



# INSTRUCTION BULLETIN

No. 340757  
Machine: Sentinel  
Published: 07-2004  
Rev. 00

**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 9001047**

## SYNOPSIS / PROBLEM:

This kit contains the parts needed to install/replace the rear cam bracket on Sentinel model sweepers. Please follow step-by-step instructions.

## SPECIAL TOOLS / CONSIDERATIONS: NONE

(Estimated time to complete: 2 hours)

## PREPARATION:

1. Park the machine on a clean level surface.
2. Tilt the hopper.

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

3. Engage hopper support pin-hopper tilt (low dump) or support bar-hopper lift/tilt (high dump).

**WARNING:** Tilted hopper may fall. Engage hopper support pin/support bar.

4. Turn off machine, remove key, and set parking brake.

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

## INSTALLATION:

1. Open the door to access the lift assembly.
2. Remove clevis pin (A) from the hydraulic cylinder (B) and upper link/eccentric shaft assembly (E). Refer to Fig. 1.

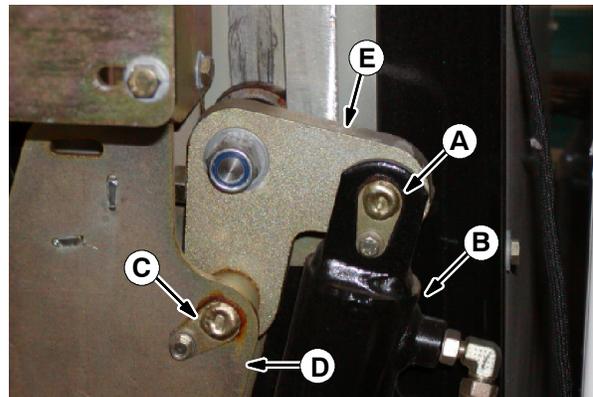


FIG. 1

3. Remove clevis pin (C) from the conveyor support (D) and upper link/eccentric shaft assembly (E). Refer to Fig. 1.
4. Discard clevis pins removed in the previous two steps. **Do not** discard screws and washers removed with the clevis pins.
5. Remove the upper link/eccentric shaft assembly (E) from the lift assembly. Refer to Fig. 1.
6. Use a cutting wheel to remove the rear cam bracket (F) from the lift assembly. Take care to not cut into the plate. Refer to Fig. 2.

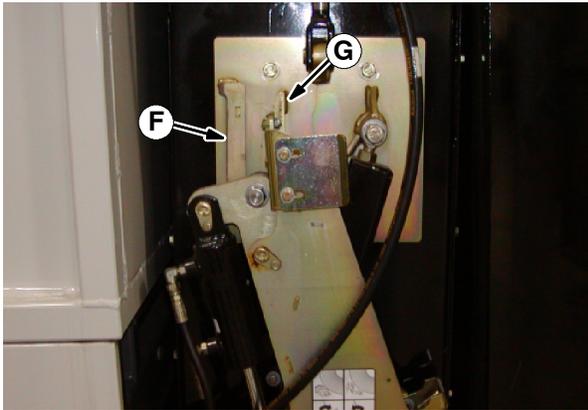


FIG. 2

7. Grind the welds left from the rear cam bracket flush with the plate.
8. Position the plate fixture (1)(not shown) against the front cam bracket (G).
9. Position a cam (2) against the plate assembly (1) positioned on the front cam bracket.
10. Weld the cam (2) onto the plate. Weld only along the outer edge (H) and the top (J) and bottom of the cam. Be sure the cam stays flat against the plate when welding the cam into place. **Do not** weld along the inner edge (K) of the cam where the cam roller bearing (L) travels. Refer to Fig. 3.

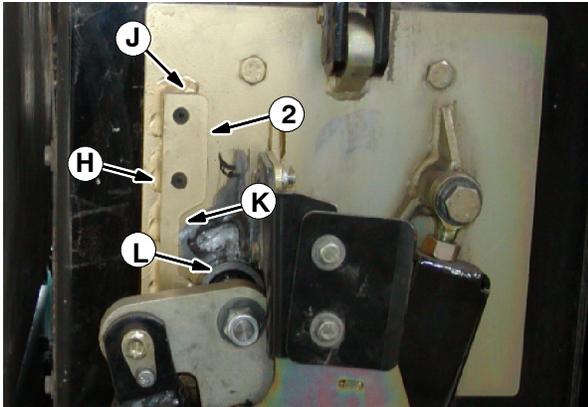


FIG. 3

11. Apply a protective coating onto the cam (2) installed in the previous step to prevent the cam from rusting
12. Use four screws (4) to attach a guide plate (3) onto the cam (2). Refer to Fig. 5.

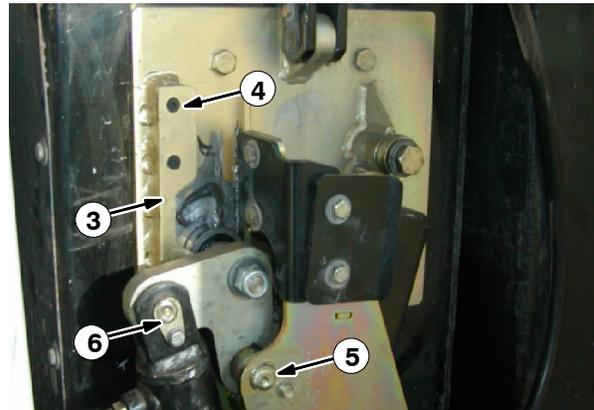


FIG. 4

13. Place the upper link/eccentric shaft assembly back into the lift assembly.
14. Install a clevis pin (5) through the conveyor support and the upper link, align appropriate hole in clevis pin (5) with hole in the conveyor support, and secure clevis pin (5) into place with the screw and washer from the clevis pin removed in Step 3.
15. Install a clevis pin (6) through the hydraulic cylinder and the upper link, align appropriate hole in clevis pin (5) with hole in the hydraulic cylinder, and secure clevis pin (6) into place with the screw and washer from the clevis pin removed in Step 4.
16. Repeat Steps 1 through 15 to replace the cam located on the opposite side of the machine.
17. Discard plate fixture (1) when through installing kit.

---

**Bill of Materials for Kit, Conveyor, Leaf Mode (9001047)**

	<b>Ref.</b>	<b>Tennant Part No.</b>	<b>Description</b>	<b>Qty.</b>
▽		9001047	Kit, Conveyor, Leaf Mode	1
▲	1	1018372	Plate Fixture	1
▲	2	1018864	Cam	2
▲	3	1018891	Plate, Guide	2
▲	4	09062	Screw, Flt, M6 X 1.0 X 16, 10.9	8
▲	5	1007616	Pin, Wldt, Clevis	2
▲	6	1007105	Pin, Wldt, Clevis	2

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