



MacDon
Operator's Manual
2000-B
Pickup Reel

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MAC-O-2000B

Operator's Manual

INTRODUCTION

Your new Model 2000-B cam-action Pick-Up Reel is ideal for downed-crop conditions and may be mounted on most windrowers and combines.

This manual is provided to assist you in the Assembly, Operation and Maintenance of your MacDon Pick-Up Reel. As well, a Service Parts listing is included. Use the manual as your first source of information about the reel.

CAREFULLY READ THE MANUAL BEFORE ATTEMPTING TO ASSEMBLE, MOUNT OR USE THE REEL.

Repair or replacement parts may be ordered from your nearest authorized dealer. When ordering, be sure to include the following information:

1. Serial number of reel. The serial number is located on the L/H cam assembly.
2. Part number, description and quantity of each part.
3. Make and header width of windrower or combine.

Keep this manual handy for reference and to pass on to new operators or owners. Call your Dealer if you need assistance, information or additional copies of this manual.

NOTE: A mounting parts list was shipped with the mounting package for your particular windrower or combine. Keep the list with this manual for future reference.

NOTE: For assembly and parts description purposes, right and left hand are determined from the Operator's position, facing forward (in the direction of travel). These may be abbreviated using R/H and L/H. The cam assemblies at either end of the reel are identified as right or left hand with decals.

WARRANTY CLAIMS: When claiming warranty, be sure to include all of the following information:

1. Serial number of reel.
2. Date purchased.
3. Date of failure.
4. Description of failure.
5. Part number and quantity of failed parts.

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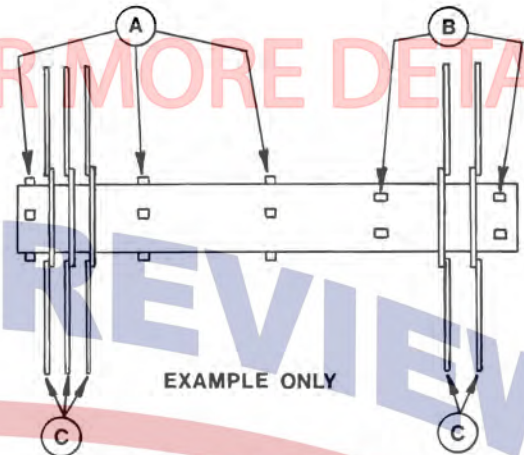
ASSEMBLY

3. SLIDE REEL ARM ASSEMBLIES ONTO CENTER TUBE.

NOTE: The lug pattern is different at each end of the tube. The pattern at each end continues towards the center of the tube. The number of positions with the same lug pattern determines the number of arm assemblies to be installed from that end.

EXAMPLE: Lug pattern (A) is repeated at three positions; slide three reel arm assemblies (C) on that end.

Lug pattern (B) is repeated at two positions; slide two assemblies (C) on that end.



IDENTIFY LUG PATTERN & SLIDE ON ARM ASSEMBLIES

To install arm assemblies:

- With disc of assembly facing in, match the three notches (D) in the arm disc with the three end lugs on the center tube and slide assembly over these lugs.
- Rotate assembly until any notch in disc aligns with the fourth (offset) lug and slide on.
- Repeat until all assemblies are on reel tube, past the first set of lugs at each end.



LINE UP 3 LUGS, SLIDE ON, ROTATE TO LINE UP OFFSET LUG

- Fasten one arm assembly at each end, using 3/8 NC x 1-1/2 carriage bolts and flange nuts as follows:

Place the disc between the one offset lug (E) and the other three lugs (F) and rotate to align holes in disc with lugs on tube. Install hardware finger tight only, with bolt heads against lugs.

NOTE: It is sufficient to fasten only the outside arm assemblies at this stage, leaving the rest of the arm assemblies close to the end of the reel. Final positioning is easier after the reel is mounted.



ATTACH ONE ARM ASSEMBLY EACH END

ASSEMBLY

4. INSTALL END SHAFTS from mounting package using four 3/8 NC flange bolts.

NOTE: End shaft can be identified as right or left by the decal on the support to which it is assembled. Be sure the drive end shaft is installed at the proper end of the reel for your machine.

IMPORTANT: Tighten the four bolts evenly to pull shaft straight into tube. Plate (A) must contact disc (B). When contact is made, torque bolts to 35 ft.lbs. (47 N·m).

Slide one 3 inch O.D. washer (C) from mounting package onto each end shaft.



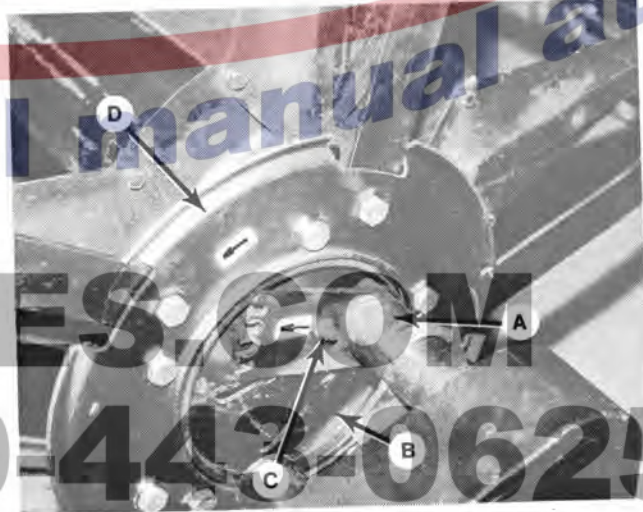
INSTALL END SHAFTS & WASHER

5. ASSEMBLE AND INSTALL CAMS.

- a. Identify left and right reel supports (A) (from mounting package) by the decal on each part.
- b. Attach each reel support (A) to a cam track (B) with one 3/8 NC x 3/4 carriage bolt and flange nut at (C). (Both cam tracks are the same.)

IMPORTANT: Do not install bolt in adjustment slots until reel is mounted. Damage to reel may result if ends are not evenly adjusted.

- c. Slide reel support/cam track assemblies onto end shafts, matching rotation decals on center tube to decals on reel supports.
- d. Identify right and left cam arm assemblies (D) by the decal on each cam ring. Extend the cam arms collapsed for shipping and tighten locknuts to 170 ft.lbs. (230 N·m).
- e. Slide right and left cam arm assemblies (D) over cam tracks at respective ends of reel, ensuring that rotation decals on center tube, reel supports and cam rings all match.



ASSEMBLE AND INSTALL CAMS
(LEFT HAND SHOWN)

ASSEMBLY

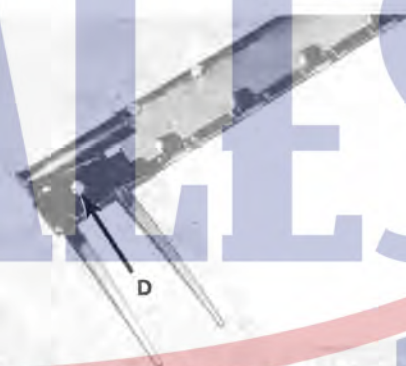
8. ATTACH CRANKS TO BAT ASSEMBLIES:

- Left and right cranks are bundled separately. Identify left and right cranks by the decal on one crank per bundle.
- Attach left (E) and right cranks to bat assemblies (F). Be sure orientation of bats is as shown.
Fasten with 5/16 NC x 1 1/2 inch flat head capscrews and special tapered nuts (H). (Taper against bat).
Tighten hardware only until bat is clamped to tube. Do not collapse bat and tube by over-tightening.



ATTACH CRANKS TO BATS -
LEFT HAND SHOWN

- 36' Header Only: At inboard end of L/H and R/H reels, install fingers in end bats. (See Step 11 for procedure). Install 5/16 NC x 3/4 carriage bolt and flange nut at (D), tightening only until fingers are clamped.
Attach end bats to bat assemblies similar to cranks, (Step 8 b, above).
NOTE: Clamping of end bat fingers prior to installation of end bat is necessary to provide proper fit-up between end bat and formed bat.



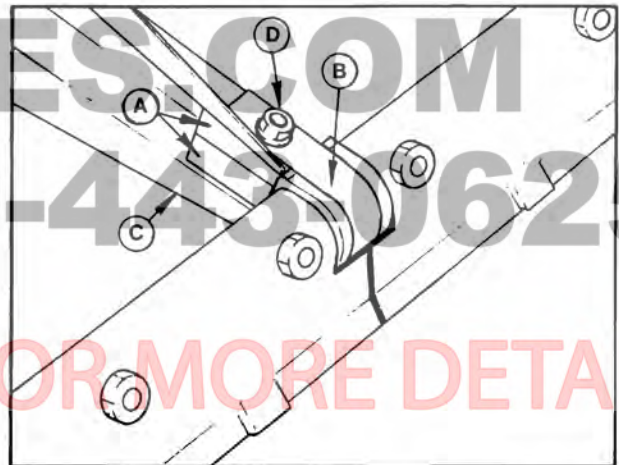
CLAMP FINGERS IN END BATS BEFORE
INSTALLATION (36' HEADER ONLY)

9. ATTACH BATS TO REEL ARMS:

- Assemble bearing halves (A) and steel strap (B) onto reel bats.

NOTE: Apply a thin layer of grease on all plastic bearings to prolong bearing life.

- Check that left and right hand decals on bat assemblies and cam assemblies match. Attach bats to reel arms (C) as shown with 5/16 x 2 1/4 inch hex head capscrews and flange locknuts (D). FINGER TIGHTEN ONLY.
- Straighten bats, then tighten hardware at arm discs only. See Step 14 for proper torques.



ATTACH BATS TO REEL ARMS



WARNING: Do not crawl under, or climb over or through the reel assembly.

ASSEMBLY

10. ATTACH CAM ARMS (F) to cranks on bat assemblies using $\frac{5}{8}$ x $1\frac{3}{8}$ hex head shoulder bolts and lock nuts. Finger tighten only.

NOTE: There are two positions on the crank for connecting cam arms. See "Recommended Settings" chart on page 14 and choose the position best suited to your conditions. (Position "Y" is shown here.)

IMPORTANT: Once a cam arm position is chosen, ensure all arms are in the same position at both ends of the reel.



ATTACH CAM ARMS

11. INSTALL FINGERS in bats using tool (A) provided, ensuring button snaps into hole (B) in bat.



INSTALL FINGERS

For steel fingers, pre-assemble finger (F) and clip (G) and install as above.



STEEL FINGERS