

# ISUZU CHASSIS MODIFICATIONS

## S-4c ONLY

### TOPICS

**Frame Mods.**

**Leaf Springs**

**Timbren**

**Cab Mod.**

### **Frame Mods.**

The back of the chassis must be modified to accept the sweeper body being installed on the chassis. The modification takes place behind the axle and does include the springs.

First the fuel tank must be removed from between the chassis rails. The fuel lines are removed from the tank to the fuel filter. The fuel tank will not be reused since space is at a premium and a different configuration will be installed in the sweeper frame. The fuel gauge and in tank fuel lines are reused.

### **Leaf Springs**

The leaf springs are removed from the chassis and disassembled. There are 5 of the longest springs that are shortened behind the center bolt only. The main leaf spring, the only one with eyes on it, is shortened behind the center bolt as well. Once the springs are reassembled with the new configuration the mount and shackles are moved forward and mounted.



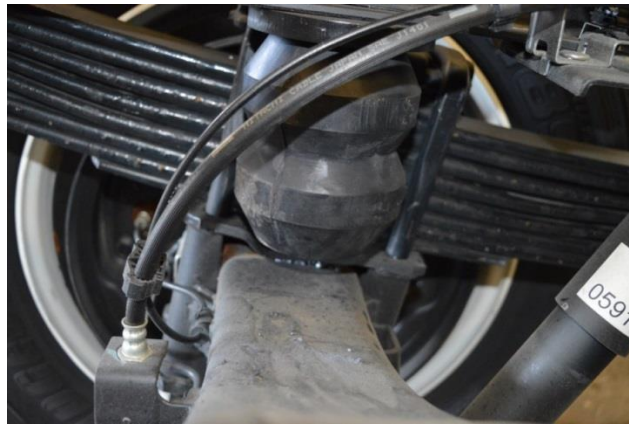
The after frame is cut off at a particular location allowing the sweeper body to be mounted as far forward as possible on the chassis. The reason for this is to get the main broom closer to the chassis axle. When the unit is sweeping around a corner, the main broom will cantilever around the center of the rear axle away from the curb. Everything that is mounted in front of the axle will cantilever into the

curb. When this happens the brooms may not overlap sufficiently and may cause streaking on the inside of a curve. The closer the main broom is to the axle it will greatly reduce this cantilever effect.

Once the frame has been shortened the cross member is reinstalled. A 1/2" plate is welded across the rear frame and the cross member is bolted to the side rails and against the plate.

### **Timbren**

There are frame stop blocks that are installed above the axle that are removed and Timbren suspension blocks installed on the bottom of the frame above the axle.



The battery box is also moved to the driver's side just in front of the rear wheels.



When these modifications have been completed, check all suspension bolts and nuts for tightness. As quick checks take a measurement just in front of the rear axle from the floor to the top of the chassis frame, it should be approximately 32". Check the brake lines as well to make sure they have not been pulled or damaged in any way.

### **Cab Mods. (Without dual steer)**

The electrical control system must be installed in the cab of the chassis. The electrical harnesses for the engine and sweeper control must be run through the floor. After pulling the mat out of the cab drill a 3"

circular hole in the floor to feed the large rotary connectors through. The center of the hole is to be drilled 27" in from the passenger's side outer door jam and 3" away from the vertical wall on the seat side of the cab. Drill through the floor sound suppression mat as well. The other mat will have to be modified once the electrical is run.



The pedestal mount plate is mounted to the vertical wall on the seat side of the cab just above the harness hole. Make sure the plate is straight. Lift the passenger seat to install the post and place the vertical post on the plate and the support under the seat. Re install the seat.

