OWNER'S MANUAL
MODEL NUMBER
700272-1 Subframe
700275 Half P.T.O.

BERCO
Subframe
for
CUB CADET 3000 SERIES
Tractors

* ASSEMBLY
* OPERATION
* REPAIR PARTS
* MAINTENANCE

CAUTION:
READ & FOLLOW ALL SAFETY RULES & INSTRUCTIONS
BEFORE OPERATING YOUR EQUIPMENT
LIMITED ONE YEAR ON BERCO TRACTOR ATTACHMENTS

For one year from date of purchase, Bercomac Limitée will repair or replace free of charge at Bercomac's option, any parts which are defective as a result of defective materials or faulty workmanship.

COMMERCIAL OR RENTAL USE:
Warranty on Berco attachments used for commercial or rental purposes is limited to 90 days.

This warranty does NOT cover:
* Wear items, such as shear pins and belts.
* Repairs due to customer abuse or neglect.
* Pre-delivery set-up.
* In home service.

Warranty service is available by returning the "Berco" attachment to the authorized dealer.

BERCOMAC Limitée
46 Fortin, Adstock, Québec, Canada, G0N 1S0
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INTRODUCTION

TO THE PURCHASER

This new attachment was carefully designed to give years of dependable service. This manual has been provided to assist in the safe operation and servicing of your attachment.

NOTE: All photographs and illustrations in the manual may not necessarily depict the actual models or attachment, but are intended for reference only and are based on the latest product information available at the time of publication.

Familiarize yourself fully with the safety recommendations and operating procedures before putting the machine to use. Carefully read, understand and follow these recommendations and insist that they be followed by those who will use this attachment.

THIS SAFETY ALERT SYMBOL IDENTIFIES AN IMPORTANT SAFETY MESSAGE IN THIS MANUAL THAT HELPS YOU AND OTHERS AVOID PERSONAL INJURY OR EVEN DEATH. DANGER, WARNING, AND CAUTION ARE SIGNAL WORDS USED TO IDENTIFY THE LEVEL OF HAZARD. HOWEVER, REGARDLESS OF THE HAZARD, BE EXTREMELY CAREFUL.

DANGER: Signals an extreme hazard that will cause serious injury or death if recommended precautions are not followed.

WARNING: Signals a hazard that may cause serious injury or death if the recommended precautions are not followed.

CAUTION: Signals a hazard that may cause minor or moderate injury if the recommended precautions are not followed.

Record your attachment serial number and purchase date in the section reserved below (there is no serial number on the subframe). Your dealer requires this information to give you prompt, efficient service when ordering replacement parts. Use only genuine parts when replacements are required.

If warranty repairs are required please present this registration booklet and original sales invoice to your selling dealer for warranty service.

This manual should be kept for future reference.

| SERIAL NUMBER : | ___________________________ |
| PURCHASE DATE : | ___________________________ |

In this manual, right and left sides are determined by sitting on the tractor seat facing forward.

In this manual, “attachment” means accessories that you install on the tractor, such as, snowblower, rotary broom, blade, rotary tiller, cab, subframe, etc...
SAFETY PRECAUTIONS

Careful operation is your best insurance against an accident. Read this section carefully before operating the tractor and attachment. All operators, no matter how experienced they may be, should read this and other manuals related to the tractor and attachments before operating. It is the owner's legal obligation to instruct all operators in safe operation.

TRAINING

This symbol, "Safety Alert Symbol", is used throughout this manual and on the attachment safety labels to warn of the possibility of personal injury. Please take special care in reading and understanding the safety precautions before operating the attachment or the tractor.

1. Read this Owner's Manual carefully. Be thoroughly familiar with the controls and proper use of the attachment. Know how to stop the unit and disengage the controls quickly.


3. No one should operate the unit while intoxicated or while taking medication that impairs the senses or reactions.

4. Keep the area of operation clear of all persons, particularly small children and pets.

PREPARATION

1. Disengage all clutches and shift into neutral before starting engine.

2. Handle fuel with care, it is highly flammable.
   a) Use approved fuel container.
   b) Never add fuel to a running engine or hot engine
   c) Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
   d) Replace fuel cap securely and wipe up spilled fuel.

3. Never attempt to make any adjustments while engine is running (except where specifically recommended by manufacturer).

4. Always wear safety glasses or eye shields during operation or while performing an adjustment or repairs to protect eyes from foreign objects that may be thrown from the machine.

OPERATION

1. Do not run engine indoors except when starting engine and transporting attachment, in or out of building. Do not operate or let motor run in a storage area without ventilation because gas contains carbon monoxide which is odourless, colourless and can cause death.

2. Do not carry passengers on attachment or tractor.

3. Take all possible precautions when leaving the machine unattended. Lower the attachment, shift into neutral, set the parking brake, stop the engine and remove the key. Wait for all moving parts to stop.

4. You must use manufacturer approved rear counterweights, minimum 100 lbs., for better traction and safety at all times when you have an attachment installed in front.

5. Never operate the attachment without good visibility or light.
SAFETY PRECAUTIONS

MAINTENANCE AND STORAGE

1. Check shear bolts, mounting bolts, etc..., at frequent intervals for proper tightness to be sure attachment is in safe working condition.

2. Never store the machine with fuel in the tank inside a building where ignition sources are present, such as hot water tanks, space heaters, clothes dryers and the like. Allow engine to cool before storing in any enclosure.

3. Maintain or replace safety and instructions labels, as necessary.

WHENEVER YOU SEE THIS SYMBOL

7

IT MEANS:

WARNING!

BECOME ALERT!

YOUR SAFETY IS INVOLVED!

7 WARNING

FOR YOUR SECURITY:
Read the attachment owner's manual for safety precautions and rules.
Follow the assembly and operation instructions.
STEP 1
SUBFRAME INSTALLATION:

IMPORTANT: TORQUE ALL BOLTS ACCORDING TO TORQUE SPECIFICATION TABLE (SEE TABLE OF CONTENTS) WHEN STATED: TIGHTEN FIRMLY. REFER TO PARTS BREAKDOWN SECTION FOR PARTS IDENTIFICATION.

NOTE: The mower deck must be removed before installing the subframe.

Remove the nuts from the pivot shoulder bolts (item 1) that hold the mower’s lift arms (item 2).

Install the sleeves (item 3), 9/16” flat washers (item 4) and 1/2” locknuts (item 5) supplied with the kit on the pivot bolts.

Tighten securely.

Install the subframe (item 1) on the tractor by hooking the rear portion (item 2) onto the sleeves just installed.

Lift the front portion of subframe (item 3) and hook up onto the front tractor hitch.

Secure in place with two 1/2 x 1 3/4” pins (item 4) and two 3 mm hair pins (item 5).

NOTE: The 1/2 x 1 3/4” pins should be in place at all times when subframe is installed. If not, the mounting pins will bend and the subframe may drop and could damage the tractor’s frame.

Lower the mower lift arms (item 1) and install the lift bracket (item 2) to the lever (item 3) with a 1/2 x 1 3/4” pin (item 4).

Secure with a 3 mm hair pin (item 5).

Attach the rear portion of the lift bracket (item 2) to the mower lift arms (item 1) with a 1/2 x 17” pin (item 6).

Secure with two 3 mm hair pins (item 7)

Tighten securely.
Install the handle support (item 1) to the subframe (item 2) with two 5/16 x 3/4" hex bolts (item 3) and flange nuts (item 4).

Tighten securely.

Insert the plastic grommet (item 5) into the handle support.

**NOTE:** The lever (item 6) has two sets of holes to be able to install the push tube. The rear hole is for the snowblower and rotary broom and the front hole is for the blade if more lift is needed.

**NOTE:** This subframe is equipped with a helper spring for the lift mechanism. The tension on the spring must be released to be able to install or to dismount the attachments. Tension can be released on the spring when using the blade for example to scrape harder.

Release the tension on the spring by lifting the hydraulic, remove the pin and move the arm (item 1) towards the front.

Secure with a pin and hair pin.

**CAUTION**

**TO PREVENT INJURIES:**
Always raise the attachment to reduce the tension on the spring before applying or releasing tension on the helper spring. Firmly hold the handle when you release the tension because the arm will kick back due to the tension on the spring.

**WARNING**

**TO PREVENT INJURIES AND FOR MORE TRACTION WHEN USING AN ATTACHMENT:**
- Rear counterweight of 100 lbs. minimum is required to counterbalance the attachment’s weight.
- Tractor manufacturer approved tire chains are required.
- Do not operate on a slope greater than 10°.
- When dismounting the attachment remove rear counterweights.
ASSEMBLY

STEP 2
SNOWBLOWER INSTALLATION:
Refer to snowblower owner’s manual, parts breakdown section for parts identification.

WARNING
FOR YOUR SECURITY:
Read the snowblower’s owner’s manual for safety precautions and rules.
Follow the assembly and operation instructions.

Insert the male section of the driveline into the snowblower’s driveline by aligning the stamped mark (item 1) with the large groove (item 2).

Only one position allows the shafts to be inserted into one another.

WARNING
TO PREVENT INJURIES:
Stop the motor.
Apply parking brakes.
Remove the ignition key.
Disconnect the wire from the spark plug(s) and keep away from spark plug(s) to prevent accidental starting.

If the driveline is not completely covered, be sure a guard extension is installed.
Do not operate without driveline completely covered by the shield.

Install the guard extension (item 1) on the reduction cover (item 2) with a 1/4 x 1” hex bolt (item 3) and two flange nuts (item 4) one on top and one underneath.

Secure with two 1/4 x 1/2” hex bolts (item 5) and flange nuts (item 6)

Tighten lightly.

DANGER
ROTATING DRIVELINE
Contact can cause death.
KEEP AWAY

Do not operate without:
All driveline, tractor & equipment shields in place.
Driveline securely attached at both ends.

Install the driveline
NOTE: This subframe is equipped with a helper spring for the lift mechanism. The tension on the spring must be released to be able to install or to dismount the attachments. Tension can be released on the spring when using the blade for example to scrape harder.

Release the tension on the spring by lifting the hydraulic, remove the pin (item 2) and move the arm (item 3) towards the front.

Secure with a pin (item 2) and hair pin.

---

**CAUTION**

TO PREVENT INJURIES:
Always raise the attachment to reduce the tension on the spring before applying or releasing tension on the helper spring. Firmly hold the handle when you release the tension because the arm will kick back due to the tension on the spring.

Attach the snowblower to the subframe as shown.

Make sure the snowblower is pushed in until locked into place by the springs (item 1).

Apply tension on the spring by lifting the attachment, remove the pin (item 2) and move the arm (item 3) towards the back.

Secure with a pin (item 2) and hair pin.

---

Connect the driveline to the tractor's P.T.O. spline shaft.

Make sure that the driveline yoke is securely attached to the tractor's P.T.O.

---

Move tension arm and attach snowblower
ASSEMBLY

Be sure that the reduction cover (item 1) is in place and secured with the rubber latch (item 2).

Lower the snowblower to the ground

Adjust the extension guard (item 3) by screwing the bolt (item 4) so that it is parallel with the driveline.

Tighten firmly.

Be sure that the extension guard doesn’t touch the driveline when the snowblower is raised.

Install the handgrip (item 1) on the handle (item 2).

Insert the handle through the handle support (item 3) as shown.

Insert the handle hook (item 4) on the rotation worm (item 5).

Insert the handle hook into the handle

Secure with a 2.5 mm hair pin (item 6).

VERIFY SKID SHOE ADJUSTMENT:

LEVEL PAVED SURFACE: Adjust skid shoes to allow 3/16" to 1/4" clearance (A) between cutting edge and surface.

UNEVEN OR GRAVEL SURFACE: Adjust skid shoes to allow 1/2" to 5/8" clearance (A) between cutting edge and surface.

VERIFY TIRE PRESSURE:

Attachments should raise 3" to 4" above ground (no more, no less) if not, check and adjust tractor tire pressure as follows:

Front tires: 15 - 20 psi
Back tires: 7 - 8 psi

Tire pressure must be even on both sides of tractor.
ASSEMBLY

ROTARY BROOM INSTALLATION:
Refer to rotary broom owner’s manual, parts breakdown section for parts identification.

WARNING

FOR YOUR SECURITY:
Read the rotary broom owner’s manual for safety precautions and rules.
Follow the assembly and operation instructions.

Insert the male section of the driveline into the rotary broom’s driveline by aligning the stamped mark (item 1) with the large groove (item 2).

Only one position allows the shafts to be inserted into one another.

WARNING

TO PREVENT INJURIES:
Stop the motor.
Apply parking brakes.
Remove the ignition key.
Disconnect the wire from the spark plug(s) and keep away from spark plug(s) to prevent accidental starting.

DANGER

If the driveline is not completely covered, be sure a guard extension is installed.
Do not operate without driveline completely covered by the shield.

Install the extension guard (item 4) on the broom’s guard with a 1/4 x 1" hex bolt (item 1) and two flange nuts (item 2) one on top and one underneath.

Secure with two 1/4 x 1/2" hex bolts (item 3) and flange nuts.

Tighten lightly.

DANGER

ROTATING DRIVELINE
Contact can cause death.
KEEP AWAY

Do not operate without:
-All driveline, tractor & equipment shields in place.
-Driveline securely attached at both ends.
Release the tension on the spring by lifting the hydraulic, remove the pin (item 2) and move the arm (item 3) towards the front.

Secure with a pin (item 2) and hair pin.

---

**CAUTION**

**TO PREVENT INJURIES:**
Always raise the attachment to reduce the tension on the spring before applying or releasing tension on the helper spring. Firmly hold the handle when you release the tension because the arm will kick back due to the tension on the spring.

Attach the rotary broom to the subframe as shown.

Make sure the rotary broom is pushed in until locked into place by the springs (item 1).

Apply tension on the spring by lifting the attachment, remove the pin (item 2) and move the arm (item 3) towards the back.

Secure with a pin (item 2) and hair pin.

Connect the driveline to the tractor’s P.T.O. spline shaft.

Make sure that the driveline yoke is securely attached to the tractor’s P.T.O.
Lower the rotary broom to the ground.

Adjust the extension guard (item 4) by screwing the bolt (item 1) so that it is parallel with the driveline.

Tighten firmly.

Be sure that the guard doesn’t touch the driveline when the rotary broom is raised.

Install the handgrip (item 2) on the handle (item 1).

Insert the handle (item 1) through the support (item 3) and onto the extension (item 4) as shown.

Secure with a 2.5 mm hair pin (item 5).

Verify Tire Pressure:

Attachments should raise 3” to 4” above ground (no more, no less) if not, check and adjust tractor tire pressure as follows:

- Front tires: 15 - 20 psi
- Back tires: 7 - 8 psi

Tire pressure must be even on both sides of tractor.
ASSEMBLY

UTILITY BLADE INSTALLATION:
Refer to blade owner’s manual, parts breakdown section for parts identification.

7 WARNING 7

FOR YOUR SECURITY:
Read the blade owner's manual for safety precautions and rules.
Follow the assembly and operation instructions.

Release the tension on the spring by lifting the hydraulic, remove the pin (item 2) and move the arm (item 3) towards the front.
Secure in place with a pin (item 2) and a hair spring.

7 CAUTION 7

TO PREVENT INJURIES:
Always raise the attachment to reduce the tension on the spring before applying or releasing tension on the helper spring. Firmly hold the handle when you release the tension because the arm will kick back due to the tension on the spring.

Attach the blade to the subframe as shown.
Make sure the blade is pushed in until locked into place by the springs (item 1).
Apply tension on the spring by lifting the attachment, remove the pin (item 2) and move the arm (item 3) towards the back.
Secure with a pin (item 2) and hair pin.

NOTE: Tension can be released on the spring when using the blade to scrape harder.

Move tension arm and attach blade
Install the handgrip (item 2) on the handle (item 1).

Insert the handle through the support (item 3) and onto the extension (item 4) as shown.

Secure with a 2.5 mm hair pin (item 5).

Insert the extension (item 4) into the control rod (item 6) and secure with a 2.5 mm hair pin (item 5).

**VERIFY TIRE PRESSURE:**

Attachments should raise 3" to 4" above ground (no more, no less) if not, check and adjust tractor tire pressure as follows:

- Front tires: 15 - 20 psi
- Back tires: 7 - 8 psi

Tire pressure must be even on both sides of tractor.
MAINTENANCE

a) Check mounting bolts at frequent intervals for proper tightness to be sure the equipment is in safe working condition.

b) Apply oil at all pivot points.

LUBRICATION:

Grease every eight hours of operation all the following parts:
- Item 1
- Item 2

Grease every sixteen hours of operation all the following parts:
- Item 1
- Item 2
- Item 3
- Item 4

See each attachment manual for their maintenance.

WARNING

TO PREVENT INJURIES:
Stop the motor.
Apply parking brakes.
Remove the ignition key.
Disconnect the wire from the spark plug(s) and keep away from spark plug(s) to prevent accidental starting.

DANGER

ROTATING DRIVELINE
Contact can cause death.
KEEP AWAY

Do not operate without:
- All driveline, tractor & equipment shields in place.
- Driveline securely attached at both ends.

END OF SEASON STORAGE

a) Clean and repaint all parts from which the paint has worn.

b) Apply oil at all pivot points.

c) Inspect and replace all defective parts before next season.
DISMOUNTING THE SUBFRAME:

See attachment owner’s manual (Snowblower, Rotary broom and Blade) for dismounting instructions.

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<tr>
<th>WARNING</th>
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<tr>
<td>TO PREVENT INJURIES:</td>
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<td>Stop the motor.</td>
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<td>Apply parking brakes.</td>
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<tr>
<td>Remove the ignition key.</td>
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<tr>
<td>Disconnect the wire from the spark plug(s) and keep away from spark plug(s) to prevent accidental starting.</td>
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</table>

a) Remove the rear counterweight if installed.
b) Lower the hydraulic lift.
c) Detach the lift bracket by removing the hair pin and pull out the pin.
d) Remove the two pins and hair pins that hold the front portion of the subframe.
e) Place a piece of wood under the back of the subframe to prevent the subframe from dropping to the ground.
f) Unlock the tractor hitch and pull out the subframe.
### TORQUE SPECIFICATION TABLE

**GENERAL TORQUE SPECIFICATION TABLE**

*NOTE: These values apply to fasteners as received from supplier, dry or when lubricated with normal oil. They do not apply if special graphited or moly disulphide greases or other extreme pressure lubricants are used. This applies to both UNF and UNC threads.*

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<tr>
<th>BOLT SIZE INDEX</th>
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<th>5</th>
<th>8 *</th>
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<td><strong>POUND FEET</strong></td>
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*Thick nuts must be used with grade 8 bolts*

### METRIC BOLT TORQUE SPECIFICATIONS

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O/L = Obtain locally/obtenir localement
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O/L = Obtain locally/obtenir localement
ATTACHMENTS

48" UTILITY BLADE #700266
Mounts on the same subframe as the snowblower & rotary broom.

54" UTILITY BLADE #700315
HYDRAULIC ANGLING KIT #700318
Mounts on the same subframe as the snowblower & rotary broom.

ROTARY BROOM
#700286 with nylon brush
/#700316 with polypropylene brush.
Fits on same subframe as snowblower & utility blade.
Requires an adaptor.

DEBRIS COLLECTOR #700235
Quickly & easily fitted on front of rotary brooms #700286 and #700316.
Collects debris in container with easy manual dumping. Reduces dust.

TRACTOR SCREEN CAB
#700313
Universal type fits on a wide variety of lawn and garden tractors.

COUNTERWEIGHT
#700240 Universal rear weights
#700246 Rear weights Electrolux
Required for safety and traction. Counterbalances weight of attachment.

TIRE CHAINS
Two link spacing. Required for traction and safety.
Pkg. of 2

SNOWBLOWER
#700210 40"
#700211 44"
#700255 40"
#700300 48"
Fits on same subframe as rotary broom and utility blade.

TRACTOR WINTER CAB
#700271
Universal type fits on a wide variety of lawn and garden tractors.