

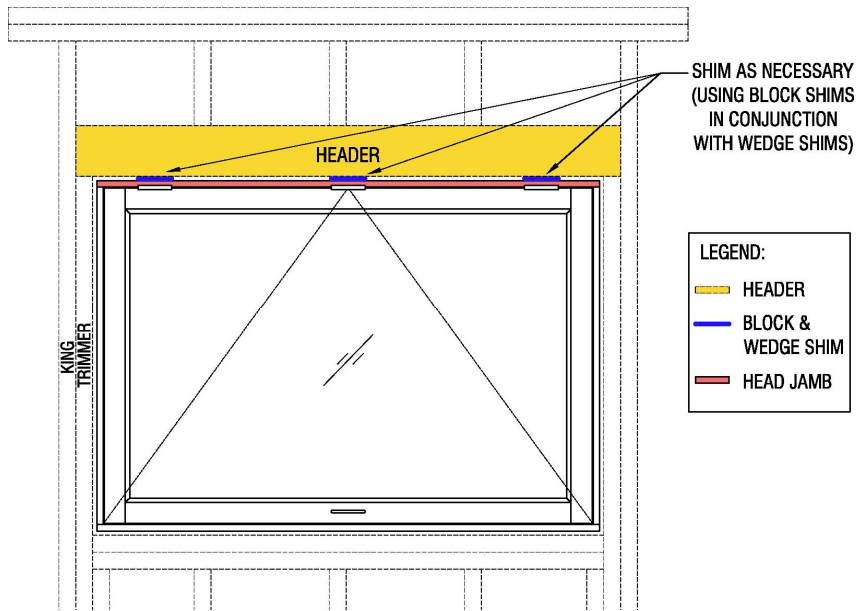
Installation & Removal of Hydraulic Gas Springs

**** SASH MUST BE IN OPEN POSITION DURING INSTALLATION & REMOVAL! ****

**** DO NOT ATTEMPT TO REMOVE GAS SPRINGS WHEN SASH IS CLOSED! INJURY WILL OCCUR! ****

BEFORE INSTALLATION:

****Using a block shim in conjunction with a wedge shim, it is IMPERITIVE to shim the window above each butt hinge (between butt hinge and header), creating proper and consistent reveals, BEFORE installing the hydraulic gas springs (see illustration below).****



Great care must be taken to ensure that no damage occurs to the rod that would damage the internal seal specifically: **DO NOT SCRATCH, DENT, BEND OR PAINT THE ROD.**

On standard gas springs there is a seal where the rod enters the body. For correct working, the rod must be lubricated by the oil within the body. For this reason, standard gas springs must be: **FITTED WITH THE ROD DOWN; STORED WITH THE ROD DOWN.**

Due to the upward force of the springs, by not using block shims in conjunction with wedge shims, top reveal may be compromised, which may not allow multi point lock to engage properly. After springs are installed and window is closed properly, there should be an 1/8" gap between sash and head jamb if you have block shimmed at each hinge properly.

For installation or removal of hydraulic gas springs, the window will need to be opened and kept open to remove the load on the gas spring. An additional person is required to assist in keeping the sash open and to prevent possible injury or damage. **If no one is available to assist you, the gas springs should not be installed/removed. Always wait until there are at least 2 people present who can handle the weight of the sash.**

The composite end fittings have a metal safety pressure clip incorporated into the fitting (see picture A). Use your index finger or thumb to dislodge the metal clip and swing open (see picture B). Pull the metal clip down until metal pin is completely removed from small pin hole (see picture C). Repeat at the opposite end.



Picture A



Picture B



Picture C

For Installation: Once metal safety pressure clip has been removed, place the socket on the rod end (A) of the spring onto the ball joint bracket attached to the jamb. Replace metal safety pressure clip in the pin hole and lock clip into place.

While second person is holding the sash in the open position, fit socket on the cartridge end (B) of the spring onto the ball joint bracket attached to the sash. Replace metal safety pressure clip in the pin hole and lock clip into place. Repeat process on opposite side of sash.

For Removal: Sash **MUST BE IN THE FULLY OPENED POSITION** with a second person holding the weight of the sash off the springs. Remove metal safety pressure clips on each end of spring, then remove spring from ball joint bracket. Repeat process on opposite side of sash. Slowly lower sash into closed position using exterior sash handle.

