

TR-MAN-6010-UG03

**Upgrade - Hose Caddy Tongue Pin** 

20-JUL-2011 by Ivon LeBlanc

## **Hose Caddy Tongue Pin**

This instruction sheet will assist in the Cadman 6010 Hose Caddy tongue pin upgrade.



ONLY perform this upgrade or any other maintenance when the machine is shut down and is in a non-loaded condition. This means that no fluid is being pumped through the motor and all mechanical and hydraulic tension has been released from the hose rewind system.

#### **Kit Contents**

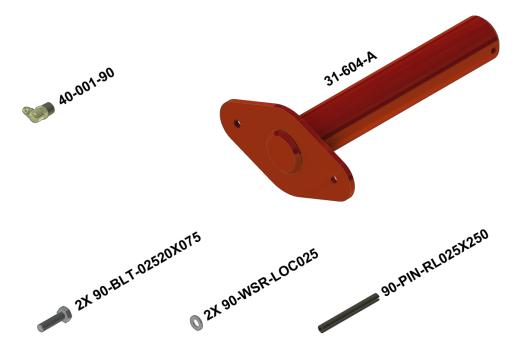


Figure 1 - Kit Contents

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Before starting this upgrade ensure that you have a complete set of required parts.



# **Tools Required**

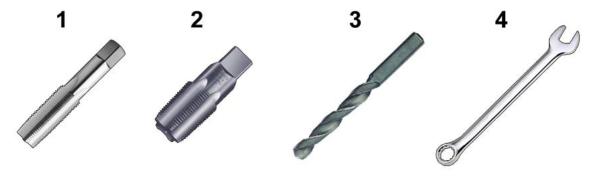


Figure 2 - Tools required

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- 1. 1/4"-20UNC Tap
- 2. 1/8"-27 NPT Tap
- 3. No. 7 & 11/32" Drill Bit
- 4. 7/16" Wrench

### Complete the following instructions to upgrade your machine.

### Step 1

Relieve tension on the current tongue pin buy raising the front of the machine. Support the frame using appropriate supporting devices (i.e. jack stands).

## Step 2

Remove the tongue brace pin and swing the brace and secure out of the way.

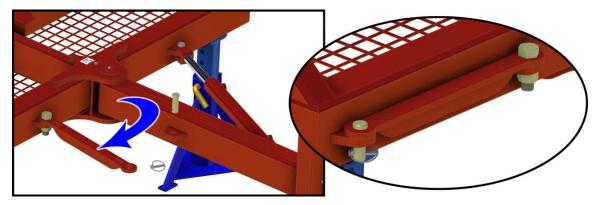


Figure 3 - Remove Tongue Brace

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### Step 3

Remove the cylinder pin located on the frame and swing the cylinder away. Secure the cylinder to the tongue to prevent injuries.

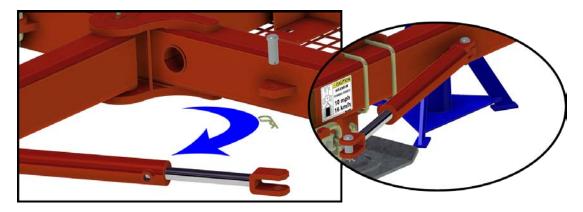


Figure 4 - Remove Cylinder

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#### Step 4

Swing the tongue to the right (towards motor side). Properly support the tongue using appropriate supporting devices (i.e. jack stands).



Failure to properly support the tongue may result in serious injury to you and/or spectators.

## Step 5

Remove the bolt fastening the tongue pin. Then remove the pin. This may require significant force if the tension has not been relieved.

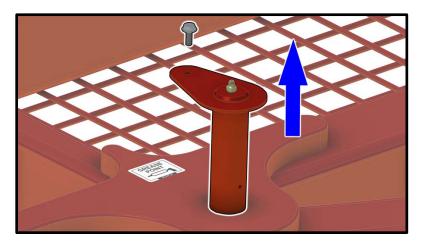


Figure 5 - Remove Tongue Pin

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## Step 6

Using your 11/32" drill bit, drill a hole midway down the tongue pivot tube. Then use your 1/8"-27 NPT tapping tool. Ensure that all metal shavings are thoroughly removed. Install the provided 90 degree grease fitting.

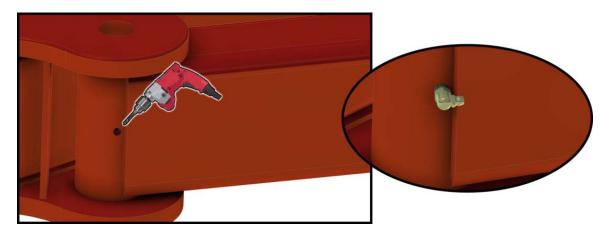


Figure 6 - Drill Tongue Pivot

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#### Step 7

Drill two (2) holes as shown below using a No. 7 (or 13/64") drill bit. Then use a 1/4"-20UNC tapping tool. Ensure that all metal shavings are thoroughly removed. Use provided template.

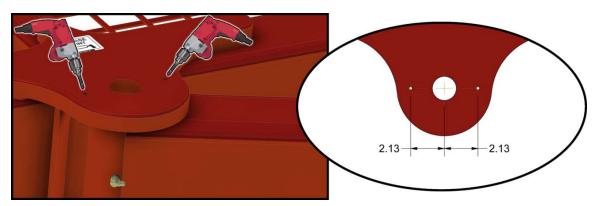


Figure 7 - Drill and Tap Holes

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## Step 8

Install the tongue pin using the provided fasteners. Install the roll pin at the base once the pin has been installed. Using a grease gun lubricate the tongue pin.

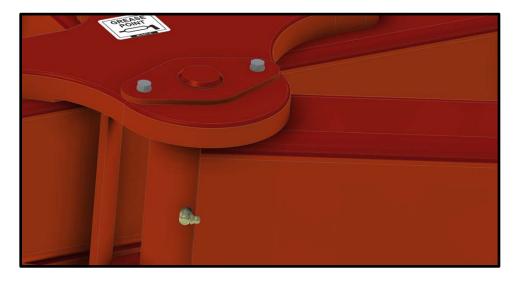


Figure 8 - Install Pin and Fasteners

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## Step 9

Reconnect the cylinder pin to frame. Also reconnect the tongue brace.

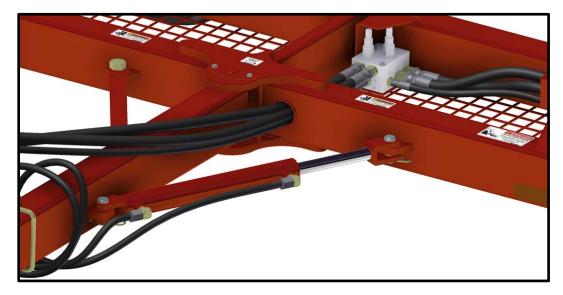


Figure 9 - Upgrade Complete

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Congratulations you have successfully completed the Tongue Pin upgrade.

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# **Upgrade - Hose Caddy Tongue Pin**



## **Useful Information**

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1 FOOT	= 12 = 0.3048	Inches Meter	1 METER	= 39.37 = 3.2808	Inches Feet
1 ROD	= 198 = 16.5 = 5.5 = 5.03	Inches Feet Yards Meters	1 MILE	= 5280 = 1760 = 320 = 1609	Feet Yards Rods Meters

#### **AREA**

<b>-</b> / \		
1 SQUARE FOOT	= 144 = 0.0929	Square Inches Square Meters
1 SQUARE YARD	= 1296 = 0.8361	Square Inches Square Meters
1 SQUARE METER	= 1550 = 10.764	Square Inches Square Feet
1 ACRE	= 43560 = 4047 = 0.4047	Square Feet Square Meters Hectare
1 HECTARE	= 107639 = 10000 = 2.47105	Square Feet Square Meters Acres
1 SQUARE MILE	= 640 = 259	Acres Hectares

#### **VOLUME**

1 GALLON (US)	= 0.8327 = 231 = 0.1337 = 8.345	Imperial Gallons Cubic Inches Cubic Feet Pounds
1 CUBIC FOOT	= 1728 = 7.48 = 62.4 = 28.32	Cubic Inches Gallons ( US ) Pounds Liters
1 ACRE INCH	= 27154 = 254	Gallons ( US ) Cubic Meters / Hectare

**AREA OF A CIRCLE** = Diameter x Diameter x 0.7854

**CYLINDER VOLUME (US GAL.)** = Diameter (ft.) x Diameter (ft.) x Length (ft.) x 5.8748

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