Case Series 2100 & 2300 Axial Flow Combines

Step 6 Next route the line from the feeder reversing chain, run along the hydraulic hoses back to the pump. Route lines from the brushes at grain tank auger chain and unloader auger drive chain back to pump. These two lines will be connected to the brass manifolds on the pump. Run the last line back to the Lube Minder pump. Connect after following Step 7.

Step 7 Before connecting the 5/32" tubes to the Lube Minder pump manifold valve holder assemblies, it is recommended that you take a regular hand oil pump and fill each 5/32" line with oil. This will reduce the number of times the oil pump has to actuate before oil will reach all the brushes. **IMPORTANT: PLEASE FOLLOW INSTRUCTIONS EXACTLY WHEN CONNECTING TUBING TO BRUSHES.** Cut the ends of the tubing squarely with a sharp cutter and put a mark ⅜" from the end of tube. Connect tubing to brush by pushing in on the orange plastic ring. While holding the ring down, insert the tube until it bottoms out. The mark on the tube should be flush with the orange ring. **IMPORTANT:** Tubing must only be removed by pushing in and holding down the orange plastic ring. Pulling the tubing out in any other way may result in damage. Connect the other end of the 5/32" tubes to the manifold valve holder assemblies on the Lube Minder pump with the compression fittings.

Step 8 **CAUTION: CHECK THAT ALL GUARDS ARE PROPERLY REPLACED BEFORE PROCEEDING.** Finish filling the oil tank with clean, lightweight oil. Cycle the unloading auger boom to activate the pump, making sure oil is being pumped through the lines. If no oil is being pumped, there is an air lock in the top of the pump. This is caused by filling the oil tank too fast. Loosen one of the manifold valve holders on the side of the pump to allow air to escape, then retighten.

Step 9 The Lube Minder is factory set to deliver the maximum amount of oil per cycle. If less is desired, loosen the jam nut on the bottom of the pump, using the double-wrench method. Screw in the adjusting shaft approximately five turns. Do not screw in more than fifteen turns as this will not allow for proper lubrication.

Step 10 **IMPORTANT:** Use clean lightweight oil that flows easily in all weather conditions. In cold weather, a SAE 5 or 10 wt is recommended or a mixture of two parts oil and one part diesel fuel. **NOTE:** Some modifications may be required on older model machines. **IMPORTANT:** When changing the number of times the oil pump has to actuate before oil will reach all the brushes, this is a function of the Lube Minder Pump. These two lines will be connected to the brass manifolds on the pump. Run the last line back to the Lube Minder pump. Connect after following Step 7.

www.gosuburban.com
Clean 5 wt. oil, placed in the reservoir, is all that is needed to lubricate the machine chains. The hydraulic hose, that is connected to the Lube Minder pump only serves to power a piston inside the pump each time that the unloading auger boom is extended and fully retracted. The chains are oiled in direct proportion to the number of times the grain is unloaded.

**Step 1** For series 2100 & 2300 machines, mount reservoir tank at location inside the compartment near cab door. Using the reservoir as a template, mark and drill (4) four 7/32” diameter holes. Secure with ¼” self tapping screws.

**Step 2** Using the pump mounting bracket as a template, mark and drill (2) two 7/32” diameter holes. Fasten the Lube Minder to the bracket with the U-bolt assembly. **NOTE: IF GRAIN PLATFORM OR CORN HEAD ACCESSORY KIT HAS BEEN PURCHASED, FOLLOW THE INSTRUCTIONS IN THAT KIT FOR ADDING TWO PORTS TO THE PUMP BEFORE PROCEEDING.** Cut the 5/8” ID braided hose as needed to connect the reservoir tank to the Lube Minder pump. Slide a hose clamp over each end of the braided hose. Secure one end of the hose to the bottom of the tank and the other to the barb on the top of the pump. **IMPORTANT:** At this time, slowly pour in approximately 1/8 cup of clean lightweight hydraulic oil or transmission fluid. This oil will slowly run down into the pump and allow air to escape from the top of the pump preventing an air lock.

**Step 3** Install the hydraulic hose assembly. Connect the flat-faced tee to the port on the hydraulic manifold. This line will also be pressurized when the unloading auger boom is returned to its park position at the side of the machine. Route the hose assembly down to the Lube Minder pump and connect to the #4 SAE port located on the side.

**Step 4** Install brushes on the brackets with ½-20 jam nuts. **DO NOT TIGHTEN.** Position brackets and use as a template. Mark and drill 7/32” diameter holes. Adjust so brush will push down into the chain about 3/8 of an inch. Secure with ¼ x 3/8 self tapping screws. Bracket locations include (Bracket P/N B94560 feeder reversing chain), (Bracket P/N B93045 grain tank auger chain) and (Bracket P/N B94560 unloading auger drive chain). Continuing on the right hand side of machine is bracket location (Bracket P/N 2018-S tailings elevator drive chain). **Note:** the bracket located at (Bracket P/N B94561 clean grain elevator drive chain) will be secured with the nut from the idler sprocket. Snug the jam nuts to secure the brush. **IMPORTANT:** DO NOT OVER TIGHTEN BRUSHES AS DAMAGE WILL RESULT.

**Step 5** Routing the oil feeder lines: **DO NOT CONNECT TUBING TO BRUSHES OR OIL PUMP UNTIL STEP 7 IS FINISHED.** Start with the longest run of tubing, the clean grain elevator chain. Route tubing along the wiring harness and back across the front of the machine, underneath the cab to the Lube Minder pump. In the same manner, route tubing from the unloading auger drive chain. Secure lines with cable ties as needed.