

Sabre Utility Cart



OPERATOR'S MANUAL

John Deere
Worldwide Commercial And
Consumer Products Division
OMM135017 J7

North American Version
Litho in U.S.A.

English

INTRODUCTION

THANK YOU for purchasing a Sabre product.

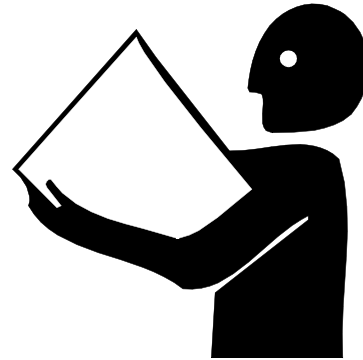
Read this manual and your vehicle manual thoroughly. Failure to do so could result in personal injury or equipment damage.

This manual should be considered a permanent part of your machine and should remain with the machine if you sell it.

Measurements in this manual are metric units and their U.S. customary equivalents. RIGHT-HAND and LEFT-HAND sides are determined by facing in the direction the machine will travel when going forward. When you see a broken line arrow (----->) it indicates the part it is pointing to is hidden.

Product warranty is provided as part of Sabre's support program for customers who operate and maintain their equipment as described in this manual. The product warranty is explained on the warranty certificate you received from your dealer.

Record the date of purchase below, you need to give it to your Authorized Sabre Service Center if you need to order parts.



Sabre Service Center Name and Phone:

Date of Purchase:



M85756

TABLE OF CONTENTS

SAFETY SIGNS	1
INSTALLING	2
REMOVING	3
OPERATING MACHINE	4
SERVICE	9
ASSEMBLY	10
SPECIFICATIONS	16
INDEX	17
JOHN DEERE SERVICE LITERATURE	19

All information, illustrations and specifications in this manual
are based on the latest information at the time of publication.
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John Deere Worldwide Commercial and Consumer Equipment Division
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NOTES

SAFETY SIGNS

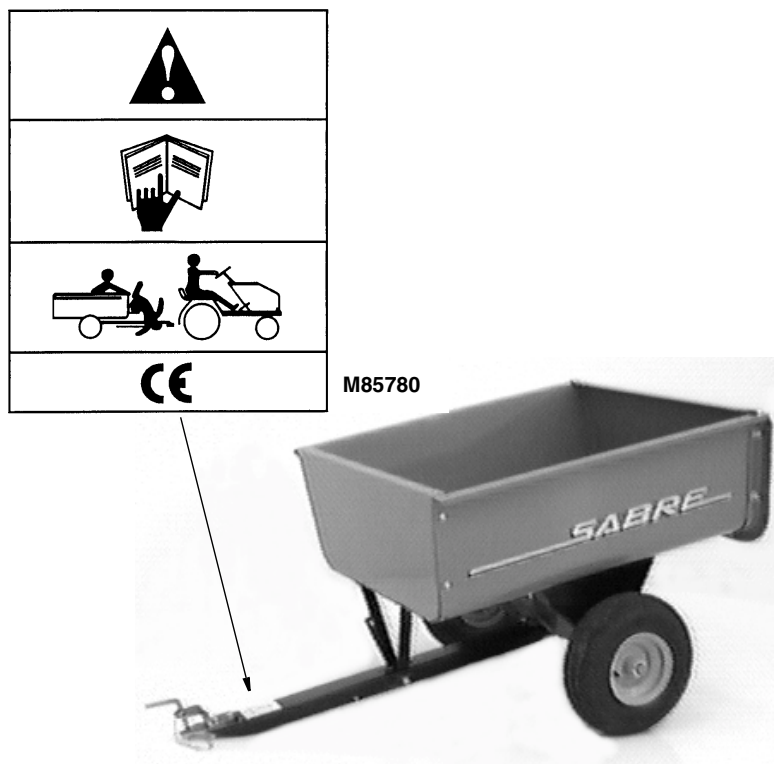
Safety-Alert Symbol

Read and recognize safety information. Be alert to the potential for personal injury when you see this safety-alert symbol.

On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with this safety-alert symbol. DANGER identifies the most serious hazards. In this manual, the word CAUTION and this symbol call attention to safety messages.



Machine Safety Label



INSTALLING

Park Vehicle Safely

- Stop vehicle on a level surface, not on a slope.
- Engage the park brake.
- STOP the engine.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

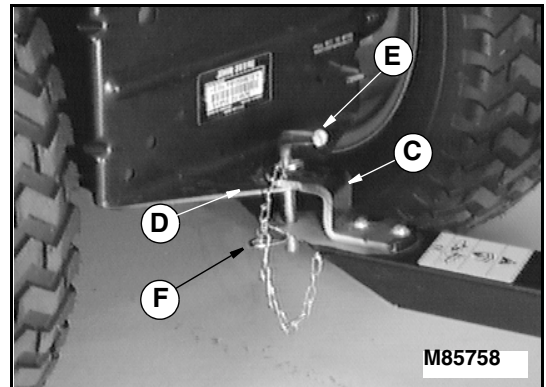
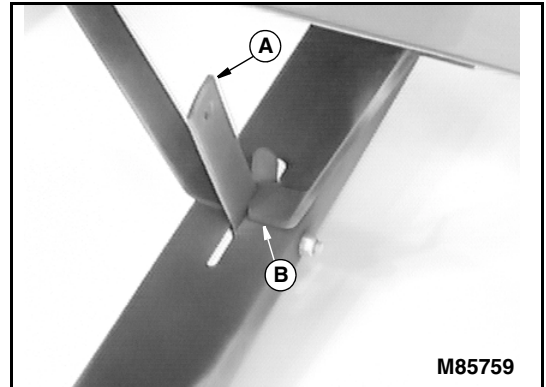
Attaching Cart



CAUTION: Before you attach cart to vehicle make sure cart box is latched:

Make sure dump lever is pushed back into notch on latch bracket.

1. Make sure dump lever (A) is pushed back fully into notch of latch bracket (B).
2. Put clevis (C) of cart drawbar on vehicle hitch (D) and fasten with hitch pin (E) and spring locking pin (F), first going through one chain link.



REMOVING

Park Vehicle Safely

- Stop vehicle on a level surface, not on a slope.
- Engage the park brake.
- STOP the engine.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

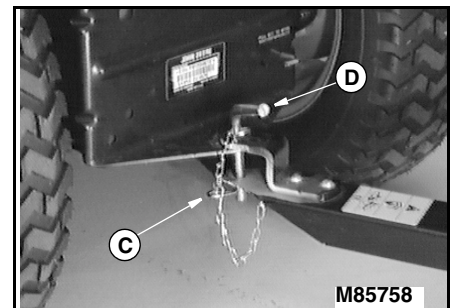
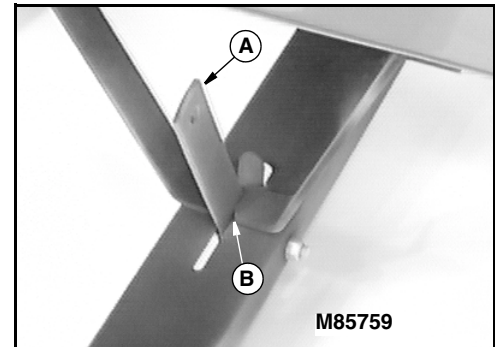
Removing Cart



CAUTION: Before you remove cart from vehicle:

- Empty cart.
- Block cart wheels.
- Make sure dump lever is pushed back into notch on latch bracket.
- Keep feet from under drawbar.
- Keep feet from under cart.

1. Empty cart. (See Loading and Unloading Cart in the Operating Section.)
2. Block cart wheels.
3. Make sure dump lever (A) is pushed back fully into notch of latch bracket (B).
4. Remove spring locking pin (C) and pull hitch pin (D) out of clevis.
5. Remove cart drawbar from vehicle hitch, install hitch pin back into clevis and drawbar, and fasten chain and spring locking pin in hitch pin for safe keeping until next use.



OPERATING MACHINE

Operate Machine Safely

- Check vehicle brake action before you operate. Adjust or service brakes as necessary.
- Inspect machine before you operate. Be sure hardware is tight. Repair or replace damaged, badly worn, or missing parts. Make any necessary adjustments before you operate.
- Keep people and pets out of the work area. Stop machine if anyone enters the area.
- Make repairs before you operate. Keep machine properly maintained and in good working order.
- DO NOT leave machine unattended when it is running.
- Only operate during daylight or with good artificial light.
- DO NOT let anyone, especially children, ride on machine or vehicle.
- DO NOT let children or an untrained person operate machine.
- Do not wear radio or music headphones while operating the machine. Safe operation requires your full attention.

Operate Cart Safely

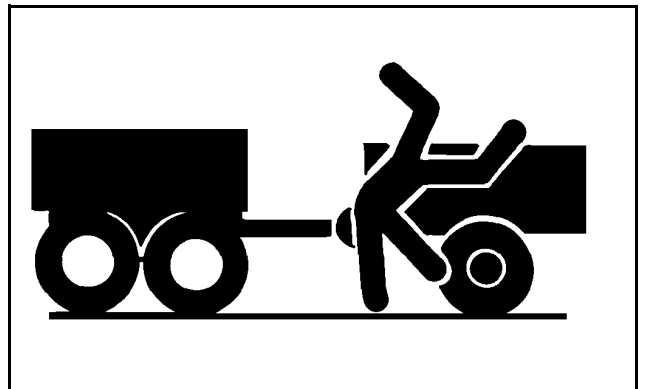
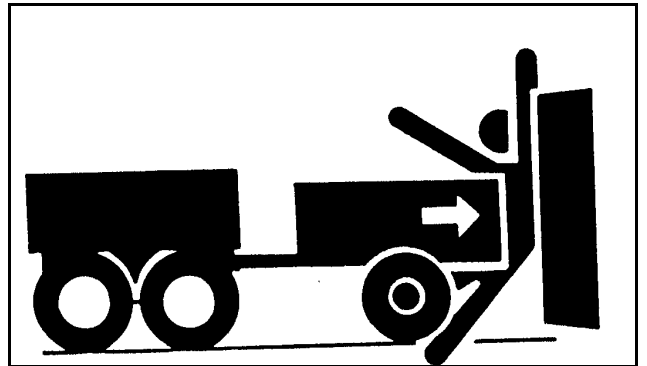
- Keep children away when you operate the cart.
- Before you back the vehicle and cart, look carefully behind the cart for children.
- Keep children out of the cart.
- Riders in the cart are subject to injury, such as being struck by objects and being thrown off the cart during sudden starts, stops, and turns.
- Riders obstruct the operator's view, resulting in the cart being used in an unsafe manner.

Before you tow or load the cart:

- Connect cart to vehicle hitch and install spring locking pin in hitch pin.
- Dump latch must be engaged.

Avoid tipping and skidding:

Weight of vehicle and operator must be more than weight of cart and load.



OPERATING MACHINE

A safe load on dry, level ground may cause the vehicle to lose traction and skid on slippery or sloped ground. Reduce speed and size of load before you operate on slopes or slippery ground.

Do not use cart near the edge of a ditch or bank.

- Avoid holes, rocks, and roots.
- Slow down before you turn.

Do not make sharp turns that cause vehicle tires to rub cart drawbar or cart box.

Do not tow cart with box raised.

Operate safely:

Do not operate vehicle at high speeds when you tow the cart.

- Travel slowly over rough ground.

Before you dump a load:

- Stop the engine.
- Lock the park brake.
- Remove the key.

Before you disconnect cart from vehicle hitch:

- Stop the cart on level ground.
- Stop the engine.
- Lock the park brake.
- Remove the key.
- Block the cart wheels.

Before you service, clean, or inspect the cart:

- Stop engine.
- Lock park brake.
- Remove key.

Keep all parts in good condition and fastened in place.

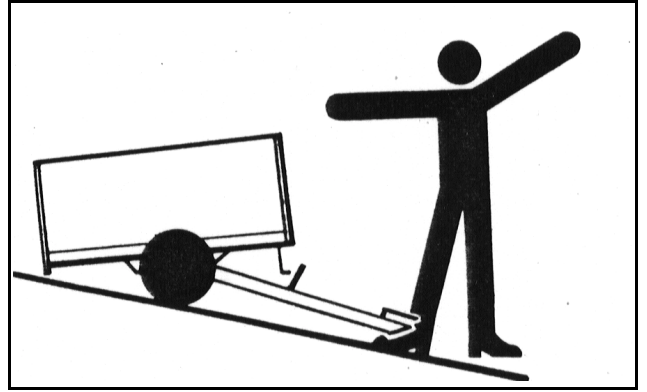
Store cart on level ground with wheels blocked and drawbar on the ground.

OPERATING MACHINE

Keep Feet From Under Drawbar

Before you disconnect cart from tractor hitch:

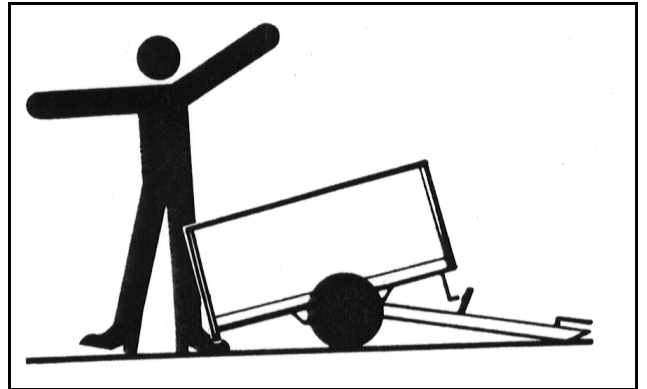
- Unload cart.
- STOP cart on level ground.
- STOP engine.
- LOCK park brake.
- Block cart wheels.
- Make sure feet are not under drawbar.



Keep Feet From Under Cart

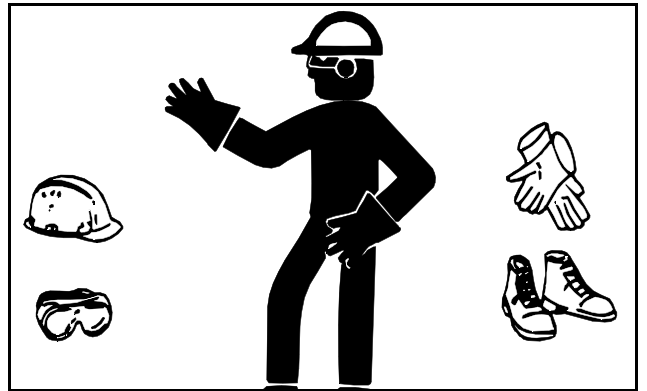
Before you service, clean or inspect cart:

- STOP engine.
- LOCK park brake.
- Make sure dump lever is pushed back into notch on latch bracket.
- Make sure feet are not under cart.



Wear Appropriate Clothing

- Wear close fitting clothing and safety equipment appropriate for the job.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.



OPERATING MACHINE

Loading and Unloading Cart

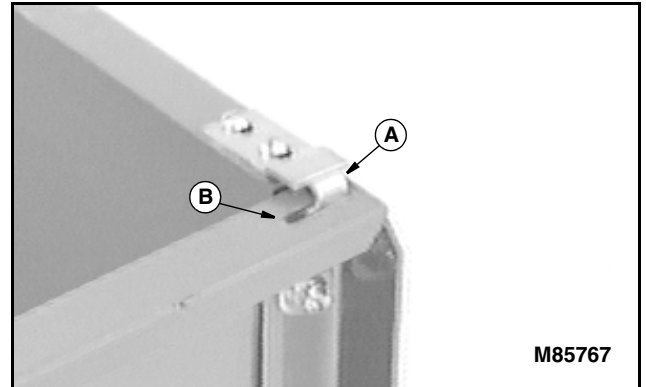
TO LOAD TRAILER:



CAUTION: Before you load the cart:

- Cart must be connected to vehicle.
- Cart box must be locked down.
- **DO NOT overload cart - capacity is 317 kg (700 lbs).**

1. Attach cart to vehicle (see Attaching Cart).
2. Lock down cart box (see Locking Down Cart Box).
3. Install tailgate (see Installing and Removing Tailgate).
4. Make sure each side latch bracket (A) of tailgate is hooked in each slot (B) of cart box.
5. **DO NOT overload cart - capacity is 317 kg (700 lbs).**



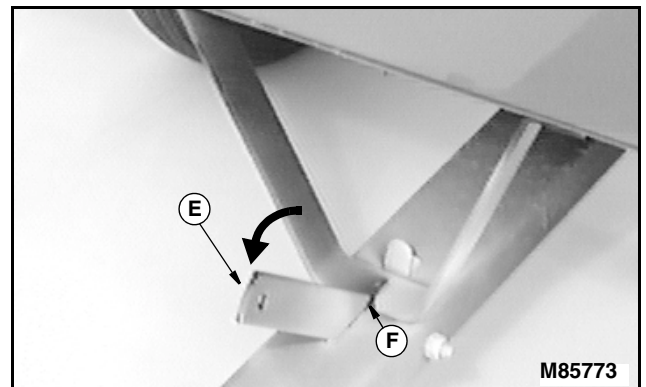
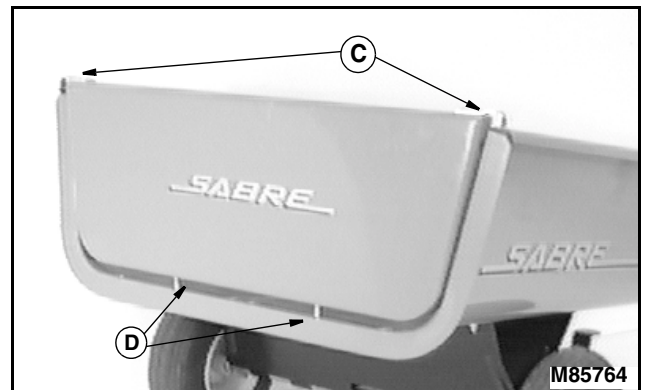
TO UNLOAD TRAILER:



CAUTION: Before you unload the cart:

- Stop the engine.
- Lock the park brake.
- Remove the key
- Keep feet and bystanders away from cart.

1. Unlock tailgate latch brackets (C) and pull upward on tailgate until anchor studs (D) clear cart bed holes.
2. Hold down on cart box while pulling dump lever (E) forward to release cart latch bracket (F).
3. Gradually release downward pressure on cart box to slowly dump cart.



OPERATING MACHINE

Installing and Removing Tailgate

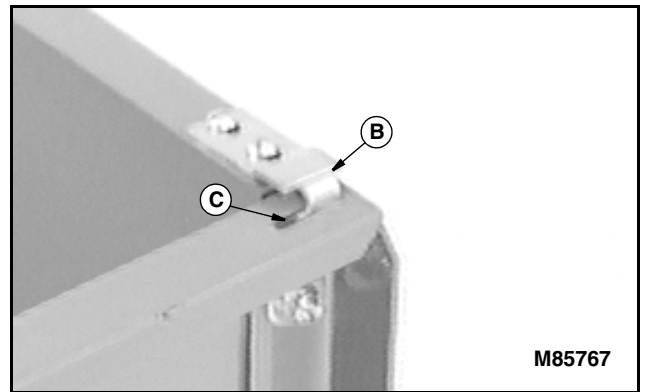
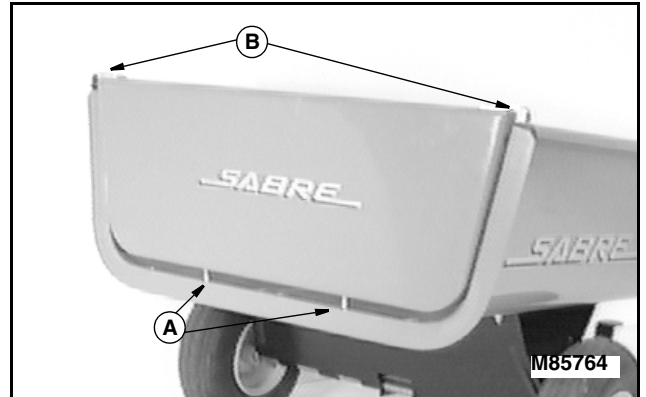
TO INSTALL TAILGATE:

1. Install tailgate by aligning anchor studs (A) with holes of cart bed and tailgate latch brackets (B) with cart box slots (C).
2. Make sure each side latch bracket (B) of tailgate is hooked in each slot (C) of cart box.

TO REMOVE TAILGATE:

CAUTION: Make sure cart drawbar is fastened securely to vehicle before attempting to remove tailgate while cart is loaded. Keep bystanders and feet away when removing tailgate of loaded cart.

1. Unhook each side latch bracket (B) from cart box slots (C).
2. Pull upward on tailgate until anchor studs (A) clear cart bed holes.



Checking Tire Pressure



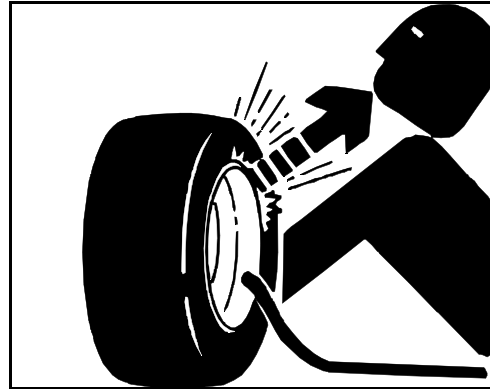
CAUTION: Explosive separation of a tire and rim parts can cause serious injury or death:

Do not attempt to mount a tire without the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly.

Check tires for low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.



NOTE: *Wheel bearings do not require lubrication.*

- Check tire inflation pressure (A).
- Add air, if necessary:

Tire Size

14 x 4-6

Pressure

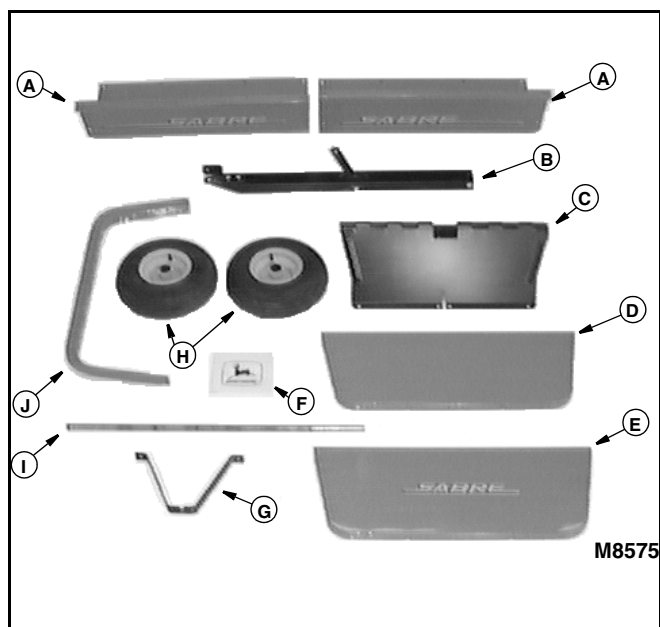
207 kPa (2.068 bar) (30 psi)



ASSEMBLY

Identify Parts

- A Bed Halves
- B Drawbar, Clevis, and Latch (not assembled for shipping)
- C Bed-to-Axle Support A-Frame
- D Front Panel
- E Tailgate Panel with Decal
- F Bag of Parts
- G Transport Latch Bracket
- H Wheels
- I Axle
- J Tailgate Support Frame



Bag of Parts

Qty	Part Description
Used	
1	Dump Lever
1	Spring, Dump Lever
2	Spacer, Dump Lever
2	Latch, Tailgate
4	Washer, Axle (3/4 x 1-1/2-Inch)
1	Clevis
2	E-Ring, Axle
1	S-Hook, Tether Chain (pre-assembled)
1	Hitch Pin (pre-assembled)
1	Tether Chain (pre-assembled)
1	Locking Ring, Tether Chain To Hitch Pin (pre-assembled)
1	Spring Locking Pin, Hitch Pin

ASSEMBLY

Bag of Parts (Continued):

Qty	Part Description	Size
Used		
8	Flat Allen-Head Cap Screws	5/16 x 3/4-Inch
33	Lock Nut	5/16-Inch
1	Hex Lock Nut	3/8-Inch
1	Cap Screw	3/8 x 3-1/2-Inch
4	Round-Head Machine Screw	5/16 x 1-Inch
12	Round-Head Machine Screw	5/16 x 1/2-Inch
8	Round-Head Machine Screw	5/16 x 3/4-Inch
9	Washer, Special	5/16 x 1-1/8-Inch
4	Round-Head Machine Screw	1/4 x 1/2-Inch
4	Lock Nuts	1/4-Inch
2	Pin, Tailgate	5/16-Inch
2	Lock Washer, Front Panel	5/16-Inch

Assemble Cart

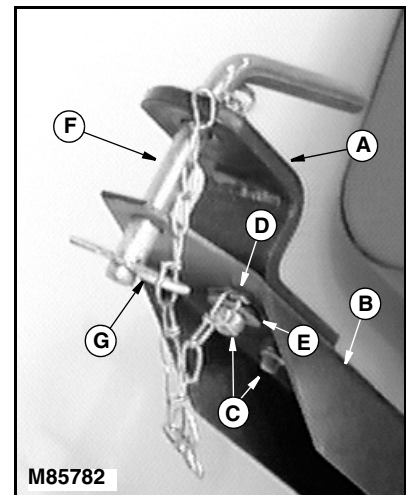
When assembling cart do the following:

- Read entire Assembly Section before beginning.
- Place pieces of carton under cart to protect finish.
- DO NOT tighten any lock nuts during cart assembly until instructed. This will help prevent any binding or misalignment from occurring.
- Install all cart box screws from inside-out so heads are visible when looking down into cart box.



Install Clevis and Hitch Pin on Drawbar

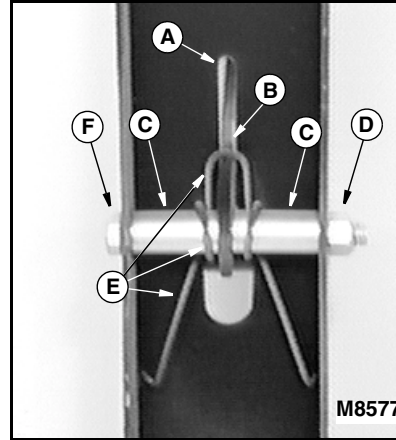
1. Put chain "S" hook (D) under 5/16 x 1-1/8-in. special washer (E) and front lock nut (C).
2. Fasten clevis (A) to drawbar (B) with two 5/16 x 1-in. round-head screws and 5/16-in. lock nuts (C) (underneath drawbar).
3. Tighten lock nuts.
4. Install hitch pin (F) and fasten with spring locking pin (G), going through one of chain links first then hitch pin.



ASSEMBLY

Assemble Dump Lever

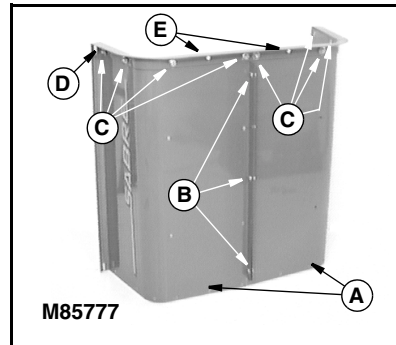
1. Put dump lever through slot (A) in drawbar with notch (B) in lever facing rear of drawbar.
2. Align spacers (C), spring (E) [with its loop against lever], and lever mounting hole with drawbar mounting holes.
3. Install 3/8 x 3-1/2-in. bolt (F) through drawbar, spacers, spring, and lever.
4. Fasten with 3/8-in. lock nut (D) and tighten nut until lever has slight amount of drag.



Assemble Cart Box

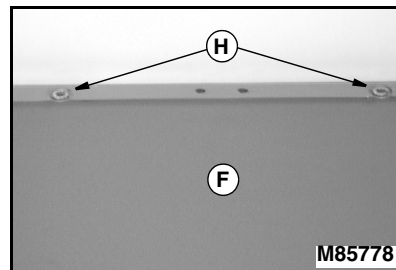
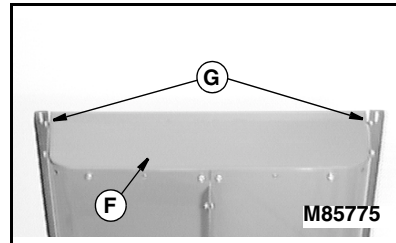
NOTE: On flat surface assemble cart halves standing on one end. Use carton liners to protect cart halves.

1. Align cart halves (A) so flanges are flush and fasten with three 5/16 x 1/2-in. round-head machine screws and lock nuts (B) - tighten lock nuts.
2. Use tapered punches in two holes (E) to align and hold tailgate support L-bracket (D) with cart box holes.



CAUTION: Cart weighs approximately 15 kg (32 lb.) at this point. You may need help to turn cart over.

3. Fasten L-bracket to cart halves with eight 5/16 x 3/4-in. flat allen-head machine screws (inside-out), large special washers, and lock nuts (C) - hand tight only.
4. Turn cart box over to install front panel (F) and install two 5/16 x 1/2-in. round-head machine screws (inside-out) and lock nuts in top holes (G) - hand tight only.
5. From bottom side of cart box, use tapered punches to align and hold two 5/16-in. lock washers between front panel depression holes (H) and cart box holes.



ASSEMBLY

6. Install two 5/16 x 1-in. round-head machine screws (inside-out) through front panel holes, lock washers, and cart box holes (I) at same time punches are removed. Be sure screws remain in contact with tips of punches as screws are installed so lock washers remain captured on screws, between front panel and cart box.

7. Install latch bracket (J) with notch pointing up (front of cart) on screws just installed and fasten with lock nuts (K) - hand tight only.

8. Install remaining six 5/16 x 1/2-in. round-head machine screws (G) (inside-out) in front panel and fasten with 5/16-in. lock nuts - hand tight only.

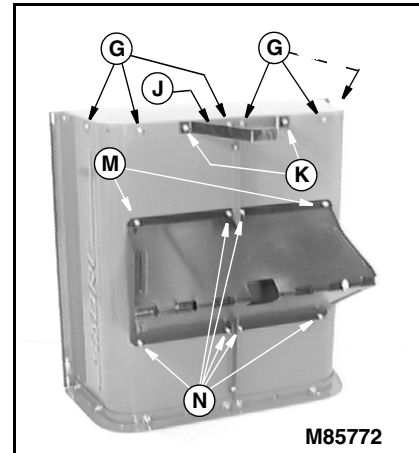
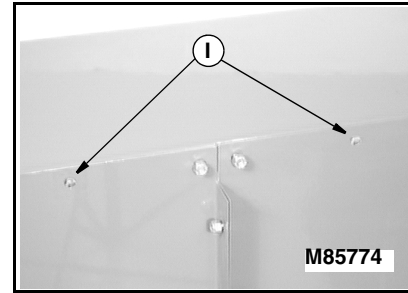
9. Install one-piece axle support A-frame (L) on two tapered punches (inside-out) in holes (M).

10. Install six 5/16 x 3/4-in. round-head machine screws (inside-out) in remaining six holes (N), fasten with lock nuts - hand tight only.

11. Remove punches and install remaining two 5/16 x 3/4-in. round-head machine screws (inside-out) in holes (M) and fasten with lock nuts - hand tight only.

12. In the order of assembly thus far, tighten ALL lock nuts not tightened to this point - keep mating surfaces in proper alignment.

NOTE: Remember to draw eight flat allen-head cap screws flush with bed sheet metal surface.



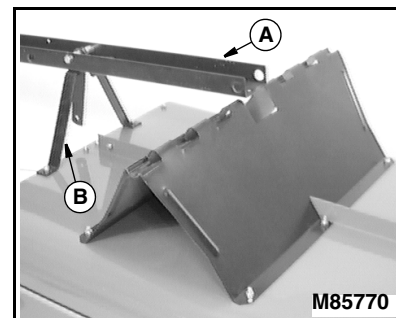
Assemble Drawbar and Axle



CAUTION: Cart weighs approximately 15 kg (32 lb.) at this point. You may need help to turn cart over.

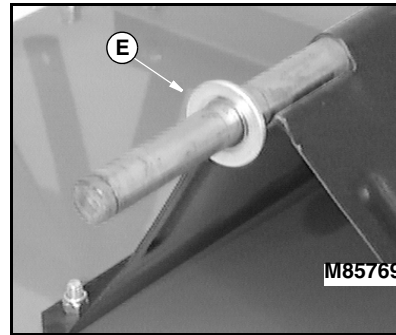
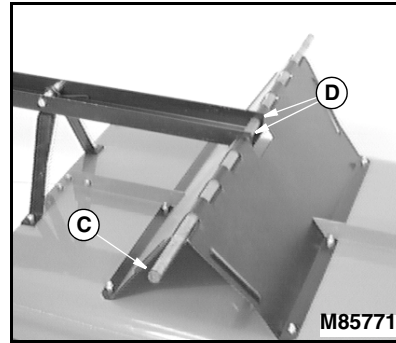
1. Put cart box on its top and place drawbar (A) on tilt bracket (B) so lever notch engages tilt bracket notch.

NOTE: You may have to tap axle with a hammer. Use a rubber hammer or put a piece of cloth over end of axle before tapping to protect end of axle from damage.



ASSEMBLY

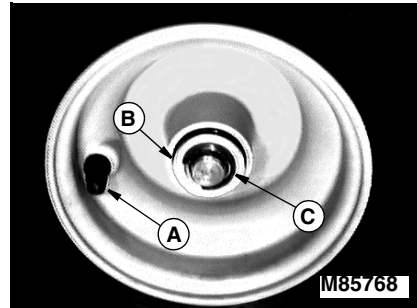
2. Slide axle (C) through one end of axle support A-frame, drawbar holes (D), through other end of A-frame until centered.
3. Install one large washer (E) (3/4 x 1-1/2-Inch) on each end of axle.



Install Wheels

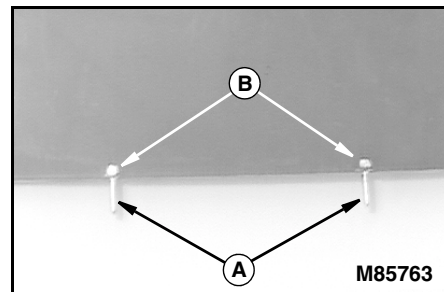
NOTE: Apply a small amount of John Deere Corn Head Grease, NLGI Grade #0 (AN102562) or it's equivalent to axle and inner race surface of nylon wheel bearings to lubricate and increase bearing life.

1. Slide one wheel on each side of axle with valve stem (A) to the outside.
2. Install washer (B) on axle and E-ring (C) into axle groove on both sides.
3. Inflate tire pressure to 207 kPa (2.068 bar) (30 psi).



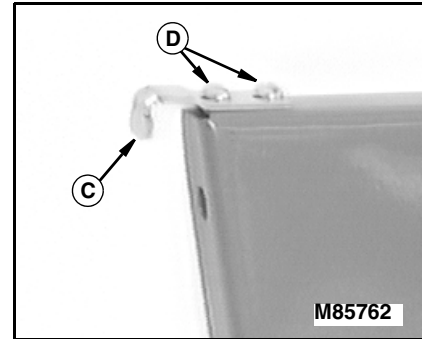
Assemble Tailgate

1. Put threaded end of tailgate pins (A) in tailgate (outside-in) and fasten with 5/16-in. lock nuts (B) - tighten lock nuts.



ASSEMBLY

2. Install tailgate latches (C) on each side of tailgate with two 1/4 x 1/2-in. round-head machine screws (D) (outside-in) and two lock nuts from underneath - hand tight only.



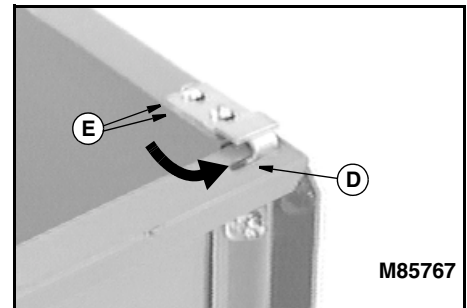
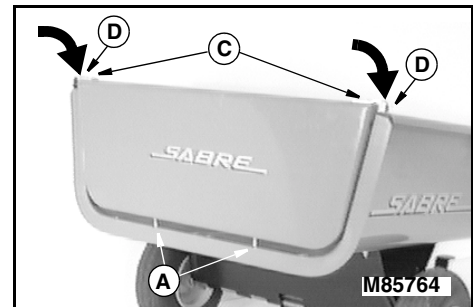
3. Install tailgate by positioning anchor studs (A) in cart box holes and latches (C) over top of cart box slots (D).

4. To adjust latches, push tailgate down until it rests on bottom of cart box and tabs of latches are centered in slots (D).

5. Align and clamp edges (E) of tailgate and latches.

6. Tighten lock nuts and remove clamp.

7. Tailgate may move back and forth when cart is empty; however, when cart is loaded tailgate should be pulled rearward to hook latch tabs under end of slots (D).



SPECIFICATIONS

Cart Specifications

Box Capacity	0.20 m ³ (7 cu. ft.)
Maximum Load	355 kg (780 lb)
Tongue Weight (10% of Load)	31.8 kg (70 lb)
Empty Weight	33.1 kg (73 lb)
Box Dimension:	
Width	813 mm (32-in.)
Length	864 mm (34-in.)
Depth	305 mm (12-in.)
Ground Clearance	146 mm (5-3/4-in.)
Dump Angle	30 Degrees
Tires:	
Type	Pneumatic
Construction	2-ply
Size	14 x 4-6
Inflation Pressure	207 kPa (30 psi) (2.068 bar)
Wheel Bearings	Nylon

(Specifications and design subject to change without notice.)

INDEX

A

Assemble Cart	11
Assemble Cart Box	12
Assemble Drawbar and Axle	13
Assemble Dump Lever	12
Assemble Tailgate	14
Attaching Cart	2
Axle and Drawbar, Assemble	13

B

Bag of Parts	10
--------------------	----

C

Cart Box, Assemble	12
Cart Safety	4
Cart Specifications	16
Cart, Assemble	11
Cart, Attaching	2
Cart, Loading and unloading	7
Cart, Removing	3
Checking Tire Pressure	9
Clevis and Hitch Pin on Drawbar, Install	11

D

Drawbar and Axle, Assemble	13
Drawbar, Install Clevis and Hitch Pin on	11
Dump Lever, Assemble	12

I

Identify Parts	10
Install Clevis and Hitch Pin on Drawbar	11
Install Tailgate	14
Install Wheels	14
Installing and Removing Tailgate	8

L

Loading and Unloading Cart	7
----------------------------------	---

O

Operate Machine Safely	4
Operate Trailer Safely	4

P

Parts, Bag of	10
Parts, Identify	10

R

Removing Cart	3
---------------------	---

S

Safety Label	1
Specifications, Cart	16

T

Tailgate, Assemble	14
Tailgate, Installing and Removing	8
Tire Pressure, Checking	9

W

Wheels, Install	14
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NOTES

SERVICE LITERATURE

Order Form

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Name _____

Address _____

City _____

State _____

Zip _____ Phone: () _____

Title	Order Number	Price Each	x Quantity	= Total
Parts Catalog	PC2152	(Call 1-800-522-7448 for current prices.)	x	=
Operator's Manual	OMM135017		x	=
			x	=
			x	=
Sub-total				
Method of Payment	Illinois state residents add 6.25% and Iowa state resident add 4% for Retail Occupation Tax or show tax exemption number. Other states excluded. Total Shipping & Handling (from table below) (Prices subject to change without notice - DEC 91) Amount Due in U.S. Dollars			
___ Check/Money Order Enclosed				
___ John Deere Credit Card				
___ MasterCard				
___ Visa	Subtotal Shipping/Handling			Optional shipping available. Please check and add cost to normal shipping: ___ 1 day air.....\$15.00 ___ 2 day air.....\$10.00
___ American Express				
___ Discover				
___ Farm Plan				
Credit Card Acct. No.				
(13 or 16 digits)				
___ - ___ - ___ - ___				
Expiration Date:	25.00 to 49.99	5.50		
Signature:	50.00 to 99.99	7.50		
	100.00 and over	4% of sub total		

NOTES

QUALITY DOESN'T END WHEN YOU INVEST IN A SABRE BY JOHN DEERE

SABRE by John Deere equipment is more than just a purchase, it's an investment in quality. That quality goes beyond our equipment to your SABRE dealer's parts and service support. This support is needed to keep you a satisfied customer.

That's why John Deere has initiated a process to handle your questions or problems, should they arise. The following three steps will help guide you through the process.



Step 1

Refer to your operator's manual

- A. It has many illustrations and detailed information on the safe and proper operation of your equipment.
- B. It gives troubleshooting procedures, and specification information.
- C. It gives ordering information for parts catalogs, service and technical manuals.
- D. If your questions are not answered in the operator's manual, then go to Step 2.

Step 2

Contact your Authorized SABRE Service Center

- A. Your SABRE Service Center can answer your questions, resolve problems, and fulfill your parts and service needs.
- B. First, discuss your questions or problems with your service center's parts and service staff.
- C. If the parts and service people are unable to resolve your problem, see the service center manager or owner.
- D. If your questions or problems are not resolved by the service center, then go to Step 3.

Step 3

Call the John Deere Customer Communications Center

- A. Your SABRE Service Center is the most efficient source in addressing any concern, but if you are not able to resolve your problem after checking your operator's manual and contacting your service center, call the Customer Communications Center.
 - B. For prompt, effective service, please have the following ready before you call:
 - The name of the dealer or service center with whom you've been working.
 - Your equipment model number.
 - Number of hours on machine (if applicable).
 - Your 13-digit serial number which you recorded on the inside front cover of this manual.
 - If the problem is with an attachment, your attachment identification number.
 - C. Then call 1-800-537-8233 and our representative will work with your dealer or service center to investigate your concern.
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