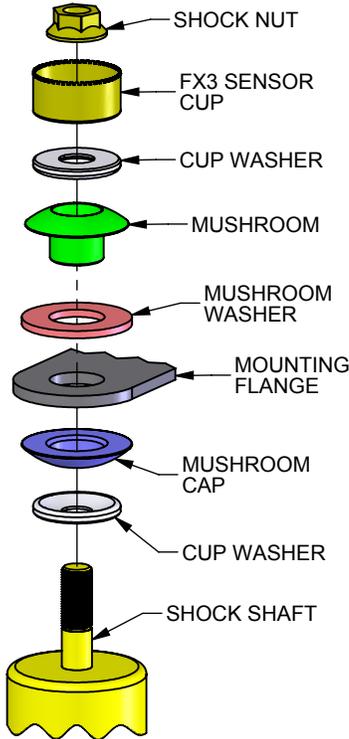


FRONT SHOCK INSTALLATION: Use the procedures outlined in your GM service manual to disassemble your front shock absorber from the suspension and remove the OE upper shock bushings.

Reassembling your shock and installing your new spherical upper mount will essentially be a stack up of the parts in the kit (see FIG 1). The mushroom and mushroom cap will install on either side of the mounting flange with the mushroom washer. These parts provide the low friction spherical surface that the cup washers will be in contact with. You will notice that the mushroom washer is a fabric reinforced rubber material. This material will compress and act as a spring (or lock washer) later in the installation. See notes 1 and 2 below for items of interest regarding the installation of the spherical surface.

FIG 1

(colors used to distinguish parts only)



NOTE 1: it makes no difference which side the mushroom, mushroom cap and mushroom washer go on. Typically the mushroom washer will go under the head of the mushroom which is then installed in the mounting flange with the "stem" of the mushroom pointing down. The mushroom cap is then installed on the exposed end of the mushroom stem, completing the installation of the spherical surface. This technique helps keep the mushroom, mushroom washer and mushroom cap in place during the rest of the installation because the heaviest part (the mushroom) is supported by the mounting flange (see FIG 2). However, if your particular installation is eased by putting the mushroom on the bottom with the stem pointing upward, and/or putting the mushroom washer under the head of the mushroom cap, it is entirely permissible to do so.

NOTE 2: once the spherical surface is installed check to ensure that the stem of the mushroom is not protruding beyond the spherical surface of the mushroom cap (see FIG 3). This will cause the spherical surface to be irregular and will significantly reduce the effectiveness. If this is the case, simply shim one side (again it doesn't matter which side the shim goes on) as shown in FIG 4 until the stem no longer protrudes beyond the spherical surface. Standard flat washers usually work well for this but the ID (the diameter of the through hole) needs to be at least 7/8". In addition, the outside of the shim should be no larger than 1-5/8" as this may limit the amount of motion the shock mount can allow.

FIG 2

(colors used to distinguish parts only)

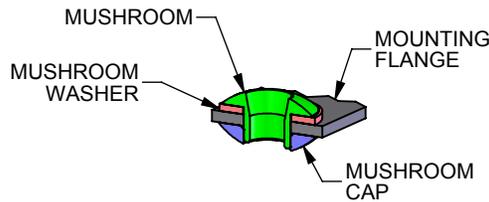


FIG 2A: TYPICAL INSTALLATION

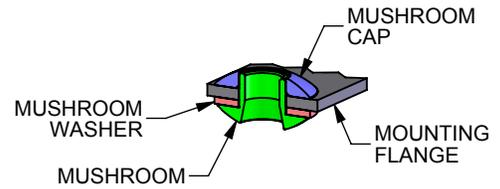


FIG 2B: ALTERNATE INSTALLATION

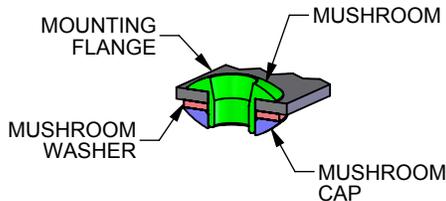


FIG 2C: ALTERNATE INSTALLATION

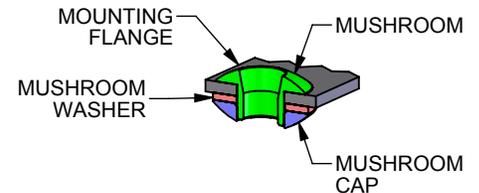


FIG 2D: ALTERNATE INSTALLATION

FIG 3

(colors used to distinguish parts only)

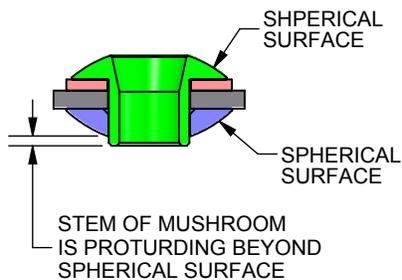
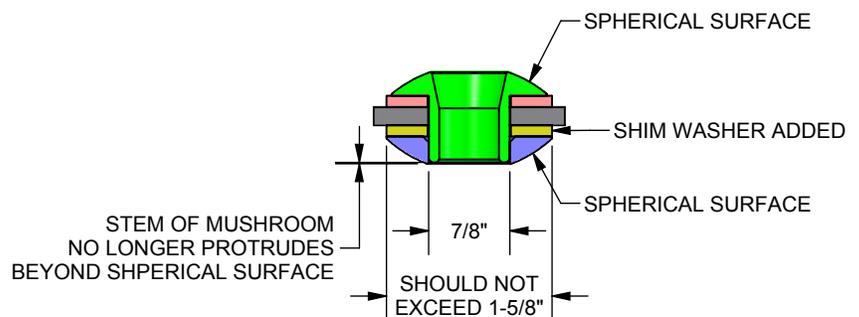


FIG 4

(colors used to distinguish parts only)



C4 Pin Top Shock Mount Installation for FX3 equipped suspensions

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FRONT SHOCK INSTALLATION (cont): Next, place a cup washer on the shock shaft and insert the shaft of the shock into the through hole on the bottom of the spherical surface. Assemble the second cup washer on the top of the spherical surface and shock shaft. Reinstall the FX3 sensor cup and secure the stack with the shock nut.

Now you are ready to do the setup of the shock mount. Overall, the goal is to get the nut on the shock shaft tight enough so there is little or no play in the direction of the axis of the shock, but not so tight as to restrict the motion of the shock shaft and cup washers. Because the nut will not be torqued you will need to secure the nut in another way. This can be accomplished by using a Nylock style nut, using a bit of thread locker on the shock shaft or adding a jam nut.

Once you have installed the nut on the shock shaft and secured it with one of the methods above (the bottom of the shock should still be disconnected at this point) try to move the shock in the direction of the shaft. Check to see if there is any play and if so, adjust the nut accordingly. You should then be able to spin the shock freely around the spherical surface with little to no resistance.

Reconnect the bottom of the shock as outlined in your GM service manual.

Finally, repeat this procedure for the other front shock.

FIG 5

(colors used to distinguish parts only)

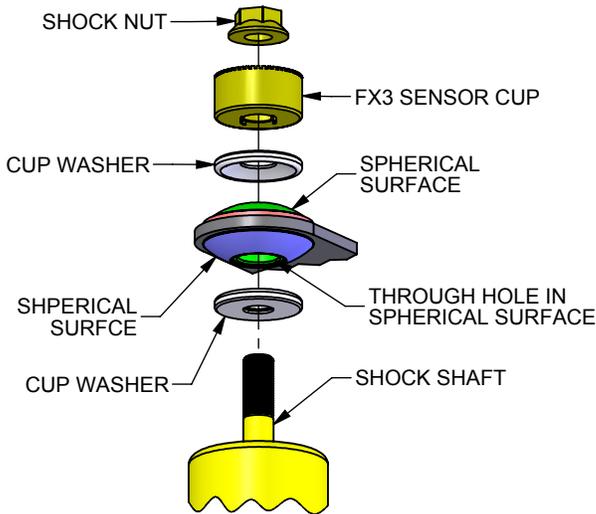
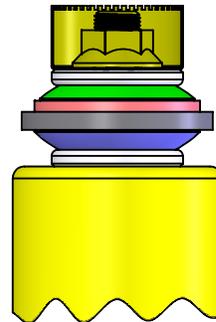


FIG 7

(colors used to distinguish parts only)

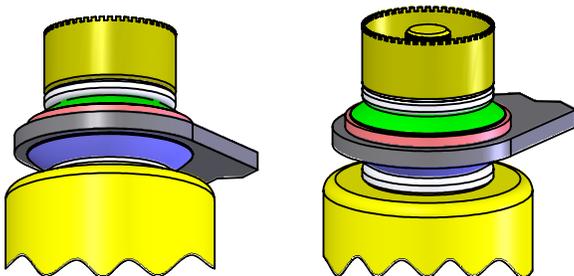
ADJUST SUCH THAT THERE IS FREE ROTATION ABOUT THE SPHERICAL SURFACE



ADJUST SUCH THAT THERE IS MINIMAL CLEARANCE IN THIS DIRECTION

FIG 6

(colors used to distinguish parts only)



C4 Pin Top Shock Mount Installation for FX3 equipped suspensions

Document #: C4FX3PTSM-1, sheet 3 of 3

REAR SHOCK INSTALLATION: Use the procedures outlined in your GM service manual to disassemble your rear shock absorber from the suspension and remove the OE upper shock bushings. *Make sure to retain the bolts that attached the upper mounting plate to the frame as you will be reusing them later.*

Installing the mounts on the rear shocks will be much like the front, except instead of assembling the parts to the mounting flange on the frame they will be assembled to the "eyeball plate" provided in the kit. You will need to check if the mushroom stem protrudes beyond the spherical surface, as you did in the front and shim if necessary (see FIGs 3 & 4).

Once assembled, including the FX3 sensor cup, as shown in FIGs 8 & 9, you are ready to do the setup of the shock mount. Overall, the goal is to get the nut on the shock shaft tight enough so there is little or no play in the direction of the axis of the shock, but not so tight as to restrict the motion of the shock shaft and cup washers (see FIG 7). Because the nut will not be torqued you will need to secure the nut in another way. This can be accomplished by using a Nylock style nut, a bit of thread locker on the shock shaft or adding a jam nut.

Once you have installed the nut on the shock shaft and secured it with one of the methods above try to move the shock in the direction of the shaft. Check to see if there is any play and if so, adjust the nut accordingly. You should then be able to spin the shock freely around the spherical surface with little to no resistance.

Lift the shock and eyeball plate assembly up towards the OE mounting point of the frame. The new eyeball plate uses the same mounting points as the OE shock mount. Reinstall the OE hardware and torque as specified in your GM service manual (see FIGs 10 & 11).

Reconnect the bottom of the shock as outlined in your GM service manual. Repeat for the other rear shock.

Once installation of all 4 shocks is complete drive the car for 1 to 2 miles and check to make sure the nuts on the shock shaft are still the way you set them. If they have loosened you will need to adjust your locking technique. ***IT IS RECOMMENDED TO OCCASIONALLY CHECK THE SHOCK SHAFT NUTS TO MAKE SURE THEY HAVE NOT LOOSENED OR MOVED.***

FIG 8

(colors used to distinguish parts only)

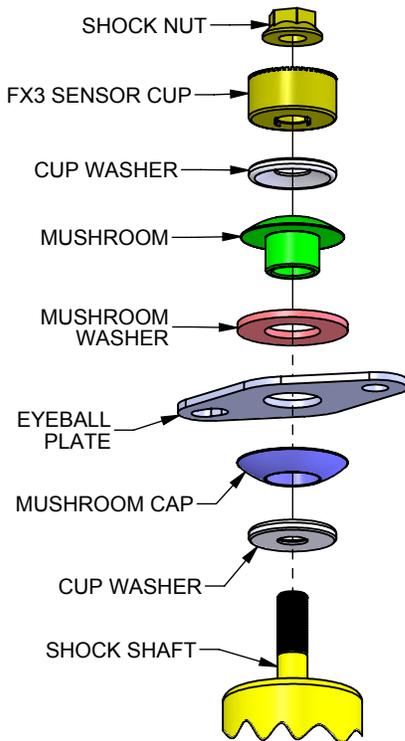


FIG 9

(colors used to distinguish parts only)

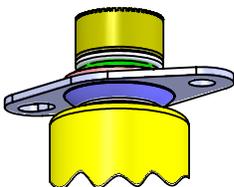


FIG 10

(colors used to distinguish parts only)

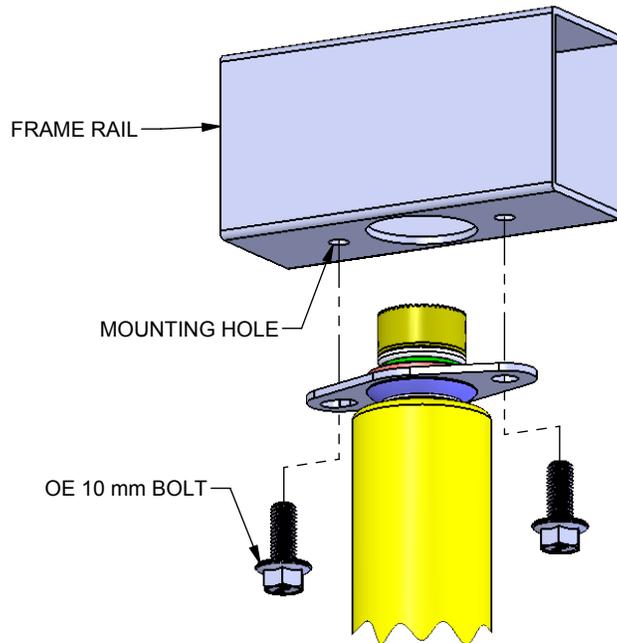


FIG 11

(colors used to distinguish parts only)

