

# TROUBLESHOOTING GUIDE



## **Drift / Wander**

Tire pressure too low / high / uneven  
Steering linkage loose or worn  
Wheel bearings worn or need adjustment  
Front / Rear end alignment out of spec  
Steering gear worn or needs adjustment  
Loose rear axle assemblies  
Dragging brakes  
Faulty shocks or springs  
Too much play in pitman arm

## **Excessive Heat**

Excessive pump flow  
Vehicle overload  
Hose or line, size  
Restriction in hose or line, kinked, bent or blocked  
Poppet not adjusted properly  
Prolonged stationary vehicle operation

## **Lost Motion (LASH) at steering wheel**

Steering wheel loose  
Check connection between steering gear, intermediate column and steering column  
Loose steering gear (frame)  
Pitman arm loose on output shaft  
Steering gear defective or improperly adjusted

## **No Recovery**

Low tire pressure  
Front end alignment off  
Front axle king pins too tight  
Binding in the steering column  
Insufficient pump flow  
Steering gear issues

## **Substantial Effort Required**

### ***One Direction:***

Unequal tire pressure  
Vehicle overload  
Inadequate hydraulic system pressure  
Excessive internal leakage in gear box  
Adjust valve

### ***Both Directions:***

Low tire pressure  
Vehicle overload  
Low hydraulic fluid level  
Incorrect hydraulic fluid used  
Low pressure or flow from pump  
Restriction in return line  
Return line diameter too small  
Excessive internal leakage  
Oversized tires  
Loose pump drive belt  
Lubrication needed  
Front end alignment off  
Air in hydraulic system

## **External Leakage**

Oil may run away from leak source. Check hoses, fittings, pump, gear, vent plug, etc...

## **Shimmy or Shake**

Worn tires / uneven  
Mounting issue with tire or wheel  
Worn wheel bearing  
Steering linkage loose or worn  
Wheels / Brake Drums out of balance  
Front end alignment off  
Air in hydraulic system