

**K-RIG**

**KNOWLEDGE IS POWER.  
POWER WINS THE RACE.**



**THE RACING  
INDUSTRY'S BEST KEPT SECRET...**

# K-RIG



**Livingston & Haven**  
DRIVING EFFICIENCY

## OPERATION

- **Easy to load and operate**
- **360 deg. access to suspension components**
- Can coordinate all data against shock travel as well as against wheel travel
- Flexible enough to be used with ALL racing classes, including all NASCAR Race Cars and Trucks.

## BENEFITS

- **Seeing things that you have not been able to see before**
- "Off the shelf" best in class components - No black boxes
- More data than you can get at the track testing without the expense

## INFORMATION TO BE GAINED

### SUSPENSION PROBLEMS BEING DISCOVERED USING THE K-RIG

- Mechanical interference in several locations
- Friction Levels
- Early spring coilbind
- Uneven spring coilbind
- Tire to fender interference

### CATEGORIZE SPRINGS

- Identify the true effects of the spring rates in the chassis compared to the spring rater.

### VALIDATE GEOMETRY

- Record camber curve vs. wheel travel and/or shock travel
- Demonstrate effect of component changes on the camber curve
- Bump steer curves can be generated with the springs in the car
- Wheelbase change with wheel travel
- Ackerman test (steer / steer plots)
- Observe axle ride steer and roll steer
- Measure drive line angles against wheel travel
- Obtain the four corner loads under simulated cornering attitudes
- Manual Jog - Adjustable Home Position
- Import directly into Pi Toolbox

### CATEGORIZE SWAY BARS

- Can run through team's library of sway bars and show the true incremental effects on the wheel rates and roll rates.

**IF YOUR TEAM  
ISN'T USING  
THE K-RIG,  
AND YOUR  
COMPETITION  
IS...**

### CONTACT INFORMATION

**Craig Hill – Engineer**  
**Phone:** - 704-588-3670 ext. 7254  
**E-mail:** - rch@lhtech.com  
**Website:** www.LHTech.com

