

Cutter Crusher

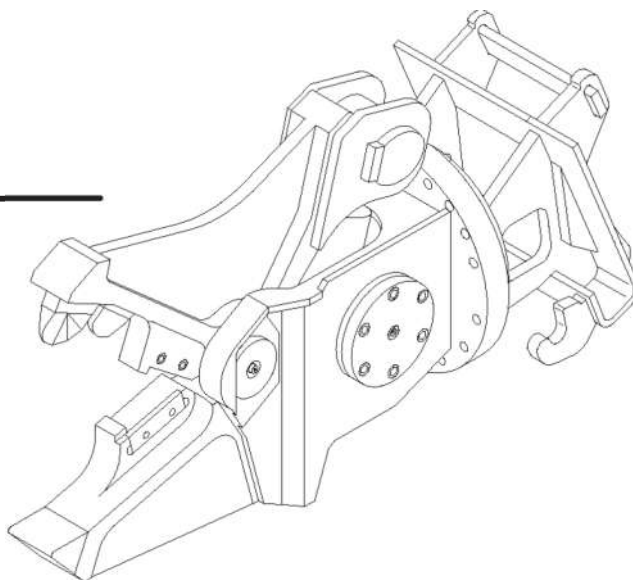
**Model 30
Model 40**



Bobcat®

Service Manual

**Model 30 – S/N 991100101 & Above
Model 40 – S/N 991300101 & Above**



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.

CORRECT



B-10731a

-  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.



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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.



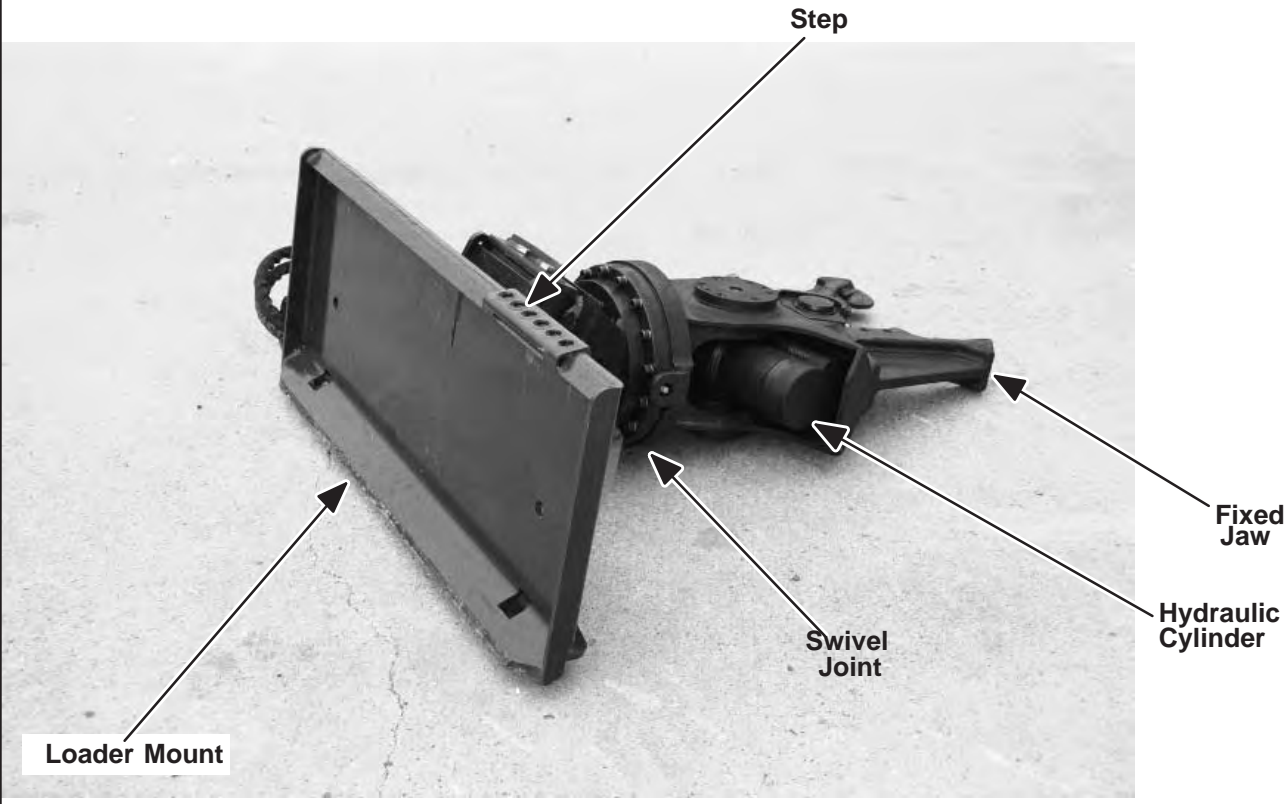
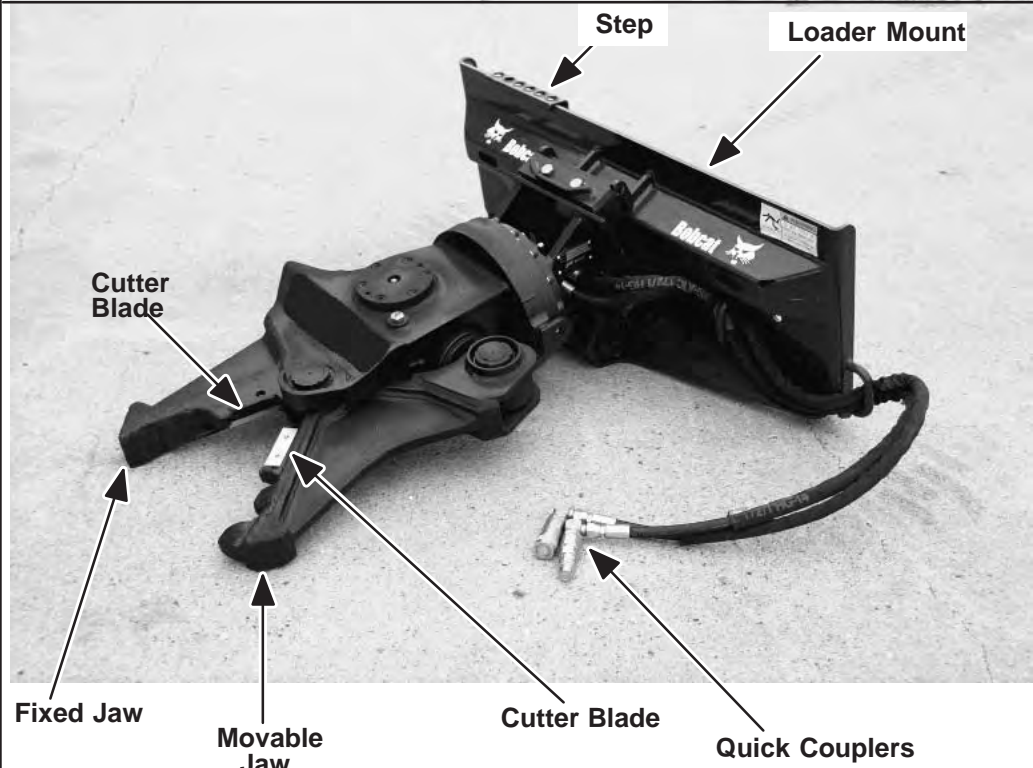
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SERIAL NUMBER LOCATION

Always use the serial number of the Cutter Crusher 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 operation [A].

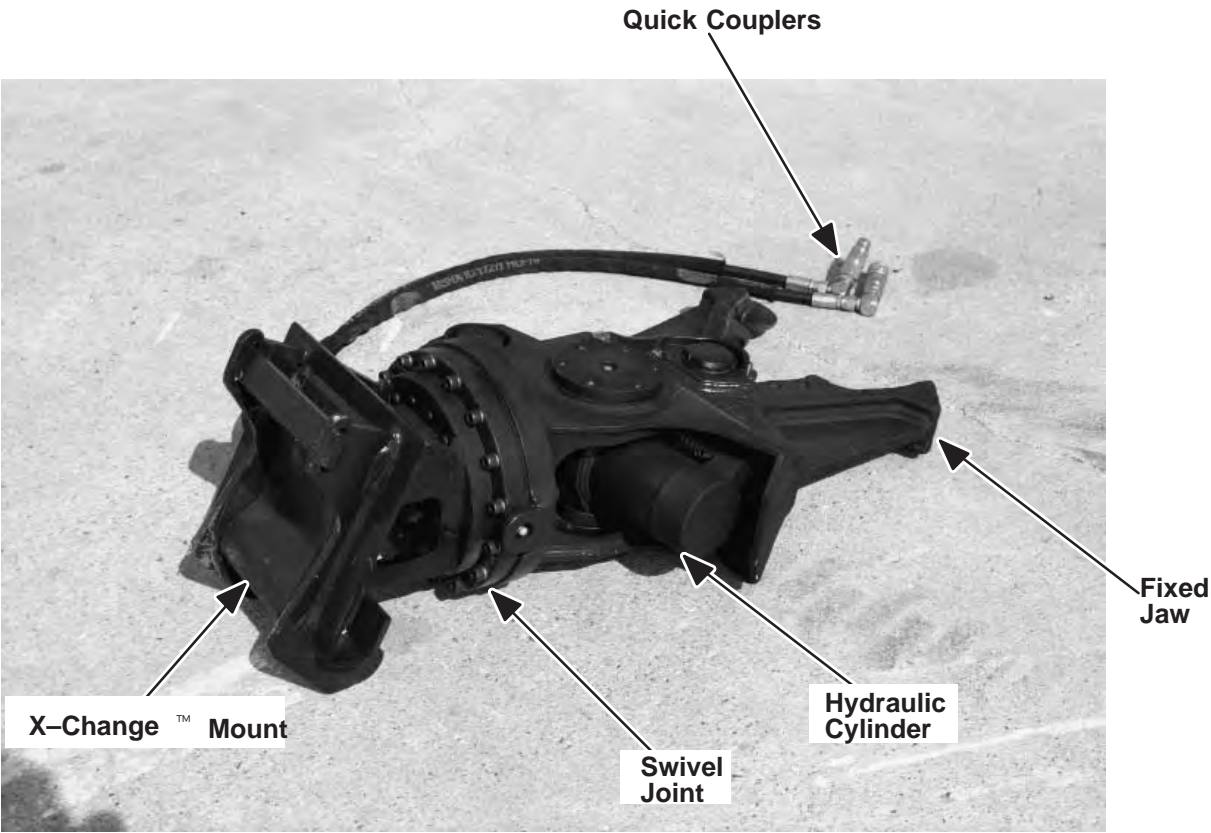
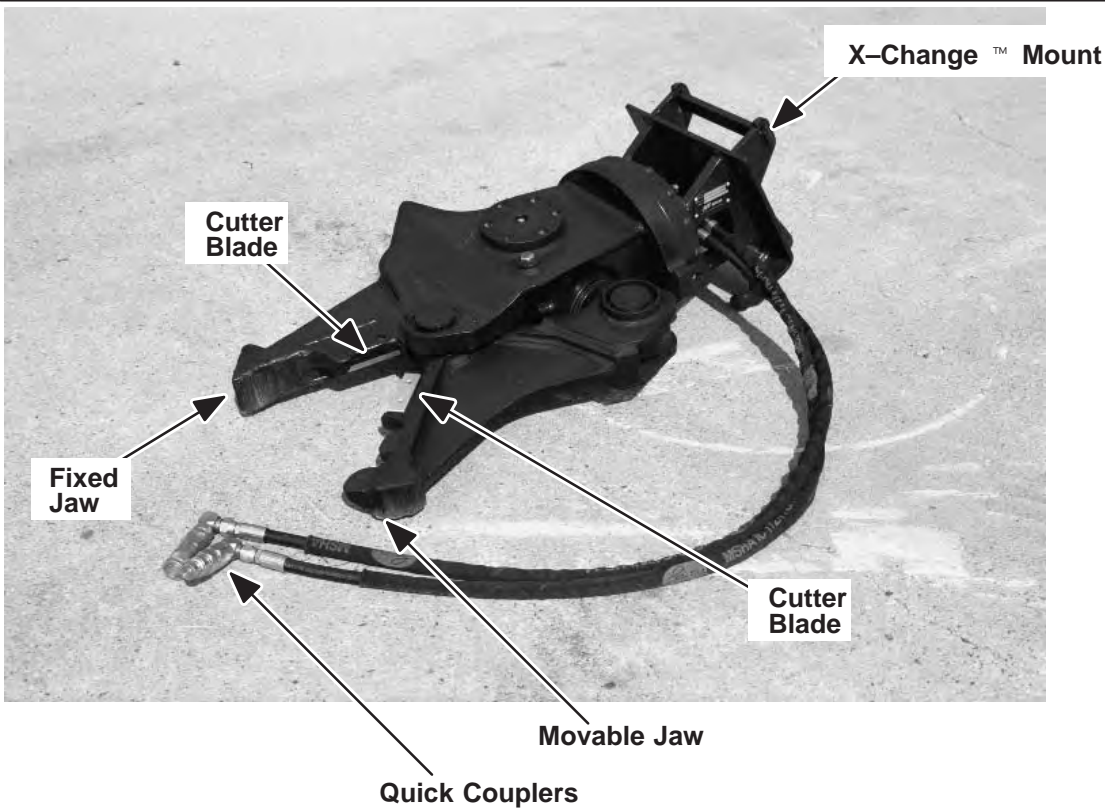


PARTS IDENTIFICATION
Loader Mount



P-18242
P-18244

PARTS IDENTIFICATION (Cont'd)
Excavator Mount



P-18239
P-18238



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SAFETY AND MAINTENANCE

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SAFETY AND MAINTENANCE



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TROUBLESHOOTING



WARNING

Instructions are necessary before operating or servicing machine, Read Operation & Maintenance Manual, 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. Failure to follow instructions can cause injury or death.

W-2003-0199

If the Cutter Crusher is not working correctly, check the hydraulic system of the Bobcat loader or excavator thoroughly before making any repairs on the crusher. Cutter Crusher problems can be affected by a hydraulic system that is not operating to specifications or such problems as a plugged fuel filter or hydraulic filter in the loader or excavator. Connect a flow meter to the loader or excavator to check the hydraulic pump output, relief valve setting and tubelines to check flow and pressure. (See the loader Service Manual for the correct procedure to connect the flowmeter.)

PROBLEM	CAUSE	CORRECTION
Cutter Crusher does not crush.	Loader or excavator main relief valve set too low.	Adjust main relief valve to correct setting.
	Loader or excavator fluid reservoir is low.	Add hydraulic fluid to the fluid reservoir on the loader or excavator.
	No hydraulic flow to the cutter crusher.	Check the hydraulic flow.
	Loader or excavator hydraulic pump not working..	Check flow of hydraulic pump. Repair or replace as needed.
	Worn crusher teeth.	Re-hard surface crusher jaw and teeth, replace teeth.
	Damaged quick couplers.	Replace quick couplers.
	Internal leakage of hydraulic cylinder.	Repair or replace hydraulic cylinder.
Cutter crusher does not cut.	Loader or excavator main relief valve set too low.	Adjust main relief valve to correct setting.
	Loader or excavator fluid reservoir is low.	Add hydraulic fluid to the fluid reservoir on the loader or excavator.
	No hydraulic flow to the cutter crusher.	Check the hydraulic flow.
	Loader or excavator hydraulic pump not working.	Check flow of hydraulic pump. Repair or replace as needed.
	Worn cutting blades.	Rotate or replace blades.
	Incorrect blade clearance.	Check and adjust blade clearance.
	Internal leakage of hydraulic cylinder.	Repair or replace hydraulic cylinder.
Crusher jaw does not move.	Loader or excavator main relief valve set too low.	Adjust main relief valve to correct setting.
	Excessive back pressure.	Check for plugged or bent return lines.
	Crusher jaw blocked.	Remove debris from jaw.
	Damaged quick couplers.	Replace quick couplers.
	Internal leakage of hydraulic cylinder.	Repair or replace hydraulic cylinder.
	Hydraulic cylinder rod bent.	Repair or replace hydraulic cylinder.
	Loader or excavator fluid reservoir is low.	Add hydraulic fluid to the fluid reservoir on the loader or excavator.
Excessive jaw movement.	Worn pins and bushings.	Replace pins and bushings.

INSPECTION

Hand Lever Bob-Tach Inspection

Move the Bob-Tach levers to engage the wedges **[A]**. The levers and wedges must move freely.

The wedges must extend through the holes in the attachment mounting frame (Item 1) **[A]**.



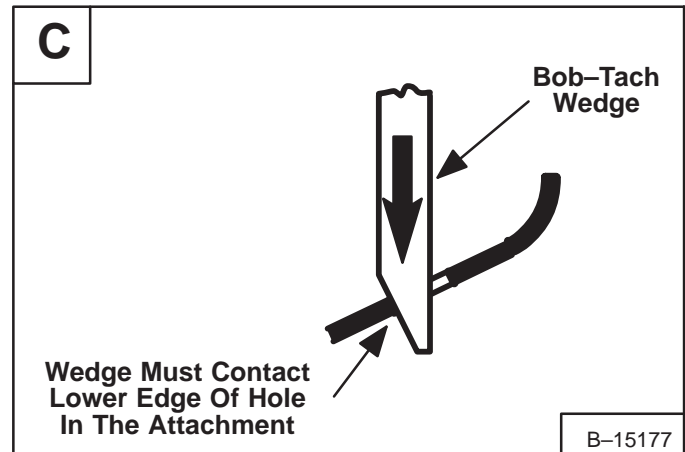
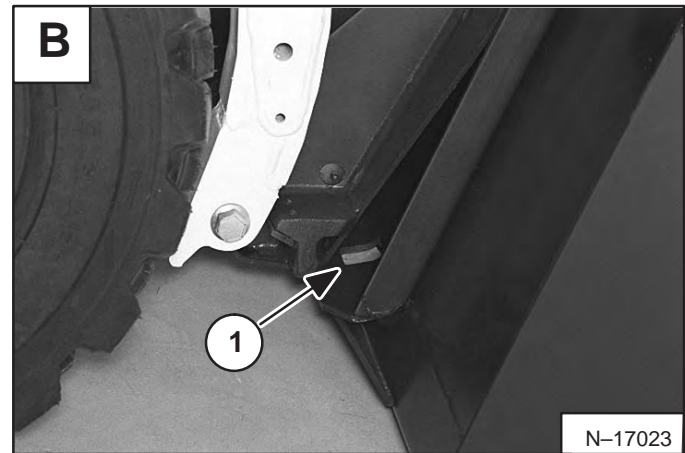
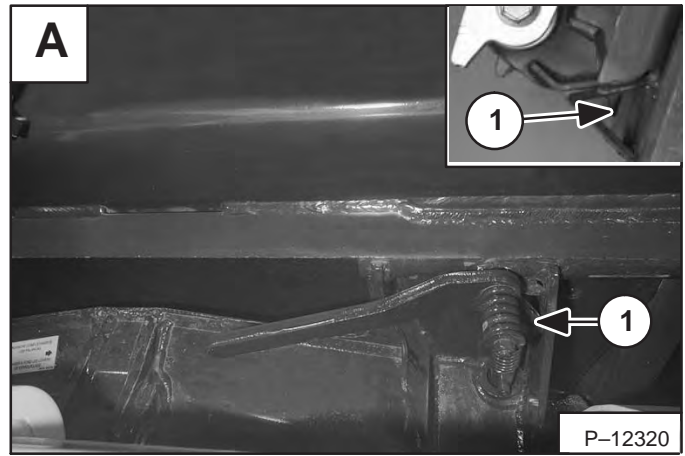
WARNING

Bob-Tach wedges must extend through the holes in attachment. Lever(s) must be fully down and locked. Failure to secure wedges can allow attachment to come off and cause injury or death.

W-2102-0497

The spring loaded wedge (Item 1) **[A]** must contact the lower edge of the hole in the attachment (Item 1) **[B]** and **[C]**.

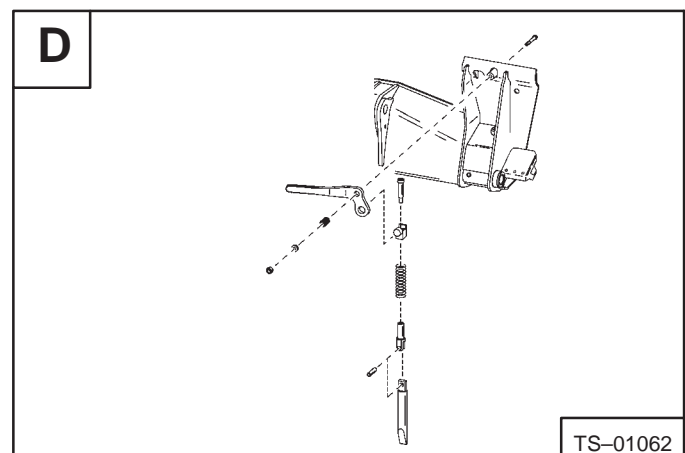
If the wedge does not contact the lower edge of the hole **[B]** and **[C]**, the attachment will be loose and can come off the Bob-Tach.



Inspect the mounting frame on the attachment and the Bob-Tach, linkages and wedges for excessive wear or damage **[D]**. Replace any parts that are damaged, bent, or missing. Keep all fasteners tight.

Look for cracked welds. Contact your Bobcat dealer for repair or replacement parts.

Lubricate the wedges (See the correct loader Service Manual for *LUBRICATION OF THE BOBCAT LOADER*).



INSPECTION(Cont'd)

Power Bob-Tach Inspection

Push and hold the Bob-Tach “WEDGES UP” switch [A] until wedges are fully raised. Push and hold the Bob-Tach “WEDGES DOWN” switch [A] until the wedges are fully down. The wedges must move freely.

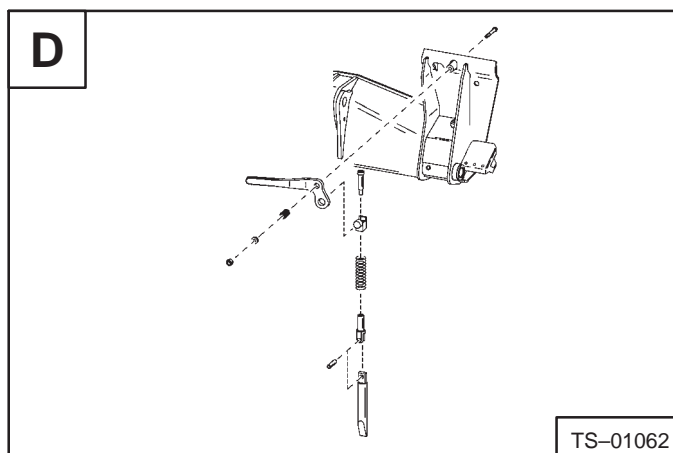
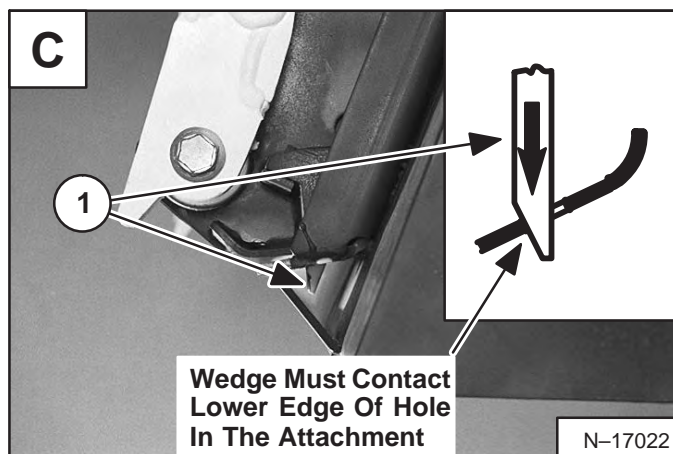
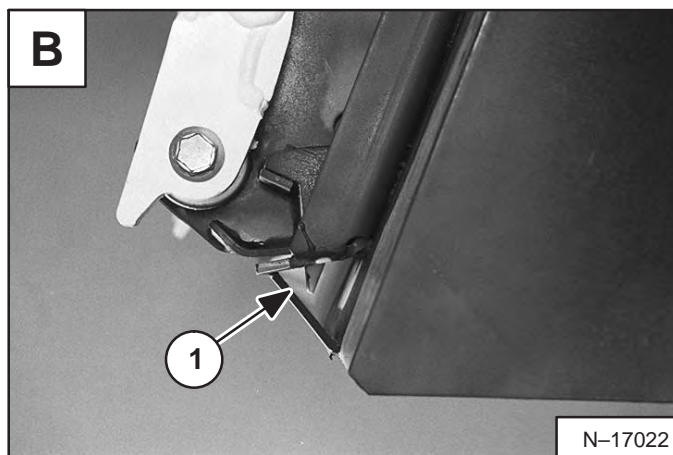
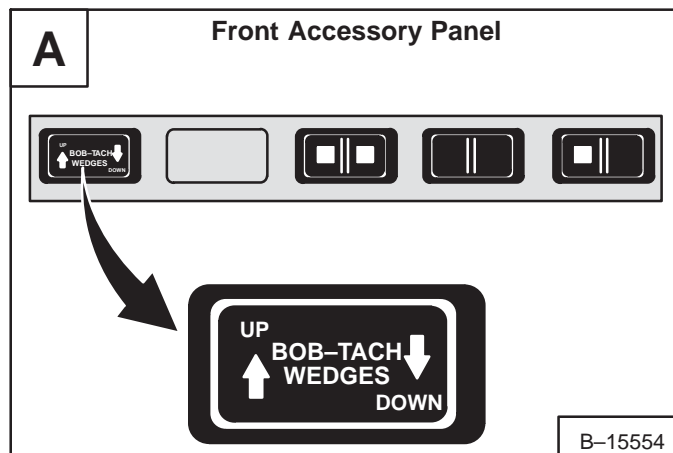
The wedges must extend through the holes in the attachment mounting frame (Item 1) [B] and must contact the lower edge of the hole in the attachment [B] and (Item 1) [C].

If the wedge does not contact the lower edge of the hole [C], the attachment will be loose and can come off the Bob-Tach.

Inspect the mounting frame on the attachment and the Bob-Tach, linkages and wedges for excessive wear or damage [D]. Replace any parts including decals and levers that are damaged, bent or missing. Keep all fasteners tight. Inspect the hoses and fittings for leaks.

Look for cracked welds. Contact your Bobcat dealer for repair or replacement parts.

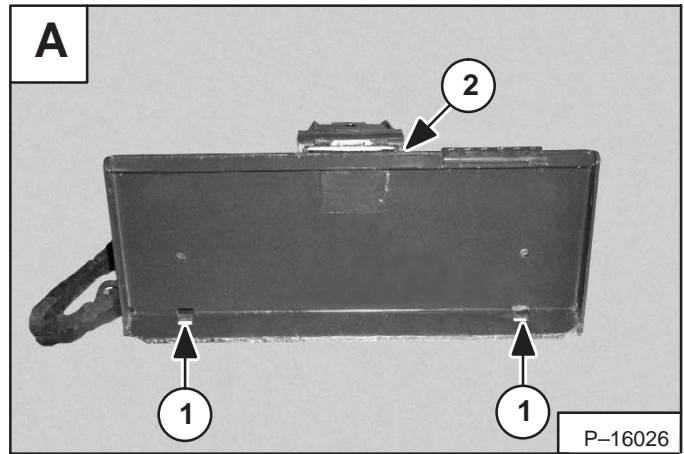
Lubricate the wedges. (See the correct loader Service Manual for *LUBRICATION OF THE BOBCAT LOADER*.)



INSPECTION (Cont'd)

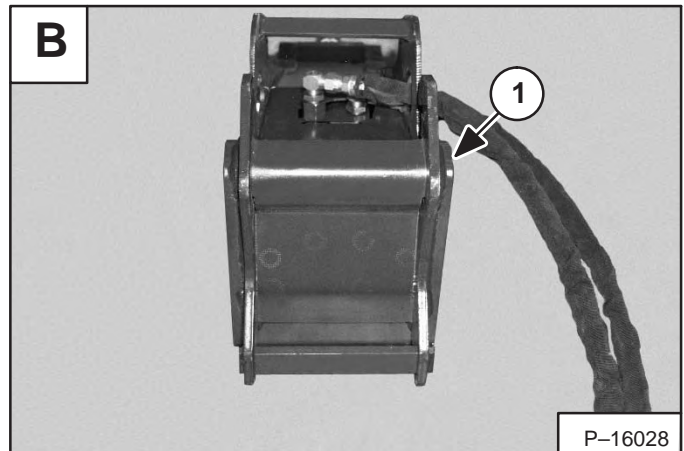
Loader Mount Inspection

Inspect the Bob-Tach wedge mounts (Item 1) **[A]**, mounting flange (Item 2) **[A]**, and all welds on the attachment mount for wear and damage each time the attachment is removed from the loader.



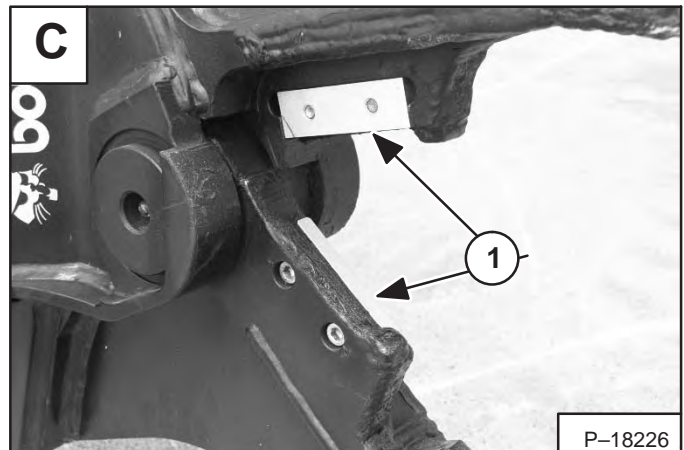
Excavator Mount Inspection

Inspect the X-Change™ mount (Item 1) **[B]** and all welds on the mount for wear and damage each time the attachment is removed from the excavator or from the loader mount.

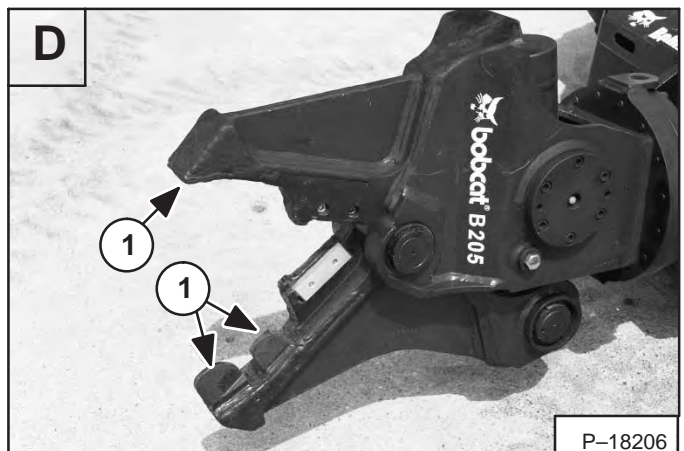


Daily Inspection

Inspect the cutting blades (Item 1) **[C]** for wear or damage. Rotate or replace the blades when the cutting edges have a radius of 0.15 inches (4 mm). (See page 10-10-6.)



Inspect the crusher jaws and teeth (Item 1) **[D]** for wear or damage. Re-hard surface or replace the teeth as needed. (See page 46.)



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