

MCINTOSH TIP TRAILER

4.5 to 20
Tonne Models
User Manual

McIntosh Brothers Engineers Ltd
Phone 06 356 7056
PO Box 4240
PALMERSTON NORTH 4442
NEW ZEALAND
www.mcintosh.net.nz

WARRANTY CONFIRMATION AND CUSTOMER DECLARATION

Your new trailer is guaranteed for a period of 12 months from date of entering service, provided that such equipment has not been subject to improper usage and or overloading or any other conditions contrary to the manufacture's specifications or recommendations.

Your dealer representative has instructed me on the correct use of the trailer and the adjustment and maintenance requirements, and the need to check wheel nuts and other bolts as per the operation manual.

Your dealer must fill out this form below and send back to **McIntosh Brothers** within 14 Days.

Purchaser and/or Agent Declaration: I have been instructed in, and understand the hazards, and the safe operating instructions applicable to this machine. I understand and accept responsibility to train any operator to follow the safety measures.

Model _____

Serial # _____

Owner's Information

Signed: _____

Owner: _____

Date: _____

Dealer's Information

Signed: _____

Company: _____

Salesperson: _____

Date: _____

Please return this completed form to:

McIntosh Brothers Engineers Ltd
PO Box 4240
PALMERSTON NORTH 4442
production@mcintosh.net.nz



MCINTOSH

Please note: It is recommended that both the owner and the dealer retain a copy of the completed warranty form for their records.

McIntosh Machine Warranty Conditions

Dear Customer,

Thank you for purchasing your new McIntosh machine. Please ensure that you read the operators manual and warranty conditions thoroughly and have your dealer explain the operation, maintenance and safety features of the machine.

GENERAL CONDITIONS

Warranty Period

12 months from the date of delivery and installation.

The warranty is limited to the repair of defective parts and/or components, the supply of replacement parts, and the direct labour cost for the fitting of the replacement or repair parts (and/or components), in accordance with the manufacturer's repair time schedules, or at McIntosh's discretion.

Owner's Responsibilities

The owner must:

- Read the machine's operators manual carefully to learn how to operate and service the machine safely and correctly.
- Operate the machine strictly in accordance with the instructions in the operator's manual, taking into account the machine's application and limitations at all times.
- Maintain and ensure their machine at their own expense from the first day of installation in accordance with operator's manual, including all scheduled service and maintenance checks.
- Notify the authorised dealer of any fault in the machine as soon as it becomes apparent. The owner must then make the machine available on request for repairs to be carried out. Failure to do so may make the owner liable for any further or consequential damage and associated costs.
- For warranty repairs you must either clean down the machine ready for repair or pay for the cost of cleaning.



Tip Trailer

GENERAL OPERATION AND MAINTENANCE INSTRUCTIONS

MANUFACTURED BY:	DISTRIBUTED BY:
McIntosh Brothers Engineers Ltd Palmerston North New Zealand	

SAFETY must have PRIORITY

- Maintain your machine in good working condition.
- Keep other people clear of machine when in use
- Disconnect hydraulic supply lines when any maintenance, greasing or adjustments are undertaken.
- Always shut down the tractor and apply the handbrake before leaving the tractor seat.
- Don't allow people to travel on the trailer.
- Be aware of ground contours especially when tipping.
- Be careful of machine overturning when deck is raised.
- Maintain the hydraulic hoses in good condition and replace if any sign of damage.
- Ensure that the tractor is capable of safely pulling and stopping the trailer and load on the terrain that the trailer is to be operated on.

**HUMAN ERROR IS THE MAJOR FACTOR IN
ACCIDENTS**

MAINTENANCE

PLEASE CHECK NUTS, BOLTS, GRUB SCREWS AND FITTINGS AFTER A FEW HOURS OF OPERATION

Maintenance is a very important part of your machines performance and safety. Please ensure your machine is correctly maintained.

GREASING

Grease machine every 10 hours of operation.

The amount of grease nipples on the machine are marked on the serial number identification plate. This is located on the left side panel of the machine.

HOSES

Maintain hydraulic hoses and ram in good condition. Replace damaged components as soon as they become evident, regular checks of these components is recommended.

OTHER CHECKS

Check and regularly tighten all bolts and nuts especially the wheel nuts and hydraulic ram securing bolts.

Check pivot pins and bushes regularly for wear and any signs of damage. Replace as required.

NEVER PERFORM GREASING AND MAINTENANCE ON THE MACHINE
WHILE THE DECK IS RAISED.

OPERATOR COMPETENCY

Only competent and trained operators are to use this machine. Please make sure all personal are instructed in and correctly use the Tipping Trailer.

The operator must have read and understand this operator's manual and operate the machine in a competent manner.

Serious injury or death may occur if this machine is operated in any other way.

**Don't consume alcohol or medicines that cause drowsiness when
operating this machine**

Swinging Tail Gate

If you have a swinging tail gate fitted open the tail gate when tipping and attach chain.

Once unloaded, swing the tail gate back to the closed position. **Do not** travel with the tail gate open or you may damage the swinging hinge on the tail gate.

OPERATION

Connect the Tipping Trailer to the tractor with a suitable drawbar pin with a retaining clip. The tractor's drawbar must be fitted with a double tongue.

Ensure that the tractor size is capable of pulling and braking (stopping) the trailer with the intended load during use and in the terrain proposed for it to be used in. Set the drawbar of the tractor to its minimum length setting to ensure the pivot point is as close as possible to the tractor.

Connect the hydraulic hose to the tractor remotes. If the tractor is fitted with a single acting remotes or setting screw, use this to prevent excessive pressurizing of hydraulic hoses.

Load the trailer evenly and do not exceed the trailers capacity or the tractors maximum downward drawbar load. Ensure the deck is totally down on the chassis before loading and transporting.

NEVER ALLOW OTHER PEOPLE TO TRAVEL ON THE TRAILER DURING USE

When travelling, drive safely and cautiously. Do not go on steep or very uneven terrain. Travel at a speed which is safe to do so and be aware of changing conditions.

When unloading, make sure that the rear wheels of the trailer are on a solid and level surface. Set the tailgate to release or if fitted make sure that the auto tailgate release is working correctly. If spreader chains are required, set these **before** lifting the deck. Only use spreader chains with fine sand or gravel mixes. Large material can clog the trailers tailgate and make the trailer unload unevenly and may cause the trailer to overturn.

When raising the deck, be stationary where possible. Be cautious of overhead and high-tension power lines. ("**LOOK UP AND LIVE**"). Ensure all people are clear from behind and side of the trailer. When travelling and spreading the load ensure that the ground is level and solid to prevent overturning.

When empty, fully lower deck as soon as possible before travelling off.

Maintain you machine in good working condition. Grease machine at regular intervals, keep hydraulic hoses in good condition and replace immediately if damaged. Check for loose bolts and wheel nuts on a regular basis.

Be aware of sticky material (i.e. clay and drainage material) remaining in the top corners of the deck. This can cause the trailer to overturn.

LOOK AFTER THE MACHINE AND IT WILL LOOK AFTER YOU

HAZARDS

HAZARD IDENTIFIED	RISK SOURCE	CONTROL MEASURE
Operator injury risk	Inexperience	Operators manual is supplied covering all aspects of trailer operation.
Risk of being crushed	Trailer overturning	Use only on solid and even surfaces. Lower deck as soon as it is empty. Do not leave tractor seat when lifting deck. Keep off steep or very uneven terrain
Risk of electrocution	Over head power	Do not raise deck around power lines. Warning decals fitted.
Risk of crushing	Raising / lowering deck	Only operate from tractor seat. Keep other people clear of trailer when operating. Warning decals fitted.
Risk of crushing	Raised deck	Never maintain trailer with deck raised.

HYDRAULIC FLUID SAFETY

WARNING Escaping hydraulic fluid under pressure can have sufficient force to penetrate skin, causing serious personal damage. Before disconnecting lines, be sure to relieve all pressure. Before applying pressure to the system, be sure all connections are tight and that lines, pipes and hoses are not damaged. Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks.

If injury by escaping fluid occurs, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.

TYRE PRESSURES

	PSI
11.5/80-15.3	69
12.5/80-15.3	68
400/60-15.5	50
15/70 x 18	62
500/60-22.5	44
550/60-22.5	40
600 x 40 x 22.5	41
600/50-22.5	39
385/65 R22.5	68

Wheel Nut Recommended Torque Setting

M18 – 200 ft/lbs or 270Nm

M20 – 280 ft/lbs or 380Nm

M22 – 330 ft/lbs or 450Nm

CHECK ALL WHEEL NUTS ARE SUFFICIENTLY TIGHT