**IMPORTANT: Compliance with Safety Standards**

It is the responsibility of the fuel system installer to ensure that the completed vehicle installation is compliant with the current revision of the National Fire Protection Agency Code 52, *Vehicular Gaseous Fuel Systems Code*.

All installations of the 3M™ CNG Fuel Tank into the brackets must be completed as described in the 3M™ CNG Fuel Tank Instructions for Installation, Inspection, and Maintenance manual.
The Fastener Packets described in more detail below, should be installed in the locations indicated in Figure 1.

**Fastener Packet 1 Contains:**

Four 11/16” OD Metal Sleeves, 2.55” long
Four ½” – 13 Grade 8 hex head bolts, 4” long
Four ½” – 13 Nylon Insert Locking Nuts
Eight ½” SAE Grade 8 Washers

The fasteners included in Fastener Packet 1 are used to attach the metal mounting strap to the base plate. The metal bracket strap tabs slip over the two vertical mounts coming up from the metal base plate. The metal sleeves included in Fastener Packet 1 are installed in between the two vertical mounts as shown in Figure 2. A washer from Fastener Packet 1 is used on each, the bolt side and the nut side, of the bracket strap attachment points.
Figure 2. Illustration of locations on one end of the base plate to install the items included in Fastener Packet 1 to attach the metal bracket strap to the base plate of the bracket.

Fastener Packet 2 Contains:

- Eight ½” – 13 Grade 8 hex head bolts, 2” long
- Eight ½” – 13 Nylon Insert Locking Nuts
- Sixteen ½” SAE Grade 8 Washers

The fasteners included in Fastener Packet 2 are used to attach the base plate of the bracket to the vehicle. During the installation of the bracket to the vehicle, the four backer plates included in the bracket kit should also be used (or alternative stress distribution system as described in the 3M™ CNG Fuel Tank Instructions for Installation, Inspection, and Maintenance).
Fastener Packet 3 Contains:

Two black anodized 1-1/8” diameter aluminum toggles (bolt side)
Two grey anodized 1-1/8” diameter aluminum toggles (nut side)
Two ½” – 13 Grade 8 hex head bolts, 4” long full thread
Two ½” – 13 Nylon Insert Locking Nuts
Two ½” SAE Grade 8 Washers

The fasteners in Fastener Packet 3 are used to close the metal bracket strap around the CNG fuel tank. It is extremely important that the bracket strap closure fasteners are installed and torqued using the procedures and the specified torque described in the 3M™ CNG Fuel Tank Instructions for Installation, Inspection, and Maintenance manual. Adherence to the procedures described in the 3M CNG Fuel Tank Instructions is essential to safely accommodate the expansion and contraction of the tank as it is fueled and de-fueled.

The exact placement of the black and silver toggles, as well as the bolt and nut positions on the bracket closure are described in much greater detail in the 3M™ CNG Fuel Tank Instructions for Installation, Inspection, and Maintenance manual.

Other Parts Included in Bracket Kit:
Two bracket base plates for mounting the bracket to the vehicle
Two metal bracket straps for securing the fuel tank to the bracket
Two rubber strips which must be installed on the inside of the metal bracket straps such that they are securely fastened to the metal bracket straps and are positioned between the metal bracket strap and the fuel tank, as shown in Figure 1.

Four stress distribution backer plates used when the bracket base plate is attached to the vehicle.