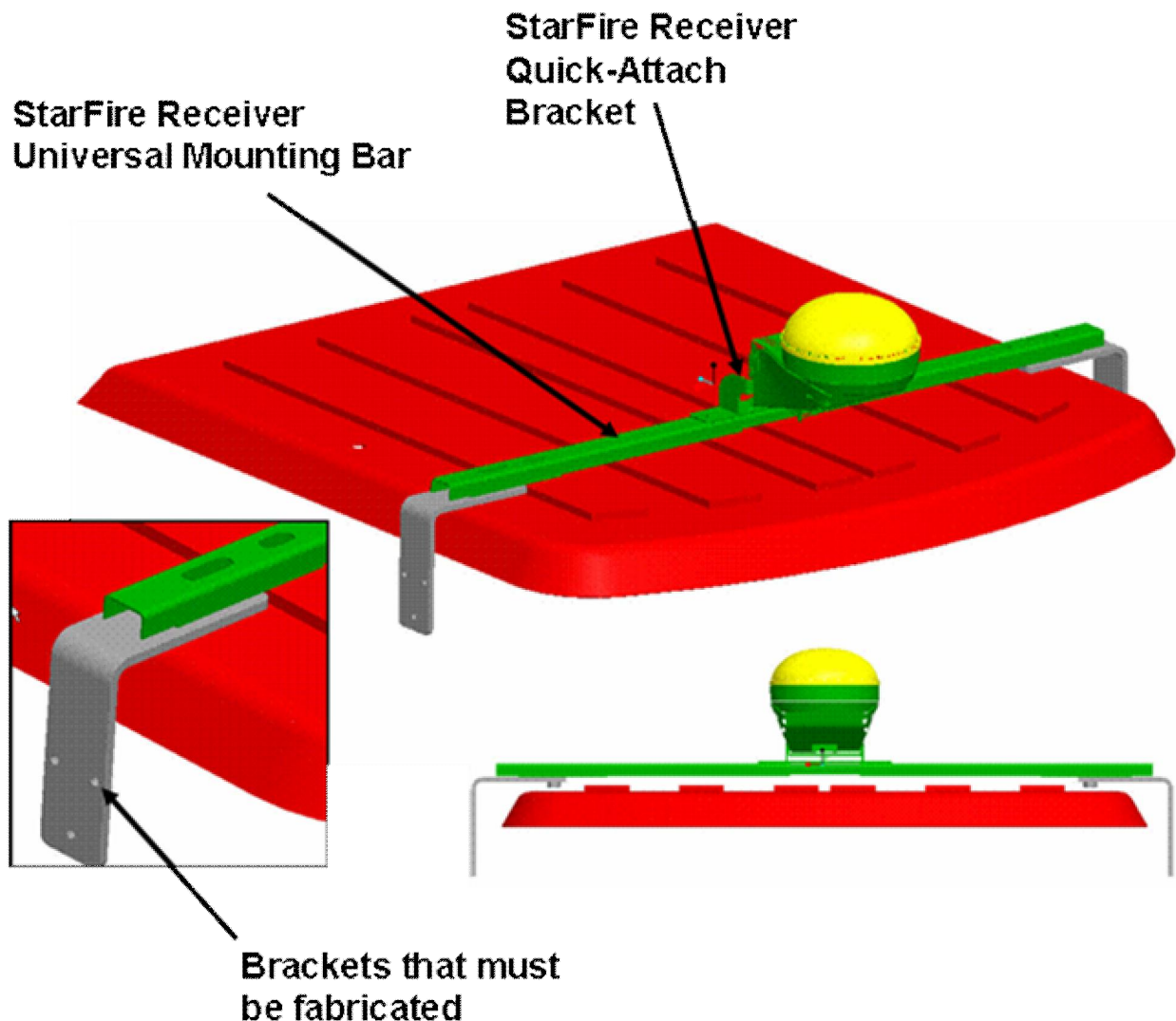


Design Guidelines - StarFire Bracket

A GreenStar Ready Kit is required to install ATU on this platform. This kit includes a StarFire Receiver Universal Mounting Bar and Quick-Attach bracket. This Universal Bar with its installed StarFire Quick-Attach bracket was designed to be attached to the cab roof of most vehicles using the vehicle's cab lift bolts. Unfortunately, this vehicle has no cab lift bolts, so you must design and fabricate brackets to provide a substitute mounting for the Universal Bar and/or the Quick-Attach bracket.

The figure below shows one method that could be used to attach the Universal Bar using L-brackets. If using this method, you will need to design and fabricate a set of L-brackets that properly fit this vehicle platform and securely bolt them to its structure.





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Clearly, other bracket designs are possible to mount either the Universal Bar with its installed Quick-Attach Bracket or the Quick-Attach bracket alone (without the Universal Bar). Regardless of the design selected, the following guidelines should be followed:

- Ensure that the brackets are designed stout enough to support the weight of the StarFire receiver, the Quick-Attach bracket, and the Universal Bar (if used) in field conditions. Please note that the total assembly can weigh as much as 20 lbs.
- Design the brackets in such a way that the overall receiver bracket is attached to the vehicle structure in two locations. This will help ensure that if one mounting location fails, the other mounting location will temporarily hold the receiver in place to prevent damage to the receiver or vehicle until repairs can be made.
- Ensure that the brackets are attached to a solid surface (preferably metal) on the vehicle structure (for example, attachment points might be part of the roof substructure or the cab corner posts). Generally, attaching brackets to a plastic surface (such as the cab roof) will not be sufficient and may eventually fail.
- For best ATU performance, the brackets should be designed so that the receiver ends up in a location that is laterally centered and toward the front of the vehicle cab. Other locations are acceptable (and can be appropriately defined using the ATU software) but may result in reduced performance.
- The receiver must be mounted so that it is facing either directly forward or directly rearward with respect to the forward/reverse axis of vehicle travel (as shown in the previous figure). ATU will not function properly if the receiver is mounted at some odd angle with respect to the vehicle's forward/reverse direction of travel.
- The receiver should be mounted so that its view of the sky is not obstructed by any part of the vehicle structure. This generally means that the receiver should be mounted as high on the vehicle as possible.