

P-09: Rebuild Bucket Trap

SAFETY FIRST

- Follow all Caterpillar facility safety standards when performing this task.
- Be aware that the trap may be very hot if recently removed from the system. Let the trap cool or minor burns may result.

EQUIPMENT

- basic Maintenance Mechanic hand tools
- wrenches
- putty knife
- wire brush
- pipe wrenches
- anti-seize compound
- bucket trap replacement kit and gasket

RESOURCES

- manufacturer's repair manual

Rebuild Bucket Trap

1. Acquire the bucket trap replacement kit and gasket.

- Note the model number on the trap and the specifications from the trap top.
- Ask the lead man to order the replacement kit and gasket.

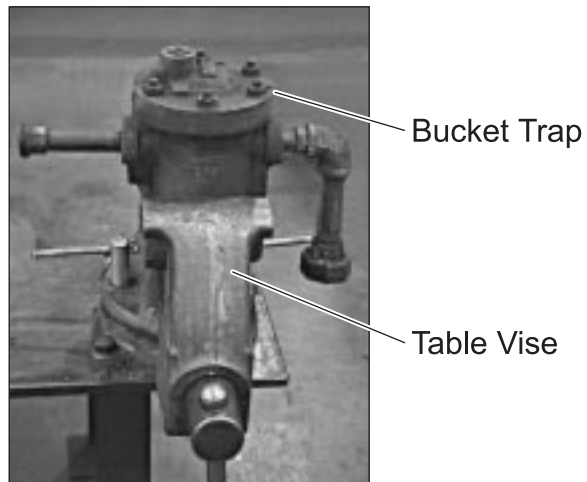


- Verify that there is a new seat, pivot, and actuator in the replacement kit.



Replacement Kit Components

- Make sure the new gasket matches the old gasket.
- 2. Secure the trap assembly in a table vise.**



Trap Assembly Secured in Vise

3. **Remove the assembly bolts from the top of the trap.**
 - Use the correctly sized wrenches to remove the bolts.



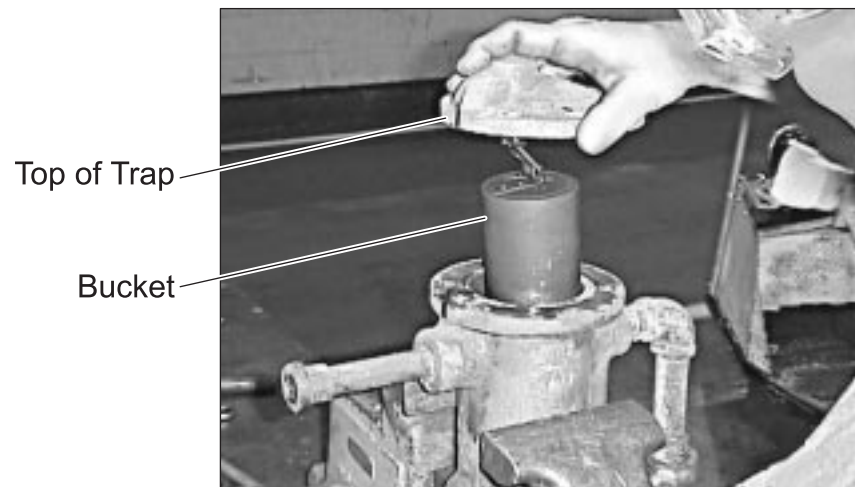
Bolt Removal

- Mark the port orientation before removing the top of the trap.



Port Orientation

4. **Remove the top of the trap with the bucket attached.**



Bucket Trap

5. **Detach the bucket from the actuator arm.**



Bucket Detachment

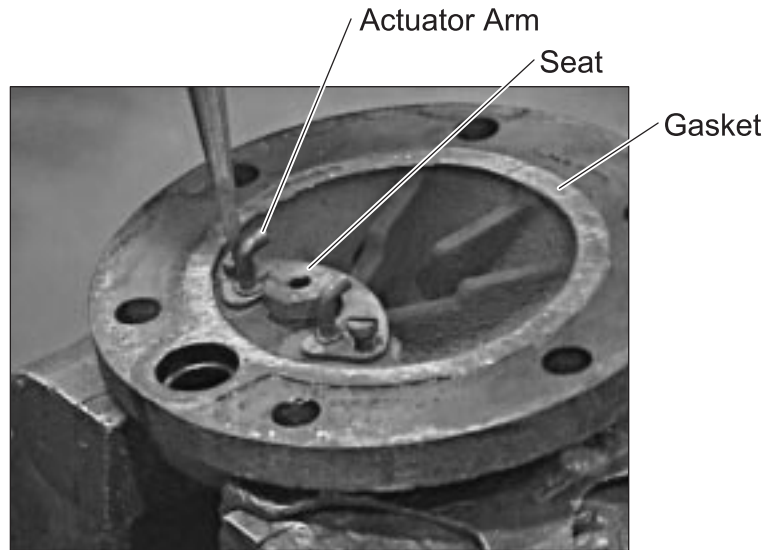
6. **Unhook the actuator arm from the pivot.**
7. **Empty any water or sludge from the trap.**

8. Secure the trap top in a vise.

- Position the inside of the trap top facing up.

9. Remove the pivot from the trap top.

- Remove the two screws with a blade screwdriver, and set the screws and pivot to the side.

**Trap Top****10. Remove the seat from the trap top.****11. Remove the gasket.**

- Scrape the gasket from the trap and trap top using a putty knife, wire brush, or any needed tool to clean the surfaces.

12. Replace the gasket with a new gasket.

- Apply anti-seize compound to both sides of the gasket.

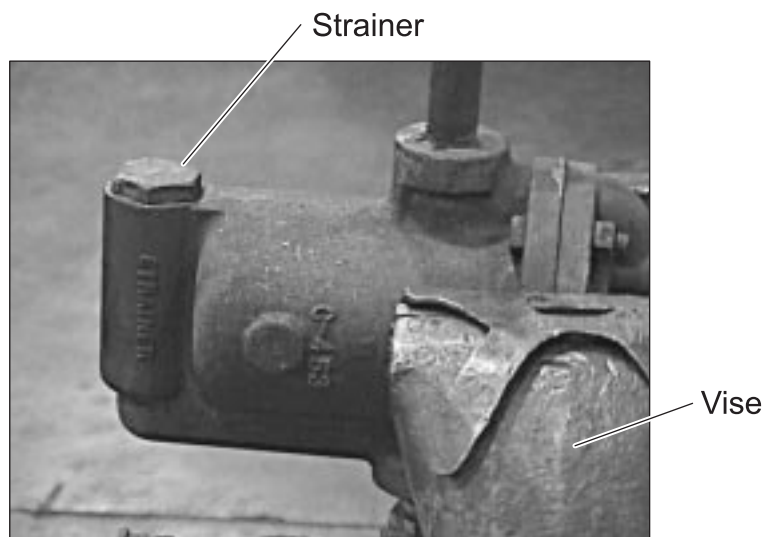
Caution: Do not get any anti-seize on the ground seat surfaces.

- Verify that the gasket is seated in the top.

13. Replace the old seat with the new seat.

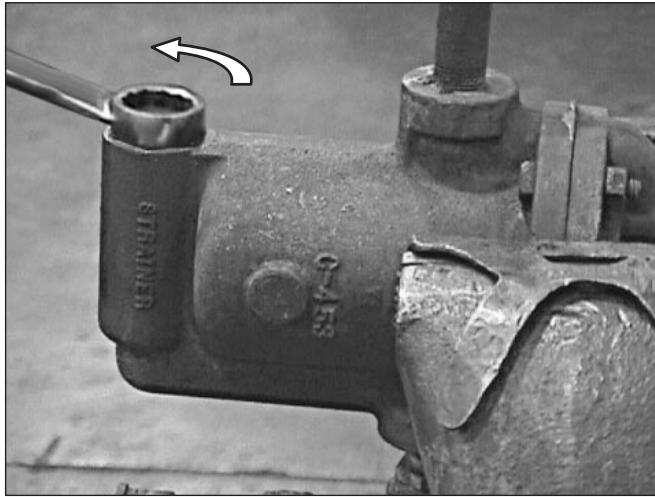
- Apply anti-seize to the threads of the new seat.
- Tighten the seat until it bottoms out.

14. **Replace the old pivot with the new pivot.**
 - Tighten the screws hand-tight, and turn the screwdriver another 1/4 turn.
15. **Attach the new actuator arm to the pivot.**
 - Reattach the actuator verifying that the arm pivots so the bucket raises and lowers correctly.
16. **Secure the trap in the vise.**
17. **Connect the bucket to the actuator.**
 - Verify that the bucket assembly is assembled and operates correctly.
18. **Reattach the trap top.**
 - Apply anti-seize compound to the bolts.
19. **Remove and clean the strainer.**
 - Position the trap in the vise as shown below.



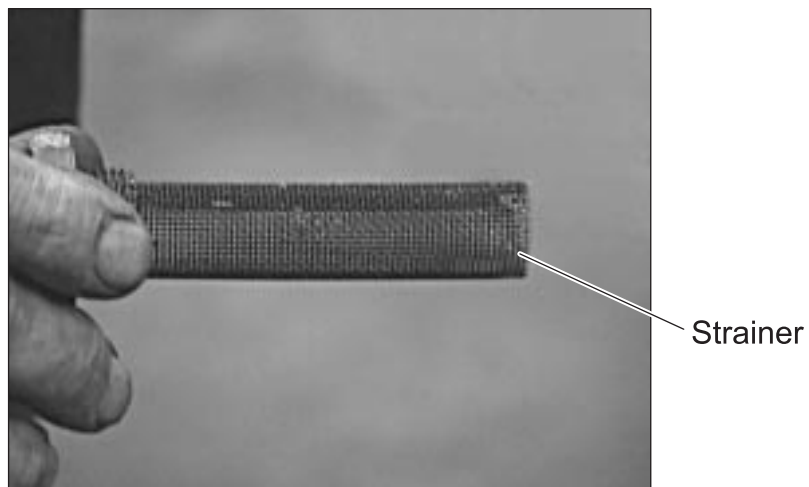
Strainer Orientation

- Use the correctly sized wrench to remove the strainer.



Strainer Removal

- Clean the strainer with soap and water.



Strainer

- Clean the reservoir, if necessary.
- 20. Reconnect the strainer.**
 - Apply anti-seize compound to the threads.
 - 21. Clean up the work area.**
 - 22. Discard the used parts and packages.**