

Gravity Wagon

250-7S
250-7SB

OPERATORS MANUAL



Rev. 4.17.2017

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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 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 safety and satisfactory operation. Record the model number and serial number of your equipment in the spaces provided:

Model No: 250-7S or 250-7SB Gravity Wagon **Serial No:** _____ **Date of Purchase:** _____

Purchased From: _____

Provide this information to your dealer to obtain correct repair parts.

TO THE OWNER:

The purpose of this manual is to assist you in operating and maintaining your header wagon 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.



WARNING Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed.



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.

General Information

BOLT TORQUE CHART

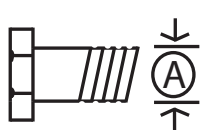
Always tighten hardware to these values unless a different torque or tightening procedure is listed for specific application.

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)



SAE SERIES TORQUE CHART



SAE Grade 2
(No Dashes)


SAE Bolt Head
Identification

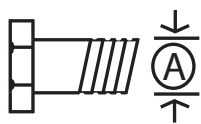


SAE Grade 5
3 Radial Dashes



SAE Grade 8
6 Radial Dashes

 Diameter (Inches)	Wrench Size	MARKING ON HEAD					
		SAE 2		SAE 5		SAE 8	
		LBS.-FT.	N-m	LBS.-FT.	N-m	LBS.-FT.	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

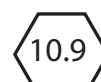


METRIC SERIES TORQUE CHART



Metric
Grade 8.8

Metric Bolt Head
Identification



Metric
Grade 10.9

Diameter & (Millimeters) Thread Pitch	Wrench Size	Grade 8.8				Grade 10.9				Diameter & (Millimeters) Thread Pitch
		COARSE THREAD				FINE THREAD				
		MARKING ON THREAD				MARKING ON THREAD				
		Metric 8.8		Metric 10.9		Metric 8.8		Metric 10.9		
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

1/2" wheel bolts should be tightened to 90 Ft.-Lbs. and 9/16" wheel bolts should be tightened to 190 ft. Lbs. During initial operation of the header wagon 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. 11L 15 and 12.5L 15 tires should be inflated to 40 psi.

Safety Rules

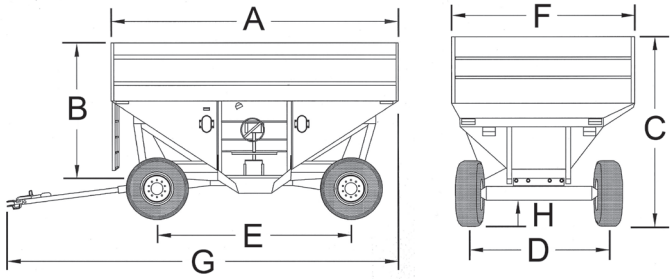


- Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be erased by an operator's single careless act. In addition, hazard control and accident prevention are dependent upon the awareness, concern, judgment, and proper training 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.
- 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 are 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.
- Make sure that the implement is fastened securely to the tractor by using the proper hitch pin, clip and safety chains.
- Before unhooking the implement from the towing unit, be sure to properly block the wheels to prevent the implement from moving.
- Do NOT exceed speeds in excess of 25 MPH. The header transport is designed for heavy loads at slow speeds. Also be sure slow moving vehicle emblem is attached to rear of wagon.
- IMPORTANT: Use caution when transporting. Be alert of the unit's overall width when approaching obstacles, such as post signs and poles, along the road. Check the transport width of the unit to ensure clearance before entering bridges.
- **COMPLY WITH ALL SAFETY WARNINGS AND CAUTIONS IN THIS MANUAL AND IN THE COMBINE OPERATORS MANUAL.**
- **WARNING: BE SURE ALL LIGHTS ARE WORKING PROPERLY BEFORE HIGHWAY TRAVEL.**

Specifications



	250-7S	250-7SB	385SD	440SD	540SD	680SD	760SD
A	10'-3"	10'-3"	12'-4"	15'-0"	15'-0"	16'-6"	16'-6"
B	4'-9"	6'-0"	7'-2"	6'-9"	7'-10"	7'-11"	8'-7"
C	6'-7"	8'-4"	9'-2"	8'-11"	10'-0"	10'-2"	10'-10"
D	5'-8"	6'-2"	6'-10"	7'-4"	7'-4"	7'-8"	7'-8"
E	7'-4"	7'-9"	8'-7"	10'-4"	10'-4"	11'-2"	11'-2"
F	7'-3"	7'-3"	7'-10"	8'-4"	8'-4"	9'-6"	9'-6"
G	15'-7"	16'-0"	17'-11"	20'-8"	20'-8"	24'-0"	24'-0"
H	1'-5"	1'-7"	1'-3"	1'-3"	1'-3"	1'-5"	1'-5"

Wagon Specifications	250-7S	250-7SB	385SD	440SD 540SD	680SD 760SD
Capacity - Box*	165 Bushels	250 Bushels	385 Bushels	440 or 540 Bushels	680 or 760 Bushels
Door Width	30"	30"	36"	48"	48"
Chute Height	15"	20"	17"	Adjustable 14" to 19"	Adjustable 14" to 19"
Hopper Construction	14 GA Steel	14 GA Steel	14 GA Steel	12 GA Steel	12 GA Steel
Understructure	3" x 6" Runners	3" x 6" Runners	3" x 6" Runners	3" x 6" Runners	3" x 6" Runners
Taillights	Standard	Standard	Standard	Standard	Standard
Front Ladder	Standard	Standard	Standard	Standard	Standard
Center Dump Deflector	N/A	N/A	Optional	Optional	Optional
Capacity - Running Gear	8 Ton	10 Ton	13 Ton	16 Ton	24 Ton
Spindles	1 3/4" Diameter	2" Diameter	2 1/2" Diameter	3" Diameter	3 3/8" Diameter
Wheels	15 x 8 - 6 Bolt	15 x 10 - 6 Bolt	22.5x8.25 or 22.5x13.5 - 8 Bolt	22.5x13.5 - 8 Bolt	22.5x13 - 10 Bolt
Tires	11L-15	12.5L-15	11-22.5 or 15-22.5	15-22.5 or 16.5-22.5	16.5-22.5 or 18-22.5
Hydraulic Brakes	N/A	N/A	Opt. 2-Whl Drum	Optional 2-Whl Drum	Optional 4-Whl Drum
Weight (complete unit)	1,760 lbs.	2,200 lbs.	3,640 lbs.	4,850 lbs. or 5,250 lbs.	6,800 lbs. or 7,050 lbs.

* Bushel capacity measured with #2 corn at 15% moisture (56 lbs. test weight)

Model USA-15 Specifications	
Diameter	6 inch
Length	15'-0"
Flighting	Steel or Poly-Cup Plastic
Hopper	Adjustable to fit almost any box
Auger Tube	14 GA seamless steel tube
Winch	Standard
Auger Pivot	Patented Uni-Swivel Design
Sump Design Hopper	Yes
Unloading Height	11'-0" (maximum); 7'-0" (minimum)
Height of Auger in Saddle	10'-0" (on 385 box to steel spout)
Maximum Swing Left and Right	43'-0" (with 3-Stage Telescoping Spout)
Maximum Unloading Distance Out	19'-0" (with 3-Stage Telescoping Spout)
Discharge Rate (corn/soybeans)*	15 bushels per minute
Discharge Rate (fertilizer)*	1,000 lbs. per minute

* Your rate may differ due to the quality of the material, the auger unloading height angle, and variable tractor hydraulic output. NOTE: Always operate the auger system with a tractor hydraulic requirement of 9 gpm (minimum) to 15 gpm (maximum) (2,250 psi)

GUARANTEE

J. & M. MANUFACTURING CO. guarantees against any faulty 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.

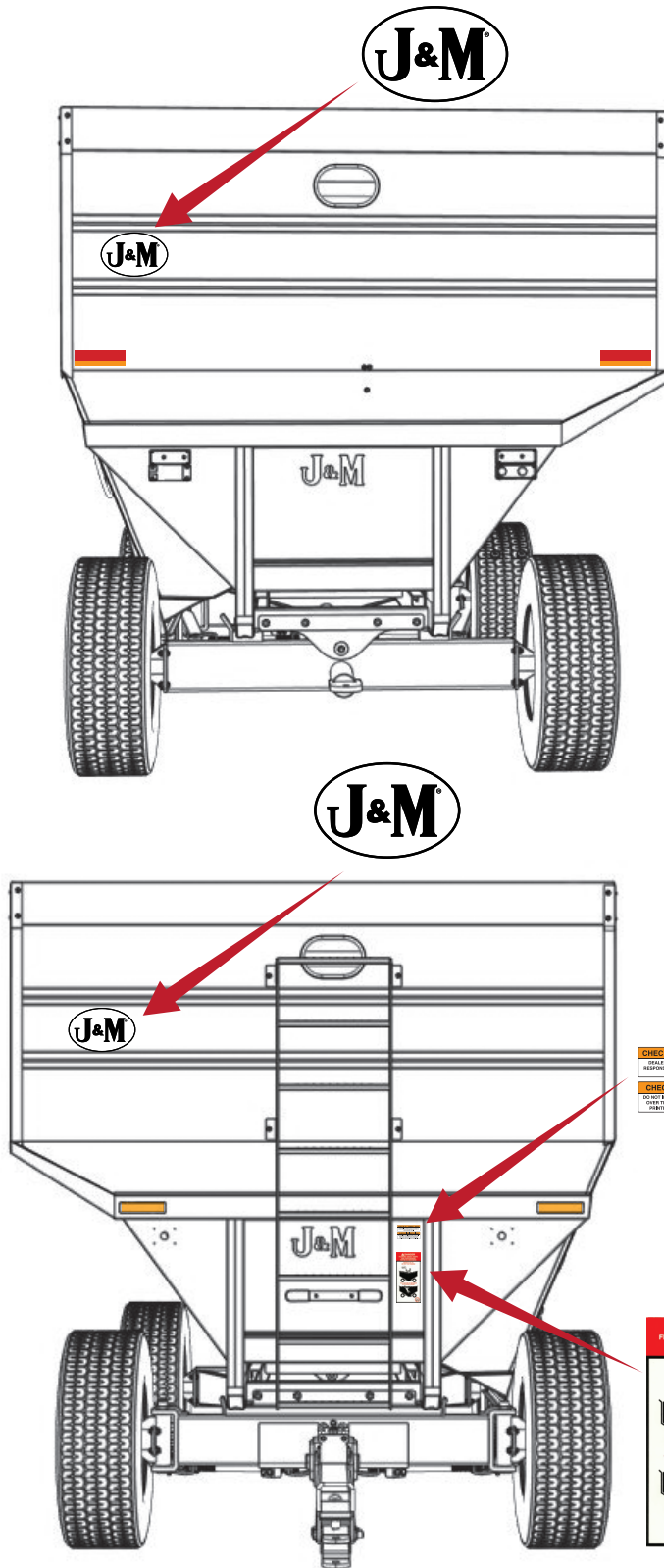
AugerMate Specifications	
Engine	Briggs & Stratton or Honda
Starter	Manual Pull or Electric
Engine Size	8 horsepower
Oil Reservoir	5 gallon
Mounting Frame	Standard

Specifications are subject to change without notice or obligation.

* Registered Trademark of J. & M. Mfg., Co. Inc.

Safety Signs

⚠ ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! ⚠
Replace Immediately If Damaged or Missing



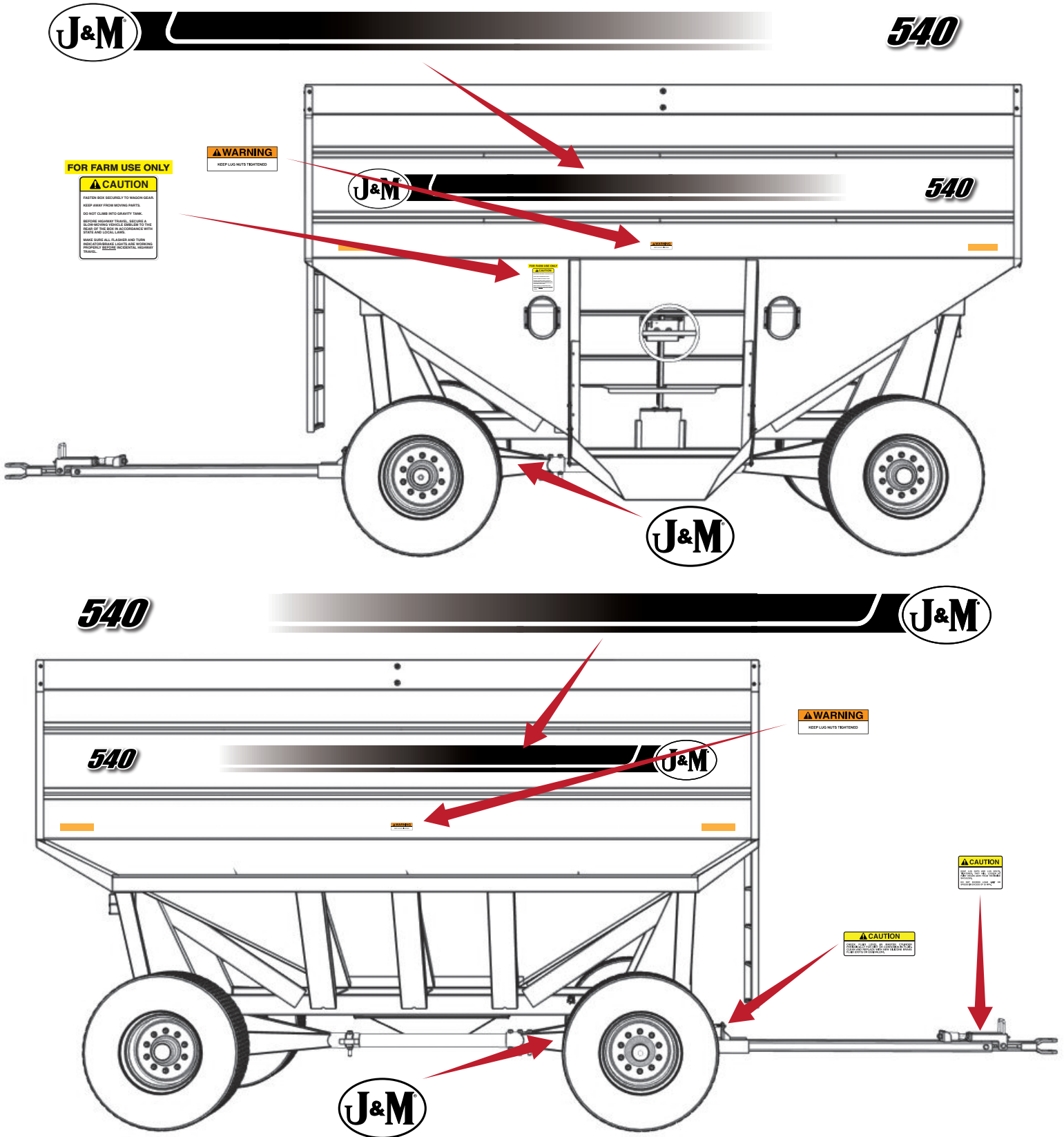
Description	Part. No.
For Farm Use Only	JM0018038
www.jm-inc.com	JM0019239
Orange Reflector	JM0009944
Red Reflector	JM0009945
Yellow Reflector	JM0009946
Keep Lug Nuts Tightened	JM0010150
J&M Large	JM0015151
Caution Tighten Lug Nuts Paint	JM0019220
Caution Check Fluid Level	JM0019229
Check Tire Inflation	JM0018041
Check All Wheel Nuts	JM0018043
Danger Flowing Grain Traps	JM0019223
Caution Fasten Box Securely	JM0019228
Gravity Wagon Model Number	JM0019236
J&M Oval Small	JM0010179
Running Gear Model Number	JM0019238

CHECK ALL WHEEL NUTS
 FAILURE TO MAINTAIN PROPERLY TIGHTENED WHEEL NUTS COULD BE
 A CAUSE OF A FATAL ACCIDENT.

CHECK TIRE INFLATION
 DO NOT RIDE AT SPEEDS ABOVE THOSE LISTED
 ON THE INFORMATION PLATE PRINTED ON THE SIDE OF THE TIRE.



Safety Signs



*Model 540 Shown

WARNING

BE CERTAIN THAT ALL POWER IS SHUT OFF BEFORE SERVICING THE GRAVITY BOX.

Before the gravity box is put into service:

Has the track assembly (opens door) been lubricated for less wear on the sprocket and track and for easier door operation.

Has the SMV (Slow Moving Vehicle) Emblem been positioned with a point of the triangle upward and as near to the rear and centered or as near to the left of center of the unit as practicable? Is it located two to ten feet above the ground measured from the lower edge of the emblem?

Has the gravity box been properly attached to the running gear? If no rocking bolster is used, bolt all four corners (use 1/2" bolts provided) of the gravity box runners to the running gear. (If the box is used in rough terrain, bolt a minimum of two corners and chain (or cable) the remaining corners to allow more box flexibility.

Have all braces, bolts, nuts, lug bolts, and lug nuts been checked to ensure that they are properly fastened?

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

Do the lights work properly? Are all reflective decals clean and visible? Are they positioned correctly?

BRAKING SYSTEM REQUIREMENTS

WARNING

For towed equipment WITHOUT brakes, the following is recommended:

Do NOT tow equipment that does not have brakes at speeds over 32 km/h (20 mph); or that, when fully loaded, has a mass (weight) over 1.5t (3300 lb) and more than 1.5 times the mass (weight) of the towing unit.

For towed equipment WITH brakes, the following is recommended:

Do NOT tow equipment that has brakes at speeds over 40 km/h (25 mph); or that, when fully loaded, has a mass (weight) more than 4.5 times the mass (weight) of the towing unit.

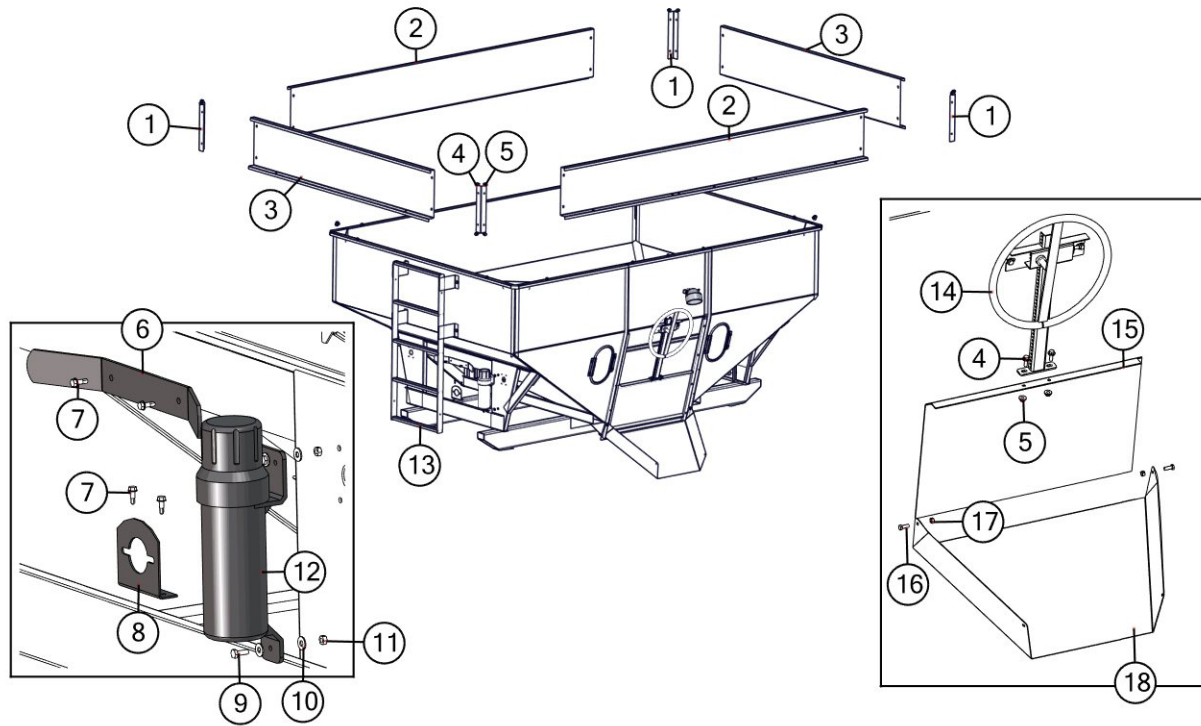
WARNING

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

After hauling corrosive materials such as fertilizers, be sure to wash out the grain tank to prevent premature rusting. Bare spots on metal should be primer coated before applying the outer surface paint.

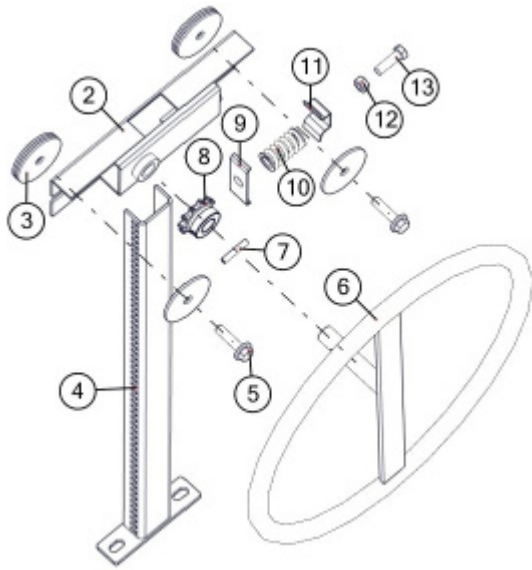
Check the box periodically for cracks in welds and for other structural damage. Have cracked welds fixed immediately. Failure to do so could result in extensive damage and greatly reduce the life of the gravity box.

Shell Assembly



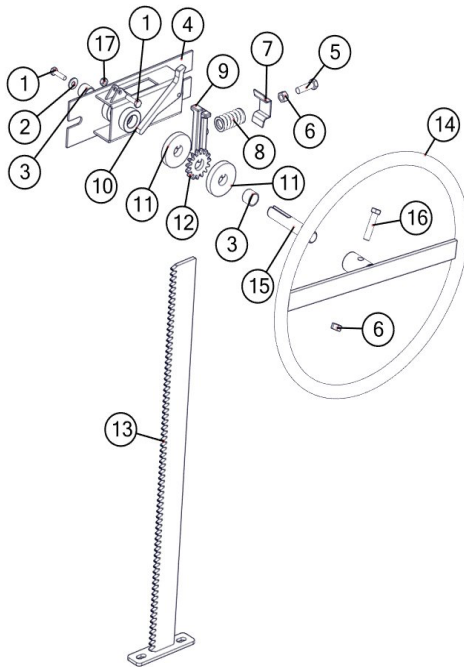
#	Description	Part. No
1	Corner for 15" Boards (C-15)	JM0017240
2	Sideboard 15" x 10" (S-1510)	JM0017227
3	Endboard 15" x 7" (E-157)	JM0017225
4	3/8"-16 x 1" Gr5 Z SF Hex Bolt (381-FB)	JM0002092
5	3/8"-16 Gr5 Z SF Hex Nut (38-FN)	JM0002152
6	Wire Harness Storage Bracket (WHB-1)	JM0001438
7	1/4" x 3/4" Self Tapping Screw (14STS)	JM0001570
8	Front Angle Bracket (AB-1F)	JM0017239
9	1/4"-20 x 3/4" Gr5 Z Hex Bolt (1434-HHMB)	JM0001507
10	1/4" USS Flat Washer (14-W)	JM0003090
11	1/4"-20 Gr5 Z Centerlock Hex Nut (14HN)	JM0001505
12	Manual Canister (OMST-1)	JM0010115
13	Ladder, 5-Rung (SL-5)	JM0022285
14	Rack Assembly w/ Short Track (CWA-50)	JM0018884
15	Door (D-250)	JM0017247
16	3/8"-16 x 1" Gr5 Z Hex Bolt (381-HB)	JM0001592
17	3/8"-16 Gr5 Z Centerlock Hex Nut (38LN)	JM0001512
18	Grain Chute (GC-30)	JM0017231

Door Wheel Assembly (2015 & Older)



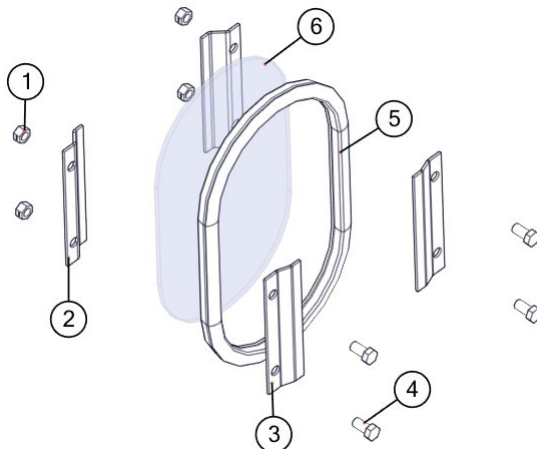
#	Description	Part. No.
1	Complete Door Wheel Assembly (20-1/4")(CWA250)	JM0018884
1	Complete Door Wheel Assembly (28")(CWA750)	JM0018879
2	Welded Guide Assembly (WGA-1034)	JM0018864
3	2-1/2" USS Flat Washer	JM0018982
4	Track Assembly (20-1/4")(TA-2014)	JM0018861
5	3/8-16 X 1-1/2" Gr5 Z SF Hex Bolt (161200)	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	Small Compression 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

Door Wheel Assembly (2016 & Newer)



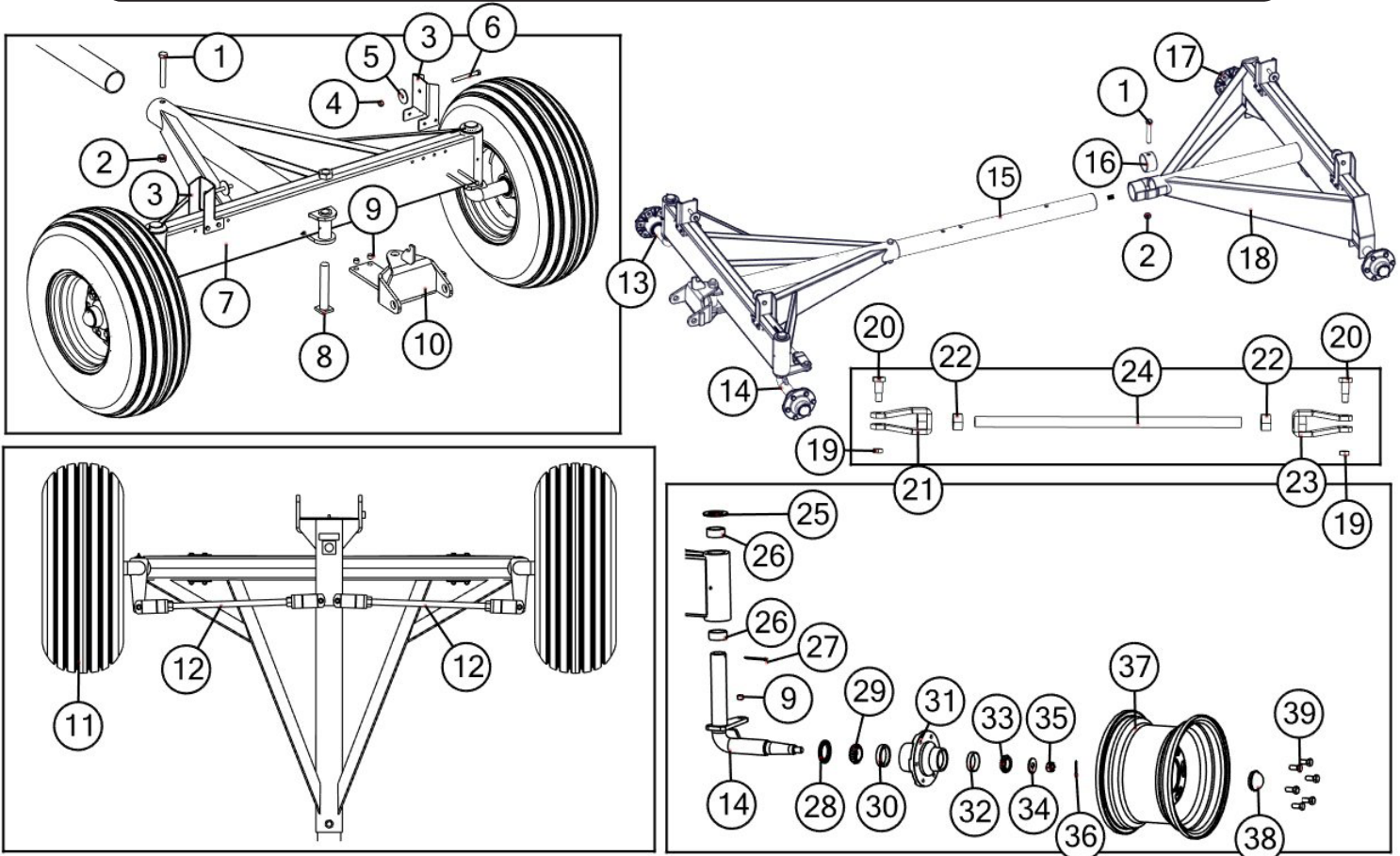
#	Description	Part. No.
1	1/4"-20 X 1" Gr5 Z Hex Bolt	JM0002095
2	1/4" USS Flat Washer	JM0003090
3	.754 ID X .874 OD X .625 LG Bronze Bushing (BB-34)	JM0009455
4	Nylon Guided Rack Housing Weldment	JM0030635
5	3/8"-16 X 1-1/4" Gr5 Z Hex Bolt	JM0016675
6	3/8"-16 Gr5 Z Hex Nut	JM0001707
7	Metal Clip (MC-250)	JM0002851
8	Small Compression Spring	JM0001688
9	Nylon Track Guide	JM0029354
10	Flip Lock	JM0029459
11	Keyway Washer	JM0029454
12	15 Tooth Sprocket - 3/4" Bore w/ Key	JM0029455
13	Nylon Guided Rack Track 20-1/4" Weldment	JM0030651
14	Rack Wheel Weldment	JM0028898
15	Stub Shaft - 3/4" x 4-1/8" with Threaded End	JM0029440
16	Complete Nylon Door Wheel Assembly (20-1/4")	JM0030652
16	Complete Nylon Door Wheel Assembly (27-1/2")	JM0029460

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 (62095-7)	JM0002454
6	Oval Window (IW-71212)	JM0002455
7	Inspection Window Kit (IWK-1)	JM0025752

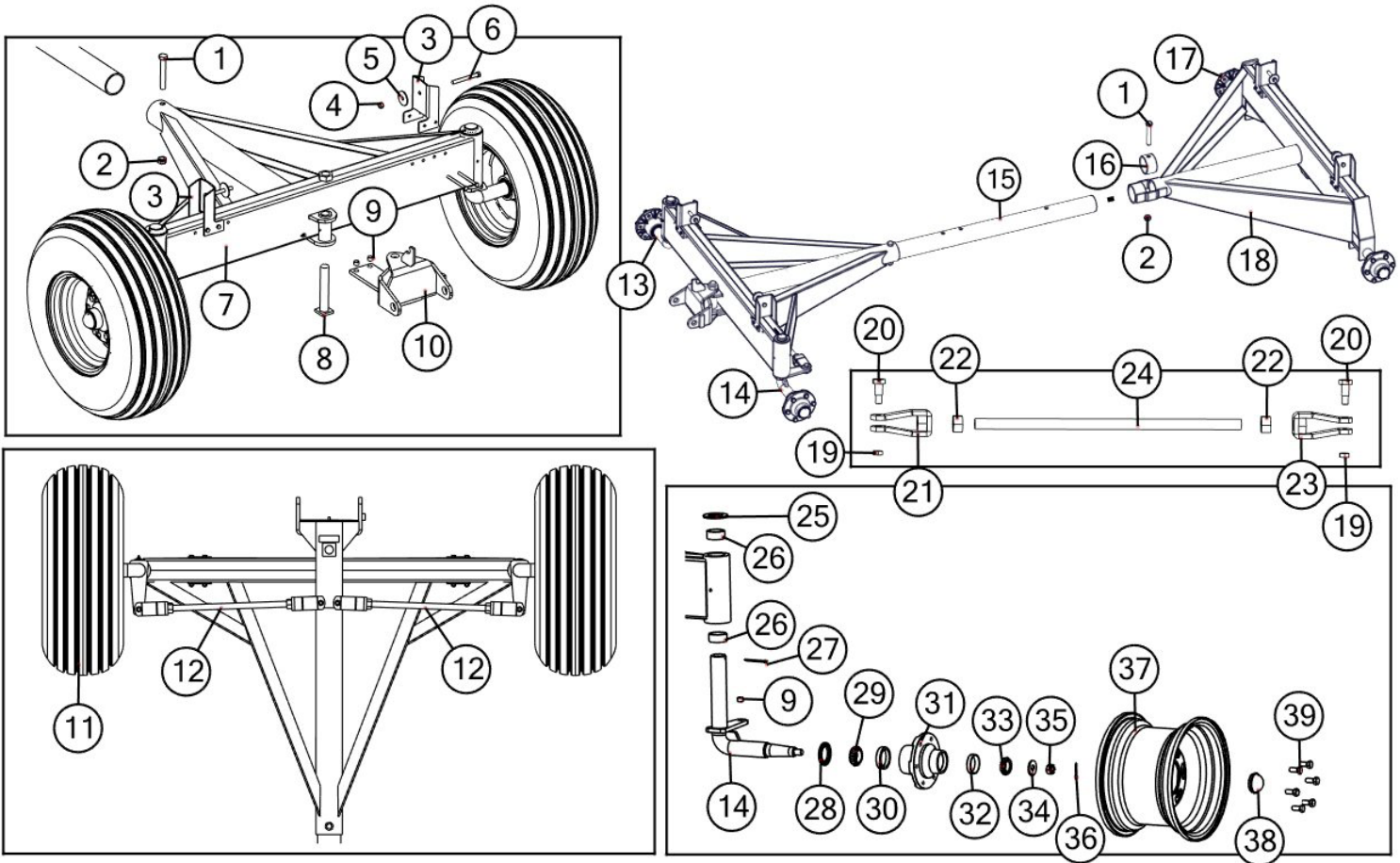
8 Ton Running Gear



#	Part. No.	Description
1	3/4"-10 x 5" Gr5 Z Hex Bolt	JM0009997
2	3/4"-10 Gr5 Z Centerlock Hex Nut	JM0002147
3	8 Ton Standard	JM0033370
4	1/2"-13 Gr5 Z Hex Nut	JM0002124
5	1/2" ID x 2-1/8" OD Flat Washer - 1/8" Thick	JM0019081
6	1/2"-13 X 4-1/2" Gr5 Z Hex Bolt	JM0008548
7	8 Ton Front Axle Weldment	JM0033366
8	10 Ton Vertical Hitch Pin Weldment	JM0027665
9	1-1/4"-7 Gr5 Z Hex Nut	JM0001700
10	8 Ton Hitch Swivel Weldment	JM0027637
11	Tire 11L-15 - 10ply	JM0027743
12	8 Ton Ty Rod - Right and Left Threads	JM0033362
13	Spindle & Arm Weldment, Right	JM0033364
14	Spindle & Arm Weldment, Left	JM0033363
15	8 Ton Center Coupling Pole	JM0033369
15	Extended Coupler Pole, 113" Long	JM0033388
16	Coupling Pole Ring	JM0033371
17	Rear Spindle, 8 Ton	JM0033368
18	8 Ton Rear Axle Weldment	JM0033367
19	Shoulder Bolt Nut 5/8"	JM0003185

#	Part. No.	Description
20	5/8" dia. x 1" LG Shoulder Bolt	JM0002408
21	Ten Ton Clevis Weldment - Right	JM0030149
22	7/8"-14 Gr5 Z Hex Nut	JM0025714
23	Ten Ton Clevis Weldment - Left	JM0003168
24	8 Ton Tie Rod - Right and Left Threads	JM0033362
25	Machine Bushing, (top of spindle)	JM0033365
26	1-3/4" ID Bronze Bushing	JM0002244
27	3/16" x 2-1/2 Cotter Pin	JM0027684
28	Grease Seal, 8 Ton	JM0026572
29	Tapered Single Bearing LM48548	JM0019225
30	Inner Large Cup	JM0003221
31	Hub with Races, Studs and Nuts, 7-8 Ton	JM0026566
32	Tapered Single - Cup LM48510	JM0026565
33	Tapered Single Bearing LM57048	JM0019563
34	3/4" USS Flat Washer	JM0010006
35	3/4"-10 Gr5 Z Castle Hex Nut	JM0002130
36	.156 X 1-1/2" Cotter Pin	JM0014348
37	Wheel Rim, 6 hole 15" x 8"	JM0026801
38	Dust Cap, 6-10 Ton	JM0026567
39	Lug Nut for Hub, 6-8 Ton	JM0003062
40	Studs for Hub, 6/8 Ton	JM0019559

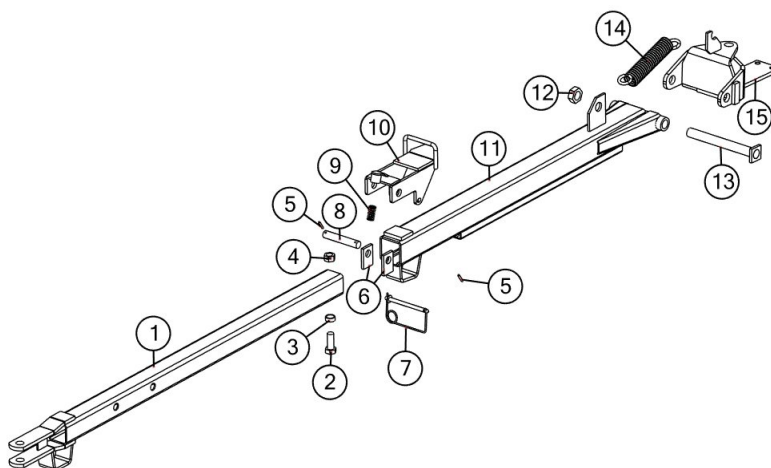
10 Ton Running Gear



#	Part. No.	Description
1	3/4"-10 x 5" Gr5 Z Hex Bolt	JM0009997
2	3/4"-10 Gr5 Z Centerlock Hex Nut	JM0002147
3	10 Ton Standard	JM0027694
4	1/2"-13 Gr5 Z Hex Nut	JM0002124
5	1/2" ID x 2-1/8" OD Flat Washer - 1/8" Thick	JM0019081
6	1/2"-13 X 4-1/2" Gr5 Z Hex Bolt	JM0008548
7	10 Ton Front Axle Weldment	JM0027632
8	10 Ton Vertical Hitch Pin Weldment	JM0027665
9	1-1/4"-7 Gr5 Z Hex Nut	JM0001700
10	10 Ton Hitch Swivel Weldment	JM0027637
11	Tire 12.5SL 12PR Impl. -1 TL	JM0027744
12	10 Ton Ty Rod - Right and Left Threads	JM0027648
13	2" Bent Spindle with Spindle Arm Weldment Right	JM0027661
14	2" Bent Spindle with Spindle Arm Weldment Left	JM0027659
15	10 Ton Center Coupling Pole	JM0027671
15	Extended Coupler Pole, 110-3/4" Long	JM0033387
16	Coupling Pole Ring	JM0027675
17	Rear Spindle, Straight, 2" x 14-1/4" - 10 Ton	JM0027624

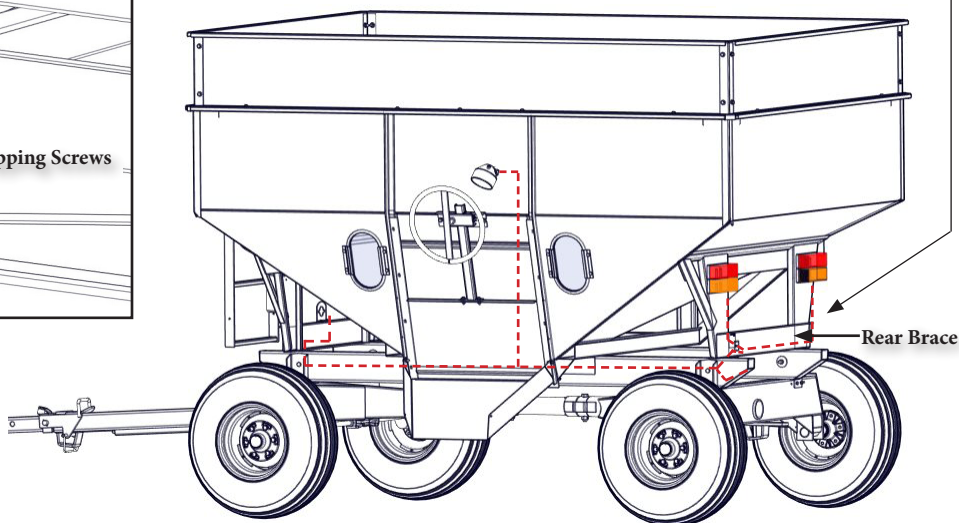
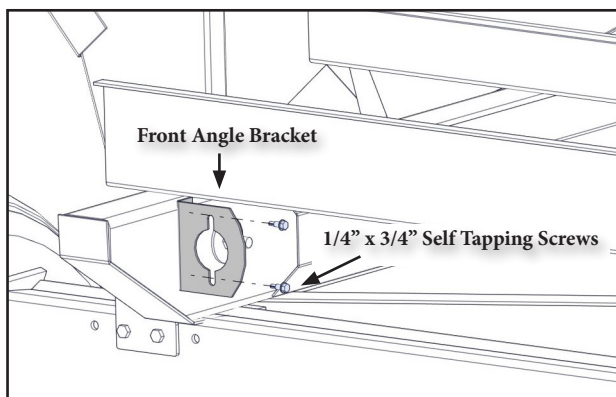
#	Part. No.	Description
18	10 Ton Rear Axle Weldment	JM0027621
19	Shoulder Bolt Nut 5/8"	JM0003185
20	5/8" dia. x 1" LG Shoulder Bolt	JM0002408
21	Ten Ton Clevis Weldment - Right	JM0030149
22	7/8"-14 Gr5 Z Hex Nut	JM0025714
23	Ten Ton Clevis Weldment - Left	JM0003168
24	10 Ton Tie Rod - Right and Left Threads	JM0027648
25	Machine Bushing, 2" ID (top of spindle)	JM0027685
26	2 ID x 2-3/8" OD x 1" LG Bronze Bushing	JM0027653
27	3/16" x 2-1/2 Cotter Pin	JM0027684
28	Grease Seal, 10 Ton	JM0026617
29	Tapered Single Bearing- LM501349	JM0019225
30	Cup, Small (Outer) 15 Ton	JM0019227
31	G35-6 Hub	JM0026614
32	Tapered Single - Cup LM48510	JM0026565
33	Tapered Single Bearing- LM48548	JM0019563
34	3/4" USS Flat Washer	JM0010006
35	3/4"-10 Gr5 Z Castle Hex Nut	JM0002130
36	.156 X 1-1/2" Cotter Pin	JM0014348
37	15 x 10 Wheel	JM0027739
38	Dust Cap, 6-10 Ton	JM0026567

Tongue Assembly

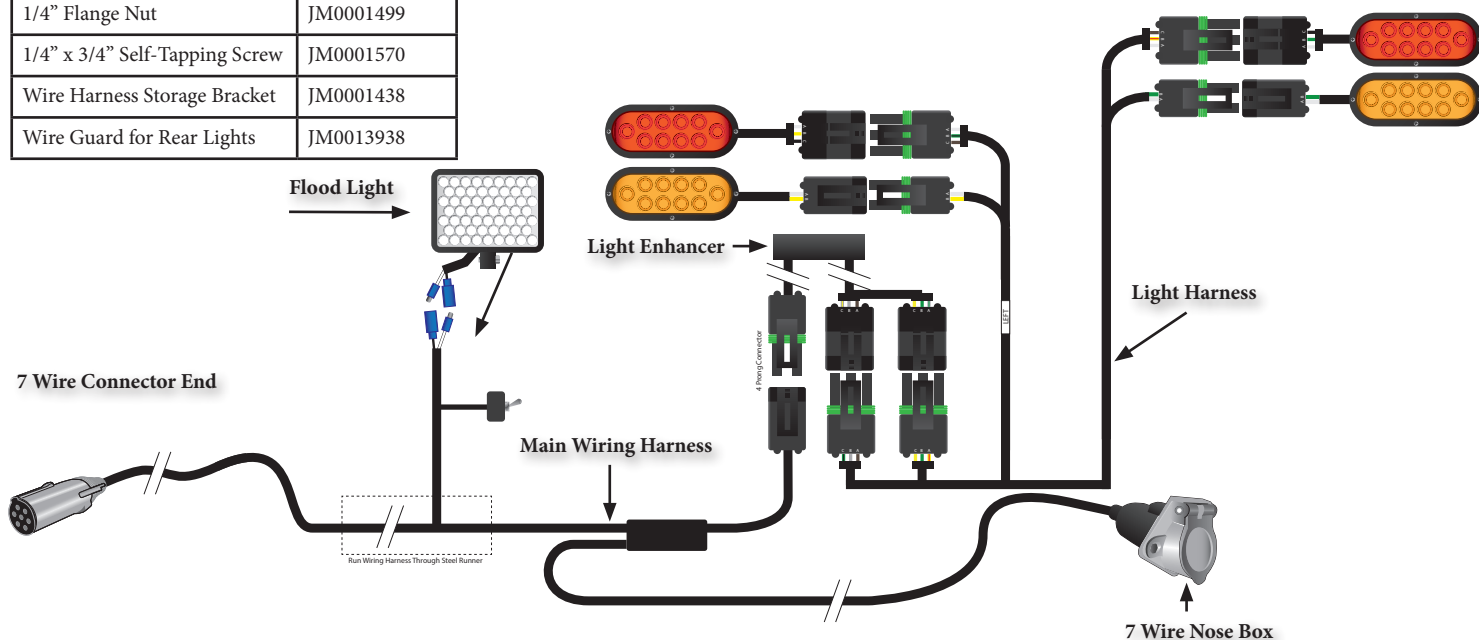


#	Description	Part. No.
1	Inner Tongue - new style (square latch), 6-10 Ton	JM0027696
2	7/8"-9 x 2-1/4" Gr5 Z Hex Bolt	JM0016685
3	7/8"-9 x 2-1/4" Gr 5 Z Hex Bolt with Spacer	JM0027776
4	7/8"-9 Gr5 Z Centerlock Hex Nut	JM0002148
5	1/4" x 1-3/8" Roll Pin	JM0009896
6	Spacer Blocks, 2-1/2", 6-15 Ton	JM0003032
7	1/2" x 7" Lynch Pin	JM0030476
8	Latch Pivot Shaft (1" x 5 3/4")	JM0027732
9	Compression Spring (1" x 1 3/4") for Door Assembly & New style Tongue Latch	JM0001688
10	Flapper Weldment (New Style)	JM0030414
11	Outer Tongue - new style (square latch), 6-10 Ton	JM0027695
12	1-1/4"-7 Gr5 Hex Nut	JM0001700
13	10 Ton Horizontal Hitch Pin Weldment Tongue Bolt, 1 1/4" Rd x 11 3/4	JM0027667
14	Large Tongue Spring, 6-10 Ton	JM0027734
15	Hitch Weldment, 10 Ton	JM0027637
15	Hitch Weldment, 8 Ton	JM0030131
16	Complete Tongue Assembly (TT-610), less hitch weldment	JM0033407

Light Harness Guide



Description	Part. No.
Red Light LED	JM0034389
Amber Light LED	JM0034392
Light Harness	JM0027773
Light Enhancer	JM0010566
Main Wiring Harness	JM0027774
Flood Light	JM0019410
Pig Tail Assembly	JM0017239
1/4" x 1" Carriage Bolt	JM0002169
1/4" Flange Nut	JM0001499
1/4" x 3/4" Self-Tapping Screw	JM0001570
Wire Harness Storage Bracket	JM0001438
Wire Guard for Rear Lights	JM0013938



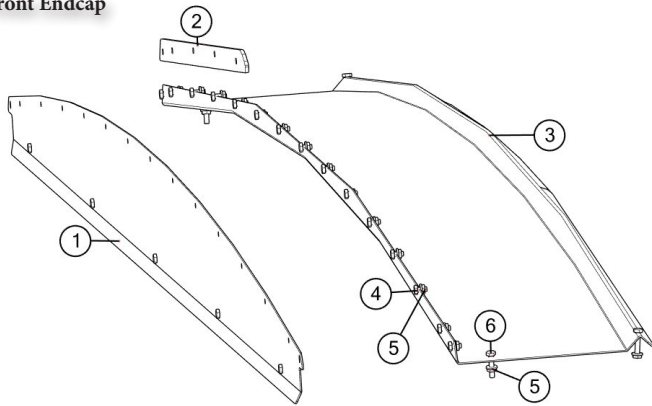
1. Route Main Harness through steel runner or conduit from front to back.
2. Mount Red and Amber lights onto the rear legs.
3. Mount Light Enhancer on inside of rear brace. (Connects both rear legs)
4. Attach Light Harness to lights and Light Enhancer.
5. Mount Rear Angle Bracket.
6. Attach 7 Wire Nose Box to Rear Angle Bracket.
7. Connect Main Wiring Harness to Light Enhancer.
7. Run Black & White wires to Flood Light. If not installing Flood Light store wires in conduit or steel runner.
8. Attach 7 Wire Connector End to Front Angle Bracket.
9. Test Lights.

Roll Tarp

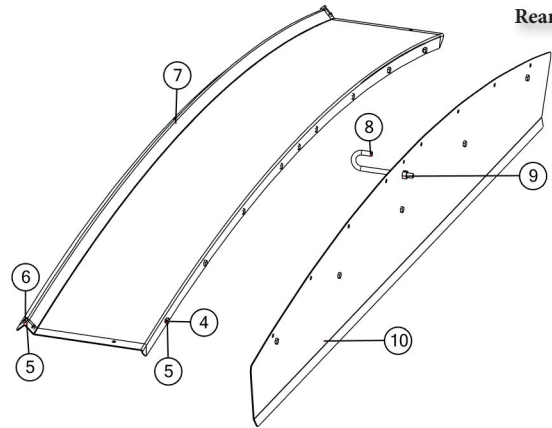
#	Description	Part. No.
1	Front Arched End Plate (250 Box - 84")	JM0001545
2	Tarp Nylon Riser	JM0000196
3	Front Arched Endcap (250 Box - 84")	JM0001543
4	1/4"-20 x 1/2" Gr5 Z Hex Bolt	JM0001481
5	1/4"-20 Gr5 Z Serrated Flange Hex Nut	JM0001630
6	1/4"-20 x 5/8" Gr5 Z Hex Bolt	JM0001479
7	Back Arched Endcap (250 Box - 84")	JM0001546
8	3/8"-16 Gr5 Z J-Bolt	JM0001519
9	3/8"-16 Gr5 Z Centerlock Hex Nut	JM0001512
10	Rear End Panel for 250 Roll Tarp	JM0001549
11	1/4" ID, 3/4" OD Z Flat Washer	JM0003090
12	Tarp Standoff	JM0001889
13	1/4" x 1 1/2" Self Tapping Screw	JM0001571
14	Box Tarp Prop	JM0000917
15	3/8"-16 x 1" Gr5 Z Serrated Flange Hex Bolt	JM0002092
16	3/8"-16 Gr5 Z Serrated Flange Nut	JM0002152
17	3/8"-16 x 1-1/2" Gr5 Z Hex Bolt	JM0001659
18	1/4"-20 Gr5 Z Centerlock Hex Nut	JM0001505
19	Universal Joint - Roll Tarp	JM0001517
20	3/8"-16 Gr5 Z Centerlock Hex Nut	JM0001512
21	1/4"-20 x 2-1/2" Gr5 Z Hex Bolt	JM0001506
22	Adj. Bar for Crank Holder for Gravity Box True-Lock Roll Tarp	JM0000815
23	Handle Hanger Rubber Flap	JM0002551
24	Pinless Crank Holder (zinc plated)	JM0002967
25	1/2" Z Flat Washer	JM0003082
26	1/2"-13 x 1 1/4" Gr5 Z Hex Bolt	JM0001513
27	1" x 120" Square Tie-Down Tube for Roll Tarp (250 Gravity Box)	JM0001531
28	Tarp	JM0001589
29	1 1/4" x 126" Square Roll Tube for Roll Tarp (250 Gravity Box)	JM0027765
30	3/16" Cable x 126" Long (250-7S)	JM0001525
31	Tightening Lip x 123" (250 Box)	JM0017219
32	Bow for 250 Roll Tarp	JM0001583
33	Crank handle	JM0002907
34	Yellow Cap	JM0018963
35	3/8"-16 x 2" Gr5 Z Hex Bolt	JM0001510
36	Tarp Stop	JM0000187
37	1/8" Cable Clamp	JM0001514

Roll Tarp

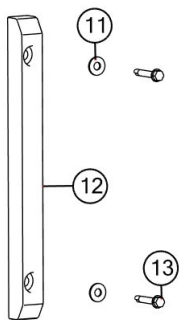
Front Endcap



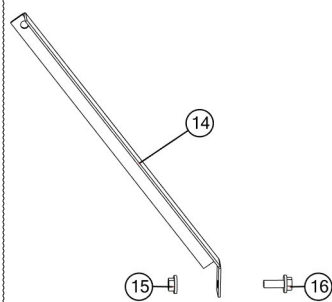
Rear Endcap



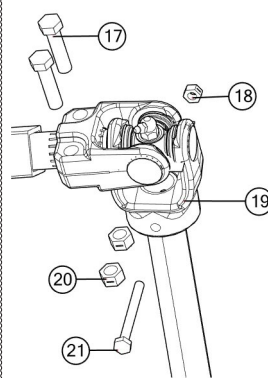
Tarp Stand-Off



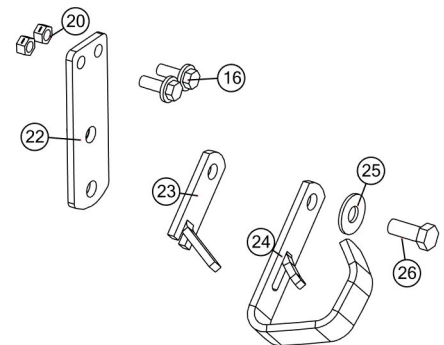
Bow Support



Crank Handle U-Joint



Crank Handle Holder



Tarp Assembly

