



B200A
AIR-OVER-HYDRAULIC
POST & POLE PULLER
(BUCJAC) INSTRUCTIONS

REIMANN & GEORGER CORPORATION
CONSTRUCTION PRODUCTS
P/N 6122100

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1 SAFETY

1.1 INTRODUCTION

Your Reimann & Georger Corporation B200-A BucJac has been engineered to provide post pulling performance, long term economics and safety advantages that no other type can match. However, even a well-designed and well-built post puller can malfunction or become hazardous in the hands of an inexperienced and/or untrained user. Therefore, read this manual and related equipment manuals thoroughly before operating your BucJac to provide maximum safety for all operating personnel, and to get the maximum benefit from your equipment.

1.2 SAFETY DEFINITIONS

A safety message alerts you to potential hazards that could injure you or others or cause property damage. The safety messages or signal words for product safety signs are **DANGER**, **WARNING**, and **CAUTION**. Each safety message is preceded by a safety alert symbol and is defined as follows:

DANGER: Indicates an imminently hazardous situation, which, if not avoided, **will** cause death or serious injury. This safety message is limited to the most extreme situations.

WARNING: Indicates a potentially hazardous situation which, if not avoided, **could** result in death or serious injury.

CAUTION: Indicates a potentially hazardous situation which, if not avoided, **may** result in minor or moderate injury. It may also be used to alert against unsafe practices that may result in property-damage-only accidents.

1.3 BUCJAC B200-A SAFETY RULES

1. Only trained personnel shall operate the BucJac or do repairs. A trained person is one who has read and thoroughly understands this instruction manual and related equipment manuals and, through training and experience, has shown knowledge regarding the safe operational procedures.
2. Construction area is to be kept clear of unauthorized personnel at all times. Place barricades or secure the area in such a manner that no personnel would be injured by falling objects.
3. Safety equipment worn by operators must include, as a minimum, safety goggles, hard hats, safety shoes, and gloves.
4. Never operate the BucJac under the influence of drugs, alcohol, or medication.
5. Do not use the BucJac when you are tired or fatigued.
6. Do not use a BucJac that shows any signs of damage.
7. Never try using the BucJac in any application for which it was not designed.
8. Do not use any substitute for the lifting chain provided with the BucJac.
9. Use the remote control pendant to operate the BucJac and hooked-up post from a safe distance. Serious injury may occur if a loose post falls on personnel.
10. Keep clothing and all parts of the body away from moving parts of the BucJac when connected to an air compressor or when being used. No personnel should be standing within the 12-foot radius of the control pendant hoses during operation.
11. Do not attempt to adjust the BucJac during operation.
12. Use a wood or metal pole as needed to reposition the chain for taking another bite. Do NOT use your hand or foot to push the chain.

13. Always shut off the air compressor before disconnecting the hose or servicing the BucJac.
14. Always shut off the air compressor when not using the equipment.

3 OPERATION

3.1 BEFORE OPERATING THE BUCJAC

1. Only trained personnel shall operate this equipment. A trained person is one who has read and thoroughly understands this instruction manual and related equipment manuals and, through training and experience, has shown knowledge regarding the safe operational procedures.
2. Read and fully understand the operating manual for the air compressor being used.
3. Safety equipment worn by operators must include, as a minimum, safety goggles, hard hats, safety shoes, and gloves.
4. When carrying the BucJac to its operating position, observe the following precautions:
 - a. Insure the BucJac is disconnected from the air compressor to avoid accidental operation.
 - b. Bend your knees and lift with your legs.
5. Construction area is to be kept clear of unauthorized personnel at all times. Place barricades or secure the area in such a manner that no personnel would be injured by falling objects.

3.2 SETUP PROCEDURE

1. Because of the many different types of air fittings, the model B200-A is shipped with the 3/8" NPT air inlet plugged. This allows adapting the BucJac to the on-site style of air connection fittings once the plug is removed. See Figure 3-1. When installing the air inlet fitting, use a pipe thread sealant such as Teflon tape. The air supply **MUST** have a filter to prevent dirt contamination of the pump assembly.
2. Insure that the hydraulic fluid level is adequate in the pump reservoir.
3. To prevent fluid leakage during shipment, a shipping plug is installed in the reservoir fill hole. During operation, the reservoir must be vented. Before startup, pull the vented cap from its rubber strap, unscrew the shipping plug and install the vented cap. Tighten the vented cap securely from the bottom because the top rotates. Do not over-tighten. See Figure 3-2.

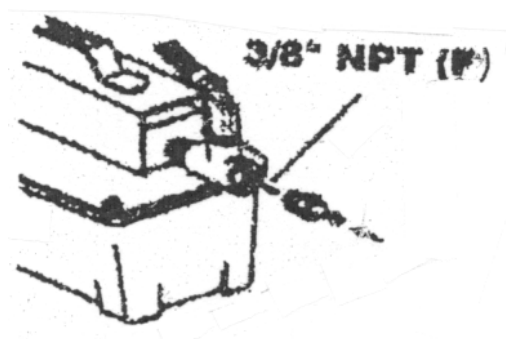


Figure 3-1.
3/8" NPT Air Inlet



WARNING:

NEVER REMOVE THE SHIPPING PLUG WHILE THE BUCJAC IS RUNNING OR REINSTALL THIS PLUG AT THE END OF A PROJECT WHILE THE HYDRAULIC FLUID IS STILL HOT.

LIQUID UNDER HIGH PRESSURE CAN PIERCE THE SKIN, CAUSING DEATH OR SERIOUS INJURY. HOT LIQUID CAN CAUSE SERIOUS PERSONAL BURNS. IF AN INJURY OCCURS, GET IMMEDIATE MEDICAL ATTENTION.

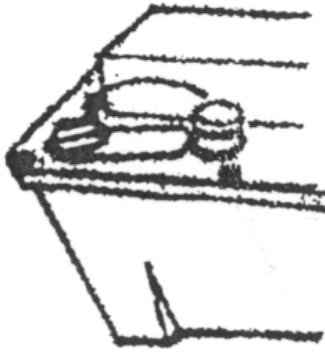


Figure 3-2.
Vented Cap Installation

4. Before connecting the air compressor hose, inspect it for breaks, cracks, worn spots, bulges, chemical attack, kinks or any other damage which may indicate leaks or risks of rupture. Replace a damaged air compressor hose immediately. Never try to repair it.
5. Perform a similar inspection on the remote control pendant hoses. If these hoses are damaged, contact your RGC dealer. Do not try to use the BucJac in this condition.

3.3 POST PULLING PROCEDURE

1. Place the BucJac against the post to be pulled, with the legs of the BucJac straddling each side of the post. For additional stability on soft or sloping terrain, use the optional leg extensions.
2. Wrap the chain around the post and “thread” the end through the cinch ring of the chain. Bring the chain up through the eye of the BucJac. Pull the chain to remove as much slack as possible. See Figure 3-3. Do NOT use any substitute for the lifting chain provided.
3. Secure the chain by sliding the Link-Lok into the chain around one of the links and between two adjoining links. See Figure 3-4. If the slack has been taken out of the chain properly, the operator should not have to remove and re-install the Link-Lok during the post pulling.
4. Insure the air supply hose is connected to the BucJac. Start the air compressor following the manufacturer’s instructions. An air input of 0.75 cfm @ 100 psi is recommended. Do NOT exceed this flow or pressure.
5. Take the remote control pendant to where you can control the BucJac from a safe distance.



WARNING:

PINCH-POINTS, MOVING EQUIPMENT, AND A FALLING LOOSE POST CAN CAUSE SERIOUS PERSONAL INJURY. THEREFORE, NOBODY SHOULD BE STANDING WITHIN THE 12-FOOT RADIUS OF THE CONTROL PENDANT HOSES DURING OPERATION.

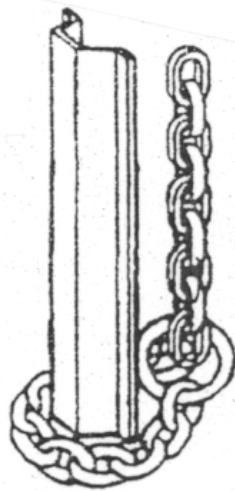


Figure 3-3.
Chain Installation on Post to Be Pulled

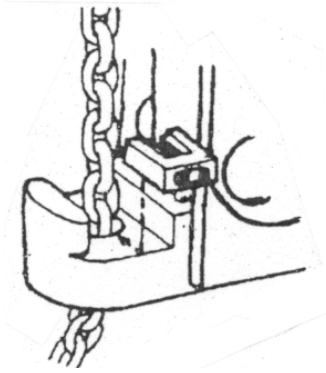


Figure 3-4.
Link-Lok Installation

6. Press the button indicating UP to take up whatever slack may be in the chain. Check that the entire setup has been done correctly, the unit is operating properly, and that all personnel are cleared from the area. Press the button indicating UP again and hold until the BucJac reaches the top of its stroke.
7. Press the button indicating DOWN to lower the BucJac. When the BucJac retracts all the way down, reposition the chain if needed to take another bite. Use a wood or metal pole to do this—do NOT use your hand or foot to push the chain. Keep taking bites until the post is loose or out of the ground completely.

3.4 SHUTDOWN AND STORAGE

1. Always shut down the air compressor when servicing the BucJac or when not using the equipment. Follow the shutdown procedure in the manufacturer's instruction manual. Then disconnect the compressor hose from the BucJac.
2. Secure the BucJac and air compressor to prevent unauthorized use.
3. Store the BucJac away from excessive heat or moisture. Store in a clean, dry area away from exposure to high humidity, liquids, or freezing temperatures.
4. At the end of a project and ONLY with the hydraulic fluid at ambient temperature, replace the vented cap on the reservoir with the shipping plug. This will prevent leakage during transfer to a new job site.

4 INSPECTION AND MAINTENANCE

4.1 GENERAL MAINTENANCE RULES

1. Proper maintenance of the BucJac and air compressor requires timely adhering to all the guidelines given in this chapter and in the applicable manufacturer's instruction manual. Proper maintenance is required to maintain the system in good condition and free of defects.
2. Review and follow all the safety rules given in Chapter 1 before attempting any maintenance.



CAUTION:

BEFORE STARTING ANY MAINTENANCE, DISCONNECT THE AIR COMPRESSOR TO PREVENT ACCIDENTAL STARTUP.



WARNING:

DURING ANY MAINTENANCE OR REPAIR PROCEDURES, DO NOT ATTEMPT ANY POST PULLING. THIS CAN CAUSE PERSONAL INJURY AND/OR EQUIPMENT DAMAGE.

4.2 REQUIRED MAINTENANCE

The BucJac requires little maintenance **except** for the following:

1. Check the air hoses before each use for damage. Replace a damaged air compressor hose immediately. If a remote control pendant hose is damaged, contact your RGC dealer. Never repair an air hose.
2. Check the function and performance of the BucJac periodically.
3. Before each use, insure that all broken, worn or defective parts are repaired or replaced. Check that all hardware on the BucJac is tight.
4. Check the hydraulic oil level periodically. The cylinder must be retracted with the oil at ambient temperature during this procedure. Add standard hydraulic oil if needed using the guidelines given in Chapter 2.
5. During long periods of storage or if in a climate of temperature extremes, check for condensation in the reservoir that may freeze prior to each use. Change the oil if it contains condensate.

5 TROUBLESHOOTING

The following chart is intended to assist with troubleshooting the B200A air-over-hydraulic BucJac. While not all inclusive, the chart outlines the most common causes of a problem and the recommended course of action.

The troubleshooting guide for the air compressor is in the instruction manual specifically for this unit.

SYMPTOM	CAUSE AND CORRECTIVE ACTION
BucJac does not start when button indicating UP is pressed on control pendant.	<p>Required air input of 0.75 cfm @ 100 psi is not met:</p> <ul style="list-style-type: none"> a. Air hose to hydraulic pump is leaking—replace hose. Do not try to repair it. b. Air compressor malfunction—refer to manufacturer’s instruction manual. <p>Leak in control pendant hoses—do not try to repair leak. Contact your RGC dealer.</p>
BucJac operates, but is not pulling up the post.	<p>Insufficient air input—refer to corrective action described above.</p> <p>Post to be pulled is hitting an obstruction—remove obstruction with the BucJac turned off.</p> <p>BucJac not positioned properly against the post—BucJac must be perpendicular to the ground for maximum lifting power.</p> <p>Required lifting power exceeds the maximum 11,000-lb. rated capacity of the BucJac—do NOT use the BucJac in this situation. Equipment damage and/or personal injury can occur.</p> <p>Hydraulic oil level low—add standard hydraulic oil as required with the reservoir oil at ambient temperature and the cylinder retracted.</p>

6 PARTS LIST

The following parts list applies to the B200-A BucJac only. Each item number on the following parts list can be matched with the item number shown on the Figure 6-1 assembly drawing which follows.

Item Number	Part Number	Quantity	Description
1	2412501	1	CHAIN SET ASSEMBLY
2	5842614	1	SHACKLE 3/8
3	5842615	1	CINCH RING
4	5842405	1	CHAIN, STEEL 3/8
5	5622058	1	FITTING
6	5622121	3	FITTING
7	6025011	1	HYDRAULIC CYLINDER
8	2414405	1	CYLINDER SLEEVE
9	2412431	1	LINKLOK™ CHAIN RETAINER
10	2442401	1	LANYARD
11	2455002	1	DRAW BAR ASSEMBLY
12	2455001	1	BASE ASSEMBLY
13	6025012	1	PUMP/CONTROL ASSEMBLY
14	5806202	2	HHCS 1/4-20 X 1/2
15	5842308	4	NUT HEX 1/2" GRADE 8
16	2412412	4	TIE RODS
17	5842608	2	SNAP RING 1/2"
18	2412438	1	HANDLE PIN
19	2412430	1	CROSS PIN
20	5842609	2	SNAP RING 1"
21	5921001	1	HOSE GUARD SHEATHING 12'
23	5622047	1	FITTING
24	6022206	1	TUBE HYDRAULIC RETURN
25	6025013	1	BREATHER/CAP
27	6022205	1	TUBE HYDRAULIC PRESSURE
28	5624123	1	FITTING
29	5806392	2	WASHER 1/4"

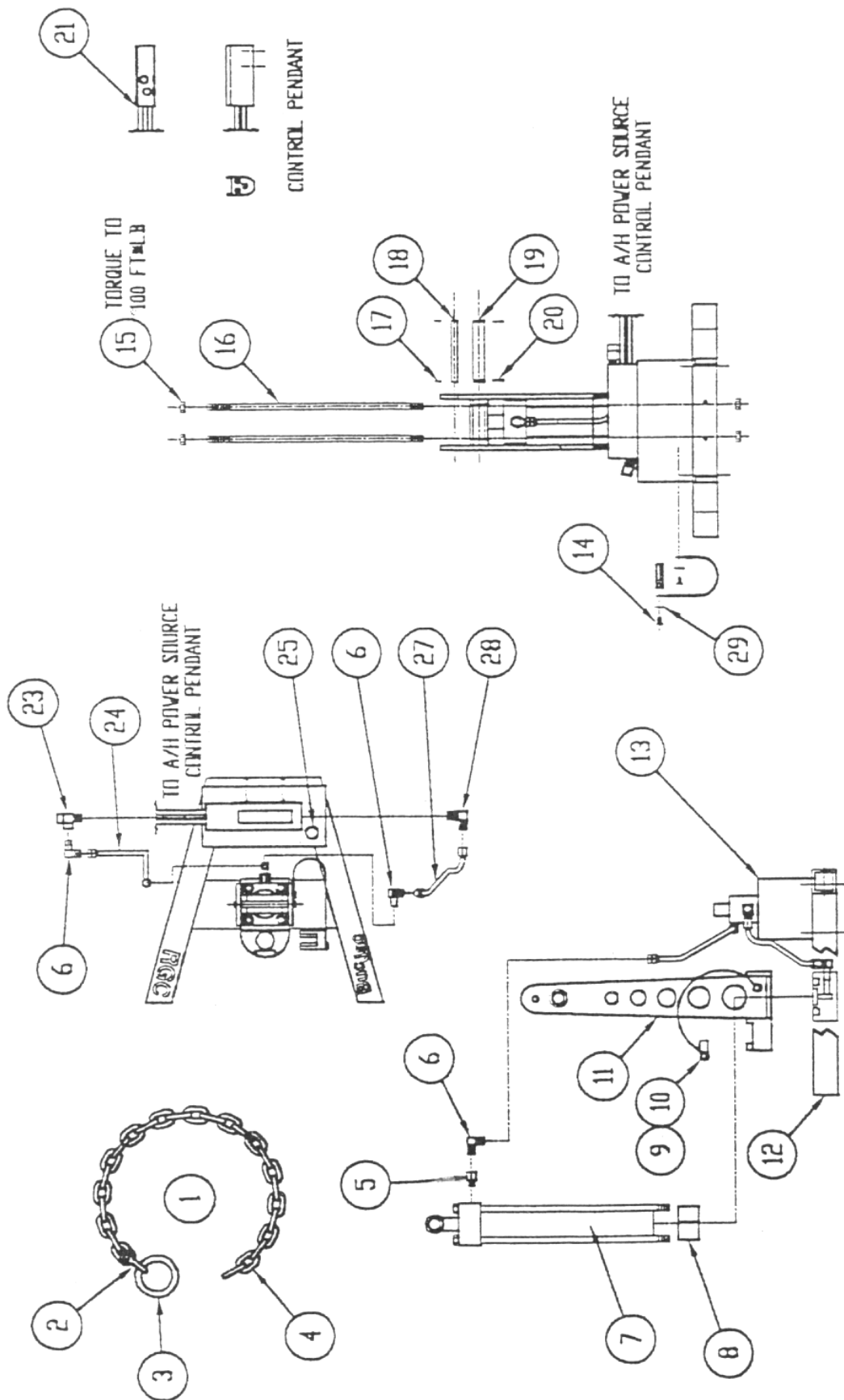


Figure 6-1.
B200A BucJac Assembly

LIMITED PRODUCT WARRANTY

**Reimann & Georger Corporation
Hoisting and Construction Products**

A. LIMITED WARRANTY

Reimann & Georger Corporation (the "Manufacturer") warrants to the original purchaser (the "Buyer") that all Reimann & Georger Hoisting and Construction products shall be free of defects in material and workmanship for a period of one (1) year from date of original purchase.

B. MANUFACTURER'S OBLIGATIONS

The Manufacturer's sole obligation under this Limited Warranty is the repair or, at the Manufacturer's discretion, the replacement of parts found to be defective. Parts and equipment must have authorization from the Manufacturer prior to return to the Manufacturer or repair by an authorized service person. Costs of transportation and other expenses connected with replacing or repairing parts are not covered under this Limited Warranty.

C. PARTS MANUFACTURED BY OTHERS

This Limited Warranty does not cover any parts manufactured by others. Such parts are subject to the warranty, if any, of their respective manufacturers, and are to be repaired only by a respective authorized service person for such parts. The Manufacturer shall have no obligation to undertake repairs of parts manufactured by others.

D. NO SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES

IN NO EVENT SHALL THE MANUFACTURER BE LIABLE TO THE BUYER OR ANY OTHER PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL LOSSES OR DAMAGES CONNECTED WITH THE USE OF THE PRODUCT UNDER THIS LIMITED WARRANTY. SUCH DAMAGES FOR WHICH THE MANUFACTURER SHALL NOT BE RESPONSIBLE INCLUDE, BUT ARE NOT LIMITED TO, LOST TIME AND CONVENIENCE, LOSS OF USE OF THE PRODUCT, THE COST OF A PRODUCT RENTAL, COSTS OF GASOLINE, TELEPHONE, TRAVEL, OR LODGING, THE LOSS OF PERSONAL OR COMMERCIAL PROPERTY, AND THE LOSS OF REVENUE.

E. NO LIABILITY IN EXCESS OF PURCHASE PRICE

IN NO EVENT SHALL THE MANUFACTURER'S OBLIGATIONS UNDER THIS LIMITED WARRANTY EXCEED THE PURCHASE PRICE OF THE PRODUCT.

F. NO EXTENSION OF STATUTE OF LIMITATIONS

ANY REPAIRS PERFORMED UNDER THIS WARRANTY SHALL NOT IN ANY WAY EXTEND THE STATUTES OF LIMITATIONS FOR CLAIMS UNDER THIS LIMITED WARRANTY.

G. WAIVER OF OTHER WARRANTIES

THE EXPRESS WARRANTIES SET FORTH IN THIS LIMITED WARRANTY ARE IN LIEU OF AND EXCLUDE ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

H. PROCEDURE FOR WARRANTY PERFORMANCE

If the product fails to perform to the Manufacturer's specifications, the Buyer must provide the Manufacturer with the applicable model and serial numbers, the date of purchase, and the nature of the problem.

I. ADDITIONAL EXCLUSIONS FROM THIS LIMITED WARRANTY. THIS LIMITED WARRANTY DOES NOT COVER ANY OF THE FOLLOWING:

1. Equipment which has been abused, damaged, used beyond rated capacity, or repaired by persons other than authorized service personnel.
2. Damage caused by acts of God which include, but are not limited to, hailstorms, windstorms, tornadoes, sandstorms, lightning, floods, and earthquakes.
3. Damage under conditions caused by fire or accident, by abuse or by negligence of the user or any other person other than the Manufacturer, by improper installation, by misuse, by incorrect operation, by "normal wear and tear", by improper adjustment or alteration, by alterations not completed by authorized service personnel, or by failure of product parts from such alterations.
4. Costs of repairing damage caused by poor or improper maintenance, costs of normally scheduled maintenance, or the cost of replacing any parts unless done as the result of an authorized repair covered by the one (1) year Limited Warranty.
5. Costs of modifying the product in any way once delivered to the Buyer, even if such modifications were added as a production change on other products made after the Buyer's product was built.

J. NO AUTHORITY TO ALTER THIS LIMITED WARRANTY

No agent, representative, or distributor of the Manufacturer has any authority to alter the terms of this Limited Warranty in any way.