



CNG Field Service Bulletin
Skid Plate Option for 257 Series
Side Mount Systems
Left Side: 25799011
Right Side: 25799010

ENP-665
July 13, 2018

1. Introduction

Refuse fleet and other vehicles operating in severe duty applications may benefit from additional shielding or protection for the CNG cylinder inside the system cabinet.

There are two kits available (one for the left side and one for the right side) for 257 series side mount systems, consisting of a 1/8-in. thick steel bottom cover, a 3/8-in. thick steel outside front corner guard and a 1/4-in. thick internal gusset. See Figures 1 and 2.

The plates are mounted on the plug end of the cabinet (toward the front of the vehicle) and are designed for “remove and replace” installation on existing systems.

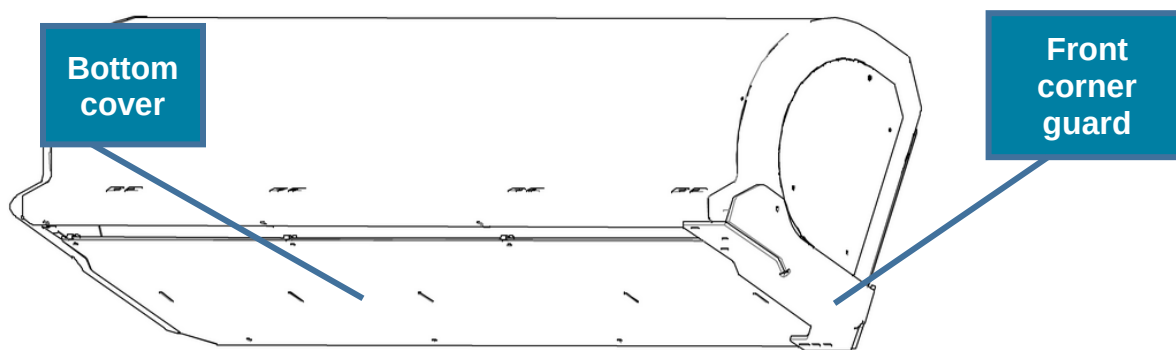


Figure 1. New shield parts replace the existing bottom cover. A new corner guard is bolted to the cabinet leading edge.

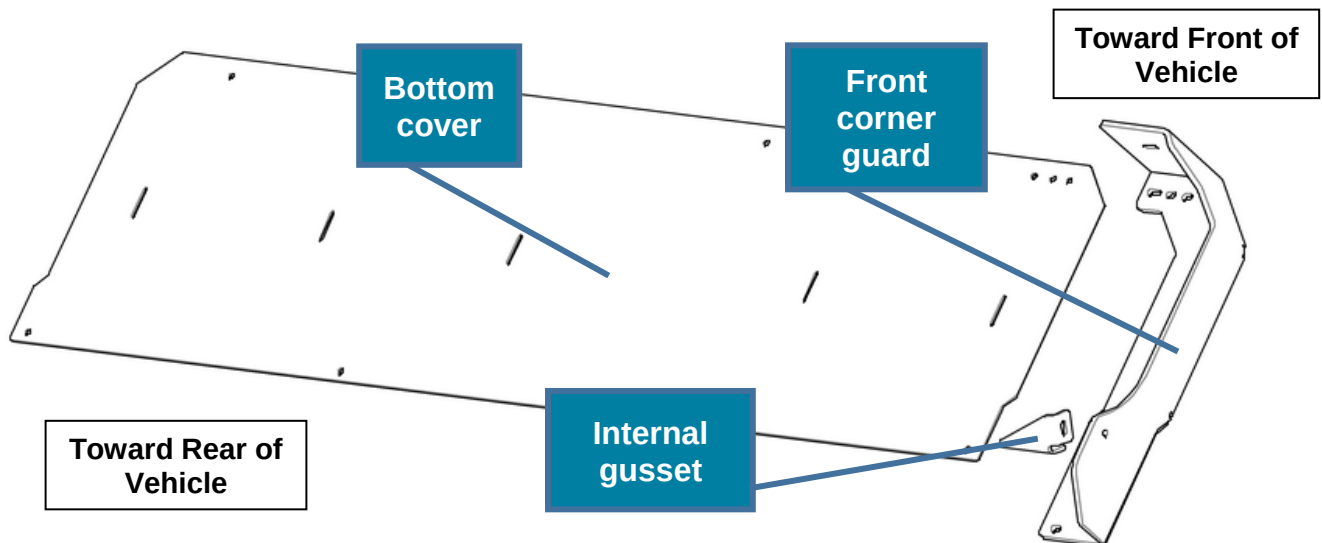


Figure 2. Part number 25799010 for right side mount systems. Part number 25799011 is for left side systems.

Warning Messages Used in this Bulletin

WARNING

Personal injury or death may occur if procedures are not followed.

CAUTION

Damage to equipment, fuel system or vehicle is possible if instructions are not followed.

2. Affected Units

The shield plate kits are made for Agility Fuel Solutions 257 series left- or right-side mounted CNG fuel systems.

3. Corrective Action

Does not apply. This is an option to help increase cylinder protection.

4. Tools and Materials

- Personal protective equipment (PPE), including eye protection.
- Common hand and power tools for CNG fuel system maintenance and service.
- 25799011 for left hand side, with fuel management module (FMM)
- 25799010 for right hand side and no FMM
- Fasteners can be cleaned and re-used if they are un-damaged.

Table 1. List of fasteners, one set

Fastener	Qty.
3/8-in. nut clip	10
1/4-in. nut clip	1
1/4-in flat washer	1
1/4-in. split lock washer	1
1/4-20 x 1.5-in. hex head bolt, Grade 8	1
3/8-in. flat washer	14
3/8-in. split lock washer	10
3/8-16 x 1.75-in. hex head bolt, Grade 8	2
3/8-16 x 1.5-in. hex head bolt, Grade 8	12
3/8-16 top lock nut	4

⚠ WARNING ⚠ CAUTION

- A. Use proper lifting techniques to prevent injuries.
- B. Exercise caution when drilling. Do not allow the drill bit to contact the cylinder, PRD, tubing or other components.

5. Procedure

The right side kit (25799010) is used to illustrate the steps below.

1. Remove the 3/8-in. bolts securing the existing aluminum bottom cover and replace with the new steel cover.
2. See Figures 2, 3, 4 and 5. Install the front corner guard.

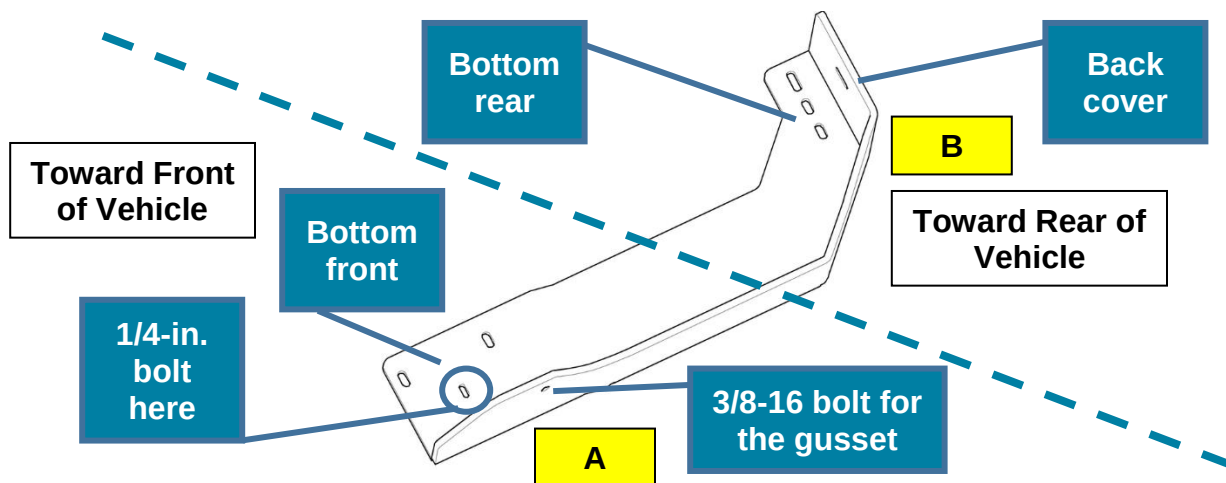


Figure 3. The front corner guard is attached with 8 bolts. “A” refers to the detail in Figure 4. “B” refers the detail in Figure 5.

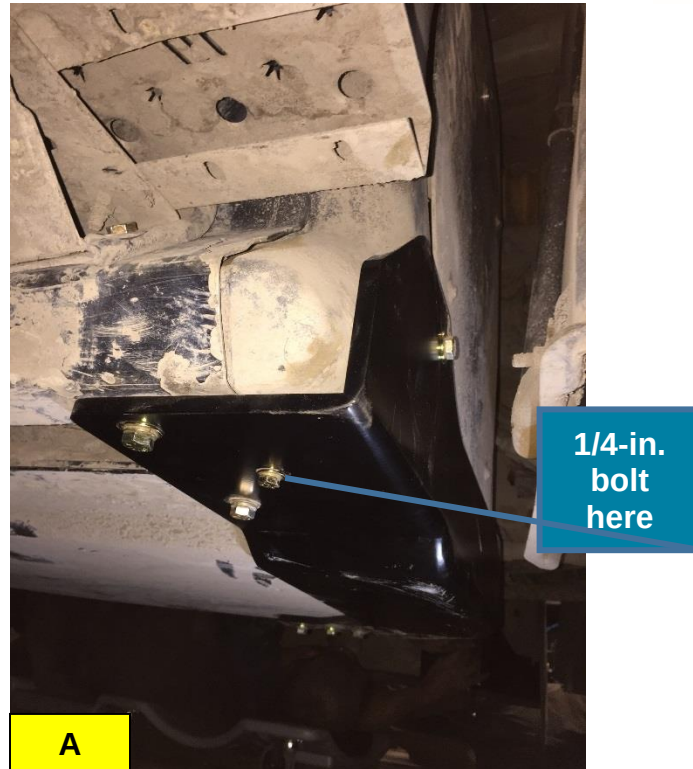


Figure 4. New shield in place near the front of the vehicle.



Figure 5. New shield in place near the rear of the vehicle.

3. Refer to Figure 6. The corner guard is attached with a total of 8 bolts:
 - a. System cabinet bottom rear, 3 bolts: Two existing 3/8-in. holes are occupied with flat head Allen bolts. These are removed and replaced with 3/8-in. x 1.75-in. hex head bolts. One new hole must be drilled for a 3/8-16 x 1.5-in. hex head bolt.

- b. You may use the corner guard as a drilling template to simplify the task. Drill carefully and avoid drilling into the cylinder, PRD or any tubing inside the cabinet.

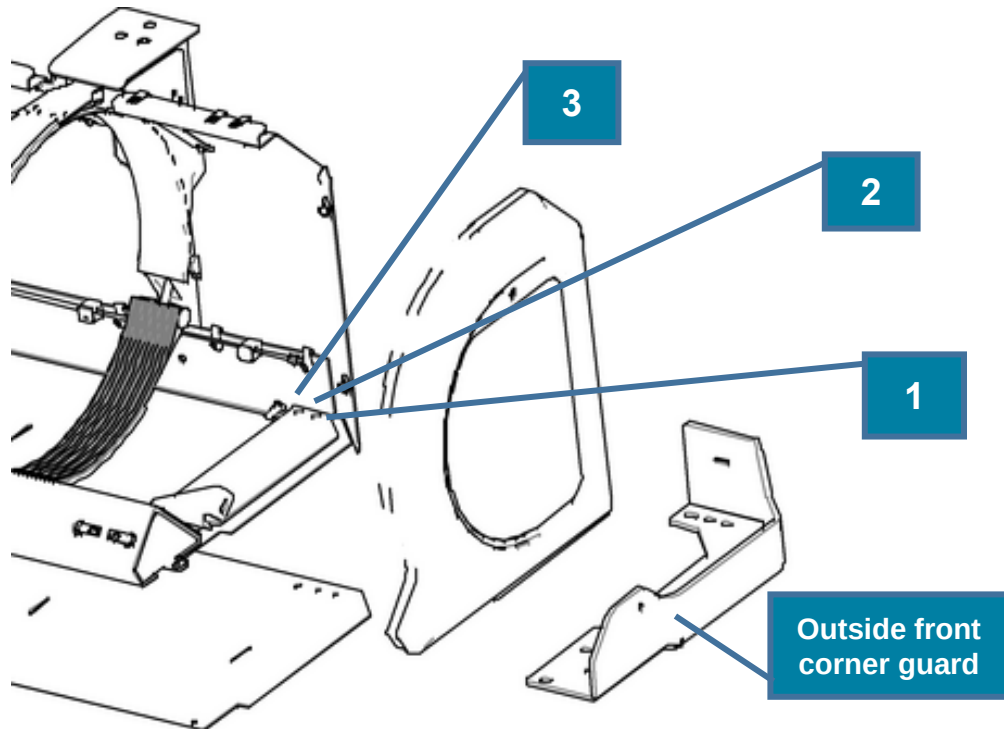


Figure 6. Existing holes 1 and 2 are occupied with 3/8-16 flat head Allen bolts. Remove these and replace them with 3/8-16 x 1.75-in. hex head bolts. The existing nut-clip (3) will be used for the third 3/8-16 x 1.5-in. hex head bolt.

- c. Cabinet rear cover, 1 bolt: One 3/8-16 x 1.5-in. bolt is used to fasten the guard and the back cover.
- d. Cabinet bottom front, 3 bolts: Slots in a triangular pattern are used for the bottom front. One hole is for a 1/4-20 bolt as indicated in Figures 3 and 4.
- e. Bottom front to the front extrusion, 1 bolt, see Figures 3 and 4.
- f. Next, install the internal gusset.



Figure 7. A closer view of the front corner guard.



Figure 8. Front corner guard view from under the vehicle.

4. The internal gusset at the end of the cylinder cabinet is mounted with 2 bolts, see Figure 9.



Figure 9. The internal gusset is held in place with two bolts.

- a. Drill one new 3/8-in. hole in the plastic end cap as shown in Figure 10. Use the corner guard already installed to locate the hole.
- b. Fasten the corner using a 3/8-16 x 1.5-in. hex head bolt.



Figure 10. The corner bolt near the D-plate door is also used to attach the internal gusset.

- c. See Figure 11. The second of two bolts for the internal gusset is located inside the system cabinet, at the bottom of the D-plate door opening. Use the outer-most hole of the two. Mount the gusset using a 3/8-16 x 1.5-in. hex head bolt.

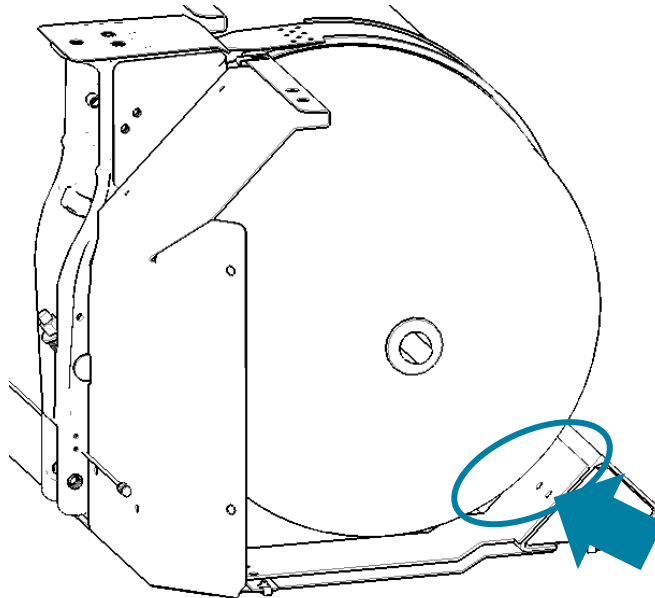


Figure 11. The second of two bolts for the internal gusset. Use the outer-most bolt location.



Figure 12. A view of the front corner guard. The guard is partially obscured by the step.

9. Warranty Information

1. The kit of parts is covered under the standard warranty.
2. Standard installation time is one (1) hour per side.

If you have any questions, contact Agility Fuel Solutions Customer Care: +1 949 267 7745, toll free: +1 855 500 2445 or support@agilityfs.com.

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Agility Fuel Solutions
3335 Susan Street Suite 100
Costa Mesa, CA 92626 USA
www.agilityfuelsolutions.com