

Triple Link Suspension System

Task Description: **Riding tractor**

Tractor drivers undergo whole body vibrations on the road and on the field.

Comments of the employee:

- 'No comfortable sitting posture'
- 'Vibrations (seat, quality floor, hand/arm machinery...)'
- 'Opportunity to have a break or change activity'

MSD risks:

- Posture
- Duration
- Vibrations (whole body or hand/arm)

Exposed areas:

- Lower back

Solutions:

- John Deere – Triple Link Suspension System
The system connects to the chassis at three points. A panel rod link transfers lateral forces between the suspension and the chassis. A shock absorber provides another link. A spherical joint in the middle of the tractor provides the third link.

A position sensor activates the hydraulics in the shock absorbers to return the cab to its proper level. So when the tractor is traveling, the cab suspension still has its full range of movement, plus or minus 5 cm.

