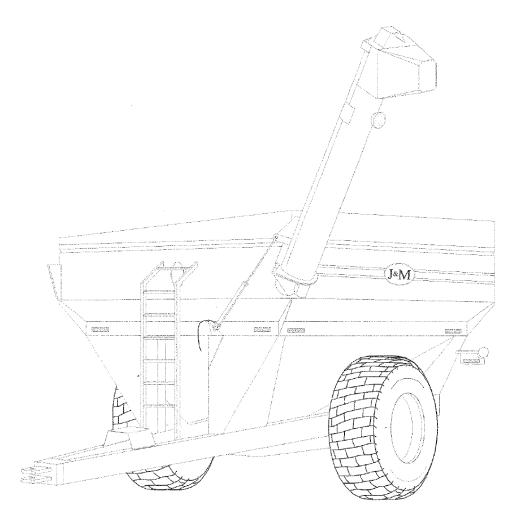
OPERATOR'S MANUAL

Model 525-14W Grain Cart Model 620-14 Grain Cart Model 750-14 Grain Cart Model 750-16 Grain Cart Model 875-16 Grain Cart Model 1075-16 Grain Cart



J. & M. Manufacturing Co., Inc. 284 Railroad St., P.O. Box 547 Fort Recovery, OH 45846

J. & M. Mfg. Co. Inc.

Express Warranty

J. & M. Mfg. Co. Inc. warrants against defects in construction or materials for a period of ONE year. We reserve the right to inspect and decide whether material or construction was faulty or whether abuse or accident voids our guarantee.

This warranty does not cover a component which falls, malfunctions or is damaged as a result of (i) improper modification or repair, (ii) accident, abuse or improper use, (iii) improper or insufficient maintenance, or (iv) normal wear and tear.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.

In no event shall J. & M. Mfg. Co. Inc. be liable for special, direct, incidental or consequential damages of any kind, including but not limited to labor charges.

The exclusive remedy under this Warranty shall be repair or replacement of the defective component at J. & M. Mfg. Co. Inc. option. This is the entire agreement between J. & M. Mfg. Co. Inc. and the Owner about warranty and no J. & M. Mfg. Co. Inc. employee or dealer is authorized to make any additional warranty on behalf of J. & M. Mfg. Co. Inc.

INTRODUCTION:

J & M Models 525-14W, 620-14, 750-14, 750-16, 875-16 and 1075-16 Grain Carts are designed, manufactured and sold for farm use. It is not for use on highways except as incidental to farm use.

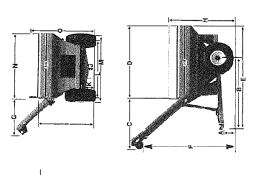
The manufacturer reserves the right to make product design and material changes at any time without notice. They shall not incur any obligation or liability to incorporate such changes and improvements in products previously sold to any customer, nor shall they be obligated or liable for the replacement of previously sold products with products or parts incorporating such changes.

(fill in the following for future reference)
Serial No
Date of Purchase
Purchased From

Patent Nos. 5,013,208; 5,100,281 and 5,340,265

SPECIFICATIONS	525-14W	620-14	750-14	750-16	875-16	1075-16
Capacity	up to 525 bu.*	up to 620 bu.*	up to 750 bu.*	up to 750 bu.*	up to 875 bu.*	up to 1,075 bu.*
Auger, one vertical	14"	14"	14"	16"	16"	16"
Wheels	20 x 26 or 21 x 32	21 x 32 or 27 x 32	21 x 32 or 27 x 32	21 x 32 or 27 x 32	27 × 32	31 x 32
Hubs	10 Bolt	10 Bolt	10 Bolt	10 Bolt	10 Bolt	10 Bolt
Spindles	41/2"	4'/2"	41/2"	4'/2"	41/2"	.9
Weight: (approx.)	5,640#	6,950#	7,200#	7,350#	8,750#	10,400#
PTO	1,000 rpm	1,000 rpm	1,000 rpm	1,000 rpm	1,000 rpm	1,000 rpm
Tire Size	23.1 x 26, 10 ply;	24.5 x 32, 12 ply, or	24.5 x 32, 12 ply; or	24.5 x 32, 12 ply; or	30.5 x 32, 12 ply	35.5 x 32, 20 ply
	or 24.5 x 32, 12 ply	30.5 x 32, 12 ply	30.5 x 32, 12 ply	30.5 x 32, 12 ply	•	
Tongue Weight: Empty	#096	1,000#	1,100#	1,100#	1,250#	1,300#
Tongue Weight: Loaded	1,950#	2,100#	2,700#	2,700#	4,300#	4,600#
Hopper	12 GA Steel	12 GA Steel	12 GA Steel	12 GA Steel	12 GA Steel	12 GA Steel
Undercarriage	8" x 4" x 3/16" Tubing	8" x 4" x 7/16" Tubing	8" x 4" x 1/4" Tubing	8" x 4" x 1/2" Tubing	8" x 4" x %; "Tubing	8" x 4" x 3/1" Tubing
Axle	5" x 5" x 1/2" Tubing	5" x 5" x 1/2" Tubing	5" x 5" x 1/2" Tubing	5" x 5" x 1/2" Tubing	5" x 5" x 1/2" Tubing	7" x 7" x 1/2" Tubing
Unloading Time" (approx.)	3.5 minutes	3.7 minutes	4 mirutes	3.5 minutes	4 minutes	5 minutes

*Bushel capacities were measured with #2 corn at 15% moisture (56 lbs. test weight). **Time varies with rpm and moisture content of grain.



DIMENSIONS	525-14W	620-14	750-14	750-16		1075-16
Þ	17"	17"	18"	19"		21"
æ	154"	154"	153"	153"		172"
ပ	71"	71"	.69	75"		74"
۵	144"	158"	168"	168"	192"	224"
ш	217"	226"	.558	229"		276"
ш.	153"	153"	150"	153"		156"
g	8	87"	.92	.08		8
I	124"	136"	134"	135"		145"
_	103"	103"	120"	124"		125"
7	14"	18"	18,	18"		16"
¥	19"	24"	24"	24"		29"
	120"/144"	120"/144"	120"/144"	120"/144"		136"
×	144"/160"	144"/160"	144"/160"	144"/160"		172"
z	120"	142"	141"	141"		150"
0	118"	129"	128"	129"		137"

Specifications are subject to change without notice or obligation.

TO THE OWNER



THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.

IMPORTANT

If This Machine Is Used By An Employee Or Is Loaned Or Rented, Make Certain That The Operator(s), Prior To Operating:

- 1. Is Instructed In Safe And Proper Use.
- 2. Reviews And Understands The Manual(s) Pertaining To The Machine.

Read this manual before you operate the machine. If you need more information, see your J & M dealer.



Understand that your safety and the safety of other persons is measured by how you service, and operate this machine. Know the positions and functions of all controls before you try to operate them. Make sure to check all controls in a safe area before starting your work.

The safety information given in this manual does not replace safety codes, federal, state or local laws. Make certain your machine has the proper equipment as designated by local laws and regulations.

A frequent cause of personal injury or death is from persons falling off equipment and being run over. Do not permit persons to ride on this machine.

Travel speed should be such that complete control and machine stability is maintained at all times. Where possible, avoid operating near ditches, embankments and holes. Reduce speed when turning, crossing slopes and rough, slick or muddy surfaces.

Collision of high speed road traffic and slow moving machines can cause personal injury or death. On roads, use flasher lights according to local laws. Keep slow-moving-vehicle emblem visible. Pull over to let faster traffic pass.

Hydraulic oil leaking under pressure can penetrate skin and cause infection or other injury. To Prevent Personal Injury:

Relieve all pressure, before disconnecting fluid lines.

Before applying pressure, make sure all connections are tight and components are in good condition.

Never use your hand to check for suspected leaks under pressure. Use a piece of cardboard or wood for this purpose.

If injured by leaking fluid, see your doctor immediately.

When transporting grain cart, always keep auger in stow position.

Use care when moving or operating grain cart near electric lines as serious injury or death can result from contact.

Never adjust, service, clean, or lubricate grain cart until all power is shut off.

Keep all safety shields in place.

Keep hands, feet, and clothing away from moving parts while unit is in operation.

The service ladder is for service work only. If you must climb into grain tank, be certain that all power is shut off and then use extreme caution when climbing into grain cart.

Make sure that everyone is clear of equipment before applying power or moving the machine.

Make sure that the grain cart is fastened securely to the tractor by using a high strength hitch pin, clip and safety chains.

Before filling the grain cart, make certain that no one is inside the grain tank. <u>Never</u> allow children or anyone in, near, or on the grain cart during transport or during loading and unloading of grain. Be aware that moving grain is dangerous and can cause entrapment, resulting in severe injury or death by suffocation.

<u>Never</u> operate the auger system with anyone inside of the grain tank. Hands, feet, hair, and clothing can fit through the openings in and around the grate. Contact with the auger can cause severe injury or death. Make certain that all power is shut off before service work is performed.

A SAFETY SIGNS

IMPORTANT: Install new safety signs if the old signs are destroyed, lost, painted over or cannot be read. When parts are replaced that have safety signs, make sure you install a new sign with each new part. New signs are available from your J. & M. dealer or write to:

J. & M. Mfg. Co. Inc. Parts Department 284 Railroad Street, Box 547 Ft. Recovery, OH 45846





s rummer.





4

Reference	
Number	Description
1	Sign, Danger
2	Sign, Danger
3	Sign, Danger
4	Sign, Danger
5	Sign, Caution
6	Sign, Important
7	Sign, Warning
8	Sign, Farm Use
9	Sign, Open
10	Sign, Closed

Part #	Req'd
DD-1	1
DD-2	3
DD-3	1
DD-4	3
DC-5	1
DI-6	1
DW-7	1
DF-8	1
DO-9	1
DC-10	1





Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands. Keep all components in good repai

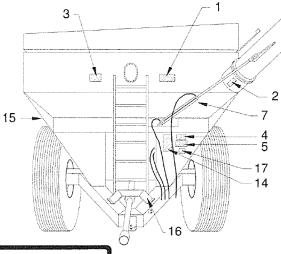
17

CAUTION



5

14





WARNING KEEP HANDS AND CLOTHING AWAY FROM MOVING PARTS

16

CAUTION KEEP LUG NUTS TIGHTENED

Reference			
Number	Description	Part #	Req'd
11	Sign, J&M – Sm.	DD-11	2
12	Sign, J&M – Lg.	DD-12	4
13	Sign, Vinyl	DD-13	1
14	Sign, Danger	DD-14	1
15	Sign, Caution	DD-15	2
16	Sign, Danger	DD-16	5
17	Sign, Warning	DD-17	1



NOTE: BE CERTAIN THAT ALL POWER IS SHUT OFF BEFORE SERVICING THE GRAIN CART.

Before the grain cart is put into service, make certain that:

The gearbox is properly filled with EP 80-90 gearbox lubricant.

All nuts, bolts, bearings, and braces are properly fastened.

IMPORTANT: The slip clutch on the PTO has been serviced. If the slip clutch is left unchecked, damage to the power-take-off and drive shaft may result. Before using the grain cart, loosen the bolts around the slip clutch. Make sure that the friction plates turn free of each other and are not corroded together. Retighten the tension bolts. Run the auger system Empty and check for proper engagement of the slip clutch.

All bearings on the driveline are properly greased. Also grease the power-take-off at all grease points including cross-bearings. Grease the universal-joint at the gearbox.

The hanger bushing assembly at the auger hinge has been greased and that all grease points at the hinge area have been greased.

The tires are properly inflated. See tire manufacturer's recommendation for proper inflation.

The safety instructions have been read and clearly understood by the operator(s) of this machine.

The wheel nuts are properly fastened (torque to 380 ft. lbs.) They should be checked after each load during initial operation of cart and then after every 10 hours of use.

NOTE: The drawing below shows the proper ways of mounting the wheels using Budd-type nuts. The wheels supplied with your J & M Grain Cart have straight holes and the Budd nuts will be mounted according to Figure 1 below.

Wheels that are improperly installed on the grain cart, resulting in product failure, will nullify warranty and shift the burden of liability to the owner/operator of the equipment.

We suggest that you inspect your wheel nuts to make sure that they are properly installed. Also, check the wheel nuts on a regular basis to ensure they are tight.

WHEELS WITH STRAIGHT HOLES

WHEELS WITH CHAMFERED HOLES
FIGURE 2



NOTE: BE CERTAIN THAT ALL POWER IS SHUT OFF WHEN HOOKING UP PTO TO TRACTOR OR CONNECTING HYDRAULIC LINES TO TRACTOR.

Preparing Grain Cart for Use

Model 525-14W Grain Cart requires 100 hp tractor or larger. Model 620-14 Grain Cart requires 130 hp tractor or larger. Model 750-14 Grain Cart requires 130 hp tractor or larger. Model 750-16 Grain Cart requires 130 hp tractor or larger. Model 875-16 Grain Cart requires 150+ hp or 4 WD tractor. Model 1075-16 Grain Cart requires a 4 WD tractor.

NOTE: Do NOT pull loaded grain cart on highway. For incidental highway travel, observe the following:

Weight of the grain cart relative to

Road Speed	the weight of the tractor .
Up to 32 km/h (20 mph)	1 to 1, or less
Up to 16 km/h (10 mph)	2 to 1, or less
Do not tow	More than 2 to 1

- 1) Hook-up grain cart to tractor using a good quality hitch pin. Attach a safety chain (not included) to the tractor and around the A-frame of the cart.
- 2) Attach power-take-off shaft to tractor. PTO must have at least 5" of engagement. Check tractor drawbar for clearance and length and adjust if needed. Make sure that the PTO does not bottom out when making sharp turns as it may bend the drive shaft.
- 3) Make sure that jack stand is removed from lower support position before cart is moved.
- 4) Be sure that no debris or foreign objects are in grain cart.
- 5) Attach hydraulic lines to tractor. Two hydraulic lines operate the gate mechanism. Connect these lines to one service outlet on the tractor. The remaining two lines operate the folding mechanism of the auger. Connect these lines to a second service outlet on the tractor. Make sure that air is bled from hydraulic cylinders and lines.
- 6) Run auger system EMPTY before actual use. Make certain that slip clutch is operating and that upper and lower augers engage properly.
- 7) Connect lighting hook-up to tractor electric outlet.



LOADING AND UNLOADING THE GRAIN CART

- 1) With the gate indicator in the closed position, fill the box with grain.
- 2) With the PTO disengaged, fold discharge auger to upright position.
- 3) IMPORTANT: After the auger is in the upright position, be sure to start the PTO at a SLOW RATE OF SPEED until the lugs on the upper auger engages the drive dog on the bottom auger (failure to follow this procedure may cause extensive damage to both the drive dog and drive line).
- 4) Increase PTO speed and open the inner gate until the pointer is in the halfway position. When grain begins flowing from the discharge auger, open gate to the full open position.
- 5) Once the grain has ceased to flow, return the gate to the closed position (for complete clean-out, gradually close gate, allowing the opening to be reduced). Disengage the PTO and allow its rotation to come to a complete stop. Auger is now ready to be returned to the lowered position. (Important -Do Not pull the grain cart through the field with the unloading auger in the upright position. Failure to return auger to the lowered position may damage hinge and greatly reduce the life of the auger system.)



A CAUTION TO THE OPERATOR(S)

- · Do Not operate grain cart before reading and understanding the operator's manual and ALL danger, warning, and caution signs.
- Be sure that a slow-moving-vehicle emblem is attached to the rear of the grain cart.
- Never exceed 1,000 rpm on the system.
- Never fold or extend the auger until PTO has come to a complete stop.
- Never fill grain cart unless gate indicator is in the closed position.
- Never allow foreign objects (shovels, etc.) to be placed inside the grain cart.
- · Never engage lugs and drive dog when system is moving at a high rate of speed.
- Never do maintenance work or service the cart with the tractor running.



LUBRICATION SERVICE SCHEDULE

Your J & M grain cart has grease fittings at all critical points. These should be serviced before the cart is put into operation. BE CERTAIN THAT ALL POWER IS SHUT OFF BEFORE SERVICING THE GRAIN CART.

Hitch: There is a grease fitting located on the pivot shaft of the swivel hitch.

PTO & Drive Line: The grease fittings on the PTO should be serviced after every 8 hours of use. Service the grease fittings on each of the drive bearings and also the universal joint after every 8 hours if use.

Folding Mechanism of Auger: One grease fitting is located on the pivot pin of the folding auger. This fitting should be serviced after every 8 hours of use. Service the grease fitting on the hanger bushing assembly (top end of the lower auger assembly) after every 8 hours of use or as needed.

Spring Loaded Top Auger Bearing: Service the grease fitting on the upper auger bearing (located on the top end of the upper auger assembly) after every 8 hours of use. Lubricate springs and retaining bolts on the bearing before prolonged storage of the grain cart.

Gearbox: Gearbox lubricant has been added to the gearbox during final assembly. Recheck lubricant level before initial operation of the cart. The fluid level should be checked from time to time. An inspection plug is located in the center of the top of the gearbox mount plate. To check the fluid level, remove drain plug at bottom of gearbox and also the vented inspection plug. Drain lubricant. Return drain plug and refill gearbox with 24 ounces of gearbox lubricant. (Gearbox is properly filled when half full of lubricant). DO NOT OVERFILL. Use EP 80-90 gearbox lubricant or equivalent.



ROUTINE MAINTENANCE

IMPORTANT - WHEN SERVICING THE GRAIN CART, BE CERTAIN THAT ALL POWER IS SHUT OFF.

- Repack the wheel bearings at least once a year. Use Bearing Gard MK 1 or equivalent lubricant. Also check the seal for wear and replace if necessary.
- Check the grain cart periodically for cracks in welds and for other structural damage. Have cracked welds fixed immediately. Failure to do so could result in extensive damage to the grain cart and greatly reduce the life of the cart.



ROUTINE MAINTENANCE (Continued)

- Lubricate the slides on the clean-out door.
- Check hydraulic hoses for wear and replace if needed.
- Make sure that the tires are properly inflated. Inflate according to tire manufacturers recommendations.
- Check PTO for wear of plates in slip clutch. Replace if needed.
- Make sure that all guards and shields are in place before operating the grain cart.

TROUBLE SHOOTING

IMPORTANT - MAKE SURE THAT ALL POWER IS SHUT OFF BEFORE SERVICING THE GRAIN CART. MAINTENANCE AND REPAIR SERVICE WORK TO BE PERFORMED BY QUALIFIED SERVICEMEN ONLY.

Trouble Auger will not return to down position or move from stow position	Possible Cause Dirt in restricter	Possible Remedy Remove restricter fittings from outside hydraulic cylinder and clean out dirt
	Upper flighting and lower flighting locked together	Bearing on top of upper flighting needs adjusting. When auger is in engaged position, there must be 1/8" gap between bottom of top bearing and top of upper tube assembly (SEE ADJUSTING THE UPPER FLIGHTING)
Slip clutch not working properly	Pressure plates (lining) corroded together	Loosen bolts around slip clutch, remove dirt and corrosion, and retighten bolts to proper tension
Hanger bushing assy. at top of lower	Top of hanger bushing assembly is rubbing	Adjust position of hanger bushing assembly
flighting is hot	against drive-dog	Remove lower flighting assembly and place a shim between spline & gearbox



Trouble	Possible Cause	Possible Remedy
Excessive Vibration	Auger flighting or shaft is bent	Straighten or replace auger flighting assembly
	Drive shaft is bent	Replace or straighten drive shaft
Grain flow stoppage	Bolt sheared in drive- dog	Replace bolt in drive-dog. Engage upper and lower flighting at a slow rate of speed. (Drive-dog and lugs are being engaged at too fast a rate of speed)
	Bolt sheared in drive- dog	Upper and lower flighting are disengaged before auger comes to a complete stop. Replace bolt in drivedog. Never engage or disengage upper and lower flighting until auger comes to a complete stop
	Slip clutch not working properly	Inspect clutch linings and replace if worn
	PTO key sheared	Replace key and tighten set screw
Auger tube breaking away from grain cart at hinge	Auger is extended in upright position while traveling in field	Lower auger to stow position after unloading



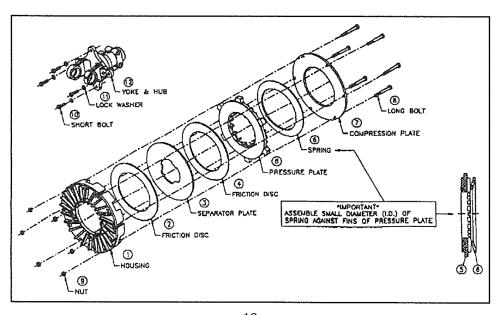
A ADJUSTING THE SLIP CLUTCH

If the machine has never been used or has not been operated for (1) season, the following is recommended.

- 1) Make sure the tractor is off and the PTO is disengaged.
- 2) Disconnect the driveline from the tractor.
- 3) Locate the (6) bolts (Item 8) on the O.D. of the clutch pak. Loosen the bolts until they rotate freely, finger tighten each bolt, and then tighten each bolt one half turn.
- 4) Attach the implement to the tractor with a hitch pin, and the driveline to the tractor PTO shaft.
- 5) Start the tractor. Engage the tractor PTO and run a few seconds, or until the friction clutch visibly smokes.
- 6) Disengages the tractor PTO and shut the tractor off.
- 7) Disconnect the driveline from the tractor.
- 8) Tighten the (6) bolts (Item 8) on the O.D. of the clutch pak until the compression plate (Item 7) is in contact with the housing (Item 1), then keep tightening each bolt to 30 ft-lbs.
- 9) Locate the (4) bolts (Item 10) that attach the yoke & hub (Item 12) to the clutch pak and check that each bolt is tightened to 30 ft-lbs.

TOOLS REQUIRED:

(1) 1/2" Box wrench or socket.



ADJUSTING THE LOWER FLIGHTING AND HANGER BUSHING ASSEMBLY

NOTE: MAKE SURE THAT ALL POWER IS SHUT OFF BEFORE ADJUSTING THE FLIGHTING ASSEMBLY.

If the drive-dog and hanger bushing assembly are becoming excessively hot during unloading, the lower flighting and/or hanger may need adjusting. The hanger bushing assembly has elongated holes where it attaches to the outer tube assembly. Loosen the two 3/8" bolts on the hanger bushing assembly. Adjust the hanger either up or down and locate in center between flighting center and drive-dog. Retighten the bolts. (Make certain that the flighting center and drive-dog does not rub the hanger bushing assembly causing them to become hot.)

If the hanger can no longer be adjusted by moving it up or down on the elongated holes, both the hanger bushing assembly and the lower flighting will have to be removed. After removing them from the tube assembly, place a shim (1/8" – 3/16") where the gearbox and the spline coupler (welded to lower flighting) meet. Replace the lower flighting and reattach the hanger to the tube assembly. Readjust the hanger assembly. (NOTE: The bottom of the lower flighting is not attached to the gearbox with any bolts or set screws but may be "froze" fast. Be careful when removing the lower flighting from the gearbox.) For easier removal of the lower flighting, keep the gearbox at the bottom intact, remove the 2 3/8" bolts from the hanger bushing assembly and pull the lower flighting off of the gearbox.

After adjusting the lower flighting, check the upper flighting for readjustment.

ADJUSTING THE UPPER FLIGHTING

NOTE: MAKE SURE THAT ALL POWER IS SHUT OFF BEFORE ADJUSTING THE FLIGHTING ASSEMBLY.

If the upper and lower flightings do not properly separate during the unfolding sequence, the upper flighting may need adjusting. Before making adjustment to upper flighting, check to see if the lugs and drive-dog are locking together (If not, dirt in the restricter of hydraulic cylinder on the upper tube may be the cause of the problem. *See instruction for removing dirt from the restricter).

Fold the upper tube assembly into upright position. Position upper flighting in engaged position with lower flighting. Locate 4-hole flange bearing on top of the upper tube housing. With the upper flighting *in the engaged position*, check the spacing between the upper bearing and the upper tube housing. There must be a 1/8" space between the base of the 4-hole flange bearing and the upper tube housing. If there is NOT a space between the bearing and the upper tube housing, the upper flighting will need adjusting. To adjust the upper flighting, loosen the 1½"" hex nuts both below and above the 4-hole flange bearing. Move the 1½"" hex nuts either up or down the threaded shaft on top of the upper flighting until a 1/8" gap is between the base of the bearing and the upper tube housing. Tighten the 1½"" hex nuts.

If the upper and lower flighting still does not separate properly during the unfolding sequence, a small bevel may need to be ground out of the inside of the lugs where they meet the drive-dog. Grind approximately 1/8" off of the corner of the lugs where they touch against the drive-dog.

REMOVING DIRT FROM RESTRICTERS ON HYDRAULIC CYLINDER

NOTE: MAKE SURE THAT ALL POWER IS SHUT OFF AND THE UPPER AUGER TUBE IS IN THE DOWN POSITION BEFORE REMOVING THE RESTRICTERS.

Remove restricters (ref. #49) from 90 degree street elbow on hydraulic cylinder. Remove dirt from fitting to allow hydraulic oil to flow freely through the restricter. Reattach the restricter to the street elbow. Use teflon sealant tape or equivalent on the threads of the restricter before reattaching.

If restricter continues to plug with dirt, replace or filter the hydraulic oil in your system.

STORAGE PREPARATION

When the grain cart is not going to be used for a length of time, store the cart in a dry, protected place. Leaving your grain cart outside, open to the weather, will shorten its life.

Follow the procedure below when your grain cart is placed in storage for periods up to six months.

- 1) Cover electronic monitor (if equipped) with plastic before washing the grain cart. Wash or clean and completely lubricate the grain cart. (*See the lubrication service section in this manual.)
- Remove all grain from inside the grain tank, auger tube assemblies, and at the clean-out door.
- Check gearbox oil in the gearbox and replace with new EP-80-90 gearbox lubricant if necessary.
- 4) Touch-up spots where paint has been worn away (use a good quality primer paint – especially before applying graphite paint to the inside of the grain tank).
- 5) Retract all hydraulic cylinders to prevent the piston rods from rusting.
- 6) If the grain cart is equipped with an electronic weigh system, fully charge the battery to prevent freezing. Disconnect the negative (-) ground cable at the battery to prevent possible discharge.
- 7) Clean the tires before storage. Inflate the tires at regular intervals.
- 8) Open the clean-out door at the base of the grain tank.

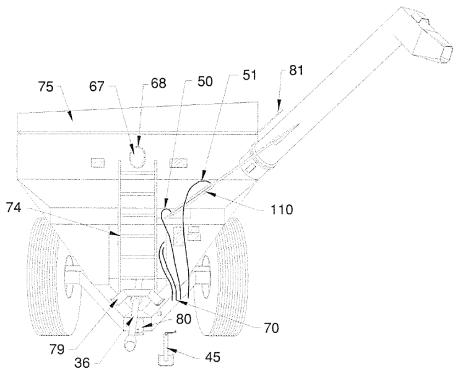
REMOVING FROM STORAGE

- 1) Check the oil in the gearbox.
- 2) Check the battery and make sure that it is fully charged (if equipped with an electronic weigh system). Reconnect the negative (-) cable.

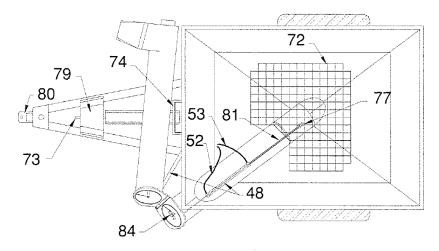
 3) Inflate the tires to the correct operating pressures.

 4) Close the clean-out door at the base of the grain tank.

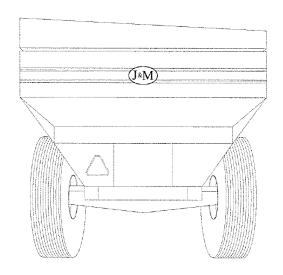
 5) Make sure that all shields are in the proper position.



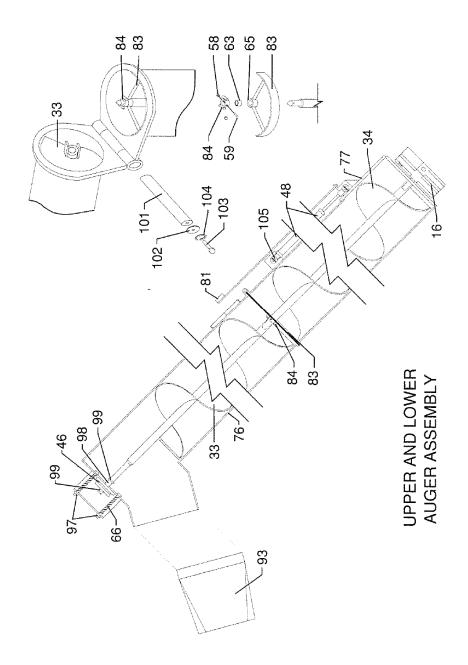
Front of Grain Cart

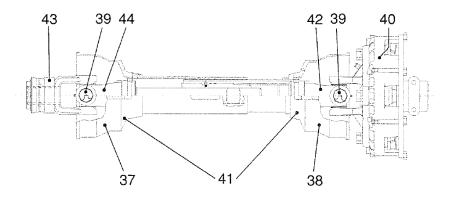


Top View of Grain Cart



Rear of Grain Cart



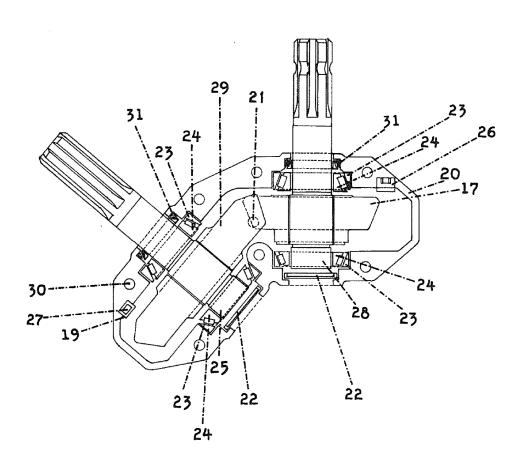


POWER TAKE-OFF SHAFT

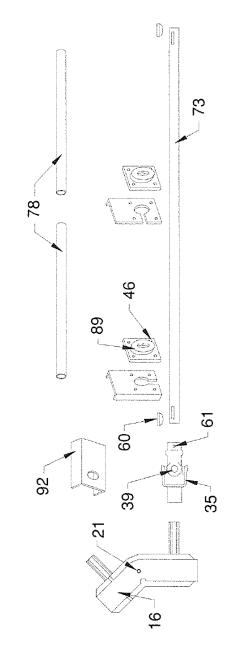
Parts List for New Style Power Take-Off Shaft for Models 525-14W, 620-14, 750-14, 750-16, 875-16, 1075-16

37	91-1400-F-138	Front Half of PTO (1 3/8")
	91-1400-F-134	Front Half of PTO (1 3/4")
38	97-18615B	Back Half of PTO
39	03-10134	Cross Kit
40	11-11167	Lining
41	16281CS	Complete Shield w/Nylon
		Bearing, Retainer
42	98-15972	Yoke & Tube
43	14122-1012	Spring-Lok Yoke (1 3/8")
	14011-1960	Spring-Lok Yoke (1 3/4")
44	99-16281	Yoke & Shaft

130 DEGREE GEARBOX ASSEMBLY



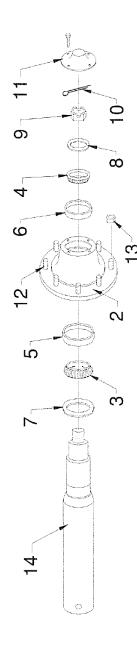
GRAIN CART DRIVE-LINE ASSEMBLY



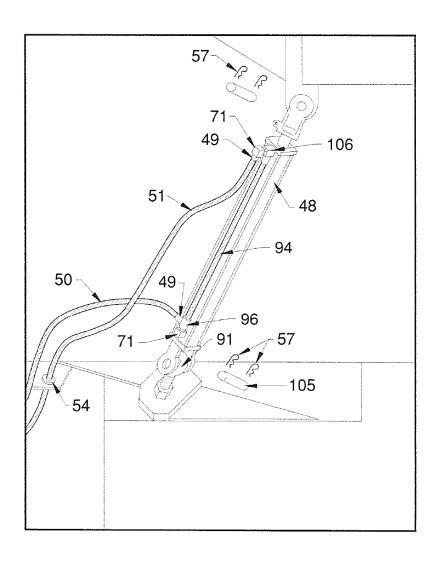
WARNING: Never operate the driveline/auger system unless all guards and shields are properly installed.

For Illustration Only

GRAIN CART HUB & SPINDLE ASSEMBLY

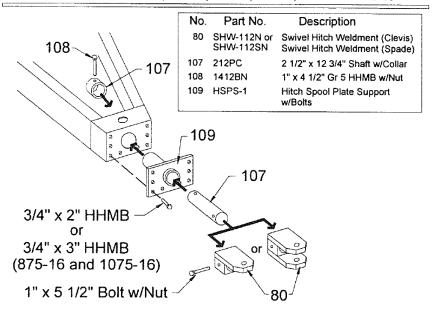


HYDRAULIC CYLINDER REPAIR PARTS



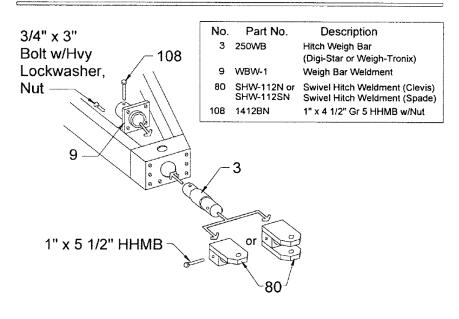
Bolt On Hitch System for J&M Grain Cart

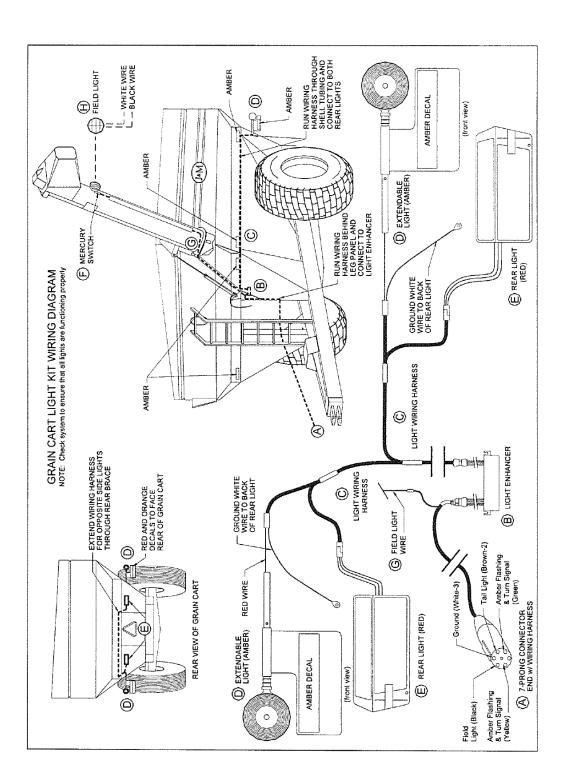
For Models 525-14W, 620-14, 750-14, 750-16, 875-16 & 1075-16



Bolt On Hitch System for J&M Electronic Scale Cart

For Models 525-14W, 620-14, 750-14, 750-16, 875-16 & 1075-16





PARTS LIST

								Transfer Parties														*****																
	Description	Wheel Rim	Hub	Large Bearing	Small Bearing	Large Race	Small Race	Seal	Spindle Washer	Slotted Spindle Nut	Cotter Pin	Dust Cap	Wheel Studs	Wheel Nuts	Spindle	Hub, Spindle Assy.	complete	Gearbox	Gear	Bushing (1/2" to 1/4")	Casting Mod	Inspection Plug	End Cap	Bearing Cup	Bearing Cone	Output Shaft	Solid Plug	Vented Plug	Input Shaft	Gear	Bolt	Seal	Spline Coupler	Upper Flighting	Lower Flighting	U-Joint	PTO Shaft Complete (1 3/8")	PTO Shaft Complete (1 3/4")
1075-16	Part#	31 x 32 - 10	H25000	71455	663	71750	653	CR55179	EM-25M	SF-2512	3754	D-25000	750-35	913571	628	HSA-1075		H51AES	H51S19	4003V8	H00001-1	200300	400301	414276	514137	H00111-02	400300	2003PR	H00111-01	H51S28	438225	513569	SC-2X2716	UF-16-F6R	LF-16-F5R	M-6635-A	91-1400-138	91-1400-134
875-16	Part#	27 x 32 - 10	W-881	4T-HM218248	HM212049	910344	910384	CR-43771	913635	912973	905945	909921	913564	913571	281900CR	HSA-650CR		H51AES	H51S19	400378	H00001-1	200300	400301	414276	514137	H00111-02	400300	2003PH	H00111-01	H51S28	438225	513569	SC-2X2716	UF-16-F6R	LF-16-F5R	M-6635-A	91-1400-138	91-1400-134
750-16	Part #	21 x 32 - 10	W-881	4T-HM218248	HM212049	910344	910384	CR-43771	913635	912973	905945	909921	913564	913571	281900	HSA-650		H51AES	H51S19	400378	H00001-1	200300	400301	414276	514137	H00111-02	400300	2003PR	H00111-01	H51S28	438225	513569	SC-2X2716	UF-16-F6R	LF-16-F5R	M-6635-A	91-1400-138	91-1400-134
750-14	Part #	21 x 32 - 10	W-881	4T-HM218248	HM212049	910344	910384	CR-43771	913635	912973	905945	909921	913564	913571	281900	HSA-650		H51AES	H51S19	4003V8	H00001-1	200300	400301	414276	514137	H00111-02	400300	2003PR	H00111-01	H51S28	438225	513569	SC-2X2716	UF-14-F6R	LF-14-F5H	M-6635-A	91-1400-138	91-1400-134
620-14	Part #	21 x 32 - 10	W-881	4T-HM218248	HM212049	910344	910384	CR-43771	913635	912973	905945	909921	913564	913571	281900	HSA-650		H51AES	H51S19	4003V8	H00001-1	200300	400301	414276	514137	H00111-02	400300	2003PR	H00111-01	H51S28	438225	513569	SC-2X2716	UF-14-F6R	LF-14-F5H	M-6635-A	91-1400-138	91-1400-134
525-14W	Part#	20 x 26 - 10	W-881	4T-HM218248	HM212049	910344	910384	CR-43771	913635	912973	905945	909921	913564	913571	281900	HSA-650		H51AES	H51S19	4003V8	H00001-1	200300	400301	414276	514137	H00111-02	400300	2003PR	H00111-01	H51S28	438225	513569	SC-2X2716	UF-14-F6R	LF-14-F5R	M-6635-A	91-1400-138	91-1400-134
	Ref. #	-	2	es.	4	r.	ဖ	~	∞ (<u>Б</u>	유	=	<u>~</u>	13	4	15		9	1	<u>ნ</u>	8	2	22	23	24	22	56	5/	28	8	9	က	32	93	34	32	36	

	}	1																																										
	Description	į.	Front Half of PTO (1 3/8")	Front Half of PTO (1 3/4")	Back Half of PTO		12 88 J	Lining	Complete Shield w/	Nylon Bearing/Retainer	Voka - Tuba	Course - COO	Spiritg-Los Toke	Yoke + Shaft	Jack Stand Assy.	1 1/4" Flange Bearing	Hydraulic Cylinder	Orifice Fitting (restricter)	Rubber Hose x 144"	Rubber Hose x 160"	Rubber Hose x 41"	Rubber Hose x 29"	Rubber Grommet	Coffer Pin	5/8" 1 ock Nit	5/8" x 4 1/2" HHMB	Half Moon Key	3/8" x 1/2" Set Screw	Bronze Bushina	Grease Fitting	Compression Spring	Plexiglass Window	Window Molding	Coupling	Steel Bushing	90 Degree Street Elbow	Grafe	Drive Shaft	Ladde Assembly	Tapered Top Extensions	Upper Auger Tube (housing)	Auger Gate Cover Assembly	Guard for Drive Shaff	Guard for PTO-Drive Shaft
1075-16	Part#			91-1400-F-134		00 20 40 E	1000	11-1116/	16281CS		94.15079	14100,101	7101-77-40	22-12/0	TWL-200	GRAF-206	JD20024	1404-062	14144	14160	3841	3829	26012	CP-316	2 Z	58412GR8	516114	SS-3812	EB-134	1610BL	CMSUAA-4	PGW-71212	62095-7	38BLCP	1238SBU	38SE90	SG-1075	DS-89	LA-63-F	TTE-1075	UAH-16	AGC-875	GDS-114-F	GPDS-114
875-16	Part #		91-1400-F-138	91-1400-F-134	91-1400-B	00.40404	100000	11-1116/	16281CS		98 15072	14199-1019	14 CC 10 C	22-1023	TWL-178T	GRAF-206	JD20024	1404-062	14144	14160	3841	3829	26012	CP-316	IN-58	58412GH8	516114	\$\$-3812	EB-134	1610BL	CMSUAA-4	PGW-71212	62095-7	38BLCP	1238SBU	38SE90	SG-875	08-89	LA-68-F	TTE-875	UAH-16	AGC-875	GDS-114-F	GPDS-114
750-16	Part #			91-1400-F-134	91-1400-B	00,40404	11000	/9111-11	16281CS		98-15972	14122,1012	14 Can 10 Can 10	9201-66	TWL-178T	GRAF-206	JD20024	1404-062	14144	14160	3841	3829	26012	CP-316	85-N	58412GR8	516114	SS-3812	EB-134	1610BL	CMSUAA-4	PGW-71212	62095-7	38BLCP	1238SBU	38SE90	SG-875	DS-89	LA-6S-F	TTE-750-16	UAH-16	AGC-875	GDS-114-F	GPDS-114
750-14	Part #	Action of the contract of the	91-1400-F-138	91-1400-F-134	91-1400-B	08.40494	100000	/011-11	16281CS		98-15972	14122-1012	7 25-10-16	19791-65	TWL-1781	GRAF-206	JD20024	1404-062	14144	14160	3841	3829	26012	CP-316	N-53	58412GR8	516114	\$5-3812	EB-134	1610BL	CMSUAA-4	PGW-71212	62095-7	38BLCP	1238SBU	38SE90	SG-675	DS-114F	LA-65-F	TTE-750	UAH-14-6	AGC-675	GDS-114-F	GPDS-114
620-14	Part #	The second of th	91-1400-F-138	91-1400-F-134	91-1400-B	03-10134	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	/0111-11	16281CS		98-15972	14122-1012	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	88-10701	IWL-1781	GRAF-206	JD20024	1404-062	14144	14160	3841	3829	26012	CP-316	LN-58	58412GR8	516114	SS-3812	EB-134	1610BL	CMSUAA-4	PGW-71212	62095-7	38BLCP	1238SBU	38SE90	SG-500-F	DS-114F	LA-6S-F	TTE-620	UAH-14-5	AGC-500-F	GDS-114-F	GPDS-114
525-14W	Part #		91-1400-F-138	91-1400-F-134	91-1400-B	03.10134	1000	/01 1-1	16281CS		98-15972	14122-1012	00 46004	22-10-53	IWL-1781	GRAF-206	JD20024	1404-062	14144	14160	3841	3829	26012	CP-316	LN-58	58412GR8	516114	SS-3812	EB-134	1610BL	CMSUAA-4	PGW-71212	62095-7	38BLCP	1238SBU	38SE90	SG-500-F	DS-114F	LA-6S-F	TTE-525	UAH-14-5	AGC-500-F	GDS-114-F	GPDS-114
	Ref. #	1	37		33	ç)	5	4		4	5.) ~	<u>†</u> ;	٠. ح	4	48	2	9	ŗ,	52	ත ස	ny A	27	28	29	90	6	63	65	99	67	98	69	70	<u></u>	72	73	74	75	76	77	78	79

																								A4114 ==-																	
	Description	Swivel Hitch Weldment (clevis)	Swivel Hitch Weldment (spade)	Gate Indicator	Clean-out Door &	Wheel Assy.	Hanger Bushing Assy.	Drive-Dog Weldment	Seal for Hydraulic Cylinder	75 Degree Grease Fitting	Grease Fitting	Light Kir (not installed)	Ball Joint Weldment	Spiola for 1 joint	Official Office of the Control of th	Green Fullifier Spoot Burbbar Hose v 20 1/2"	Check Valva	1/0" > 7 1/0" HIME W/ NE	Spacer	1 1/4" Hex Nut	Ex Pan Pin 1/4" x 1 3/4"	Pin in Hinge Assy.	1/2" Hvv. Washer	1/2" x 1 1/4" HHMB	1/2" Lock Washer	1" x 4" Pin	Tee	Shaft w/Collar	1" x 4 1/2" Bolt w/Nut	Hitch Spool Plate	Hyd. Cylinder, 2 1/2" x 24"		Indicator	Weigh Spindle	Hitch Weigh Bar	Junction Box	Power Cord	Extension Cord	Battery Box	Mount Bracket (indicator)	Weigh Bar Weldment
1075-16	Part#	SHW-112N	SHW-112SN	GI-12-6	CODW875		HBA-875	DDW-214	JD244	GF-75	D. L.O. L.O.	- X-X-	BJW-114		000.00	DH-142012	PC-37	MB-126	1128	HN-114	14134EX	134-PIH	12-HW	12114HB-5	LW-12	1CR4	5602-6-6	212PC	1412BN	HSPS-1	JD25024		615	55WS	25WB		PC-2	E	BB-2	MB1-2	WEW-1
875-16	Part #	SHW-112N	SHW-112SN	GI-12-6	CODW875		HBA-875	DDW-214	JD244	GE-75	GF-ST	- X-X-X-	BJW-114	110.06	מטייטטי	BH-142019	PC-37	MB-126	1128	1 Z Z	14134EX	134-PIH	12-I-W	12114HB-5	LW-12	1CR4	5602-6-6	212PC	1412BN	HSPS-1	JD25024		EZ-150L	375WS	250WB	JB-1	PC-1	FC-7-	BB-2	MB1-1	WEW-1
750-16	Part #	SHW-112N	SHW-112SN	GI-12-6	CODW875		HBA-875	DDW-214	JD244	GF-75	GF-ST	-K-N-F	BJW-114	11U 36	מיקיים מיקיים	GF 3-72 BH-142012	00,37	MB-126	1125	HN-114	14134EX	134-PIH	12-HW	12114HB-5	LW-12	1CR4	5602-6-6	212PC	1412BN	HSPS-1	JD25024	arts for Electronic Weigh Carts	EZ-150L	375WS	250WB	18-1	PC-1	EC1-1	BB-2	MB1-1	WBW-1
750-14	Part #	SHW-112N	SHW-112SN	GI-12-6	CODW675		HBA-675	DDW-214	JD244	GF-75	GE-STI	- X-X	BJW-114	110000	20-02-0	BH-142012	DC.37	MB.106	1125	HN-114	14134EX	114-PIH	12-HW	12114HB-5	LW-12	1CR4	5602-6-6	212PC	1412BN	HSPS-1	JD25024	Parts for Electron	EZ-150L	375WS	250WB	-B-1	PC-1	EC1-1	BB-2	MB1-1	WBW-1
620-14	Part #	NC1-12N	SHW-112SN	GI-12	CODW500		HBA-500-F	DDW-214	JD244	GF-75	SF.ST	- X	BJW-114	1110.00	20-00	SF3-1 RH-142012	75,70	MB-108	1125	HN-114	14134EX	114-PIH	12-HW	12114HB-5	LW-12	1CR4	5602-6-6	212PC	1412BN	HSPS-1	JD25024		EZ-150L	375WS	250WB	<u>-8</u>	PC-1	EC1-1	BB-2	MB1-1	WBW-1
525-14W	Part #	SHW-112	SHW-112S	GI-12	CODW500		HBA-500-F	DDW-214	JD244	GF-75	17.75	2 X	BJW-114		20-00	OF 0-1	DC_37	MB-106	1125	HN-114	14134EX	114-PIH	12-HW	12114HB-5	LW-12	1CR4	5602-6-6	212PC	1412BN	HSPS-1	JD25024		EZ-150L	375WS	250WB	-B-1	PC-1	EC1-1	BB-2	MB1-1	WBW-1

Ref.#

85 85 90 90 91