



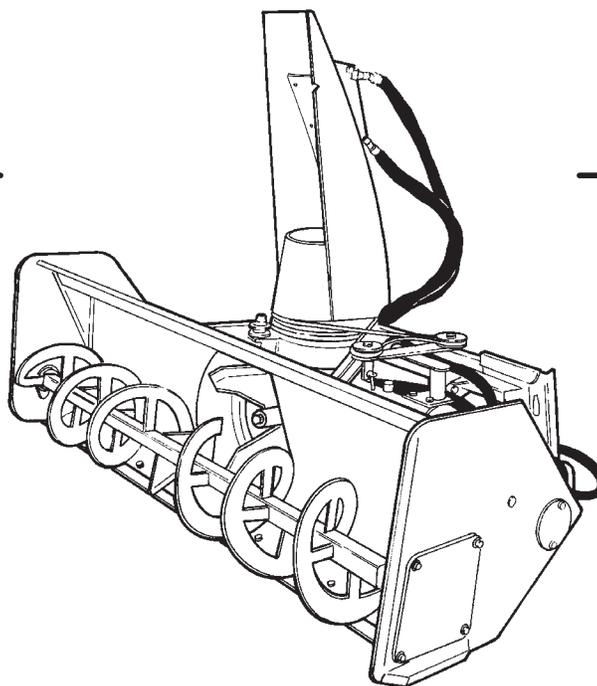
**Bobcat**®

# Snow Blower

Model 1412  
Model 1812  
Model 2118  
Model 2418

# Service Manual

S/N 715700101 & Above  
S/N 711700101 & Above  
S/N 711800101 & Above  
S/N 711900101 & Above  
S/N 712000101 & Above  
S/N 712100101 & Above  
S/N 712200101 & Above  
S/N 712300101 & Above  
S/N 712400101 & Above  
S/N 712500101 & Above  
S/N 712600101 & Above



Product: 2001 Bobcat Front Compact Tractor Snowblower Model 1412/Model 1812/Model 2118/Model 2418 Service Repair Workshop Manual  
Full Download: <https://www.arepairmanual.com/downloads/2001-bobcat-front-compact-tractor-snowblower-model-1412-model-1812-model-2118-model-2418-service-repair-workshop-manual/>

Sample of manual. Download All 282 pages at:  
<https://www.arepairmanual.com/downloads/2001-bobcat-front-compact-tractor-snowblower-model-1412-model-1812-model-2118-model-2418-service-repair-workshop-manual/>

# 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.



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**

**ELECTRICAL  
SYSTEM**

**MAIN  
FRAME**

**SPECIFICATIONS  
AND  
SCHEMATICS**

**CALIFORNIA  
PROPOSITION 65 WARNING**

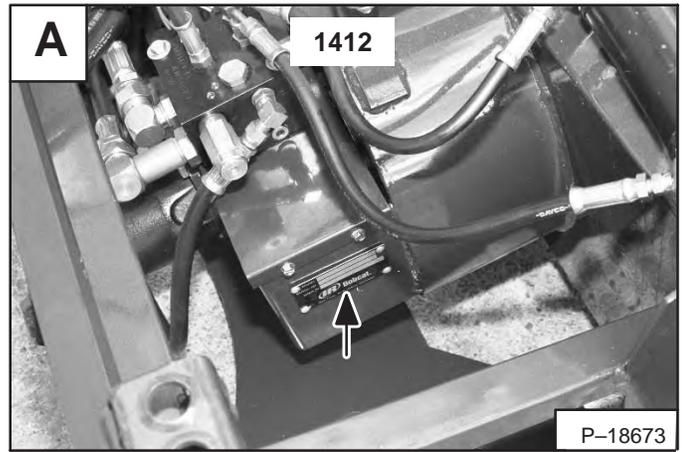
Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.



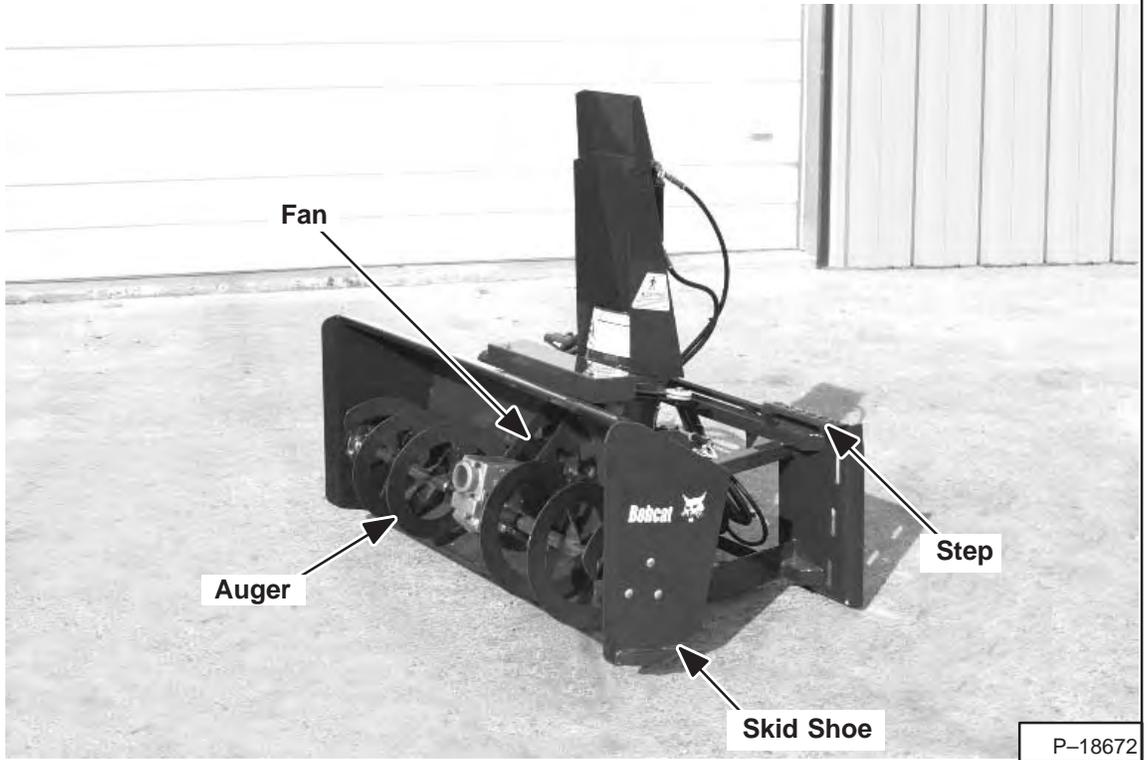
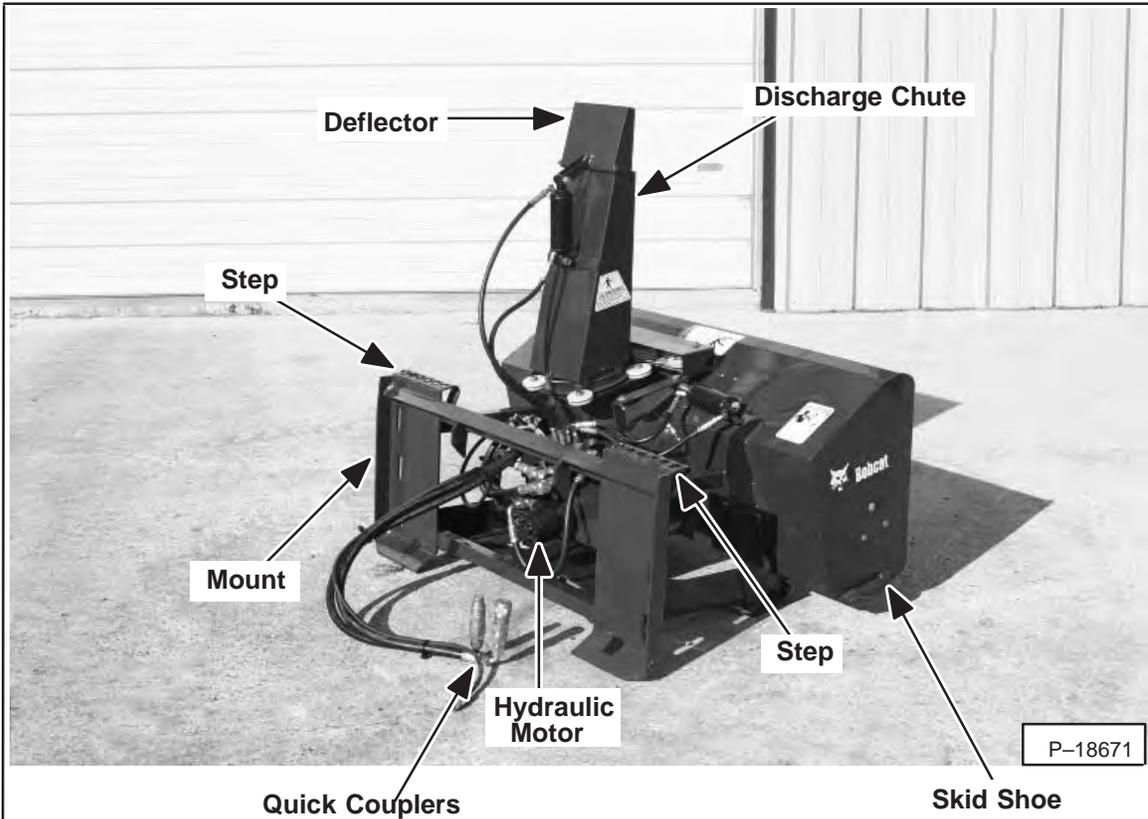
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## SERIAL NUMBER LOCATION

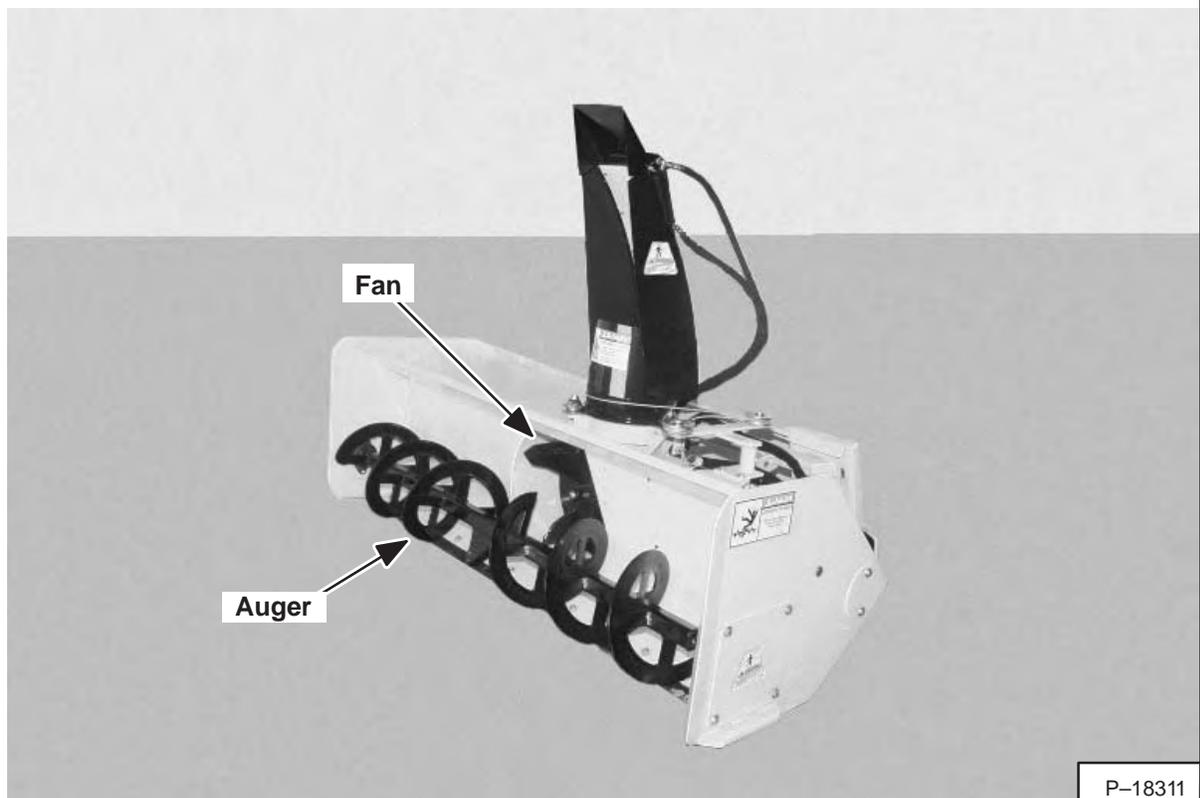
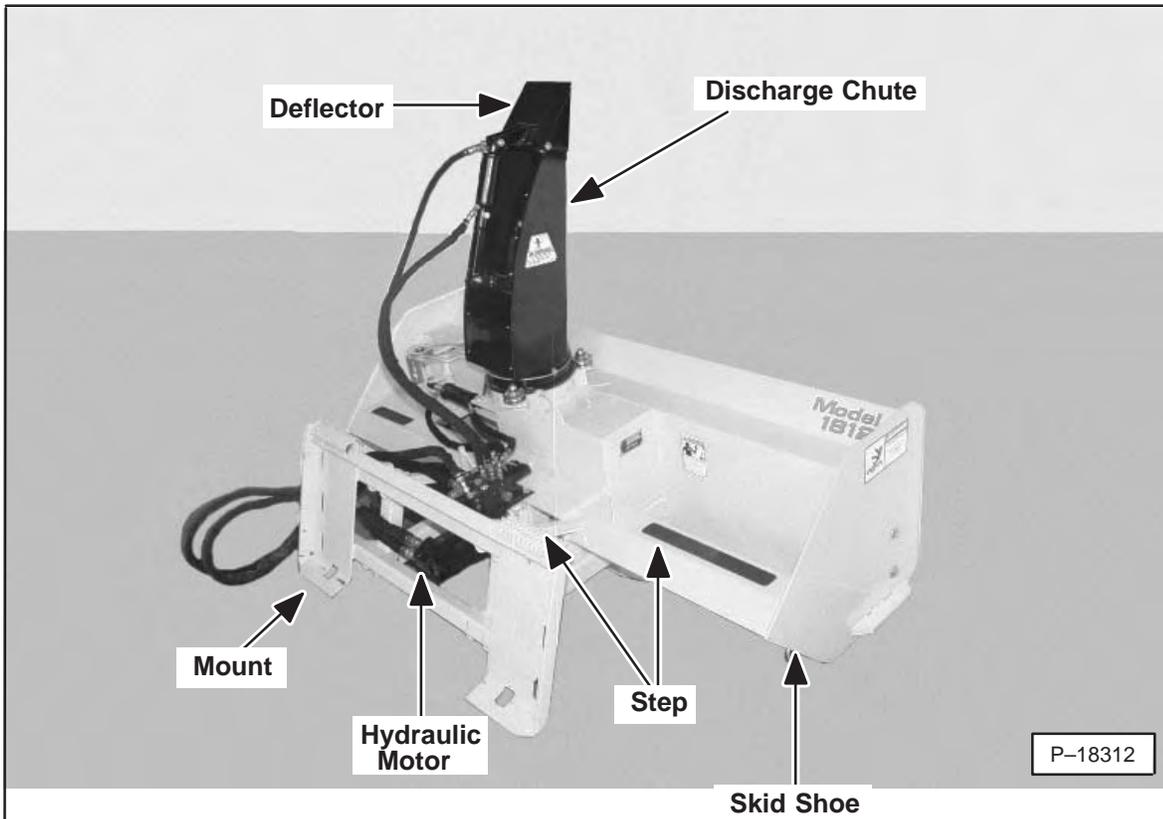
Always use the serial number of the attachment when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation [A], [B] and [C].



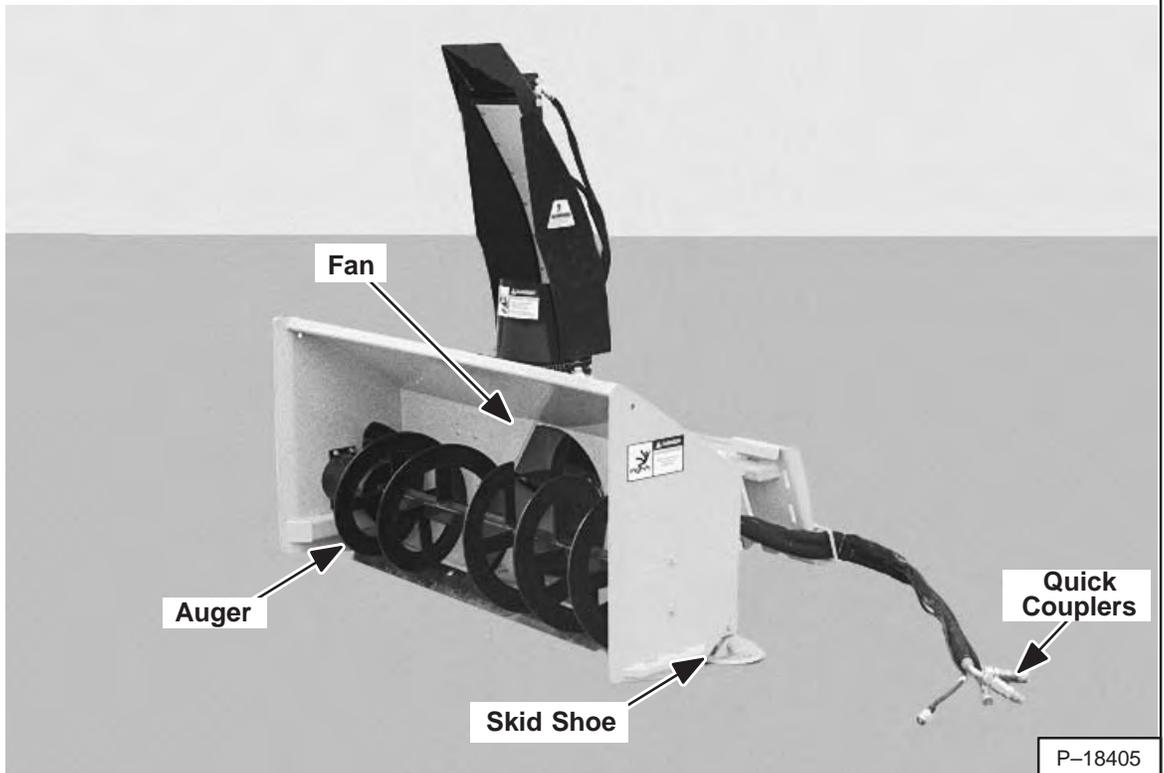
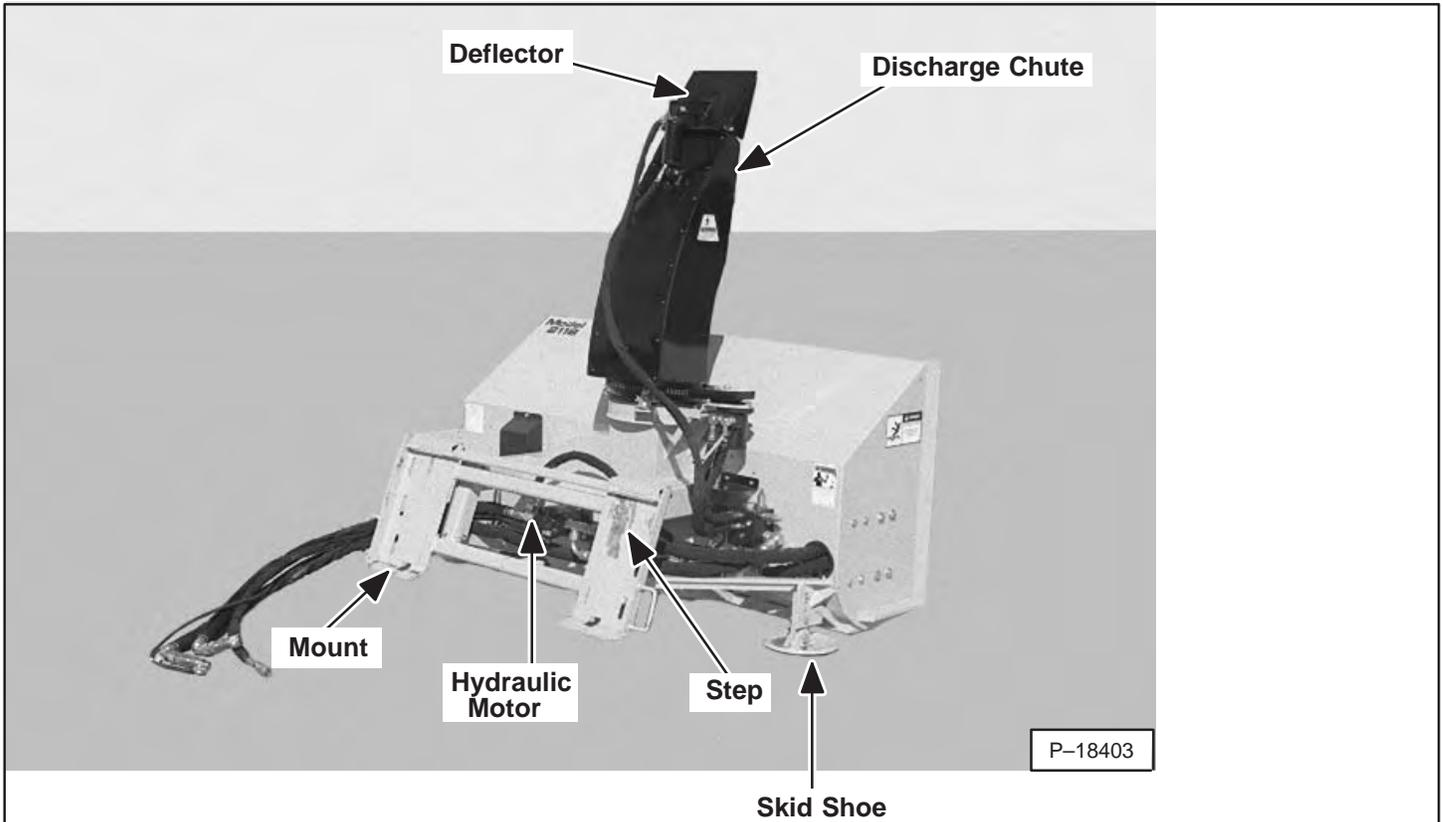
PARTS IDENTIFICATION (MODEL 1412)



PARTS IDENTIFICATION (MODEL 1812)



PARTS IDENTIFICATION (MODEL 2118/2418)



## 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 and understand the 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. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0199

If the attachment is not working correctly, check the hydraulic system of the Bobcat loader thoroughly before making any repairs on the attachment. Attachment 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. Connect a flow meter to the loader 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 flow meter.)

PROBLEM	CAUSE	CORRECTION
Snow Blower does not operate.	Loader main relief valve set too low.	Adjust main relief valve to correct setting.
	Loader fluid reservoir is low.	Add hydraulic fluid to the fluid reservoir on the loader.
	No hydraulic flow to the snow blower.	Check the hydraulic flow.
	Loader hydraulic pump not working.	Check flow of hydraulic pump. Repair or replace as needed.
	Attachment control wire harness damaged.	Repair or replace wire harness.
	Damaged quick couplers.	Replace quick couplers.
	Auxiliary hydraulics not engaged.	Engage auxiliary hydraulics.
Auger does not rotate.	Broken auger shear pin.	Replace shear pin.
	Auger drive chain damaged or broken.	Repair or replace auger drive chain.
	Auger relief valve set too low. (Model 2118/2418 only)	Set relief valve to higher pressure.
Chute does not rotate.	Damaged cylinder, motor or actuator.	Repair or replace cylinder, motor or actuator.
	Loose or broken chute rotation cable or chain.	Replace or adjust chute rotation cable or chain.
	Damaged wire harness.	Repair or replace wire harness.
	Damaged solenoid or relay.	Replace solenoid or relay.
Deflector does not adjust.	Damaged cylinder or actuator.	Repair or replace cylinder, or actuator.
	Damaged solenoid or relay.	Replace solenoid or relay.
Snow Blower cuts too low/too high. (Models 1812/2118/2418)	Skid shoes out of adjustment.	Raise or lower skid shoes as needed.



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## 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].

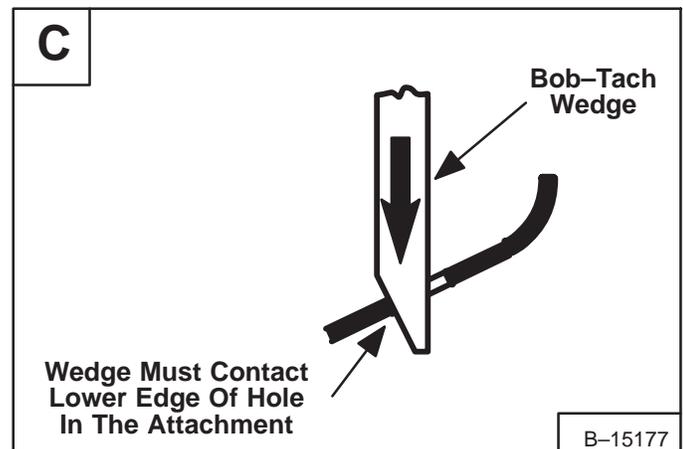
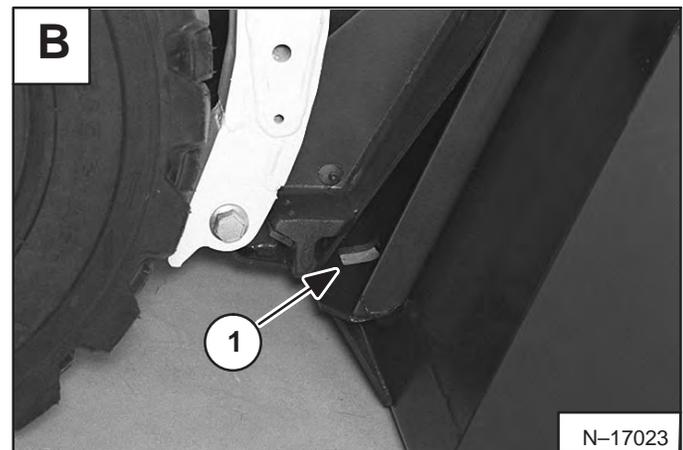
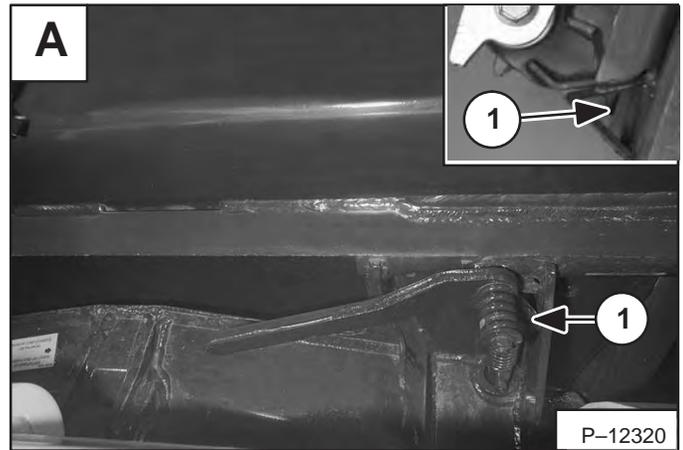
## WARNING

**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.**

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

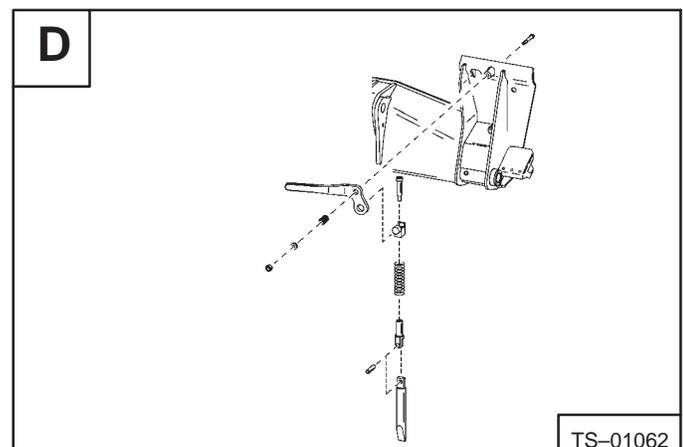
If the wedge does not contact the lower edge of the hole [B] and [C], the attachment will be loose and can come off the Bob-Tach.



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.

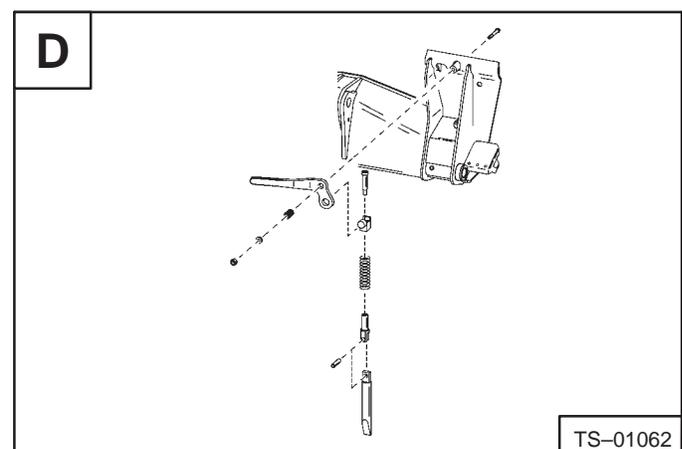
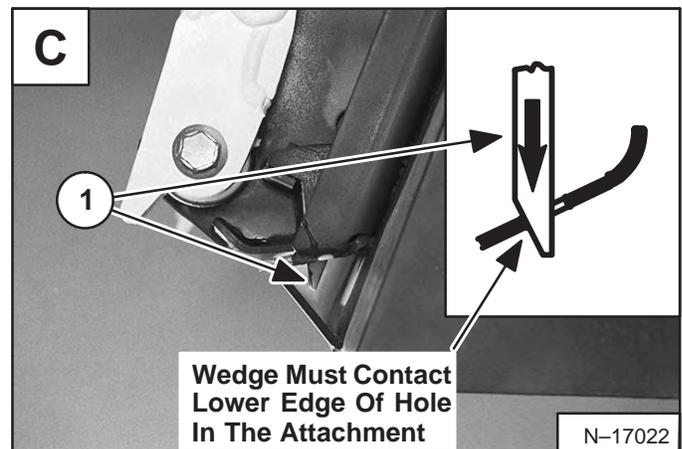
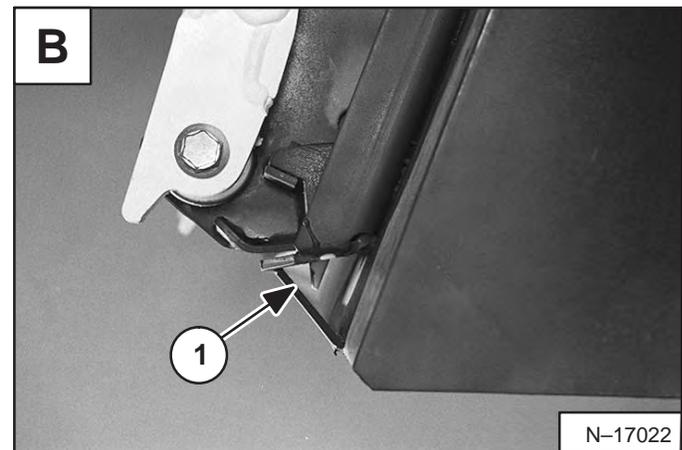
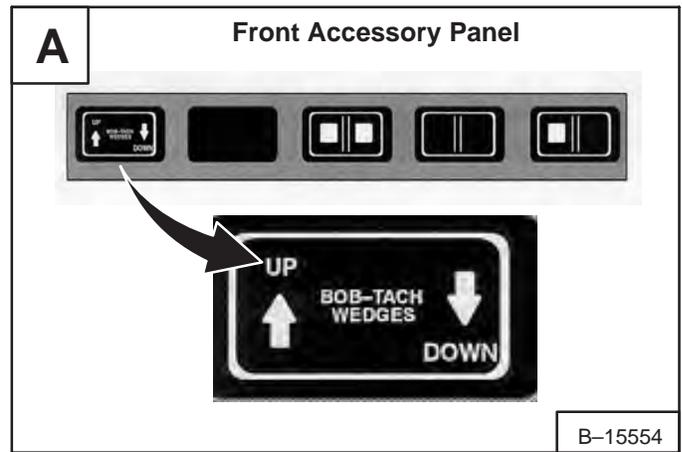
The wedges must extend through the holes in the attachment mounting frame (Item 1) [B] and must contact the lower edge of the hole in the attachment [B] and (Item 1) [C].

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 lever 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

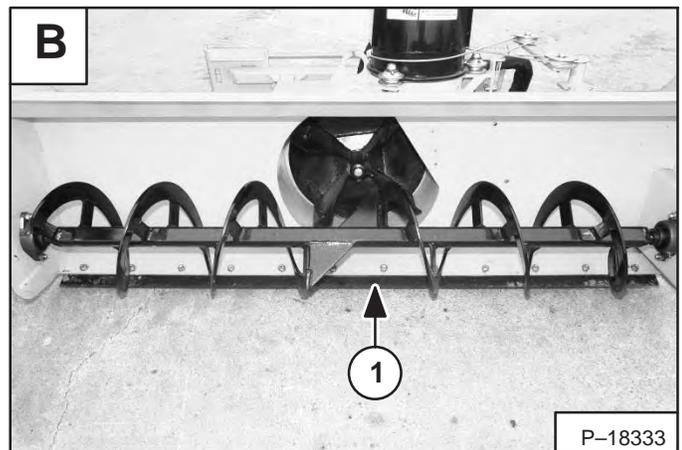
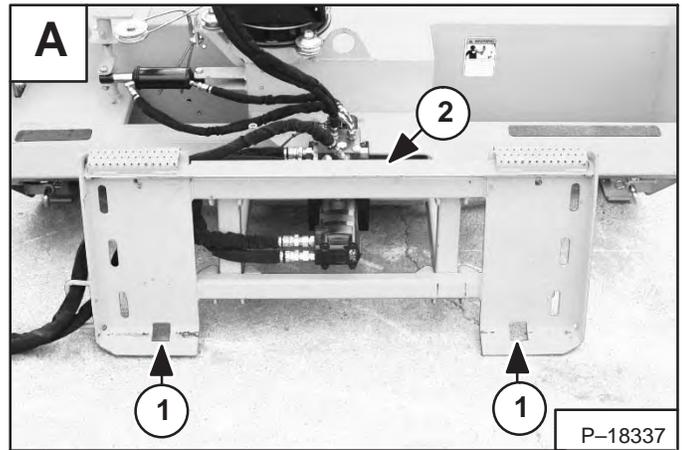
Inspect the Bob-Tach wedge mounts (Item 1) [A], mounting flange (Item 2) [A], and all welds on the attachment mount for wear and damage each time the attachment is removed from the loader.

### Daily Inspection

Inspect all welds for cracks/damage. Check for loose or missing hardware.

Inspect the cutting edge (Item 1) [B] for wear and/or damage.

**NOTE: Model 1812 is shown, other models are similar.**





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## LUBRICATION

### Lubrication Points (Model 1412)

**Every 6 hours** lubricate the chute roller guides (Item 1) [A] and the cable guides (Item 2) [A] with a silicone based penetrating oil.

# IMPORTANT

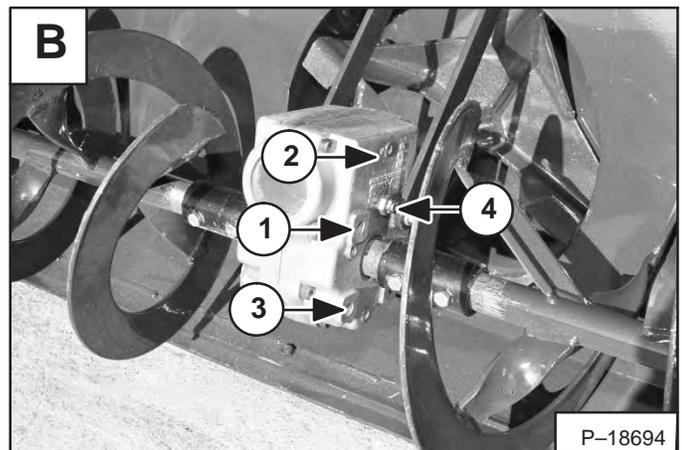
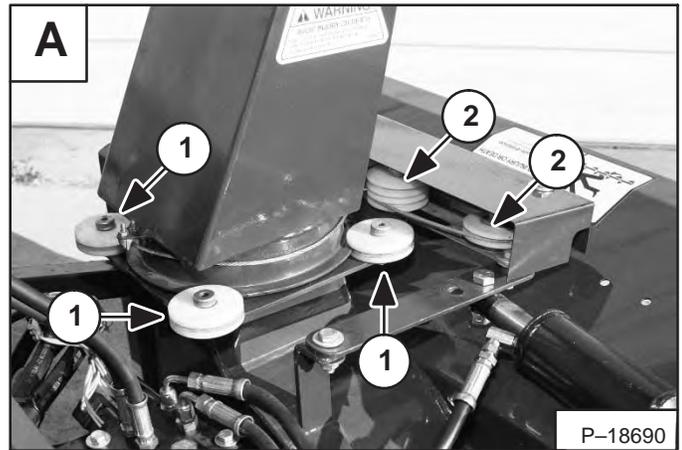
Fluid such as engine oil, hydraulic fluid, coolants, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

I-2067-0499

**Weekly:** Remove the check plug (Item 1) [B]. Oil must drain from the gear box. Remove the top plug (Item 2) [B] and add SAE 80W-90 gear oil until the oil level is at the bottom of the check plug hole (Item 1) [B].

Change the gear box oil every 36 months or every 12 months if the snow blower has been used under extremely severe working conditions. Remove the drain plug (Item 3) [B] to drain the gear box.

When changing oil in the gear box, remove, clean and reinstall the gear box vent (Item 4) [B].



## LUBRICATION

### Lubrication Points (Model 1812)

Always use a good quality lithium base grease when lubricating the attachment. 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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Every 6 hours lubricate the following grease fittings.

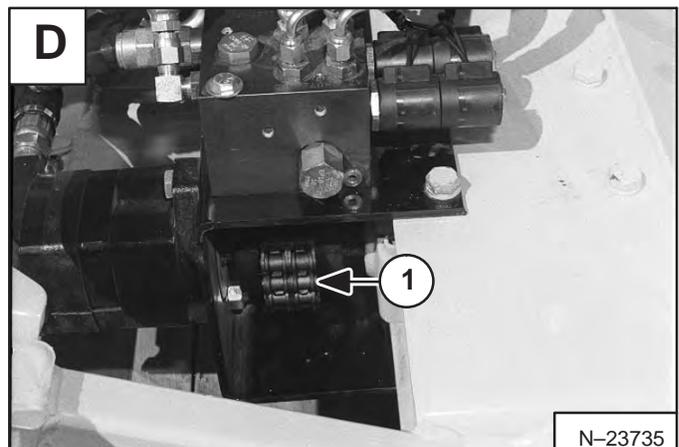
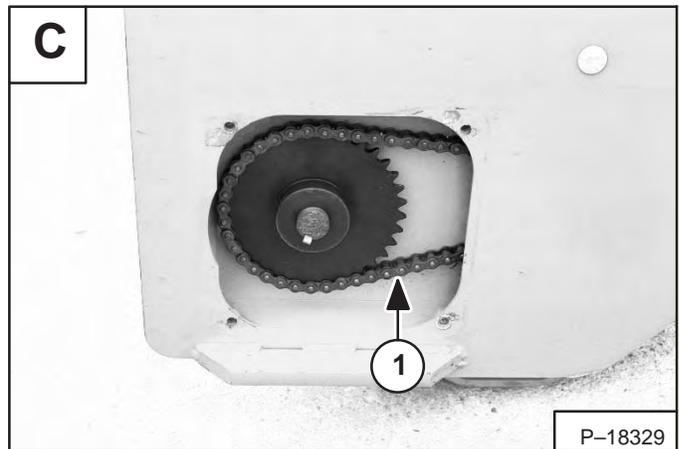
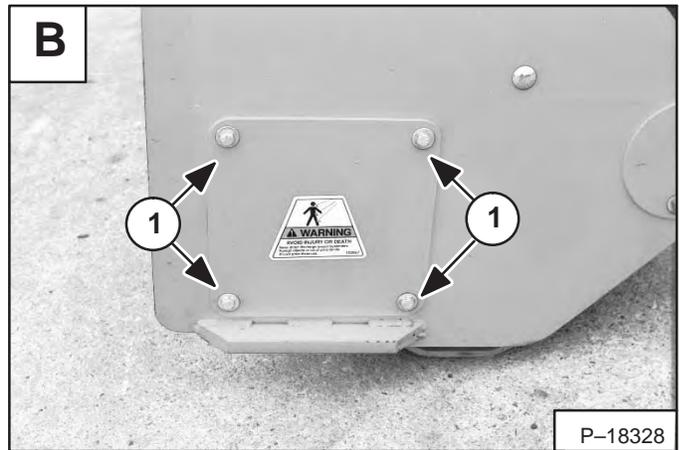
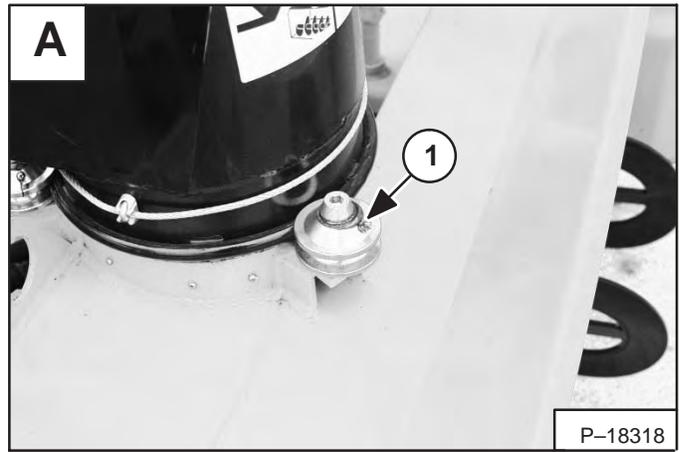
Three chute guide rollers (Item 1) [A].

Remove the four bolts (Item 1) [B] and cover.

Every 6 hours apply clean engine oil or chain lubricant to the auger drive chain (Item 1) [C].

Install the cover and bolts after lubricating the auger chain. Tighten the bolts to 25–28 ft.-lbs. (34–38 Nm) torque.

Every 30 hours use clean engine oil or chain lubricant and lubricate the motor coupler chain (Item 1) [D].



## LUBRICATION (Cont'd)

### Lubrication Points (Model 1812) (Cont'd)

# 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.

I-2067-0499

Every 30 hours lubricate the following grease fittings.

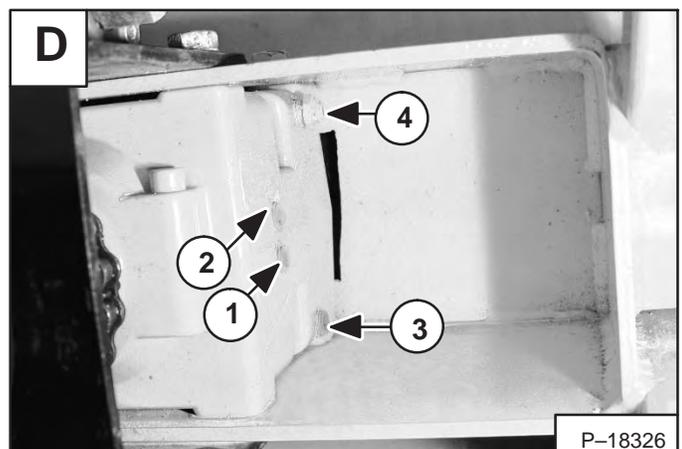
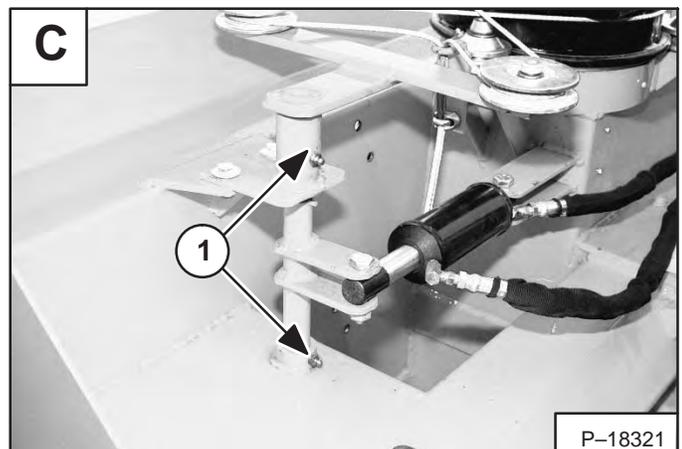
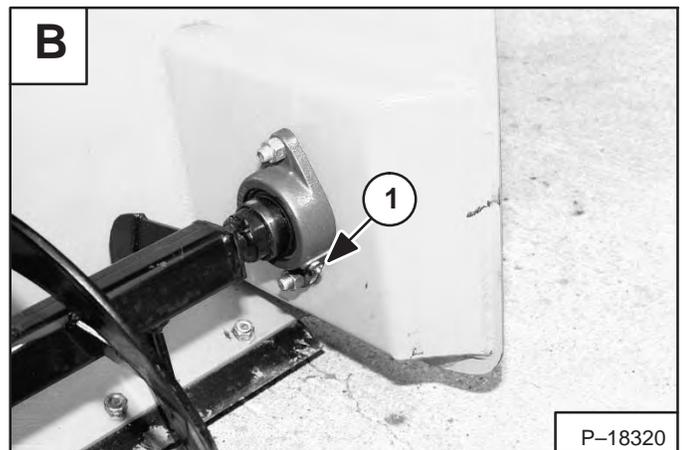
Both ends of the auger (Item 1) [A] & [B].

Chute rotation assembly (2 fittings) (Item 1) [C].

**Weekly:** Remove the check plug (Item 1) [D]. Oil must drain from the gear box. Remove the top plug (Item 2) [D] and add SAE 80W-90 gear oil until the oil level is at the bottom of the check plug hole (Item 1) [D].

Change the gear box oil every 36 months or every 12 months if the snow blower has been used under extremely severe working conditions. Remove the drain plug (Item 3) [D] to drain the gear box .

When changing oil in the gear box, remove, clean and reinstall the gear box vent (Item 4) [D].



## LUBRICATION (Cont'd)

### Lubrication Points (Model 1812) (Cont'd)

# IMPORTANT

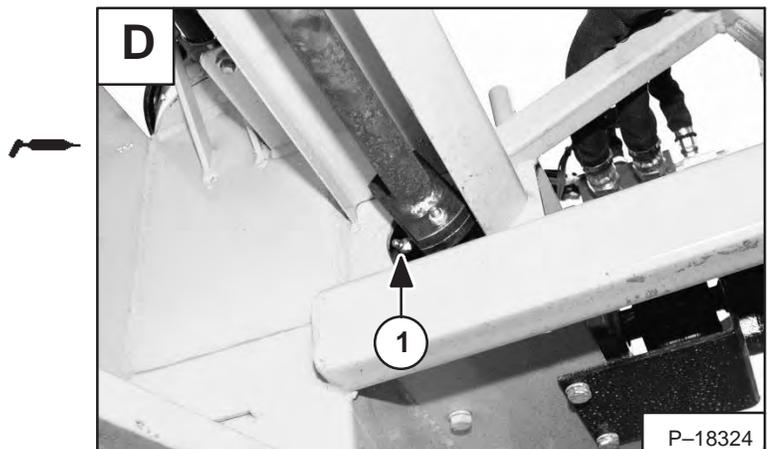
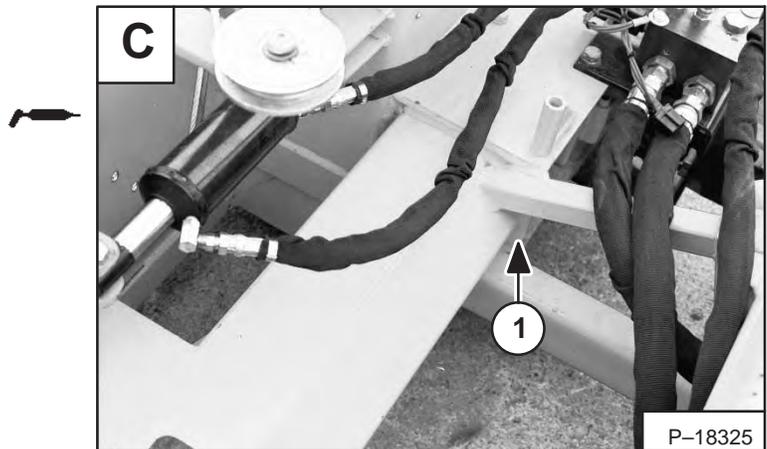
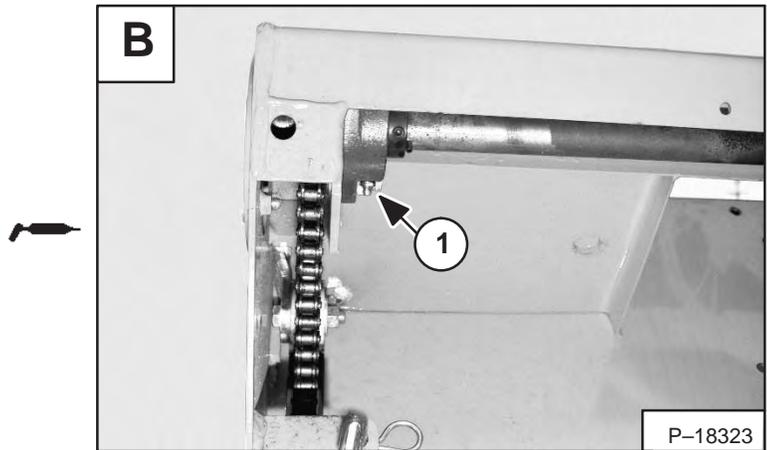
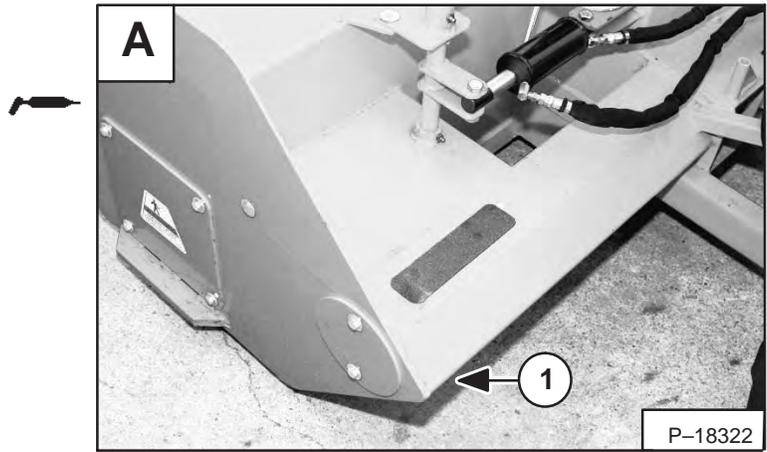
Fluid such as engine oil, hydraulic fluid, coolants, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

I-2067-0499

Every 30 hours lubricate the following grease fittings.

Auger drive shaft bearing (Item 1) [A] & [B].

Auger drive coupler (2 fittings) (Item 1) [C] & [D].



## LUBRICATION

### Lubrication Points (Model 2118/2418)

Always use a good quality lithium base grease when lubricating the attachment. 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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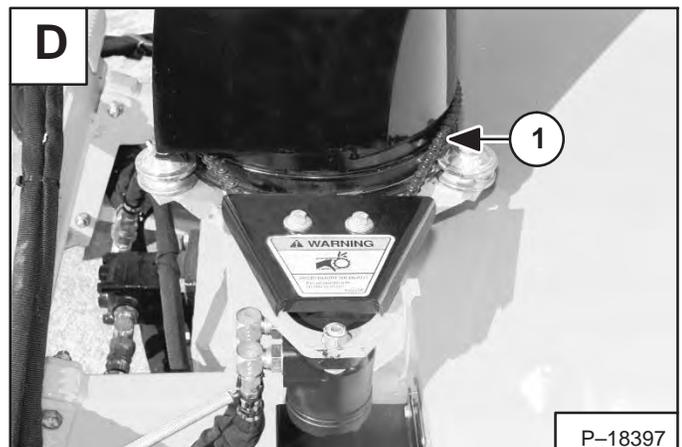
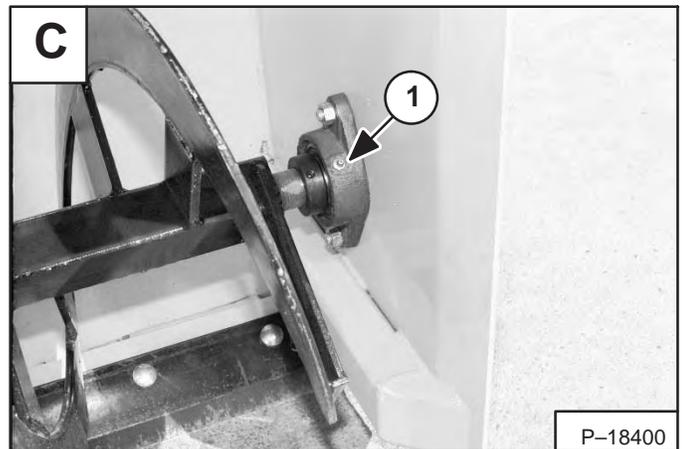
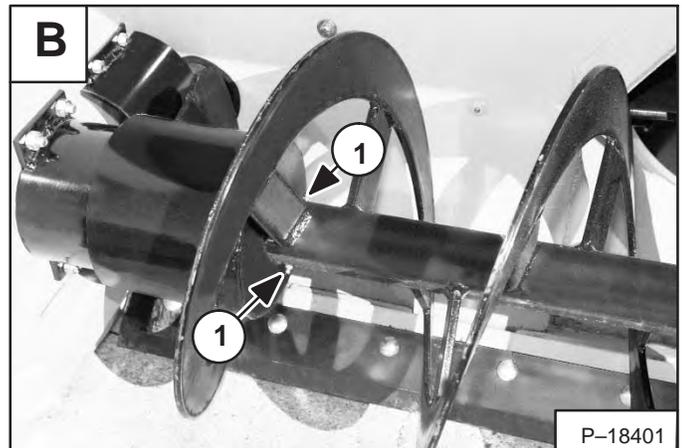
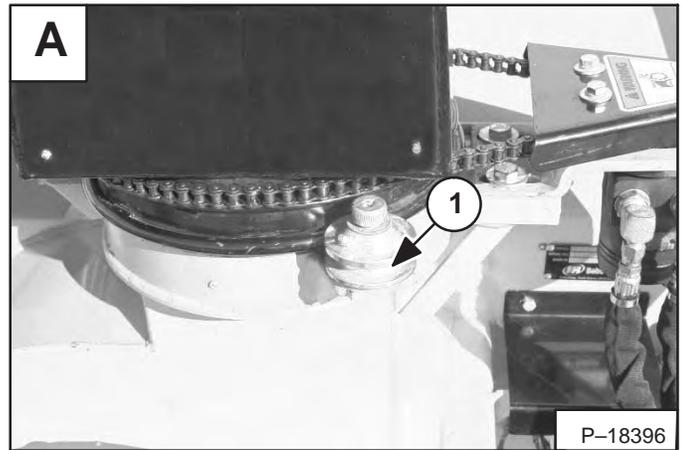
**Every 6 hours** lubricate the following grease fittings.

Three chute guide rollers (Item 1) [A].

Auger drive coupler (Item 1) [B].

Auger bearing (Item 1) [C].

**Every 6 hours** apply clean engine oil or chain lubricant to the chute rotation drive chain (Item 1) [D].





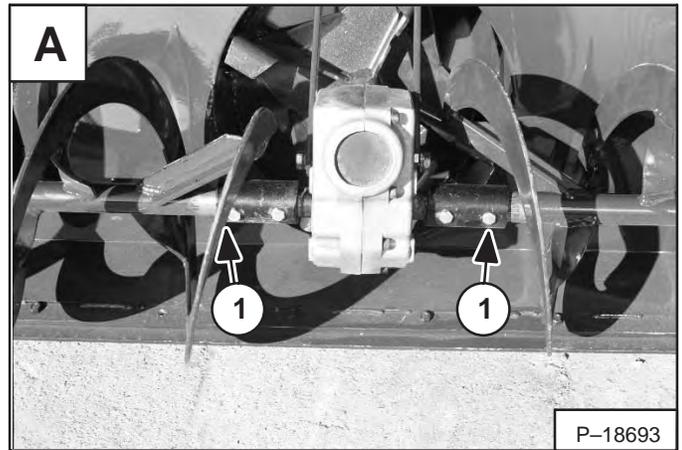
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## AUGER SHEAR BOLT

### Shear Bolt Replacement (Model 1412)

The auger drive is protected by shear bolts in the event the auger strikes a solid object. The auger shear bolts (Item 1) [A] are located on either side of the gear box.

Install a 5/16 x 2-1/4 inch NC grade 2 bolt and lock nut. Tighten the nut to 10-12 ft.-lbs. (14-16 Nm) torque.

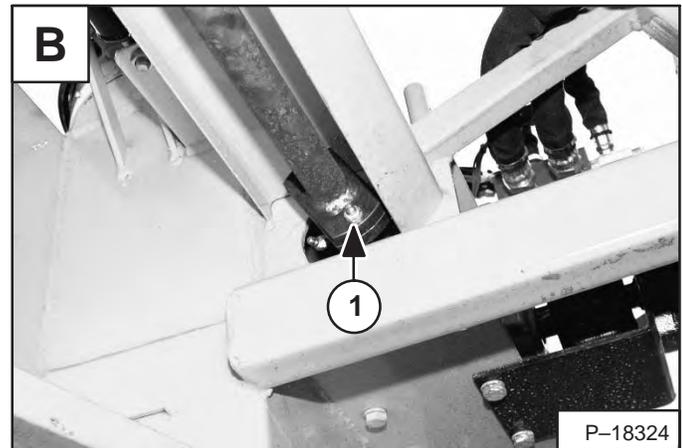


## AUGER SHEAR BOLT

### Shear Bolt Replacement (Model 1812)

The auger drive is protected by a shear bolt in the event the auger strikes a solid object. The auger shear bolt (Item 1) [B] is located under the shield on the left side of the gear box.

Install a 5/16 x 1-1/2 inch NC grade 2 bolt and lock nut. Tighten the nut to 10-12 ft.-lbs. (14-16 Nm) torque.



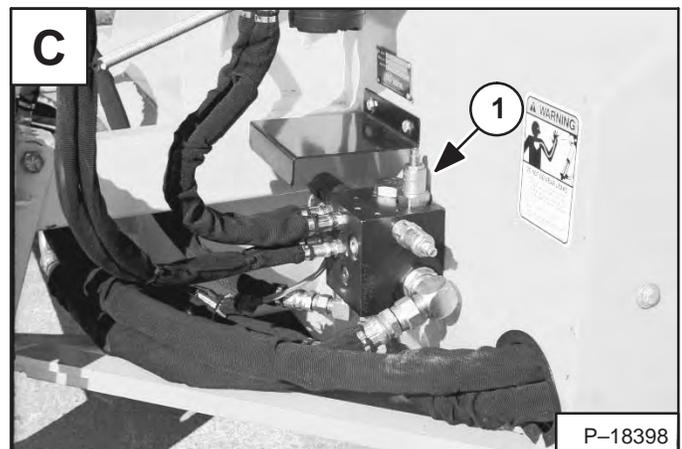
## AUGER HYDRAULIC RELIEF VALVE

### Relief Valve Adjustment (Model 2118/2418)

The Model 2118/2418 does not have a shear bolt. The auger drive is protected by the pressure relief valve (Item 1) [C] in the event the auger strikes a solid object.

**NOTE: The auger relief valve is set at the factory to assure the best performance in average conditions. If the auger stalls easily, the relief valve can be adjusted. (See Hydraulic Relief Valve Model 2118/2418 Auger Relief Valve Adjustment Page 20-01.)**

Do not adjust the relief valve more than one turn at a time or a total of more than 4 turns.



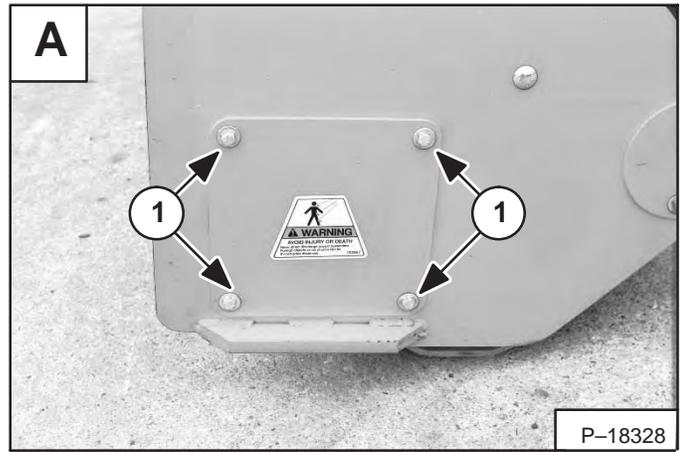


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## AUGER DRIVE CHAIN

### Drive Chain Adjustment (Model 1812)

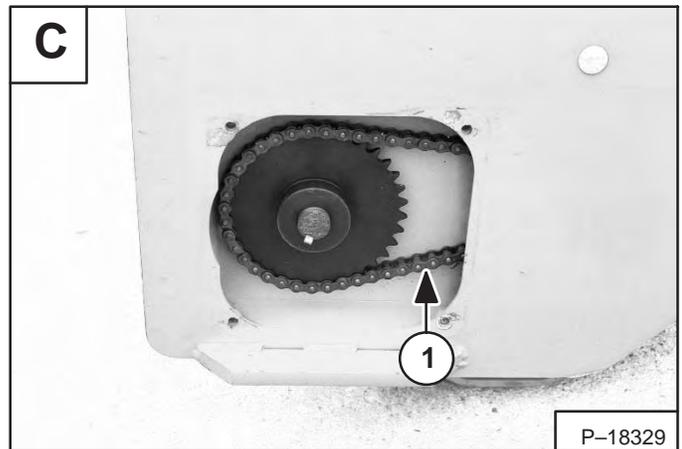
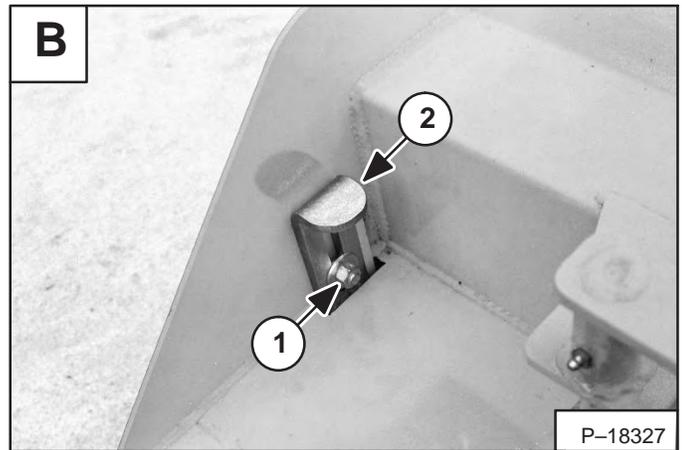
Remove the four bolts (Item 1) [A] and cover.



Loosen the nut (Item 1) [B] and push down on the chain tensioner bracket (Item 2) [B] until all the slack is removed from the chain (Item 1) [C].

**NOTE: Do not overtighten the roller chain. tighten the bracket only enough to remove any chain slack.**

Install the cover and four bolts (Item 1) [A]. Tighten the bolts to 25–28 ft.-lbs. (34–38 Nm) torque.



## AUGER DRIVE CHAIN (Cont'd)

### Drive Chain Replacement (Model 1812)

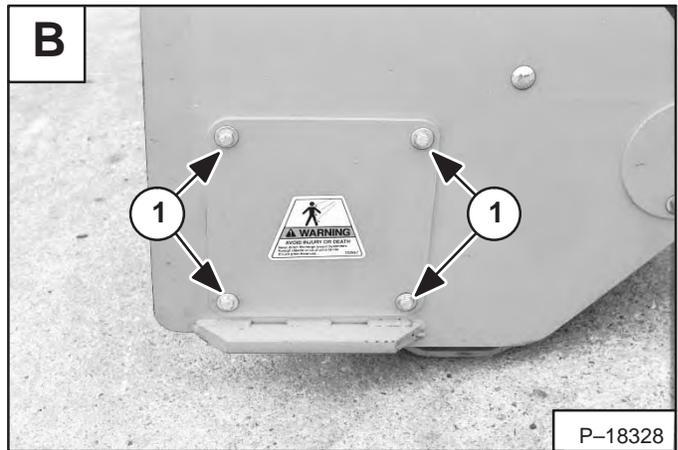
Loosen the chain tensioner bracket bolt (Item 1) [A].

**Installation:** Tighten the bolt to 65–70 ft.-lbs. (88–95 Nm) torque.



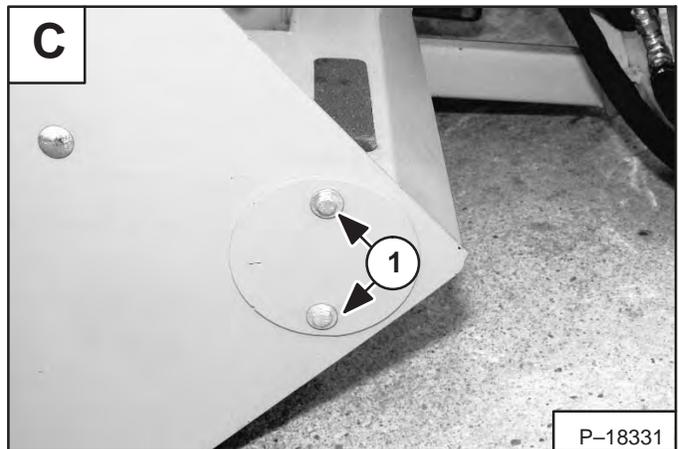
Remove the four bolts (Item 1) [B] and cover.

**Installation:** Tighten the bolts to 25–28 ft.-lbs. (34–38 Nm) torque.

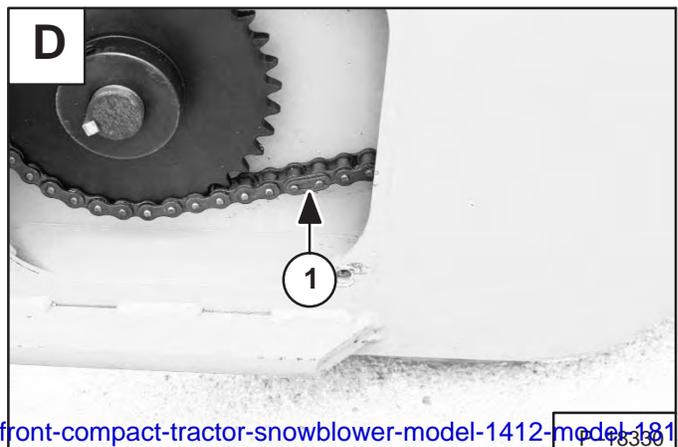


Remove the two bolts (Item 1) [C] and cover.

**Installation:** Tighten the bolts to 25–28 ft.-lbs. (34–38 Nm) torque.



Remove the master link (Item 1) [D] from the chain.



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