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BKIT-VFX69383

Assembly and Installation Instructions

The BKIT-VFX69383 accessories can aid the installation of Laird Connectivity's Gar and Barracuda vehicular antenna family for installation on certain Ford Explorer Interceptor and other vehicles with unique roof ridges. The use of these adapters can help ensure a water-tight interface between the antenna and the vehicle.

The BKIT-VFX69383-001 is intended for applications in which the antenna is located between roof ridges, thus allowing the antenna to rise above lower ridge taper areas that could restrict the antenna from sitting fully flat between the ridges. The BKIT-VFX69383-003 is intended for use atop the ridge, wrapping around the edge of the ridge to provide more interface area contact to prevent water ingress.

PARTS LIST

BKIT-VFX69383-001

No.	Part Number	Qty.	Description
1	107-00140	1	Pad, rubber base plate
2	153-00149	1	Drill template (cardboard)
3	166-00066	1	Foam fixture
4	107-00144	2	Foam core

BKIT-VFX69383-003

No.	Part Number	Qty.	Description
1	107-00148	1	Pad, rubber base plate
2	153-00149	1	Drill template (cardboard)
3	166-00066	1	Foam fixture
4	107-00144	2	Foam core

To assemble, follow these steps:

1. Place the foam fixture on a flat, solid surface.
2. Insert the antenna into the foam fixture.
3. Remove the liner from the rubber pad (antenna side).
4. Arrange the antenna cable and insert it through the center hole of the rubber pad.
5. Securely stick the rubber pad to the top of the antenna.
6. Install the two supplied foam cores (107-00144). Remove the liner, position the foam cores as shown in Figure 2, and press them into place.

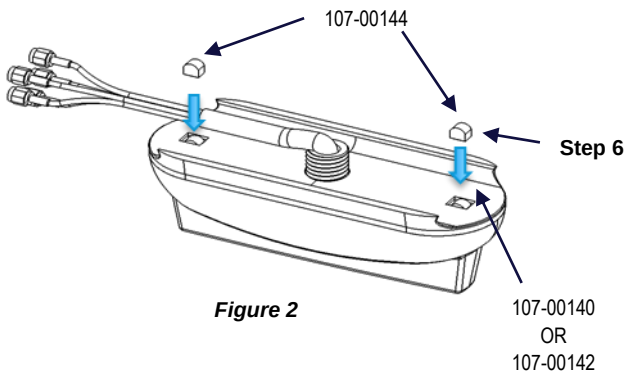


Figure 2

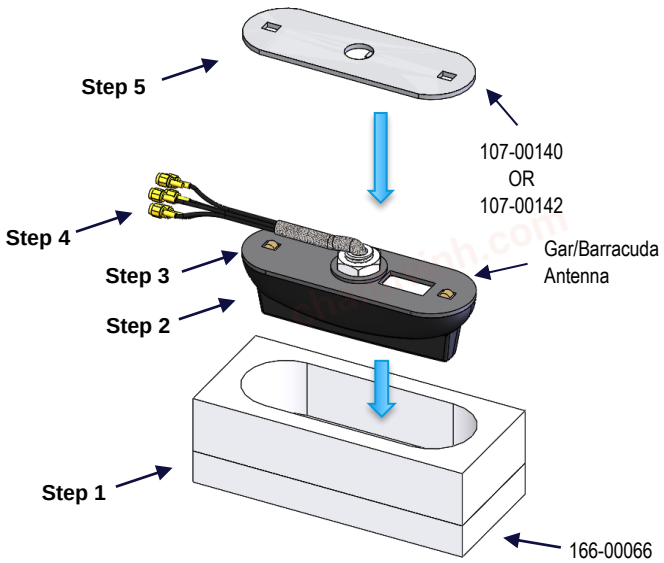


Figure 1

DRILL TEMPLATE (Cardboard)

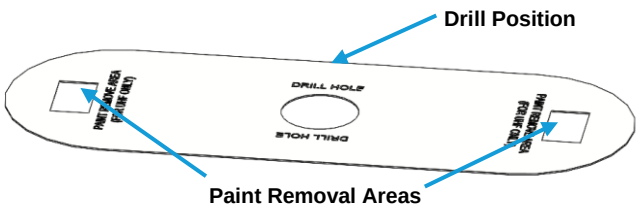


Figure 3

1. Place the cardboard drilling template on the desired location of the roof top of vehicle.
2. Use the drill template as a guide to drill a hole to fix the antenna.
3. Mark the location for drilling.

For better UHF performance (option):

4. Following the template, mark the Paint Removal Areas (shown in Figure 3).
5. Remove the paint in these areas to ensure the best performance of the antenna.

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LOCATION

The antenna should be mounted on the desired location before connecting the cable. This ensures that the cable is not twisted or damaged during the mounting of the antenna..

MOUNTING

Use the following as guidance when mounting the antenna:

Note: The mounting area should be clean of any debris, clear from obstructions, and as flat as possible.

1. Punch or drill a 21-millimeter hole in the roof of the vehicle.

   Note: A 300-millimeter clearance radius around the antenna is recommended.

   The recommended orientation is facing the front of the vehicle with cables facing the rear. Refer to Figures 4 and 5.
2. Feed the cables from the bottom of the antenna through the topside of the 21-millimeter hole.
3. Peel the adhesive covering on the bottom side of the antenna's gasket.
4. Place the threads of the antenna through the hole so that the gasket of the antenna is flat on the vehicle surface.
5. Slide the lock-nut and washer around the five cables and finger-tighten to the stud of the antenna.
6. Tighten the nut with a wrench using 10 Nm (Max 15 Nm) of torque.
7. Use a short service loop (slack) with tie-downs to secure the antenna cables such that any force or movement will not be transmitted to the antenna connectors or the apparatus. Minimum bending radius for the cable exiting the bottom of the antenna is 10 millimeters.

Antenna with BKIT-VFX69383-001

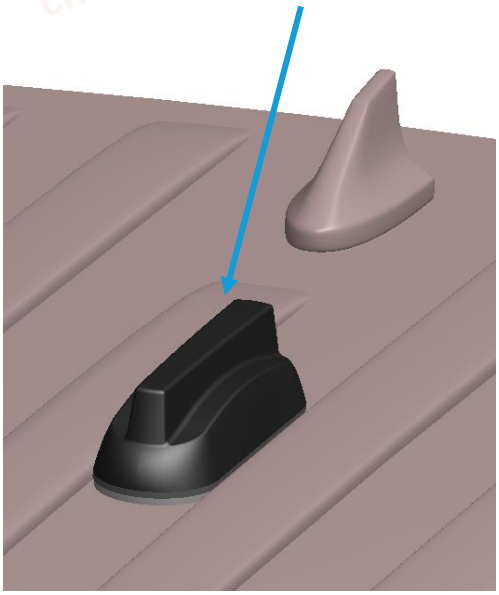


Figure 4

Antenna with BKIT-VFX69383-003

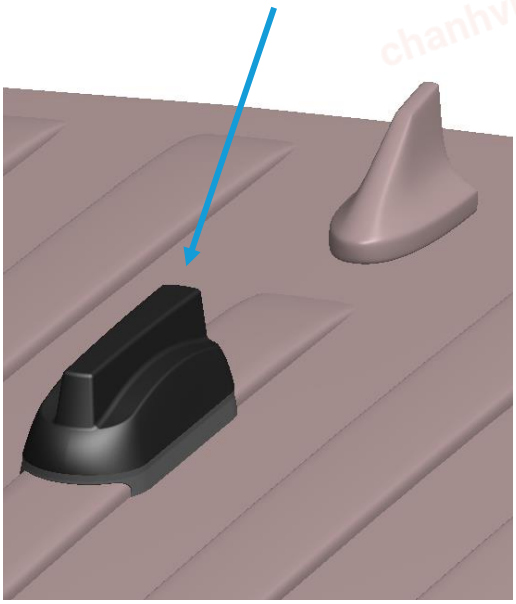


Figure 5

RoHS

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