

# Power Hopper Topper 150 bu Kit for JD S660/670, S760/770

## Installation Instructions

**Tools needed.** Ratchet 13mm, 18mm sockets and 13mm, 18mm wrenches, Drill (cordless preferable), 11/32, 5/16 and 3/16 drill bits, pocket/utility knife (also helpful, silicone sealer, sharpie marker, flashlight, extendable magnet to fish dropped hardware from auger trough).

1. Open combine hopper covers and access grain tank from engine compartment. Front and rear extension panels are identical, using the same hardware and installation process.
2. Remove the top two nuts (13 mm socket) and washers (1<sup>st</sup> picture p.2) where the Factory vinyl corners are bolted to the side covers and front/rear panels (4 locations front and back). Remove bolt (18mm socket and wrench) where the folding arms (2<sup>nd</sup> & 3<sup>rd</sup> pictures p, 2) attach to front/rear panel brackets and fold arms out of the way.
3. Start installing the extension vinyl panel at one of the side cover mounting locations where nuts and washers were removed, **(with horizontal reinforcement strapping on vinyl facing out)**. Reinstall washers and nuts once extension grommet holes are matched to bolts. (Finger tighten all hardware until extensions are completely mounted).
4. Match the next set of extension grommet holes to the top 2 bolts on both sides of the front/rear panel, 2 support brackets are installed **(inside/over extensions)** on the top 2 bolts of the front/rear panel, reinstall washers and nuts. Mount extensions to support brackets using 5/16" x 1" bolts, washers and nuts. (1<sup>st</sup> picture p.2). The extensions will need to cut around the folding arm brackets, by cutting slits at the bracket locations (2<sup>nd</sup> & 3<sup>rd</sup> pictures p.2). Match next set of grommet holes to the other side cover bolts, reinstall washers and nuts.
5. Next, attach center horizontal reinforcing strap to the side cover at the grommet hole. Hold the strap with your fingers at the grommet hole to the side cover so that all the slack is removed, then pull rearward (if front extension) or forwards (if rear extension), until the grommet has about 3/8" gap from the side cover. Mark the grommet location on side cover and drill hole using 5/16" drill. Install 5/16" x 1 1/2" bolt with large washer on the outside of side cover, (silicone sealer at the base of bolt/large washer will seal bolt hole and help hold bolt in place during installation). Install regular 5/16" washer and nut on the inside to secure center strap. Repeat this process on the other end of the extension panel.
6. The top end grommet holes of the extensions are mounted on 2 sides of the stiffener beam that run the upper length of the side covers, (4<sup>th</sup> picture p.2). The top hole will be mounted using 5/16" x 4" bolts. Hold the end of the extension at top grommet hole with your finger up to the side of the stiffener beam so that all slack is removed, then pull rearwards (if front extension) or forwards (if rear extension) until the grommet has about 1/2" gap from the stiffener beam. (This gap, when tightened to stiffener beam, gives some tension to the extension when open). Mark grommet location and drill (5/16") all the way thru the outer side cover. Install 5/16" x 4" bolt with large washer on the outside and small washer and nut inside. Mount the lower end grommet to the lower side of the stiffener beam by marking grommet location and predrilling (3/16"), install lag screw with regular washer, **(Tighten lag screw until snug, don't strip out). Retighten all hardware location!!!!**
7. The grain sample slide channel needs to be removed or relocated. (5<sup>th</sup> picture p.2) To relocate, remove mounting bolt and move channel forward, this will put the new mounting hole (11/32" drill), about 5 3/4" up from the original hole and on the outer edge of the channel bottom.

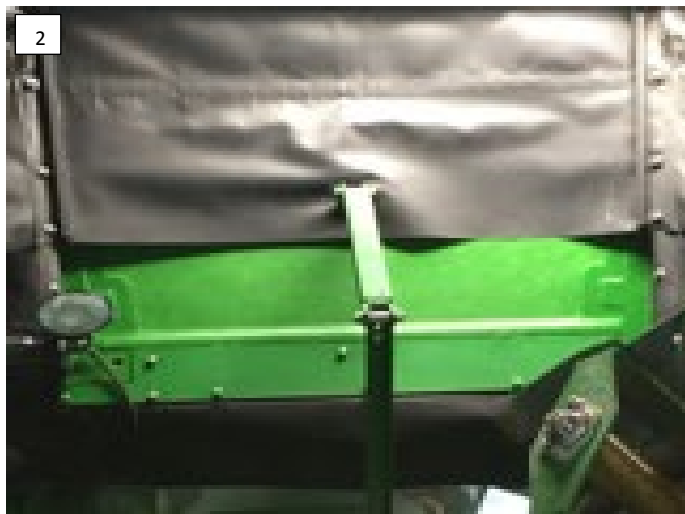
**Troubleshooting:** There have been several calls about installation trouble on the right front corner. The cause of the problem is the factory adjustment of the control rod that raises/lowers the clean grain fountain auger. This control rod is connected to the right front folding arm and the fountain auger lift mechanism and is often adjusted too short/tight causing the right front side cover not to open completely. The solution is to adjust the control rod so that the folding arm/side cover can completely open and there is no tension on the control rod when the covers are open. This may take a few open/close cycles of the grain tank covers to ensure the covers fully open and the fountain auger raises properly. Be sure to tighten the control rod jam nut when adjustments are completed. There has been the odd occasion when grain has leaked out between the extension vinyl and the

factory vinyl corners, usually at the front corners when travelling into the wind, harvesting dry grain. The solution is to drill a small (1/4") hole thru the extension vinyl and factory vinyl, just above the plastic windows and installing a 1/4 bolt, washers and nuts.

Support bracket installation locations, (brackets install inside extensions)



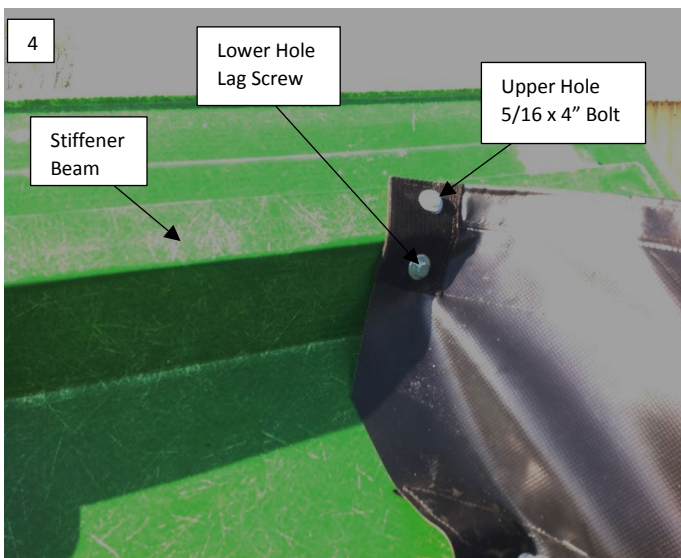
Extension installation at folding arm brackets



Side mounting locations



Sample slide relocation



For further installation help, call Gilles (765) 348-9201