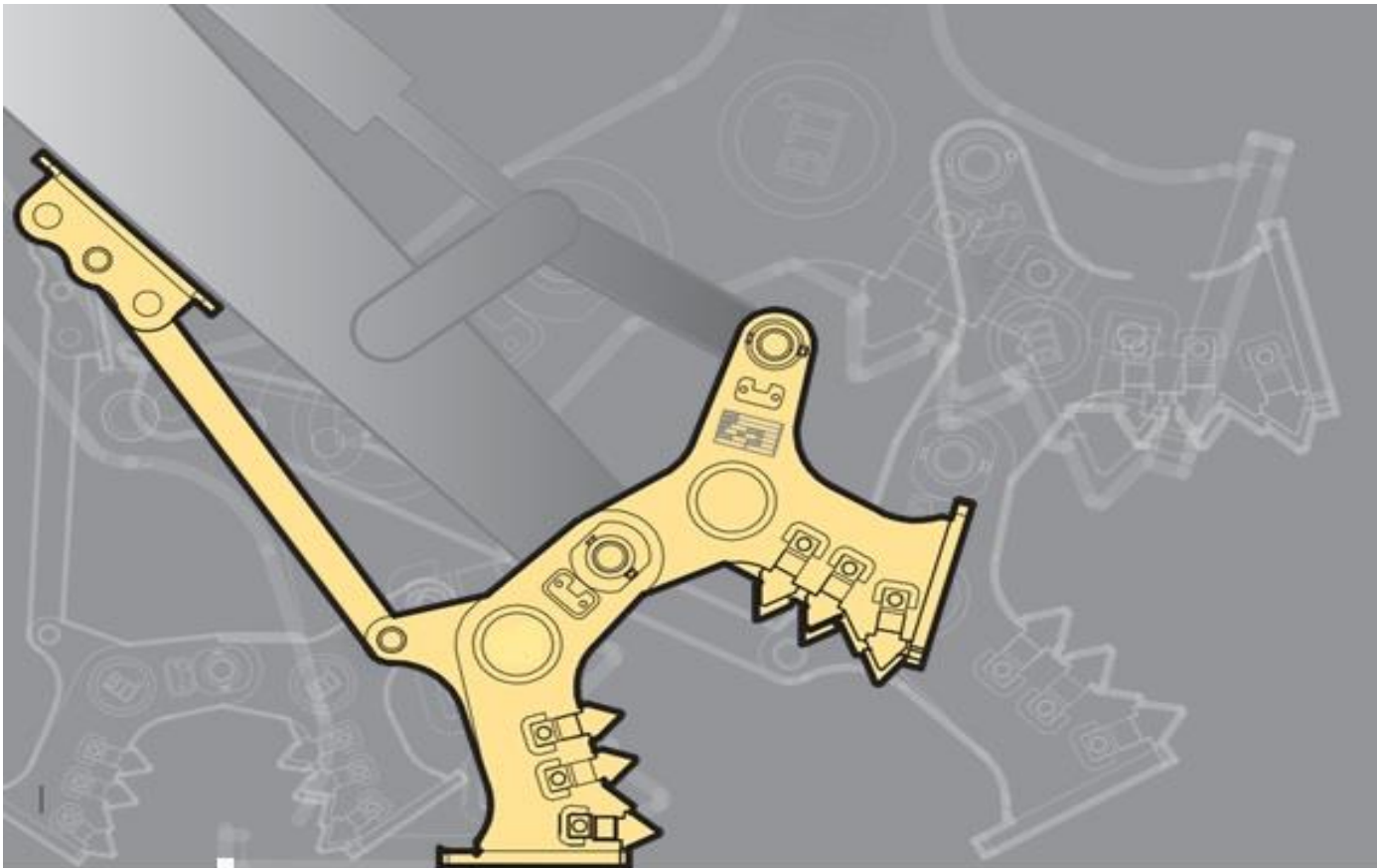




# Mechanical Pulverizer Owner's Manual



## **NG/C SERIES** **Operation and Parts**

### **Operation and Parts**

# Introduction

## To our customer

Thank you for purchasing a NG Engineering product for your application. At NG, we pride ourselves in the equipment we manufacture and distribute.

NG has led the way providing equipment and services for construction, aggregate and mining industries for over 12 years. Technology plays a critical role in the company's continued success. NG enjoys a reputation for engineering products with the most advanced technologies, yet the resulting systems are remarkably easy to use.

At NG, we believe our product is, without exception, the industry standard. Meticulous care has been taken to ensure that this product will meet rigorous product requirements. Using up-to-date CAD modelling software, complemented with finite element analysis, you can be satisfied that our product will meet and exceed your prerequisites. Our Thornbury facilities are ISO 9001:2008 compliant and are committed to continuous improvements translated into positive action.

We feel fortunate to say that our team consists of seasoned, long-term, dedicated employees. They are able to respond quickly from our strategically located sales and service locations to any questions you may have.



### **Turkey & International**

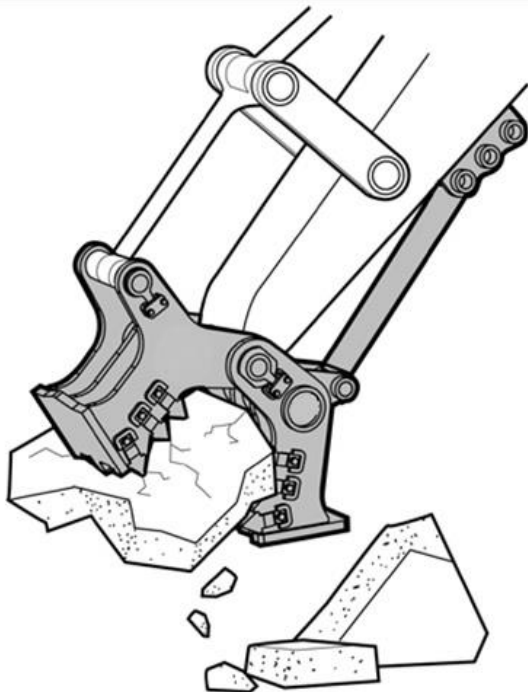
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**This book is intended as a guide to the use and maintenance of the NG Attachments. Keep it with the operator at all times.**

**Replace it immediately if it becomes lost.**

The NG Pulverizer uses existing excavator hydraulics, so no additional circuits are required. A moveable front jaw, actuated by the excavator's bucket cylinder, closes into the stationary back jaw. The back jaw is pinned in place with a position arm that is pinned to a mounting pad welded on the lower surface of the excavator's stick boom.

NG Mechanical Pulverizers are designed for quiet, controlled demolition and recycling of concrete structures. NG's concrete pulverizer models feature patented pin-on SWIFT LOCK teeth that allow field change-out in minutes.

**Some useful demolition applications are:**

- Concrete Bridge Decks
- Walls
- Floor Slabs
- Foundations
- Silos
- Culverts
- Pillars
- Encased Beams
- Pre-cast Structures
- Railings
- Concrete and Rebar Separation

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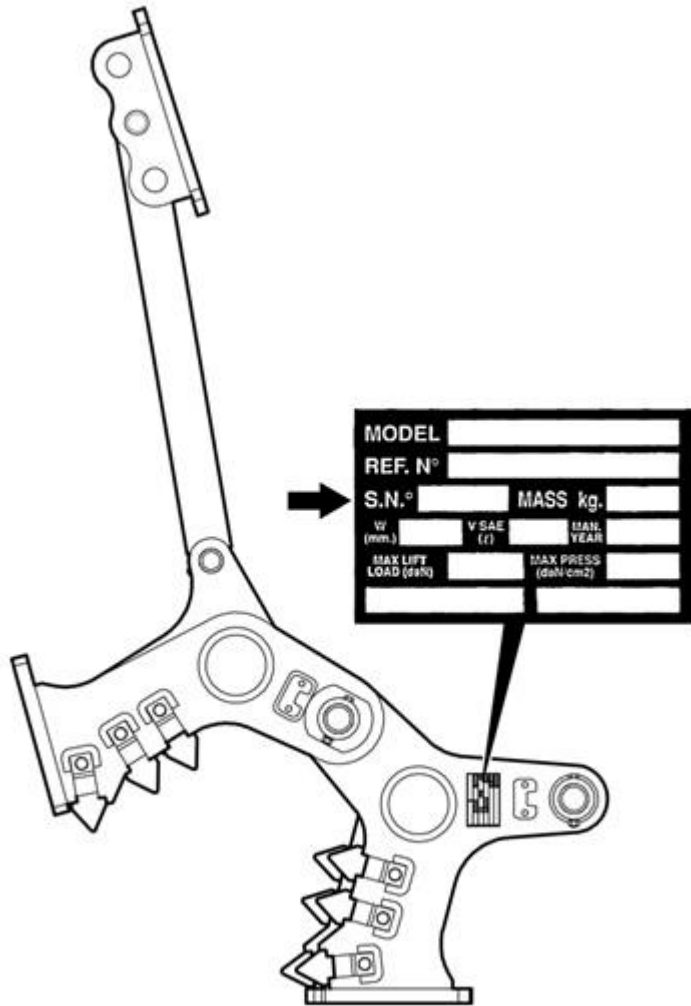
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# General Information

## Product Identification Plate

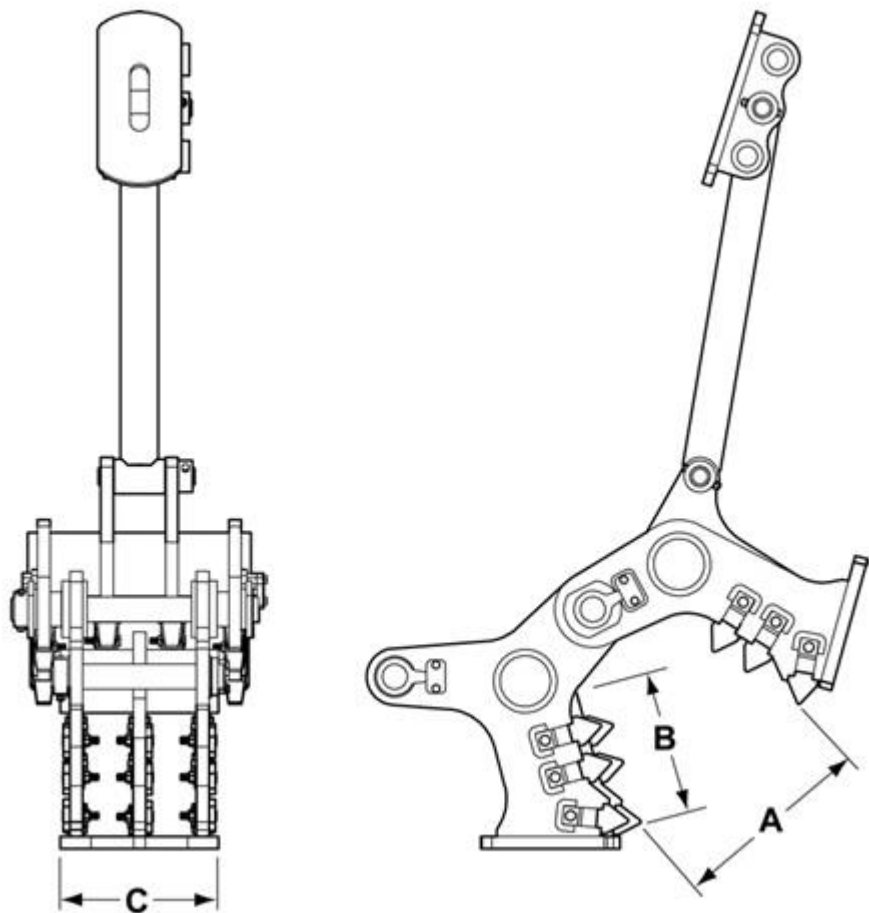
Always state the product serial number (S.N.) as shown on the identification tag below in any correspondence with NG or any authorized customer service center.

The tag is found in the right-hand side of the pulverizer frame.



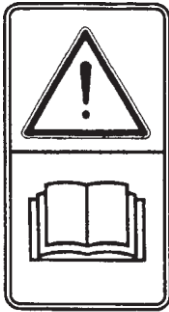
# Specifications

## Specifications



Model	Weight lb (kg)	Jaw Opening in (mm) A	Jaw Depth in (mm) B	Jaw Width in (mm) C
NG40CP	2,875 (1 304)	30 (762)	25 (635)	26 (660)
NG60CP	3,000 (1 361)	36 (914)	27 (686)	29 (737)
NG80CP	4,475 (2 030)	42 (1 067)	29 (737)	32.5 (825)
NG100CP	6,150 (2 790)	48 (1 219)	35 (890)	33 (838)
NG120CP	9,900 (4 491)	54 (1 372)	40 (1 016)	43.5 (1 105)
NG150CP	9,900 (4 491)	54 (1 372)	40 (1 016)	43.5 (1 105)

## Decals



10004

**! WARNING**

Read the Owner's Manual.



10005

**! WARNING**

Consult Owner's Manual for Service Procedures.



10006

**! WARNING**

Beware of Flying Objects.

**! WARNING**

Keep Safety Distance of 65 ft (20 m).



10007

Lift Point.

## Sizing the Pulverizer

The Pulverizer must be sized properly for the work it will need to do and the carrier it will be mounted to.

### Based on type of work

This is the most important item to consider when sizing a pulverizer – what it will need to do.

### Based on the carrier size

The carrier that is selected to operate the pulverizer must have the necessary oil flow and lift capacity to safely handle the attachment plus any material that may be held in the jaw.

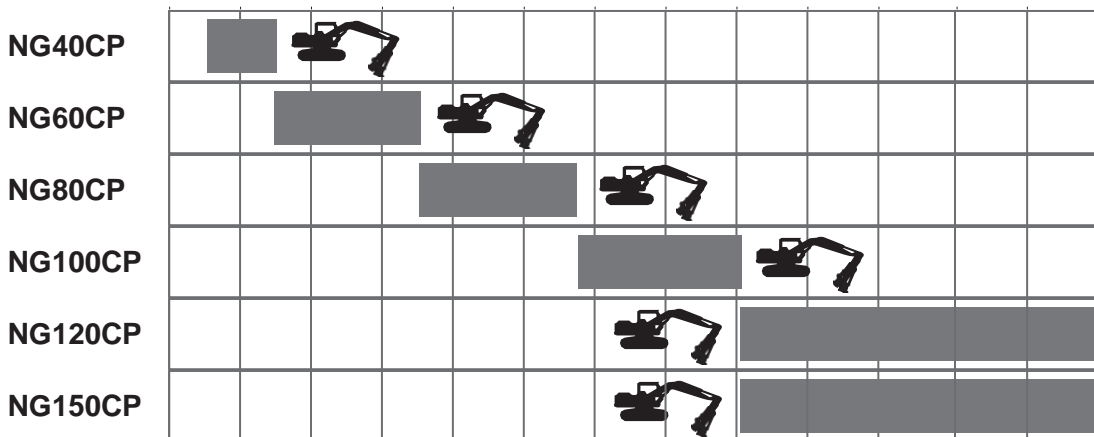
NG has assigned a recommended *Carrier Weight* range for each pulverizer (see Carrier Sizing Chart below). If the operating weight of the carrier falls within this range, the carrier will safely handle this model. If the desired pulverizer falls outside of this recommended carrier weight range, the carrier’s lifting capacity will need to be verified to ensure a proper fit.

Lifting Capacity: the maximum lifting capacity of the carrier at any position must be equal to or greater than 1.3 times the weight of the pulverizer. Consult the lifting specification of the excavator. The maximum lifting capacity is usually at the lowest when the boom is at full reach. This is the value that must be compared to the operating weight of the pulverizer.

### Carrier Sizing Chart

Used to compare pulverizer model to excavator weight range\*

	30	40	50	60	70	80	90	100	110	120	130	140	150	160
<b>MODEL</b>	(14)	(18)	(23)	(27)	(32)	(36)	(41)	(45)	(50)	(54)	(59)	(64)	(68)	(73)



\*Weight shown in thousands lb (kg)



## 8 Matching the Pulverizer to an Excavator

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### Matching the Pulverizer to an Excavator

The pulverizer is designed to mount as a third member in place of the bucket.

Before mounting the attachment to the machine, check that the machine will be stable when working. The lifting capacity of the excavator must be sufficient to meet essential safety requirements and prevent the excavator from turning over.

**To do this, we must determine that:**

Attachment weight (**P**) multiplied by the attachment correction factor (**K**) is less than or equal to minimum lifting capacity (**LC**) of the excavator.

$$P \times K \leq LC$$

For pulverizers,  $K = 1.2$

Minimum lifting capacity of the excavator (**LC**) is considered through 360° on the bucket pivot, taken from the technical data of the excavator or supplied by the excavator manufacturer. Calculated as indicated in standards ISO 10567-92. Refer to page 7.

#### CAUTION

To avoid subjecting the attachment to excessive stresses, do not fit the pulverizer to excavators with an operating mass exceeding the values shown in the table.

For installations that do not comply with the criteria shown, contact your BTI representative to carry out any verification necessary to ensure the safety of the combination.

**NOTE:**

If the lifting capacity is calculated according to the standards SAE/ Std. N. J1097 or DIN 15019 to obtain the LC minimum, the weight of the bucket should be added.

**NOTE:**

This condition guarantees the stability of the excavator ONLY when working on a firm, level, supported horizontal surface.

# Safety Rules

## General Safety Instructions

Safety begins with the operator. Reading and understanding this Owner's Manual is the primary source in maintaining optimum performance from the Pulverizer. It is imperative that the operator reads and understands all the safety information in this manual before proceeding.

NG cannot anticipate every possible circumstance that might involve a hazard. The hazard alerts in this publication and on the product are therefore not all inclusive. If a tool, procedure, work method, or operating technique not specifically recommended by NG is used, you must satisfy yourself that it is safe for you and others. You should also ensure the pulverizer will not be damaged or made unsafe by the operation, maintenance, or repair procedures you choose.

Make sure all decals are in good condition, and new components are labeled correctly. Contact your distributor or NG for replacement manuals or decals.

## Safety Alert Symbol



The symbol above appears at various points in the manual together with warning text. It means – be alert! Your safety is involved. This symbol is used throughout the manual to call attention to areas in which carelessness or failure to follow specific procedures may result in personal injury and/or component damage or malfunction.

It is the obligation of the operator to make sure that all warning decals are in place on the machine and that they are readable. Accidents may otherwise occur.

## Hazard Levels



### **DANGER**

Immediate hazards which **WILL** result in severe personal injury or death.



### **WARNING**

Hazards or unsafe practices that **COULD** result in severe personal injury or death.



### **CAUTION**

Hazards or unsafe practices that **COULD** result in minor personal injury or property damage.

**Personal Protection****! WARNING**

Know and use the protective equipment that is to be worn when operating or servicing the carrier. Hard hats, protective glasses, protective shoes, gloves, reflector type vests and ear protection are types of equipment that may be required.



10008  
Head  
Protection



Foot  
Protection



Eye  
Protection



Hearing  
Protection

**! WARNING**

Avoid loose fitting clothing, loose or uncovered long hair, jewelry, and loose personal articles. These can get caught in moving parts. Jewelry may also ground a live circuit.

- Do not operate or service the attachment unless you are qualified to do so.
- Never drive or operate any carrier while you are under the influence of alcohol or drugs.
- Consult your supervisor if you do not understand the Pulverizer Owner's Manual.
- Consult your carrier's safety manual and follow the rules outlined in it.

**General Safety Precautions****Machine Inspection**

Before using the pulverizer, complete a daily walk-around to identify any broken parts. Never adjust a pressure relief valve or other pressure-limiting device to a higher pressure than specified.

- Check to make sure hydraulic hoses are not worn or damaged, and are routed to avoid chafing.
- Replace any hydraulic hose immediately that shows signs of swelling, wear, leaks or damage before it bursts.
- Residual pressure may remain in the hydraulic system. Relieve all pressure before disconnecting hoses or tubes. Tighten all connections before applying pressure.

## Avoid high-pressure Fluids

### WARNING

Fluid escaping under pressure can penetrate the skin causing serious injury. Relieve all pressure before disconnecting hoses. Use a piece of cardboard to check for leaks. Do not use your hand.

- If skin penetration occurs, seek medical attention immediately.
- Always wear eye protection when working on the hydraulic system.
- Do not bend or strike high-pressure lines, tubes or hoses, or reinstall them in a bent or damaged condition.
- Leaking hoses must be replaced immediately. Clean up all oil spills.

## Avoid Unauthorized Machine Modifications

- Never substitute alternate parts not intended for the application. This can create hazardous situations or machine failure.
- NG Engineering must approve all attachment modifications. They could affect reliability and machine stability.

## Prevent Unintended Machine Movement

Stop engine before allowing anyone to approach machine. Be careful not to accidentally actuate control levers when co-workers are present.

## Prepare for Emergencies

Keep a first aid kit and multi-purpose fire extinguisher on or near the machine. Know how to use them and know where to get help.

Prevent combustible debris from collecting in tight corners of the machine. This debris by itself may not cause a fire; however, when mixed with fuel, oil, or grease in a hot or confined space, the danger of fire increases dramatically.

## Working on Painted Surfaces

Heated paint gives off poisonous gases. Therefore, paint must be removed from an area with a radius of at least 4 in (10 cm) before carrying out welding, grinding or gas cutting. In addition to the health hazard, if the paint is not removed, the weld will be of inferior quality and strength that could cause the weld to eventually break.

### Methods and precautionary measures when removing paint:

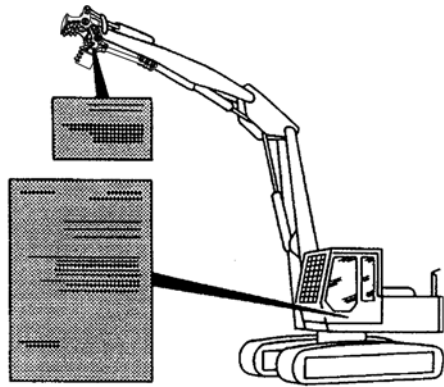
**Blasting** – use respiratory protective equipment and protective goggles.

**Paint remover or other chemicals** – use a portable air extractor, respiratory protective equipment and protective gloves.

**Grinding** – use a portable air extractor, respiratory protective equipment and protective gloves and goggles.



# 12 Hazard Alerts

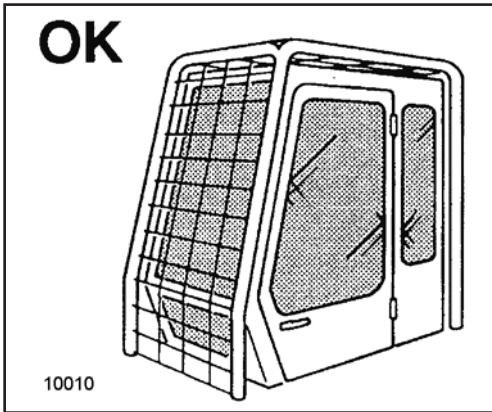


10009

## Hazard Alerts

### WARNING

The pulverizer should only be mounted to excavators whose lifting capacity is greater than the minimum value shown on page 5 of this Owner's Manual.



10010

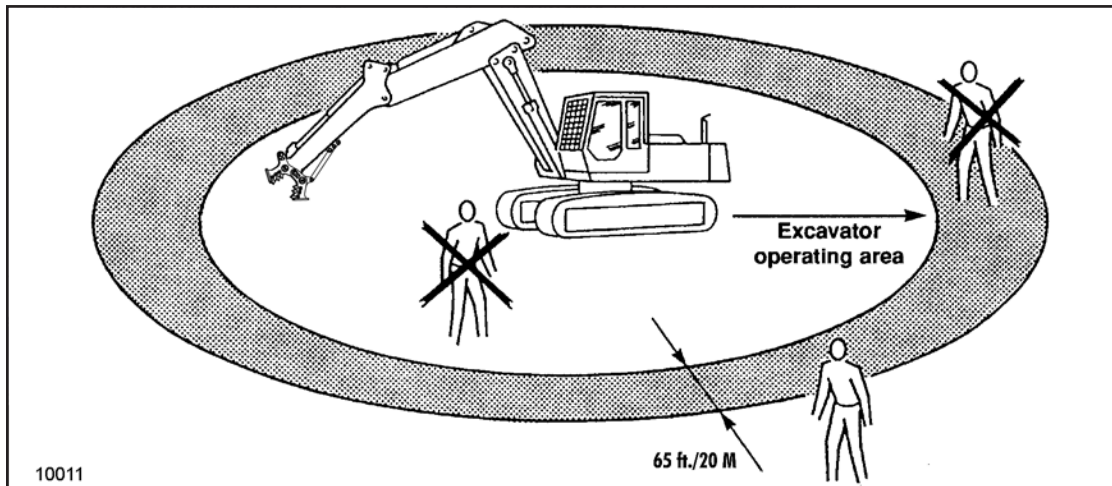
### WARNING

When working overhead, always be aware of the possibility of falling blocks or material fragments. Ensure that the machine is equipped with the necessary protection and that the cab is of the F.O.P.S. (Falling Object Protective Structure) type.

### WARNING

Keep a minimum distance of 65 ft (20 m) from the excavator operating area.

Protect bystanders from the working area to prevent injuries. Proceed carefully when moving the excavator.



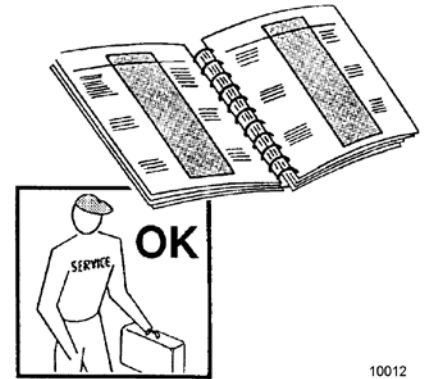
10011

**! WARNING**

The pulverizer must only be used by a skilled operator who has read and understood the Owner's Manual.

**! WARNING**

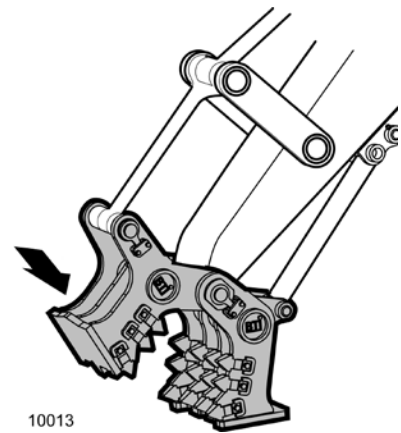
Do not allow any unauthorized person to operate or carry out any type of maintenance.



10012

**! WARNING**

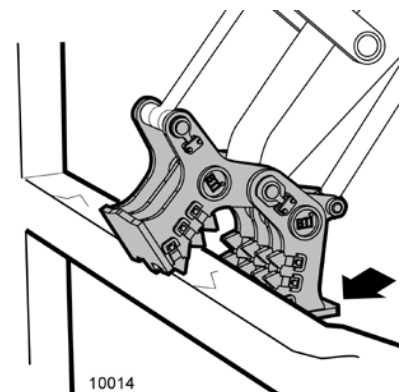
In any dangerous situation, the operator must release the pulverizer grip immediately.



10013

**! WARNING**

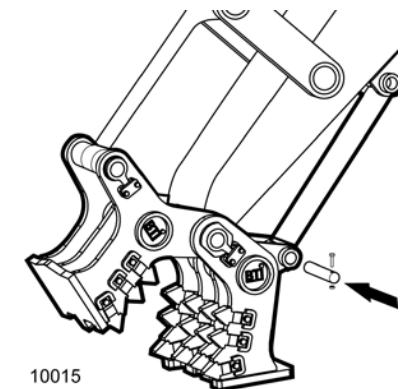
Do not use the pulverizer to execute maneuvers other than the opening and closing of the jaws. If necessary, reposition the pulverizer.



10014

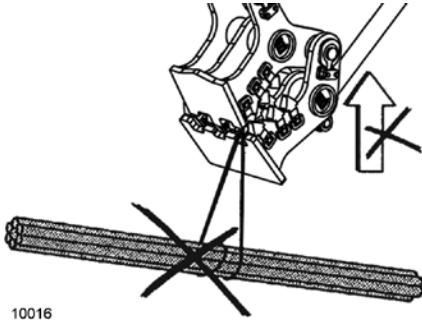
**! WARNING**

The pulverizer must be used only on the condition that it has been installed correctly using the attachment bracket and pins.



10015

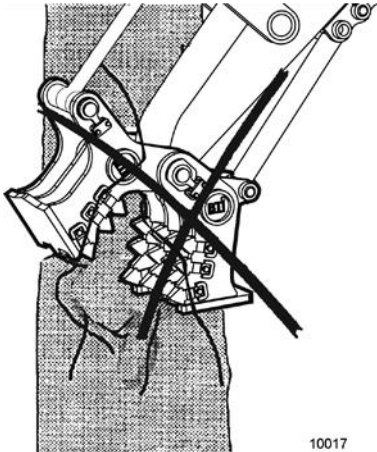
# 14 Hazard Alerts



10016

## WARNING

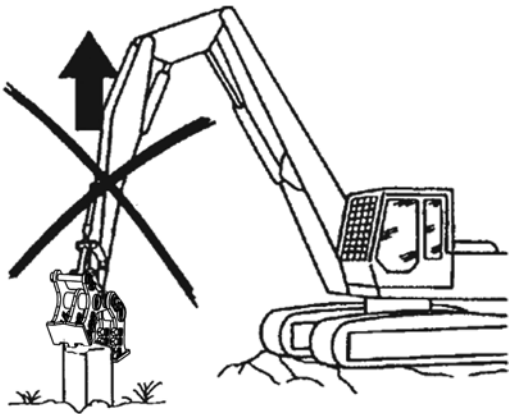
Do not use the pulverizer for lifting, hammering, or transporting materials.



10017

## WARNING

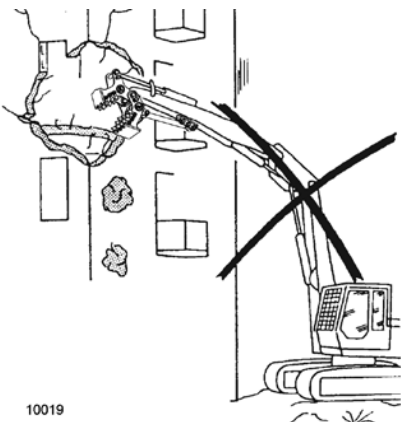
If the pulverizer becomes entangled in the reinforcement bars of the structure being demolished, free it before proceeding.



10018

## WARNING

Do not use the pulverizer for lifting or for extracting pieces driven in the ground.



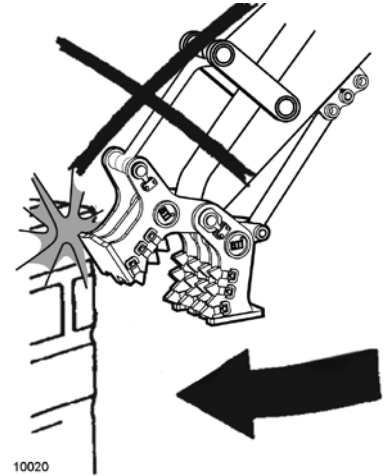
10019

## WARNING

Do not begin demolition work from lower parts of a structure. The upper part could collapse.

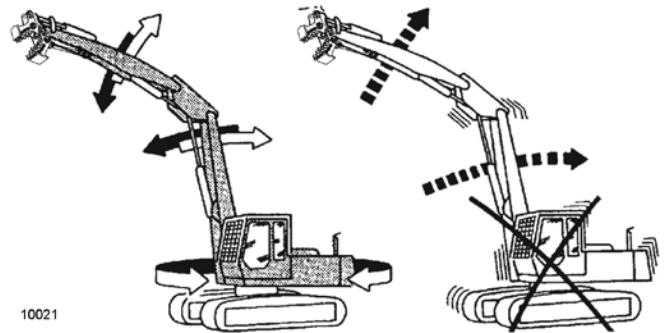
**! WARNING**

Do not use the pulverizer to hammer against the structure being demolished.



**! WARNING**

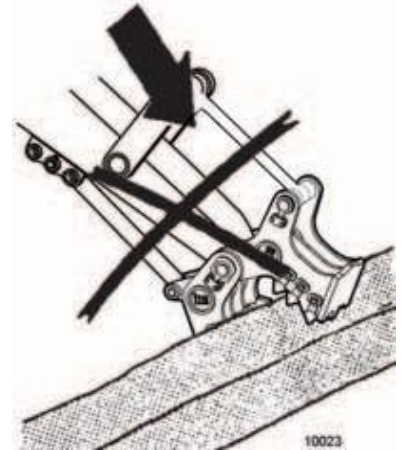
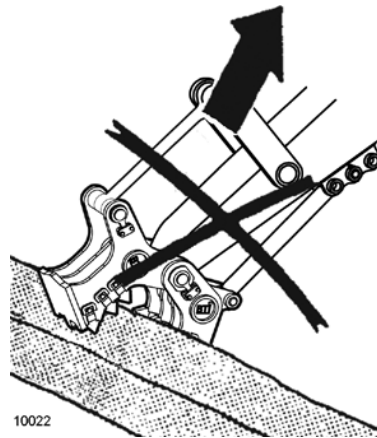
The excavator boom must be moved safely with slow, accurate movements. Avoid sudden movements.



**! WARNING**

Do not use the pulverizer to:

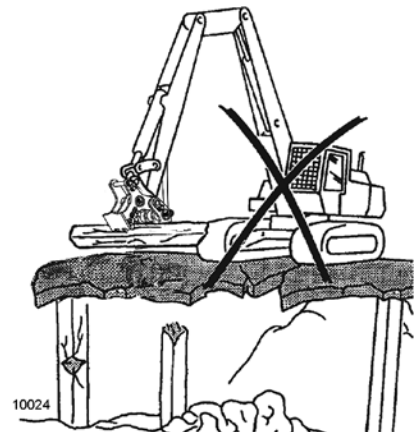
- Pull
- Push
- Push sideways
- Hammer
- Strike

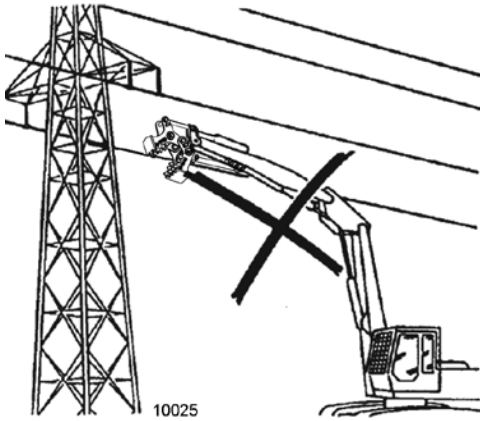


**! WARNING**

Ensure that the structure supporting your machine is strong enough to support its weight.

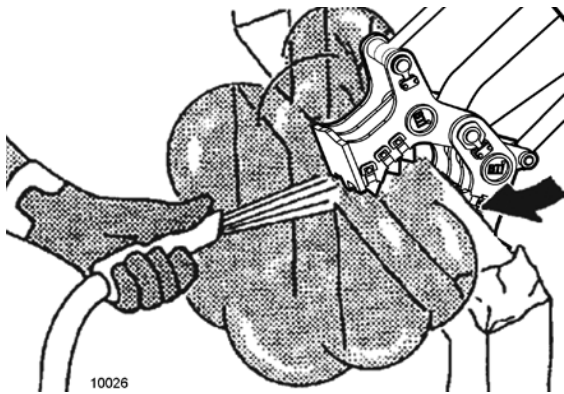
Danger of falling!





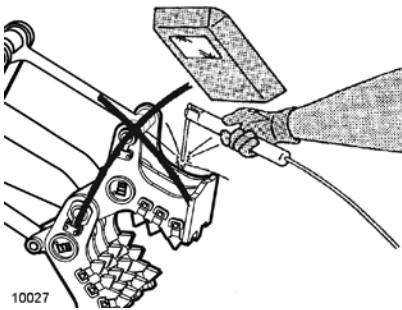
**! WARNING**

Stay a minimum of 30 ft (9,1 m) away from overhead wires with any part of the machine.



**! WARNING**

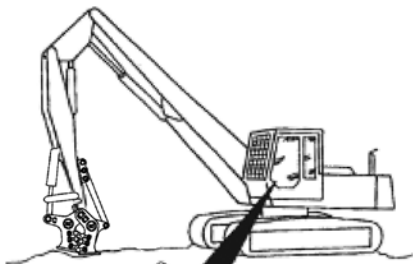
To keep dust at a minimum during operation, spray the work area with water.



**! WARNING**

No adaptations or modifications to the pulverizer are allowed unless agreed upon by the manufacturer. Written approval must be received beforehand.

Check the carrier owner's manual. Further precautions may be required.



**! WARNING**

All operations of adjustment, maintenance, repair or cleaning must be made with the engine OFF and the attachment resting firmly on the ground.

Fasten a "DO NOT OPERATE" or similar tag in the cab.



10028

## WARNING

When carrying out maintenance or transporting procedures, take care to place the pulverizer in a stable position.

The relative movement of various parts should be prevented using ties, supports, blocks etc.

## CAUTION

Use only original NG spare parts.

## Transporting

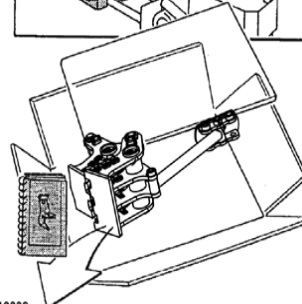
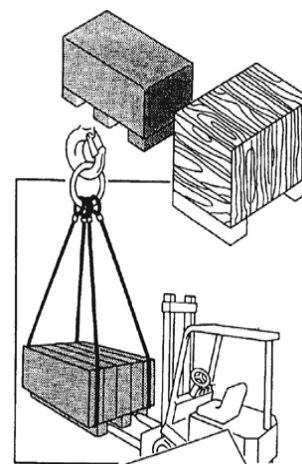
The pulverizer may be shipped on a skid or in a crate, depending on the destination and the customer requirement.

## WARNING

For lifting and transporting to the installation site, use adequate sling ropes or a fork lift.

Note component weight on identification tag, on outside of crate, or refer to Specifications page 5.

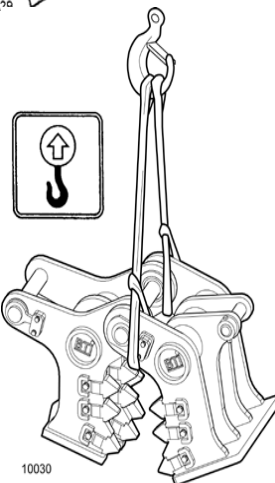
- Use proper slinging procedures.
- Keep a copy of the Owner's Manual in the machine cab for the use by the operator. If additional copies are required, contact your NG representative.



10070

## WARNING

Lift the pulverizer with sling ropes of suitable capacity at the correct lift points. Refer to Specifications page 5 for attachment weight.



10030

# 18 Pulverizer Jaw Installation

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## Installation

### Pulverizer Jaw Installation

- Locate pulverizer in front of excavator with main pin in-line with stick main pin

**NOTE: Locate stiff arm towards excavator**

- Remove bolts/pin-retainer securing pulverizer main pin.
- Pull out pin far enough to allow excavator stick to fit between bushings.

**NOTE: Pulverizer is designed to remain intact with main pin removed.**

- Adjust pulverizer and stick to align main pin.



### CAUTION

**Improper alignment may damage bronze bushings.  
Do not force the pin; re-check its alignment instead.**

- Insert main pin.
- Install pin retainer and bolts.
- Pull out link pin.
- Install existing linkage and insert pin.
- Install pin retainer and bolts.
- Lubricate all grease fittings

## Stiff Arm Installation

Adjust excavator stick and pulverizer to achieve desired working position.

**NOTE: Consider link/hydraulic cylinder extension limits, comfort of operation, and type/size of material being pulverized.**

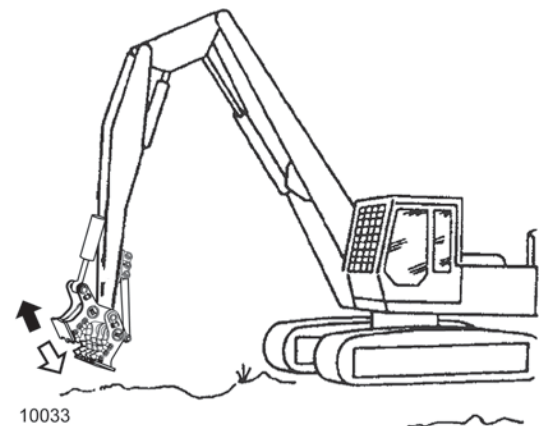
- Attach stiff-arm to pulverizer and to *center* pin position of upper stick mount.
- Swing up stiff arm until upper stick mount is in desired position on stick.
- Tack-weld in place and verify position.
- Fully weld upper stick mount to stick boom.

Start up the excavator.

With the motor idling, perform the following:

- Open the pulverizer one quarter of the way and re-close.
- Open halfway and re-close.
- Open 3/4 of the way and re-close.
- Finally, open completely and re-close.

Open and close the pulverizer 5 or 6 times making sure it is operating properly.

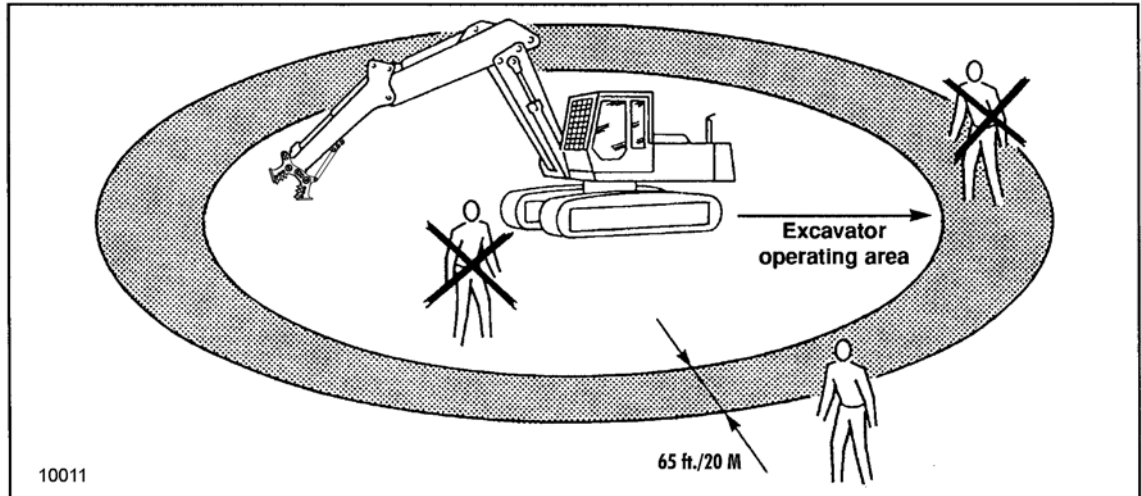


# Operation

## First time use

Before using the pulverizer for demolition work, take the machine to an open space free of obstacles (and people) and practice several dry cycles in order to become familiar with the attachment.

The pulverizer may now be used for demolition work.



## Pulverizer Operation

- Place the open jaw over the material to be broken. Allow the material to enter into the jaw as far as possible.
- Close the jaws allowing the teeth to penetrate the material.
- Continue to close until the jaws come to a stop and will go no further.

If the unit does not break the material, open and reposition taking a smaller bite. Results can be achieved by using an "on-again, off-again" action.

Once the material has broken, continue working the jaw until the material has been crushed to the desired size and all reinforcing steel has been completely separated from the concrete.

# Maintenance

To keep your pulverizer in top operating condition, perform the following maintenance procedures. Keep in mind that lubrication is the single most important procedure for sustaining the life of a pulverizer.

 **CAUTION**

**Use proper grease.**

Always use a moly-based grease. Refer to accompanying chart page 22. Never use general purpose (GP) grease. Heat will cause it to melt and run down the attachment providing very poor lubrication.

 **CAUTION**

**Grease often.**

Failure to lubricate regularly reduces the life of the attachment, bushings, and pins.

All operations of adjustment, maintenance, repair or cleaning must be made with the engine off and the attachment resting firmly on the ground.

Fasten a “DO NOT OPERATE” or similar tag in the cab.

 **CAUTION**

**After performing underwater demolition work, disassemble all of the joints. Clean the pins and bushings thoroughly and eliminate any traces of oxidation.**

## Every 8 Hours/Every Shift

	Grease all hinges and replace any damaged grease fittings.
	Check all pin connections for broken bolts, collars, and for excessive wear and play.
	Grease all pin connections with a moly-grease as stated on page 22.
	Check the pulverizer housing and stick mount for loose bolts and cracks.
	Check all cylinder and boom connection pins for wear.
	Check that teeth fixing screws are in place and tight using a torque wrench. See Tightening Torques, page 23. Screws can only be tightened once. After this they must be replaced.
	Tighten all screws connecting the joint with the fixed body according to the torque values. See Tightening Torques, page 23. Remember that these screws can only be tightened once. After this, they must be replaced.
	After washing the pulverizer, grease all hinge points with appropriate grease.

## 22 Grease Specifications

### Every 40 hours

<input type="checkbox"/>	Check to ensure Dust Cover O-rings are in good condition and in correct position.
<input type="checkbox"/>	Check the wear of the teeth. If necessary replace and torque screws to values shown in the table on page 23.

### Every 200 hours

<input type="checkbox"/>	The pulverizer should be washed thoroughly with a neutral detergent. The grease all hinge points after washing.
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### Every 1000 hours

<input type="checkbox"/>	Measure all pin connections for wear. Replace pins, bushings and/or thrust washers to ensure tight connection.
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## Grease Specifications

Use a high performance, multipurpose, extreme pressure (EP2) lithium complex grease with molybdenum disulfide (3 to 5%) developed to satisfy the severe lubrication requirements of off-road equipment.

These requirements will handle the toughest of lubricating jobs and last significantly longer than conventional greases. Wear, galling or seizing of greased surfaces can occur even when using high performance greases. During these extreme pressure conditions, the molybdenum disulfide particles are left behind on the surface in a thin, adherent, lubricating film.

This grease will have an excellent resistant to water washout in equipment operating under wet conditions and /or high temperatures and subject to heavy or shock loading.

### These greases have:

- High dropping point (>500°F or 260°C)
- High load-carrying capacity
- Excellent wear protection
- Excellent resistant to water washout
- Excellent resistant to separation
- Protection against rust and corrosion

### Some examples of these greases:

- Castrol Contractor Grease 2
- Conoco Superlube M EP
- Exxon Centaur Moly
- Pennzoil Multipurpose EP 302
- Petro Canada Precision Moly EP 2
- Texaco Starplex Moly MPGM2
- Gulflex Moly EP 2
- Chesterton 613 Moly Grease

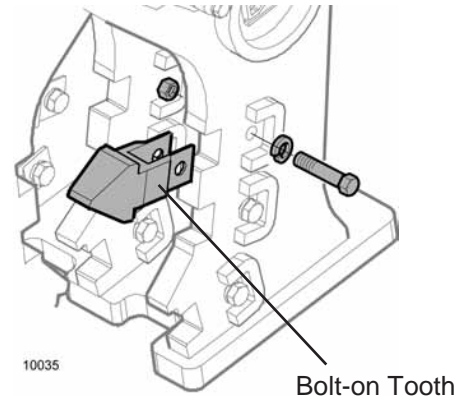


10034

## Interchangeable Teeth

NG's unique replaceable bolt-on tooth design ensures maximum penetration and fragmentation of material, while being fast and easy to change in the field.

Remove the securing bolt to change the bolt-on teeth. On installation, refer to Tightening Torques below.



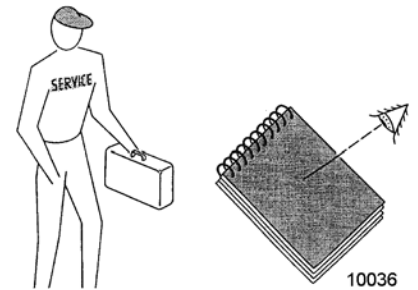
## Tightening Torques

### WARNING

Skilled personnel should perform this operation using a torque wrench.

Check these bolts every eight successive hours. Verify that they have not slackened or show signs of damage.

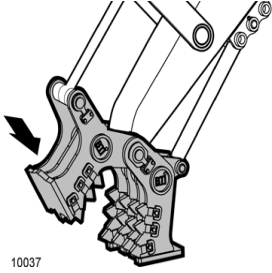
The bolts may be retightened only once, after that it is recommended they be replaced.



Fastener Tightening Torque in ft•lb or (in•lb)						
Diameter	Grade 5		Grade 8		Socket Head Cap	
	Dry	Lubed*	Dry	Lubed*	Dry	Lubed*
1/4-20	(101)	(76)	(143)	(107)	(168)	(120)
1/4-28	(116)	(87)	(147)	(123)	(192)	(144)
5/16-18	(209)	(157)	(295)	(221)	(348)	(264)
5/16-24	(231)	(174)	(327)	(245)	(384)	(288)
3/8-16	(372)	(276)	44	33	51	38
3/8-24	(420)	(312)	49	37	58	43
7/16-14	49	37	70	52	81	61
7/16-20	55	41	78	58	91	68
1/2-13	75	57	106	80	124	93
1/2-20	85	64	120	90	140	105
5/8-11	150	113	212	159	238	179
5/8-18	170	127	240	180	270	202
3/4-10	267	200	376	282	423	317
3/4-16	297	223	420	315	472	354
7/8-9	429	322	606	455	682	511
7/8-14	474	355	669	502	752	564
1-8	644	483	909	681	1022	767
1-12	722	542	1020	765	1147	860

\* Lubed — cleaned, dry bolts lubricated with a standard medium viscosity machine oil.

# 24 Stopping and Disassembly



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## Removal and Storage

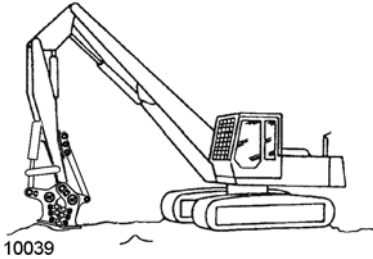
### Stopping and Disassembly

At the end of the job, perform the following before removing the pulverizer and putting it away:

With the excavator engine running, close the pulverizer.

Place the pulverizer vertically on a flat surface on the ground.

Put the excavator in its resting position and turn the engine off.



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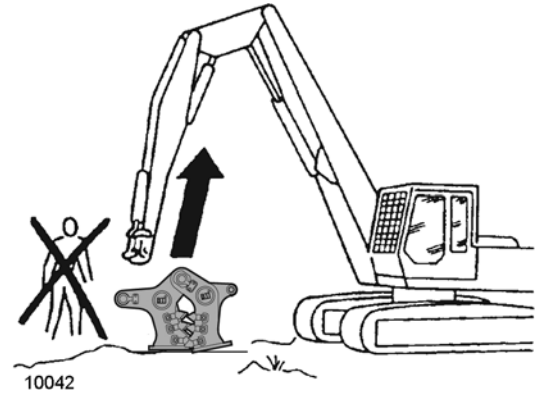
Remove the retaining bolts and stiff arm pins, then remove the stiff arm.

Remove the safety devices from the stick and link arm pins then remove the pins.

Move the stick to pull it out of the attachment bracket; make sure there is no one near the working area.

**CAUTION**

Make sure bystanders stand clear.

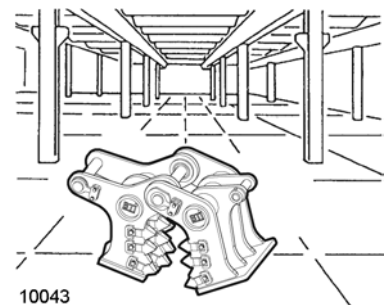


**WARNING**

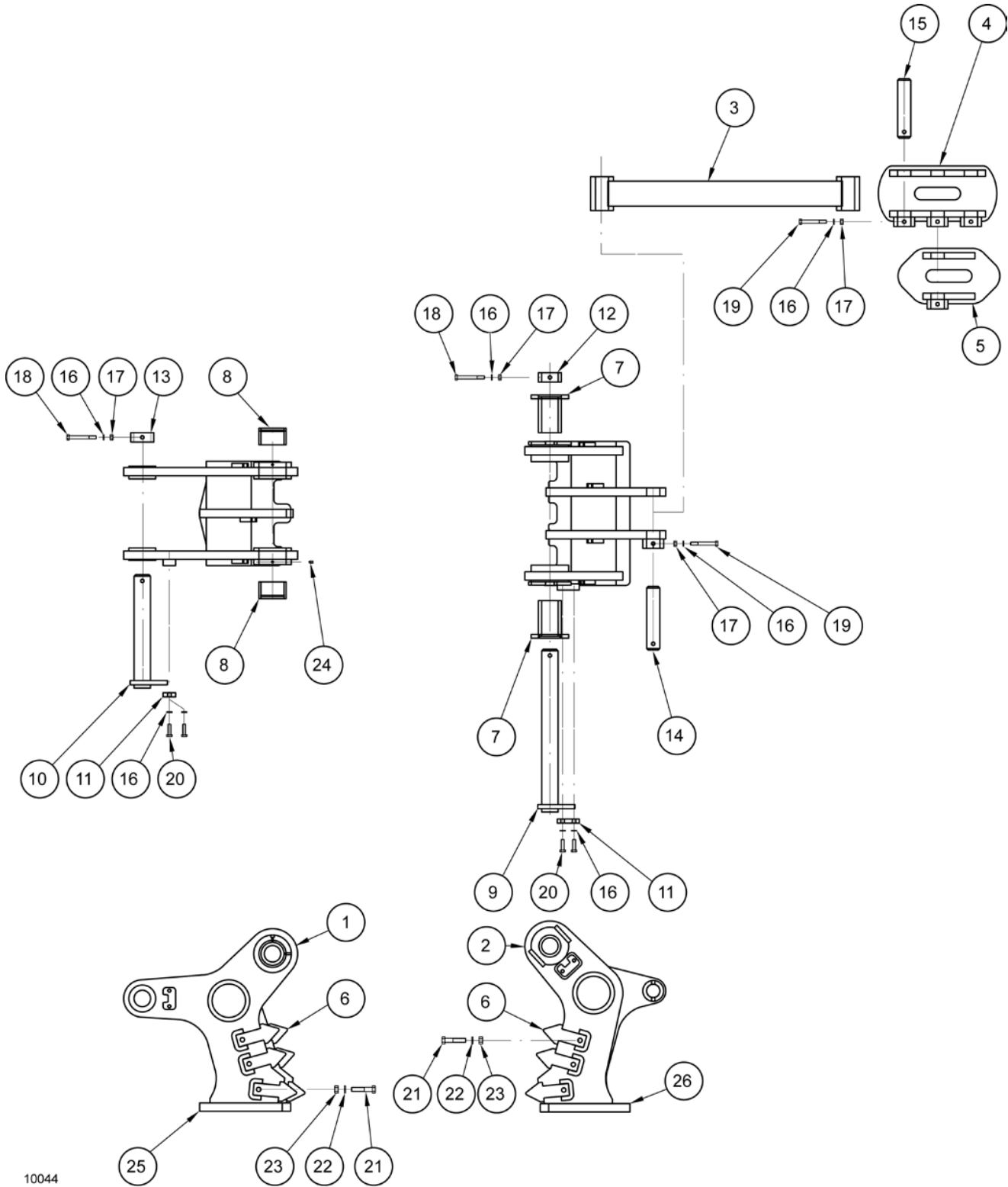
Lift the pulverizer with sling ropes of suitable capacity at the correct lift points.

Refer to page 5 for attachment weight.

Place the pulverizer in a dry place under cover.  
This concludes the removal and storage operations.



NG80CP Mechanical



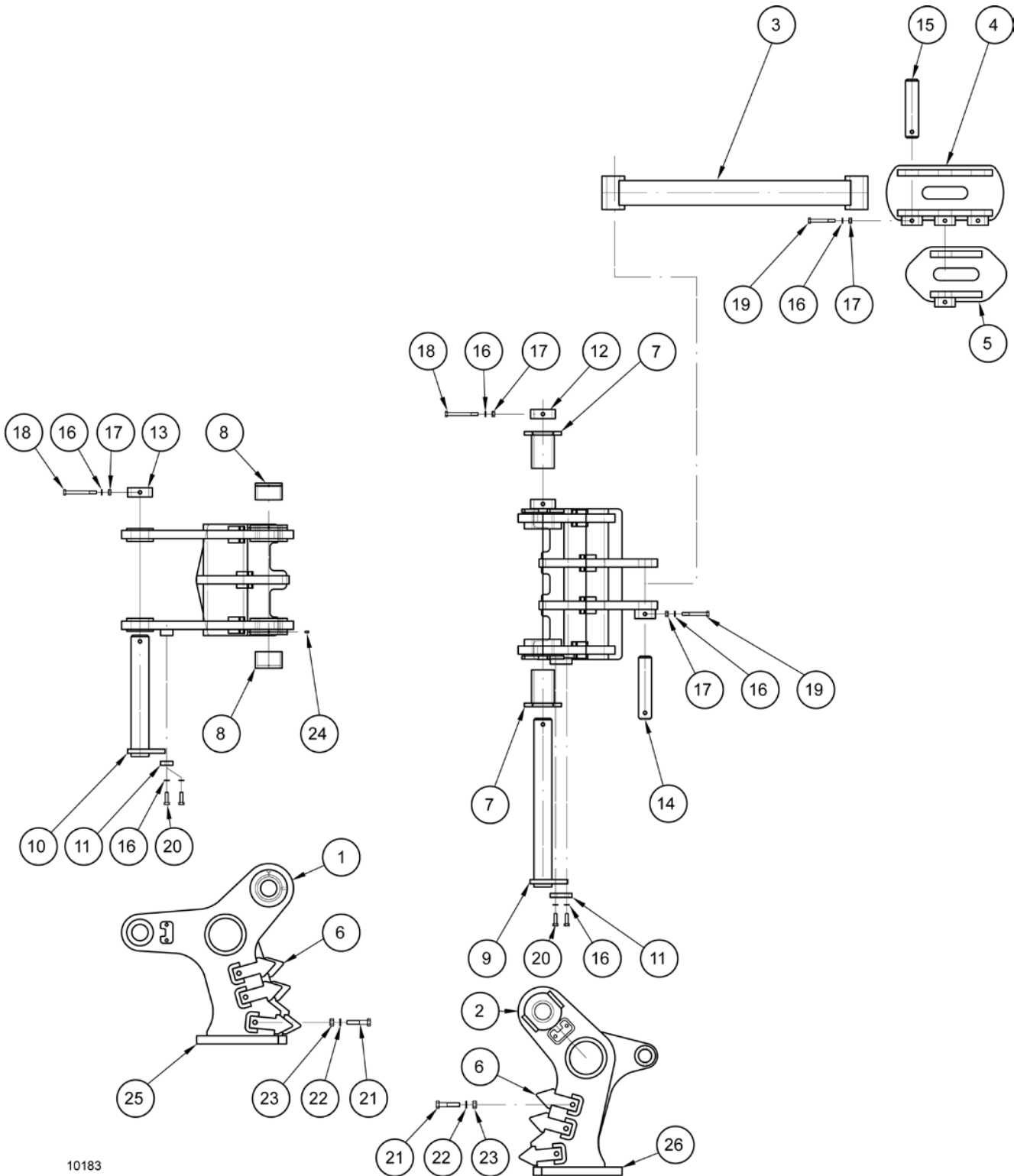
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## NG80CP

## Mechanical

Item No.	Part No.	Description	Qty.	Remarks
1	31-0001	Pulverizer Main Jaw	1	
2	31-0002	Pulverizer Stiff Jaw	1	
3	31-0003	Stiff Arm	1	
4	31-0004	3-pos Upper Stick Mount	1	
5	31-0005	1-pos Upper Stick Mount	1	
6	37-0119	Bolt-on Tooth	21	
7	27-0003	Sleeve	2	
8	27-0001	Bronze Bearing	2	
9	27-0002	Main Pin	1	
10	27-0004	Curl Pin	1	
11	27-0005	Pin Retainer	2	
12	27-0006	Floating Collar, Main Pin	1	
13	27-0007	Floating Collar, Curl Pin	1	
14	27-0008	Lower Stiff Arm Pin	1	
15	27-0009	Upper Stiff Arm Pin	1	
16	41-0001	3/4" Helical Lock Washer	8	
17	44-0016	3/4"-10 Hex Nut, Grade 8	4	
18	42-0024	3/4"-10 X 6.5" Lg Hex Bolt, Gr. 8	2	
19	42-0006	3/4"-10 X 6.0" Lg Hex Bolt, Gr. 8	2	
20	42-0029	3/4"-10 X 2.0" Lg Hex Bolt, Gr. 8	4	
21	42-0026	1"-8 X 5.0" Lg Hex Bolt, Gr. 8	21	
22	41-0002	1" Helical Lock Washer	21	
23	44-0010	1"-8 Hex Nut, Grade 8	21	
24	56-0001	1/2"-13 X 5/" Lg Cone Pt. Set Screw	4	
25	31-0006	Main Bottom Plate Prog 27015	1	
26	31-0007	Passive Bottom Plate Prog 27014	1	

**NG100CP** | **Mechanical**



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## NG100CP

## Mechanical

Item No.	Part No.	Description	Qty.	Remarks
1	31-0011	Pulverizer Main Jaw	1	
2	31-0012	Pulverizer Stiff Jaw	1	
3	31-0003	Stiff Arm	1	
4	31-0004	3-Pos Upper Stick Mount	1	
5	31-0005	1-Pos Upper Stick Mount	1	
6	37-0119	Bolt-On Tooth	21	
7	27-0019	Sleeve	2	
8	27-0020	Bronze Bearing, 3.95" Lg	2	
9	27-0021	Main Pin	1	
10	27-0022	Curl Pin	1	
11	27-0005	Pin Retainer	2	
12	27-0023	Floating Collar, For Main Pin	1	
13	27-0023	Floating Collar, For Curl Pin	1	
14	27-0008	Lower Stiff Arm Pin	1	
15	27-0009	Upper Stiff Arm Pin	1	
16	41-0001	3/4" Helical Lock Washer	8	
17	44-0016	3/4"-10 Hex Nut, Grade 8	4	
18	42-0070	3/4"-10 X 7.5" Lg Hex Bolt, Gr. 8	2	
19	42-0006	3/4"-10 X 6.0" Lg Hex Bolt, Gr. 8	2	
20	42-0029	3/4"-10 X 2.0" Lg Hex Bolt, Gr. 8	4	
21	42-0026	1"-8 X 5.0" Lg Hex Bolt, Gr. 8	21	
22	41-0002	1" Helical Lock Washer	21	
23	44-0010	1"-8 Hex Nut, Grade 8	21	
24	56-0001	1/2"-13 X 1" Lg Cone Pt Set Screw	2	
25	31-0009	Main Bottom Plate Prog 28227	1	
26	31-0010	Passive Bottom Plate Prog 28222	1	

## 30 Warranty

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Revised 10/01

# Warranty

- 1) NUR GROUP ENGINEERING. Company (hereinafter referred to as “NG”) warrants this product against defects in materials and workmanship for a period of Six (6) months or 1000 hours from the date of installation, or nine (9) months from the date of shipment, whichever comes first. This warranty does not cover teeth or other items considered normal wear items. These are covered for manufacturers’ defects under a Limited Warranty period of thirty (30) days. Warranty for propriety items such as installation kits and components that are not manufactured by BTI, will be governed by the warranty terms of their manufacturer. This warranty is void if BTI’s standard installation specifications and procedures are not adhered to.
- 2) NG will authorize return of any defective components or sufficient evidence of such defect to a NG warehouse. Such components or such evidence must clearly show that the defect was caused by faulty material or poor workmanship. Warranty claim will be accepted only if it is submitted on a proper claims form with proof of purchase and received within sixty (60) days from the date of discovery of the defect. Warranty claims will be considered only if the “Installation Notice” has been duly filled in and returned to NGG within thirty (30) days from the date of installation.
- 3) NG will at it’s option, repair or refurbish the defective part(s) without charge to the initial user or may elect to issue full or partial credit toward the purchase of a new part(s). The extent of credit issued, which will be in the form of a “Credit Memo”, will be determined by pro-rating against the normal life of the part(s) in question.
- 4) NG is not responsible for mileage, travel time, travel expenses, overtime labor, and any freight expenses required to facilitate the repair.
- 5) This warranty does not apply if the product has been damaged by accident, abuse, misuse, misapplication or neglect, or as a result of service, disassembly or modification, without NG’s express authorization.
- 6) NG assumes no liability beyond the replacement of defective parts or materials and/or the correction of such defective parts or materials.
- 7) NG neither assumes nor authorizes any other person to assume for it any liability in connection with the sale of its products other than that specifically stated herein.
- 8) THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY AND ALL OTHER WARRANTIES. EXCEPT AS EXPRESSLY SET FORTH HEREIN, NG MAKES NO REPRESENTATION OR WARRANTY, STATUTORY, EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCTS MANUFACTURED AND/OR SUPPLIED BY NG, WHETHER AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER MATTER. IN NO EVENT, INCLUDING IN THE CASE OF A CLAIM OF NEGLIGENCE, SHALL BTI BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

