



# Bobcat®

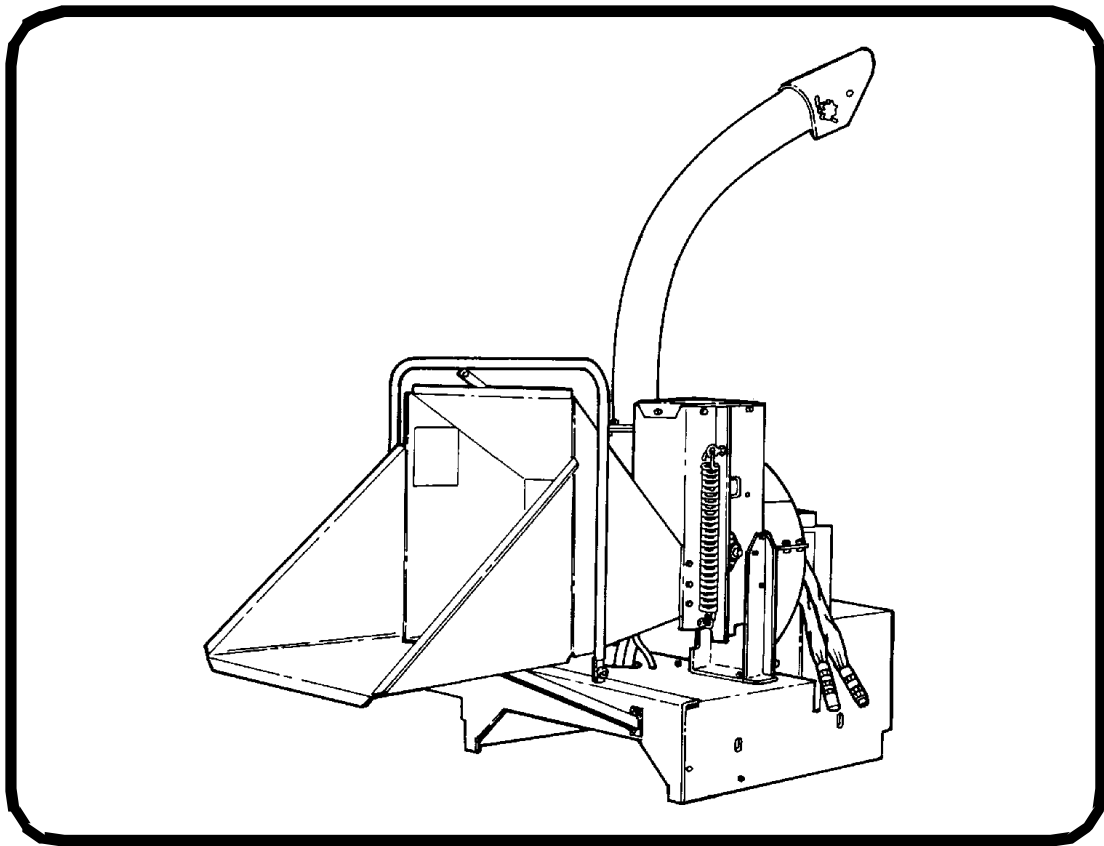
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## Operation & Maintenance Manual Bobcat Chipper

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**(WC-5A) S/N 912900101 & Above**

**(WC-8A) S/N 739500101 & Above**



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## **FEATURES AND ACCESSORIES**

### **Standard Items**

The Chipper is equipped with the following Standard Items:

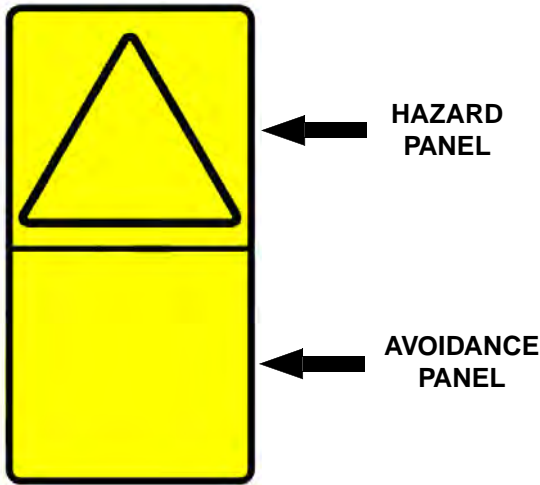
- Feed Roller Control.
- Feed Roller Stop Bar.
- Automatic Hydraulic Feed (With speed control and load sensing systems).
- 360° Locking Discharge Chute (With end deflector).
- Dual Mounting Locations (To feed material from the front or right side of machine).
- Four Reversible Tool Steel Blades.

**ATTACHMENT SIGNS (DECALS) (CONT'D)**

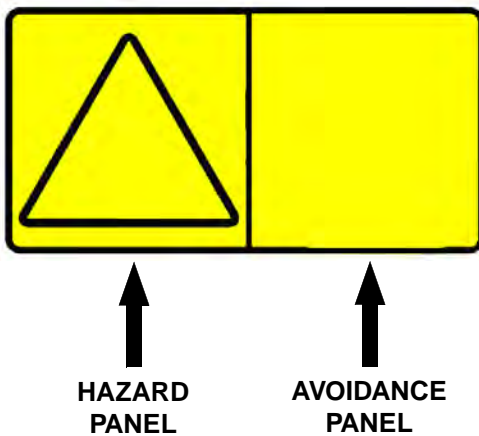
**Pictorial Only Safety Signs**

Safety signs are used to alert the equipment operator or maintenance person to hazards that may be encountered in the use and maintenance of the equipment. The location and description of the safety signs are detailed in this section. Please become familiarized with all safety signs installed on the machine / attachment.

*Vertical Configuration*



*Horizontal Configuration*



The format consists of the hazard panel(s) and the avoidance panel(s):

Hazard panels depict a potential hazard enclosed in a safety alert triangle.

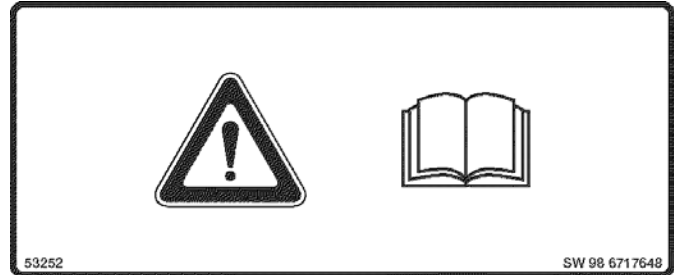
Avoidance panels depict actions required to avoid the hazards.

A safety sign may contain more than one hazard panel and more than one avoidance panel.

**NOTE: See the numbered ATTACHMENT SIGNS (DECALS) on Page 18 for the location of each correspondingly numbered pictorial only decal.**

**1. Read Manual (6717648)**

This safety sign is located on the Chipper.



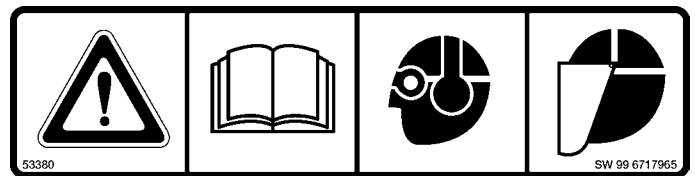
**AVOID INJURY OR DEATH**

**Never use the attachment without instructions. Read the Operation & Maintenance Manual.**

W-2850-0410

**2. Personal Protection Equipment Warning (6717965)**

This safety sign is located on the Chipper.



**AVOID INJURY OR DEATH**

**Wear appropriate eye, hearing and face protection. Wear tight fitting clothing and work gloves when operating the chipper.**

W-2341-1298

## OPERATING PROCEDURE WITH LOADERS (CONT'D)

### Entering And Exiting The Loader

When the chipper is attached, always enter and exit the loader from the right side, as viewed from the operator seat.

# ⚠ WARNING

**AVOID INJURY**  
Enter the loader from the right side only.

W-2192-0595

Entering

Figure 23

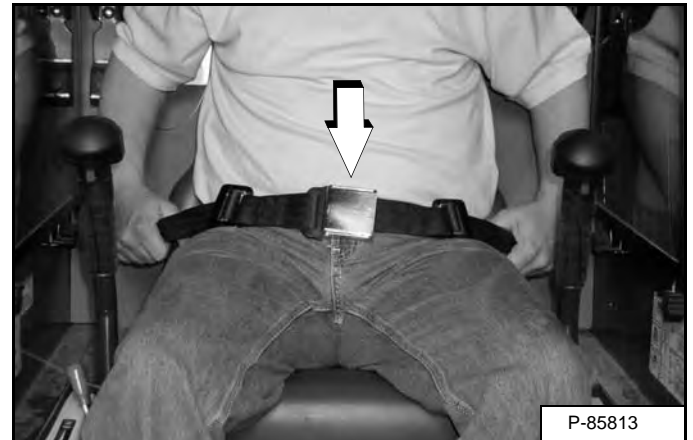


Figure 24



Use the chipper steps, grab handles and safety treads (on top of the loader lift arms and frame) to enter and exit the loader [Figure 23] or [Figure 24]. Never enter or exit the loader with the chipper running or the loader engine running.

Figure 25



Enter the loader. Fasten the seat belt and adjust it so the buckle is centered between your hips [Figure 25].

Figure 26



Lower the seat bar and engage the parking brake [Figure 26].

Put the foot pedals or hand controls in NEUTRAL position.

**NOTE: Keep your hands on the steering levers and your feet on the foot pedals (or footrests) while operating the loader.**

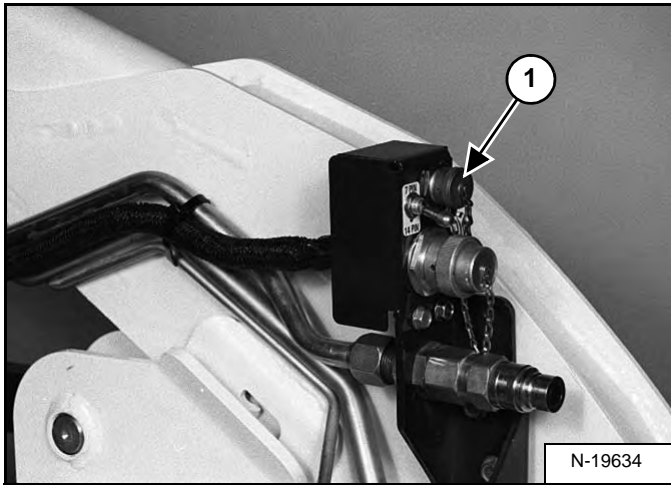
See the loader's Operation & Maintenance Manual and Operator's Handbook for detailed information on operating the loader.

## OPERATING PROCEDURE WITH LOADERS (CONT'D)

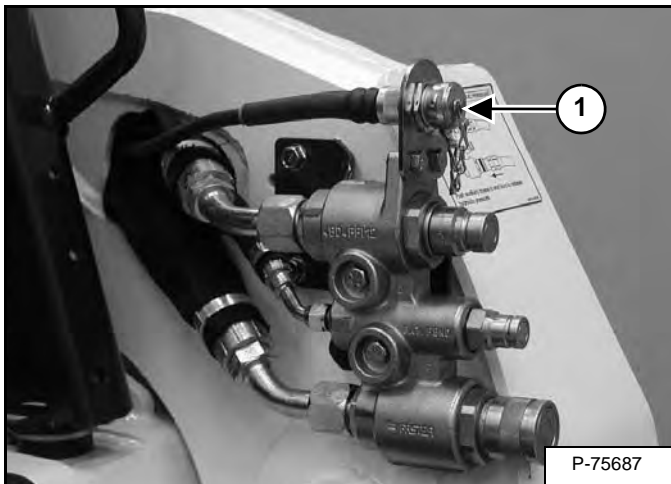
### Electrical Harness (Cont'd)

*Electrical Connections For Loaders Equipped With Rear Pivot Seat Bars And The 7- Pin Electrical Control Kit*

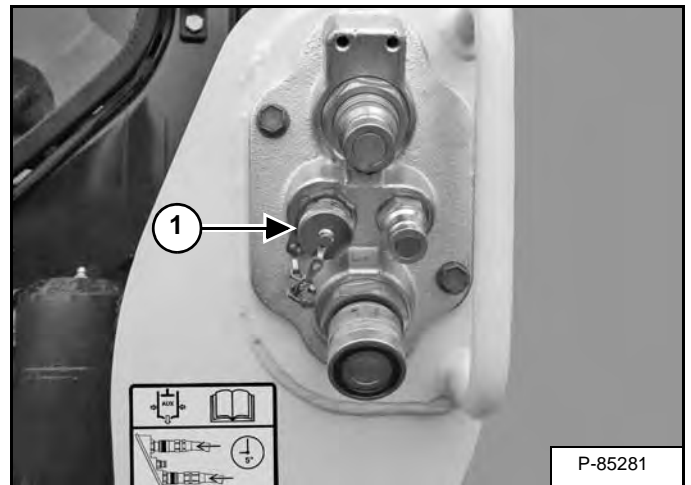
**Figure 45**



**Figure 46**

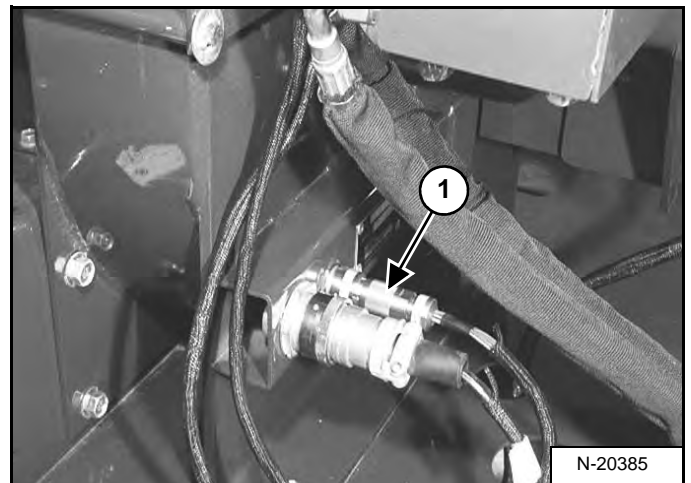


**Figure 47**



Remove the protective cap from the 7-Pin connector (Item 1) [Figure 45], [Figure 46] and [Figure 47].

**Figure 48**



Remove the small (7-Pin) connector (Item 1) [Figure 48] from the storage plug on the chipper.

**NOTE:** Early model WC-8A chippers are only equipped with the 19-Pin Remote Attachment Control Harness. A kit is available to update the chipper wiring to work on the new 7-Pin connector. Contact your Bobcat dealer for parts.

Connect the wire harness to the loader's 7-Pin connector (Item 1) [Figure 45], [Figure 46] and [Figure 47].

**NOTE:** When the chipper is removed from the loader, install the protective cap on the 7-Pin connector.

## OPERATING PROCEDURE WITH LOADERS (CONT'D)

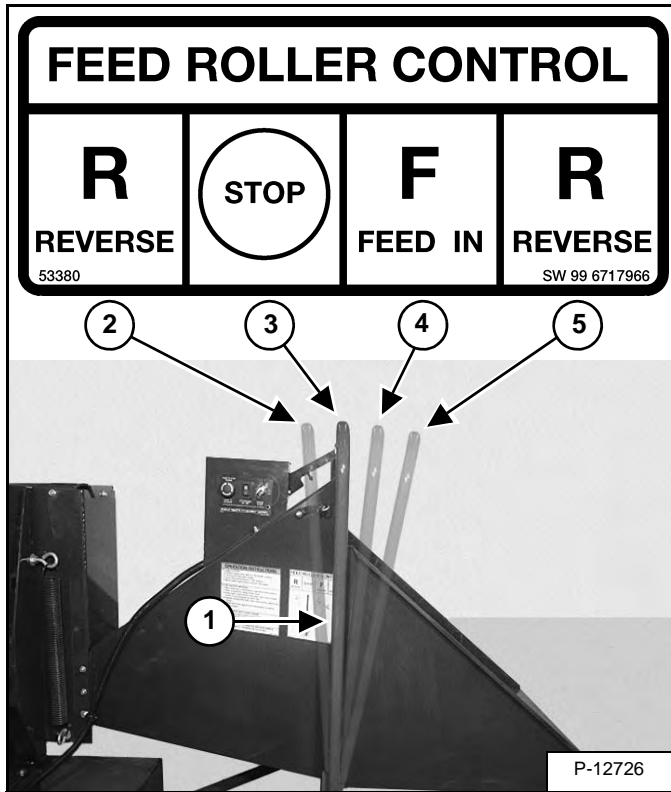
### Operation With The Loader (Cont'd)

#### Chipper Operation

Set the chipper up for operation. (See Getting Ready For Operation on page 43.)

Allow only trained personnel to operate the chipper.

Figure 68



The feed roller control (Item 1) [Figure 68] has four positions:

REVERSE (Item 2) [Figure 68]: Reverses the direction of the feed roller. Use reverse to unplug the feed roller.

STOP (Item 3) [Figure 68]: Stops the feed roller.

FORWARD (Item 4) [Figure 68]: Feeds brush into the chipper.

REVERSE (Item 5) [Figure 68]: Reverses the direction of the feed roller. Use reverse to unplug the feed roller.

Move the feed roller control (Item 1) [Figure 68] to the STOP position.

Start the loader engine and engage the chipper. (See Starting The Chipper on page 46.)

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## OPERATING PROCEDURE WITH UTILITY WORK MACHINE (CONT'D)

### Entering And Exiting The Work Machine

#### Entering



#### AVOID INJURY OR DEATH

##### When operating the machine:

- Keep the seat belts fastened snugly.
- The arm rest must be lowered.
- Keep your feet and arms inside the cab.

W-2454-1102

Enter and exit the operator seat of the work machine from the left side.

**NOTE:** The left side of the work machine as viewed from the operator seat.

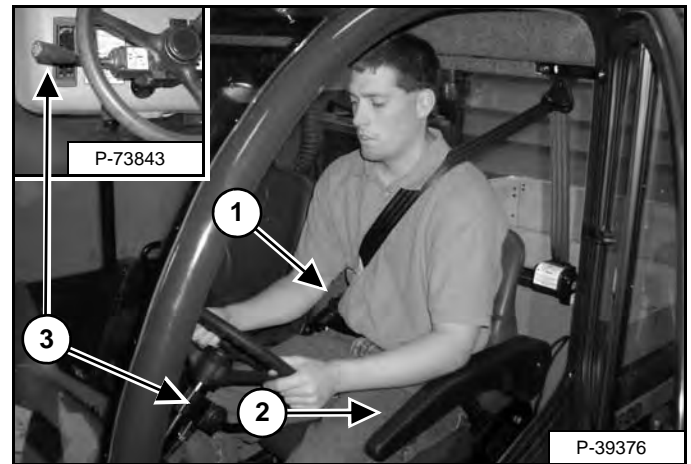
Figure 86



Enter the cab [Figure 86].

**NOTE:** Maintain three-point contact at all times while entering or exiting the work machine. Do not jump.

Figure 87



Fasten the seat belt (Item 1) and lower the operator arm rest (Item 2) [Figure 87].

Put the Travel Direction Control Lever (Item 3) [Figure 87] in "PARK".

See the work machine's Operation & Maintenance Manual and Operator's Handbook for detailed information on operating the work machine.

#### Exiting

Put the Travel Direction Control Lever (Item 3) [Figure 87] in "PARK".

Lower the lift arm and put the attachment flat on the ground.

Lower the implement to the ground (if equipped).

Stop the engine.

Raise the operator arm rest, unfasten seat belt and remove the key.

Exit the work machine.



#### AVOID INJURY OR DEATH

##### Before you leave the operator's seat:

- Lower the lift arm, put the attachment flat on the ground.
- Put Travel Direction Control Lever in PARK.
- Stop the engine.
- Raise operator arm rest.

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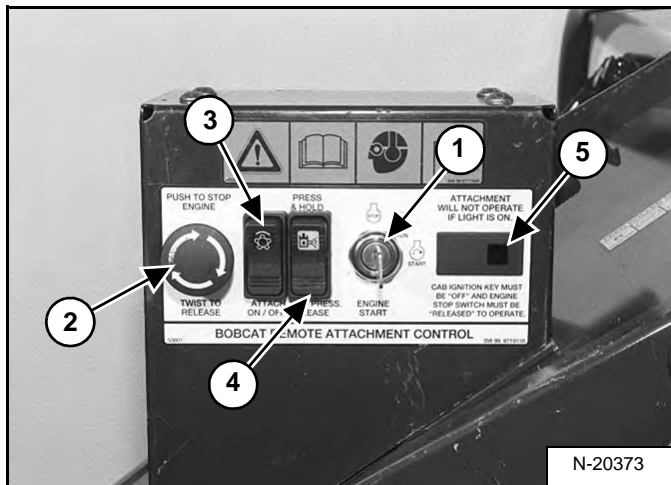
## OPERATING PROCEDURE WITH UTILITY WORK MACHINES (CONT'D)

### Control Functions (Cont'd)

#### Remote Attachment Control (Later Models)

This attachment is ONLY approved for use on Bobcat work machines equipped with an approved Interlock Control System and a Remote Attachment Control (RAC) Harness Kit.

**Figure 107**



The Remote Attachment Control (RAC) [Figure 107] allows the operation of the chipper from outside the operator cab. The operator can start and stop the chipper from outside the cab.

DO NOT enter or exit the work machine with the engine running.

The RAC is equipped with the following: [Figure 107]

1. **Key Switch (RAC)** - Allows the operator to start and stop the machine engine from outside the operator cab. If the work machine has been started with the cab key, turning this key to the run position will stop the engine. If the work machine has been started with the RAC key (Item 1) [Figure 107], turning the cab key to the run position will stop the engine. When the work machine has been started with the RAC key, the work machines lift, tilt and traction drive functions are inoperable.
2. **Engine Stop Switch** - Push to stop the engine. The engine stop switch will stop the engine when the work machine has been started with either the RAC key switch or the cab key switch. Turn the engine stop switch clockwise to release the switch.
3. **Attachment ON / OFF** - Push the top of the switch to activate the front auxiliary hydraulics which starts the chipper blade, rotation will start immediately. The light (Item 5) [Figure 107] will be ON. Push the bottom of the switch to disengage the front auxiliaries and stop the chipper.
4. **Hydraulic Pressure Release** - Push and hold the top of the switch to stop the engine and release hydraulic pressure.
5. **Operation Lamp** - This red light is ON if the work machine has been started with the cab key, or if the engine stop switch (Item 2) [Figure 107] is pushed in and activated. The RAC will not function if this light is on.

## OPERATING PROCEDURE WITH UTILITY WORK MACHINE (CONT'D)

### Operation With The Work Machine (Cont'd)

#### Chipper Operation (Cont'd)

## WARNING

### AVOID INJURY OR DEATH

Flying debris can cause serious injury or death and property damage.

- Keep bystanders away from discharge chute.
- Position discharge chute away from bystanders and other property when operating.
- Keep metal objects, rocks, bottles, cans and other foreign objects out of chipper.

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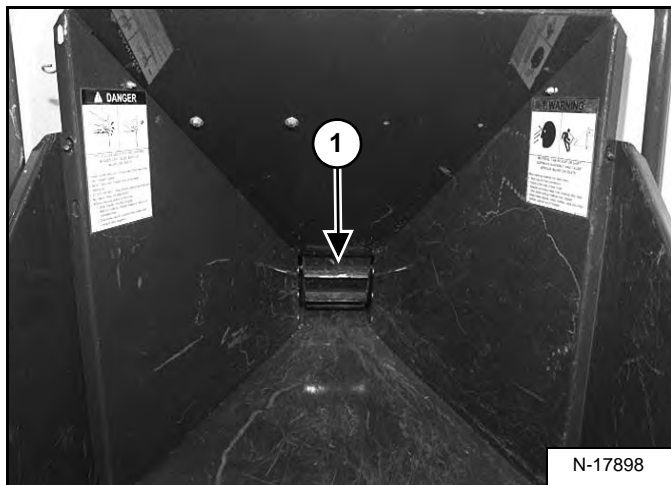
## WARNING

### AVOID INJURY OR DEATH

Feed the brush into the Chipper from the side of the feed table. Never stand in front of the feed table, or reach into the feed chute during operation.

W-2342-1298

Figure 130



If the brush gets caught in the feed roller (Item 1) [Figure 130] causing a jam, move the feed roller control to the reverse position.

The feed roller will reverse direction and back the brush out of the feed roller.

If the feed roller is still jammed, or clogged, stop the chipper and Machine engine. Wait for the rotating chipper blades to come to a complete stop. Disconnect the hydraulic hoses from the machine and connect the quick couplers together before cleaning the roller.

## DANGER

### FEED ROLLER AND ROTATING CHIPPER BLADES CAN CAUSE SERIOUS INJURY OR DEATH

- Keep hands, feet and clothing away from feed roller and chipper blades.
- Never climb onto chipper feed chute or table when operating.
- Do not overreach. Keep proper balance and footing.
- No riders. Keep off attachment.
- Before cleaning debris or servicing:
  1. Stop chipper and stop machine engine.
  2. Wait for rotating chipper blades to come to a complete stop.
  3. Disconnect quick couplers from machine and connect them together.

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When the feed table has an accumulation of small branches, place a larger branch in the chipper, to pull the small branches into the feed roller.

# MAINTENANCE SAFETY



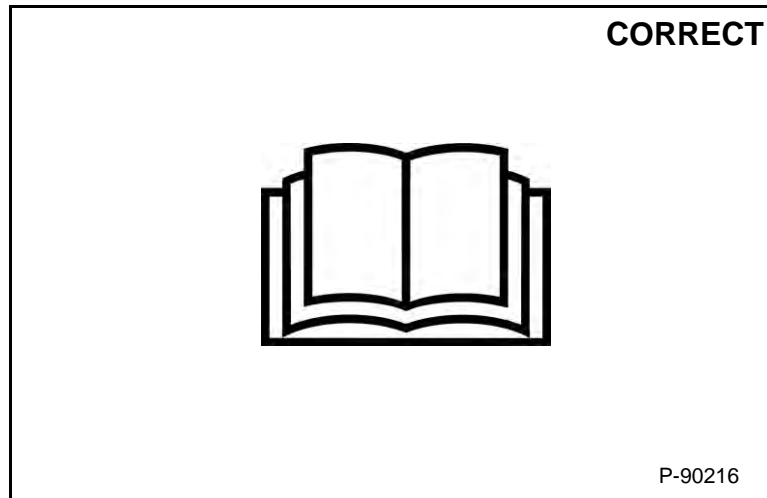
## WARNING









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.

## REMOVAL AND INSTALLATION OF CHIPPER BLADES (CONT'D)

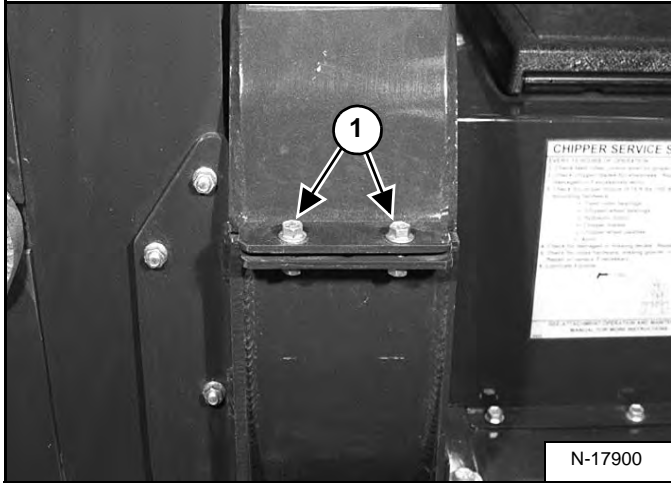
### Procedure (WC-8A)

Disconnect the hydraulic hoses.

The chipper is equipped with four blades.

Position the discharge chute to the side of the chipper.

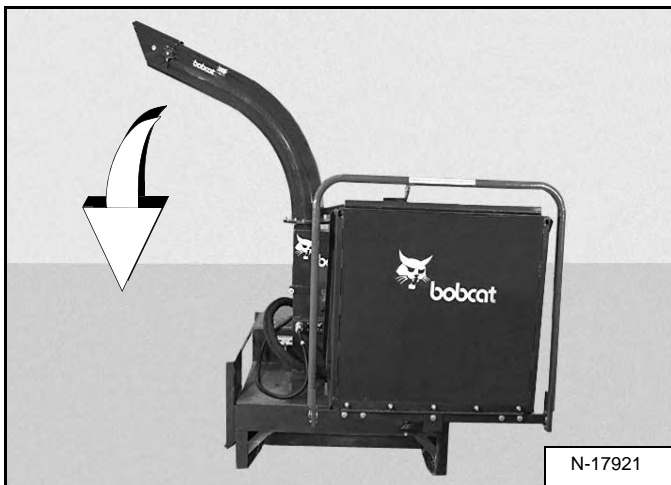
**Figure 167**



Remove the two bolts (Item 1) [Figure 167] and nuts.

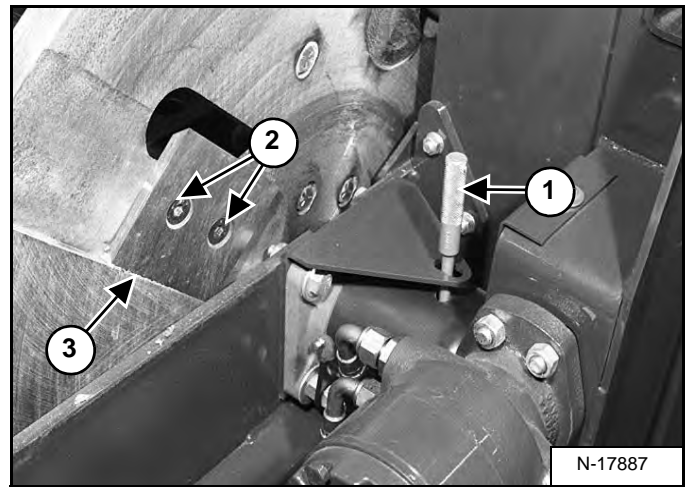
**Installation:** Tighten the bolts to 34 - 38 N•m (25 - 28 ft-lb) torque.

**Figure 168**



Tip the chute away from the chipper to raise the housing for access [Figure 168].

**Figure 169**



Install a punch (Item 1) [Figure 169] through the tab and into the hole in the chipper motor shaft. This will prevent the chipper from rotating while removing and installing the blade bolts.

Remove the two bolts (Item 2) [Figure 169] and nuts.

Inspect the bolts and nuts for distortion or damage when removing the blades. Replace any bolts or nuts that are damaged.

**Installation:** Tighten the bolts to 102 N•m (75 ft-lb) torque. Remove the punch (Item 1) [Figure 169].

Remove the blade (Item 3) [Figure 169].

The blades are reversible. When one cutting edge is dull, rotate the blade 180°.

When both sides of the blade are dull, remove the blade and have the blade sharpened by a qualified sharpening service. Replace the blade if damaged, cracked or excessively worn.

MACHINE SIGN TRANSLATIONS (CONT'D)

Danger (6717411)

**⚠ DANGER**



**ROTATING CHIPPER BLADES OR FLYING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH**

- Keep access cover closed and fastened with retaining bolts during operation.
- Before opening access cover for cleaning or service:
  1. Stop loader engine.
  2. Wait for rotating chipper blades to come to a complete stop.
  3. Disconnect quick couplers from loader and connect them together.

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**⚠ PELIGRO**



**LAS CUCHILLAS GIRATORIAS DE LA PICADORA O LOS OBJETOS DESPEDIDOS PUEDEN PROVOCAR LESIONES GRAVES O LA MUERTE**

- Mantenga la tapa de acceso cerrada y asegurada con los pernos de retención durante la operación.
- Antes de abrir la tapa de acceso para limpieza o mantenimiento:
  1. Apague el motor del cargador.
  2. Espere hasta que las cuchillas de la picadora se detengan completamente.
  3. Desconecte los acopladores rápidos del cargador y conéctelos entre sí.

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**⚠ DANGER**



**LE ROULEAU ENTRAINEUR ET LES DEBRIS PROJETES PEUVENT CAUSER DES BLESSURES GRAVES, VOIRE MORTELLES**

- Laissez la protection fermée et fixée avec des boulons de retenue durant le travail.
- Avant d'ouvrir la protection pour nettoyer ou entretenir :
  1. Arrêtez le moteur de la chargeuse.
  2. Attendez l'arrêt complet des couteaux rotatifs de la broyeuse.
  3. Débranchez les raccords rapides de la chargeuse et connectez-les ensemble.

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## SPECIFICATIONS

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