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Classic Connectors, Inc.

ClampStar®
Recommended Corona Shield Installation Procedure

In most 230 kV and above applications, corona shields are required to shield the clamping bolt ends and ensure corona-free operation.

Corona shields are designated CSC-XXXX-YYY where XXXX indicates the specific ClampStar® unit part number on which the shield is to be installed and YYY defines the system voltage. Corona shield kits (2) may be ordered separately or in a combination assembly for maximum stocking flexibility. Corona Shields may be retrofit to existing ClampStar® units already in service. One shield is normally required per clamping unit (two per ClampStar® assembly).

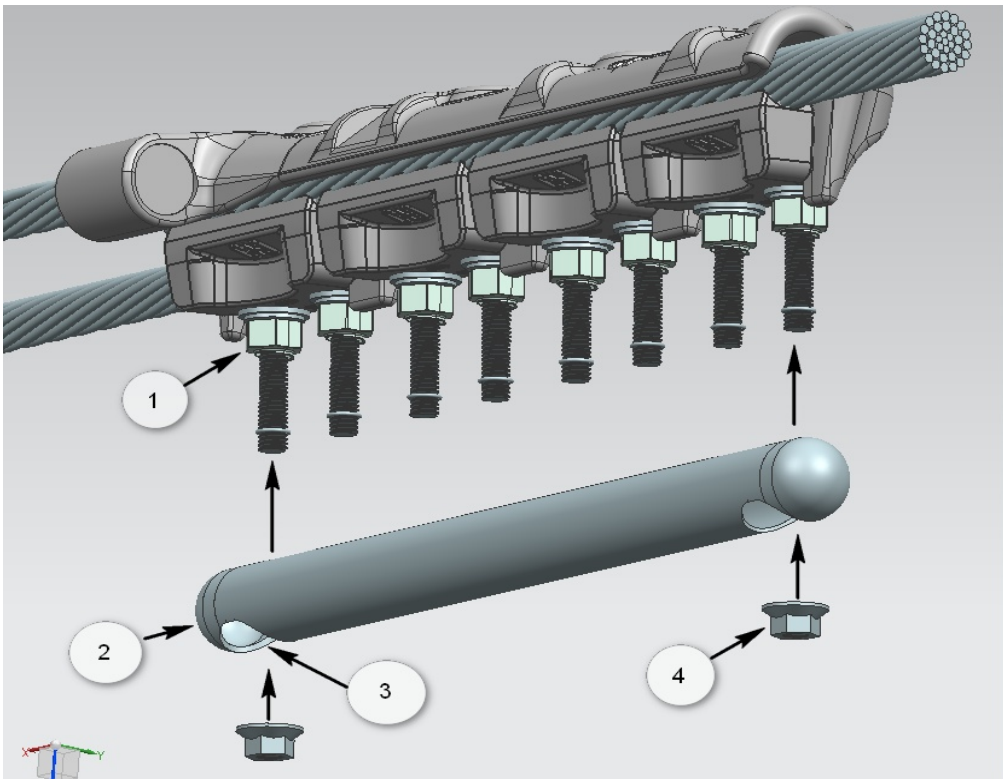

Illustration 1: Corona Shield Installation

Corona shields (2) are attached after installation of the ClampStar® unit and final tightening and shear of the keeper nuts. (See ClampStar® Recommended Installation Procedure Document) Illustration 1 shows one end of the ClampStar® unit with the keeper torque-limiting nuts sheared off in the installed position.

After final tightening and shear of the keeper nuts (1), grasp the corona shield with the appropriate tool (Photo 1) which will not damage the shield and install the corona shield by guiding the holes in the shield over the keeper bolts. While holding the shield in position against the permanent keeper nuts or against the keeper bolt ends; whichever limits. The shield is attached to the outer keeper bolts through access holes (3) in the opposite side with ½”-13 flanged whiz-lock locking nuts (supplied). Using the same ¾” deep well socket as for the torque-limiting nuts, install the locking nuts and tighten sufficiently to ensure the flange teeth bite into the inner wall of the aluminum shield leaving the shield tight, but not deformed (Photo 2).

Exercise care to avoid denting or otherwise damaging the lightweight corona shields and keep them clean and free of dirt, mud, grease and other surface contaminants.

Photo 1: Example of one universal stick tool available to grasp the corona shield

Photo 2: Showing corona shield in installed position

Inspect the shield for tightness on the ClampStar® unit. The shield must be tight to ensure that it will be at the same electrical potential as the clamping unit.

NOTE: These instructions do not claim to cover all details or variations in equipment or installation, nor to provide for all possible conditions concerning installation, operation or maintenance of this equipment. If further information is desired or if particular problems are encountered which are not sufficiently covered in this guide, contact Classic Connectors, Inc. at the above address or telephone numbers.

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