



Right Reel Backlapping Kit Greensmaster® 3000 Series

Part No. 107-9528

Form No. 3351-951

Installation Instructions



Caution



Accidental starting of the engine could seriously injure you or other bystanders.

Remove the key from the ignition switch before you do any maintenance.

Assembly

1. Remove the cutting unit motor and motor mounting nuts.
2. Tighten the spline nut on the right end of the cutting unit to 65–70 ft. lb. (Fig. 1).
3. Install the new cutting unit motor with the mounting nuts previously removed.
4. Identify the correct fitting locations and position for the right cutting unit by referring to Figure 2.

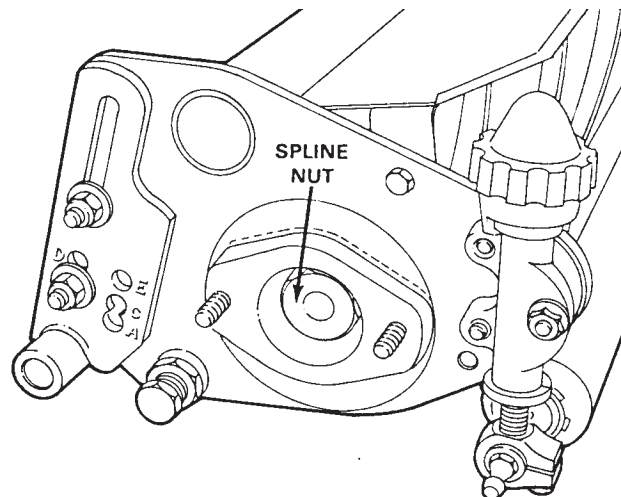


Figure 1

1. Spline nut

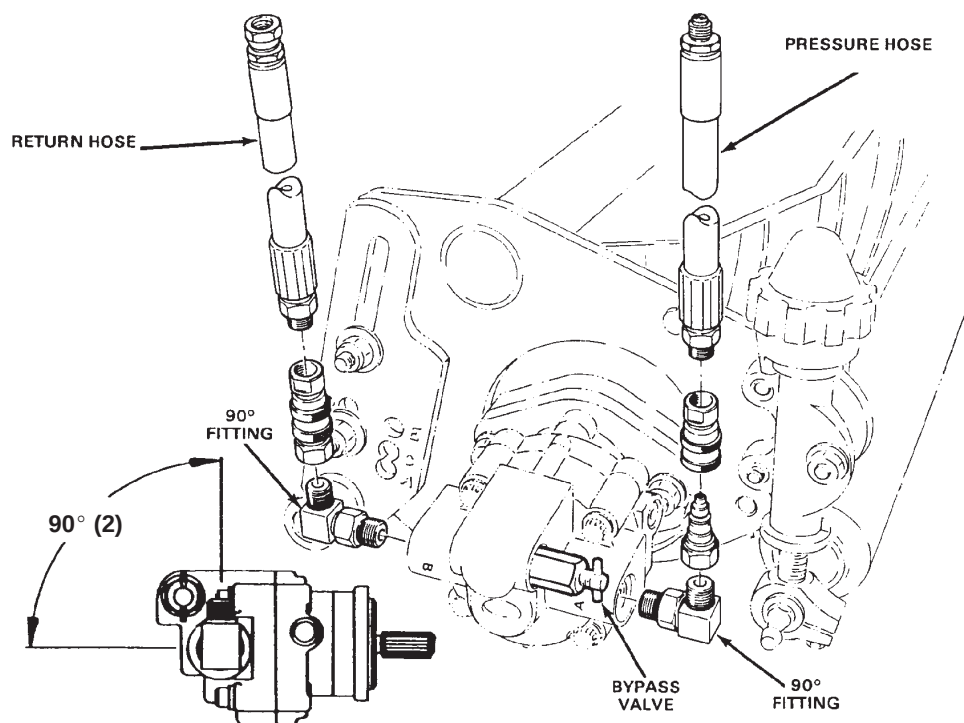


Figure 2

5. Disconnect the pressure and return hoses from the machine at the locations shown in figure 3.

Important If quick disconnect couplings are disconnected during the assembly of hoses, make sure no dirt or contaminants enter fitting.

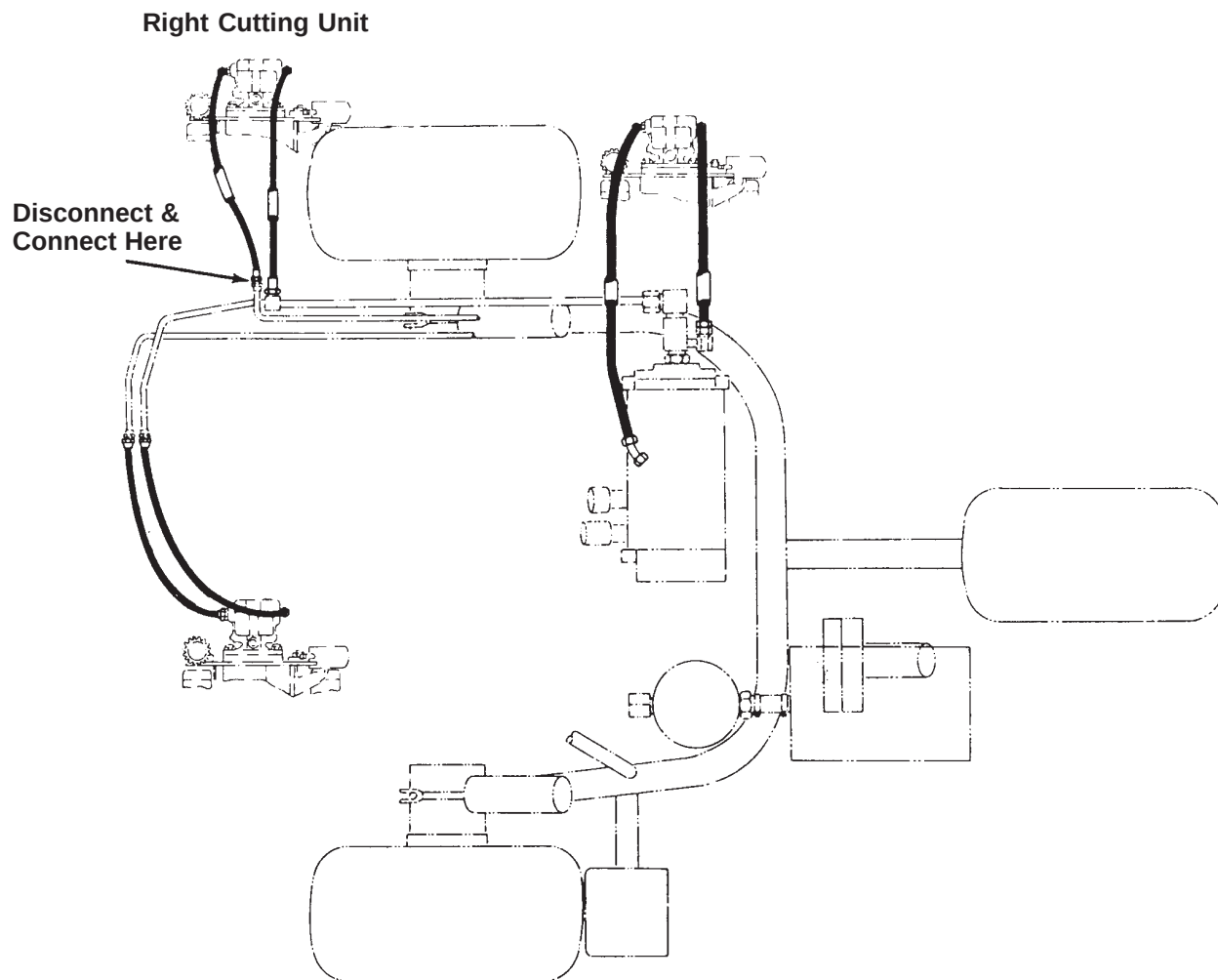


Figure 3

Backlap Operation

1. Two persons are necessary to perform the backlapping operation, one to work the controls and one to apply the lapping compound and perform the necessary adjustment.
2. Engage the parking brake, block the front wheels, start the engine and lower the cutting units. **Turn the engine off.**
3. Open the cutting unit motor bypass valve completely, by rotating the bypass valve handle counterclockwise.
4. Make sure the quick disconnect couplings are free of dirt or contaminants and disconnect them. Reverse the quick disconnects to opposite motor sides.



Caution



All persons working on the machine during backlapping operation must stay alert. All unnecessary personnel must be kept away to prevent distraction. Since each reel is under power during backlap operation and contact with reels can cause personal injury, the operator of the controls must be fully instructed on proper operating procedures and start reel operation only on direct instructions from the mechanic and only when he is fully in view.

5. Backlap one reel at a time. To prevent the reels, not being backlapped from rotating, insert a 1" x 2" piece of wood into the reel.

6. With the operator on the seat and the shift selector in the neutral position, start the engine and depress the mow pedal.
7. On the reel to be backlapped, have the assistant adjust the mower reel speed to 200–300 rpm by slowly rotating the bypass valve handle clockwise.

Note: For complete backlapping procedure, refer to the TORO Sharpening Reel and Rotary Mower manual, Form No. 80–300PT.



Danger



Under no circumstances use a short handled paint brush. 29–9100 Handle Assembly complete or individual parts are available from your local Authorized TORO Distributor.

8. Using a brush with a long handle, apply the lapping solution evenly over the full length of the reel assuring all reel blades are covered. Re-apply the lapping solution whenever the noise of the reel operating against the bedknife begins to disappear or when the reel appears to have even concentrations of material.
9. Adjust the bedknife adjusting knob clockwise, one click at a time, when necessary to maintain light contact between the reel and bedknife.



Danger



DO NOT ADJUST CUTTING UNITS WHILE REELS AND ENGINE ARE OPERATING. Instruct assistant to stop reels and shut engine off when adjustment is necessary.

10. Backlap until the cutting edges are sharp, even and consistent on all reel blades.
11. Stop the reel and **shut the engine off** upon completion. Lightly pass a fine file across the front face of bedknife to remove any burrs. Wash the cutting unit thoroughly, with a low pressure stream of water, to remove all lapping material.

Mower Operation

1. Disconnect the quick couplers and return them to there original position on the motor. The Return hose goes to the “B” port of the motor and the Pressure hose goes to the “A” port of the motor.
2. Close the motor bypass valve by rotating the bypass valve handle clockwise.

