

Attn: Make sure the side hopper panel folding arm hinge bolts have been installed threaded ends in, facing each other.

Tools needed: Ratchet and 13 mm socket and 13mm wrench, drill (cordless preferable), 11/32, 7/32, 1/8 drill bits.

Also helpful, sharpie marker, flashlight, extendable magnet to fish dropped hardware from auger trough.

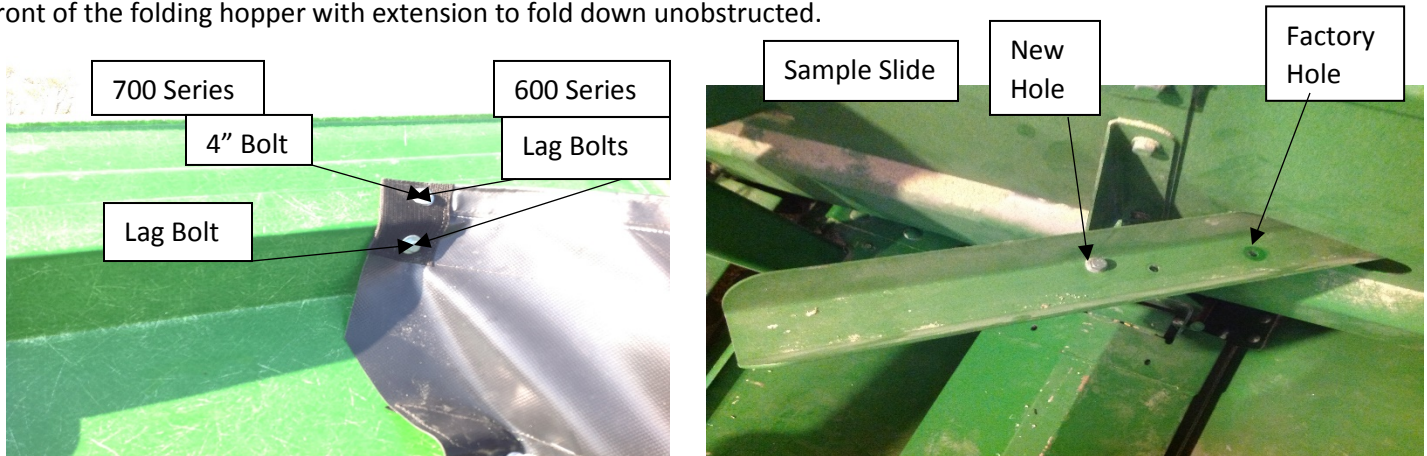
PHT 50 bu kit for S680/690, S780/790 Installation Instruction

For 700 series, installation read updates on page 2 before starting.

1. Open combine hopper covers and access hopper from engine compartment. Front and rear extensions are identical using the same hardware and installation process.
2. Remove the top two nuts and washers where factory flex corners of the hopper are bolted to the rigid sides and front/rear rigid panel (4 locations front and rear).
3. Start installing the PHT extensions at one of the side mounting locations where nuts and washers were removed, **(with horizontal reinforcement webbing on extension facing out and on top)**. Reinstall washers and nuts once grommets are matched to bolts.
4. Match the next set of grommets to the bolts in the Front/Rear rigid panel, **(add standup brackets, installed inside/over the extension with twisted end down)**, mounted to the top bolts on the Front/Rear rigid panel and reinstall washers and nuts. (It may be necessary to install the nut without the washer on the standup bracket and tighten to compress grommet before washer is installed.)
5. Install bolts (5/16x1"), washers and nuts to the top of the standup brackets and the top grommets in the extension.
6. Match the next set of grommets to the other side panel bolts, reinstall washers and nuts.
7. The upper ends of the extensions are attached on the 2 sides of the reinforcement beam (see picture below) that runs along the upper length of the hopper sides **(700 series refer to P2 update for end attachment details)** using 5/16x1" lag screws (For 600 series). Hold the end of the extensions up to the hopper side so as to remove all slack from extension then pull the end back (if front extension or forward if rear extension) until upper end grommet is about 3/8 of an inch from the hopper sides. (This gap provides tension when tightened down). Mark and predrill (7/32) this location and install lag screw and tighten until snug (do not over tighten lag screws). Then mark and predrill lower-end grommet, install lag screw with washer and tighten. Follow this process for the opposite end of extension.

Retighten all hardware locations ...Standup brackets can be bent out to tighten extension appearance when empty.

8. The Grain sample slide channel needs to be relocated or removed. (See picture below). To relocate, remove mounting bolt and move channel forward and the bottom end towards the outside of the combine, 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. This allows the front of the folding hopper with extension to fold down unobstructed.



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

Page 2

There have been occasions where adding extensions to the Power folding grain tank have caused the power fold to open too slowly. This can be resolved by adding a gas strut to the left rear-folding arm as pictured below. You can use JD part # AXE 17977, which is the same gas strut that helps raise the clean grain auger in the grain tank for this purpose.

Install Gas strut with rod end down.

If stud balls are not already installed in gas strut, install the stud balls in the Gas strut ends by pulling wire pins from the strut ends, installing the stud balls then reinstalling the wire pins.

Drill a 5/16" or slightly bigger hole in the Auger cover bracket between the top edge and first slotted hole and install the rod end nut.

Hold the other end of the strut to the folding arm and mark the location for the top hole in the folding arm.

Drill a 5/16 or slightly bigger hole in the folding arm.

Before installing the top end of the strut, it may be necessary to turn around the top bolt at the base of the folding arm for strut clearance when installed.

Install the top end of the strut and install nut.



For kit installation on 700 S series Combines, there is a change in the installation that you need to be aware of. Where the vinyl is attached to the side panel the top lag screw location in all 4 locations needs to be drilled all the way through the side with a 5/16 drill bit and the lag screw replaced with a 5/16 x 4" bolt, washers and nut.

The lower lag screw location needs a smaller pilot hole, 1/8 drill bit, then the lag screw is tightened just enough to hold the vinyl to the side, don't over tighten and strip out the hole!!

On both 600 and 700 S series Combines I've found that the factory has often over tightened the control rod that runs from the right front folding arm to the tank auger lift mechanism as a result there is often excessive slack in the right front corner of the extension. This is resolved by loosening the control rod adjusting bolt so that there is no tension on the rod when open. You have to cycle the grain tank cover open and closed a few times to ensure no tension is on control rod and the tank auger is raising properly. Also, ensure that the jam nut on control rod is retightened.

There has been the odd occasion in windy conditions and harvesting very dry grain/corn, that grain can spill between the extension vinyl and the factory vinyl corners, usually from one of the front corners. This can be resolved by drilling a small hole (1/4inch) through both the extension vinyl and midway in the factory vinyl corner just above the clear plastic window and use a 1/4 bolt, washers and nut to hold the 2 layers of vinyl together. A zip tie and 2 small holes can also be used to hold the 2 layers of vinyl together.