alignment for trouble-free door re-attachment later in the assembly process. Our *Epoxy Washers* are supplied conveniently on re-useable trays. **Argent's Epoxy Washer System is currently and/or has been, in production at Daimler-Chrysler, General Motors, Ford, Mazda and other OEMs. U.S. Patent/s: 6,669,428 & 7,143,895.**

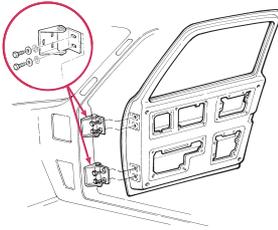


Primary Applications

- fasten washers or locating-plates to: doors, hinges, or frames - without welding
- conveniently reinstall doors after 'off-line trim' and other 'doors-off' operations
- Install washers to dirty or oily metal surfaces
- e-coat compatibility
- full cure in paint-cycle ovens
- high torque strength



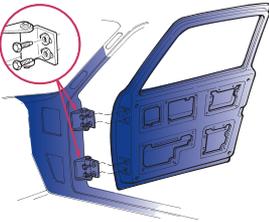
How it works



1. Door aligned to body

Operator loads door to tooling fixture. Door swings down to body and aligns with door-hinges (pre-attached to body). Operator installs temporary bolts and *Epoxy Washers*; after cure, *Washers* will adhere to door-hinges, preserving bolt location in slotted holes and overall door alignment.

Door is left on body. Vehicle is sent through E-coat and paint cycles. 'Washer' adhesive system cures.

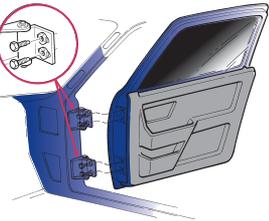


2. Door removed for 'trim-out'

Operator removes door and recycles temporary bolts. With the door removed, vehicle and door assembly can continue concurrently without impediment from each other.

Door assembly continues off-line with trim.

Vehicle assembly continues with 'doors-off.'



3. Door re-attached

During final assembly, operator re-attaches door and installs bolts through pre-located holes created by *Epoxy Washers*; no realignment is needed.

Mfg. processes outlined are for illustrative purposes; our versatile system allows for many possible uses.

For More Information

Contact us, or visit our website for product samples, technical data, and other information about our Epoxy Washer System.

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