



PATENT PENDING

Smart Door Installation Instructions



PRODUCT INSTALLATION GUIDE

Prior to beginning this or any installation, completely read these instructions to familiarize yourself with the required steps and evaluate if you are experienced and capable to personally perform these modifications.

Refer to the parts list to ensure that all necessary components and hardware have been included. If any parts are missing, please contact your local retailer for assistance.

Tools Needed:

- Marker
- Tape
- Drill
- Center Punch
- Hammer
- Allen Wrenches (3mm & 5/32")
- Socket Wrench (7/16" & 13mm)
- Drill Bit (5/16")
- 1 3/4" Bi-Metal Hole Saw
- Touch-up Paint
- Silicone Sealant
- Pillow or Towel

Kit Includes:

2 Door Jeep® Wrangler:

- 1 Left Door Check Strap/Arm
- 1 Left Hinge Plate
- 1 Right Door Check Strap/Arm
- 1 Right Hinge Plate
- 2 Washer Hinge Plate Plugs
- 1 Left Door Cutting Template
- 1 Right Door Cutting Template
- 4 Clip-on Nuts
- 4 3mm Nuts & Washers
- 4 13mm Replacement Hinge Bolts
- 4 10mm Hinge Plate Nuts & Washers
- 4 1" Long Socket Head Screws & Washers
- 2 Fabric Extension Straps & Binder Posts

Kit Includes:

4 Door Jeep® Wrangler:

- 2 Left Door Check Strap/Arm
- 2 Left Hinge Plates
- 2 Right Door Check Strap/Arm
- 2 Right Hinge Plates
- 4 Washer Hinge Plate Plugs
- 1 Left Door Cutting Template
- 1 Right Door Cutting Template
- 8 Clip-on Nuts
- 8 3mm Nuts & Washers
- 8 13mm Replacement Hinge Bolts
- 8 10mm Hinge Plate Nuts & Washers
- 8 1" Long Socket Head Screws & Washers
- 2 Fabric Extension Straps & Binder Posts
- 2 Key Metal Rings

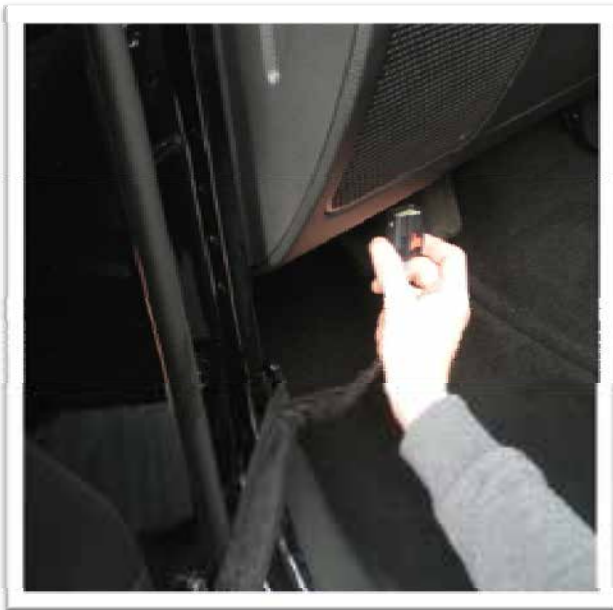
View our installation video at:
starfabricating.com

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Smart Door Bracket Installation

Front Doors

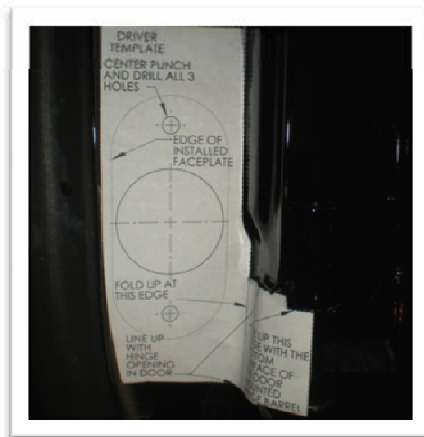
1. Remove the factory mirrors to avoid damaging the side of the Jeep & cowl. The mirrors are simple to remove. Roll down the windows and remove the two bolts on the interior panel on the door. Hold the mirror with other hand so that it doesn't fall off as the bolts are removed. 2011 models equipped with power and heated mirrors cannot be removed because there are no disconnects for the electrical connection. Special care will need to be taken to avoid damage to the hood and cowl.
2. Remove the factory fabric check strap & the electrical connection pin like you are removing your doors. Place a pillow or rolled up towel against the body near the cowl and open the door so that it is fully extended resting against towel or pillow. Secure the door with bungee cords if possible.



3. Remove the top hex bolt that secures the factory lower door hinge to the body inside the door. Place the new hinge plate bracket in position, making sure to leave enough room to remove the lower bolt (see photos). Secure the hinge plate into position with the new longer 13mm replacement bolt that was supplied with the kit. Now remove the lower factory hinge bolt & then replace the bolt with the new longer 13mm bolt & supplied washer plug that fills in the hole.



4. Using the supplied template, follow the cutting instructions. Measure twice & cut once. This is the most critical step & special care needs to be taken to make sure that the holes are drilled in the correct places. Place & tape the template onto the inside section on the door, making sure that all positioning lines match up. Lightly mark the drilling positions using a center punch. Double check to make sure that everything lines up & then using the 1-3/4" Bi-Metal Cutting Saw, drill the center hole.



5. Now insert the Smart Door Check Strap into the newly drilled 1-3/4" hole & then attach the arm bracket onto the screw posts on the newly installed hinge plate bracket. Secure arm bracket into position using the supplied 10mm nuts & washers. Now make sure that the upper & lower center punch marks are lined up horizontally before drilling the holes. Remove the part & then drill the upper & lower holes using a 5/16" inch drill bit.



6. Use touch-up paint to paint the newly drilled holes to prevent rust and if possible, vacuum the metal shavings inside the door. Use the supplied Clip-on Nuts & attach them to the upper and lower holes. Lightly cover the back side of the Smart Door check strap plate with silicone to prevent abrasion & to create a water tight seal. Insert the check strap bracket into the hole. Make sure you check the left and right stamp on the plastic arm. The Left doors will have the (L) facing up, & the right doors will have the (R) facing up. Secure the part into position using the supplied 1" Long Socket Head Screws & Washers.



7. Secure arm bracket into position using the supplied 10mm nuts & washers. Check to make sure that the door runs smoothly, making sure that nothing is binding. If you do feel anything binding, **STOP** moving the door as it will damage the part. Check to make sure that everything is aligned. There is room to adjust the part if needed. Once everything is aligned, tighten all of the bolts and screws.

8. Use the supplied fabric strap extensions to lengthen the factory door strap. This step will allow the door to open to its fullest potential with the new Smart Door Check Strap installed. Place the supplied fabric extension strap over the top of the factory strap (see photo) & then mark the hole. Take a small Phillips screw driver to make a hole in the factory strap. TIP – heating up the tip of the screw driver with a lighter will allow the hole to be easily made. Attach the extension into place using the supplied binder post. This strap will remain intact, as it houses all wiring for power options in the door.



9. Plug the electrical connection back into place & then reattach the lengthen fabric door strap. Attach the factory mirror. Check to make sure that the door runs smoothly & make sure that nothing is binding. If you feel binding in the door **STOP** moving the door as it will damage the part. Check to make sure that everything is aligned. There is room to adjust the part if needed.

Follow the same steps to install parts on the other front door.



Rear Doors

1. Slide the front seats forward. Remove the plastic plate on the interior center pillar seatbelt box to remove the fabric strap like you are removing your doors. Remove the electrical connection. Place a pillow or rolled up towel against the front door and open the rear door so that it is fully extended resting against the pillow or towel. Secure the door in position using bungee cords if possible.
2. Follow the same steps as the front door beginning with step 3 to 8.
3. After installing the part use the supplied key rings and loop them around the factory fabric strap hole & then attach the ring to the factory mounting strap hardware inside the seatbelt box. Plug the electrical connection back into place. Check to make sure that the door runs smoothly, making sure that nothing is binding. If you do feel binding, **STOP** moving the door as it will damage the part. Check to make sure that everything is aligned. There is room to adjust the part if needed. Once everything is aligned, tighten all of the bolts and screws.
4. Follow the same step to install other parts on the other rear door.



PRODUCT INFORMATION

MAINTENANCE INFORMATION:

It is the buyer's responsibility to check for proper tightness and torque after the first 100 miles after the installation of these parts.

WARNING:

Neither the seller nor the manufacturer will be liable for any loss, damage, or injury directly or indirectly arising from the use of or inability to determine the use of these products. Before using, the user shall determine the suitability of the products for its intended use, and the user shall assume all responsibility and risk in connection therewith. **Important Notes: THESE BRACKETS ARE DESIGNED FOR OFF HIGHWAY USE ONLY!**

WARNING TO DRIVER:

Star Fabricating will not be responsible for any altered product or any improper installation or use of our products. We will be happy to answer any questions concerning the design, function, and correct use of our products. It is ultimately the buyer's responsibility to have all bolts/nuts checked for tightness after the first 100 miles after installing these parts.

STAR FABRICATING PRODUCT WARRANTY:

Star Fabricating warrants this product to the original retail purchaser to be free of defects in material and workmanship for as long as the original purchaser owns the vehicle on which products were originally installed. Star Fabricating products are covered by Star Fabricating's one (1) year warranty to be free of defects in material and workmanship for 1(12 months) year from date purchased.

This warranty does not cover or include product finish, improperly installed or applied products, improperly maintained products, products or components used for racing or competition or damage due to abuse or neglect.

All returns must be accompanied by an original invoice. It is the customer's responsibility to remove the product from the vehicle. Shipping charges are the responsibility of the customer. Star Fabricating will pay the return freight.

This warranty is for the replacement or repair of defective Star Fabricating products only, and does not include freight charges, labor charges for removal of or installation of Star Fabricating or related products or components, costs incurred due to down time of the vehicle, or lost profits due to vehicle down time.

A returned goods authorization number (RGA#) must accompany any returned products. For more information please contact a Star Fabricating Customer Service Representative.

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