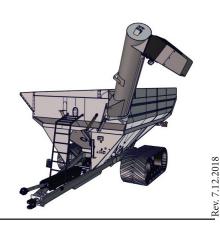
GRAIN CART

OPERATORS MANUAL



1130-20 1131-22 1250-20 1250-22 1251-22 1500-20 1501-22



J. & M. Mfg. Co., Inc. 284 Railroad Street - P.O. Box 547 Fort Recovery, OH 45846 Ph: (419) 375-2376 Fax: (419) 375-2708 www.jm-inc.com

To The Dealer

Read manual instructions and safety rules. Make sure all items on the Dealer's Pre-Delivery and Delivery Check Lists are completed before releasing equipment to the owner.

The dealer must complete the Warranty Registration found on the Dealer Portal website located at dealer.jm-inc.com and return it to J. & M. Mfg. Co., Inc. at the address indicated on the form. Warranty claims will be denied if the Warranty Registration has not been submitted.

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.

Warranty service must be performed by a dealer or service center authorized by J. & M. Mfg. Co., Inc. to sell and/or service the type of product involved, which will use only new or remanufactured parts or components furnished by J. & M. Mfg. Co., Inc. Warranty service will be performed without charge to the purchaser for parts or labor based on the Warranty Labor Times schedule. Under no circumstance will allowable labor times extend beyond the maximum hours indicated in the Warranty Labor Times schedule for each warranty procedure. The purchaser will be responsible, however, for any service call and/or transportation of the product to and from the dealer or service center's place of business, for any premium charged for overtime labor requested by the purchaser, and for any service and/or maintenance not directly related to any defect covered under the warranty. Costs associated with equipment rental, product down time, or product disposal are not warrantable and will not be accepted under any circumstance.

Each warranty term begins on the date of product delivery to the purchaser. Under no circumstance will warranty be approved unless (i) the product warranty registration card (attached to the inside of the Operator's Manual) has been properly completed and submitted to the equipment manufacturer, and (ii) a warranty authorization number has been issued by the equipment manufacturer. This Warranty is effective only if the warranty registration card is returned within 30 days of purchase.

This warranty does not cover a component which fails, 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 or tear. This warranty does not cover products that are previously owned and extends solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this implied, with respect to tires or other parts or accessories not manufactured by J. & M. Mfg. Co., Inc. Warranties for these items, if any, are provided separately by their respective manufacturers.

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. The exclusive remedy under this Warranty shall be repair or replacement of the defective component at J. & M. Mfg. Co., Inc's. 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.

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.

SERVICE:

The equipment you have purchased has been carefully manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and maintenance. Lubricate the unit as specified. Observe all safety information in this manual and safety signs on the equipment.

For service, your authorized J. & M. dealer has trained mechanics, genuine J. & M. service parts, and the necessary tools and equipment to handle all your needs.

Use only genuine J. & M. service parts. Substitute parts may void warranty and may not meet standards required for safe and satisfactory operation. Record the model number and serial number of your equipment in the spaces provided:

Model No:	Serial No:	Date of Purchase:
Purchased From:		

General Information

TO THE OWNER:

The purpose of this manual is to assist you in operating and maintaining your grain cart in a safe manner. Read it carefully. It furnishes information and instructions that will help you achieve years of dependable performance and help maintain safe operating conditions. 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 this machine.

Throughout this manual, the term IMPORTANT is used to indicate that failure to observe can cause damage to equipment. The terms CAUTION, WARNING and DANGER are used in conjunction with the Safety-Alert Symbol (a triangle with an exclamation mark) to indicate the degree of hazard for items of personal safety. When you see this symbol, carefully read the message that follows and be alert to the possibility of personal injury or death.

⚠ This Safety-Alert symbol indicates a hazard and means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

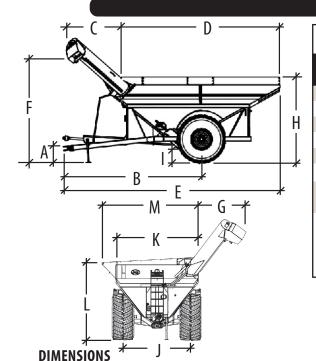
⚠ DANGER Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

⚠ CAUTION Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

IMPORTANT Indicates that failure to observe can cause damage to equipment.

NOTE Indicates helpful information.

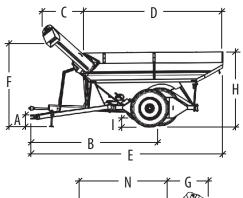
Specifications

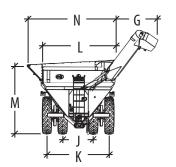


SPECIFICATIONS	SINGLE V	WHEEL FLOTATION T	IRES
	1130 (20" Auger)	1250 (20" Auger)	1500 (20" Auger)
	1131 (22" Auger)	1251 (22″ Auger)	1501 (20" Auger)
Capacity	1,130 Bushels	1,250 Bushels	1,500 Bushels
Auger, One Vertical	20" or 22" Diameter	20" or 22" Diameter	20" or 22" Diameter
Unload Time	2.2 or 1.9 minutes	2.5 or 2.1 minutes	3.0 or 2.5 minutes
Wheels	27x32HD or 44x32	44x32	44x32
Hubs	10 Bolt or 20 Bolt	10 Bolt or 20 Bolt	10 Bolt or 20 Bolt
Spindles	6" Diameter	6" Diameter	6" Diameter
Tires	900/60R32 (LI185), 76x50.00 or 1250/50R32	76x50.00 or 1250/50R32	1250/50R32
Tongue Weight			
Empty	2,900 lbs.	2,900 lbs.	2,900 lbs.
Loaded	4,200 lbs.	4,200 lbs.	4,200 lbs.
Total Weight (approx.)	14,600 lbs.	14,800 lbs.	15,900 lbs.

Model	A	В	C	D	E	F	G	Н	- 1	J	K	L	M
1130	1'-6"	18'-10"	8'-6"	22'-0"	29'-7"	13'-9"	7′-3″	12'-0"	1′-5″	9'-6"	11'-9"	10'-11"	13'-9"
1131										10'-0"			
1250	1′-6″	18'-10"	8'-6"	22'-0"	29'-7"	13'-9"	7′-3″	12'-2"	1′-5″	9'-6"	11'-9"	11'-7"	13'-9"
1251										10'-0"			
1500	1′-6″	18'-10"	8'-6"	22'-0"	29'-7"	13'-9"	7′-3″	12'-2"	1′-5″	9'-6"	11'-9"	11'-7"	13'-9"
1501										10'-0"			

Specifications

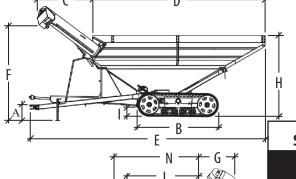


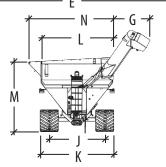


SPECIFICATIONS	WALKING TAND	EM DUALS
	1130 (20″ Auger) 1131 (22″ Auger)	1250 (20" Auger) 1251 (22" Auger)
Capacity	1,105 Bushels	1,225 Bushels
Auger, One Vertical	20" or 22" Diameter	20" or 22" Diameter
Unload Time	2.2 or 1.8 minutes	2.5 or 2.1 minutes
Wheels	16x42, 18 x 38, 18x42	18x42 Heavy
Tires	480/80R42, 520/85R38,	520/85R42
	or 520/85R42	
Tongue Weight		
Empty	2,900 lbs.	2,900 lbs.
Loaded	4,200 lbs.	4,200 lbs.
Total Weight (approx.)	17,600 lbs.	17,800 lbs.

DIMENSIONS

Model	Α	В	C	D	E	F	G	Н	- 1	J	K	L	M	N
1130	1′-6″	18'-10"	8'-6"	22'-0"	29'-7"	13'-9"	7′-3″	12'-0"	1′-5″	5'-0"	10'-0"	11'-9"	10'-11"	13'-9"
1131										6'-0"	12'-0"			
1250	1′-6″	18'-10"	8'-6"	22'-0"	29'-7"	13'-9"	7′-3″	12'-2"	1′-5″	5'-0"	10'-0"	11'-9"	11'-7"	13'-9"
1251										6'-0"	12'-0"			





SPECIFICATIONS	STORM	TRACKER TRACK SYS	TEM
	1130 (20" Auger)	1250 (20" Auger)	1500 (20" Auger)
	1131 (22″ Auger)	1251 (22″ Auger)	1501 (20" Auger)
Capacity	1,130 Bushels	1,250 Bushels	1,500 Bushels
Auger, One Vertical	20" or 22" Diameter	20" or 22" Diameter	20" or 22" Diameter
Unload Time	2.2 or 1.9 minutes	2.5 or 2.1 minutes	3.0 or 2.5 minutes
Tongue Weight			
Empty	2,900 lbs.	2,900 lbs.	2,900 lbs.
Loaded	4,200 lbs.	4,200 lbs.	4,200 lbs.
Total Weight (approx.)	22,800 lbs.	23,200 lbs.	24,300 lbs.
Compaction Rate			
(Ground Pressure)	10.83 lbs/sq inch	11.96 lbs/sq inch	13.69 lbs/sq inch

DIMENSIONS

Model	Α	В	C	D	E	F	G	Н	- 1	J	K	L	М	N
1130	1′-6″	12'-2"	8'-6"	22'-0"	29'-7"	13'-9"	7′-3″	12'-0"	1′-5″	9'-0"	12'-0"	11'-9"	10'-11"	13′-9″
1131														
1250	1′-6″	12'-2"	8'-6"	22'-0"	29'-7"	13'-9"	7′-3″	12'-2"	1′-5″	9'-0"	12'-0"	11'-9"	11'-7"	13′-9″
1251														
1500	1′-6″	12'-2"	8'-6"	25'-6"	34'-5"	13'-9"	7′-3″	12'-2"	1′-5″	9'-0"	12'-0"	11'-9"	11'-4"	13′-9″
1501														

General Information

BOLT TORQUE CHART

Always tighten hardware to these values unless a different torque or tightening procedure is listed for specific application.

Fasteners must always be replaced with the same grade as specified in the manual parts list.

Always use the proper tool for tightening hardware: SAE for SAE hardware and Metric for Metric hardware.

Make sure fastener threads are clean and you start thread engagement properly.

All torque values are given to specifications used on hardware defined by SAE J1701 & J1701M (JUL 96)

	TORQUE CHART	SAE Grade 2 (No Dashes)	Identification SAE Grade 5 3 Radial Dashes	SAE Grade 8 6 Radial Dashes
<u> </u>	SAE SERIES		SAE Bolt Head	

A	\\/			MARKING C	MARKING ON HEAD				
Diameter	Wrench Size	SA	E 2	SA	Æ 5	SAE 8			
(Inches)		LBSFT.	N-m	LBSFT.	N-m	LBSFT.	N-m		
1/4	7/16"	6	8	10	13	14	18		
5/16	1/2"	12	17	19	26	27	37		
3/8	9/16"	23	31	35	47	49	67		
7/16	5/8"	36	48	55	75	78	106		
1/2	3/4"	55	75	85	115	120	163		
9/16	13/16"	78	106	121	164	171	232		
5/8	15/16"	110	149	170	230	240	325		
3/4	1-1/8"	192	261	297	403	420	569		
7/8	1-5/16"	306	416	474	642	669	907		
1	1-1/2"	467	634	722	979	1020	1383		

п <u>↓</u>	METRIC SERIES			
	TORQUE	$\langle 8.8 \rangle$	Metric Bolt Head Identification	$\langle 10.9 \rangle$
□	CHART	Metric Grade 8.8		Metric Grade 10.9
		Grade 0.0		Grade 10.5

Diameter			COARSE	THREAD				Diameter		
& (Millimeters)	Wrench	MARKING ON THREAD						& (Millimeters)		
Thread Pitch	Size	Metr	ic 8.8	Metri	c 10.9	Metr	ic 8.8	Metri	c 10.9	Thread Pitch
6 x 1.0	10 mm	8	6	11	8	8	6	11	8	6 x 1.0
8 x 1.25	13 mm	20	15	27	20	21	16	29	22	8 x 1.0
10 x 1.5	16 mm	39	29	54	40	41	30	57	42	10 x 1.25
12.1.75	18 mm	68	50	94	70	75	55	103	76	12.1.25
14 x 2.0	21 mm	109	80	151	111	118	87	163	120	14 x 1.5
16 x 2.0	24 mm	169	125	234	173	181	133	250	184	16 x 1.5
18 x 2.5	27 mm	234	172	323	239	263	194	363	268	18 x 1.5
20 x 2.5	30 mm	330	244	457	337	367	270	507	374	20 x 1.5
22 x 2.5	34 mm	451	332	623	460	495	365	684	505	22 x 1.5
24 x 3.0	36 mm	571	421	790	583	623	459	861	635	24 x 2.0
30 x 3.0	46 mm	1175	867	1626	1199	1258	928	1740	1283	30 x 2.0

TIGHTENING WHEEL NUTS

Standard 3/4" wheel studs and nuts should be tightened to torque 500 Ft.-Lbs. During initial operation of the grain cart and then checked for proper torque after every 10 hours of use. Failure to do so may damage wheel nut seats. Once seats are damaged, it will become impossible to keep nuts tight. Standard 22mm studs with 900/60R32 tires should be tightened to torque 600 Ft.-Lbs.

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Safety Rules



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be erased by an operator's single careless act. In addition, hazard control and accident prevention are dependent upon the awareness, concern, judgment, and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

Make certain that the operator(s), prior to operating is instructed in safe and proper use and reviews and understands the manual(s) pertaining to this machine. Also make certain that the operator(s) reviews and understands the operator's manual of the tractor prior to hooking up or operating the grain cart.

Read this manual before you operate this machine. If you do not understand any part of this manual, or need more information, contact the manufacturer or your authorized dealer.

SAFETY

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 speeds 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 the grain cart, always keep the auger in the stow position.

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

Never adjust, service, clean, or lubricate the grain cart until all power is shut off. Keep all safety shields in place. Keep hands, feet, hair and clothing away from moving parts while the grain cart is in operation.

The service ladder is for service work only. If you must climb into the grain tank, be certain that all power is shut off and then use extreme caution when climbing into the 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. Make sure that the grain cart hitch properly matches the hitch type of the tractor. Use a single prong (spade) grain cart hitch with a double prong (clevis) tractor hitch. Use a double prong (clevis) grain cart hitch with a single prong (spade) tractor hitch.

Before filling the grain cart, make certain that no one is inside the grain tank. Never 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.

Never operate the auger system with anyone inside 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.

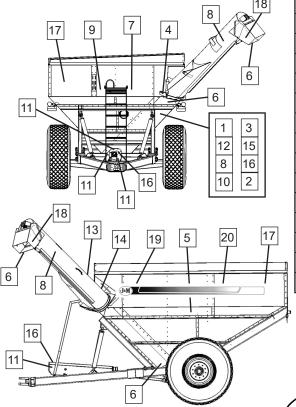
Before unhooking the grain cart from the tractor, be sure the jack stand is properly mounted and in place and the wheels are properly blocked to prevent the cart from moving.

Safety Rules

▲ ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! ▲

Replace Immediately If Damaged or Missing

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 the manufacturer or your authorized dealer.



FOR FARM USE ONLY

ENG-112

#SAFETH #ECAL SDescription		
1	JM0018044	Operating Instructions
2	JM0010163	Warning, High Pressure
3	JM0014979	Warning, General
4	JM0018039	Warning, Keep Hands Away
5	JM0010150	Warning, Lug Nuts
6	JM0018035	Danger, Keep Hands Away
7	JM0018034	Danger, Keep Off Ladder
8	JM0015099	Danger, Electric Lines
9	JM0018033	Danger, Do Not Enter Tank
10	JM0018037	Danger, Suffocation
11	JM0018036	Danger, Rotating Driveline
12	JM0018038	Farm Use Only
13	JM0025433	Open
14	JM0025434	Closed
15	JM0025435	Check PTO Overlap
16	JM0018043	Warning, Check Lug Nuts
17	JM0015151	J&M Oval Decal, Large
18	JM0010179	J&M Oval Decal, Medium
19	Specify	OAS Black Fade Stripe
20	Specify	AS Black Fade Stripe

IMPORTANT

OPERATING INSTRUCTIONS

- 1) With the gate indicator in the closed position, fill the box with grain
- 2) With the PTO disengaged, fold the discharge auger to the upright pos
- 3) After the auger is in the upright position, start the PTO at a SLOW RATE OF SPEED until the pin on the upper auger engages the drive dog on the bottom auger (eitharts to follow this procedure may cause extensive damage to both the drive dog and the pin).
- Increase PTO to the maximum r.p.m. speed and slowly open the inr gate until the pointer is in the halfway position. When grain begins flowing from the discharge auger, adjust the gate to control the rate of flow (Do not slow the speed of the PTO).
- 5) To stop unloading, FIRST return the inner gate to the closed position. For complete clean-out, gradually close the gate. Allow the unloading auger to clean-out before disengaging the PTO. Disengage the PTO and allow the auger to come to a complete stop. Fold the upper auger to the

ENG-101







HIGH PRESSURE FLUID HAZARD

- To prevent serious injury or death:
- Wear proper hand and eye protection searching for leaks. Use wood or call instead of hands.
- · Keep all components in good repair.

ENG-102

WARNING

- DO NOT ADJUST, SERVICE, CLEAN OR LUBRICATE THE MACHINE UNTIL ALL POWER IS SHUT OFF.
- KEEP ALL SAFETY SHIELDS IN PLACE.
- KEEP PEOPLE AND OBJECTS CLEAR OF EQUIPMENT BEFORE APPLYING POWER OR MOVING THE MACHINE.
- PREVENT PEOPLE FROM RIDING ON THE MACHINE. FALLING CAN CAUSE SERIOUS INJURY OR DEATH.
- BEFORE HIGHWAY TRAVEL, SECURE A SLOW-MOVIN VEHICLE EMBLEM TO THE REAR OF THE MACHINE. MAKE SURE ALL FLASHER, TURN INDICATOR AND BRAKE LIGHTS ARE WORKING PROPERLY BEFORE HIGHWAY TRAVEL.

ENG-103





OPEN

CLOSED

ENG-113

ENG-114



CHECK PTO OVERLAP

CHECK MANUAL FOR PTO LENGTH. INCORRECT PTO OVERLAP MAY CAUSE EXTENSIVE DAMAGE TO DRIVE SYSTEM.

ENG-115

WARNING

KEEP HANDS, FEET, HAIR AND CLOTHING AWAY FROM MOVING PARTS

ENG-104

CHECK ALL WHEEL NUTS

DEALER OR MANUFACTURER IS NOT RESPONSIBLE FOR DAMAGE CAUSED BY LOOSE WHEEL NUTS.

ENG-116

WARNING

KEEP LUG NUTS TIGHTENED

ENG-105



DANGER AUGER IS RUNNING.

ENG-109

ENG-111

ROTATING DRIVELINE CONTACT CAN CAUSE DEATH.

KEEP AWAY!







ENG-108 ENG-107

Initial Operation and Maintenance

WARNING

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

Before the grain cart is put into service:

Have the safety instructions been read and clearly understood by the operator(s) of this machine?

Has the gearbox been properly filled with EP-80-90 gearbox lubricant?

Have all nuts, bolts, bearings and braces been properly fastened?

Has the PTO been checked for proper overlap?

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

CHECK PTO OVERLAP LENGTH. Overlap length may vary depending on the tractor model and hitch setting. Try to obtain the greatest possible overlap without bottoming out in the extreme operating conditions. Too much overlap may cause the PTO to bottom out and damage the driveline. Not enough overlap may cause the PTO front and back halves to separate. From the fully compressed (shortest) length the PTO should be telescoped (extended) between 10" and 22". Different PTO lengths may need to be purchased to accommodate your terrain. A 4" shorter or a 10" longer PTO can be ordered through your dealer from J&M Manufacturing.

GREASE BEARINGS: Are all bearings on the drive line properly greased? Are all set screws in the bearings and U-joints tight? Has the power-take-off shaft been properly greased at all points including the cross bearings? Has the universal joint at the gearbox been greased? Have all grease points at the auger hinge area, including the hanger bushing assembly been greased?

TIRE PRESSURE: Are the tires properly inflated? The following is to be used as a general guide for tire inflation for cyclic use. Figures can vary depending on specific brand of tire used. It is important that tires are inspected before and after the unit is loaded. The tire should stand up with no side wall buckling or distress as the tire rolls. Do Not Exceed The Tire Pressure Indicated Below:

Tire Size	Pressure (PSI)
480/80R42 Lug Tire, 12 ply (for 16x42-10 wheel)	35
480/80R46 Lug Tire, 12 ply (for 16x46-10 wheel)	41
520/85R38 Lug Tire, 154 LI (for 18x38-10-8.7 and 18x38-10 wheels)	28
520/85R42 Lug Tire, 162 LI (for 18x42-10 wheel)	47
23.1x26 Lug Tire, 12 ply (for 20x26-10 and 20x26-10L wheels)	26
23.1x26 Diamond Tire, 12 ply (for 20x26-10 and 20x26-10L wheels)	30
24.5x32 Lug Tire, 12 ply (for 21x32-10-8.7 and 21x32-10 wheels)	30
24.5x32 Diamond Tire, 12 ply (for 21x32-10-8.7 and 21x32-10 wheels)	30
24.5x32 Diamond Tire, 16 ply (for 21x32-10HD heavy duty wheel)	36
30.5x32 Lug Tire, 12 ply (for 27x32-10 wheel)	26
30.5x32 Diamond Tire, 14 ply (for 27x32-10 wheel)	28
35.5x32 Diamond Tire, 20 ply (for 31x32-10 3-piece wheel)	34
900/60R32 Lug Tire, 176 LI (for 27x32-10HD heavy duty or 31x32-1P-10 one piece wheel)	41
900/60R32 Lug Tire, 185 LI (for 27x32-10HD heavy duty or 31x32-1P-10 one piece wheel)	35-43
66x43.00 Lug Tire, 16 ply (for 25x36-10 wheel)	46
73x44.00 Lug Tire, 16 ply (for 32x36-10 wheel)	46
76x50.00 Lug Tire, 20 ply (for 44x32-10 wheel)	51
1250/50R32	46

Operating Instructions

WHEEL NUTS: Are the wheel nuts properly fastened? Torque to 600 Lbs.-Ft. for standard 22mm wheel studs and nuts. Torque to 500 Lbs.-Ft. for 3/4" wheel studs and nuts. Wheel studs and nuts should be checked after each load during initial operation of the cart and then after every 10 hours of use. Failure to do so may damage wheel studs and nuts. Once the seats are damaged, it will become impossible to keep the lug nuts tight.

The drawing shows the proper way to mount the wheels using Budd-type nuts. The wheels supplied with your grain cart have straight holes and the Budd nuts will be mounted according to Figure 1. 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. We recommend you inspect your wheel nuts to make sure they are properly installed. Also, check the wheel nuts on a regular basis to ensure they are tight.



LIGHTING AND SAFETY DECALS: Are the rear, amber extremity lights properly positioned? Extend the lights within 16" (40,6cm) of the left and right extremities of the grain cart. Is an SMV Emblem attached to the rear of the grain cart?

Are the lights working properly? Are all lights and reflective decals clean, visible and properly placed?

MARNING

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

Preparing the Grain Cart for Use: Models 1130 requires a 225+ hp tractor or larger. Models 1250 and 1500 require a 250+ hp tractor or larger.

IMPORTANT: Do NOT pull a loaded grain cart on highway. For incidental highway travel, observe the section below. Tow Loads Safely

Stopping distance increases with speed and weight of towed loads and on slopes. Towed loads with or without brakes that are too heavy for the tractor or are towed too fast, can cause loss of control. Consider the total weight of the equipment and its load.

Observe these recommended maximum road speeds, or local speed limits, which may be lower.

Road Travel (grain cart empty): Do not travel more than 32 km/hr (20 mph) and do not tow loads more than 1.5 times the pulling unit's weight.

Ensure the load does not exceed the recommended weight ratio. Use additional caution when towing loads under adverse conditions, when turning, and on inclines.

WARNING: For greater stability on uneven or steep terrain, position non-scale wheel spindles at the furthest out setting.

IMPORTANT:

1) Connect grain cart hitch to tractor drawbar using a good quality hitch pin. Attach the safety chain to the tractor and around the A-frame of the cart as shown. Make sure the grain cart hitch properly matches the hitch of the tractor. Use a single prong (spade) grain cart hitch with a tractor double prong (clevis) hitch. Use a double prong (clevis) grain cart hitch with a single prong (spade) tractor hitch.

Safety Chain User Instruction

- a) Secure the safety chain by looping it around the each side of the grain cart as shown and connecting to the towing machine's attaching bar.
- b) Do Not allow any more slack than necessary for articulation (maximum 11 inches)
- c) Do Not use any intermediate support as the attaching point.
- d) Store the safety chain by securing it around the main axle A-frame of the grain cart.
- e) Replace the safety chain if one or more links or end fittings are broken, stretched or otherwise damaged or deformed.
- 2) Attach the power-take-off shaft to the tractor. The PTO must have at least 10" of engagement. Check tractor drawbar for clearance and length and adjust if necessary. **Make sure the PTO does not bottom out when making sharp turns as it may bend the drive shaft.**
- 3) Make sure the jack stand is removed from the lower support position before the cart is moved. Never use the jack to support a loaded grain cart. 10

Operating Instructions (Continued)

- 4) Be sure that no debris or foreign objects are in the grain cart.
- 5) Attach the hydraulic lines to the tractor. Two hydraulic lines (green band) operate the inside gate mechanism. Connect these lines to one service outlet on the tractor. Two hydraulic lines (yellow band) operate the folding mechanism of the auger. Connect these lines to a second service outlet on the tractor. The remaining two hydraulic lines (red ban) operate the hydraulic flow control spout located at the end of the upper auger. Connect these lines to a third service outlet on the tractor. Make sure the air is bled from the hydraulic cylinders and hoses.
- 6) Run the auger system EMPTY before loading grain into the tank for actual use. Make certain that the slip clutch is operating and that the upper and lower augers are properly engaged.
- 7) Connect the lighting 7-prong connector end on the main wiring harness to the tractor electrical outlet. Make sure that all flasher and turn indicator lights are working properly before incidental highway travel.

CAUTION

- Do NOT operate the 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 PTO and driveline system.
- Never fold or extend the auger until the PTO has come to a complete stop.
- Never fill the grain cart unless the gate indicator is in the closed position.
- · Never allow foreign objects (shovels, etc.) to be placed inside the grain cart.
- Never engage the lugs and drive dogs on the augers when the system is moving at a high rate of speed.
- Never perform maintenance work or service the grain cart with the tractor running.

Loading and Unloading the Grain Cart

- 1) With the gate indicator in the closed position, fill the tank with grain.
- 2) With the PTO disengaged, fold the discharge auger to the upright position.
- 3) **IMPORTANT:** After the upper 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 engage the drive dog on the bottom auger. Failure to follow this procedure may cause extensive damage to both the drive dog and the drive line.
- 4) Increase the PTO speed and slowly open the inside tank gate until the gate indicator rod located above the upper auger is halfway between the Open and Closed position. When grain begins flowing from the discharge auger, continue to open the gate to obtain the desired unload rate.
- 5) To stop unloading grain, return the inside tank gate to the closed position and allow the material inside the auger to unload. For complete cleanout, gradually close the inside tank gate. Once the grain has ceased to flow, disengage the PTO and allow its rotation to come to a complete stop. The upper auger is now ready to be returned to the stow position. IMPORTANT: Do Not Pull the grain cart through the field with the unloading auger in the upright position. Failure to return the auger to the lowered stow position may damage the hinge and greatly reduce the life of the auger system.

Lubrication Service Schedule

IMPORTANT: Your grain cart has grease fittings at all critical points. These should be serviced before the grain cart is put into operation.

WARNING

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

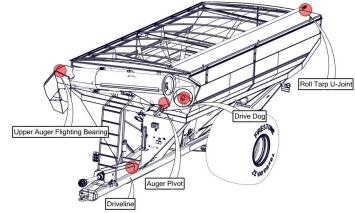
PTO & DRIVELINE: The grease fittings on the PTO should be serviced after every 8 hours of use. Service the grease fittings on each of the drive bearings and also the universal joint after every 8 hours of use.

AUGER FOLDING MECHANISM: 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 UPPER AUGER BEARING: Service the grease fitting on the upper auger bearing (located at the top end of the upper auger assembly) after every 8 hours of use. Lubricate the 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. Re-check the lubricant level before initial operation of the grain cart, then periodically according to use. An inspection plug is located in the center of the top of the gearbox mount plate. To check the fluid level, remove the vented inspection plug and drain plug at the bottom of the gearbox. Drain the lubricant. Return the drain plug and refill the gearbox with 24 ounces (0,71 liters) of gearbox lubricant. The gearbox is properly filled when half full of lubricant. DO NOT OVERFILL. Use EP 80-90 gearbox lubricant or equivalent.

Roll Tarp U-Joint	Once Annually
Upper Auger Flighting	Every 8hrs of use.
Auger Pivot	Every 8hrs of use.
Driveline	Every 8hrs of use.
Drive Dog	Every 8hrs of use.



Routine Maintenance

⚠ WARNING

BE CERTAIN ALL POWER IS SHUT OFF WHEN SERVICING THE GRAIN CART

- Re-pack the wheel bearings at least once a year. Use Bearing Gard MK1 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.
- · Lubricate the slides on the clean-out door.
- Check all hydraulic hoses for wear and replace as necessary.
- Make sure all tires are properly inflated. See INITIAL OPERATION AND MAINTENANCE in the Owner's Manual for recommended instructions for tire pressure. It is important that tires are inspected before and after unit is loaded.
- Check PTO for wear of plates in the slip clutch. Replace if needed.
- Make sure that all guards and shields are in place before operating the grain cart.
- Make sure wheel nuts are tight before operating the grain cart. Wheel Nuts should be checked during initial operation of the cart and after every 10 hours of use.
- Make sure set screws are tight in bearings along drive line and in U-joints.

Trouble Shooting

MARNING

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	Possible Cause	Possible Remedy
Auger will not return to down position or move from stow position.	Dirt In Restrictor (see pg. 14)	Remove restrictor fittings from outside hydraulic cylinder and clean out dirt
	Faulty Check Valve	Replace Check Valve
	Upper flighting and lower flighting are locked together (see pg. 14)	Bearing on top of upper auger flighting need adjusting. When the auger is in the engaged position, there must be 1/8" (0,32cm) gap between bottom of top bearing and top of upper tube housing (SEE ADJUSTING THE UPPER AUGER FLIGHTING)
Hanger Bushing Assembly at the top of the lower auger flighting is hot	Top of the hanger bushing assembly is rubbing against the drive dog (See pg.13)	Loosen the two bolts and re-adjust the position of the hanger bushing assembly. Re-tighten bolts.
		Remove the lower flighting assembly and place a shim between the spline coupler and the gearbox.
Excessive Vibration	Auger flighting or shaft is bent	Straighten or replace auger flighting
	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 dogs and lugs are being engaged too fast.)
	Folding auger before complete stop	Upper and lower flightings are disengaging before auger comes to a complete stop. Replace bolt in the drive dog. Never engage or disengage the upper and lower flightings until the augers come to a complete stop.
	PTO key sheared	Replace key and tighten set screw.
Auger tube is breaking away from the grain cart at the hinge area or the ram in the hydraulic folding cylinder is bent	Upper auger is extended in the upright position while traveling in the field	Repair or replace folding cylinder if necessary. Remember to lower auger to the field position after unloading.
	13	

Adjusting the Lower Flighting and Hanger Bushing Assembly

↑ WARNING

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

If the drive-dog and hanger 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 vertically center it between the flighting and drive dog. Re-tighten the bolts. Make certain that the flighting center and drive-dogs do 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. See instructions on pg. 36 for flighting removal. After removing them from the tube assembly, place a shim [between 1/8" (0,32cm) to 3/16" (0,48cm) thick] where the gearbox and the spline coupler (welded to the lower flighting). 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 'frozen' 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, move the upper auger to the unload position and check the upper flighting for readjustment.

Adjusting the Upper Flighting



MAKE SURE ALL POWER IS SHUT OFF BEFORE ADJUSTING THE FLIGHTING ASSEMBLY

If the upper and lower augers to do not properly separate during the unfolding sequence, the upper flighting may need adjusting. Before making adjustment to the upper flighting, check to see if the lugs and drive dogs on the auger assemblies are locking together. If they are not locked together, check to see if dirt is in the restrictor or if a faulty check valve on the hydraulic cylinder used to raise and lower the upper auger assembly may be causing the problem. If dirt is in the restrictor, see "Removing Dirt From Restrictors On Hydraulic Cylinders" below.

Fold the upper tube assembly into the upright position. Position the upper flighting in the engaged position with the lower flighting. Locate the four-hole flange bearing on the top of the upper auger 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 an 1/8" (0,32cm) space between the base of the four-hole flange bearing and the upper tube housing. If there is NOT a space between the bearing and the upper tube housing, or if there is more than 1/8" (0,32cm) space, the upper flighting will need to be adjusted. To adjust the upper flighting, loosen the 1 1/4" hex nuts both above and below the four-hole flange bearing. Move the 1 1/4" hex nuts up or down the threaded shaft on the top of the auger flighting shaft until the bearing moves to approximately 1/8" (0,32cm) above the base of the upper tube housing. When the four-hole flange bearing is properly located, tighten both 1 1/4" hex nuts together to secure the bearing position.

If the upper and lower flighting still does not separate properly during the folding sequence, a small bevel may need to be removed from the inside of the lugs where they engage the drive dogs on the auger assemblies. Grind approximately 1/8" (0,32cm) from the corner of the lugs where they touch against the drive dogs.

Removing Dirt From The Restrictors On The Hydraulic Cylinder

WARNING

MAKE SURE THAT ALL POWER IS SHUT OFF AND THE UPPER AUGER TUBE IS IN THE DOWN POSITION BEFORE REMOVING THE RESTRICTORS

Remove restrictors from the 90 degree street elbow on the hydraulic cylinder. Remove dirt from the fitting to allow hydraulic oil to flow through the restrictor. Reattach the restrictor to the street elbow. Use teflon sealant tape or equivalent on the threads of the restrictor before reattaching.

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

Storage Preparation

IMPORTANT: When the grain cart is not going to be used for a period of time, store the cart in a dry, protected place. Leaving your grain cart outside, open to the weather will shorten it's 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.
- 2. Remove all grain from inside the grain tank, auger tube assemblies, and at the clean-out door.
- 3. Check the gearbox oil and replace with new EP 80-90 gearbox lubricant or equivalent if necessary.
- 4. Touch up areas where paint may have worn away. Use a good quality primer paint, especially before re-applying graphite paint to the interior slopes 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

- Check the gearbox to make sure it has the appropriate amount of oil.
- If equipped with an electronic scale system, check the battery and make sure that it is fully charged. Reconnect the negative (-) cable.
- Inflate the tires to the correct operating pressure.
- Close the clean out door at the base of the grain tank.
- Make sure all safety shields are in the proper position.

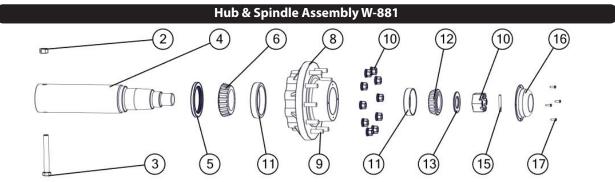
Repair Parts List and Diagrams

When performing maintenance work, wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing and head. Follow the Operator's Manual instructions to ensure safe and proper maintenance and repair.

Your local, authorized dealer can supply genuine replacement parts. Substitute parts may not meet original equipment specifications and may be dangerous.

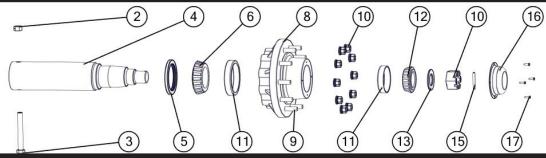
MARNING

MAKE SURE ALL POWER IS SHUT OFF BEFORE PERFORMING ANY MAINTENANCE OR REPAIR WORK.



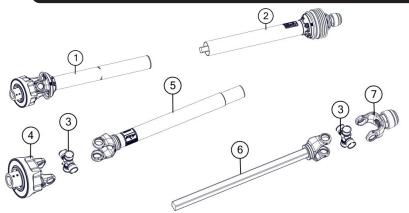
#	Description	Part. No.
1	Hub and Spindle Assembly Complete (HAS-650D)	JM0019940
1	Hub and Spindle Assembly Complete (HAS-650)	JM0022057
2	1"-8 Gr5 Z Centerlock Hex Nut	JM0002149
3	1" x 7" Gr5 Z Hex Bolt (165400)	JM0016689
4	4-1/2" Spindle x 30-1/2" (281900)	JM0018794
4	4-1/2" x 20-1/4" Spindle (1144 Stress-Proof)	JM0019937
5	Seal (6" OD - 3-3/4" ID) for hub w/ scales (since March 2000)(750-35)	JM0021456
5	Seal (6" OD) 1-906979 (CR-43771)	JM0018955
6	Large Bearing (910346)	JM0018849
7	Large Race (HM212049)	JM0018848
8	Hub with large bearing and small races, 3/4" studs & nuts (13.19 bolt circle) (11.13 pilot)(W-881)	JM0020510
9	3/4"-16 Wheel Stud (913564)	JM0018957
10	3/4"-16 Wheel Nut (913571)	JM0018958
11	Small Race (HM212011)	JM0018854
12	Small Bearing (910347)	JM0018852
13	Spindle Washer (913635)	JM0015900
14	Large Castle Nut (912973)	JM0015899
15	Cotter Pin (905945)	JM0018956
16	Dust Cap (909921)	JM0018954
17	1/4"-20 x 1" Gr5 Z Hex Bolt (141G5B)	JM0002095

HUB & SPINDLE ASSEMBLY 250-10 Grain Carts with 6" Diameter Spindles



#	Description	Part. No.
1	Hub and Spindle Assembly Complete with 3/4"-16 Studs and Nuts (HSA-1075-34)	JM0025709
1	Hub and Spindle Assembly Complete with 22MM Studs and Nuts (HSA-1075-22)	JM0019927
2	1"-8 Gr5 Z Centerlock Hex Nut	JM0002149
3	1"-8 X 8" Gr5 Z Hex Bolt (165450)	JM0001487
4	6" Spindle - 29-3/4" Long (628)	JM0019102
5	Seal 55179 (Type C) for G250-10,G300-10B, Spring-assisted (CR55179)	JM0019179
6	Large Bearing (71455)	JM0019112
7	Large Race (71750)	JM0019198
8	Hub with studs & nuts (13.19 bolt circle) (11.13 pilot)	JM0019300
8	Hub with large and small races 3/4"-16 Studs & Nuts (1050 & 1075 Carts prior to 2006) (H25000-34)	JM0019927
9	Stud 22MM 1.5 x 9MM 3.55L 1.005 Knurl (22-MMS)	JM0019178
9	3/4"-16 Wheel Stud (for 1050 and 1075 carts prior to 2006)(750-35)	JM0025710
10	22 MM Lug Nut (22-MMNW)	JM0019192
10	3/4"-16 Wheel Nut (for 1050 and 1075 carts prior to 2006)(913571)	JM0018958
11	Small Race (653)	JM0019195
12	Small Bearing (663)	JM0019177
13	Large Spindle Washer (913632)	JM0019106
14	Large Castle Nut (SF-2512)	JM0019108
15	3/8" X 3-1/2" Z Roll Pin (3754)	JM0020001
16	6" Diameter Spindle Dust Cap (D-25000)	JM0019109
17	1/4"-20 x 1" Gr5 Z Hex Bolt (141G5B)	JM0002095

Power Take-Off (PTO) Shaft Assembly 1-3/4" & 1-3/8" Weasler Automatic Clutch - Black in Color

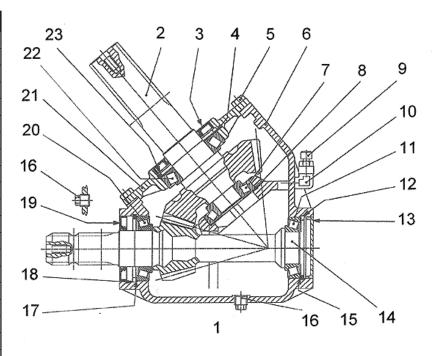


#	Description	Part. No.
9	1-3/4" PTO Complete	JM0018443
9	1-3/4" PTO Complete (XL)	JM0030332
9	1-3/8" PTO Complete	JM0024333
9	1-3/8" PTO Complete (XL)	JM0030641

#	Description	Part. No.
1	Back Half PTO	JM0018513
1	Back Half PTO (XL)	JM0030331
2	1-3/4" Front Half PTO	JM0018514
2	1-3/4" Front Half PTO (XL)	JM0030330
2	1-3/8" Front Half PTO	JM0024367
2	1-3/8" Front Half PTO (XL)	JM0030640
3	55ECross Kit	JM0018449
4	Auto Clutch	JM0018500
5	Yoke, Tube & Sleeve	JM0018519
5	Yoke, Tube & Sleeve (XL)	JM0031647
6	Yoke & Shaft Assembly	JM0018520
6	Yoke & Shaft Assembly (XL)	JM0031648
7	1-3/4" Spring Lock Yoke	JM0018506
7	1-3/8" Spring Lock Yoke	JM0024353
8	Front Guard	JM0018518
8	Front Guard (XL)	JM0030642
8	Back Guard	JM0018517
8	Back Guard (XL)	JM0030645

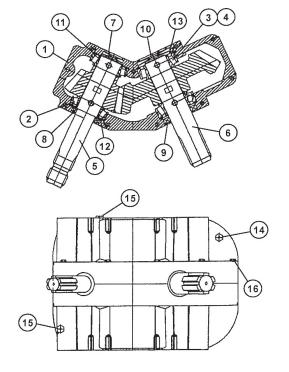
130 Degree Gearbox Assembly for 22" Diameter Augers (Comer) For Models 1131-22, 1251-22 and 1501-22 Grain Carts

#	Description	Part. No.
1	Gearbox Complete (T-325)	JM0025120
2	2" Output Shaft with 30 Tooth Gear (M56)	JM0025121
3	Double Lip Seal (55X100)	JM0025122
4	Shim (997)	JM0025123
5	Bolt (M10X25)	JM0025124
6	Casing (T325C)	JM0025125
7	Bearing With Race (31307)	JM0025126
8	Shim (677)	JM0025127
9	Oil Fill Plug . Breather (386AS)	JM0025128
10	90 Degree Elbow (90EL)	JM0025129
11	Bearing With Race (30209)	JM0025130
12	Snap Ring (85UNI)	JM0025131
13	End Cap (T-325EC)	JM0025132
14	1-3/4" Input Shaft with 15 Tooth Gear (Z15M56)	JM0025133
15	Shim (847)	JM0025134
16	Plug (38PL)	JM0025135
17	Shim (897)	JM0025136
18	Snap Ring (90UNI)	JM0025137
19	Double Lip Seal (55X100)	JM0025138
20	Bearing with Race (30210)	JM0025139
21	Cover (T-325CO)	JM0025140
22	Bearing with Race (30211)	JM0025141
23	Snap Ring (100UNI)	JM0025142
24	Seal Guard with 8MM Bolts (SG-8MM)	JM0025143



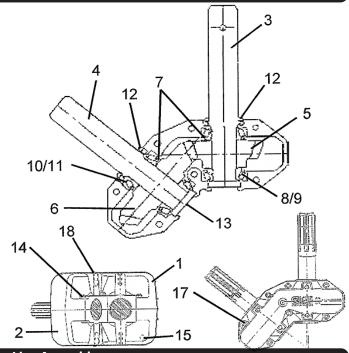
130 Degree Gearbox Assembly for 22" Diameter Augers (since 2009) (WEASLER) For Models 1131-22, 1251-22 and 1501-22 Grain Carts

#	Description	Part. No.
1	Housing Set (70-001114)	JM0025053
2	Bearing, 32210 (71-20017)	JM0025054
3	Bearing Cone, 3780 (71-20044)	JM0025055
4	Bearing Cup, 3720 (71-20033)	JM0025056
5	1-3/4" Input Shaft & Gear Assembly (74-60123)	JM0025057
6	2"Output Shaft & Gear Assembly (74-60125)	JM0025058
7	End Cap Seal, 2" x .276" (71-40016)	JM0025060
8	Seal, 1.75" x 2.717 x .513 (71-40052)	JM0025061
9	Seal, 2 x 3.196 x .433 (71-40080)	JM0025062
10	End Cap Seal, 3.19 x .315 (71-40079)	JM0025063
11	Spacer (71-50160)	JM0025064
12	Spacer (71-50161)	JM0025065
13	Spacer (71-50172)	JM0025066
14	1/2" Bushing 1/8" Relief Plug (72-20011)	JM0025067
15	1/2" Pipe Plug (72-20007)	JM0025068
16	Cap Screw 3/8"-16 UNC x 2.52" (72-0002)	JM0025069
17	130 Degree Gearbox Complete (130-22W)	JM0018677

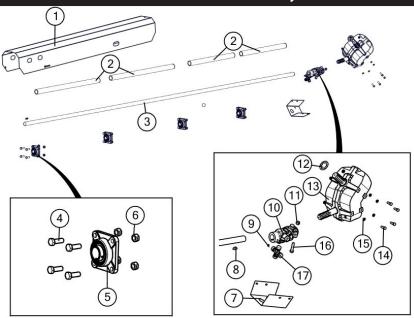


130 Degree Gearbox Assembly For 20" Diameter Augers (SUPERIOR)

#	Description	Part. No.
1	Casting, Upper Half (A0150)	JM0025088
2	Casting, Lower Half (AO149)	JM0025089
3	1-3/4" Input Shaft (A0142)	JM0025090
4	1-3/4" Output Shaft (A0143)	JM0025091
5	18 Tooth Gear (H61S18)	JM0025092
6	29 Tooth Gear (H61S29)	JM0025093
7	Shim, Arbor (H00101-01)	JM0025094
8	Bearing, Cup (414276)	JM0025077
9	Bearing, Cone (514137)	JM0025078
10	Bearing, Cup (413620)	JM0025095
11	Bearing, Cone (413687)	JM0025096
12	Seal (617285)	JM0025097
13	End Cap (400301)	JM0025076
14	Bolt (438225)	JM0025085
15	Plug (400300)	JM0025080
16	Bushing (4003VB)	JM0025073
17	Plug,Vent (2003PR)	JM0025081
18	Plug (200300)	JM0025075
19	130 Degree Gearbox Complete (H130-9)	JM0017840

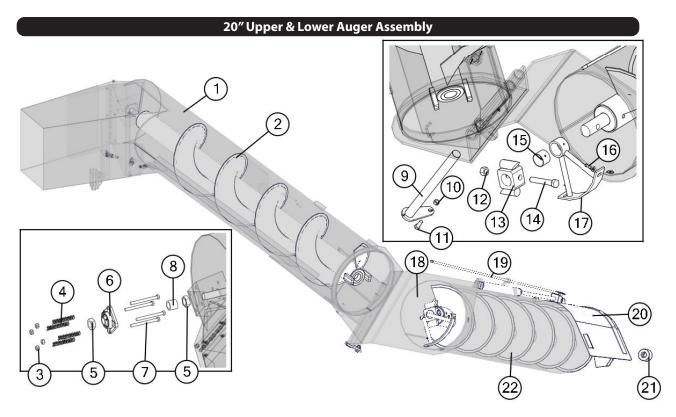


Drive Line Assembly

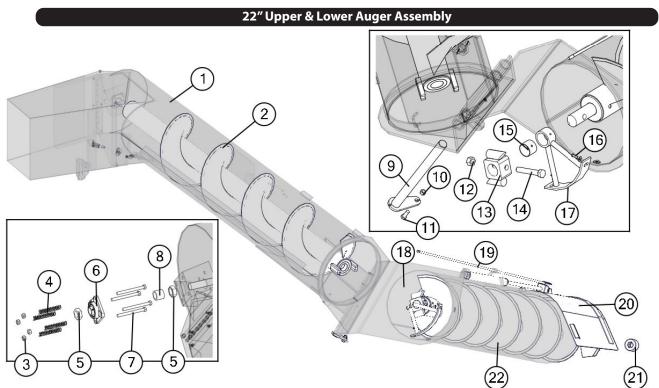


#	Description	Part. No.
1	Driveline Shield 1130, 1131, 1250, 1251	JM0013682
1	Driveline Shield 1500, 1501	JM0017577
2	40" Driveline Cover PVC	JM0027151
3	150" Driveline 1130, 1131, 1250, 1251, March 2006	JM0021345
	& later, Serial # 2200 and higher	
3	156" Driveline, 1130, 1131, 1250, 1251 Prior to	JM0026233
	March 2006	
3	190" Driveline 1500, 1501 Since January 2011	JM0026235
3	193" Driveline 1500, 1501 Prior to January 2011	JM0018655
4	5/8"-11 x 1-3/4" Gr5 Z Hex Bolt	JM0016681
5	1-3/4" Flange Bearing 4 Hole, 750-18, 875-18	JM0018774
6	5/8"-11 Gr5 Z Centerlock Hex Nut	JM0002146

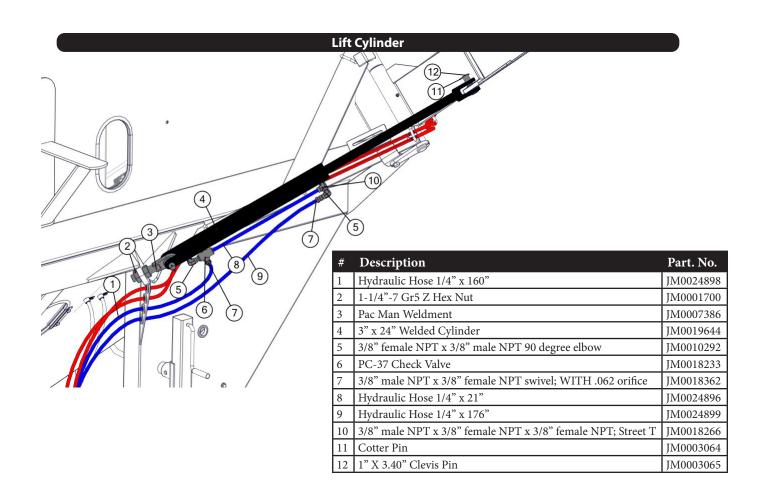
#	Description	Part. No.
7	Knuckle Guard	JM0012698
8	Driveline Key 3/8" x 1-1/2"	JM0018772
9	3/8"-16 x 1/2" Set Screw (SS-3812)	JM0019044
10	U-Joint Assembly, 44 Series	JM0017957
11	5/8"-11 Gr5 Z Centerlock Hex Nut	JM0002146
12	Gearbox Washer	JM0000083
13	Gearbox Assembly (See Pages 24 through 26)	
14	1/2"-13 x 1-1/2" Gr5 Z Hex Bolt	JM0002100
15	1/2" Zinc Finish Lock Washer	JM0019021
16	5/8"-11 x 3" Gr5 Z Hex Bolt	JM0002105
17	Cross Kit 44R, CK-44R	JM0017958



#	Description	Part. No.
1	20" Upper Auger Tube Assembly	JM0018369**
1	20" Longer Upper Auger Tube Assembly	JM0001332**
2	20" Upper Flighting welded to 4-1/2" x 120" pipe with 9" shaft (UF-20)	JM0021323
2	20" Upper Flighting welded to 4-1/2" x 120" pipe with 9" shaft, slider (UF-20S)	JM0021319
2	20" Longer Upper Flighting welded to 4-1/2" x 120" pipe with 21" shaft (LUA-20-F)	JM0021321
3	1/2"-13 Gr5 Z Centerlock Hex Nut	JM0001511
4	Compression Spring (CMSUAA-4)	JM0018559
5	1-1/4"-12 PN Gr5 Hex Jam Nut	JM0001606
6	1-1/4" Flange Bearing, 4 hole (GRAF-206)	JM0018560
7	1/2"-13 x 5-1/2" Gr5 Z Hex Bolt	JM0001498
8	1-1/2" Spacer	JM0016792
9	Pin Weldment 20"	JM0021236
9	1-3/4" x 19-1/2" Pin for Hinge 1130-20, 1250-20, 1500-20 (134-P20) 2012 & Earlier	JM0026556
10	5/8"-11 Gr5 Z Centerlock Hex Nut	JM0002146
11	5/8"-11 x 1.75 Gr5 Z Hex Bolt	JM0016681
12	1"-8 Gr5 Z Hex Nut	JM0002127
13	Drive Dog Weldment 1130-20, 1250-20, 1500-20 (DDW21220)	JM0000093
14	1"-8 x 6" Gr5 Z Hex Bolt	JM0002111
15	2-1/2" ID Bronze Bushing (BB-212)	JM0016841
16	3/8"-16 x 1" Gr8 Z Hex Bolt	JM0001485
17	Hanger Bushing Assembly 20" (HBA-20)	JM0019655
18	Lower Auger Liner 20" (LAL-20)	JM0026559
18	20" x 132" Lower Auger Liner 1325-20 (LAL-20135)	JM0080231
19	Indicator Rod, 1130-20, 1250-20, 1500-20 (GI-12-6B)	JM0021282
20	Auger Gate Cover (See Grain Cart Assembly)	JM0010947
21	2-1/2" OD x 3" Spline Coupler (SC-25X3)	JM0016883
22	20" Lower Flighting welded to 4-1/2" x 147-1/2" pipe, 1130-20, 1250-20 (LF-20)	JM0021325
22	20" Lower Flighting welded to 4-1/2" x 162" pipe, 1500-20 (LF-20-162)	JM0025513



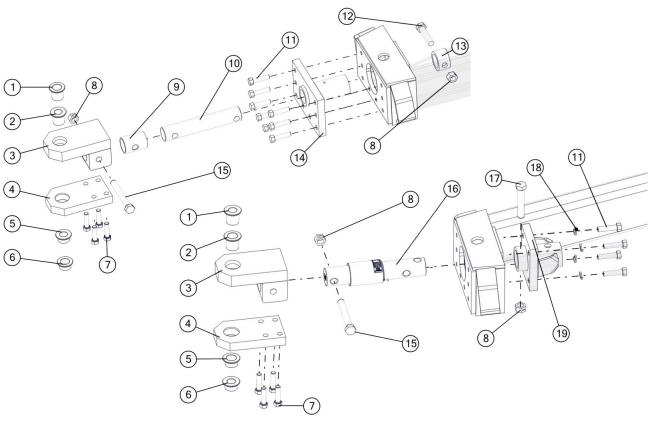
1 22" Longer Upper Auger Tube Assembly 142" JM0034979 2 22" Upper Flighting (leaned) welded to 6" x 121" pipe with 9" shaft (UF-22GS) JM0019702 2 22" Upper Flighting (leaned) welded to 6" x 121" pipe with 9" shaft for slider auger (UF-22GS-S) JM0019700 2 22" Longer Upper Flighting (leaned) welded to 6" x 121" pipe with 21" shaft (LUA-22-F) JM0019696 3 1/2"-13 Gr5 Z Centerlock Hex Nut JM001559 4 Compression Spring (CMSUAA-4) JM0018559 5 1-1/4"-12 PN Gr5 Hex Jam Nut JM001606 6 1-1/4"-12 PN Gr5 Hex Jam Nut JM001606 6 1-1/4"-12 PN Gr5 Hex Jam Nut JM0016850 7 1/2"-13 x 5-1/2" Gr5 Z Hex Bolt JM001692 8 1-1/2" Spacer JM0016792 9 22" Hinge Pin Weldment JM0025101 10 5/8"-11 Gr5 Z Centerlock Hex Nut JM0026101 11 5/8"-11 Gr5 Z Hex Bolt JM0016641 12 1"-8 Gr5 Z Hex Nut JM0016212 13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM0002127 12 22" S A Gr Gr5 Z Hex Bolt JM0002111 15 2-1/2" ID Bronze Bu		\sim	\sim
1 22" Longer Upper Auger Tube Assembly 142" JM0034979 2 22" Upper Flighting (leaned) welded to 6" x 121" pipe with 9" shaft (UF-22GS) JM0019702 2 22" Upper Flighting (leaned) welded to 6" x 121" pipe with 9" shaft for slider auger (UF-22GS-S) JM0019700 2 22" Longer Upper Flighting (leaned) welded to 6" x 121" pipe with 21" shaft (LUA-22-F) JM0019696 3 1/2"-13 Gr5 Z Centerlock Hex Nut JM001559 4 Compression Spring (CMSUAA-4) JM0018559 5 1-1/4"-12 PN Gr5 Hex Jam Nut JM001606 6 1-1/4"-12 PN Gr5 Hex Jam Nut JM001606 6 1-1/4"-12 PN Gr5 Hex Jam Nut JM0016850 7 1/2"-13 x 5-1/2" Gr5 Z Hex Bolt JM001692 8 1-1/2" Spacer JM0016792 9 22" Hinge Pin Weldment JM0025101 10 5/8"-11 Gr5 Z Centerlock Hex Nut JM0026101 11 5/8"-11 Gr5 Z Hex Bolt JM0016641 12 1"-8 Gr5 Z Hex Nut JM0016212 13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM0002127 12 22" S A Gr Gr5 Z Hex Bolt JM0002111 15 2-1/2" ID Bronze Bu	#	Description	Part. No.
2 22" Upper Flighting (leaned) welded to 6" x 121" pipe with 9" shaft (UF-22GS) JM0019702 2 22" Upper Flighting (leaned) welded to 6" x 121" pipe with 9" shaft for slider auger (UF-22GS-S) JM0019700 2 22" Longer Upper Flighting (leaned) welded to 6" x 121" pipe with 21" shaft (LUA-22-F) JM0019696 3 1/2"-13 Gr5 Z Centerlock Hex Nut JM0001511 4 Compression Spring (CMSUAA-4) JM0001606 5 1-1/4"-12 PN Gr5 Hex Jam Nut JM0001606 6 1-1/4" Flange Bearing, 4 hole (GRAF-206) JM0018560 7 1/2"-13 x 5-1/2" Gr5 Z Hex Bolt JM0016792 8 1-1/2" Spacer JM0016792 9 22" Hinge Pin Weldment JM0025101 10 5/8"-11 Gr5 Z Centerlock Hex Nut JM0002146 11 1"-8 Gr5 Z Hex Bolt JM0002127 12 1"-8 Gr5 Z Hex Nut JM0002127 13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM000211 15 2-1/2" ID Bronze Bushing (BB-212) JM00016841 16 3/8"-16 x 1" Gr8 Z Hex Bolt JM001485 17 22" Hanger Bushing Assembly (HBA-22) JM001485 18 Lowe	1	22" Upper Auger Tube Assembly 130", 1131-22, 1251-22, 1501-22	JM0018304**
2 22" Upper Flighting (leaned) welded to 6" x 121" pipe with 9" shaft for slider auger (UF-22GS-S) JM0019700 2 22" Longer Upper Flighting (leaned) welded to 6" x 121" pipe with 21" shaft (LUA-22-F) JM0019696 3 1/2"-13 Gr5 Z Centerlock Hex Nut JM0001511 4 Compression Spring (CMSUAA-4) JM0018559 5 1-1/4"-12 PN Gr5 Hex Jam Nut JM0001606 6 1-1/4" Flange Bearing, 4 hole (GRAF-206) JM001650 7 1/2"-13 x 5-1/2" Gr5 Z Hex Bolt JM0001498 8 1-1/2" Spacer JM00016792 9 22" Hinge Pin Weldment JM0025101 10 5/8"-11 Gr5 Z Centerlock Hex Nut JM002146 11 5/8"-11 x 1-3/4" Gr5 Z Hex Bolt JM0002146 12 1"-8 Gr5 Z Hex Nut JM0002127 13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM0002127 13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM0002111 15 2-1/2" ID Bronze Bushing (BB-212) JM0016841 16 3/8"-16 x 1" Gr8 Z Hex Bolt JM001485 17 22" Hanger Bushing Assembly (HBA-22) JM001485 18 Lower Aug	1	22" Longer Upper Auger Tube Assembly 142"	JM0034979**
2 22" Longer Upper Flighting (leaned) welded to 6" x 121" pipe with 21" shaft (LUA-22-F) JM0019696 3 1/2"-13 Gr5 Z Centerlock Hex Nut JM0001511 4 Compression Spring (CMSUAA-4) JM0018559 5 1-1/4"-12 PN Gr5 Hex Jam Nut JM0001606 6 1-1/4" Flange Bearing, 4 hole (GRAF-206) JM0018560 7 1/2"-13 x 5-1/2" Gr5 Z Hex Bolt JM0001498 8 1-1/2" Spacer JM0016792 9 22" Hinge Pin Weldment JM0025101 10 5/8"-11 Gr5 Z Centerlock Hex Nut JM002164 11 5/8"-11 x 1-3/4" Gr5 Z Hex Bolt JM0016681 12 1"-8 Gr5 Z Hex Nut JM0002127 13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM0002127 13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM0002111 15 2-1/2" ID Bronze Bushing (BB-212) JM0016841 16 3/8"-16 x 1" Gr8 Z Hex Bolt JM001485 17 22" Hanger Bushing Assembly (HBA-22) JM001485 18 Lower Auger Liner for 22" Diameter Auger, 88" Long (LAL-22) JM0034028 18 Lower Auger Liner for 1325 Thru 1500 with 22"	2	22" Upper Flighting (leaned) welded to 6" x 121" pipe with 9" shaft (UF-22GS)	JM0019702
3 1/2"-13 Gr5 Z Centerlock Hex Nut JM0001511 4 Compression Spring (CMSUAA-4) JM0018559 5 1-1/4"-12 PN Gr5 Hex Jam Nut JM001606 6 1-1/4" Flange Bearing, 4 hole (GRAF-206) JM0018560 7 1/2"-13 x 5-1/2" Gr5 Z Hex Bolt JM0001498 8 1-1/2" Spacer JM0016792 9 22" Hinge Pin Weldment JM0025101 10 5/8"-11 Gr5 Z Centerlock Hex Nut JM002146 11 5/8"-11 x 1-3/4" Gr5 Z Hex Bolt JM001681 12 1"-8 Gr5 Z Hex Nut JM0002127 13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM0002217 14 1"-8 x 6" Gr5 Z Hex Bolt JM0002111 15 2-1/2" ID Bronze Bushing (BB-212) JM0016841 16 3/8"-16 x 1" Gr8 Z Hex Bolt JM0016851 17 22" Hanger Bushing Assembly (HBA-22) JM0019656 18 Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135) JM0019656 19 Indicator Rod 22" JM001936 20 Auger Gate Cover (See Grain Cart Assembly) JM0017850 21 3-3/4" OD x 3" Sp	2	22" Upper Flighting (leaned) welded to 6" x 121" pipe with 9" shaft for slider auger (UF-22GS-S)	JM0019700
4 Compression Spring (CMSUAA-4) JM0018559 5 1-1/4"-12 PN Gr5 Hex Jam Nut JM0001606 6 1-1/4" Flange Bearing, 4 hole (GRAF-206) JM0018560 7 1/2"-13 x 5-1/2" Gr5 Z Hex Bolt JM0001498 8 1-1/2" Spacer JM0016792 9 22" Hinge Pin Weldment JM0025101 10 5/8"-11 Gr5 Z Centerlock Hex Nut JM0002146 11 5/8"-11 x 1-3/4" Gr5 Z Hex Bolt JM0016681 12 1"-8 Gr5 Z Hex Nut JM0002127 13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM0002919 14 1"-8 x 6" Gr5 Z Hex Bolt JM0002919 15 2-1/2" ID Bronze Bushing (BB-212) JM0016841 16 3/8"-16 x 1" Gr8 Z Hex Bolt JM001485 17 22" Hanger Bushing Assembly (HBA-22) JM0019656 18 Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135) JM0019360 18 Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135) JM0019360 19 Indicator Rod 22" JM0019360 20 Auger Gate Cover (See Grain Cart Assembly) JM0017850	2	22" Longer Upper Flighting (leaned) welded to 6" x 121" pipe with 21" shaft (LUA-22-F)	JM0019696
5 1-1/4"-12 PN Gr5 Hex Jam Nut JM0001606 6 1-1/4" Flange Bearing, 4 hole (GRAF-206) JM0018560 7 1/2"-13 x 5-1/2" Gr5 Z Hex Bolt JM0001498 8 1-1/2" Spacer JM0016792 9 22" Hinge Pin Weldment JM0025101 10 5/8"-11 Gr5 Z Centerlock Hex Nut JM0002146 11 5/8"-11 x 1-3/4" Gr5 Z Hex Bolt JM0016681 12 1"-8 Gr5 Z Hex Nut JM0002127 13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM0002919 14 1"-8 x 6" Gr5 Z Hex Bolt JM0002111 15 2-1/2" ID Bronze Bushing (BB-212) JM0016841 16 3/8"-16 x 1" Gr8 Z Hex Bolt JM001485 17 22" Hanger Bushing Assembly (HBA-22) JM0019656 18 Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135) JM0034028 18 Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135) JM0017850 20 Auger Gate Cover (See Grain Cart Assembly) JM0017850 21 3-3/4" OD x 3" Spline Coupler (SC-334X3) JM0021424 22" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount	3	1/2"-13 Gr5 Z Centerlock Hex Nut	JM0001511
6 1-1/4" Flange Bearing, 4 hole (GRAF-206) JM0018560 7 1/2"-13 x 5-1/2" Gr5 Z Hex Bolt JM0001498 8 1-1/2" Spacer JM0016792 9 22" Hinge Pin Weldment JM0025101 10 5/8"-11 Gr5 Z Centerlock Hex Nut JM0002146 11 5/8"-11 x 1-3/4" Gr5 Z Hex Bolt JM0016681 12 1"-8 Gr5 Z Hex Nut JM0002127 13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM0002919 14 1"-8 x 6" Gr5 Z Hex Bolt JM0002111 15 2-1/2" ID Bronze Bushing (BB-212) JM0016841 16 3/8"-16 x 1" Gr8 Z Hex Bolt JM001485 17 22" Hanger Bushing Assembly (HBA-22) JM0019656 18 Lower Auger Liner for 22" Diameter Auger, 88" Long (LAL-22) JM0034028 18 Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135) JM0019396 20 Auger Gate Cover (See Grain Cart Assembly) JM0017850 21 3-3/4" OD x 3" Spline Coupler (SC-334X3) JM009701 22 22" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount Couple JM0021424	4	Compression Spring (CMSUAA-4)	JM0018559
7 1/2"-13 x 5-1/2" Gr5 Z Hex Bolt JM0001498 8 1-1/2" Spacer JM0016792 9 22" Hinge Pin Weldment JM0025101 10 5/8"-11 Gr5 Z Centerlock Hex Nut JM0002146 11 5/8"-11 x 1-3/4" Gr5 Z Hex Bolt JM0016681 12 1"-8 Gr5 Z Hex Nut JM0002127 13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM0002919 14 1"-8 x 6" Gr5 Z Hex Bolt JM0002111 15 2-1/2" ID Bronze Bushing (BB-212) JM0016841 16 3/8"-16 x 1" Gr8 Z Hex Bolt JM001485 17 22" Hanger Bushing Assembly (HBA-22) JM0019656 18 Lower Auger Liner for 22" Diameter Auger, 88" Long (LAL-22) JM0034028 18 Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135) JM0026576 19 Indicator Rod 22" JM0017850 20 Auger Gate Cover (See Grain Cart Assembly) JM0017850 21 3-3/4" OD x 3" Spline Coupler (SC-334X3) JM0021424 22" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount Couple JM0021424	5	1-1/4"-12 PN Gr5 Hex Jam Nut	JM0001606
8 1-1/2" Spacer JM0016792 9 22" Hinge Pin Weldment JM0025101 10 5/8"-11 Gr5 Z Centerlock Hex Nut JM0002146 11 5/8"-11 x 1-3/4" Gr5 Z Hex Bolt JM0016681 12 1"-8 Gr5 Z Hex Nut JM0002127 13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM0002919 14 1"-8 x 6" Gr5 Z Hex Bolt JM0002111 15 2-1/2" ID Bronze Bushing (BB-212) JM0016841 16 3/8"-16 x 1" Gr8 Z Hex Bolt JM001485 17 22" Hanger Bushing Assembly (HBA-22) JM0019656 18 Lower Auger Liner for 22" Diameter Auger, 88" Long (LAL-22) JM0034028 18 Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135) JM0026576 19 Indicator Rod 22" JM0017850 20 Auger Gate Cover (See Grain Cart Assembly) JM0017850 21 3-3/4" OD x 3" Spline Coupler (SC-334X3) JM009701 22 22" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount Couple JM0021424	6	1-1/4" Flange Bearing, 4 hole (GRAF-206)	JM0018560
9 22" Hinge Pin Weldment JM0025101 10 5/8"-11 Gr5 Z Centerlock Hex Nut JM0002146 11 5/8"-11 x 1-3/4" Gr5 Z Hex Bolt JM0016681 12 1"-8 Gr5 Z Hex Nut JM0002127 13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM0002919 14 1"-8 x 6" Gr5 Z Hex Bolt JM0002111 15 2-1/2" ID Bronze Bushing (BB-212) JM0016841 16 3/8"-16 x 1" Gr8 Z Hex Bolt JM001485 17 22" Hanger Bushing Assembly (HBA-22) JM0019656 18 Lower Auger Liner for 22" Diameter Auger, 88" Long (LAL-22) JM0034028 18 Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135) JM0026576 19 Indicator Rod 22" JM0019396 20 Auger Gate Cover (See Grain Cart Assembly) JM0017850 21 3-3/4" OD x 3" Spline Coupler (SC-334X3) JM0009701 22 22" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount Couple JM0021424	7	1/2"-13 x 5-1/2" Gr5 Z Hex Bolt	JM0001498
10 5/8"-11 Gr5 Z Centerlock Hex Nut JM0002146 11 5/8"-11 x 1-3/4" Gr5 Z Hex Bolt JM0016681 12 1"-8 Gr5 Z Hex Nut JM0002127 13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM0002919 14 1"-8 x 6" Gr5 Z Hex Bolt JM0002111 15 2-1/2" ID Bronze Bushing (BB-212) JM0016841 16 3/8"-16 x 1" Gr8 Z Hex Bolt JM0001485 17 22" Hanger Bushing Assembly (HBA-22) JM0019656 18 Lower Auger Liner for 22" Diameter Auger, 88" Long (LAL-22) JM0034028 18 Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135) JM0026576 19 Indicator Rod 22" JM0019396 20 Auger Gate Cover (See Grain Cart Assembly) JM0017850 21 3-3/4" OD x 3" Spline Coupler (SC-334X3) JM009701 22 22" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount Couple JM0021424	8	1-1/2" Spacer	JM0016792
11 5/8"-11 x 1-3/4" Gr5 Z Hex Bolt JM0016681 12 1"-8 Gr5 Z Hex Nut JM0002127 13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM0002919 14 1"-8 x 6" Gr5 Z Hex Bolt JM0002111 15 2-1/2" ID Bronze Bushing (BB-212) JM0016841 16 3/8"-16 x 1" Gr8 Z Hex Bolt JM001485 17 22" Hanger Bushing Assembly (HBA-22) JM0019656 18 Lower Auger Liner for 22" Diameter Auger, 88" Long (LAL-22) JM0034028 18 Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135) JM0026576 19 Indicator Rod 22" JM0019396 20 Auger Gate Cover (See Grain Cart Assembly) JM0017850 21 3-3/4" OD x 3" Spline Coupler (SC-334X3) JM0009701 22 22" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount Couple JM0021424	9	22" Hinge Pin Weldment	JM0025101
12 1"-8 Gr5 Z Hex Nut JM0002127 13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM0002919 14 1"-8 x 6" Gr5 Z Hex Bolt JM0002111 15 2-1/2" ID Bronze Bushing (BB-212) JM0016841 16 3/8"-16 x 1" Gr8 Z Hex Bolt JM001485 17 22" Hanger Bushing Assembly (HBA-22) JM0019656 18 Lower Auger Liner for 22" Diameter Auger, 88" Long (LAL-22) JM0034028 18 Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135) JM0026576 19 Indicator Rod 22" JM0019396 20 Auger Gate Cover (See Grain Cart Assembly) JM0017850 21 3-3/4" OD x 3" Spline Coupler (SC-334X3) JM0009701 22 22" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount Couple JM0021424	10	5/8"-11 Gr5 Z Centerlock Hex Nut	JM0002146
13 22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222) JM0002919 14 1"-8 x 6" Gr5 Z Hex Bolt JM0002111 15 2-1/2" ID Bronze Bushing (BB-212) JM0016841 16 3/8"-16 x 1" Gr8 Z Hex Bolt JM0001485 17 22" Hanger Bushing Assembly (HBA-22) JM0019656 18 Lower Auger Liner for 22" Diameter Auger, 88" Long (LAL-22) JM0034028 18 Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135) JM0026576 19 Indicator Rod 22" JM0019396 20 Auger Gate Cover (See Grain Cart Assembly) JM0017850 21 3-3/4" OD x 3" Spline Coupler (SC-334X3) JM0009701 22 22" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount Couple JM0021424	11	5/8"-11 x 1-3/4" Gr5 Z Hex Bolt	JM0016681
14 1"-8 x 6" Gr5 Z Hex Bolt JM0002111 15 2-1/2" ID Bronze Bushing (BB-212) JM0016841 16 3/8"-16 x 1" Gr8 Z Hex Bolt JM0001485 17 22" Hanger Bushing Assembly (HBA-22) JM0019656 18 Lower Auger Liner for 22" Diameter Auger, 88" Long (LAL-22) JM0034028 18 Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135) JM0026576 19 Indicator Rod 22" JM0019396 20 Auger Gate Cover (See Grain Cart Assembly) JM0017850 21 3-3/4" OD x 3" Spline Coupler (SC-334X3) JM0009701 22 22" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount Couple JM0021424	12	1"-8 Gr5 Z Hex Nut	JM0002127
15 2-1/2" ID Bronze Bushing (BB-212) JM0016841 16 3/8"-16 x 1" Gr8 Z Hex Bolt JM0001485 17 22" Hanger Bushing Assembly (HBA-22) JM0019656 18 Lower Auger Liner for 22" Diameter Auger, 88" Long (LAL-22) JM0034028 18 Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135) JM0026576 19 Indicator Rod 22" JM0019396 20 Auger Gate Cover (See Grain Cart Assembly) JM0017850 21 3-3/4" OD x 3" Spline Coupler (SC-334X3) JM0009701 22 22" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount Couple JM0021424	13	22" Drive Dog Weldment 1131-22, 1251-22, 1501-22 (DDW-21222)	JM0002919
16 3/8"-16 x 1" Gr8 Z Hex Bolt JM0001485 17 22" Hanger Bushing Assembly (HBA-22) JM0019656 18 Lower Auger Liner for 22" Diameter Auger, 88" Long (LAL-22) JM0034028 18 Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135) JM0026576 19 Indicator Rod 22" JM0019396 20 Auger Gate Cover (See Grain Cart Assembly) JM0017850 21 3-3/4" OD x 3" Spline Coupler (SC-334X3) JM0009701 22 22" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount Couple JM0021424	14	1"-8 x 6" Gr5 Z Hex Bolt	JM0002111
17 22" Hanger Bushing Assembly (HBA-22) JM0019656 18 Lower Auger Liner for 22" Diameter Auger, 88" Long (LAL-22) JM0034028 18 Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135) JM0026576 19 Indicator Rod 22" JM0019396 20 Auger Gate Cover (See Grain Cart Assembly) JM0017850 21 3-3/4" OD x 3" Spline Coupler (SC-334X3) JM0009701 22 22" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount Couple JM0021424	15	2-1/2" ID Bronze Bushing (BB-212)	JM0016841
18Lower Auger Liner for 22" Diameter Auger, 88" Long (LAL-22)JM003402818Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135)JM002657619Indicator Rod 22"JM001939620Auger Gate Cover (See Grain Cart Assembly)JM0017850213-3/4" OD x 3" Spline Coupler (SC-334X3)JM00097012222" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount CoupleJM0021424	16	3/8"-16 x 1" Gr8 Z Hex Bolt	JM0001485
18Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135)JM002657619Indicator Rod 22"JM001939620Auger Gate Cover (See Grain Cart Assembly)JM0017850213-3/4" OD x 3" Spline Coupler (SC-334X3)JM00097012222" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount CoupleJM0021424	17	22" Hanger Bushing Assembly (HBA-22)	JM0019656
19Indicator Rod 22"JM001939620Auger Gate Cover (See Grain Cart Assembly)JM0017850213-3/4" OD x 3" Spline Coupler (SC-334X3)JM00097012222" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount CoupleJM0021424	18	Lower Auger Liner for 22" Diameter Auger, 88" Long (LAL-22)	JM0034028
20Auger Gate Cover (See Grain Cart Assembly)JM0017850213-3/4" OD x 3" Spline Coupler (SC-334X3)JM00097012222" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount CoupleJM0021424	18	Lower Auger Liner for 1325 Thru 1500 with 22" Diameter Auger (LAL-22135)	JM0026576
213-3/4" OD x 3" Spline Coupler (SC-334X3)JM00097012222" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount CoupleJM0021424	19	Indicator Rod 22"	JM0019396
22 22" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount Couple JM0021424	20	Auger Gate Cover (See Grain Cart Assembly)	JM0017850
	21	3-3/4" OD x 3" Spline Coupler (SC-334X3)	JM0009701
22 22" Lower Flighting welded to 6" dia nine v 162-3/4" Long (LF-22GS-162) (1501) IM0019676	22	22" Lower Flighting (leaned) welded to 6" x 146 1/4" pipe with Flush-Mount Couple	JM0021424
22 22 Lower Frighting welded to 6 dia. pipe x 102-5/4 Long (EF-22G5-102) (1501)	22	22" Lower Flighting welded to 6" dia. pipe x 162-3/4" Long (LF-22GS-162) (1501)	JM0019676



Flow Control Spout

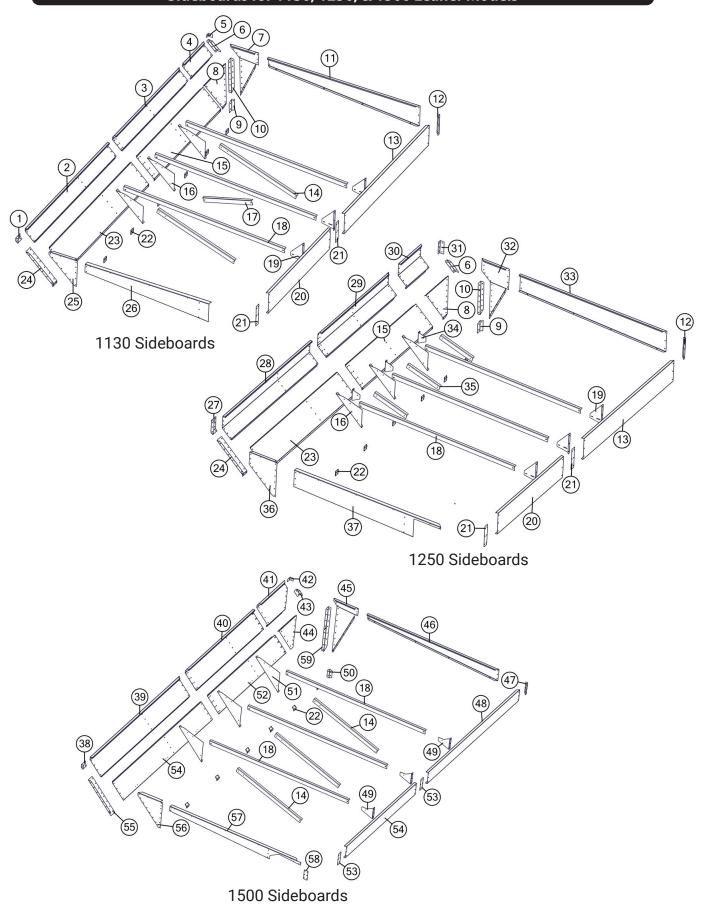
#	Description	Part. No.
1	1/2"-13 x 2" Gr5 Z Hex Bolt	JM0001593
2	1/2"-13 Gr5 Z Centerlock Hex Nut	JM0001511
3	1/4"-20 x 5/8" Gr5 Z Hex Bolt	JM0001479
4	20" Hinge Plate (20" diameter auger)	JM0018583
4	22" Hinge Plate (22" diameter auger)	JM0018582
5	1/4" USS Flat Washer	JM0003090
6	1/4"-20 Gr5 Z Centerlock Hex Nut	JM0001505
7	1/2" x 1-3/4" Pin	JM0018264
8	1/4" x 412" Hydraulic Hose (All Models 1325 and 1326 Grain Carts)	JM0024925
9	1/4" male NPTswivel with .032 orifice	JM0020113
10	1/4" male NPT X 1/4" female NPT rigid; 90 degree elbow	JM0020115
11	1/2"-13 x 2" Gr5 Z Hex Bolt	JM0001593
12	20" Baffle Plate (20" diameter auger)	JM0009692
12	22" Baffle Plate (old style) (tapered) (22" diameter auger)	JM0026697
12	22" Baffle Plate (new style) (rectangular) (22" diameter auger)	JM0010977
13	20" Flow Control Spout Housing (20" diameter auger)	JM0018282
13	22" Flow Control Spout Housing (22" diameter auger)	JM0018284
14	Mercury Switch	JM0017896
15	Field Assembly Light	JM0001881
16	3/8" Wire Loom	JM0020450

Hitch Assembly



#	Description	Part. No.
1	1-1/2" Pin adapter for Grain Cart Clevis Hitch Tang	JM0014203
2	1-1/4" Pin adapter for Grain Cart Spade Hitch	JM0019032
3	Hitch Weldment	JM0017978
4	Clevis Hitch Tang	JM0017976
5	1-1/4" Pin adapter for Grain Cart Clevis Hitch Tang	JM0019031
6	1-1/2" Pin adapter for Grain Cart Clevis Hitch Tang	JM0014206
7	3/4"-16 x 3" Fine Thread Hex Bolt	JM0002107
8	1"-8 Gr5 Z Centerlock Hex Nut	JM0002149
9	2-1/2" Hitch Spindle Sleeve	JM0018258
10	2-7/8" Hitch Spindle, 1000-20 through 1501-22, Non-Scale	JM0025787
11	3/4"-16 x 3" Gr8 YZ Hex Bolt (343HB)	JM0018542
12	1"-8 x 4-1/2" Gr5 Z Hex Bolt (1412G5B)	JM0016687
13	2-7/8" Hitch Spindle Collar	JM0025785
14	Hitch Spool Plate 2-7/8" (HSPS-2)	JM0025783
15	1"-8 x 7-1/2" Gr8 YZ Hex Bolt (165410)	JM0017944
16	Weigh-Tronix - 2-7/8" Weigh Bar, 1130-1501, All Duals, 3 Point Scale System (278WB)	JM0019969
16	Digi-Star - 2-7/8" Weigh Bar, 1130-1501, 5 Point Scale System (278WB-T)	JM0000355
17	1"-8 x 5-1/2" Gr5 Z Hex Bolt (1512G5B)	JM0002110
18	3/4" Zinc Finish Lock Washer	JM0018544
19	Weigh Bar Receiver Weldment Scales 2-7/8" (WBW-278)	JM0000019

Sideboards for 1130, 1250, & 1500 Leaner Models



Sideboards for 1130, 1250, & 1500 Leaner Models

#	Description	Part. No
1	1130 Front Top Corner	JM0007363
2	1130 Front Top Sideboard	JM0007304
3	1130 Back Top Sideboard	JM0007326
4	1130 Back Corner Top Side Tri	JM0007334
5	1130 Back Top Corner	JM0007367
6	1130 Back Tapered Corner	JM0007370
7	1130 Back Endboard Tri	JM0007362
8	1130 Back Side Bottom Tri	JM0007305
9	1130 Back Corner Inside Shedder	JM0007371
10	1130 Back Slope Corner	JM0007368
11	1130 Back Endboard	JM0007341
12	1050 Sideboard Corner	JM0010989
13	1050 Back Half High Sideboard	JM0011031
14	1130 Inside Brace	JM0007266
15	1130 Back Bottom Sideboard	JM0007307
16	Sideboard Brace	JM0007396
17	48" Inside Brace (Sideboard Brace)	JM0010933
18	Center Cross Brace	JM0007265
19	1050 High Sideboard Brace	JM0010920
20	1050 Front Half High Sideboard	JM0011034
21	1050 Sideboard Splice	JM0010965
22	Leaner Hinges	JM0025638
23	1130 Front Bottom Sideboard	JM0007303
24	1130 Front Tri Slope Corner	JM0007366
25	1130 Front Endboard Tri	JM0007338
26	1130 Front Endboard Slip Cover	JM0007337
27	1250 Front Top Corner	JM0007414
28	1250 Front Top Sideboard	JM0007400
29	1250 Back Top Sideboard	JM0007401
30	1250 Back Corner Top Side Tri	JM0007402
31	1250 Leaner Back Top Corner	JM0025307

#	Description	Part. No
32	1250 Back Endboard Tri	JM0007412
33	1250 Back Endboard	JM0007410
34	1250 High Sideboard Brace	JM0007420
35	1250 High to Low Crossbrace	JM0007419
36	1250 Front Endboard Tri	JM0007405
37	1250 Front Endboard	JM0007404
38	1500 Front Top Corner	JM0007249
39	1500 Front Top Sideboard	JM0007238
40	1500 Back Top Sideboard	JM0007240
41	1500 Back Corner Top Side Tri	JM0007241
42	1500 Back Top Corner	JM0007252
43	1500 Back Tapered Corner	JM0007253
44	1500 Back Side Bottom Tri	JM0007233
45	1500 Back Endboard Tri	JM0007248
46	1500 Back Endboard	JM0007244
47	1325 High Sideboard Corner	JM0009700
48	1325 Back Half High Sideboard	JM0017484
49	High Sideboard Brace (High Side)	JM0007267
50	1500 Back Corner Inside Shedder	JM0007254
51	1500 Sideboard Brace	JM0007268
52	1500 Back Bottom Sideboard	JM0007239
53	1325 High Sideboard Splice	JM0009702
54	1325 Front Half High Sideboard	JM0017349
55	1500 Front Tri Slope Corner	JM0007250
56	1500 Front Endboard Tri	JM0007243
57	1500 Front Endboard - Slip Cover	JM0007242
58	1325 Front Endboard Splice	JM0009705
59	1500 Back Slope Corner	JM0007251
*	1130 Complete set with hardware	JM0027991
*	1250 Complete set with hardware	JM0027990
*	1500 Complete set with hardware	JM0027992

When requesting an item with color, end the part number with -R, -B, -G, or -Y. (e.g. JM0000000-R)

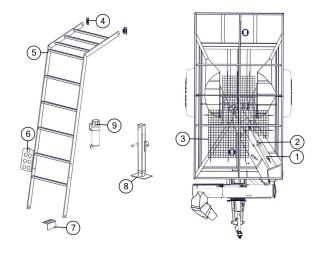
^{*}-R = Red

^{*-}B = Blue

^{*}-G = Green

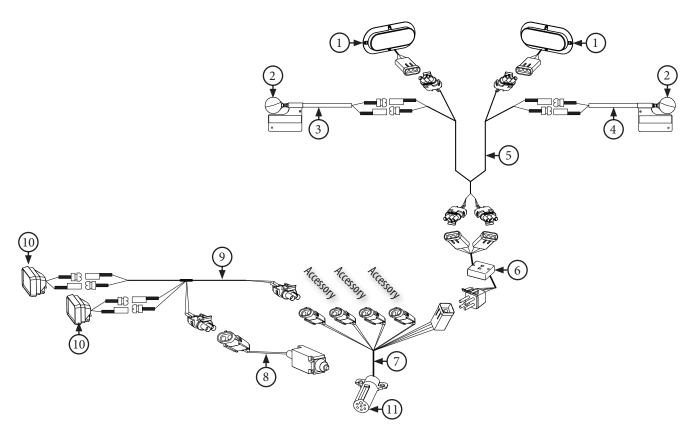
 $^{^*}$ -Y = Yellow

Miscellaneous



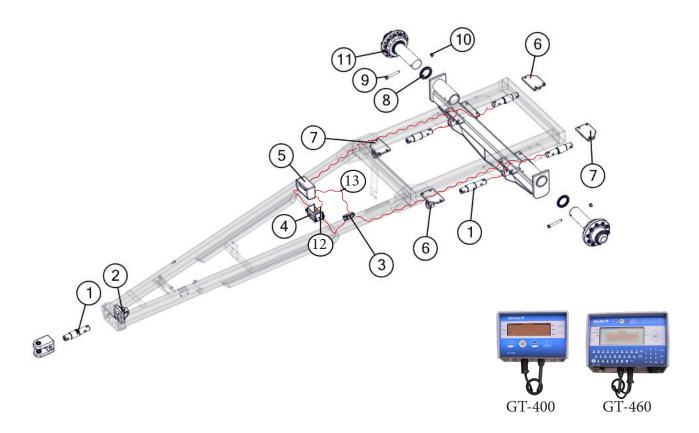
#	Description	Part. No.
1	1/4" x 43" Hydraulic Hose	JM0024904
2	1/2" x 43" Hydraulic Hose	JM0024906
3	Steel Grate (1130,1250)	JM0020927
3	Steel Grate (1500)	JM0017723
4	Universal Ladder Bracket	JM0016922
5	4 Rung Ladder Platform	JM0018805
6	Hydraulic Hose Holder	JM0012711
7	Frame Rail Step	JM0019030
8	Jack Stand Assembly	JM0010191
9	Manual Canister	JM0010115
10	30k Lb Safety Chain	JM0027440

Light Kit Assembly



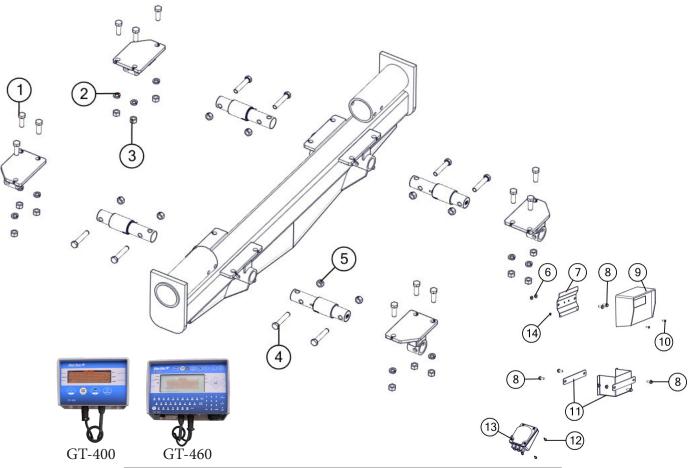
#	Description	Part. No.
1	Red Light (LED)	JM0034389
2	Amber Light Only	JM0018819
3	Extendable Amber Light Assembly (Left Side)	JM0018817
4	Extendable Amber Light Assembly (Right Side)	JM0018826
5	Wiring Harness for Rear Lights (Each)	JM0020437
6	Light Enhancer	JM0010566
7	Main Wiring Harness with 7-Prong Connector End	JM0020439
8	Limit Switch (for field light)	JM0036040
9	Field Light Wire	JM0020438
10	Field Light (LED, Grain Cart)(Bullet Lead Ends)	JM0000881
11	7-Prong Connecter End Only	JM0010528

WEIGH SCALE SYSTEMS Digi-Star 5-Point Scale System For Single Wheel Applications with Bolt-on Axles



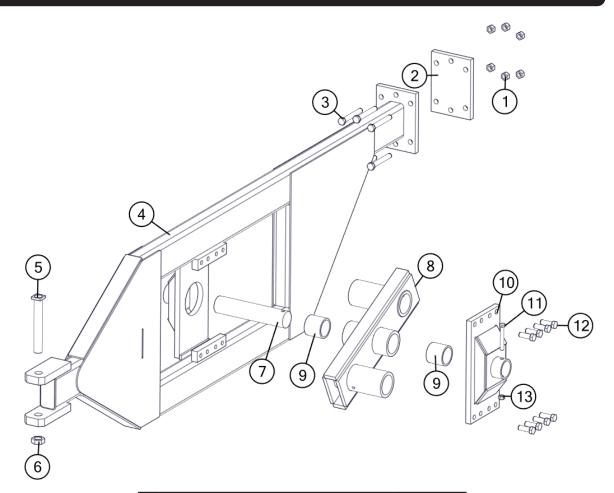
#	Description	Part. No.
1	2-7/8" Weigh Bar, 1" Pin Hole (278WB-T1)	JM0000355
2	Weigh Bar Receiver Weldment Scales 2-7/8" (WBW-278)	JM0000019
3	5 Point Junction Box (JB-5)	JM0019038
4	Battery Box with Strap (BB-2)	JM0000365
5	GT400 Indicator with Serial Port EZ-150, EZ-2000, EZ-400 (GT400)	JM0019040
5	GT 460 Indicator "Upgrade" includes serial port, downloader USB port and alpha-numeric key pad (GT-460)	JM0015453
6	2-7/8" Weigh Bar Weldment, Rear Right, Front Left, Digi-Star	JM0018226
7	2-7/8" Weigh Bar Weldment, Rear Left, Front Right, Digi-Star	JM0018228
8	Seal for Hub (37605SA)	JM0021456
9	1"-8 x 8" Gr5 Z Hex Bolt	JM0001487
10	1"-8 Gr5 Z Centerlock Hex Nut	JM0002149
11	Hub Assembly	
12	Power Cord to Battery, Digi Star (PC-1)	JM0025812
13	30' Standard Cable for J-Box to Indicator (141837)	JM0025820
14	10' Long Extension Cord to Mount Indicator in Cab (ECI-1)	JM0025815
15	20' Long Extension Cord to Mount Indicator in Cab (ECI-2)	JM0025816
16	Optional "Y" Cable to Connect both Printer and Downloader (403037)	JM0025817
17	Flashdrive memory stick-programmed (114991)	JM0025819

WEIGH SCALE SYSTEMS Digi-Star 5-Point Scale System Hardware Hardware for Single Wheel and Track System Bolt-on Axles



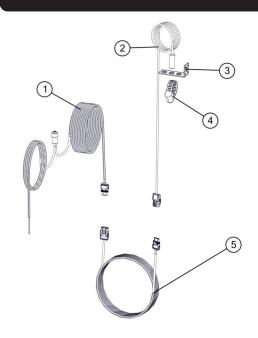
#	Description	Part. No.
1	1"-8 x 3" Gr5 Z Hex Bolt	JM0016686
2	1" Zinc Finish Lock Washer	JM0019203
3	1"-8 Gr5 Z Hex Nut	JM0002127
4	1"-8 x 5-1/2" Gr5 Z Hex Bolt	JM0002110
5	1"-8 Gr5 Z Centerlock Hex Nut	JM0002149
6	3/8"-16 Gr5 Z SF Hex Nut	JM0002152
7	Indicator Mounting Bracket, GT460 (MBI-1)	JM0019648
7	Indicator Mounting Bracket, GT400 (MBI-1S)	JM0000361
8	3/8"-16 x 1" Gr5 Z SF Hex Bolt	JM0002092
9	GT400 Indicator with Serial Port EZ-150, EZ-2000, EZ-400 (GT400)	JM0019040
9	GT 460 Indicator "Upgrade" includes serial port, downloader USB port and alpha-numeric key pad (GT-460)	JM0015453
10	1/4"-20 x 3/4" Gr5 Z Hex Bolt	JM0001507
11	Battery Box with Strap (BB-2)	JM0000365
12	1/4" x 3/4" Self Tapping Screw	JM0001570
13	5 Point Junction Box (JB-5)	JM0019038
14	1/4"-20 Gr5 Z SF Hex Nut	JM0001630

WALKING TANDEM DUAL WHEEL ASSEMBLY



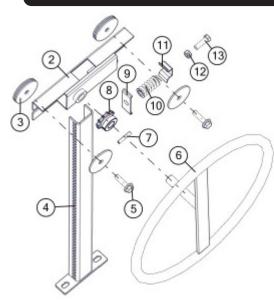
#	Description	Part. No.
1	1"-14 Gr8 YZ Hex Nut (1HNG8)	JM0019926
2	1-1/4" x 8" x 14" Clamp Plate (114814CP)	JM0010145
3	1"-14 x 7-1/2" Gr8 YZ Hex Bolt (1712G8HB)	JM0019925
4	Frame Weldment (Left)(FW-1L)	JM0019922**
4	Frame Weldment (Right)(FW-1R)	JM0010082**
5	1-3/4" x 13-1/2" Bolt (1341312HB)	JM0019981
6	1-3/4"-12 Z Gr5 Hex Jam Nut (134JN)	JM0009752
7	3-3/4" Dia. Pivot Pin (334PP)	JM0019928
8	Pivot Beam Weldment (left)(PBW-1L)	JM0010170*
8	Pivot Beam Weldment (right)(PBW-1R)	JM0010170**
9	3 3/4"ID x 4 1/2"OD Bronze Bushing (BB-334)	JM0010570
10	Pivot Center Weldment (PCW-1)	JM0010076**
11	3/4" x 5 1/2" Grade 5 Bolt (34512G5HB)	JM0015522
12	1"-14 x 3" Grade 8 Bolt (13G8B)	JM0019924
13	3/4" Lock Nut (34-LN)	JM0002147

Auto-Log Kit



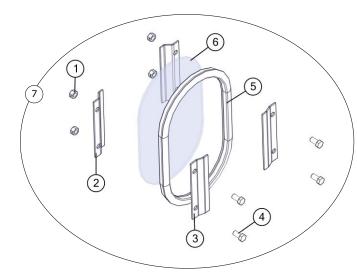
#	Description	Part. No.
1	Auto-Logger 25' Wire Bundle	JM0015445
2	Rotation Counter Sensor Wire bundle	JM0015447
3	Rotation Counter Mounting Bracket	JM0015448
4	Steel Sensor Target Screw Clamp	JM0015450
5	Rotation Counter Sensor Extension Wire Bundle	JM0015452

Door Wheel Assembly

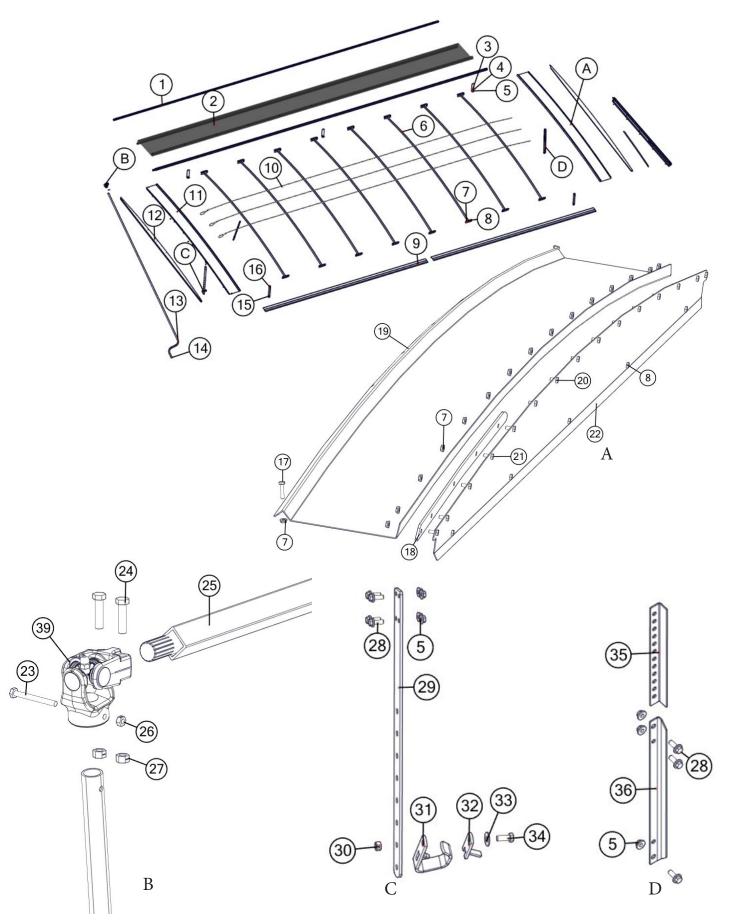


#	Description	Part. No.
1	Complete Door Wheel Assembly (20-1/4")(CWA250)	JM0018885
1	Complete Door Wheel Assembly (28")(CWA750)	JM0018879
2	Welded Guide Assembly (WGA-1034)	JM0018864
3	2-1/2" USS Flat Washer	JM0018982
4	Track Assembly (28")(TA-28)	JM0018860
5	3/8-16 x 1-1/2" Gr5 Z SF Hex Bolt (161200)	JM0001633
6	Wheel Pin & Strap Assembly (WPS-250)	JM0018871
7	1-3/8" Roll Pin (138RP)	JM0009896
8	11 Tooth Sprocket (11T40)	JM0018872
9	Galvanized Clip (GL-250)	JM0002850
10	Spring (DS-250)	JM0001688
11	Metal Clip (MC-250)	JM0002851
12	3/8"-16 Gr5 Z Hex Nut (161850)	JM0001707
13	3/8"-16 x 1-1/4" Gr5 Z Hex Bolt (161160)	JM0016675

Inspection Windows



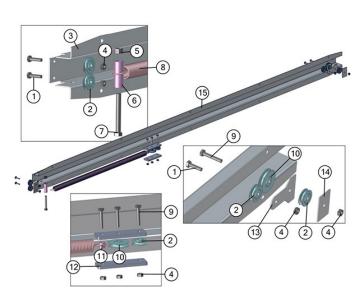
#	Description	Part. No.
1	3/8"-16 Gr5 Z Centerlock Hex Nut (161900)	JM0001512
2	Inside Window Brace (WB-4)	JM0000253
3	Outside Window Brace (WB-4B)	JM0000256
4	3/8-16 x 3/4" Gr5 Z Hex Bolt (161000)	JM0001663
5	Oval Window Grommet (112500)	JM0002454
6	Oval Window (IW-71212)	JM0002455
7	Inspection Window Kit (IWK-1)	JM0025752



Roll Tarp Assembly

#	Description	Part. No.	#	Description	Part. No.
1	1" Square Tie-Down Tube (1130, 1250)	JM0021331	18	Tarp Nylon Riser	JM0000196
1	1" Square Tie-Down Tube (1500)	JM0018962	19	Front Long Arched End Cap (1130, 1250, 1500)	JM0007259
2	Tarp with Rivets (1130,1250)	JM0021378	19	Front Short Arched End Cap (1130, 1250, 1500)	JM0007256
2	Tarp with Rivets (1500)	JM0021379	20	1/4"-20 x 1/2" Gr5 Z Hex Bolt	JM0001481
3	Tarp Stop Bracket	JM0000187	21	1/4"-20 x 5/8" Gr5 Z Hex Bolt	JM0001479
4	3/8"-16 x 2" Gr5 Z Hex Bolt	JM0001510	22	Front Long End Cap Plate (1130, 1250, 1500)	JM0007263
5	3/8"-16 Gr5 Z SF Hex Nut	JM0002152	22	Front Short End Cap Plate (1130, 1250, 1500)	JM0007261
6	Arched Tarp Bows (1130,1250,1500)	JM0021405	23	1/4"-20 x 2-1/2" Gr5 Z Hex Bolt	JM0001506
7	1/4"-20 Gr5 Z SF Hex Nut	JM0001630	24	3/8"-16 x 1-1/2" Gr5 Z Hex Bolt	JM0001659
8	1/4"-20 X 3/4" Gr5 Z Hex Bolt	JM0001507	25	1 1/4" Square Roll Tube (1130,1250)	JM0021334
9	Tightening Lip (1500) Front	JM0017842	25	1 1/4" Square Roll Tube (1500)	JM0018968
9	Tightening Lip (1500) Rear	JM0017843	26	1/4"-20 Gr5 Z Centerlock Hex Nut	JM0001505
9	Tightening Lip (1130,1250) Front	JM0021397	27	3/8"-16 Gr5 Z Centerlock Hex Nut	JM0001512
9	Tightening Lip (1130,1250) Rear	JM0021396	28	3/8"-16 x 1" Gr5 Z SF Hex Bolt	JM0002092
10	3/16" Cable (1130,1250)	JM0021408	29	Crank Holder	JM0000164
10	3/16" Cable (1500)	JM0015701	30	1/2"-13 Gr5 Z Centerlock Hex Nut	JM0001511
11	Rear Long Arched End Cap (1130, 1250, 1500)	JM0007257	31	Roll Tarp - Handle Hanger PP	JM0002967
11	Rear Short Arched End Cap (1130, 1250, 1500)	JM0007255	32	Roll Tarp - Handle Hanger Rubber Flap	JM0002551
12	Rear Long End Cap Plate (1130, 1250, 1500)	JM0007262	33	1/2" USS Flat Washer	JM0003082
12	Rear Short End Cap Plate (1130, 1250, 1500)	JM0007260	34	1/2"-13 x 1-1/4" Gr5 Z Hex Bolt	JM0001513
13	Crank with Splined U-Joint (1130, 1250, 1500)	JM0019888	35	Upper Adjustable Bow Support 13"	JM0021404
14	Yellow Cap	JM0018963	36	Lower Adjustable Bow Support 27" (1130, 1250, 1500)	JM0021403
15	Tarp Standoff	JM0001889	37	3/8"-16 Gr5 Z J-Bolt	JM0001519
16	1/4" x 1-1/2" Self Tapping Screw	JM0001571	38	Cable Clamp-Small	JM0001514
17	1/4"-20 x 1-1/4" Gr5 Z Hex Bolt	JM0016673			

Spring Return Assembly



#	Description	Part. No.
1	1/4"-20 x 1.0" Gr5 Z Hex Bolt	JM0002095
2	Roller Small	JM0002439
3	Grain Cart Spring Return Housing	JM0012974
4	1/4"-20 Gr5 Z Centerlock Hex Nut	JM0001505
5	3/8"-16 Gr5 Z Centerlock Hex Nut	JM0001512
6	Tall Plastic Spacer	JM0002444
7	3/8"-16 x 3.0" Gr5 Z Hex Bolt	JM0001666
8	Spring Return Spring	JM0000207
9	1/4"-20 x 1-1/2" Gr5 Z Hex Bolt	JM0002447
10	Roller Large	JM0012970
11	Short Plastic Spacer	JM0002442
12	Rectangular Spacer Tab	JM0012973
13	Aluminum Spacer Tab	JM0018897
14	Aluminum Spacer Square	JM0002445
15	Spring Return Assembly	JM0012965
16	Spring Return Cable	JM0012981

Service / Maintenance Record

Date	Description	Notes

For any service instructions, visit our website at www.jm-inc.com