LMC-AG
PH-20
PECAN
HARVESTER

Machine Start up:

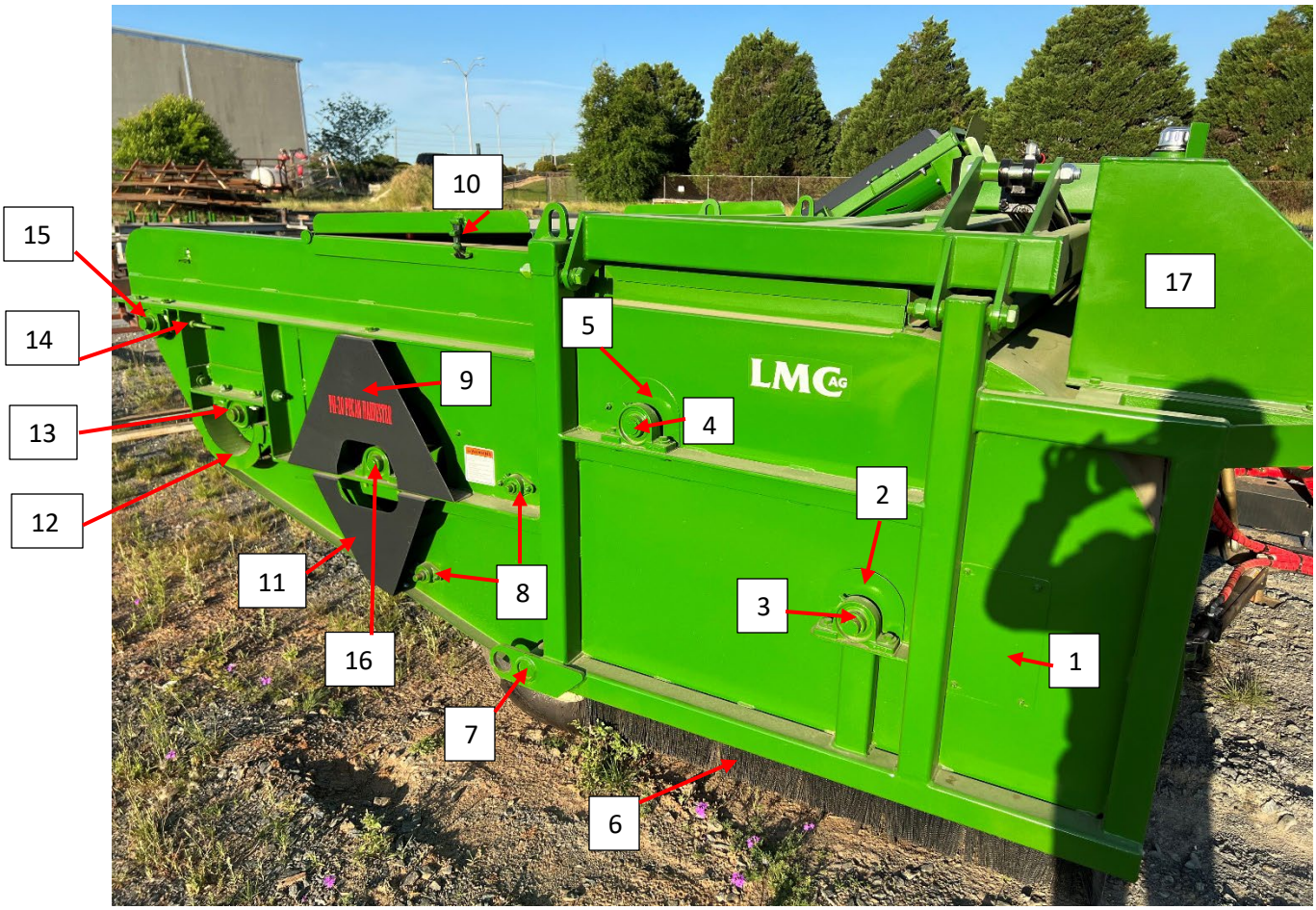
1. **Check over the machine to make sure everything is in place and all components are as they should be.**
2. **Check the oil level in the tank and check that the filters are tight**
3. **Connect the tractor to the harvester by using the pull pin hitch located on the front of the harvester.**
4. **Connect all hydraulic lines to the tractor ports.**
5. **Connect the drive shaft to the PTO of the tractor.**
6. **Make sure both valves on the bottom of the oil tank are in the open position.**
7. **Make sure the harvester hopper is lowered to the vertical auger meaning it is in the harvesting position.**
8. **Make sure that the rear hood is latched down securely.**
9. **Make sure that the vertical auger cover is latched down securely.**
10. **Cycle both remotes on the tractor to make sure the dump cylinder and the drop arm cylinder are functioning correctly.**
11. **Engage the PTO of the tractor at IDLE speed.**
12. **Safely walk around the machine to inspect for any leaks or issues.**
13. **Return to the tractor and bring the machine up to operating RPM for harvesting. (50-75 hp generally run at 1700-2000 rpm. This setting is based on conditions).**
14. **Slowly extend the drop arm cylinder to the height required for optimum harvesting. (Generally, the bottom of the lower tube should be 4-5 inches off the ground).**

Harvesting:

- **During harvesting make sure periodically make sure that the machine is running at the correct height off the ground. Soil conditions can alter the performance of the harvester so various soil conditions require height adjustment during harvest.**
- **Make sure the flow of debris out of the rear of the machine is flowing heavily to insure proper air flow.**
- **Make sure that both pressure gauges are operating at less than 2000 psi. If one or both gauges read 2000 psi there is a problem in that system and you will need to check the drives on that system to ensure everything is freely moving.**
- **There are 3 flow control valves on the harvester 2 at the front of the machine and one at the left rear of the machine. The 2 on the front should be set on 10. The one on the rear can be adjusted to get your cleaning chain set to the right speed for your operation.**

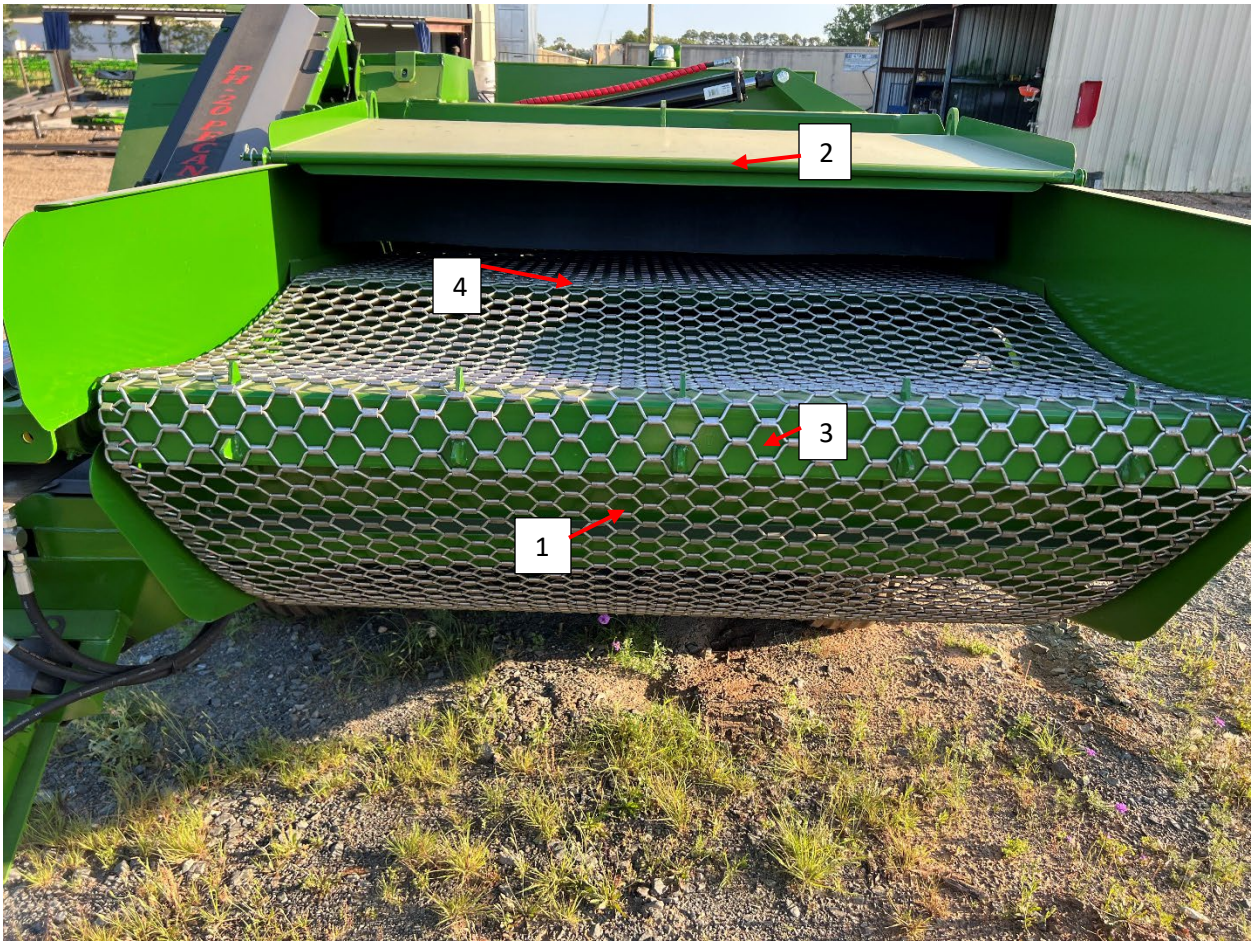
Dumping:

- **Before you dump make sure your machine is close enough as to not spill product on the ground.**
- **Depending on the size trailer you may have to retract the drop arm cylinder to get the dump to maximum height.**
- **During the dump process it may be necessary to shake the hopper to remove all product from the hopper.**

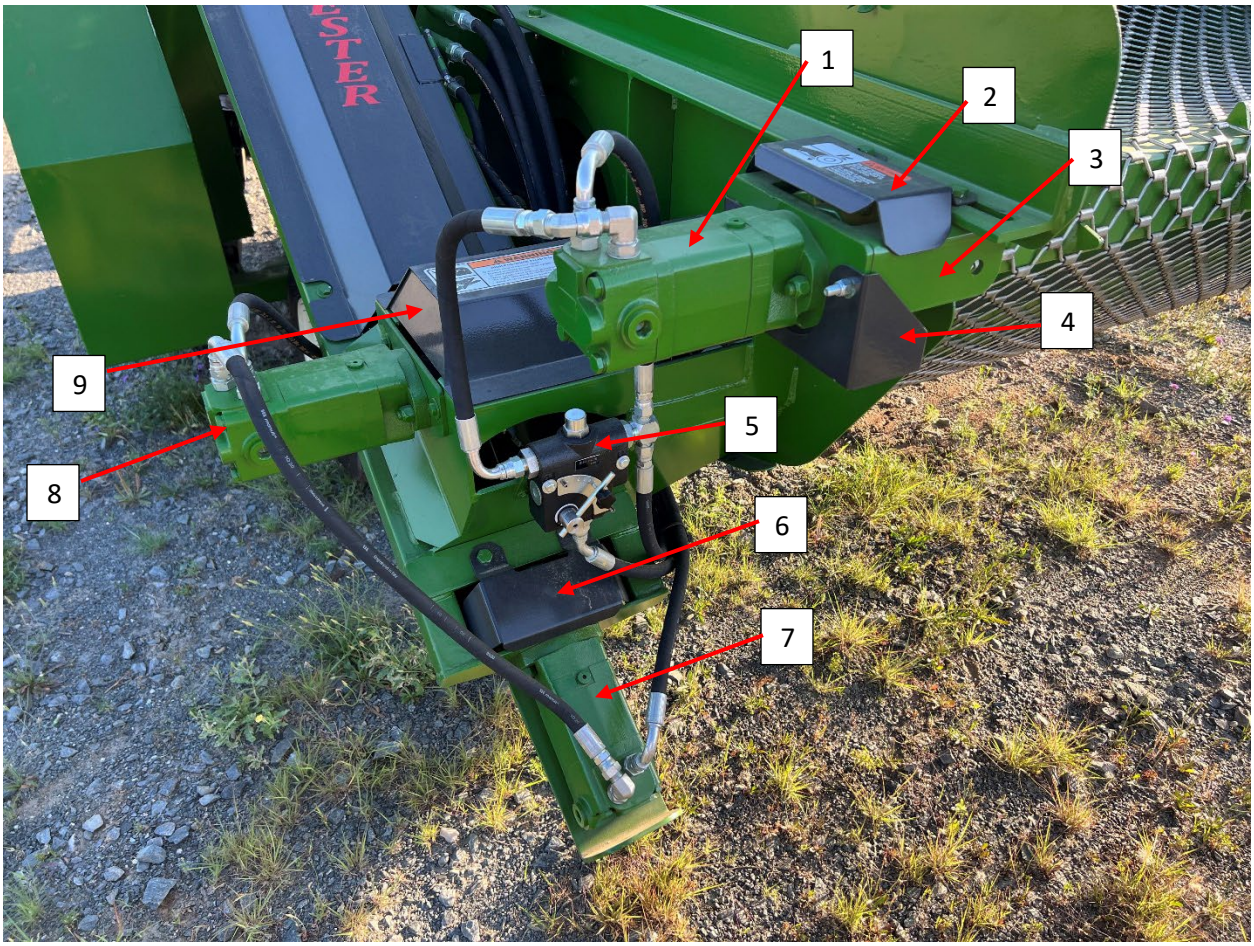


1. Side finger drum cover-
2. Finger drum bearing cover-
3. Finger drum bearing- UCP208-24
4. Conveyor chain bearing-UCP208-24
5. Conveyor chain bearing cover-
6. Finger drum side skirt-
7. Wheel spindle-77-003-02A
8. Idler roller bearing-UCFL204-12
9. Large top fan cover-
10. Rear hood latch-1685A24
11. Small bottom fan cover-
12. Horizontal auger tray-
13. Horizontal auger bearing-UCP208-24

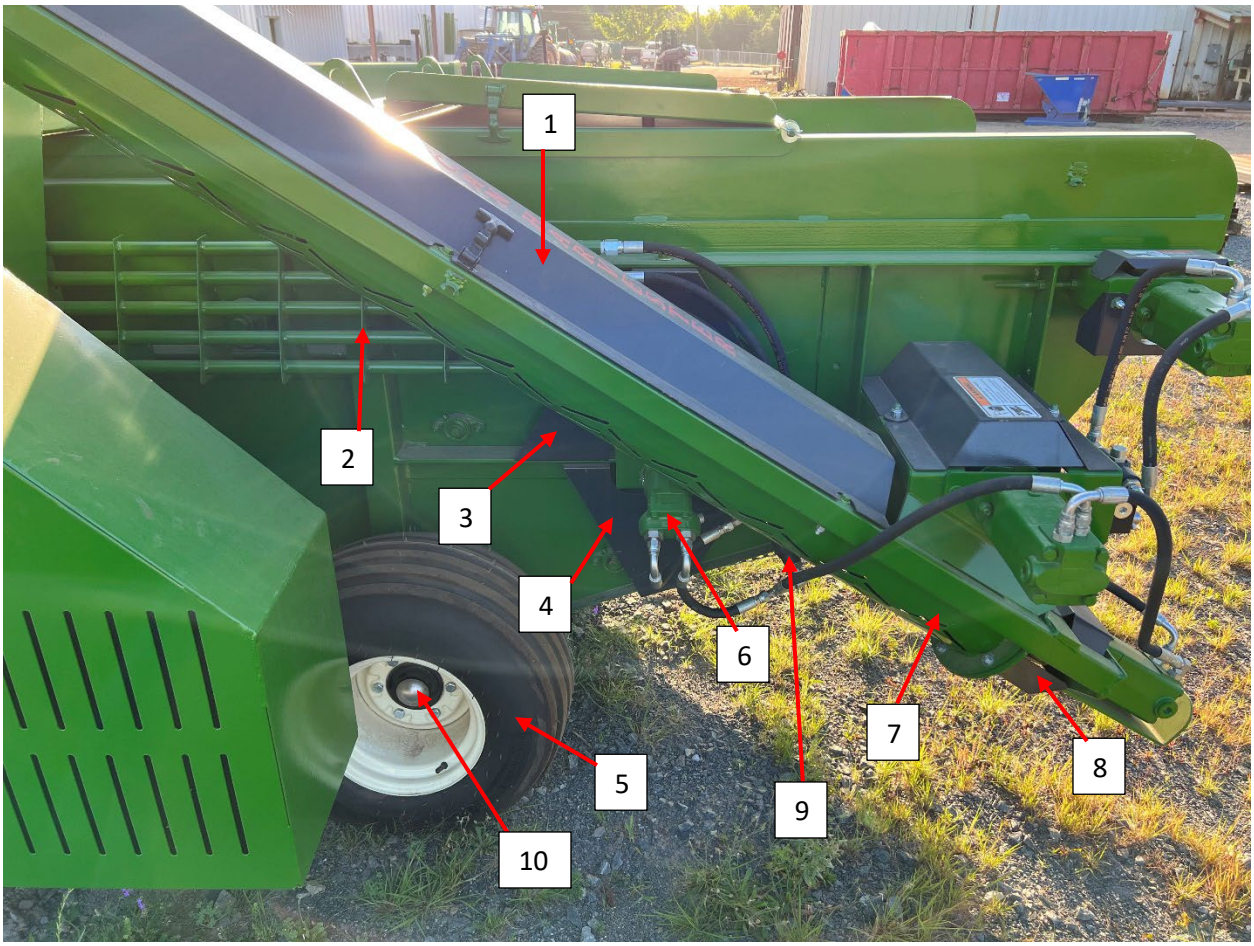
14. **Square roller shaft bearing adjustment screw-**
15. **Square roller shaft bearing-UCP208-24**
16. **Fan bearing-79-015-33**
17. **Oil Tank- PHT001**



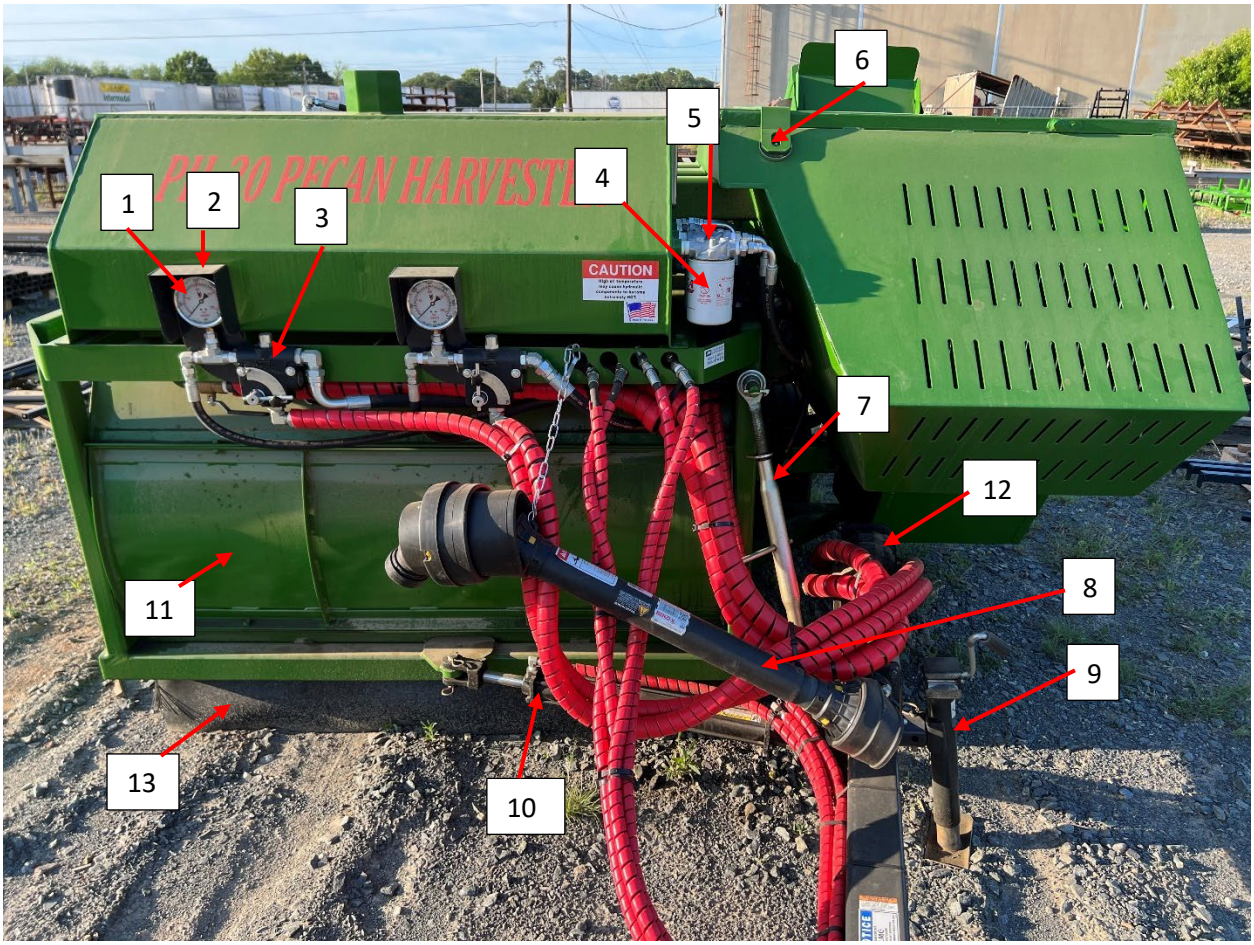
1. **Conveyor chain-79-1018-90**
2. **Rear hood assembly-**
3. **Square roller shaft-**
4. **Large chain plate-**



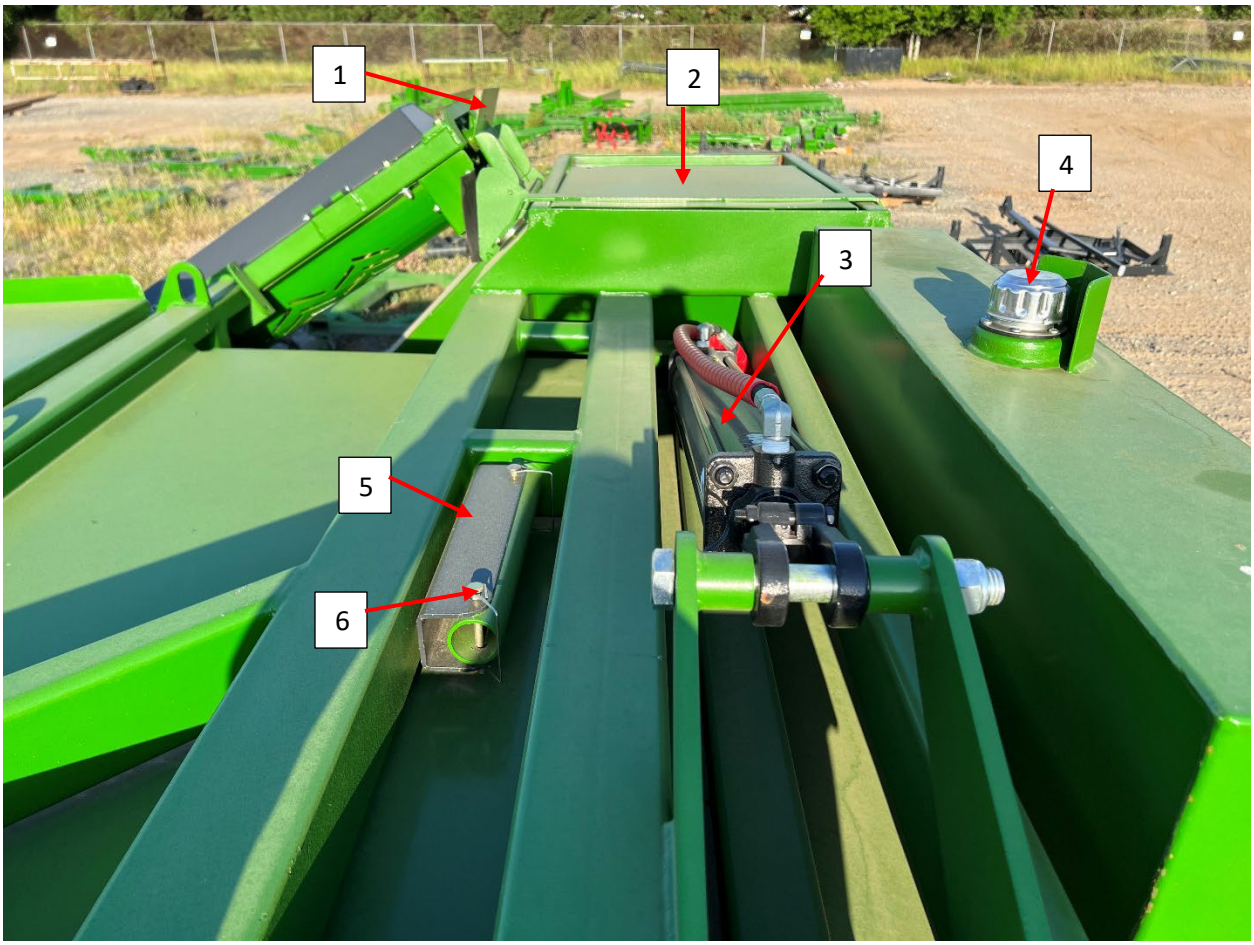
1. **Square roller shaft motor-**
2. **Square roller top chain coupler cover-**
3. **Square roller motor mount-**
4. **Square roller bottom coupler cover-**
5. **Square roller flow control valve-DFC-R-51-12-S**
6. **Vertical auger motor top coupling cover-**
7. **Vertical auger motor-**
8. **Horizontal auger motor**
9. **Horizontal auger top cover-**



1. **Vertical auger cover-**
2. **Radiator-**
3. **Large top fan cover-**
4. **Small bottom fan cover-**
5. **Tire and wheel-79-1009-85**
6. **Fan blade motor-**
7. **Vertical auger tray-**
8. **Vertical auger motor bottom coupling cover-**
9. **Check valve- VU34SAE**
10. **Hub assembly-77-001-02A**



1. **Pressure gauge-4140GXB3000**
2. **Pressure gauge cover-**
3. **Flow control valve-DFC-R-51-12-S**
4. **Oil filter-AE10**
5. **Oil filter head-ZAF07250**
6. **Magnet-5685K46**
7. **Top link-79-1005-85**
8. **Cv drive shaft-200-2-018D**
9. **Side wind jack-VI-050**
10. **Drop arm cylinder-79-1049-85**
11. **Front finger drum cover-**
12. **Hydraulic pump-**
13. **Front rubber flap-**



1. **Vertical auger dump flap cover-**
2. **Hopper top cover-**
3. **Dump cylinder-79-1010-85**
4. **Oil tank cap-HC-120-AS-S4**
5. **Dump cylinder safety lock-**
6. **Safety lock clips-**

Trouble Shooting Questions & Tips:

- **My harvester is leaving to many nuts on the ground.**
  - **Check to make sure you have the front of the machine height set properly with the hydraulic cylinder and the manual top link screw. The proper height of the front of the machine is 4-5 inches from the bottom right corner of the front right side of the machine.**
  - **Check to ensure that all the fingers are whole and not broken. Make sure the pickup fingers are the proper length and don't have a lot of wear on them. Make sure the fingers are oriented in the proper direction for picking up the nuts.**
  - **Check to make sure the fan speed and seperating chain are at proper working speeds to not cause the nut to fall out of the rear of the machine.**
  - **Check to make sure the rubber flap under the seperating chain door is fully intacted and not broken. If this is broken it can cause the front pickup fingers to throw the nuts out of the back of the machine.**
  - **Make sure the finger drum speed is running at max speed.**
- **My pressure gauges are spiking to 2000 PSI.**
  - **Check to make sure nothing is binding up any of the drive systems on the motors. Generally when a gauge spikes to 2000 psi one of the motors on that system has some sort of bind on it (example: if a large stick gets wedged in the front finger drum the motors will bind causing the psi on the gauge to spike to 2000 psi the the flow control valve will bypass).**
  - **If all motors are running freely and the gauge is still reading 2000 psi make sure none of the hoses are kinked.**
  - **If motors and hoses look to be operating normally and you still have a 2000 psi spike the next place to check are the oil filters and the flow control valves may need to be replaced. We recommend that you change the oil filters every year before harvesting.**
- **Im getting way to much sand or dirt in my hopper.**
  - **Check to make sure you don't have the front of the machine to low to the ground.**
  - **Check the fan operation to make sure it is working properly.**
  - **Check the seperating chain to make sure it is working properly.**
  - **Check the screens on the seperating chain and augers to make sure they are free flowing.**
  - **If your machine checks out then it may be to wet of conditions to be operating in.**
- **My harvester is cracking a lot of my nuts.**
  - **Check the augers and make sure they don't have a lot of wear on them. Augers with a lot of wear can cause the nut to get between it and the cover and crack small nuts.**
  - **Check the offset of the machine from the tractor. If the machine doesn't offset far enough it may be that the tractor tire is cracking the nuts before they get to the harvester.**