



# Bobcat®

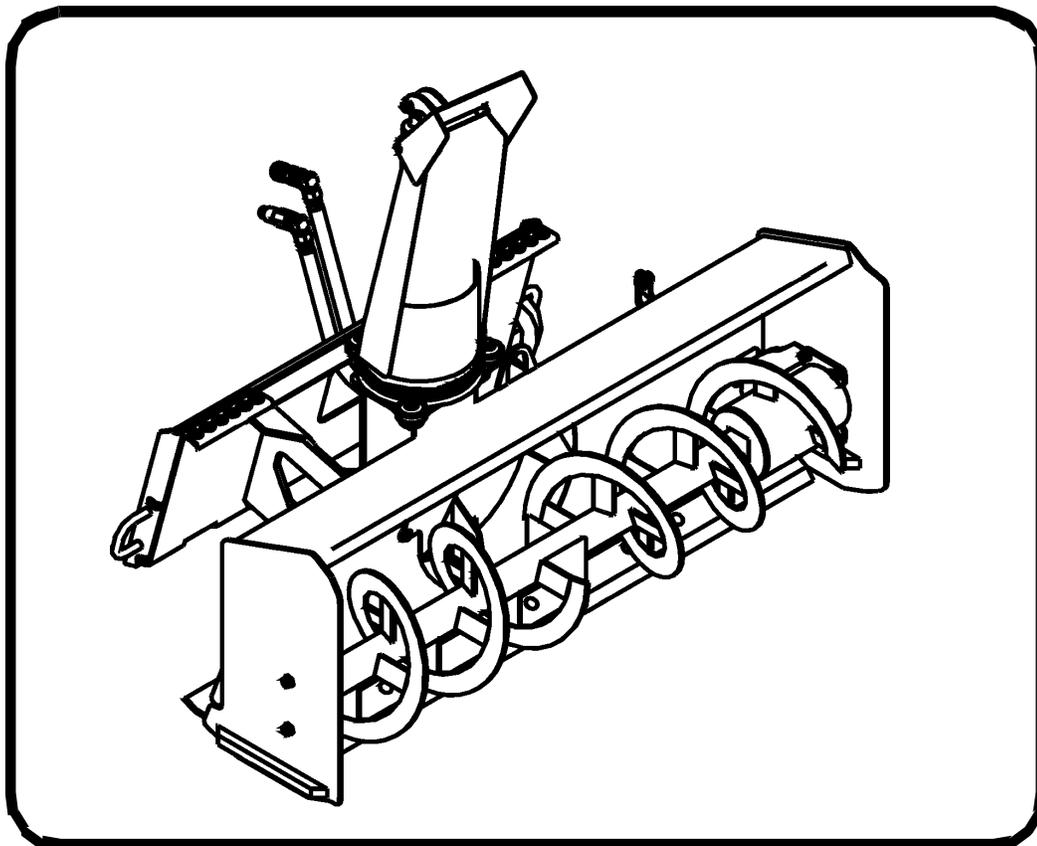
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## Service Manual Snowblower

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**SB150 (36 In.) S/N 713400101 & Above**  
**(48 In.) S/N 713300101 & Above**  
**SB200 (54 In.) S/N 713500101 & Above**  
**(60 In.) S/N 712700101 & Above**  
**(66 In.) S/N 712800101 & Above**  
**(72 In.) S/N 712900101 & Above**  
**(78 In.) S/N 713000101 & Above**

**SB240 (72 In.) S/N 713100101 & Above**  
**(84 In.) S/N 713200101 & Above**  
**SBX240 (72 In.) S/N A00F00101 & Above**  
**(84 In.) S/N 713600101 & Above**



Sample of manual. Download All 166 pages at:

<https://www.arepairmanual.com/downloads/2010-bobcat-front-compact-tractor-snowblower-sb150-sb200-sb240-sbx240-service-repair-workshop-manual/>

Product: 2010 Bobcat Front Compact Tractor Snowblower SB150/SB200/SB240/SBX240 Service Repair Workshop Manual  
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# MAINTENANCE SAFETY



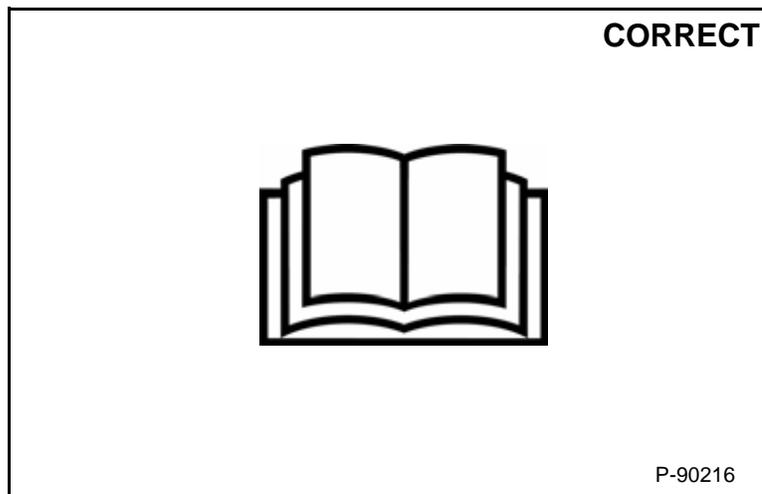
## WARNING

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-2003-0807



**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 / implements without instructions. See Operation & Maintenance Manual and Attachment / Implement Service Manual.
-  Cleaning and maintenance are required daily.
-  Never service or adjust attachment / implement with the engine running unless instructed to do so in manual.
-  Always lower the attachment / implement 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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## CONTENTS

SAFETY & MAINTENANCE .....	10-01
HYDRAULIC SYSTEM .....	20-01
MAINFRAME .....	30-01
SPECIFICATIONS .....	SPEC-01
ALPHABETICAL INDEX .....	INDEX-01



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## FOREWORD

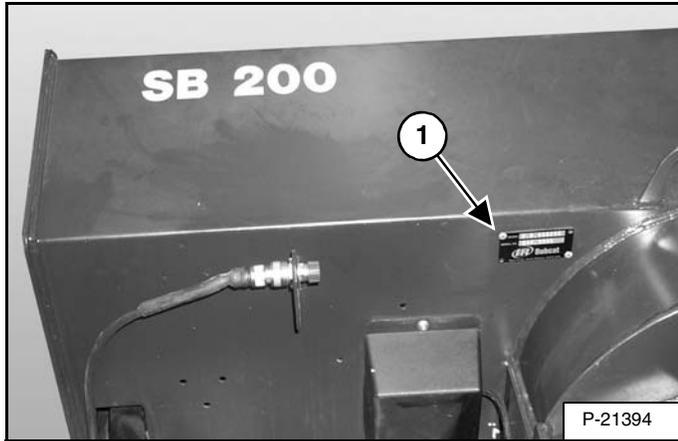
SERIAL NUMBER LOCATION .....	1-7
ATTACHMENT DELIVERY REPORT .....	1-7
ATTACHMENT IDENTIFICATION .....	1-8



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## SERIAL NUMBER LOCATION

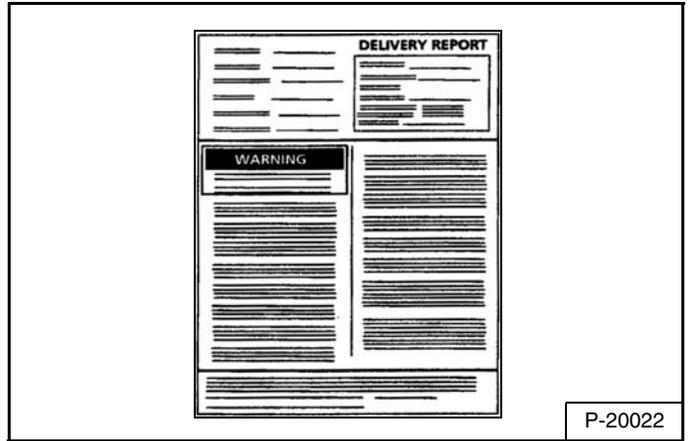
Figure 1



Always use the serial number (Item 1) [Figure 1] of the snowblower 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.

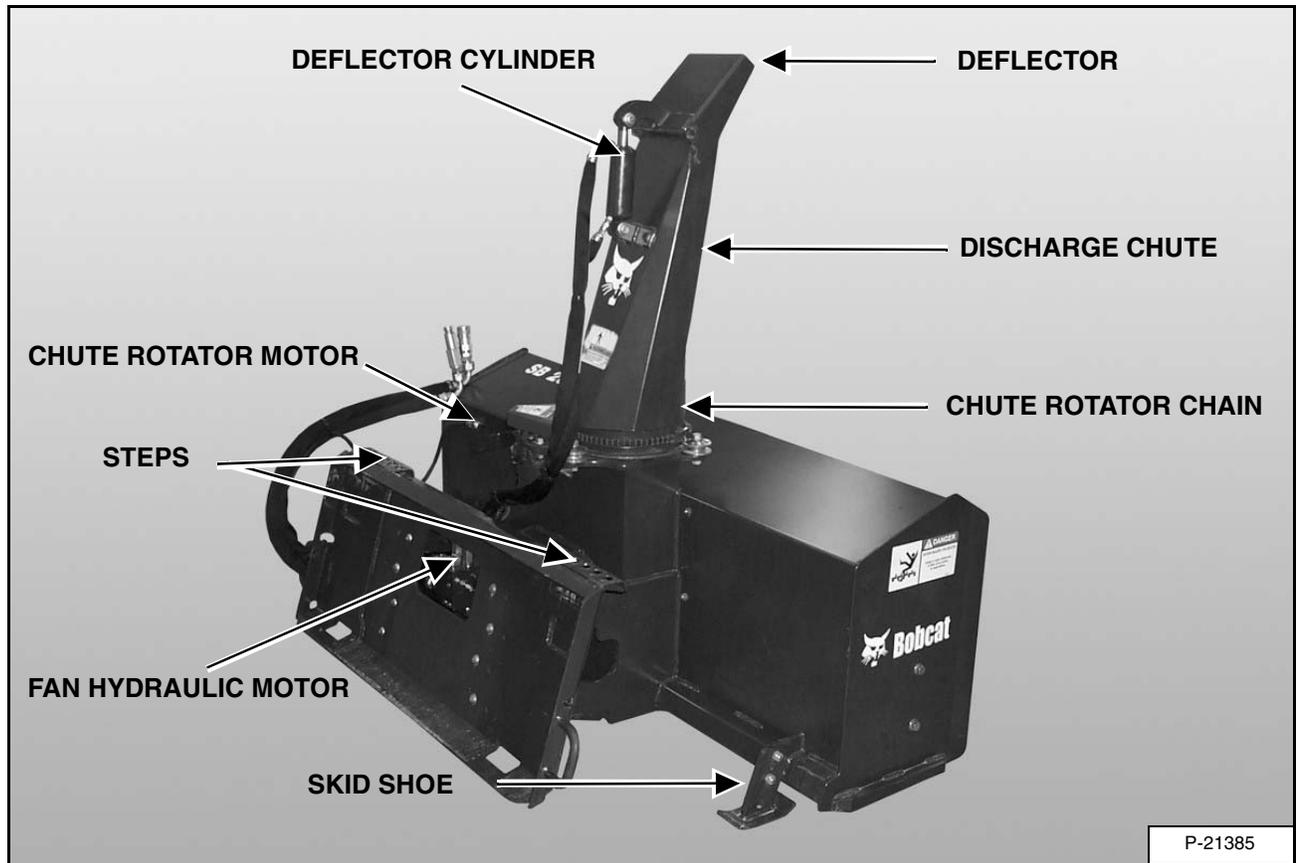
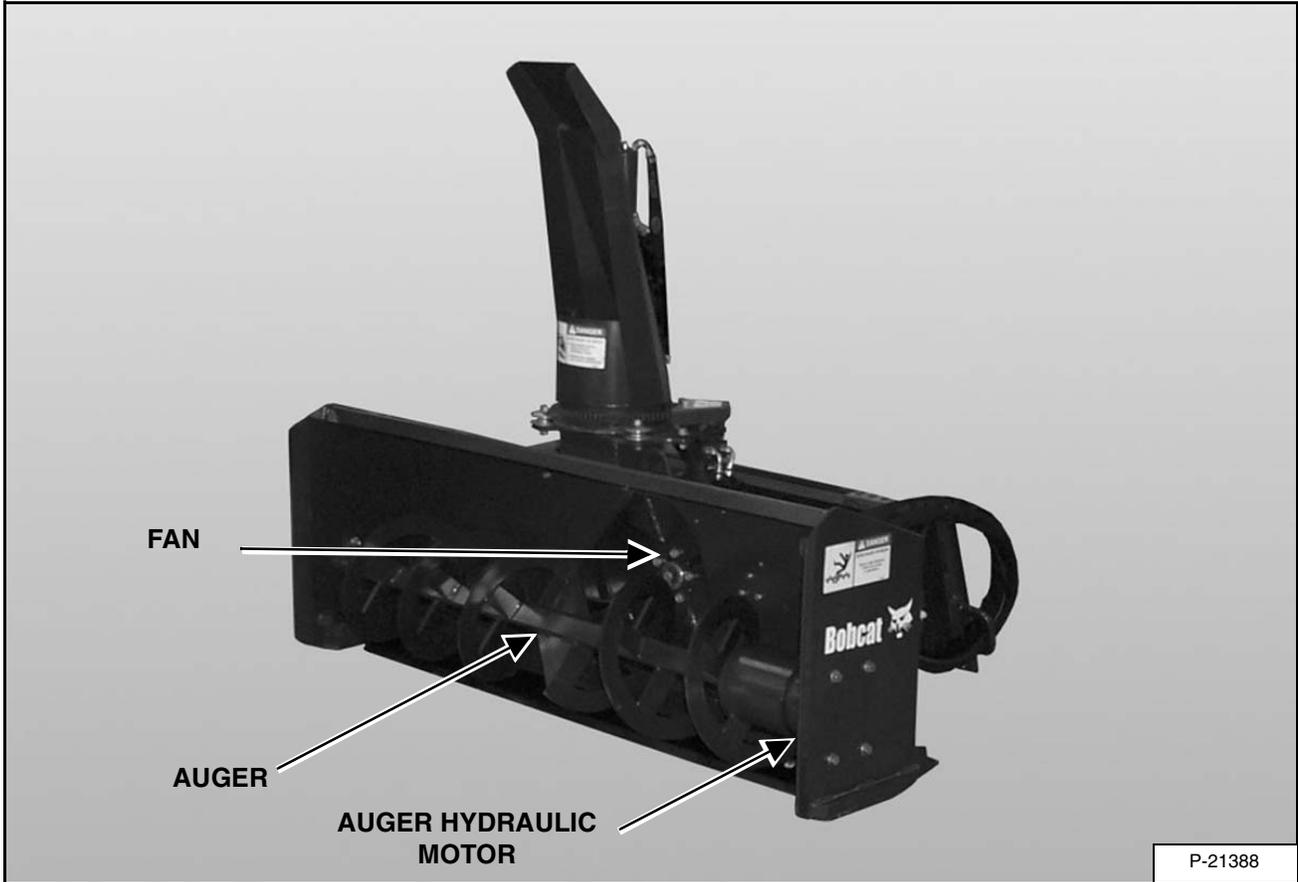
## ATTACHMENT DELIVERY REPORT

Figure 2



The delivery report [Figure 2] must be completed by the dealer and signed by the owner or operator when the snowblower is delivered. An explanation of the form must be given to the owner.

**ATTACHMENT IDENTIFICATION**



## SAFETY & MAINTENANCE

TROUBLESHOOTING .....	10-10-1
Chart .....	10-10-1
INSPECTION .....	10-20-1
Hand Lever Bob-Tach Inspection .....	10-20-1
Power Bob-Tach Inspection .....	10-20-2
Snowblower Mount Inspection .....	10-20-3
Daily Inspection .....	10-20-3
LUBRICATION .....	10-30-1
Lubrication Locations .....	10-30-1
CUTTING EDGE .....	10-40-1
Cutting Edge Replacement .....	10-40-1



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## TROUBLESHOOTING

### Chart



## 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

Use the following troubleshooting chart to locate and correct problems which most often occur with the implement.

PROBLEM	CAUSE	CORRECTION
Snowblower does not operate.	Loader main relief valve set to low.	Adjust main relief valve to correct setting.
	Loader fluid reservoir is to low.	Add hydraulic fluid to the fluid reservoir on the loader.
	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.
Chute does not rotate.	Damaged hydraulic motor.	Repair or replace.
	Loose or broken chute rotation chain.	Repair or replace.
Deflector does not adjust.	Damaged cylinder.	Repair or replace.
Snowblower cuts too low/too high.	Skid shoes out of adjustment.	Raise or lower skid shoes as needed.



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## INSPECTION

### Hand Lever Bob-Tach Inspection

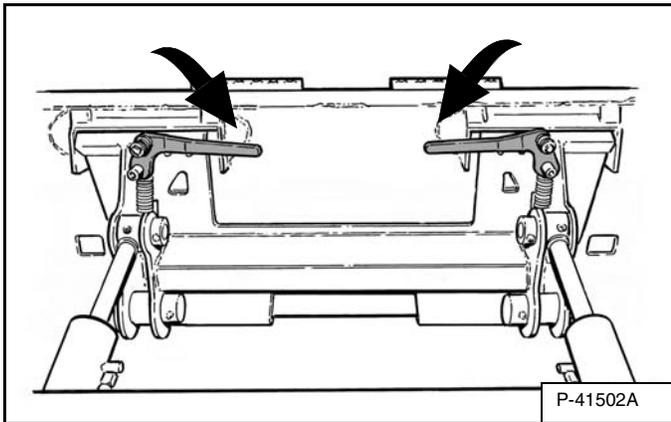
# WARNING

#### AVOID INJURY OR DEATH

The Bob-Tach wedges must extend through the holes in the attachment mounting frame. Levers must be fully down and locked. Failure to secure wedges can allow attachment to come off.

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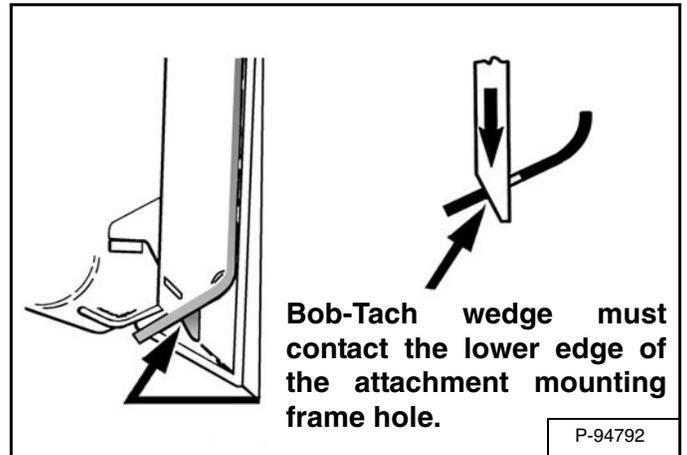
Figure 10-20-1



Push down on the Bob-Tach levers until they are fully engaged in the locked position [Figure 10-20-1] (wedges fully extended through the attachment mounting frame holes).

The levers and wedges must move freely [Figure 10-20-1].

Figure 10-20-2



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 10-20-2].

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

Inspect the mounting frame on the attachment. (See the machine's Operation & Maintenance Manual for inspecting the Bob-Tach). 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 machine's Operation & Maintenance Manual for the correct procedure.)

## INSPECTION (CONT'D)

### Power Bob-Tach Inspection

# WARNING

### AVOID INJURY OR DEATH

The Bob-Tach wedges must extend through the holes in the attachment mounting frame. Levers must be fully down and locked. Failure to secure wedges can allow attachment to come off.

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Figure 10-20-3

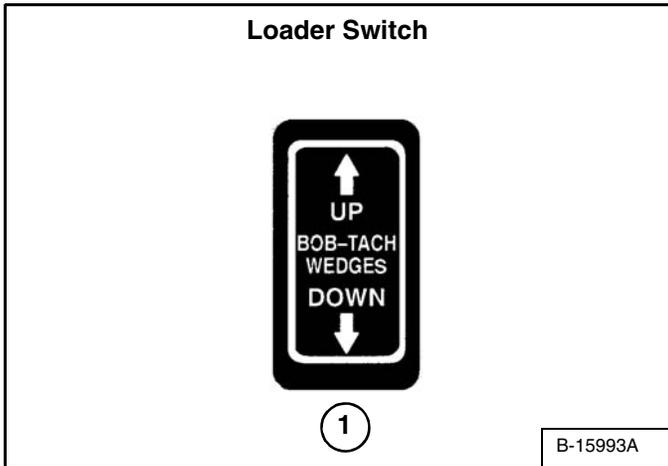


Figure 10-20-4

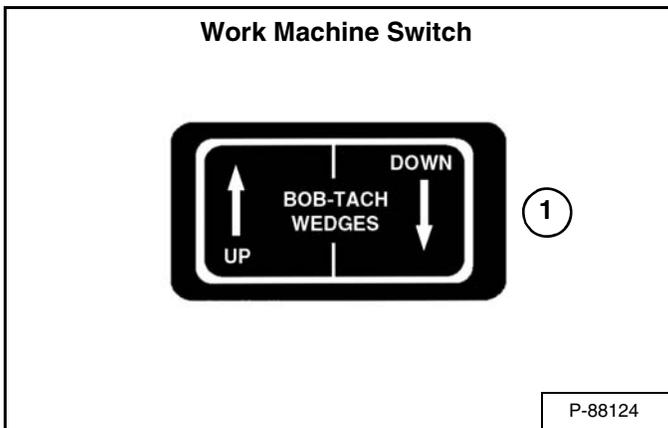
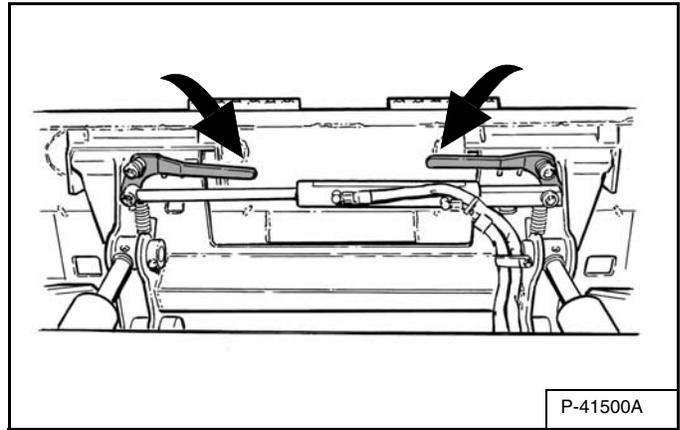
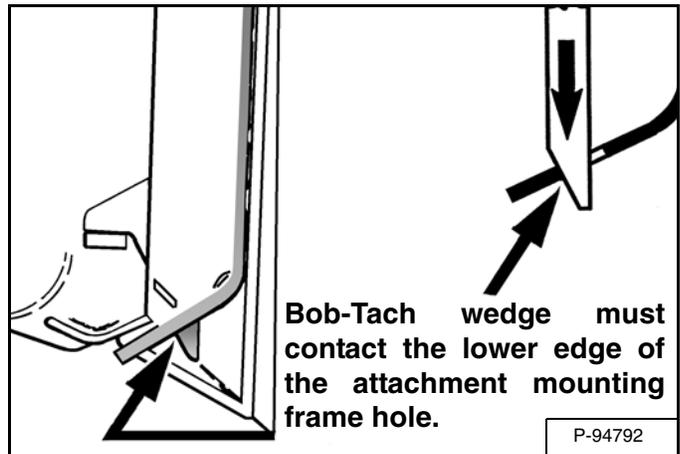


Figure 10-20-5



Push and hold the BOB-TACH “WEDGES DOWN” switch (Item 1) [Figure 10-20-3] or [Figure 10-20-4] until the levers are fully engaged in the locked position [Figure 10-20-5] (wedges fully extended through the attachment mounting frame holes).

Figure 10-20-6



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 10-20-6].

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

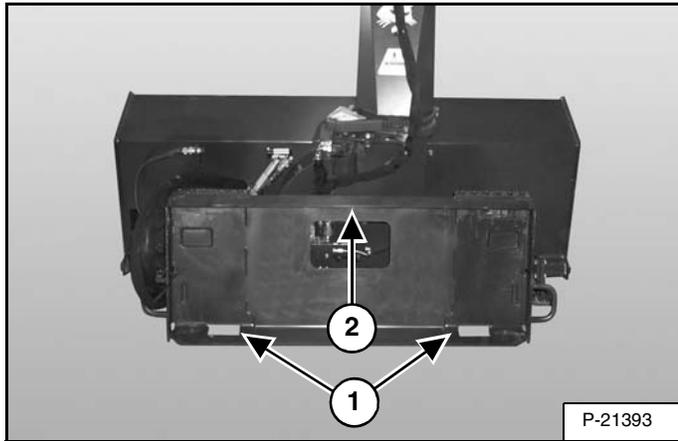
Inspect the mounting frame on the attachment. (See the machine's Operation & Maintenance Manual for inspecting the Bob-Tach). Replace any parts that are damaged, bent or missing. Keep all fasteners tight. Look for cracked welds. Contact your Bobcat dealer for repair or replacement parts.

Lubricate the wedges. (See the machine's Operation & Maintenance Manual for the correct procedure.)

## INSPECTION (CONT'D)

### Snowblower Mount Inspection

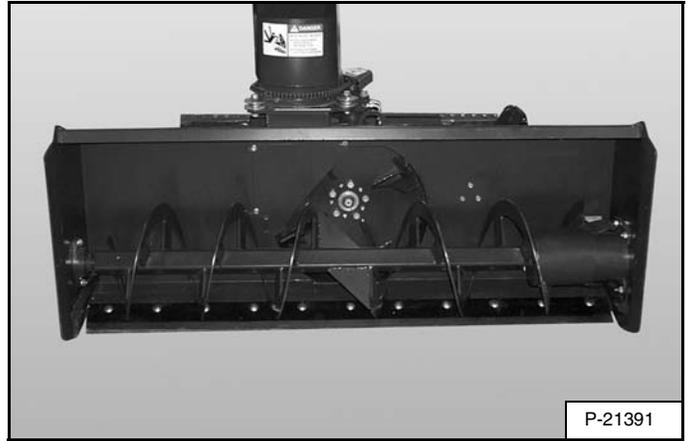
Figure 10-20-7



Inspect the Bob-Tach wedge mount (Item 1), mounting flange (Item 2) and all welds on the snowblower mount for wear and damage each time the snowblower is removed from the loader **[Figure 10-20-7]**.

## Daily Inspection

Figure 10-20-8



Inspect all welds for cracks/damage. Check for loose or missing hardware **[Figure 10-20-8]**.

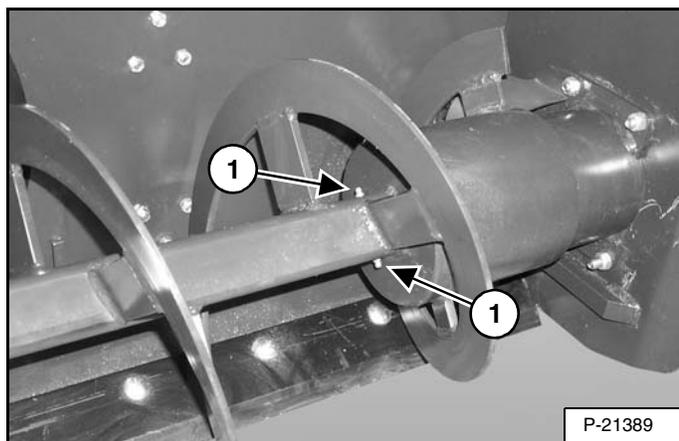


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## LUBRICATION

### Lubrication Locations

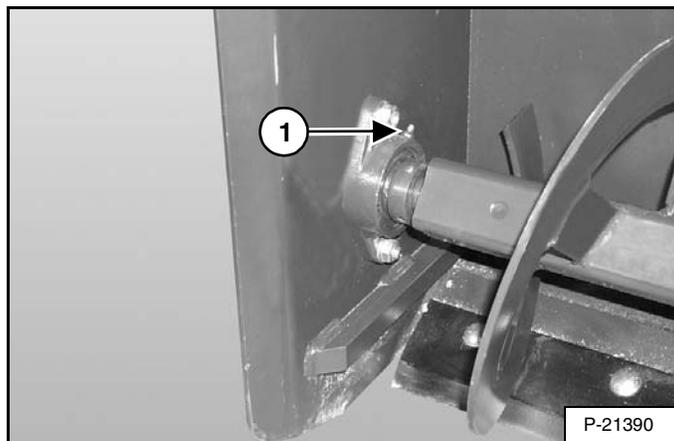
Figure 10-30-1



Always use a good quality lithium base grease when lubricating the snowblower.

Add grease to the fittings (Item 1) [Figure 10-30-1] on the left side of the auger shaft.

Figure 10-30-2



Add grease to the fitting (Item 1) [Figure 10-30-2] on the right side of the auger shaft.

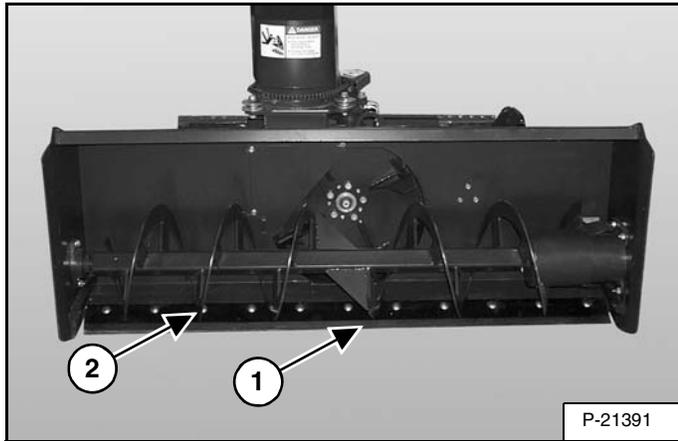


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## CUTTING EDGE

### Cutting Edge Replacement

Figure 10-40-1



Inspect the cutting edge (Item 1) [Figure 10-40-1] for wear and / or damage.

Remove the bolts and nuts (Item 2) [Figure 10-40-1].

**Installation:** Tighten the bolts to 65 - 70 ft.-lb. (88 - 95 N•m) Torque.

Remove / replace the cutting edge (Item 1) [Figure 10-40-1].



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## HYDRAULIC SYSTEM

HYDRAULIC CONTROL VALVE (S/N 712700101 & ABOVE, S/N 712800101 & ABOVE, S/N 712900101 & ABOVE, S/N 713000101 & ABOVE, S/N 713100101 & ABOVE, S/N 713200101 & ABOVE) . . . . .	20-10-1
Removal and Installation . . . . .	20-10-1
Parts Identification . . . . .	20-10-4
Disassembly . . . . .	20-10-5
Assembly . . . . .	20-10-10
HYDRAULIC CONTROL VALVE (S/N 713300101 & ABOVE, S/N 713400101 & ABOVE) . . . . .	20-11-1
Removal and Installation . . . . .	20-11-1
Parts Identification . . . . .	20-11-3
Disassembly . . . . .	20-11-4
Assembly . . . . .	20-11-8
HYDRAULIC CONTROL VALVE (S/N 713600101 & ABOVE, S/N A00F00101 & ABOVE) . . . . .	20-12-1
Removal and Installation . . . . .	20-12-1
Parts Identification . . . . .	20-12-4
Disassembly . . . . .	20-12-5
Assembly . . . . .	20-12-10
HYDRAULIC CYLINDER . . . . .	20-20-1
Removal And Installation . . . . .	20-20-1
ROTATOR MOTOR (S/N 713500460 & BELOW, S/N 712701263 & BELOW, S/N 712802435 & BELOW, S/N 712903358 & BELOW, S/N 713001301 & BELOW, S/N 713101106 & BELOW, S/N 713200763 & BELOW, S/N A00F00633 & BELOW, S/N 713600767 & BELOW, S/N 713400556 & BELOW, S/N 713300546 & BELOW) . . . . .	20-30-1
Removal And Installation . . . . .	20-30-1
Parts Identification . . . . .	20-30-3
Disassembly . . . . .	20-30-4
Assembly And Timing The Hydraulic Motor . . . . .	20-30-7
ROTATOR MOTOR (S/N 713500461 & ABOVE, S/N 712701264 & ABOVE, S/N 712802436 & ABOVE, S/N 712903359 & ABOVE, S/N 713001302 & ABOVE, S/N 713101107 & ABOVE, S/N 713200764 & ABOVE, S/N A00F00634 & ABOVE, S/N 713600768 & ABOVE, S/N 713400557 & ABOVE, S/N 713300547 & ABOVE) . . . . .	20-31-1
Removal And Installation . . . . .	20-31-1
Parts Identification . . . . .	20-31-3
Disassembly . . . . .	20-31-4
Assembly . . . . .	20-31-6

FAN MOTOR (S/N 712700101 & ABOVE, S/N 712800101 & ABOVE, S/N 712900101 & ABOVE, S/N 713000101 & ABOVE, S/N 713100101 & ABOVE, S/N 713200101 & ABOVE, S/N A00F00101 & ABOVE, S/N 713600101 & ABOVE) .....	20-40-1
Removal And Installation .....	20-40-1
Parts Identification .....	20-40-2
Disassembly And Assembly .....	20-40-3
Inspection .....	20-40-6
Timing The Hydraulic Motor .....	20-40-7
FAN MOTOR (S/N 713300101 & ABOVE, S/N 713400101 & ABOVE) .....	20-41-1
Removal And Installation .....	20-41-1
Parts Identification .....	20-41-2
Disassembly And Assembly .....	20-41-3
AUGER MOTOR (S/N 712700101 & ABOVE, S/N 712800101 & ABOVE, S/N 712900101 & ABOVE, S/N 713000101 & ABOVE, S/N 713100101 & ABOVE, S/N 713200101 & ABOVE, S/N A00F00101 & ABOVE, S/N 713600101 & ABOVE) .....	20-50-1
Removal And Installation .....	20-50-1
Parts Identification .....	20-50-2
Disassembly And Assembly .....	20-50-3
AUGER MOTOR (S/N 713300101 & ABOVE, S/N 713400101 & ABOVE) .....	20-51-1
Removal And Installation .....	20-51-1
Parts Identification .....	20-51-3
Disassembly And Assembly .....	20-51-4
DRIVE BLOCK .....	20-60-1
Removal And Installation .....	20-60-1

HYDRAULIC CONTROL VALVE (S/N 712700101 & ABOVE, S/N 712800101 & ABOVE, S/N 712900101 & ABOVE, S/N 713000101 & ABOVE, S/N 713100101 & ABOVE, S/N 713200101 & ABOVE)

### Removal and Installation

## IMPORTANT

When repairing hydrostatic and hydraulic systems, clean the work area before disassembly and keep all parts clean. Always use caps and plugs on hoses, tubelines and ports to keep dirt out. Dirt can quickly damage the system.

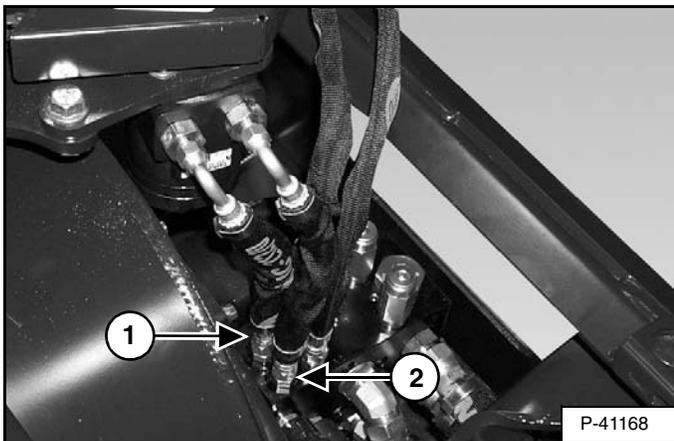
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## IMPORTANT

Contain and dispose of any oil leakage in an environmentally safe manner.

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Figure 20-10-1



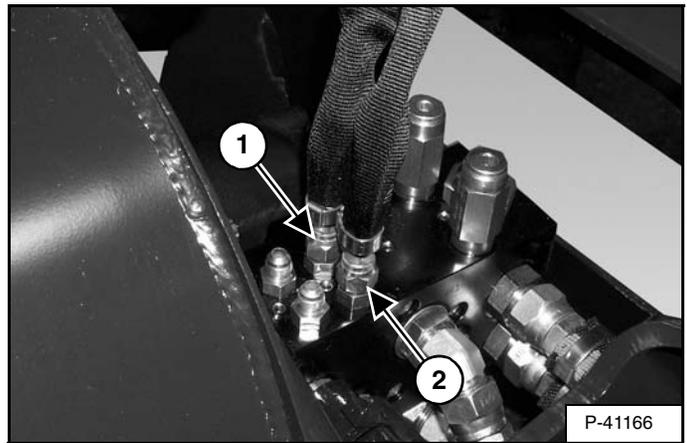
Remove hose (Item 1) [Figure 20-10-1].

**Installation:** Hose (Item 1) [Figure 20-10-1] is connected to the front fitting of the discharge chute rotator motor.

Remove hose (Item 2) [Figure 20-10-1].

**Installation:** Hose (Item 2) [Figure 20-10-1] is connected to the back fitting of the discharge chute rotator motor.

Figure 20-10-2



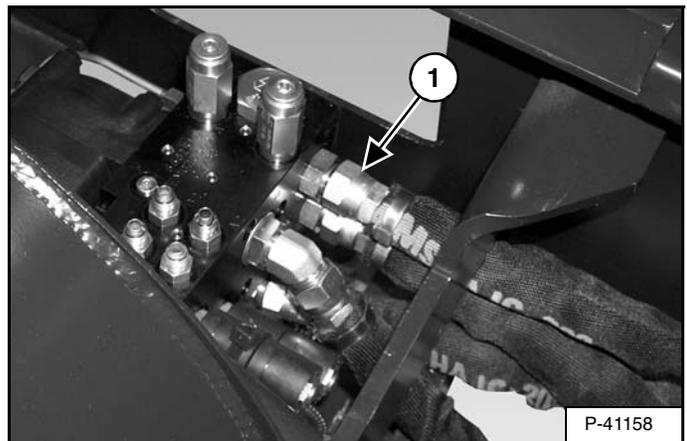
Remove hose (Item 1) [Figure 20-10-2].

**Installation:** This hose is connected to the base end of the deflector cylinder.

Remove hose (Item 2) [Figure 20-10-2].

**Installation:** This hose is connected to the rod end of the deflector cylinder.

Figure 20-10-3

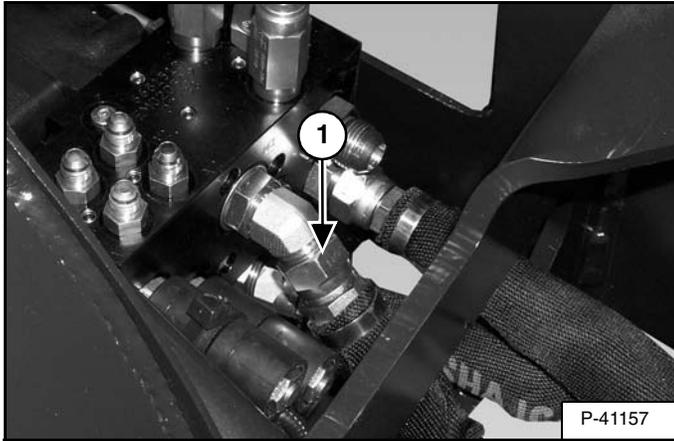


Remove female quick coupler hose (Item 1) [Figure 20-10-3].

HYDRAULIC CONTROL VALVE (S/N 712700101 & ABOVE, S/N 712800101 & ABOVE, S/N 712900101 & ABOVE, S/N 713000101 & ABOVE, S/N 713100101 & ABOVE, S/N 713200101 & ABOVE) (CONT'D)

Removal and Installation (Cont'd)

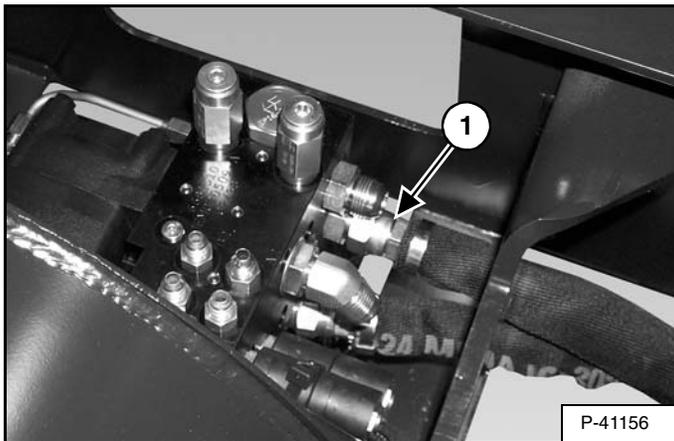
Figure 20-10-4



Remove hose (Item 1) [Figure 20-10-4].

**Installation:** This hose is connected to the top fitting on the auger motor.

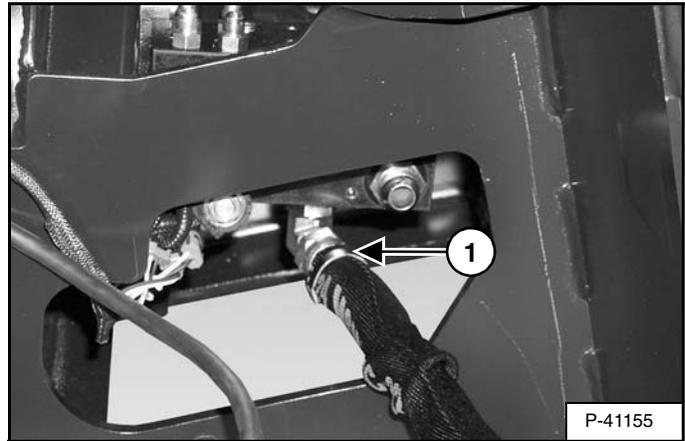
Figure 20-10-5



Remove hose (Item 1) [Figure 20-10-5].

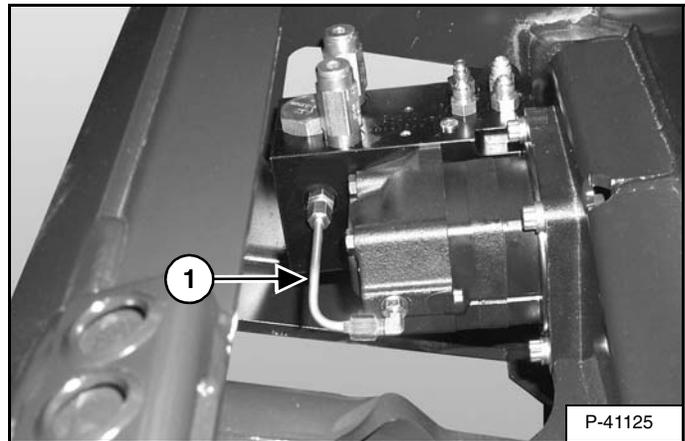
**Installation:** This hose is connected to the bottom fitting on the auger motor.

Figure 20-10-6



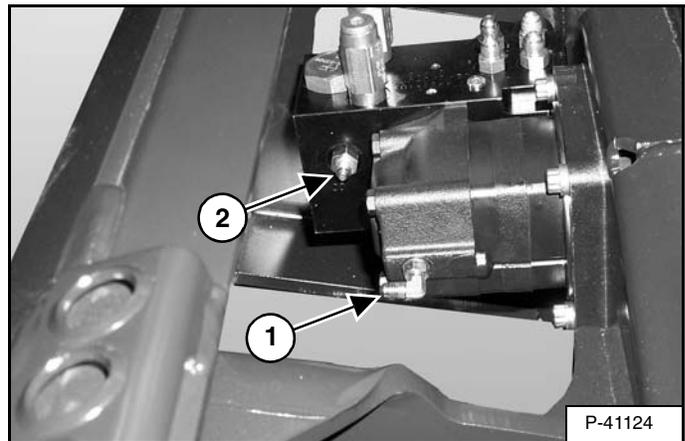
Remove the male quick coupler hose (Item 1) [Figure 20-10-6].

Figure 20-10-7



Remove case drain (Item 1) [Figure 20-10-7].

Figure 20-10-8

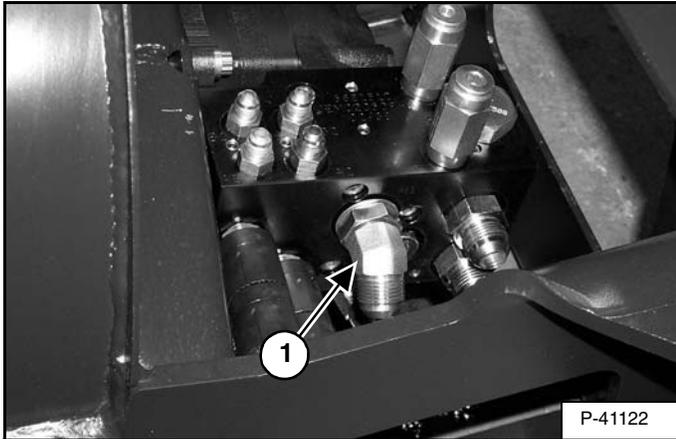


Remove 90° fitting (Item 1) from the fan motor. Remove the straight fitting (Item 2) from the control valve [Figure 20-10-8].

**HYDRAULIC CONTROL VALVE (S/N 712700101 & ABOVE, S/N 712800101 & ABOVE, S/N 712900101 & ABOVE, S/N 713000101 & ABOVE, S/N 713100101 & ABOVE, S/N 713200101 & ABOVE) (CONT'D)**

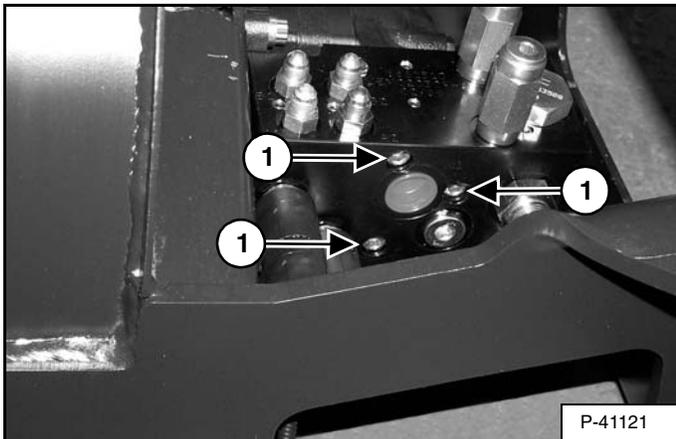
**Removal and Installation (Cont'd)**

**Figure 20-10-9**



Remove fitting (Item 1) [Figure 20-10-9].

**Figure 20-10-10**



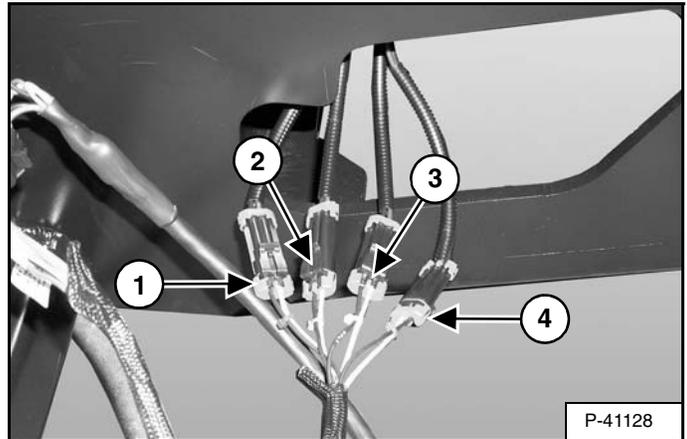
Remove bolts (Item 1) [Figure 20-10-10].

**Installation:** Tighten bolts to 25 - 28 ft.-lb. (34 - 38 N•m) torque.

Remove the control valve.

**NOTE:** There are two O-rings placed between the control valve and fan motor. When installing the control valve, check the O-rings and verify that they are in their correct position before tightening the control valve mounting bolts.

**Figure 20-10-11**



**Wire Harness 6734188**

Disconnect electrical connector (Red) (Item 1) [Figure 20-10-11].

**Installation:** Connector with Red cable tie will connect to the top outside coil.

Disconnect electrical connector (Purple) (Item 2) [Figure 20-10-11].

**Installation:** Connector with Purple cable tie will connect to the top inside coil.

Disconnect electrical connector (White) (Item 3) [Figure 20-10-11].

**Installation:** Connector with White cable tie will connect to the bottom inside coil.

Disconnect electrical connector (Brown) (Item 4) [Figure 20-10-11].

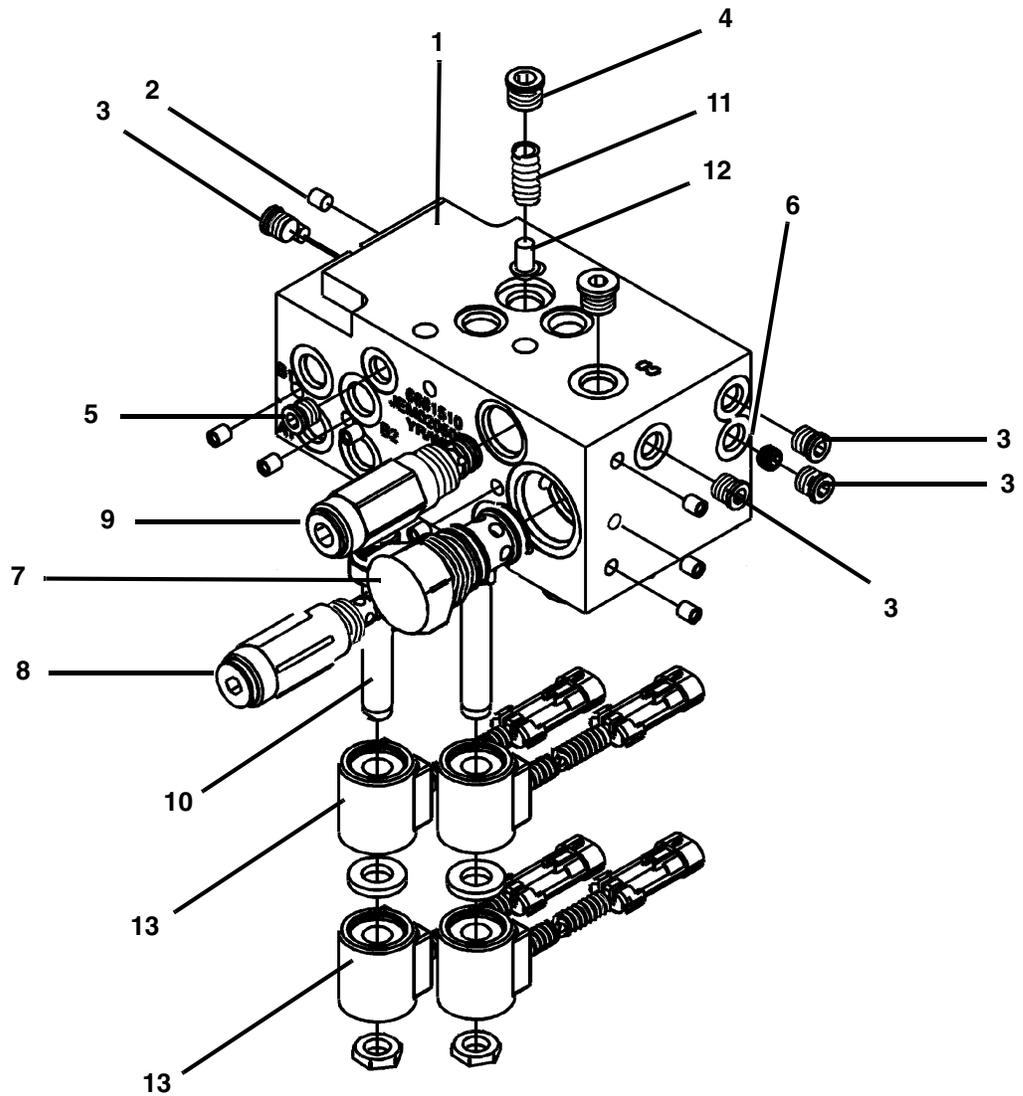
**Installation:** Connector with Brown cable tie will connect to the bottom outside coil.

**NOTE:** Wire harness 6734189 will be color coded as follows:

- Green - Top inside coil.**
- Yellow - Top outside coil.**
- Blue - Bottom inside coil.**
- Orange - Bottom outside coil.**

Parts Identification

- 1. MANIFOLD BLOCK
- 2. PLUG
- 3. PLUG
- 4. PLUG
- 5. PLUG
- 6. ORIFICE 0.086 in. (2.18 mm)
- 7. LOGIC ELEMENT
- 8. RELIEF VALVE
- 9. RELIEF VALVE
- 10. SPOOL
- 11. SPRING
- 12. POPPET
- 13. COIL



HYDRAULIC CONTROL VALVE (S/N 712700101 & ABOVE, S/N 712800101 & ABOVE, S/N 712900101 & ABOVE, S/N 713000101 & ABOVE, S/N 713100101 & ABOVE, S/N 713200101 & ABOVE) (CONT'D)

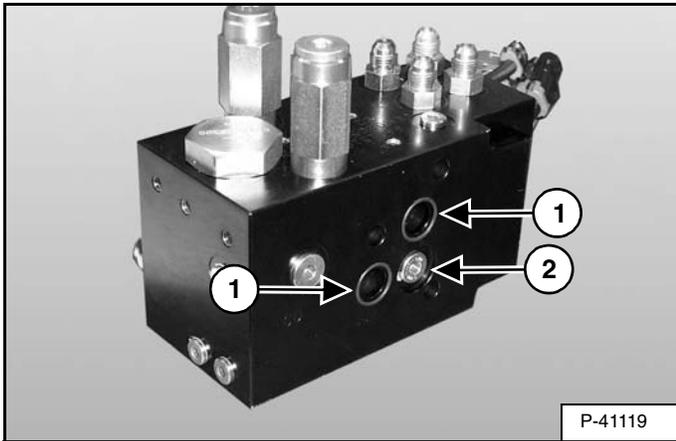
Disassembly

# IMPORTANT

When repairing hydrostatic and hydraulic systems, clean the work area before disassembly and keep all parts clean. Always use caps and plugs on hoses, tubelines and ports to keep dirt out. Dirt can quickly damage the system.

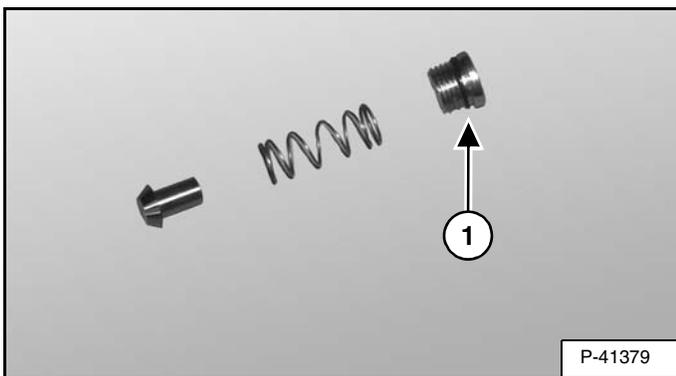
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Figure 20-10-12



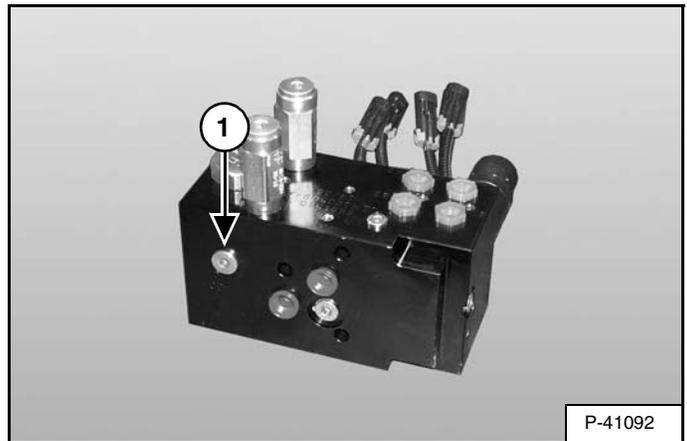
Replace O-rings (Item 1), then remove plug (Item 2), spring and poppet [Figure 20-10-12].

Figure 20-10-13



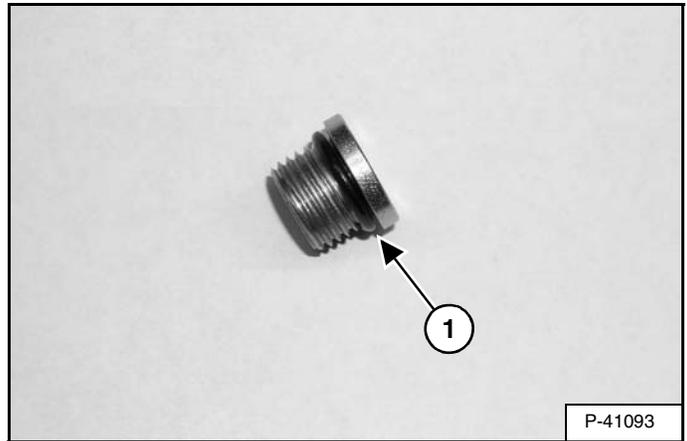
Replace O-ring (Item 1) [Figure 20-10-13].

Figure 20-10-14



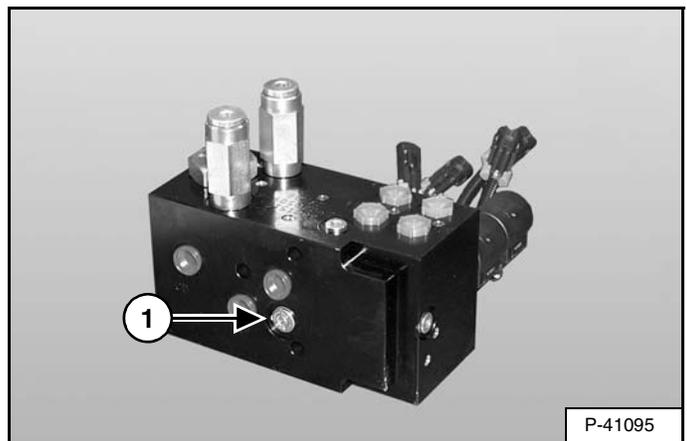
Remove the plug (Item 1) [Figure 20-10-14].

Figure 20-10-15



Replace O-ring (Item 1) [Figure 20-10-15].

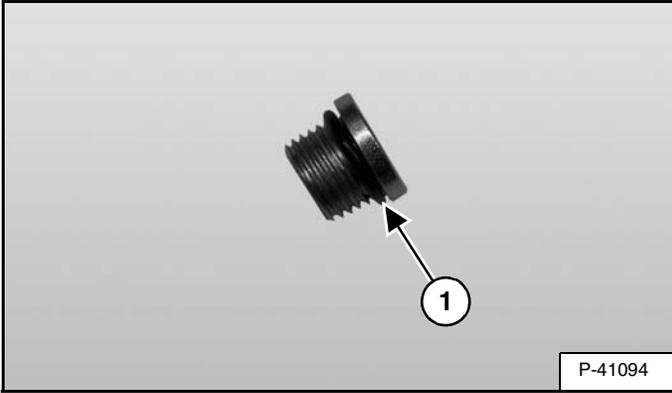
Figure 20-10-16



Remove the plug (Item 1) [Figure 20-10-16].

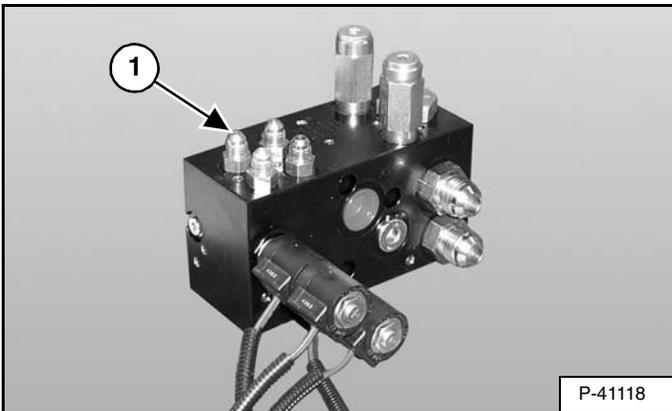
Disassembly (Cont'd)

Figure 20-10-17



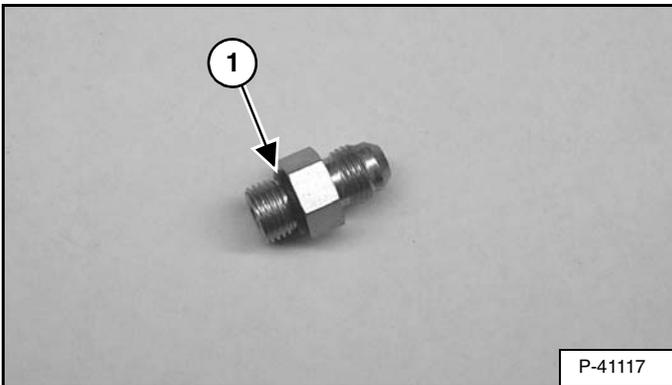
Replace O-ring (Item 1) [Figure 20-10-17].

Figure 20-10-18



Remove the four fittings (Item 1) [Figure 20-10-18].

Figure 20-10-19



Replace O-rings (Item 1) [Figure 20-10-19] from the four fittings.

Sample of manual. Download All 166 pages at:

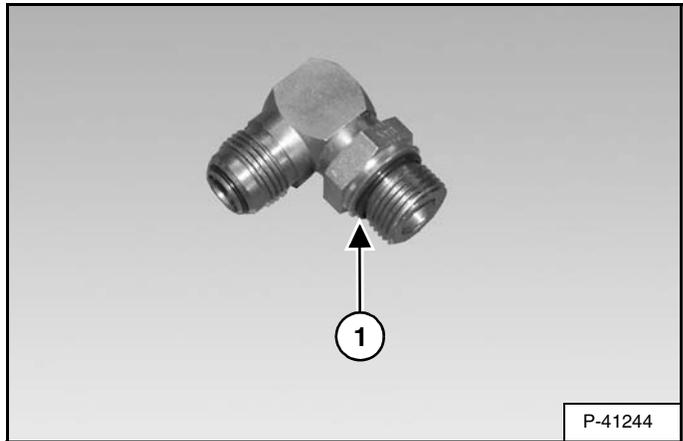
<http://www.arespairmanual.com/downloads/2010-bobcat-front-compact-tractor-snowblower-sb150-sb200-sb240-sbx240-service-repair-workshop-manual/>

Figure 20-10-20



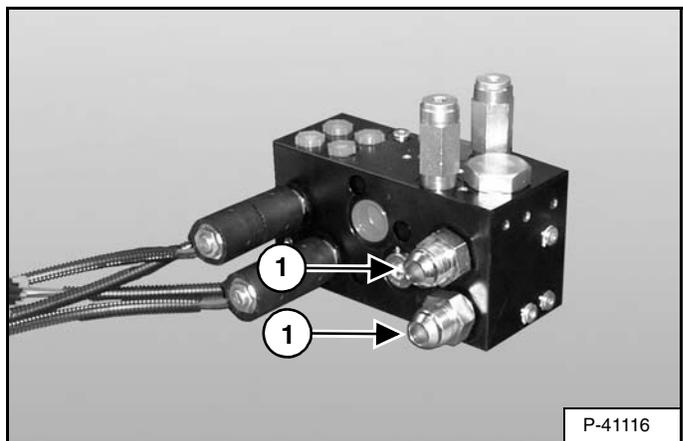
Remove the fitting (Item 1) [Figure 20-10-20].

Figure 20-10-21



Replace O-ring (Item 1) [Figure 20-10-21].

Figure 20-10-22



Remove the two fittings (Item 1) [Figure 20-10-22].