

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 3/4" 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 oiler pump output is adjustable. If less oil is desired, loosen the jam nut on the bottom of the oiler and screw in the adjusting shaft 1/4", or approximately 5 turns. It is not recommended to screw the shaft in more than 15 turns as this may not allow for proper lubrication and may completely shut off the oil flow. Turning the shaft the opposite way will increase the amount of oil delivered.

DO NOT BOTTOM OUT THE BRASS ADJUSTING ROD.

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.** Order part number B94558 for the accessory kit to oil the two chains on the corn head and the grain platform.



www.gosuburban.com

Case Series 2100, 2300 and 2588 Axial Flow Combines

READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLATION

Retain for future use



WARNING
Do Not attempt to service any machine without exercising the mandatory safety shut down procedure as described in the operators manual.




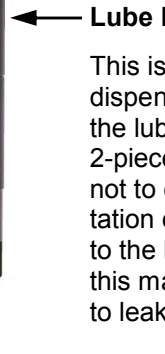

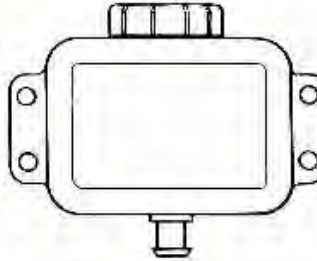
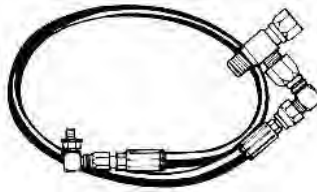
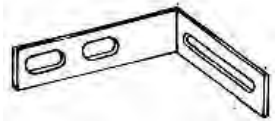
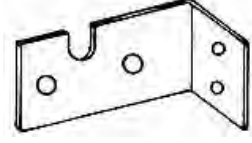

CAUTION
Installing this kit requires working near the tongue of the machine. **NEVER** work under a machine that is supported only by the storage jack. Support the tongue on steel or wooden blocks and prevent the machine from moving by blocking the wheels.



TOOLING REQUIRED

- 1) Electric Drill
- 2) Adjustable Wrench
- 3) Pliers
- 4) Standard Screwdrivers

LUBEMINDER COMPONENTS

 <p>Manifold Valve Holder Assembly This comes pre-installed into the Pump. There is one Manifold for each oil line.</p>	 <p>Lube Minder Pump This is the unit that dispenses and meters the lubrication. This is a 2-piece unit. Take care not to change the orientation of the top portion as this may cause the unit to leak.</p>	 <p>Brush Assembly The Brush is located at the point of lubrication. Position this where it will contact the chain or sprocket without getting caught in the mechanism.</p>	 <p>Reservoir Tank This connects to the Pump with hose clamps and a short length of braided hose (supplied)</p>
 <p>Hydraulic Hose Assembly This connects the Lube Minder Pump to the power source. This will be a high-pressure connection—please observe all appropriate safety precautions. The JIC fitting tee's into the hydraulic line.</p>		 <p>Brush Brackets These are used to mount the Brush Assemblies.</p>	 <p>Pump Bracket Used to mount the Pump to the piece of equipment.</p>
 <p>Oil Feed Tubing This tubing is used, as required, to connect the Brushes to the Manifolds.</p>		<p>IMPORTANT Components shown here may vary slightly depending on the make and model of equipment being lubricated. Refer to detailed installation instructions for specific information.</p>	

Our engineers are available to assist you with any installation questions during normal working hours, Central Standard Time, at 1-800-782-5752 or (763)295-5635

Suburban Manufacturing Inc. believes the information presented here to be accurate. Suburban Manufacturing Inc. shall not be held liable for damage or problems caused by possible design changes by the equipment manufacturer or customer-modifications of the equipment prior to the installation of this device. Liability limited to repair or replacement of the Lube Minder unit.

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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 1/4" 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.



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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 1/2-20 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 1/4 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.

