

ASSEMBLY INSTRUCTION

TITLE: **EWB Sorghum Press Assembly**

REV A

EFFECTIVE DATE: 5/19/12

APPROVED: David H. Cordeiro

Page 1 of 8

APPROVED: David Bothman

Design Engineer

Project Supervisor

1. PURPOSE

To provide instruction and ensure consistent quality in the assembly and installation of the EWB Sorghum Press.

2. REFERENCES

- 2.1. Assembly drawing and BOM: Sorghum_Press_6.slddrw

3. REQUIRED EQUIPMENT

- 3.1. Safety glasses
- 3.2. Two crescent wrenches
- 3.3. Hammer or Rubber Mallet
- 3.4. (6) Rebar stakes appx .25m length 1.5cm dia.
- 3.5. All parts and weldments for Sorghum Press (see BOM)

ASSEMBLY INSTRUCTION

TITLE: **EWB Sorghum Press Assembly**

REV. A

4. ASSEMBLY PROCEDURE

4.1. Install bottom base weldment.

4.1.1. Align frame posts. Secure base to frame with four hex bolts and nuts.

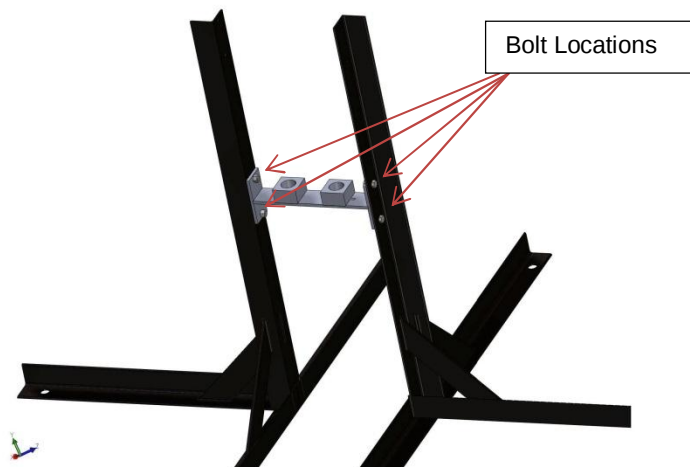


Figure 1 ñ Bottom Base Installed

4.2. Insert two Roller Bushings, then Rollers into base.

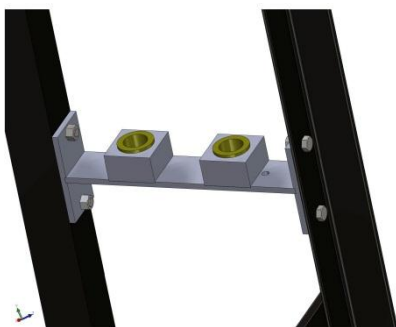


Figure 2 ñ Roller Bushings Installed

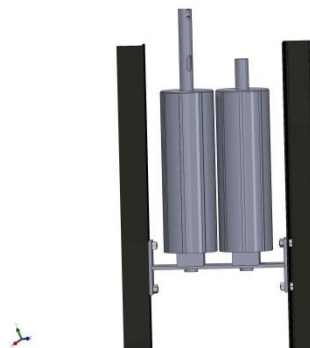


Figure 3 ñ Rollers Installed

ASSEMBLY INSTRUCTION

TITLE: **EWB Sorghum Press Assembly**

REV. A

4.3. Install top Base and top Roller Bushings.

4.3.1. Bushings may be tapped with hammer in order to seat against Base.

4.3.2. Verify Rollers spin freely.

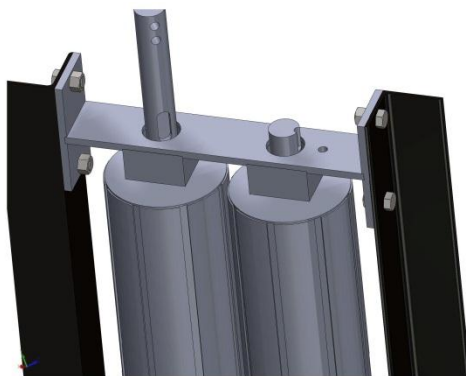


Figure 4 ñ Top Base Installed
With Four Bolts and Nuts

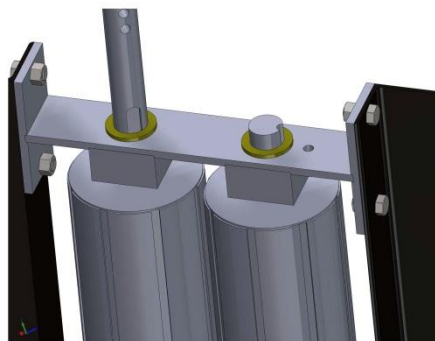


Figure 5 ñ Roller Bushings Installed

4.4. Install Square Key in Drive Shaft. Then slide Drive Gear over assembly.

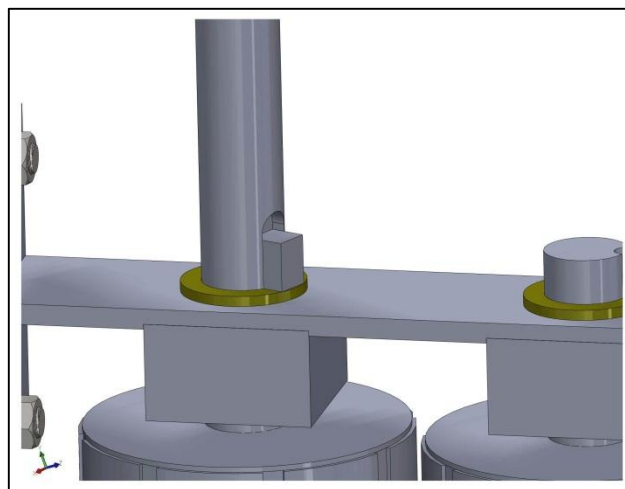


Figure 6 ñ Square Key Seated in Drive Shaft

ASSEMBLY INSTRUCTION

TITLE: **EWB Sorghum Press Assembly**

REV. A

4.5. Install 16 Tooth Gear on small shaft.

- 4.5.1. Clamp Gear in place, then drill holes for Scotch Key and Safety Bolt. Safety Bolt Hole goes through gear and base. Scotch Key hole goes through Gear only.
- 4.5.2. Use Hammer to Tap Scotch Key into place to secure gears. Remove Clamps.

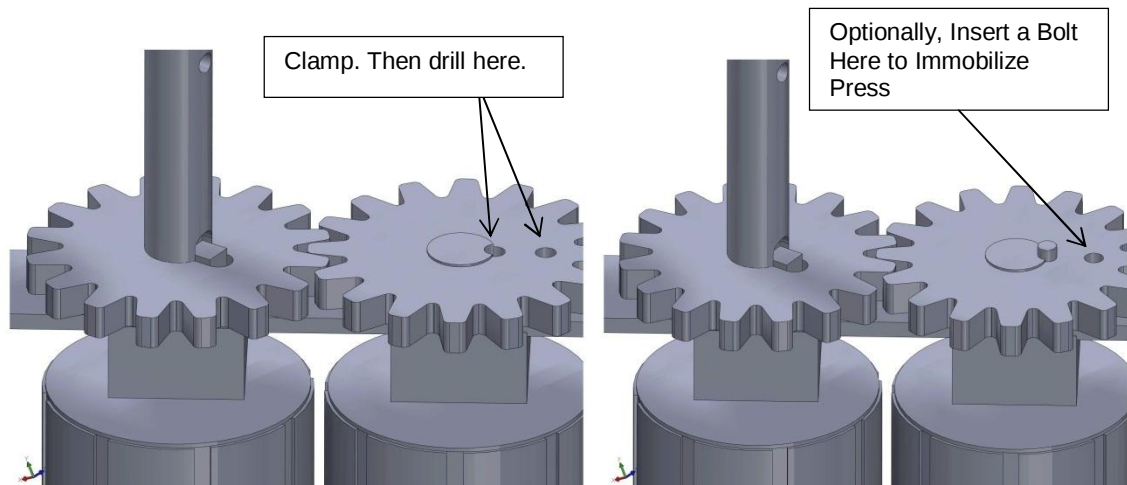


Figure 7 ñ Hole Locations

Figure 8 ñ Gears Fully Installed

ASSEMBLY INSTRUCTION	
TITLE: EWB Sorghum Press Assembly	REV. A

Patient Information	
Full Name	
Date of Birth	
Gender	
Address	
City	
State	
Zip	
Phone	
Referral Source	
Referral Source	
Referral Date	
Referral Physician	
Referral Facility	
Referral Reason	
Patient History	
Chief Complaint	
History of Present Illness	
History of Past Illness	
Family History	
Personal History	
Physical Examination	
General	
Head	
Eyes	
Ears	
Nose	
Throat	
Heart	
Lungs	
Abdomen	
Genitourinary	
Neurological	
Laboratory and Diagnostic Tests	
Tests Ordered	
Test Results	
Treatment Plan	
Medications	
Procedures	
Follow-up	
Physician Information	
Physician Name	
Physician Title	
Physician Address	
Physician City	
Physician State	
Physician Zip	
Physician Phone	
Signature	
Physician Signature	
Physician Stamp	
Notes	
Notes	
Billing Information	
Insurance Company	
Insurance Policy Number	
Insurance Group Number	
Insurance Address	
Insurance City	
Insurance State	
Insurance Zip	
Insurance Phone	
Billing Code	
Billing Code	
Billing Description	
Billing Date	
Billing Facility	
Billing Physician	
Billing Reason	

5

ASSEMBLY INSTRUCTION

TITLE: **EWB Sorghum Press Assembly**

REV. A

- 4.6. Install optional Safety Shroud and Funnel. The Safety Shroud and Funnel can be custom built for each press.

Holes for Inserting Sorghum Stalks and for Waste to Pass Through

Funnel Catches Juice and Spray and Funnels it to be Collected

Safety Guard Protects Gears and Prevents Accidental Injury



Figures 9 & 10 ñ Example Safety Shroud and Funnel Made From Corrugated Roofing

Two-Piece Design Can Be Bolted To Frame



Figure 11 ñ Safety Shroud and Funnel Installed on Press

ASSEMBLY INSTRUCTION

TITLE: **EWB Sorghum Press Assembly**

REV. A

- 4.7. Install Crank Fixture by inserting two Dowel Pins in holes.

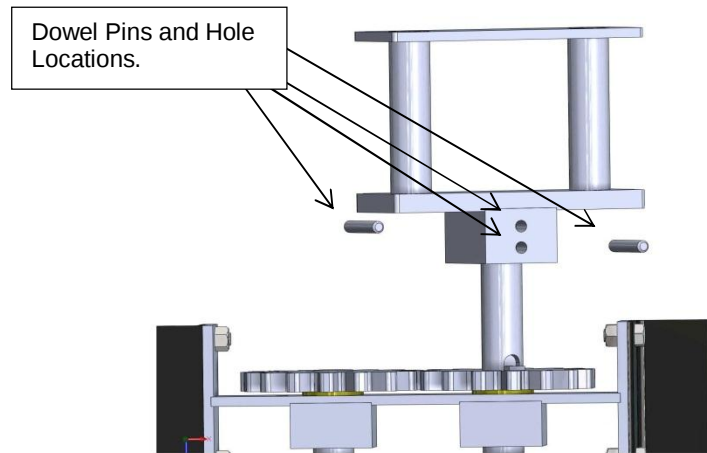


Figure 12 ñ Installation of Crank

- 4.8. Complete assembly and stake in place.

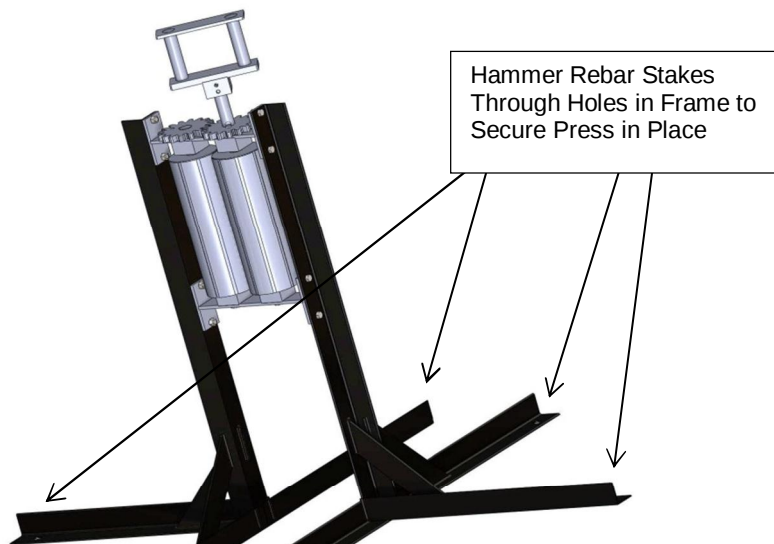


Figure 13 ñ Complete Assembly

ASSEMBLY INSTRUCTION

TITLE: **EWB Sorghum Press Assembly**

REV. A

4.9. To operate press:

Remove Safety Bolt.

Insert a long pole or board through opening in crank.

One user feeds sorghum stalks into rollers while a second user pushes the long pole around the press.

SPECIAL NOTE ON ASSEMBLY:

Through testing, it was later found out that the Base_Weldment is not strong enough. Thus when making the press, please weld on this triangular reinforcement. The plates are very important, else the base plate might break.

