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# Limit Distance Constraint

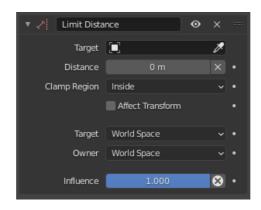
The *Limit Distance* constraint forces its owner to stay either further from, nearer to, or exactly at a given distance from its target. In other words, the owner's location is constrained either outside, inside, or at the surface of a sphere centered on its target.

When you specify a (new) target, the Distance value is automatically set to correspond to the distance between the owner and this target.

#### Important

Note that if you use such a constraint on a *connected* bone, it will have no effect, as it is the parent's tip which controls the position of your owner bone's root.

## **Options**



Limit Distance panel.

#### **Target**

Data ID used to select the constraint's target, and is not functional (red state) when it has none. See common constraint properties for more information.

### Distance

This number field sets the limit distance, i.e. the radius of the constraining sphere.

## X (Reset Distance)

Resets the *Distance* value, so that it corresponds to the actual distance between the owner and its target (i.e. the distance before this constraint is applied).

## **Clamp Region**

Defines how the owner is constrained relative to the spherical boundary, determined by the Distance setting and the target's origin:

#### Inside:

Restricts the owner to remain within the sphere.

## Outside:

Prevents the owner from entering the sphere.

#### On Surface:

Constrains the owner to the sphere's radius.

#### **Affect Transform**

Transform operators will take the constraint into account to immediately restrict the resulting transform property values.

#### Target/Owner

Standard conversion between spaces. See common constraint properties for more information.

#### **Influence**

Controls the percentage of affect the constraint has on the object. See common constraint properties for more information.

Example			

Evaluating both owner and target in a Custom Space using the root bone or any other suitable parent bone will automatically scale the effective distance

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with the relevant part of the rig.

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No Limit Location Constra