



48-SERIES

**4810, 4815, 4825 & 4830
DUMP CARTS**

OPERATOR'S MANUAL

THIS MANUAL TO ACCOMPANY MACHINE

PART NO. 48-OM-01
PRINTING DATE: MARCH 2017

WARRANTY POLICY

KELLEY MANUFACTURING COMPANY (KMC) warrants that all goods sold to the original purchaser of any KMC product shall be free of any defects in material and workmanship if used under normal operating conditions. The warranty period begins on the date of purchase by the retail customer and ends twelve (12) months thereafter. KMC's sole responsibility is to repair and/or replace the defective part or parts at no cost to purchaser. This remedy is the **SOLE AND EXCLUSIVE REMEDY** of purchaser.

The purchaser must fill out and return the warranty registration form found in the front of the operator's manual. Failure to return the warranty registration form within 30 days shall result in the goods being sold "AS IS", and all warranties shall be excluded.

This warranty shall not apply to those items that are by nature worn in normal service, including but not limited to belts, springs, teeth, chains, etc. Items such as tires, tubes, and gearboxes and all other items warranted by the original manufacturer are warranted only to the extent of their individual manufacturer warranty, and KMC is not warranting any of said items. All warranty claims must be made through a KMC licensed dealer, and a warranty form request must be submitted to KMC within 30 days of failure or the warranty provision shall be unenforceable against KMC.

No agent or person has authority to change or add to this warranty as written.

THE ABOVE IS THE ONLY WARRANTY MADE BY KMC AND IS MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. KMC MAKES NO WARRANTY OF MERCHANTABILITY AS TO ANY GOODS MANUFACTURED BY KMC AND FURTHER, KMC DOES NOT WARRANT ANY SUCH GOODS AS SUITABLE FOR ANY PARTICULAR PURPOSE TO THE RETAIL CUSTOMER. THE SUITABILITY OF GOODS FOR ANY PURPOSE PARTICULAR TO THE CUSTOMER IS FOR THE CUSTOMER, IN HIS SOLE JUDGEMENT, TO DETERMINE. KMC FURTHER MAKES NO WARRANTIES WITH RESPECT TO ITS MANUFACTURED GOODS THAT WOULD NORMALLY BE DISCLOSED BY AN EXAMINATION. THIS IS THE FULL AND FINAL EXPRESSION OF ALL WARRANTY LIABILITY OF KMC. NO OTHER WARRANTY, EITHER EXPRESSED OR IMPLIED, SHALL BE ENFORCEABLE AGAINST KMC.

Kelley Manufacturing Co.

80 Vernon Drive / Zip 31794

P.O. Drawer 1467 / Zip 31793

Tifton GA

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4810 & 4815 DUMP CART



4825 & 4830 DUMP CART

TO THE PURCHASER

This **KMC Dump Cart** has been carefully designed and manufactured to give years of dependable service. In order to operate it efficiently and maintain it properly, please read the instructions within this manual thoroughly.

While reading the manual through, you will notice that it is divided into sections which clearly explain the assembly and operations of each component of this machine. A Table of Contents is also provided for quick reference to these sections.

Some components of this machine are labeled left or right. The notations are determined facing the direction the machine will travel in use.



This safety alert symbol is used throughout this manual to identify safety messages. When you see this symbol, read the message which follows as it will advise you of possible injury.

After reading this Operator's Manual, Please keep it for reference each season.

To insure procurement of the proper repair parts, please record your machine's Serial Number and Purchase Date as shown below:

Model No. _____

Serial No. _____

Purchase Date _____

Retail Customers Responsibility Under The KMC Warranty

The retail customer's responsibilities are:

1. To read the Operator's Manual and operate the **Dump Cart** in accordance with instructions given in the manual.
2. To inspect the **Dump Cart** daily, lubricate as specified and repair or replace parts as needed, especially when continued use would cause damage or excess wear to other parts.
3. To maintain and keep in place all safety shields and devices.
4. When Warranty Service is necessary, it is the customer's responsibility to deliver the machine to the KMC dealer from which it was purchased, Warranty repairs should be submitted to the dealer within **thirty (30)** days of failure.
5. Dealer travel to the machine or hauling the machine to his shop for the purpose of performing warranty service is not allowed under KMC warranty. It is a cost to be paid for by the retail customer. Any arrangement whereby the dealer agrees to absorb all or part of this cost is strictly between the dealer and retail customer.

SAFETY PROCEDURES

Safety and performance are the primary objectives of the designers of KMC equipment. Safety features have been incorporated into this machine where possible and warnings given in other areas. For your safety, **PLEASE** read and observe the following safety procedures.

1. **READ** the Owner's Manual.
2. Do not permit anyone to ride on the machine.
3. Before starting or operating the machine, make a walk-around inspection and check for obvious defects such as loose mounting bolts and damaged components. Correct any deficiencies before starting..



4. **Do not allow children to operate the Dump Cart. Only experienced tractor operators should operate the tractor when using the Dump Cart.**
5. Drive safely during transport; excessive speed while turning or on rough ground could cause damage to the cart and/or cause the tractor to tip over. Max speed 10 MPH loaded, 20 MPH empty.
6. Make sure hitch components are attached securely before operating or transporting.
7. Use flashing warning lights when on highways, except where prohibited by law.
8. Apply parking brake, and stop tractor engine before dismounting tractor.
9. Keep hands, feet and clothing away from moving parts.
10. Make sure everyone is clear of machine before starting tractor or operating machine.
11. Observe all safety decals located on machine. Replace them if they become damaged.
12. Be sure the dump cart is on level ground before dumping the tank.
13. Never dump under power lines or other overhead structures
14. Make sure the tank is fully lowered before performing any service work.
15. Make sure the tractor or other towing vehicle has sufficient weight and braking capacity to stop the cart safely and quickly when needed.
16. Before raising or dumping the tank, the tire on the non-dumping side must be filled with water or calcium chloride solution. Failure to properly ballast the cart could result in tip over.

HIGH VOLTAGE SAFETY ACT

Georgia Law requires that anyone operating equipment within 10 feet of an overhead high voltage line of more than 750 volts, must contact the Utilities Protection Center (UPC) by telephone at least 72 hours before commencing the work. For more information call (811), toll free (1-800-282-7411) or visit on the web "www.gaupc.com/laws_ga_overhead.asp. Many other states have similar laws. **Please** contact your local power company about laws before operating near high voltage lines.

DEALER SETUP

Due to shipping restrictions, some dealer assembly may be required.



DANGER: During setup, make sure the frame is securely supported on all four corners. Failure to support the frame could result in injury or death.

Carefully remove the loose parts that have been shipped inside the tank.

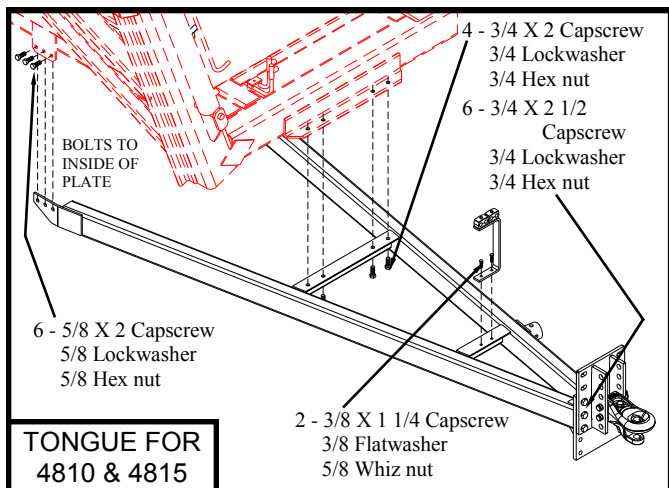


FIGURE 1 (Tongue hardware for 4810 & 4815 dump cart.)

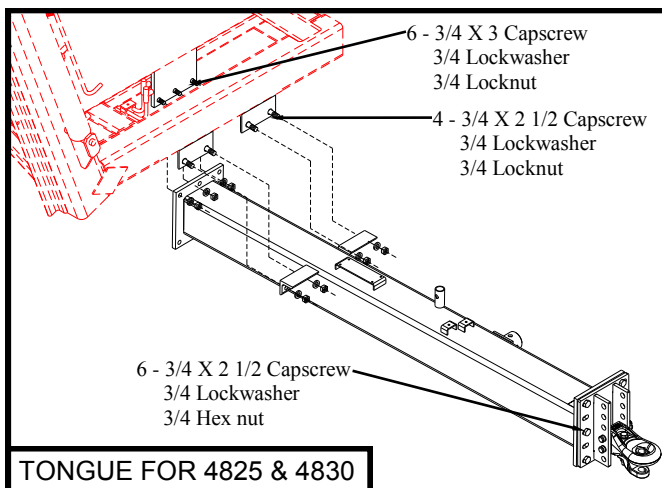
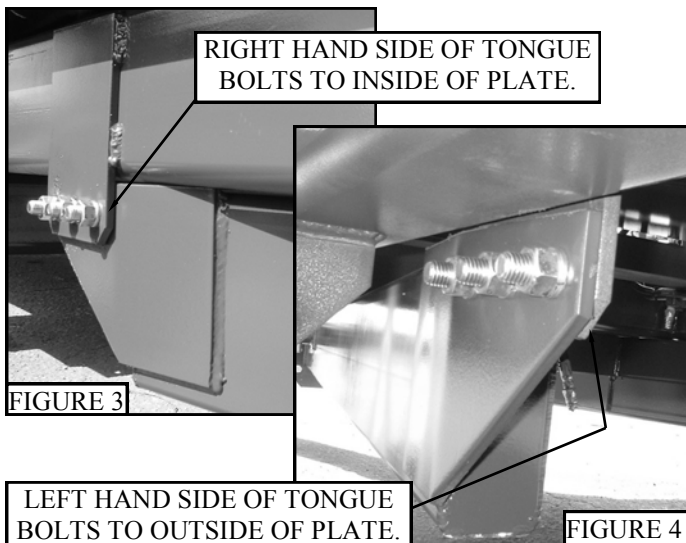


FIGURE 2 (Tongue hardware for 4825 & 4830 dump cart.)

PLEASE NOTE: When Attaching the tongue and clevis to the 4810 or 4815 dump cart the right hand side of tongue bolts to the inside of plate and the left hand side is bolted on the outside of plate as shown in figures 3 & 4. The tongue can be placed on either end of the frame for right or left side dumping. Install the 5/8" capscrews and/or 3/4" capscrews provided. Torque the 5/8" Grade 5 hardware to 130 ft. lbs. Torque the 3/4" Grade 5 hardware to 200 ft. lbs. Refer to Figures 1 & 2 for hardware details.



Check to be sure the axle is installed correctly for the tongue position you have chosen. Refer to Figure 5, Page 5. The axle is designed to be 2" out of center to provide some tongue weight for towing stability. Make sure the axle is attached toward the REAR of the frame and away from the tongue. If it is not in the desired position, remove the 5/8 capscrews and reinstall in the correct position.

Install the hydraulic hose clamps and support post to the tongue. If the tongue position has been reversed, some of the hydraulic hoses, adapters, and tubes will need to be relocated to the tongue side. Make sure all hydraulic connections are properly tightened.

Install the hub and spindle units. They can be placed in four (4) different positions in order to reach the maximum dumping height required. Refer to figure 5. Install the sixteen (16) 1" x 3.5" G8 capscrews provided. Torque to 680 ft. lbs. When selecting a spindle position, keep in mind that the cart is more stable when the center of gravity is lower. Also a shorter cart height will be less likely to hit trees or other overhead structures during transport.

DUMPING HEIGHTS

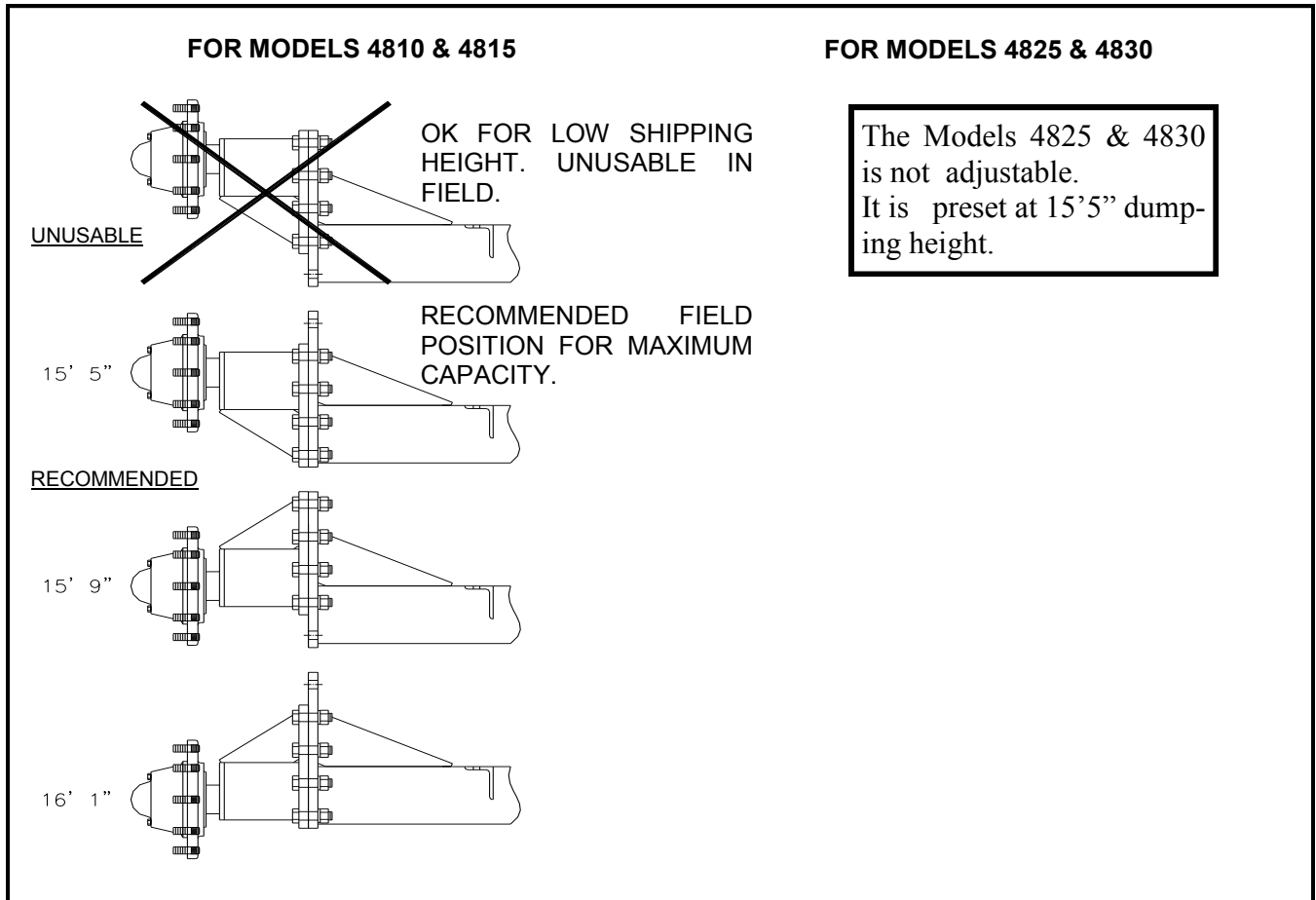


FIGURE 5 (Dumping Heights for 4810, 4815, 4825 and 4830 dump carts)

A Brace Assembly (48-081-012) need to be attached to the frame before the tire is mounted to the axle as shown in the picture to the right. (Figure 4)

Install the tires. Make sure the rim is turned with the valve stem toward the outside. The correct direction of the tire cleats should be the OPPOSITE direction to the rear tractor tires. Torque the wheel bolts to 400 ft. lbs.

At this point, the cart can be attached to a towing vehicle if desired. However, it is not fully ready for operation.

Fill the non-dumping side tire with water or calcium chloride solution. Follow manufacturer's safety precautions if using calcium chloride. Do not operate the cart until this tire has been completely filled to capacity. The 23.1-26 (10 ply) tires are tubeless. Support



FIGURE 6 (Brace Assembly for 4825 dump carts.)

the axle or frame to keep the tire from deflecting and unseating the bead when filling the tire. Also, do not allow the tire pressure to drop below five (5) PSI during the filling procedure. The tire will hold 128 gallons of water (1068 lbs). When finished, inflate both tires to 26 PSI.

Attach the desired panels to the top of the tank with the 3/8" hardware provided. Torque to 23 ft. lbs. Make sure that the installer has a secure work platform and assistance with the panels. Some panels are difficult to handle and may weigh over 300 lbs. Use thick gloves when handling the expanded metal panels. Expanded metal edges are very sharp and can easily cut through clothing and skin. Specialty panels are available for different types of material being handled.

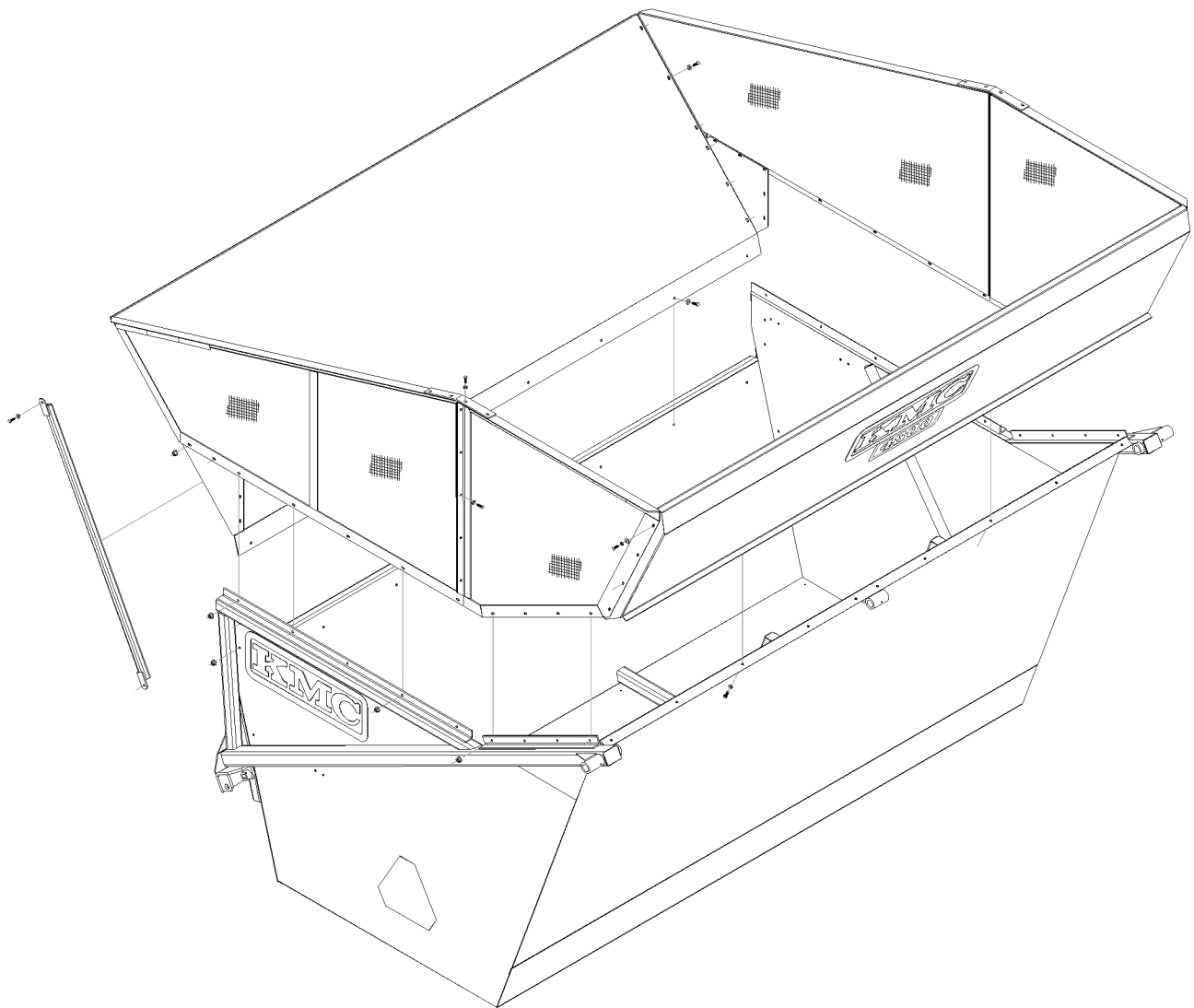


FIGURE 7 (Peanut panels for dump carts.)

Note: the 4810 Grain Cover Panels require the use of the Corner Diverters (48-027-040 & -041) which are a standard part of the Peanut Panel Bundle (48-082-001).

The first time the covers are installed, the diverters may have to be shifted around for proper alignment with the cover panels. Caulking and/or weather stripping may need to be applied to seal small gaps between some panel areas. Use a caulk that can be easily loosened later if the panels will be removed.

Note: Dump carts fully assembled and towed directly from the factory will not have

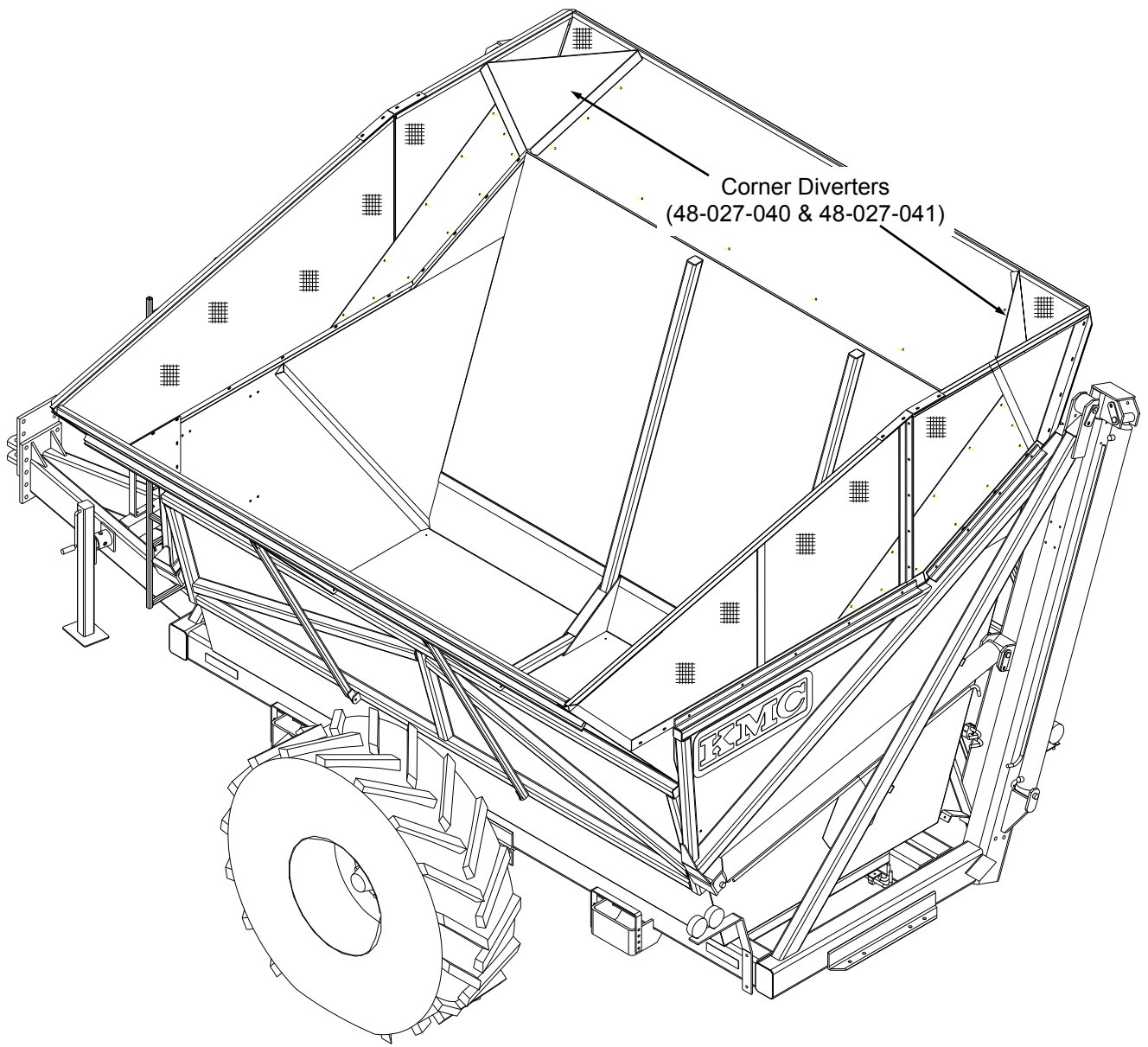


FIGURE 8 (Grain panels for dump carts.)

water in the tires. The dealer is responsible for making sure the non-dumping side tire is filled prior to allowing the customer to operate the cart.

INITIAL OPERATION:

Double check to be sure the non-dumping side tire has been filled with water or calcium chloride solution.

Lubricate all grease fittings.

Adjust the clevis height to match the tractor drawbar height. The tongue should be fairly level when operating. Connect the cart to the tractor. A 1 1/4" capscrew or pin is preferred. Make sure that a locking device is used to prevent the capscrew or pin from coming out. Check the tractor hydraulic oil level before operating.

An optional ball hitch is available. Make sure to use only KMC supplied balls. Shank sizes of 1 1/2, 1 3/8, and 1 1/4 are available to fit the drawbar hole. Torque the castle nut and install the cotter pin.

SIZE	TORQUE (FT LBS)
1 1/4	1900
1 3/8	2500
1 1/2	3300

Check all bolts and nuts for proper installation and torque.

Slowly and fully raise and dump the tank a few times to ensure proper operation.

Note: The hydraulic hoses and cylinders are filled with a petroleum based, anti-wear hydraulic oil with ISO 46 viscosity grade. Make sure this is compatible with the oil in the tractor before operating.

Recheck and fill the tractor with hydraulic oil.

FIELD OPERATION:

- Always clean the hydraulic quick disconnects before connecting to the tractor. This will help prevent contamination from getting into the system and will extend seal life.
- Try to load the cart as evenly as possible. This will help to keep an even load on each cylinder as the tank is raised and dumped.
- Do **not** overload the cart. Maximum capacity depends on the type of material being transported. **(Do not exceed 18,000 lbs.)** Start with small loads if you are unsure of the weight of the material.
- Do **not** load grain above the grain fill line.
- Weight racks are provided for attaching tractor weights if additional dumping stability is desired. However, they are not to be used as a substitute for liquid ballast in the tire. They are to be used in addition to filling the tire.
- Avoid excess speeds when towing a full cart, especially on rough or uneven ground.
- When dumping the cart into the receiving vehicle, make sure the ground area is level and the overhead area is clear.





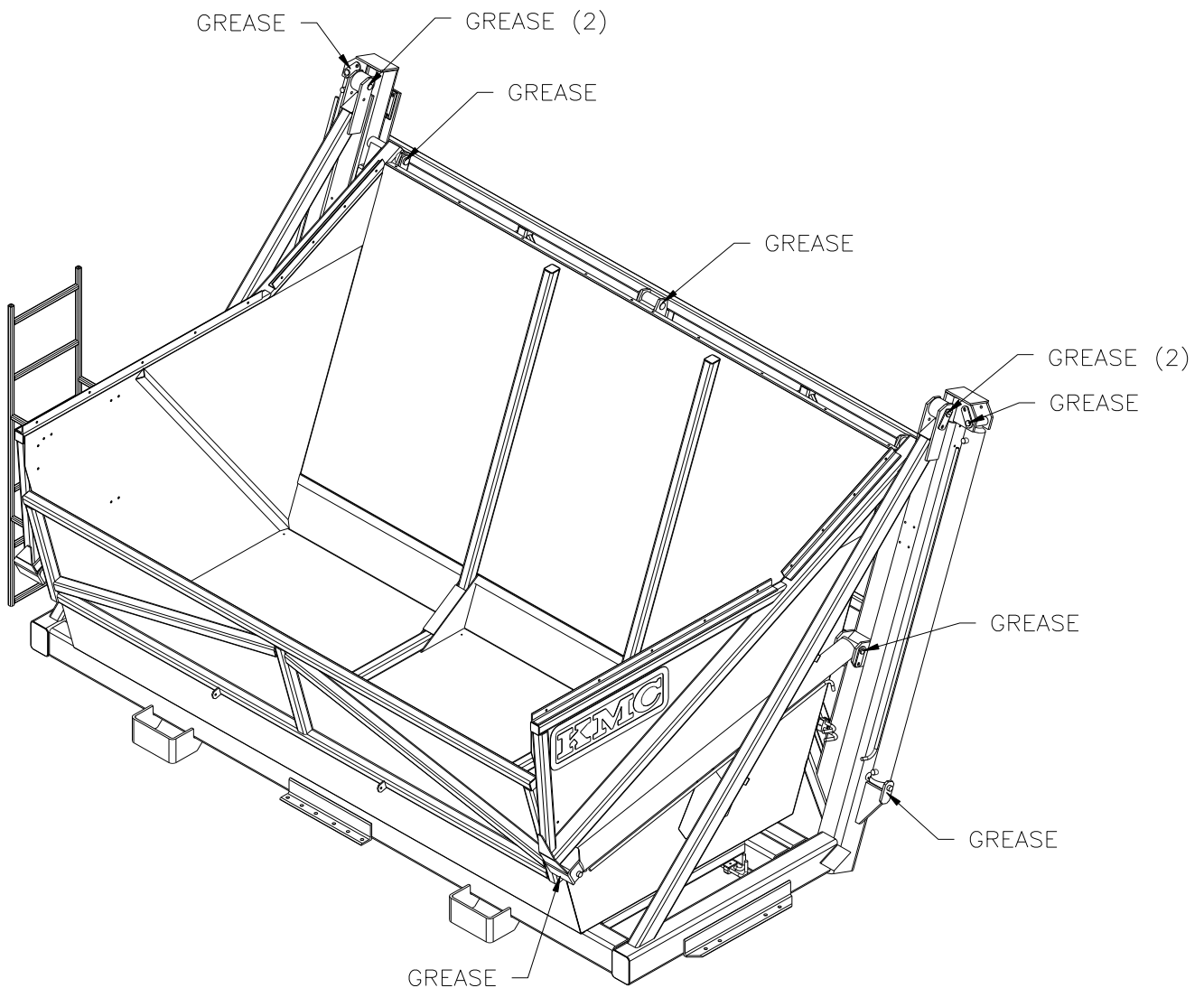
CAUTION: NEVER MOVE THE CART WHEN THE TANK IS IN THE RAISED OR DUMPED POSITIONS. THIS MAY CAUSE EXCESSIVE STRESS ON STRUCTURAL MEMBERS AND LEAD TO FAILURE. SET THE TANK BACK DOWN BEFORE MOVING.

Periodically check wheel bolts for proper torque. Tighten as needed. (400 ft. lbs.)

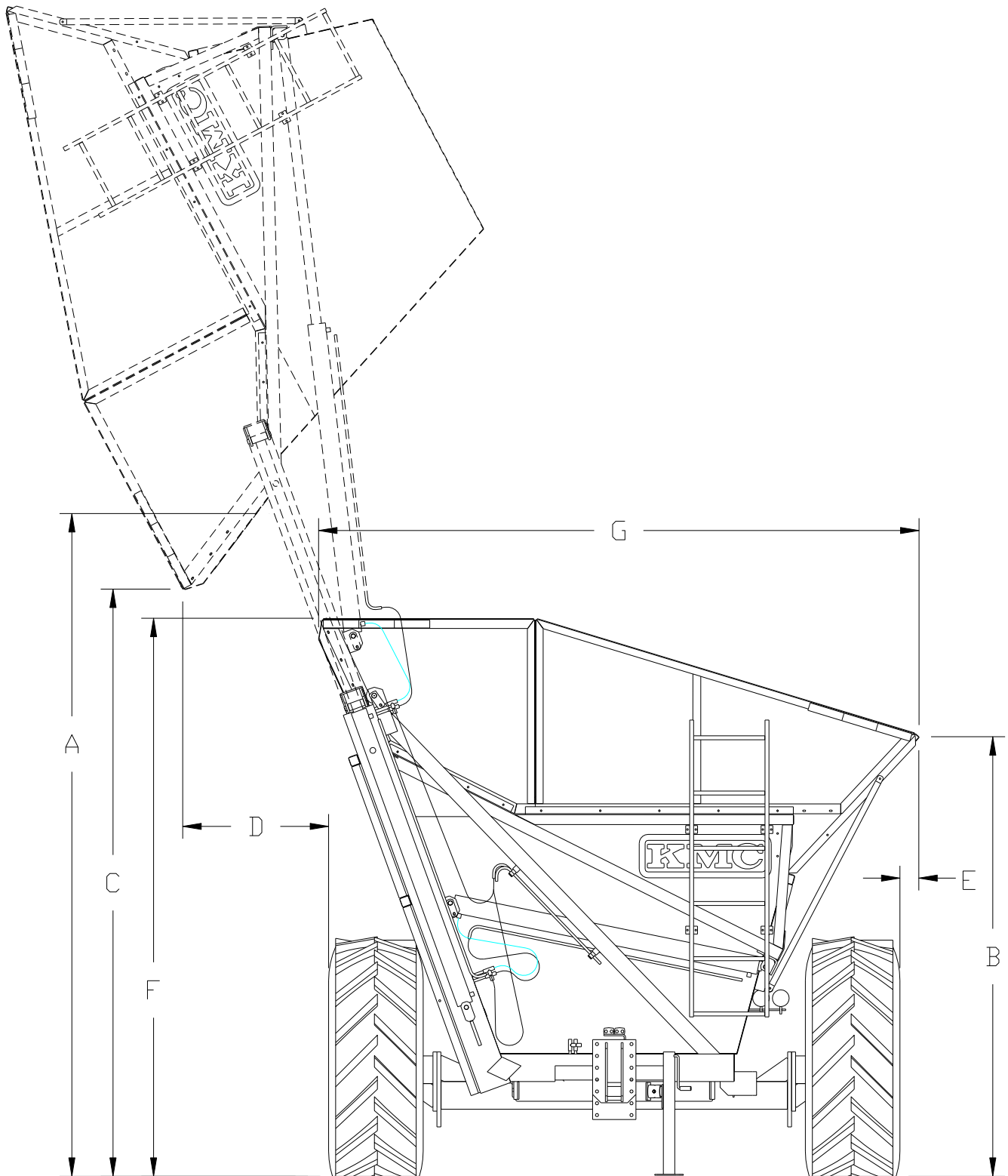
Periodically check the condition of the hydraulic hoses. Replace any that have worn or damaged areas.

LUBRICATION POINTS (15 total):

- 4 points – One on each of the rollers. (weekly)
- 3 points – One on each of the tank pivot pins. (weekly)
- 4 points – One on each end of the dumping cylinders. (weekly)
- 4 points – One on each end of the lifting cylinders. (annually)



DUMP CART SPECIFICATIONS



SPECIFICATIONS

	MODELS 4810 & 4815	MODELS 4825 & 4830
Max. Capacity (peanuts)	750 cu. ft. (600 bushels)	950 cu. ft. (760 bushels)
Max. Capacity (grain)	18,000 lbs. (300 bushels)	18,000 lbs. (300 bushels)
A - Max. Dumping Height *	15 ft. 5 in. to 16 ft. 1 in.	15 ft. 5 in.
B - Loading Height *	9 ft. 4 in. to 10 ft.	9 ft. 4 in.
C - Max. Dump Lip Height *	14 ft. 2 in. to 14 ft. 10 in.	14 ft. 2 in.
D - Max. Dump Lip Clearance	3 ft. 4 in.	3 ft. 3 in.
E - Fill Lip Overhang	3.75 in.	3.75 in.
F - Transport Height *	11 ft. 4 in. to 12 ft.	11 ft. 4 in.
G - Transport Width	12 ft -8 in.	12 ft -8 in.
Tire size	23.1 – 26 10 ply cleated	23.1 – 26 10 ply cleated
Wheel base (Center - Center)	10 ft. 3 in.	10 ft. 4 in.
Wheel base (Outside - Outside)	12 ft. 3 in.	12 ft. 4 in.
Overall length	21 ft.	24 ft.
Shipping weight for 4810 & 4825 Shipping weight for 4815 & 4830	10,325 lbs. 10,725 lbs.	12,400 lbs 12,900 lbs.

- Heights depend on wheel spindle position. (Adjustable in 4" Increments.)
- Dimensions are for Peanut panels. Consult Engineering for Dimensions with other panels.

Specifications are subject to change without notice.

FRONT VIEW



REAR VIEW



LOW DUMP



HIGH DUMP



WEIGHT RACK



DIRT SCREEN





WARNING

IMPORTANT BALL SPECIFICATIONS FOR SAFE OPERATION:

- SIZE: 2-5/16
- LOAD RATING: 30,000 LBS
- TIGHTEN CASTLE NUT TO CORRECT TORQUE AND INSTALL COTTER PIN.
- USE CORRECT SHANK SIZE TO FIT DRAW-BOLT HOLE. 1-1/2, 1-3/8, 1-1/4
- GREASE COUPLER DAILY.

48-050-019



WARNING



TO AVOID SERIOUS INJURY OR DEATH:

- AVOID BANKS AND DITCHES.
- REDUCE SPEED ON TURNS, SLOPES, AND ROUGH TERRAIN.
- AVOID IMPLEMENT CONTACT WITH ELECTRICAL POWER LINES
- NEVER RAISE TANK UNDER POWERLINES OR ALLOW IMPLEMENT TO COME IN CONTACT WITH ELECTRICAL POWERLINES.
- NEVER RAISE FULL TANK WHILE ON STEEP SLOPES, TERRACES, OR DITCHES. TIP OVER MAY RESULT.

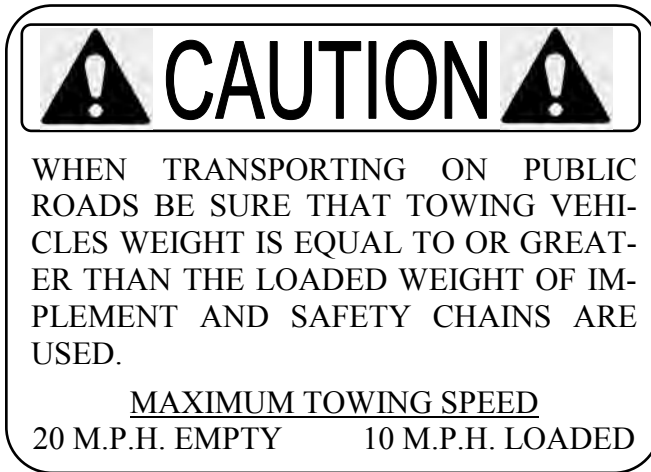
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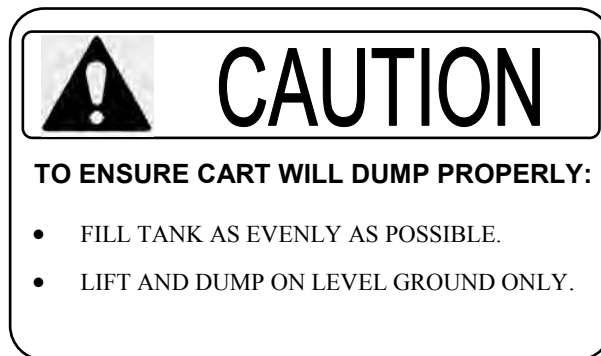
WARNING

- FILL THE TIRE ON THIS SIDE WITH WATER OR CALCIUM CHLORIDE SOLUTION BEFORE OPERATING.
- FAILURE TO DO SO COULD CAUSE TIP OVER, RESULTING IN SERIOUS INJURY OR DEATH.

48-050-009



33-050-034



48-050-008



48-050-006

The following is a list of serial numbers issued to our machines at the beginning of each year. To determine when a unit was made, find the range within which the particular serial number falls. It would have been produced between January 1 to December 31 of that year.

YEAR	SERIAL NUMBERS
1985	27986-29695
1986	29696-31095
1987	31096-33234
1988	33235-35548
1989	35549-38496
1990	38497-41771
1991	41772-44466
1992	44467-47001
1993	47002-48750
1994	48751-51549
1995	51551-54262
1996	54263-56661
1997	56662-59465
1998	59466-62097
1999	62098-63986
2000	63987-65692
2001	65693-67340
2002	67341-68699
2003	68700-70482
2004	70483-72646
2005	72647-74866
2006	74867-76368
2007	76369-77883
2008	77884-79891
2009	79892-80944
2010	80945-81775
2011	81776-83453
2012	83454-85092
2013	85093-86418
2014	86419-87790
2015	87791-89096
2016	89097-90089
2017	90090-



DEPENDABLE EQUIPMENT FOR PROGRESSIVE FARMING

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