



INSTRUCTION BULLETIN

No. 340793
Machine: 830II
Sentinel
Published: 03-2006
Rev. 02

NOTE: DO NOT DISCARD the Parts List from the Instruction Bulletin. Place the Parts List in the appropriate place in the machine manual for future reference. Retaining the Parts List will make it easier to reorder individual parts and will save the cost of ordering an entire kit.

NOTE: Numbers in parenthesis () are reference numbers for parts listed in Bill of Materials.

Installation instructions for **kit number 9001775**

SYNOPSIS:

This kit contains the parts needed to install a pulley pin repair kit on 830-II and Sentinel sweepers equipped with low dump hoppers. Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS: Gas cutting torch or Sawzall®
(Estimated time to complete: 4 hours)

PREPARATION:

1. Park the machine on a clean level surface and engage the parking brake.
2. Raise hopper and engage hopper support.



WARNING: Lift arm pinch point. Stay clear of hopper lift arms.



WARNING: Raised hopper may fall. Engage hopper support pin.

3. Use a cable tie to tie down the hopper down switch located underneath the left corner of the hopper. This allows the brushes to be operated while the hopper is tilted.

4. Place the machine into the sweep mode and allow the conveyor and main brush to cycle.
5. Turn off the machine and remove the key.

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, set parking brake, and remove key.

6. Remove the main brush from the machine. Refer to the Operators Manual for instructions how to remove the brushes.
7. Use a 6" block to block up the brush cage on the motor side of the machine. Blocking the brush cage will make it easier to later reassemble the machine.

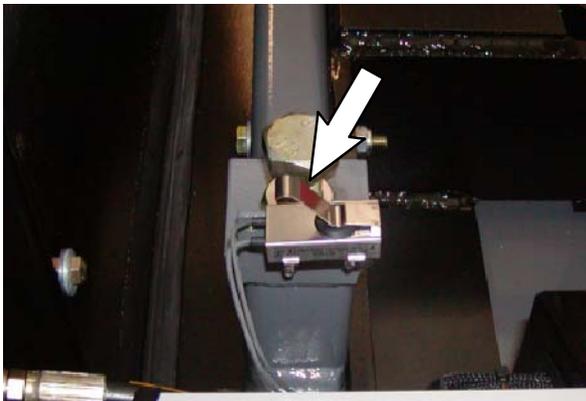


FIG. 1

Sawzall® is a registered trademark of the Milwaukee Electric Tool Corporation

INSTALLATION:

1. Loosen the nut on the main brush lift spring enough to remove the brush lift cable from the rear frame mount. The lift spring nut is located at the rear of the machine. Refer to Fig. 2, Fig. 3, and Fig. 11.



FIG. 2

2. Remove the pulley from the pin. Set the pulley aside. Discard the rest of the hardware. Refer to Fig. 3 and Fig. 11.

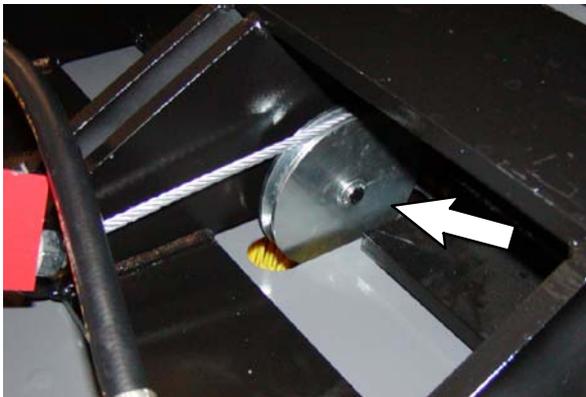


FIG. 3

3. Move the brush lift cable out of the area of the brush lift pulley pivot pin and shield the cable as necessary to prevent it from being damaged. Refer to Fig. 3 and Fig. 11.

4. Cut or torch the worn pin from the hopper base plate frame so the pin is flush with the plate. If necessary, grind the pin flush with the plate. Refer to Fig. 4 and Fig. 5.

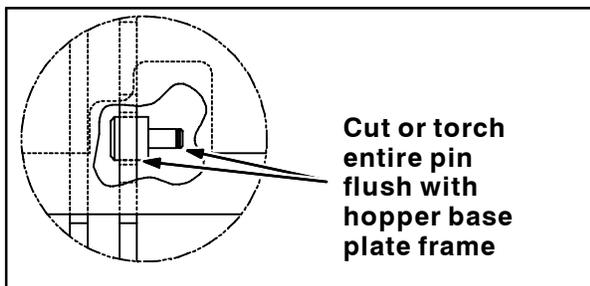


FIG. 4

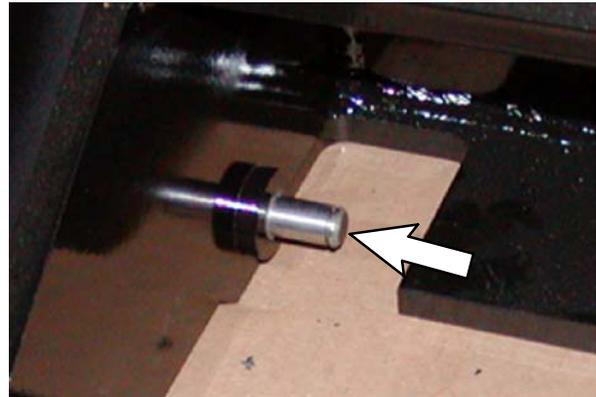


FIG. 5

5. Remove the hex nut and washer from the hex screw protruding through the hopper base plate and frame. Cut the head from the screw and remove the screw and other washers from the machine. Set two washers aside. Discard the hex screw, hex nut, and remaining washer. Refer to Fig. 6.

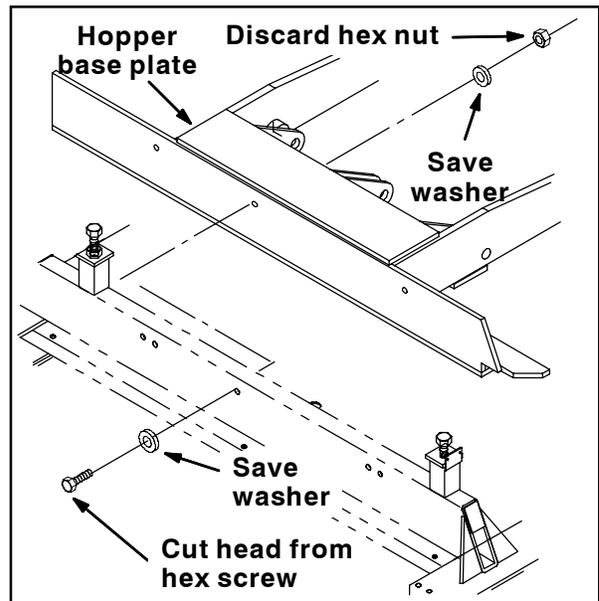


FIG. 6

6. Install the roll pin (6) through the 1/4" hole in one side of the pulley mount (1) and into the 1/4" hole on the other side. Refer to Fig. 7.

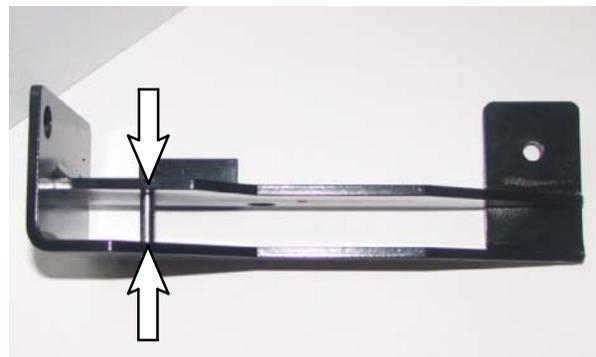


FIG. 7

7. Route the brush lift cable up through the pulley mount (1) and to the pulley side of the roll pin (6) while positioning the pulley mount onto the hopper base plate. Position the tab on the pulley mount in the slot in the hopper base plate. Refer to Fig. 8 and Fig. 9.

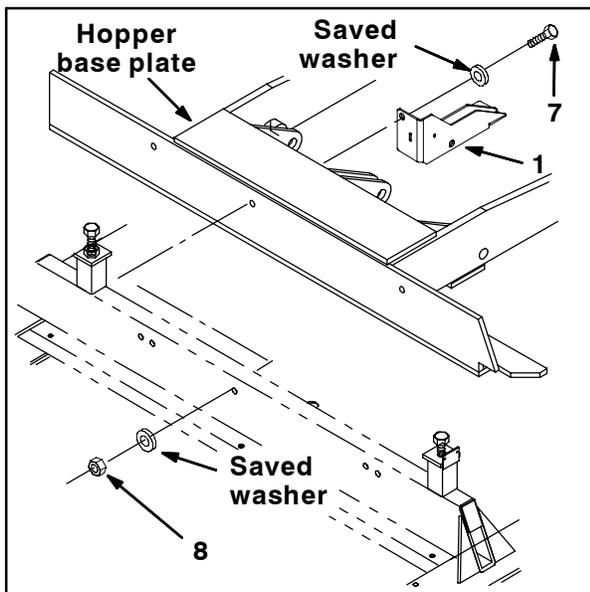


FIG. 8

8. Use hex screw (7), the two saved washers from Step 5, and hex nut (8) to secure the pulley mount (1) onto the hopper base plate. Be sure edge of the pulley mount is 1/8" from the pin plate on the hopper base plate. Refer to Fig. 8.

9. Press the sleeve bushing (9) into the hole in the pulley. Refer to Fig. 9.

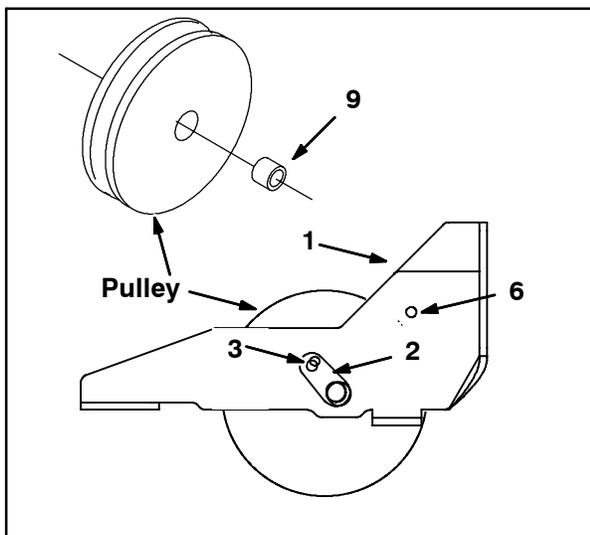


FIG. 9

10. Position the brush lift cable between the pulley and the roll pin (6) and insert the clevis pin (2) through the 1/2" hole in the pulley mount (1) and the pulley. Refer to Fig. 9.

11. Use a hex screw (3) to secure the clevis pin (2) and the pulley to the pulley mount (1). Refer to Fig. 9.

12. Be sure the inside edge of the pulley mount (1) is still 1/8" from the pin plate on the the hopper base plate.

13. Center punch through the hole in the tab of the pulley mount (1) and use a 19/64" bit to drill through the hole in the pulley mount and through the hopper base plate. Refer to Fig. 10.

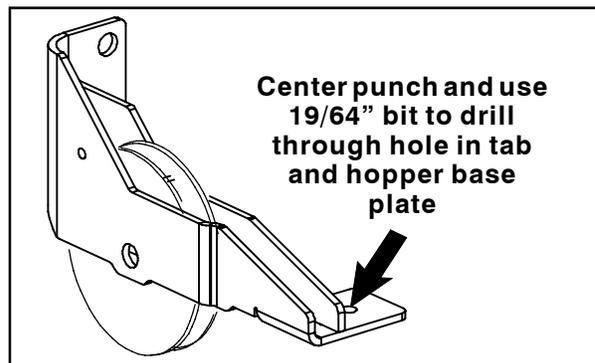


FIG. 10

14. Use hex screw (4) and flat washer (5) to secure the tab of the pulley mount (1) to the hole drilled into the hopper base plate. Refer to Fig. 10.

15. Reinstall the brush lift cable and tighten the nut on the main brush lift spring. Refer to Fig. 2 and Fig. 11.

16. Reinstall the brush.

17. Remove the tie down from the hopper down switch.

18. Remove the hopper support pin, start the machine, and lower the hopper.

19. Test the machine to ensure the hopper and brushes function. Check main brush pattern and adjust as necessary. Refer to Operators Manual for adjustment instructions.

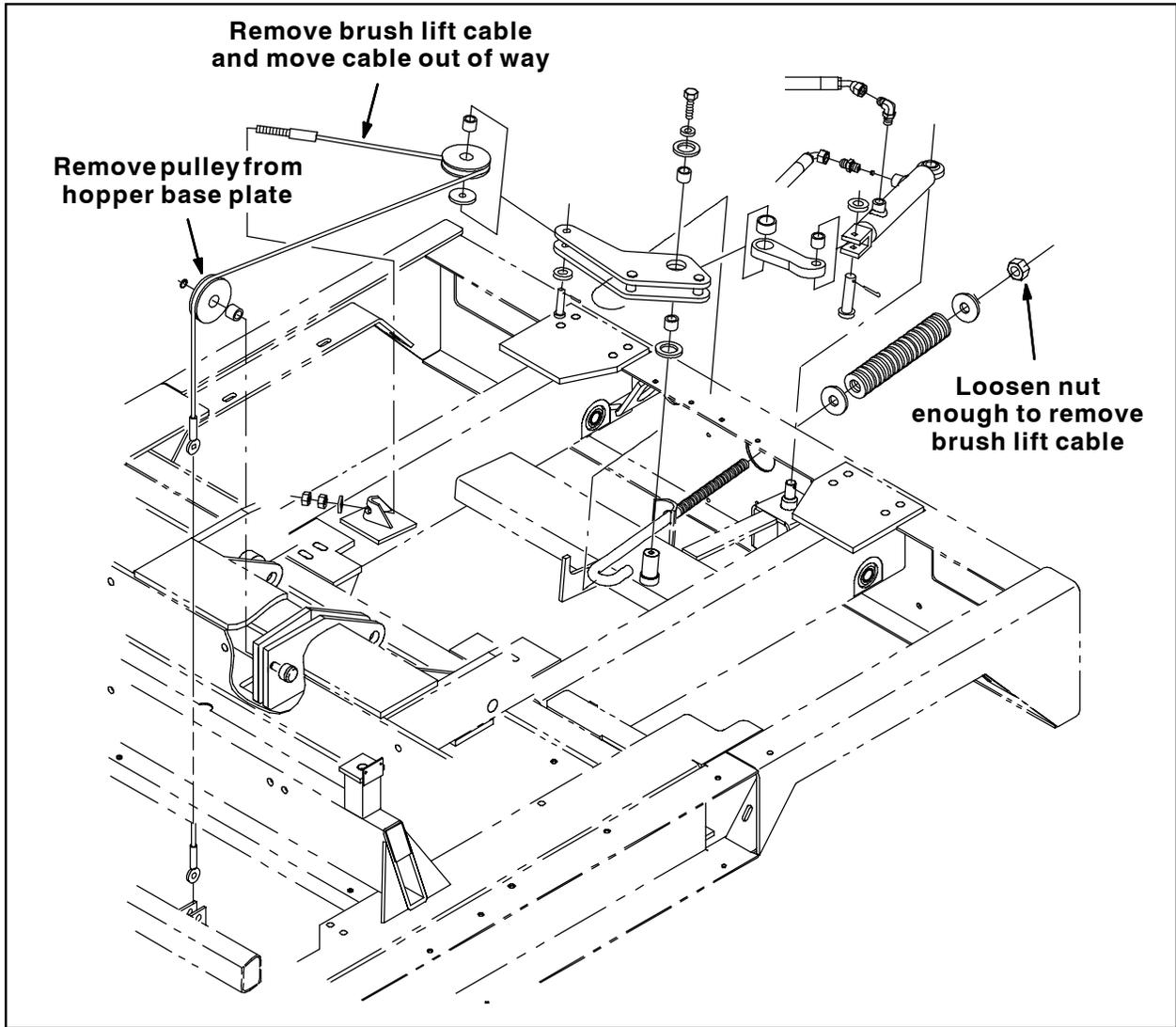


FIG. 11

Bill of Materials for Pulley Pin Kit, Repair-(9001775)

Ref.	Tennant Part No.	Description	Qty.
▽	9001775	Pulley Pin Kit, Repair	1
▲	1 1026950	Mount, Pulley, Wldt	1
▲	2 1026997	Pin Wldt, Clevis .550D	1
▲	3 222158	Screw, Hex, M6 X 1.0 X 10, Fmg	1
▲	4 763045	Screw, Hex, M8 X 1.25 X 20, Fmg	1
▲	5 32491	Washer, Flat, 0.31 Std	1
▲	6 26239	Pin, Roll, .250 D X 1.25L, .250/.256	1
▲	7 06975	Screw, Hex, M12 X 1.75 X 90, 8.8	1
▲	8 08711	Nut, Hex, Lock, M12 X 1.75, NL	1
▲	9 763118	Bushing, Sleeve	1

TENNANT COMPANY
P. O. Box 1452
Minneapolis, MN 55440-1452