

# The measurement of an undercarriage

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## Required tools:

- 30cm Steel ruler
- Depth gauge
- Caliper
- Ultrasonic (optional)
- Couplant (if using Ultrasonic)
- Scraper and a rag for cleaning



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## Track links

Measuring with the depth gauge

- measures distance from link surface to track shoe
- before measuring it is required to clean the parts to get an exact result
- the correct position to measure is right on the end and right over the center of the pin



Measuring with the Ultrasonic Wear Indicator

- measures the distance from the link surface to the bushing bore
- place the sensor right under the pin and slide it on the link surface and use the smallest value in your reports

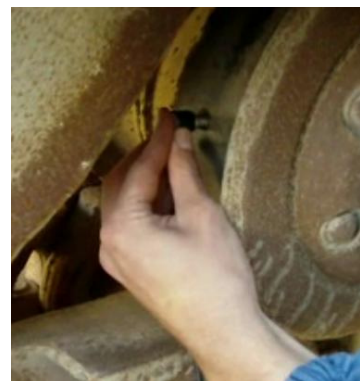
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## Bushings

- before measuring it is required to clean the parts to get an exact result

Ultrasonic Wear Indicator Method

- Look for the most worn spot on the bushing and place the sensor on it



Caliper Method

- The calliper is used to get the diameter of a bushing
  - Never use the Caliper too tight or in a wrong angle.
  - Always use the Caliper on clean surfaces and on the most worn position
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## Track Shoes

- before measuring it is required to clean the parts to get an exact result

### 1. Depth gauge Method

To get the height of the grouser place the Depth gauge 1/3 of the way in from the outside of the shoe

### 2. Ultrasonic Wear Indicator

To get the distance from the tip of the grouser to the bottom of the shoe place the sensor 1/3 of the way in from the outside of the shoe



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## Idlers

before measuring it is required to clean the parts to get an exact result

### Depth gauge

To measure the wear on the tread surface place the Depth gauge on the idler and take the distances from each pin and calculate the average.



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## Carrier Rollers / Track Rollers

- before measuring it is required to clean the parts to get an exact result

### Caliper Method

Position the Caliper on the most worn spot on the surface of the roller and slide him back and forward to get the min. diameter.



### Ultra Sonic Method

Position the sensor of the Ultra Sonic on the most worn spot of the roller to get the distance from worn surface to the inside diameter