

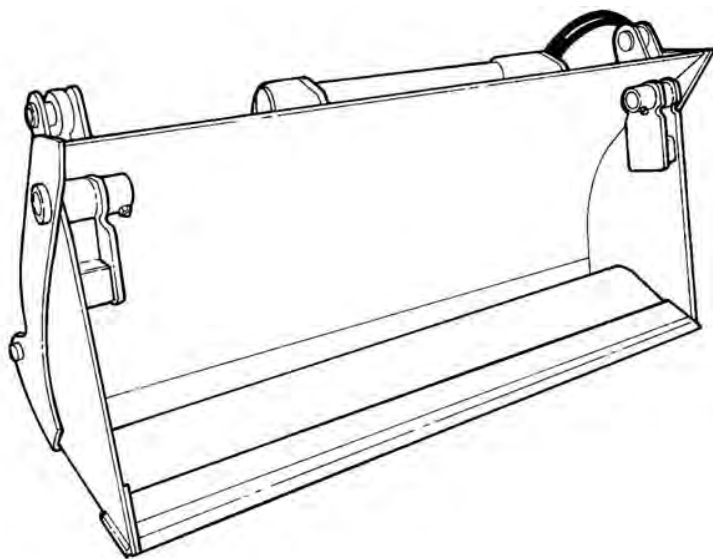
**Combination  
Bucket  
80" & 90"**



**Bobcat®**

# **VersaHANDLER Attachment Service Manual**

**S/N 028500101 & Above  
S/N 028700101 & Above**



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Printed in U.S.A.



# MAINTENANCE SAFETY



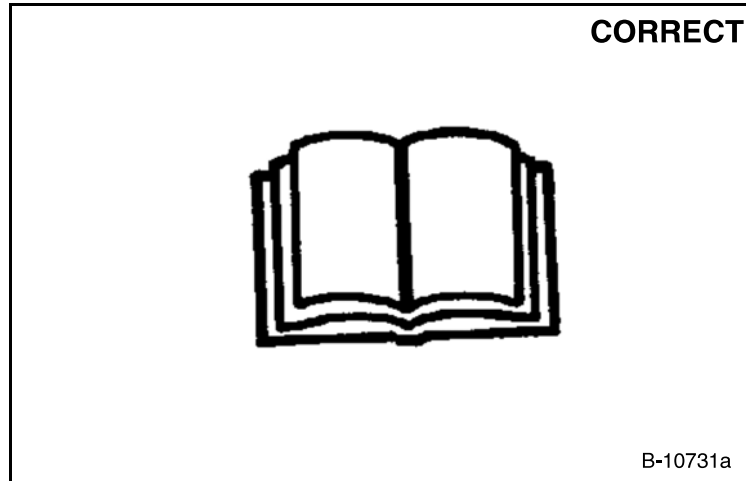
## WARNING









Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0903



**Safety Alert Symbol:** This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.



-  **Never service attachments without instructions. See Operation & Maintenance Manual and Attachment Service Manual.**
-  **Cleaning and maintenance are required daily.**
-  **Never service or adjust attachment with the engine running unless instructed to do so in manual.**
-  **Always lower the attachment to the ground before lubricating or servicing.**
-  **Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate skin or eyes.**
-  **Stop, cool and clean engine of flammable materials before checking fluids.**
-  **Keep body, loose objects and clothing away from moving parts, electrical contacts, hot parts and exhaust.**
-  **Safety glasses are needed for eye protection from electrical arcs, battery acid, compressed springs, fluids under pressure and flying debris or when tools are used. Use eye protection approved for type of welding.**

**Thanks very much for your reading,  
Want to get more information,  
Please click here, Then get the complete  
manual**

**JustClickHere** 

**NOTE:**

**If there is no response to click on the link above,  
please download the PDF document first, and then  
click on it.**

**Have any questions please write to me:  
[admin@servicemanualperfect.com](mailto:admin@servicemanualperfect.com)**



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**SAFETY AND  
MAINTENANCE**

**HYDRAULIC  
SYSTEM**

**MAIN  
FRAME**

**SPECIFICATIONS  
AND  
SCHEMATICS**

**CALIFORNIA  
PROPOSITION 65 WARNING**  
Diesel engine exhaust and some of its  
constituents are known to the State of California  
to cause cancer, birth defects and other  
reproductive harm.

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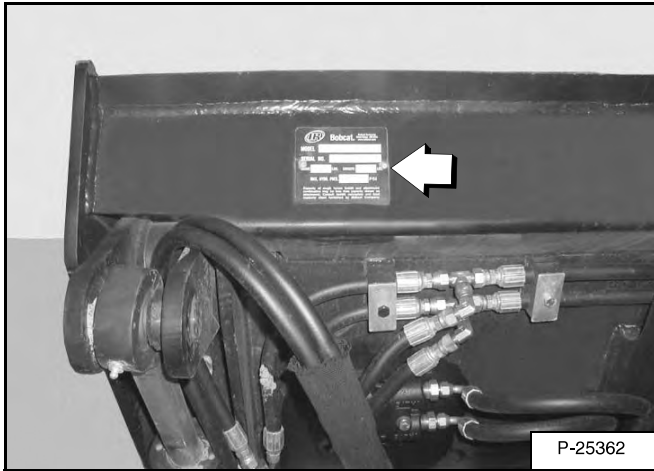




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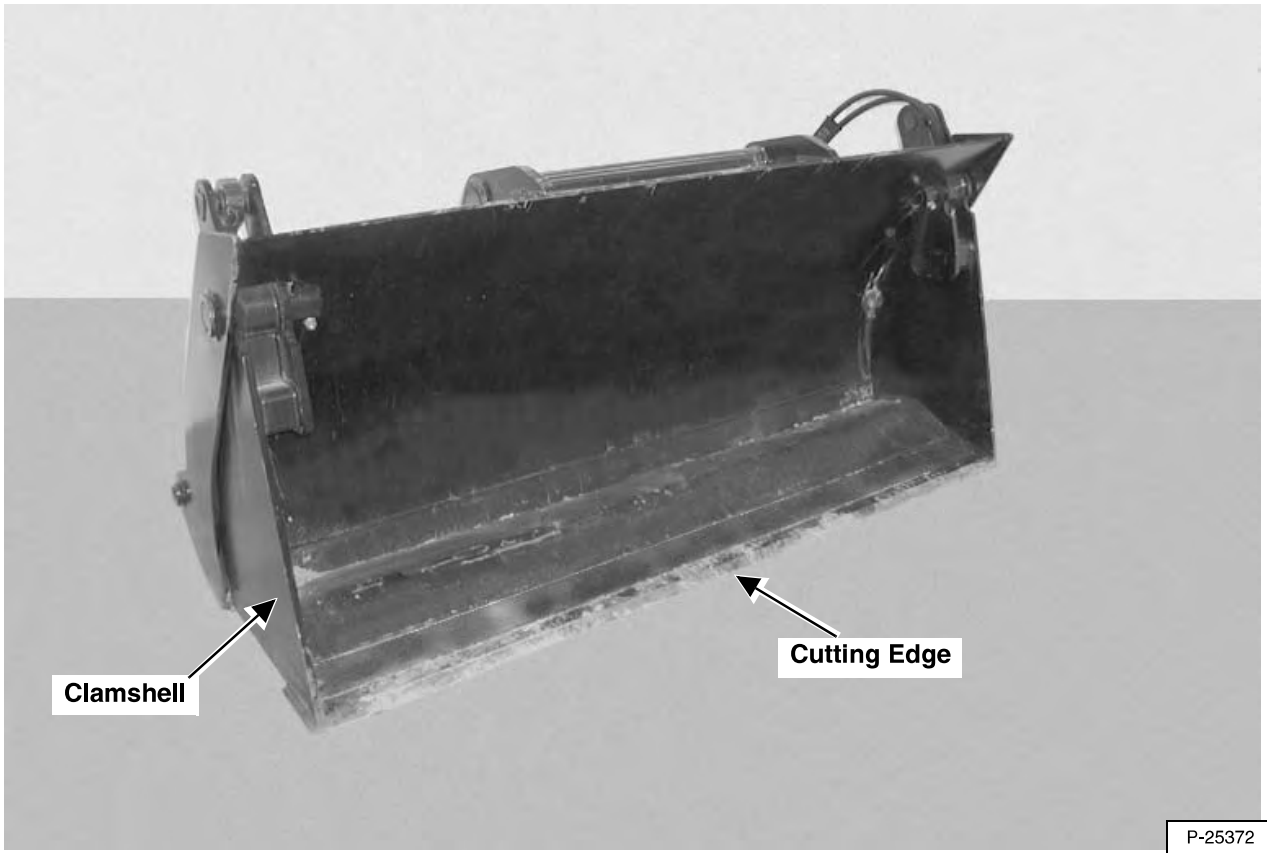
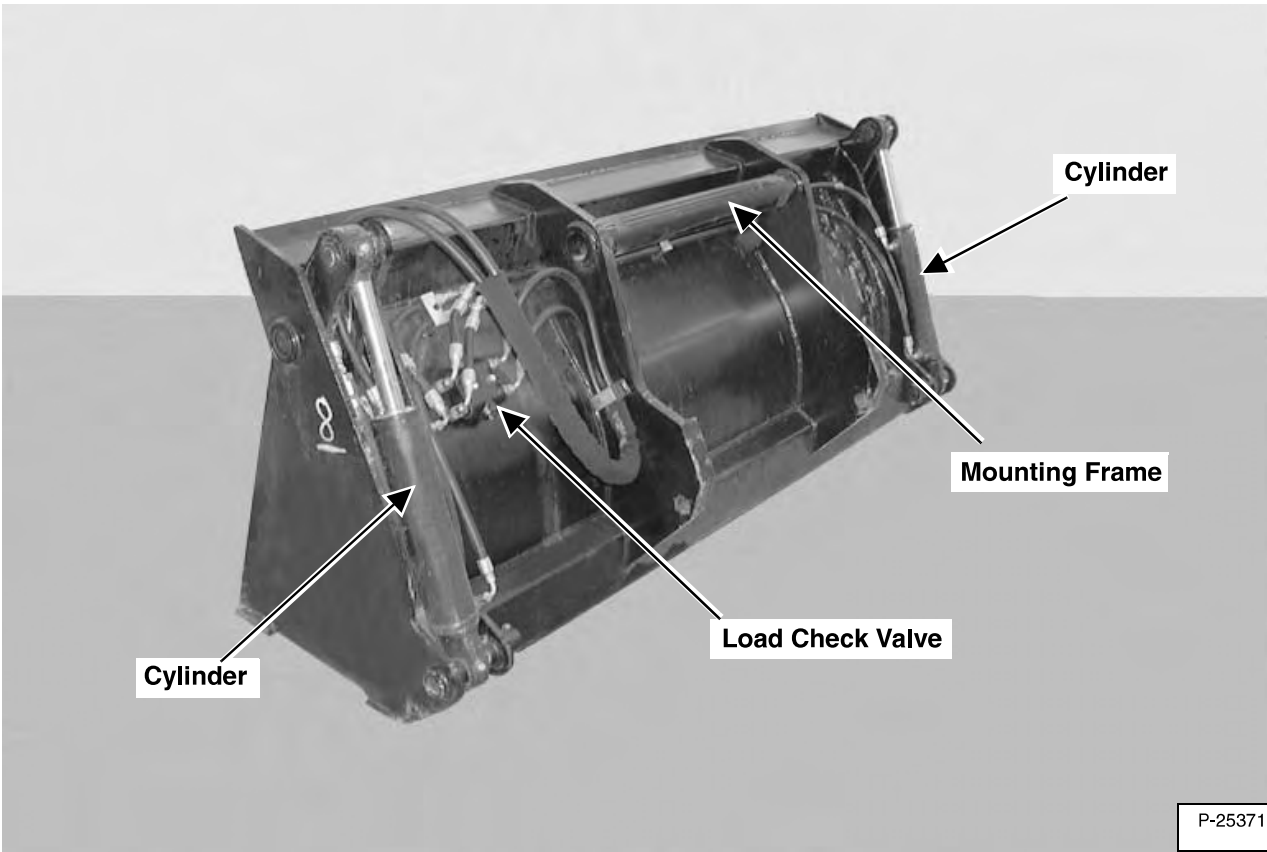
## SERIAL NUMBER LOCATION

Figure 1



Always use the serial number of the machine when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service [Figure 1].

**PARTS IDENTIFICATION**



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## SAFETY AND MAINTENANCE

## SAFETY AND MAINTENANCE

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## TROUBLESHOOTING



### WARNING

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W-2003-0903

If the Combination Bucket is not working correctly, check the hydraulic system of the VersaHANDLER thoroughly before making any repairs on the Combination Bucket. Combination Bucket problems can be affected by a hydraulic system that is not operating to specifications.

If the VersaHANDLER operation is found to be correct, use the following troubleshooting chart to locate and correct problems with the Combination Bucket.

| PROBLEM   | CAUSE  | CORRECTION  |
|---|--|---|
| Combination Bucket does not mount properly on the VersaHANDLER. | VersaHANDLER attachment locking pins are not fully retracted.  | Retract VersaHANDLER attachment locking pins.                                       |
|   | Mud, dirt or stones are lodged between the VersaHANDLER mounting frame and the Combination Bucket mount. | Remove debris between the VersaHANDLER mounting frame and Combination Bucket mount. |
| Grapple does not open or close.                                 | No hydraulic flow  | Activate VersaHANDLER hydraulic on/off switch.                                      |
|   | No Hydraulic flow  | Activate VersaHANDLER secondary auxiliary hydraulic switch.                         |
|   | No hydraulic flow  | Check quick couplers connection. Check for damaged hose ends and fittings.          |

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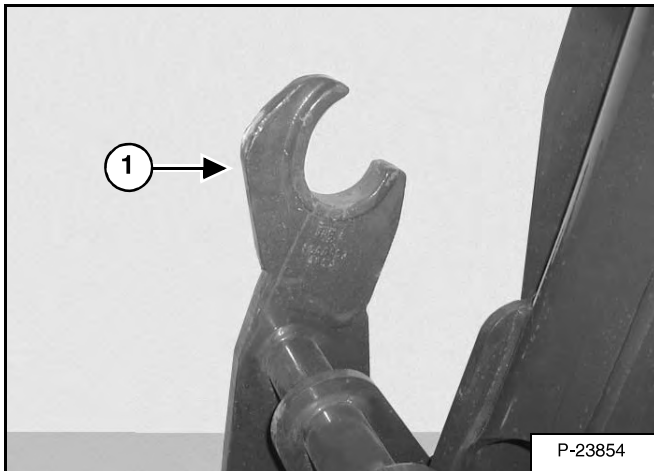
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## INSPECTION

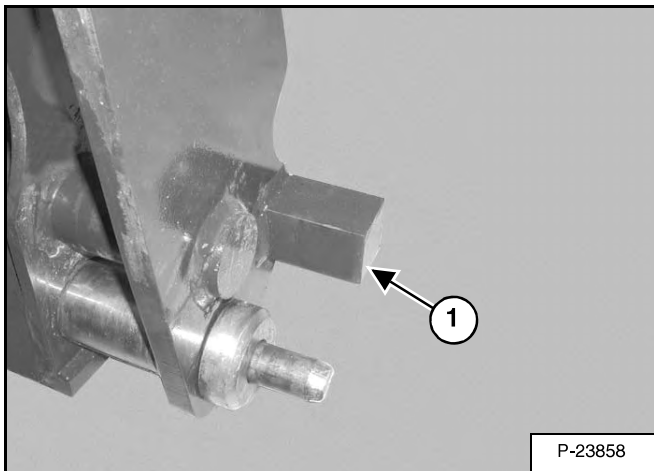
### VersaHANDLER Mounting Frame Inspection

Figure 10-20-1



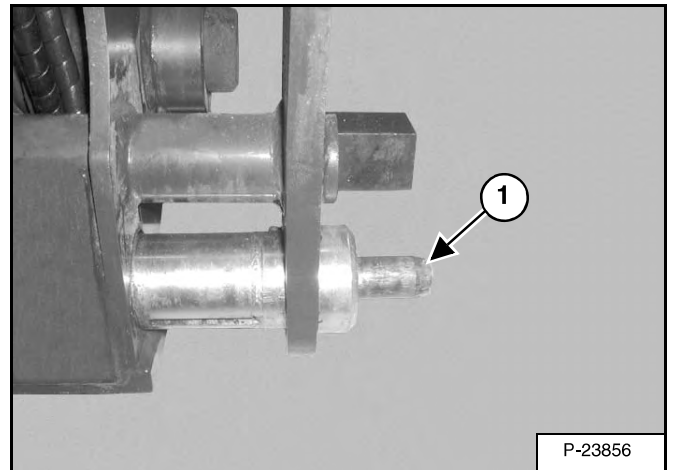
The VersaHANDLER mounting hooks (item 1) [Figure 10-20-1] must not be damaged. Check for cracked or broken hooks.

Figure 10-20-2



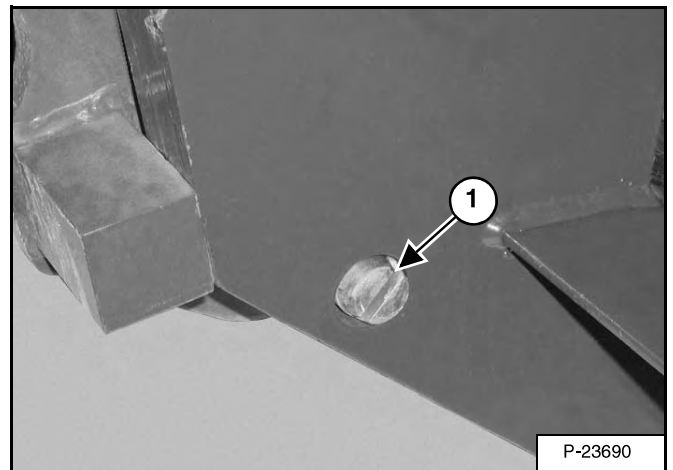
The stop blocks (Item 1) [Figure 10-20-2] must not be damaged. Check for bent or broken stop blocks.

Figure 10-20-3



Move the VersaHANDLER locking pins to engage the pins (Item 1) [Figure 10-20-3]. The pins must move freely. The pins must not be bent or the ends mushroomed.

Figure 10-20-4



The pins must extend through the holes in the attachment mounting frame (Item 1) [Figure 10-20-4].

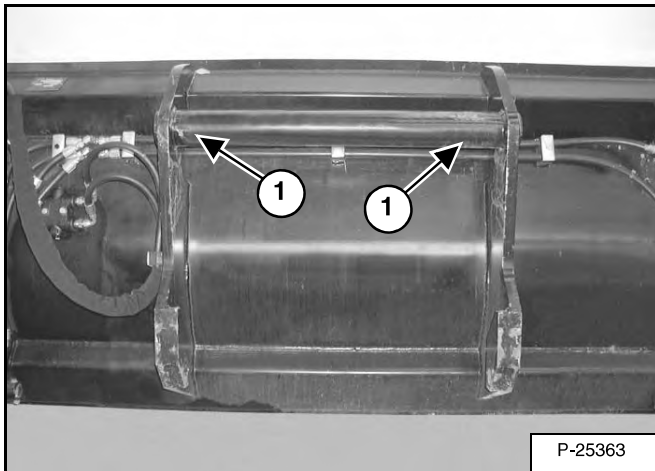
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## INSPECTION (CONT'D)

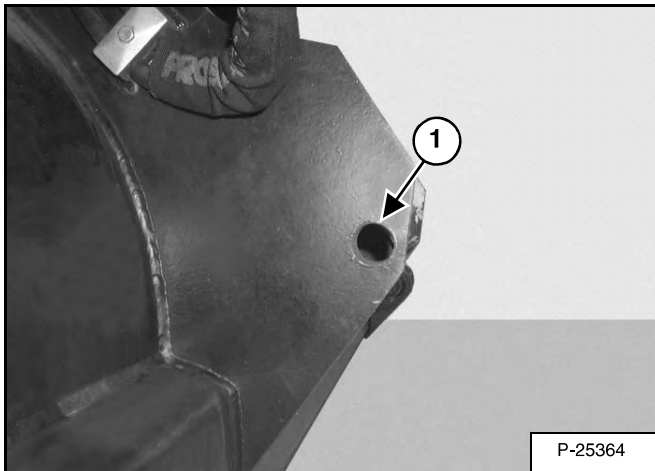
### Combination Bucket Mount Inspection

Figure 10-20-5



Inspect the Combination bucket mounting tube (Item 1) [Figure 10-20-5] and all welds on the Combination Bucket mount for wear and damage each time the attachment is removed from the VersaHANDLER.

Figure 10-20-6



Inspect the mounting holes (Item 1) [Figure 10-20-6].

## LUBRICATION

Always use a good quality lithium base multi-purpose grease when lubricating the Combination bucket. Apply the lubricant until extra grease shows.

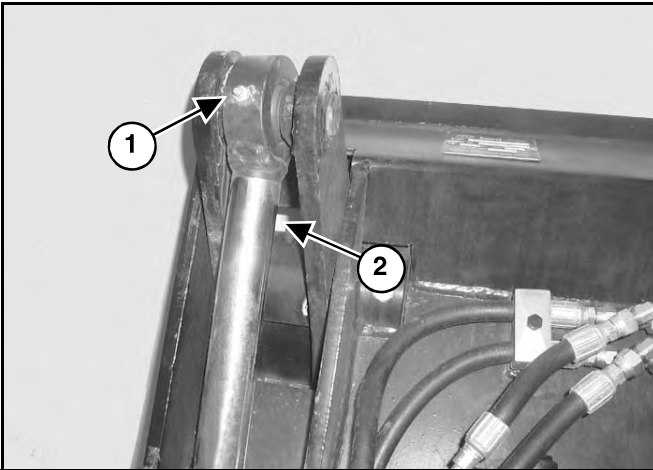
# IMPORTANT

Fluid such as engine oil, hydraulic fluid, coolants, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

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Lubricate the six grease fittings (three per side), EVERY 8-10 hours:

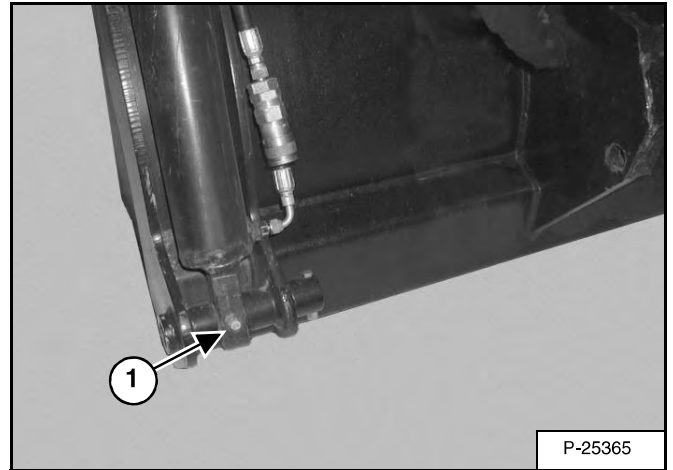
**Figure 10-30-1**



Cylinder rod end (Item 1) [Figure 10-30-1] (both sides).

Clamshell pivot pin (Item 2) [Figure 10-30-1] (both sides).

**Figure 10-30-2**



Cylinder base end (Item 1) [Figure 10-30-2] (both sides).

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