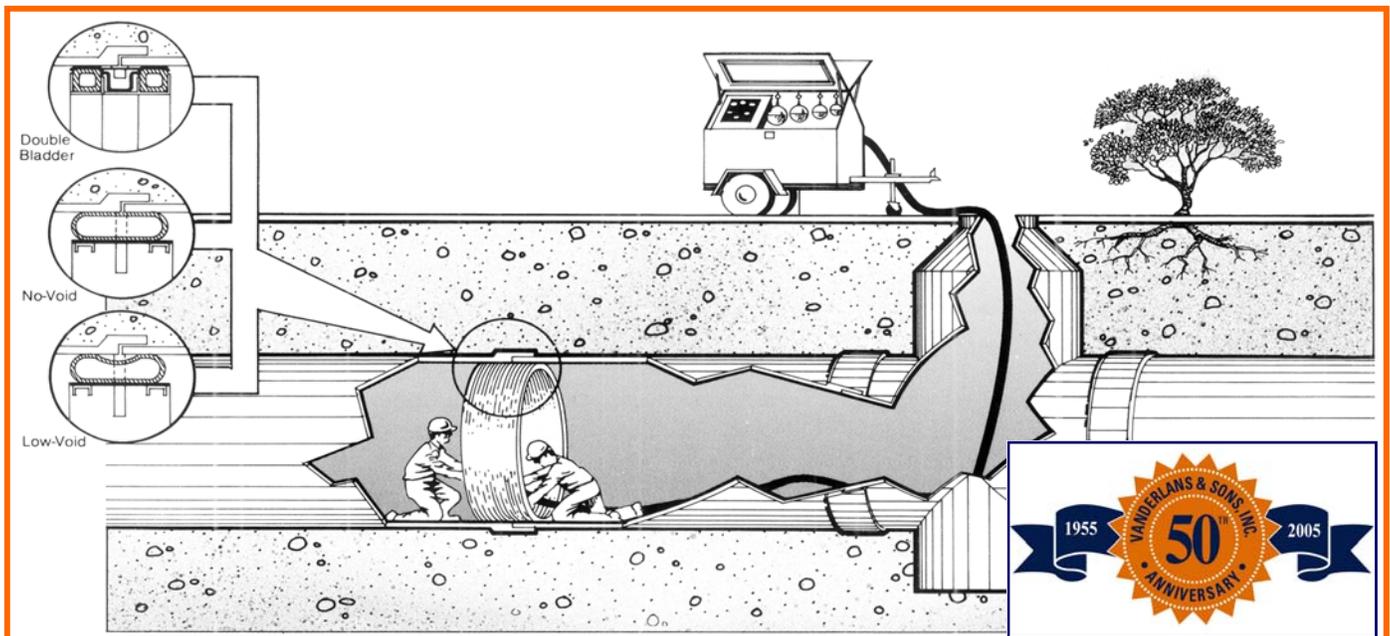


# LANSAS Products

## LANAS JOINT TESTING EQUIPMENT

OPERATING AND MAINTENANCE INSTRUCTIONS FOR JOINT TEST UNITS TO BE OPERATED UTILIZING EITHER AN AIR COMPRESSOR OR WATER SOURCE. (AN AIR OR WATER TEST OF THE JOINT)



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**PH: (800)452-4902**  
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**lansas® PRODUCTS**  
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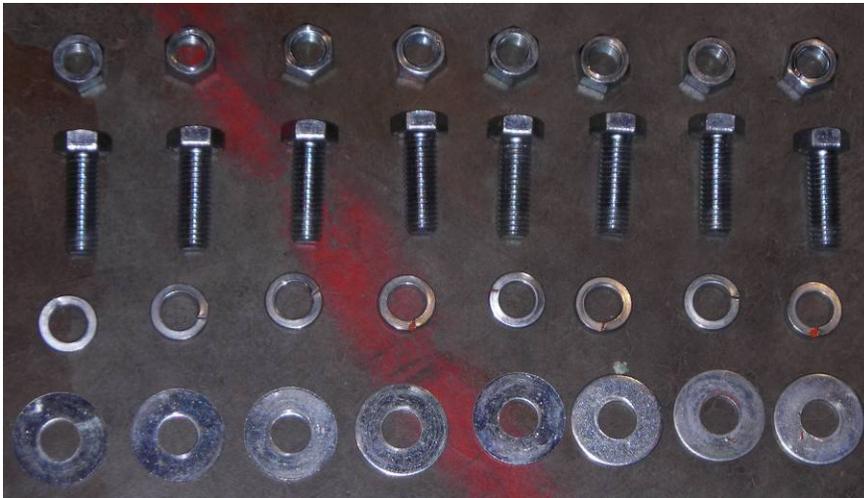
Rev: 12/2006

## Lansas Joint Tester Assembly and Operation Instructions

Joint Tester Parts:



2 - Joint Tester Frame Assemblies (Above)



8 - 1/2" Nut

8 - 1/2" Lock Washer

8 - 1 3/4" x 1/2" Bolt

8 - 1/2" Flat Washer

All Pictured Above

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**JT Bladder (Above)**



**1 – Green Void Inflation Assembly**  
**1 – Yellow Void Release Assembly**

**1 – Red Bladder inflation Assembly**

**Wheel Assembly Parts:**



**6 Each      3/4" x 8" All Thread**  
**6 Each      3/4" Wing Nut**

**6 Each      3/4" Bolt**  
**6 Each      3/4" Washers**

All Pictured above

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3 Each **Wheel Assemblies (Above)**



- 1 - **Joint Tester Panel**
- 2 - **Panel to Joint tester hoses**
- 1 - **Water test conversion quick disconnect**

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## Step 1

Line up the bolt pattern of each half moon frame assembly as show in picture 1A. Bolt the frame assemblies together with 8 each - 1-3/4" x 1/2" bolts, 1/2" flat washer, 1/2" lock washer, and 1/2" nut as shown in picture 1B.



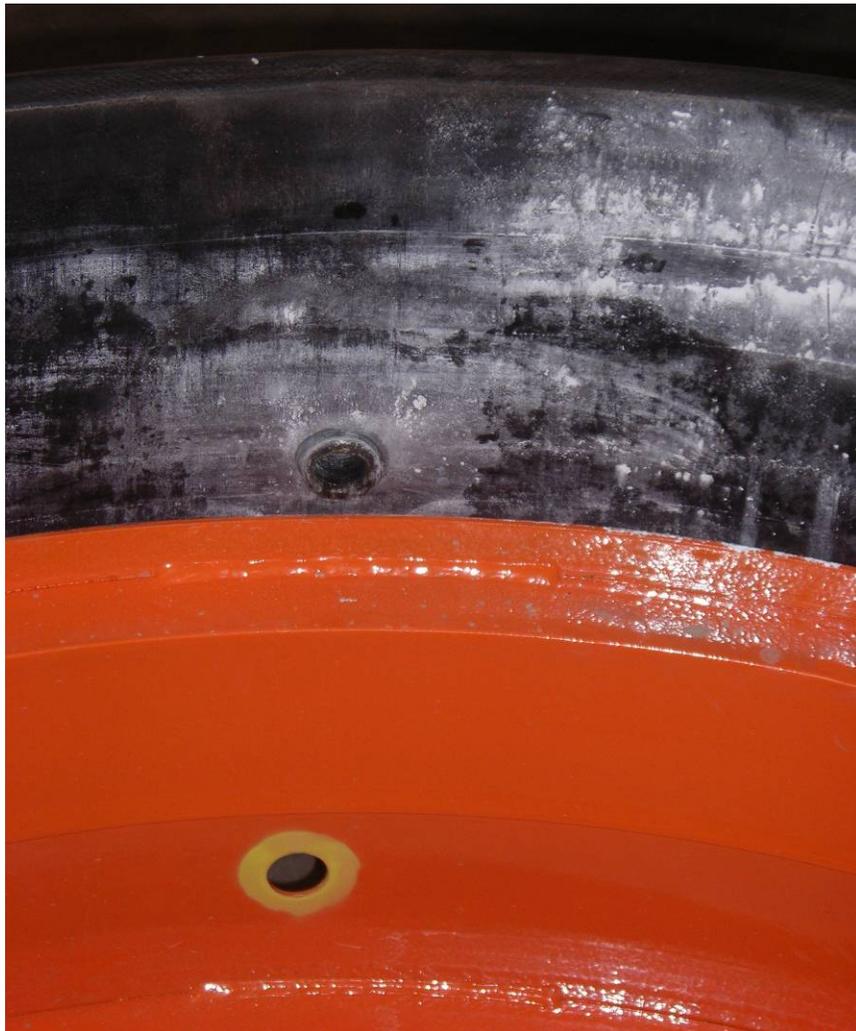
Picture 1A



Picture 1B

## Step 2 Install Bladder

The Lansas bladder will have three holes in the inside of the bladder with one hole on one side of the bladder and two holes on the opposite side. With the can assembly on the floor line the side of the bladder that has one hole with the top of the frame assembly that will have one hole through the can assembly. (See picture 2A). The other two holes will line up with the red and green holes on the frame assembly. (See picture 2 B) Put some baby powder on the bladder and frame assembly to help the bladder slide onto the frame. (See Picture 2C) Start working the bladder onto the frame assembly by pushing down on the bladder and working all the way around the frame assembly. (See Picture 2D). Once the entire bladder is on the frame assembly you can move onto the next step.



Picture 2A



Picture 2B



Picture 2C

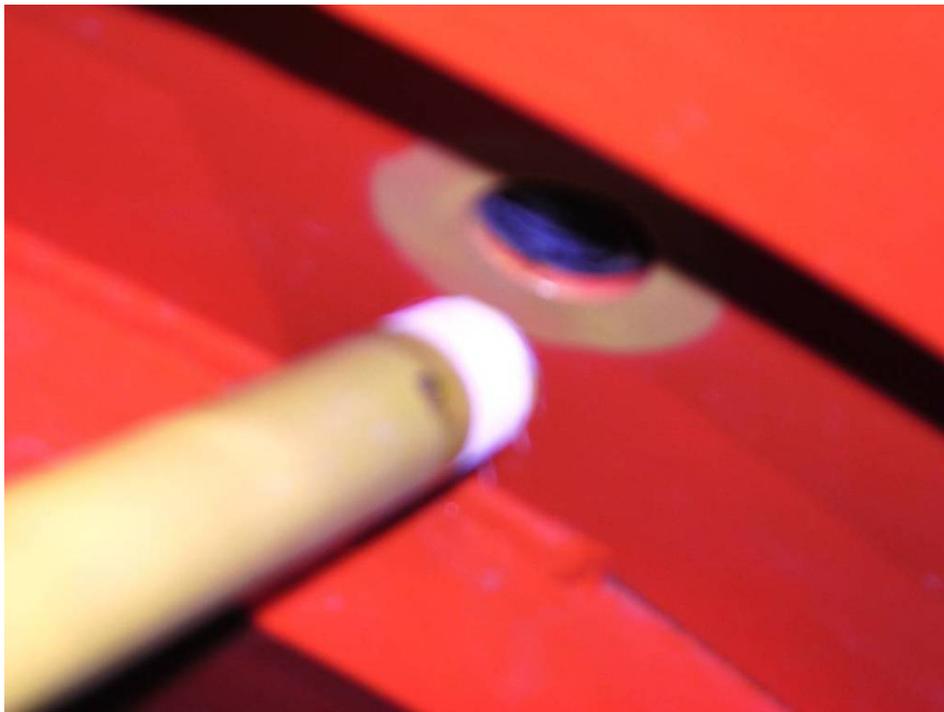


Picture 2D

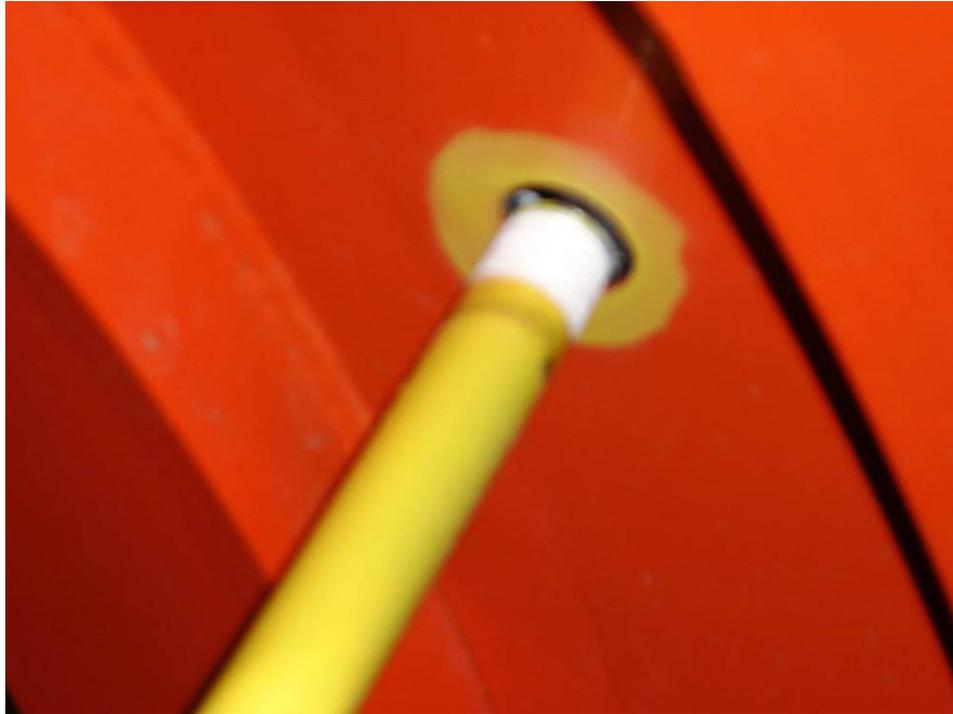
### **Step 3** Install Red, Green and Yellow Assemblies

Wrap each nipple with 5 to 6 layers of Teflon tape. Thread the yellow void release assembly through the frame (Yellow Hole) assembly into the bulkhead on the bladder. (See pictures 3A and 3B) Repeat the same procedure for both the red and green assemblies making sure to match up the color on the frame assembly.

***VERY IMPORTANT: Aluminum threads tighten carefully.***



Picture 3A



Picture 3B

#### **Step 4** Wheel Assembly Installation

Stand the Joint tester up on edge. The JT frame assembly has 6 each  $\frac{3}{4}$ " bulk heads as shown in picture 4A. Position the frame assembly so these bulkheads are on the bottom of the JT. Insert the all thread with one  $\frac{3}{4}$ " bolt into the bulkheads as shown in pictures 4B and 4C. Insert the wheel assemblies over the all thread so the wheel is towards the ground as shown in picture 4D. The middle wheel assembly will be on one side of the JT and the other two wheel assemblies should be on the opposite side of the JT as shown in picture 4E. Use the 6 -  $\frac{3}{4}$ " washers and the 6 -  $\frac{3}{4}$ " wing nut bolts to secure the wheel assemblies.



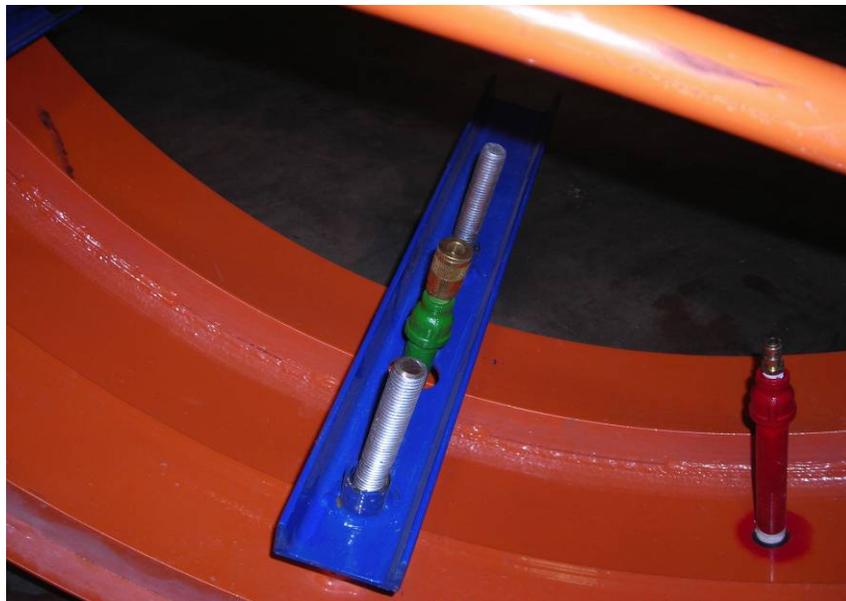
Picture 4A



Picture 4B



Picture 4C



Picture 4D



Picture 4E



Assembled Joint Tester

Vanderlans and Sons  
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Lodi, CA. 95240

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# High or Low Pressure Joint Tester Pre-Test Set Up – Air Test

Once the joint tester is assembled, roll it into the barrel of the pipe.

## Connect Joint Tester Panel to Joint Tester

1. Hook up the joint tester panel to the joint tester by attaching the panel to JT hoses.
2. Each hose has a male QD on one end and a female QD on the other.
3. Attach the male end of one hose to the green void inflation assembly on the joint tester which has a female QD.
4. Attached the female end to the back side of the JT panel to the male QD.
5. The female end of the second hose will be attached to the red bladder inflation assembly by connecting to the male QD.
6. Attach the opposite end (male QD) of this hose to the back of the joint tester panel the female hose.



**Danger!**

Do not attach the air to the panel at this time.

## Preparing Joint Tester Panel

1. Open up the joint tester panel and close both valves by turning them to the close position.
2. Close both the test pressure and the bladder regulators by turning them counter clockwise.
3. Connect your air source to the air inlet on the joint tester panel.

## Pressuring the Joint Tester Bladders

1. Open the bladder pressure valve by turning it to the valve open position.
2. Unlock the bladder regulator by carefully pulling out the plastic turning knob on the regulator.
3. Inflate the joint tester bladders by opening up bladder regulator which is done by turning it slowly clockwise. You will be able to see the bladder inflation pressure increase by watching the bladder pressure gauge on the right side of the JT panel.
4. When the bladder pressure gauges reaches 60 psi, (160 for high pressure joint testers only) stop opening the regulator and allow the pressure to stabilize. Adjust the regulator if needed. After adjusting “lock out” the regulator by pressing down on the knob.



## **Danger!**

Do not exceed maximum bladder pressure!

### **Pressurize the Joint Tester Void**

1. Open the test area valve.
2. Slowly begin opening the test area regulator. The test area will begin to pressurize. Allow the pressure to reach the required test pressure. Do not exceed the maximum test pressure of 20 psi. (100 psi for high pressure joint testers). Once stabilized adjust the regulator and “lock out” the regulator.



## **Danger!**

Do not exceed the maximum test pressure of 20 PSI (100 PSI for high pressure joint testers)

3. The test specifications are not set by Lansas and you should contact your local inspector or the pipe manufacture for this information.

### **Test Completed**

1. Exhaust all test pressure by turning the test area valve on the left side of the panel to the exhaust position.
2. After all the test area pressure has been exhausted, exhaust the bladder pressure by turning the bladder pressure valve on the right side of the panel to the exhaust position.
3. Move both the test area and the bladder pressure valves to the close position.
4. Move the joint tester to the next joint.

## Prepare the Joint Tester Panel to Water Test a Joint

On the back side of the panel, follow the hose from the air inlet coupling to the test area regulator. (Right Side)



Picture 5A

You will find a set of quick-disconnects in this line. Separate these quick-connects. (See picture 5A)



Picture 5B

Attached to the back of the panel is a garden-hose fitting with female quick connects. (Picture 5B)



Picture 5C

Attach this to the line that you just disconnected. (Picture 5C) This will feed water directly into the test area regulator.



Picture 5D

Attach your water source to this garden hose connection. (See Picture 5D)

## **To Complete the Water Test**

Centering the joint tester over the joint is easily done by making a line on the pipe 8" from the center of the joint.

Next, line the edge of the test ring up with that line. When centered, "open" the bladder valve.

Once the bladder has inflated, open the test area valve.

When the test area has pressurized, begin your test by closing this valve

When you finish the test, "close" the bladder inflation valve.

Exhaust the test area pressure.

Once all of the pressure has been released from the test area, exhaust the bladder pressure.

When the bladder has deflated, close both valves.

You are ready to move to the next joint.