

# LOADER BOOM MEASUREMENTS GUIDE

H&R Construction Equipment Parts | hrparts.com | 800-333-0650

## Instructions:

To measure your boom for a replacement you will only need a measuring tape. Mark your measurements on this document. If in doubt, call an H&R Parts Specialist for assistance and help locating your boom.  
**For best and most accurate results, measure pin hole diameter in millimeters.**

## Measurements

### Bucket Connection Pin Hole | PH1

Measure the diameter of one of the pin holes in a pin ear that is used to connect the bucket to the boom.

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### Bellcrank / Tilt Cylinder Connection Pin Hole Diameter | PH2

Measure the diameter of one of the pin holes in a pin ear on the top of the boom that is used to connect the bellcrank (single tilt cylinder design) or one of the tilt cylinders (dual tilt cylinder design) to the boom.

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### Lift Cylinder Connection Pin Hole Diameter | PH3

Measure the diameter of one of the pin holes that is used to connect the boom lift cylinder to the side of the boom.

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### Machine Connection Pin Hole Diameter | PH4

Measure the diameter of one of the pin holes that is used to connect the base of the boom to the loader.

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### Bucket Connection Pin Hole to Lift Cylinder Connection Pin Hole Distance | A

Measure the distance from the center of one of the bucket connection pin holes to the center of one of the boom lift cylinder connection pin holes.

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### Lift Cylinder Connection Pin Hole to Machine Connection Pin Hole Distance | B

Measure the distance from the center of one of the boom lift cylinder connection pin holes to the center of one of the machine connection pin holes.

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Measurements Continue >>>

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## Measurements

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### Boom Arms Width, Center to Center | **WBA**

Measure the distance from the center of one boom arm to the center of the other boom arm at two points directly across from each other.

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### Boom Arms Inside Width (Bucket Side) | **IWA1**

Determine the inside distance of the boom arms where they connect to the bucket by measuring from the inside of one boom arm to the inside of the opposite arm on the end of the boom that would connect to the bucket.

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### Bellcrank / Tilt Cylinder Connection Pin Ears Inside Width | **IWPE**

Measure the inside width of the pin ears on the top of the boom that are used to connect the bellcrank (single tilt cylinder design) or one of the tilt cylinders (dual tilt cylinder design) to the boom.

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### Boom Arms Inside Width (Machine Side) | **IWA2**

Determine the inside distance of the boom arms where they connect to the machine by measuring from the inside of one boom arm to the inside of the opposite arm on the end of the boom that would connect to the machine.

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Continue to Diagrams 

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## Loader Boom [Side]

Bucket Connection Pin Hole Diameter | **PH1**

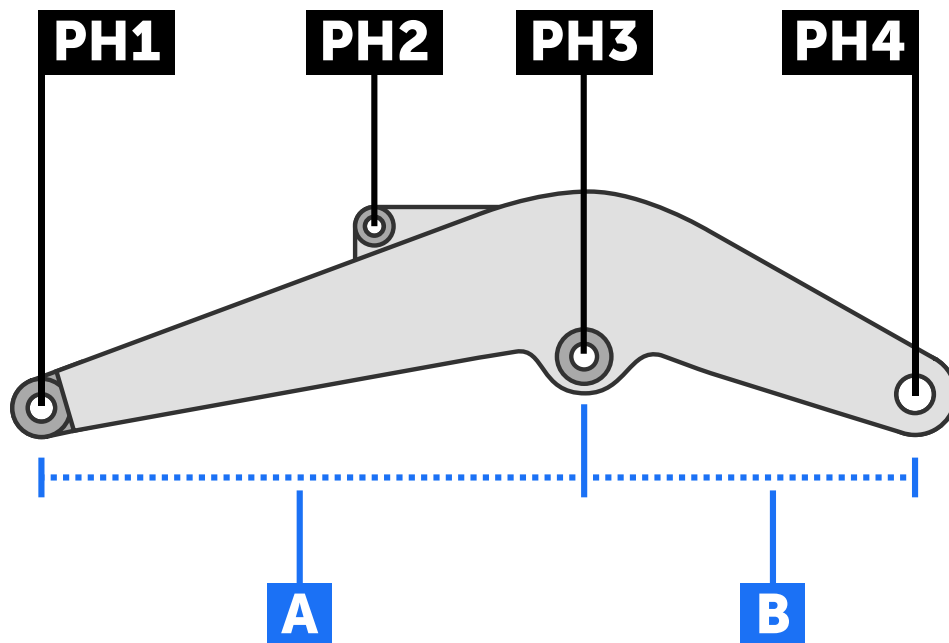
Bellcrank / Tilt Cylinder Connection Pin Hole Diameter | **PH2**

Boom Lift Cylinder Connection Pin Hole Diameter | **PH3**

Machine Connection Pin Hole Diameter | **PH4**

Bucket Connection Pin Hole to Lift Cylinder Connection Pin Hole Distance | **A**

Lift Cylinder Connection Pin Hole to Machine Connection Pin Hole Distance | **B**



Diagrams Continue 

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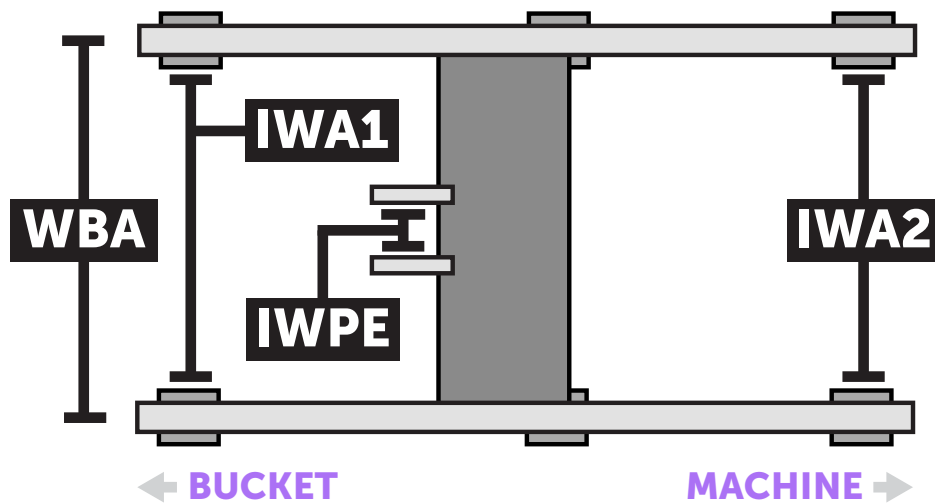
## Loader Boom [Single Tilt Cylinder / Top]

Boom Arms Width, Center to Center | **WBA**

Boom Arms Inside Width (Bucket Side) | **IWA1**

Bellcrank Connection Pin Ears Inside Width | **IWPE**

Boom Arms Inside Width (Machine Side) | **IWA2**



Diagrams Continue >>>

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## Loader Boom [Dual Tilt Cylinder / Top]

Boom Arms Width, Center to Center | **WBA**

Boom Arms Inside Width (Bucket Side) | **IWA1**

Tilt Cylinder Connection Pin Ears Inside Width | **IWPE**

Boom Arms Inside Width (Machine Side) | **IWA2**

