

# SCISSORS

## TOPICS

**Scissor Safety**

**Scissor Assembly**

**Scissor Pins**

**Scissor Rollers**

**Hydraulic Hoses & Fittings**

## **Scissor Safety**

Before doing any work on the scissor assembly or hopper put the safety supports in place. Under no circumstances use safeties with any load in the hopper. Make sure that safeties are in proper working order at all times.

**Never weld or heat the scissors. Applying any kind of heat to the scissor components can weaken the member that could cause a failure and personal injuries.**



## **Scissor Assembly**

The scissor arrangement is a very strong part of the sweeper. They must lift the entire weight of the load and itself usually in less than ideal conditions at a dump site. All StarFire's use a double lifting scissor design which provides a very stable dumping platform and carries the load at 6 contact points one on each corner of the hopper with 2 more closer to the center of the hopper.

**Whenever dumping the sweeper it must be on level and stable ground**

When lifting the hopper to dump a load, the scissors will start lifting slowly due to the angle of the cylinders. The higher the hopper is lifted the faster it goes and more power because of the cylinders get more vertical push.

## **Scissor Pins**

The pins and bushings used in the scissors are hardened and since there is very little movement between the pins and the bushing they wear very little. The most common problem with the pins is



occasionally the retaining bolt or the snap rings come off and the pins can move. It is wise to check these occasionally to make sure they are being held in place and are not working out of the bore.



### **Scissor Rollers**

The scissors use rollers to move on as the scissors go up and down. These rollers often do not turn without a load on, this is very common. They do need to turn when there is weight on them. This needs to be checked on occasions to prevent the rollers from developing flat spots that will wear their track. If they aren't turning lubricate with penetrating oil or a little diesel fuel.

### **Hydraulic Hoses & Fittings**

It is imperative that the hydraulic lines and fittings are kept in good shape. Repair any leaks immediately, a leak of a hose or fitting could cause a failure and injuries and/or property damage and down time.

