



DYNA-DRIVE

In-Line Transporter

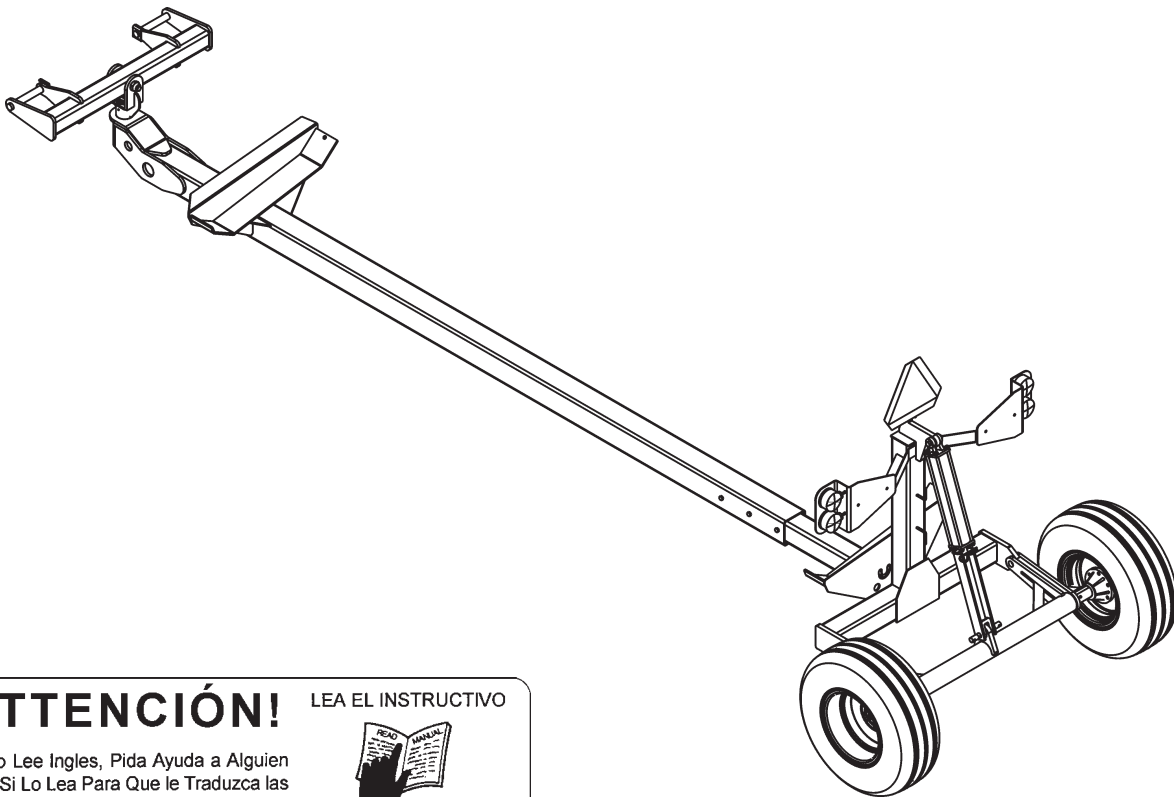
Published 01/05

P/N 4966WC

OPERATOR'S MANUAL



This Operator's Manual is an integral part of the safe operation of this machine and must be maintained with the unit at all times. **READ, UNDERSTAND, and FOLLOW** the Safety and Operation Instructions contained in this manual before operating the equipment.



ATENCIÓN!

LEA EL INSTRUCTIVO

Si No Lee Ingles, Pida Ayuda a Alguien Que Si Lo Lea Para Que le Traduzca las Medidas de Seguridad.



M&W®

1020 South Sangamon Ave.
Gibson City, Illinois 60936
217-784-4261

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TO THE OWNER/OPERATOR/DEALER

All implements with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes the potential hazards and follows reasonable safety practices. The manufacturer has designed this implement to be used with all its safety equipment properly attached to minimize the chance of accidents.

BEFORE YOU START!!

Read the safety messages on the implement and shown in your manual.
Observe the rules of safety and common sense!

NOTICE TO OWNER

An OPERATOR'S MANUAL (with Repair Parts Listing) and a WARRANTY REGISTRATION CARD were attached to this implement during final inspection at the factory.

If they were not attached at the time of purchase, please contact your selling dealer at once.

- 1. Read and understand Manual before operating the implement.**
- 2. Complete, sign, and mail the Warranty Registration Card in today.**

00763977

WARRANTY INFORMATION:

Read and understand the complete Warranty Statement found in this Manual. Fill out the Warranty Registration Form in full and return it within 30 Days. Make certain the Serial Number of the Machine is recorded on the Warranty Card and on the Warranty Form that you retain. The use of "will-fit" parts will void your warranty and can cause catastrophic failure with possible injury or death.

Alamo Group Ag. Division is willing to provide
one (1) AEM Mower Safety Practices Video

- Please Send Me: VHS Format – AEM/FEMA Mower Operator Safety Video
 DVD Format – AEM/FEMA Mower Operator Safety Video
 Mower Operator’s Manual
 AEM Mower Operator’s Safety Manual

Requester Name: _____ Phone: _____

Requester Address: _____

City _____

State _____

Zip Code _____

Mower Model: _____ Serial Number: _____

Date Purchased: _____ Dealer Salesperson: _____

Dealership Name: _____ Dealership Location: _____

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Or Email to:
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SAFETY SECTION

SAFETY

A safe and careful operator is the best operator. Safety is of primary importance to the manufacturer and should be to the owner/operator. Most accidents can be avoided by being aware of your equipment, your surroundings, and observing certain precautions. The first section of this manual includes a list of Safety Messages that, if followed, will help protect the operator and bystanders from injury or death. Read and understand these Safety Messages before assembling, operating or servicing this Implement. This equipment should only be operated by those persons who have read the Manual, who are responsible and trained, and who know how to do so safely and responsibly.

The Safety Alert Symbol combined with a Signal Word, as seen below, is used throughout this manual and on decals which are attached to the equipment. The Safety Alert Symbol means: **“ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!”** The Symbol and Signal Word are intended to warn the owner/operator of impending hazards and the degree of possible injury faced when operating this equipment.

Practice all usual and customary safe working precautions and above all---remember safety is up to YOU. Only YOU can prevent serious injury or death from unsafe practices.

CAUTION!



The lowest level of Safety Message; warns of possible injury. Decals located on the Equipment with this Signal Word are Black and Yellow.

WARNING!



Serious injury or possible death! Decals are Black and Orange.

DANGER!



Imminent death/critical injury. Decals are Red and White. (SG-1)

SAFETY

READ, UNDERSTAND, and FOLLOW the following Safety Messages. Serious injury or death may occur unless care is taken to follow the warnings and instructions stated in the Safety Messages. Always use good common sense to avoid hazards.

SAFETY INSTRUCTIONS



(SG-2)

¡LEA EL INSTRUCTIVO!



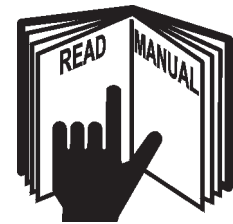
PELIGRO!

Si no lee Ingles, pida ayuda a alguien que si lo lea para que le traduzca las medidas de seguridad. (SG-3)



DANGER!

Never operate the Tractor or Implement until you have read and completely understand this Manual, the Tractor Operator's Manual, and each of the Safety Messages found in the Manual or on the Tractor and Implement. Learn how to stop the tractor engine suddenly in an emergency. Never allow inexperienced or untrained personnel to operate the Tractor and Implement without supervision. Make sure the operator has fully read and understood the manuals prior to operation. (SG-4)



WARNING!

Always maintain the safety decals in good readable condition. If the decals are missing, damaged, or unreadable, obtain and install replacement decals immediately. (SG-5)



WARNING!

Make certain the "Slow Moving Vehicle" (SMV) sign is installed in such a way as to be clearly visible and legible. When transporting the Equipment use the Tractor flashing warning lights. Before transporting the equipment on public roads make sure the Implement warning lights are connected, visible and working. Always follow all local traffic regulations. (SG-6a)



WARNING!

Operate this Equipment only with a Tractor equipped with an approved roll-over-protective system (ROPS). Always wear seat belts. Serious injury or even death could result from falling off the tractor--particularly during a turnover when the operator could be pinned under the ROPS. (SG-7)



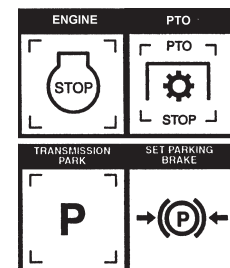
WARNING!

Do not modify or alter this Implement. Do not permit anyone to modify or alter this Implement, any of its components or any Implement function. (SG-8)



DANGER!

BEFORE leaving the tractor seat, always engage the brake and/or set the tractor transmission in parking gear, disengage the PTO, stop the engine, remove the key, and wait for all moving parts to stop. Place the tractor shift lever into a low range or parking gear to prevent the tractor from rolling. Never dismount a Tractor that is moving or while the engine is running. Operate the Tractor controls from the tractor seat only. (SG-9)



DANGER!

Never allow children or other persons to ride on the Tractor or Implement. Falling off can result in serious injury or death. (SG-10)



SAFETY

DANGER!



Never allow children to operate or ride on the Tractor or Implement. (SG-11)



WARNING!



Do not mount the Tractor while the tractor is moving. Mount the Tractor only when the Tractor and all moving parts are completely stopped. (SG-12)



DANGER!



Start tractor only when properly seated in the Tractor seat. Starting a tractor in gear can result in injury or death. Read the Tractor operators manual for proper starting instructions. (SG-13)



DANGER!



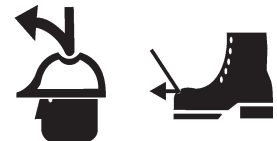
Never work under the Implement, the framework, or any lifted component unless the Implement is securely supported or blocked up to prevent sudden or inadvertent falling which could cause serious injury or even death. (SG-14)



WARNING!



The operator and all support personnel should wear hard hats, safety shoes, safety glasses, and proper hearing protection at all times for protection from injury including injury from items thrown by the equipment. (SG-16)



DANGER!



Do not operate this Equipment with hydraulic oil leaking. Oil is expensive and its presence could present a hazard. Do not check for leaks with your hand! Use a piece of heavy paper or cardboard. High-pressure oil streams from breaks in the line could penetrate the skin and cause tissue damage including gangrene. If oil does penetrate the skin, have the injury treated immediately by a physician knowledgeable and skilled in this procedure. (SG-15)



SAFETY

CAUTION!



PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMANENT HEARING LOSS! Tractors with or without an Implement attached can often be noisy enough to cause permanent hearing loss. We recommend that you always wear hearing protection if the noise in the Operator's position exceeds 80db. Noise over 85db over an extended period of time will cause severe hearing loss. Noise over 90db adjacent to the Operator over an extended period of time will cause permanent or total hearing loss. *Note:* Hearing loss from loud noise [from tractors, chain saws, radios, and other such sources close to the ear] is cumulative over a lifetime without hope of natural recovery. (SG-17)



WARNING!



Transport only at safe speeds. Serious accidents and injuries can result from operating this equipment at unsafe speeds. Understand the Tractor and Implement and how it handles before transporting on streets and highways. Make sure the Tractor steering and brakes are in good condition and operate properly.



Before transporting the Tractor and Implement, determine the safe transport speeds for you and the equipment. Make sure you abide by the following rules:

1. Test the tractor at a slow speed and increase the speed slowly. Apply the Brakes smoothly to determine the stopping characteristics of the Tractor and Implement. As you increase the speed of the Tractor the stopping distance increases. Determine the maximum safe transport speed for you and this Equipment.
2. Test the equipment at a slow speed in turns. Increase the speed through the turn only after you determine that it is safe to operate at a higher speed. Use extreme care and reduce your speed when turning sharply to prevent the tractor and implement from turning over. Determine the maximum safe turning speed for you and this equipment before operating on roads or uneven ground.
3. Only transport the Tractor and Implement at the speeds that you have determined are safe and which allow you to properly control the equipment.



Be aware of the operating conditions. Do not operate the Tractor with weak or faulty brakes. When operating down a hill or on wet or rain slick roads, the braking distance increases: use extreme care and reduce your speed. When operating in traffic always use the Tractor's flashing warning lights and reduce your speed. Be aware of traffic around you and watch out for the other guy. (SG-19)

WARNING!



Never attempt to lubricate, adjust, or remove material from the Implement while it is in motion or while tractor engine is running. Make sure the tractor engine is off before working on the Implement. (SG-20)

WARNING!



Always read carefully and comply fully with the manufacturers instructions when handling oil, solvents, cleansers, and any other chemical agent. (SG-22)

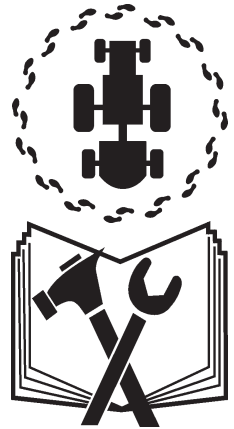


SAFETY

WARNING!



Periodically inspect all moving parts for wear and replace when necessary with authorized service parts. Look for loose fasteners, worn or broken parts, and leaky or loose fittings. Make sure all pins have cotter pins and washers. Serious injury may occur from not maintaining this machine in good working order. (SG-21)



DANGER!



Never run the tractor engine or mower engine in a closed building or without adequate ventilation. The exhaust fumes can be hazardous to your health. (SG-23)

DANGER!



KEEP AWAY FROM ROTATING ELEMENTS to prevent entanglement and possible serious injury or death. (SG-24)



DANGER!



Never allow children to play on or around Tractor or Implement. Children can slip or fall off the Equipment and be injured or killed. Children can cause the Implement to shift or fall crushing themselves or others. (SG-25)

DANGER!



NEVER use drugs or alcohol immediately before or while operating the Tractor and Implement. Drugs and alcohol will affect an operator's alertness and coordination and therefore affect the operator's ability to operate the equipment safely. Before operating the Tractor or Implement, an operator on prescription or over-the-counter medication must consult a medical professional regarding any side effects of the medication that would hinder their ability to operate the Equipment safely. **NEVER** knowingly allow anyone to operate this equipment when their alertness or coordination is impaired. Serious injury or death to the operator or others could result if the operator is under the influence of drugs or alcohol. (SG-27)



DANGER!



Operate the Tractor and/or Implement controls only while properly seated in the Tractor seat with the seat belt securely fastened around you. Inadvertent movement of the Tractor or Implement may cause serious injury or death. (SG-29)

SAFETY

WARNING!

In wet conditions where there is a likelihood of material collecting on the Implement, make certain that this material is removed before travelling on the public highway. (STL-7)

PARTS INFORMATION

M&W implements use matched system components for blades, hangers, rollers, and bearings. These parts are made and tested to M&W specifications. Non-genuine "will fit" parts do not consistently meet these specifications. The use of "will fit" parts may reduce implements performance, void warranties, and present a safety hazard. Use genuine M&W mower parts for economy and safety. (SPMW-1)

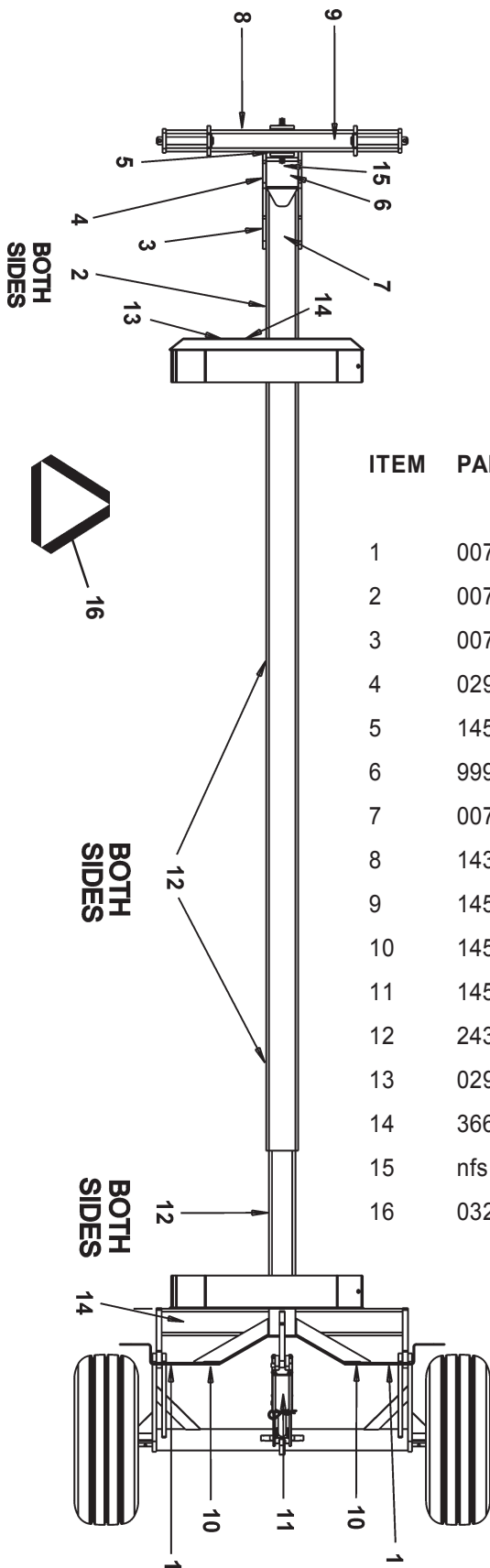
SEE YOUR M&W DEALER

In addition to the design and configuration of this Implement, including Safety Signs and Safety Equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of the machine. Refer also to Safety Messages and operation instruction in each of the appropriate sections of the Tractor and Equipment Manuals. Pay close attention to the Safety Signs affixed to the Tractor and Equipment. (SG-18)

SAFETY

SAFETY DECALS

These decals are installed on the In-Line Transporter for your safety. They must be visible at all times and kept in good condition. The owner of this machine assumes responsibility for maintaining these warning decals. If they become damaged or unreadable for any reason, replace immediately. A full set of replacement decals are available. Order part number 3810406 for a Safety Decal Kit. For a complete Machine Decal Kit, order part number 3810407. You must include serial number of your In-Line Transporter when ordering. Individual decals may be purchased. Refer to Decal Identification and Location on this page and next two pages.



ITEM	PART NO.	QTY	LEVEL	DESCRIPTION
1	00725746	1	DANGER	Peligro-Spanish Translation
2	00756059	1	WARNING	Oil Leak
3	00771039	1	WARNING	Decal, Use General
4	02962764	1	WARNING	Pinch Points
5	1458383	1	WARNING	Towing Speed
6	999001	1	CAUTION	Decal
7	00763977	1	INSTRUCT	Notice To Owner
8	1438333	1	INSTRUCT	Grease - 10 HRS
9	1458392	2	REFLECT	Decal, Red Reflector
10	1458393	6	REFLECT	Yellow Reflector
11	1458398	2	REFLECT	Orange Reflector
12	2438346	2	LOGO	Decal, M&W
13	02962765	2	DANGER	Decal, Pinch Points
14	3668308	1	WARNING	Decal, Transport Lock
15	nfs	1	SRL PLT	Dyna Drive Inline Transport
16	03200347	*	REFLECT	SMV Emblem

SAFETY



CAUTION

M&W[®]

For your safety and to guarantee optimum product reliability, always use genuine M&W replacement parts. The use of inferior "will-fit" parts will void warranty of your M&W implement and may cause premature or catastrophic failure which can result in serious injury or death. If you have any questions concerning the repair parts you are using, contact M&W, 1020 South Sangamon Ave., Gibson City, IL. 60936

00771039

3-00771039



CAUTION

- Tractor's rearing up may cause machine damage, injury, or death.
- Never use tractor without ROPS.
- Keep seatbelt fastened snugly to prevent falling off and injury. **NO RIDERS.**



- Add tractor front weight as needed to maintain safe steering traction.
- Slow down in curves and rough places.
- Stay away from soft banks and holes.

- Never start or accelerate suddenly to maintain safe steering traction.
- Do not lift heavy implement while going up steep slopes.

999001

6 - 999001

M&W[®]

12-2438346

SAFETY

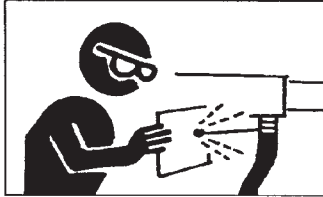
WARNING

USE PAPER OR CARDBOARD TO CHECK FOR LEAKS. **NEVER USE YOUR HAND.** IF OIL PENETRATES SKIN, GANGRENE OR OTHER SERIOUS INJURY COULD OCCUR.

GET IMMEDIATE MEDICAL ATTENTION.

See Operator's Manual.

00756059



2 - 00756059

PELIGRO

Si No Lee Ingles, Pida Ayuda a Alguien Que Si Lo Lea Para Que le Traduzca las Medidas de Seguridad.

LEA EL INSTRUCTIVO

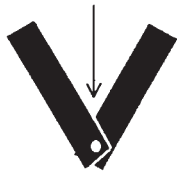


00725746

1 - 00725746

WARNING

PINCH POINTS



02962764

4 - 02962764

WARNING

NEVER EXCEED
MAXIMUM TOWING

SPEED OF:

25

M.P.H.

Reorder No. 1458383

5 - 1458383

NOTICE TO OWNER

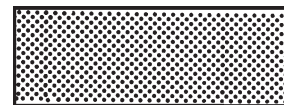
An OPERATOR'S MANUAL (with Repair Parts Listing) and a WARRANTY REGISTRATION CARD were attached to this implement during final inspection at the factory.

If they were not attached at the time of purchase, please contact your selling dealer at once.

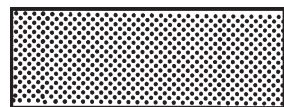
1. Read and understand Manual before operating the implement.
2. Complete, sign, and mail the Warranty Registration Card in today.

00763977

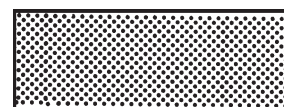
7 - 00763977



9 - 1458392



10 - 1458393



11 - 1458398

SAFETY



WARNING!

- * Never transport equipment without correctly installing transport lock. See operators manual for correct installation.
- * Failure to correctly install transport lock arms could result in equipment damage, serious injury or death.

3668308

14 - 3668308



DANGER

CRUSHING AND PINCH POINTS



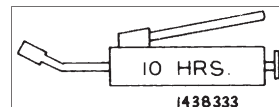
MOVING MACHINERY PARTS CAN PINCH OR CRUSH
OR FALL- WHICH MAY CAUSE INJURY OR DEATH.

02962765

13 - 02962765



16 - 03200347



8 - 1438333

SAFETY

FEDERAL LAWS AND REGULATIONS

This section is intended to explain in broad terms the concept and effect of federal laws and regulations concerning employer and employee equipment operators. This section is not intended as a legal interpretation of the law and should not be considered as such.

Employer-Employee Operator Regulations

U.S. Public Law 91-596 (The Williams-Steiger Occupational and Health Act of 1970) OSHA

This Act Seeks:

“...to assure so far as possible every working man and woman in the nation safe and healthful working conditions and to preserve our human resources...”

DUTIES

Sec. 5 (a) Each employer-

- (1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;
- (2) shall comply with occupational safety and health standards promulgated under this Act.
- (b) Each employee shall comply with occupational safety and health standards and all rules, regulations and orders issued pursuant to this Act which are applicable to his own actions and conduct.

OSHA Regulations

OSHA regulations state in part: “At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee in the safe operation and servicing of all equipment with which the employee is, or will be involved.”

Employer Responsibilities:

To ensure employee safety during Tractor and Implement operation, it is the employer’s responsibility to:

1. Train the employee in the proper and safe operation of the Tractor and Implement.
2. Require that the employee read and fully understand the Tractor and Implement Operator’s manual.
3. Permit only qualified and properly trained employees to operate the Tractor and Implement.
4. Maintain the Tractor and Implement in a safe operational condition and maintain all shields and guards on the equipment.
5. Ensure the Tractor is equipped with a functional ROPS and seat belt and require that the employee operator securely fasten the safety belt and operate with the ROPS in the raised position at all times.
6. Forbid the employee operator to carry additional riders on the Tractor or Implement.
7. Provide the required tools to maintain the Tractor and Implement in a good safe working condition and provide the necessary support devices to secure the equipment safely while performing repairs and service.
8. Require that the employee operator stop mowing if bystanders or passerbys come within 100 yards.

Child Labor Under 16 Years of Age

Some regulations specify that no one under the age of 16 may operate power machinery. It is your responsibility to know what these regulations are in your own area or situation. (Refer to U.S. Dept. of Labor, Employment Standard Administration, Wage & Home Division, Child Labor Bulletin #102.)

INTRODUCTION SECTION

INTRODUCTION

This In-Line Transporter is designed with care and built with quality materials by skilled workers. Proper assembly, maintenance, and operating practices, as described in this manual, will help the owner/operator get years of satisfactory service from the machine.

The In-Line Transporter is designed to facilitate transportation of the M&W Dyna-Drive between fields or whenever road transport is required. The Transporter is designed to fit the M&W Dyna-Drive models 4000, 5000, and 6000 produced after 1996. Some models of Dyna-Drives produced prior to 1996 will also fit, but careful evaluation of the overall width of the Dyna-Drive in question and the inner width of the Transport saddles is required.

The purpose of this manual is to familiarize, instruct, and train. The Safety Section is a **MUST READ** section prior to any use of this implement. The Assembly Section instructs the owner/operator in the correct assembly of the In-Line Transporter using standard and optional equipment. Careful use and timely service saves extensive repairs and costly downtime losses. The Operation Section informs the owner/operator how to work the implement and explains proper procedures and safe practices prior to and during the operation of the In-Line Transporter. The Maintenance Section instructs the owner/operator of all the necessary inspection, lubrication, and general maintenance needed to insure long life and trouble free operation of your In-Line Transporter. The Trouble-Shooting Guide helps diagnose difficulties with the In-Line Transporter and offers solutions to the problems. The Parts Listing section is designed to familiarize the owner/operator with replaceable parts on the implement.

Safety is of primary importance to the owner/operator and to the manufacturer. The first section of this manual includes a list of Safety Messages, that, if followed, will help protect the operator and bystanders from injury or death. Many of the Safety Messages will be repeated throughout the manual. The owner/operator/dealer should know these Safety Messages before assembly and be aware of the hazards of operating this implement during assembly, use, and maintenance. The Safety Alert Symbol combined with a Signal Word, as seen below, is intended to warn the owner/operator of impending hazards and the degree of possible injury faced when operating this machine.

ATTENTION OWNER/OPERATOR

BEFORE OPERATING THIS MACHINE:

1. Carefully read the Operator's Manual, completely understand the Safety Messages and instructions, and know how to operate correctly both the tractor and transporter.
2. Fill out the Warranty Card in full. Be sure to answer all questions, including the Serial Number of the transporter.

NOTE: *Warranties are honored only if completed "Owner Registration and Warranty" cards are received by M & W[®] within thirty days of delivery of the transporter.*

3. Record the Transporter model and Serial Number on the Warranty card at the front of the Operator's Manual. Keep this as part of the permanent maintenance file for the transporter.

ASSEMBLY SECTION

ASSEMBLY

REAR FRAME AND AXLE ASSEMBLY (Figure 1)

1. Install axle (7) onto Rear Frame (1) using pins (28). Retain each pin (28) with two cotter pins (16).
2. Install Hub and Spindle Assembly (40) into end of Axle (7) and retain with hex bolt (14) and nut (15). Install Tire and Wheel Assembly (10) onto Hub using lug nuts provided. Torque all lug nuts to 75 ft-lbs.
3. Install Hydraulics Cylinder (4) between rear frame (1) and Axle (7) Using pin (3) and Pin (8).
NOTE: Orientation of cylinder and placement of 4-1/8" pin (3) and 5-1/8" pin (8). Install the transport lock (5) on the lower pin of the cylinder. Retain pins (3 & 8) with cotter pins (16). Place clip pin (6) in transport lock (5).
4. Install Light Brackets (2) on Rear Frame using 3/8" x 3/4" long hex bolts (31) and Nuts (32).
5. Apply grease to the pads on each side of the Rear frame. Insert front Rear assembly into Front frame assembly and install three 3/4" x 7" hex bolts (30) and nuts (29) through both tubes to secure. See Chart on Page (4-2) for proper length of Transport for Dyna-Drive Model.
6. Route Hydraulic hose (38) through front and rear mainframe tubes. Start by inserting the hydraulic hose through the 1.5" hole in the LH side of the rear mainframe near where the main tube and the rear cross tube meet. Feed the hose down the tube until it can be pulled from the front end of the transporter.
7. Route wiring harness (39) through front and rear mainframe tubes. Start by running a wire or small cord with a weight at one end through the 1.5" hole in the RH side of the rear mainframe near where the main tube and rear cross tube meet. When the weight exits the front mainframe, route it through the 2" hole in the side of the hitch plate and tie the four prong end of the main wiring harness to the string and pull the wire harness down through the mainframe until the 4-prong plug is accessible through the hole in the RH side of the rear mainframe tube.
8. Attach the hydraulic hose to the upper port on the cylinder, Using the 90° Hydraulic Adapter (43).
9. Install quick coupler to front end of the hose.
10. Install Safety Lighting. Install Amber safety lights (41) in upper hole of Lighting Bracket on each side and Red Safety Lights (42) in lower holes. Route the wiring harness from the lights to the main harness routed through the main tube. Use Ty-Wraps provided to secure wiring harness to rear mainframe.
11. Install the SMV Emblem in the socket on the upper cylinder lug.

ASSEMBLY

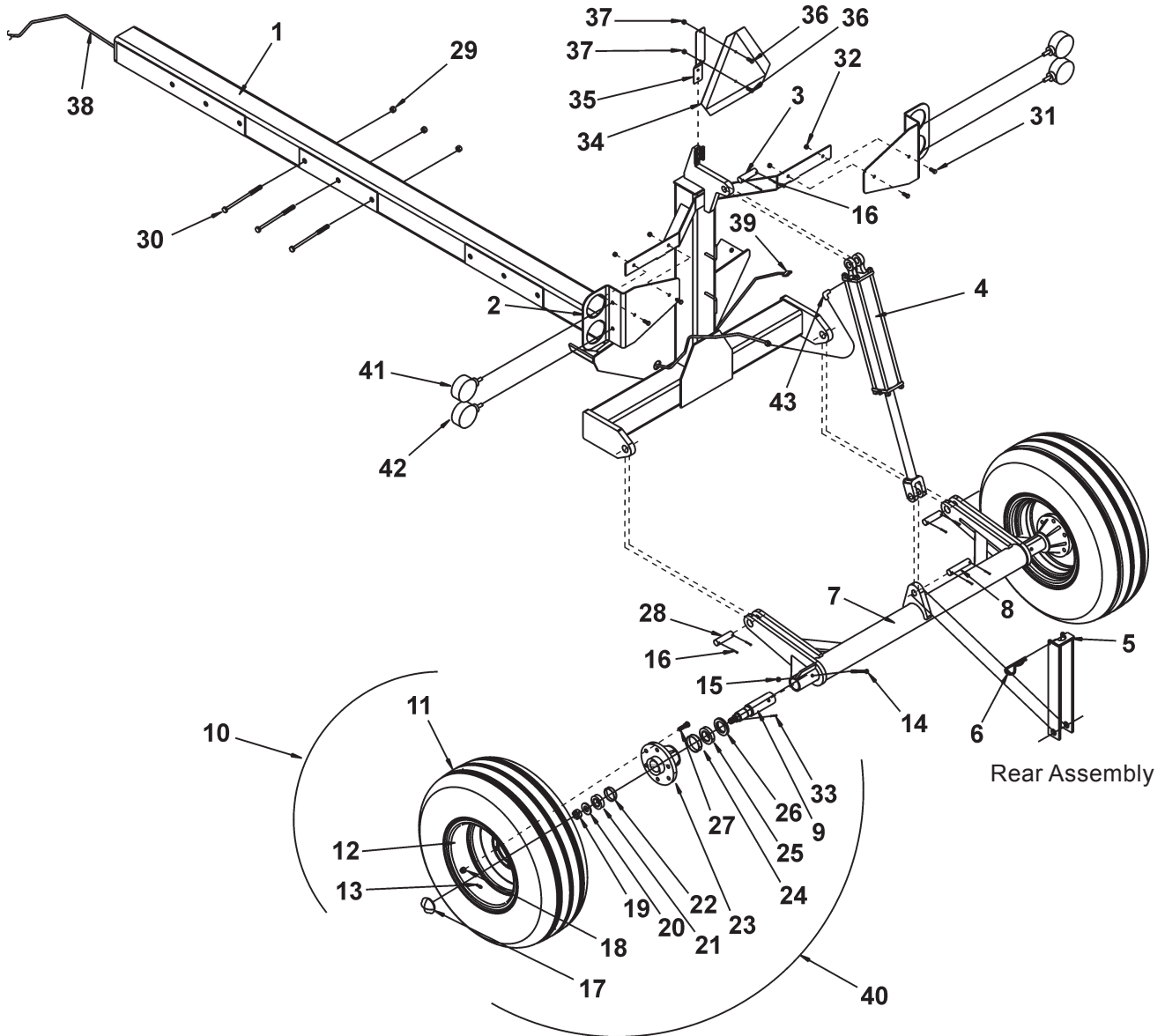


Figure 1

OPERATION SECTION

OPERATION

DANGER!



Never load or unload a Dyna-Drive or the In-Line Transporter when bystanders are present. Both units are large and can obstruct the operator's view resulting in injury or death to bystanders.

DANGER!



Never load or unload an In-Line Transporter unless transporter is fully lowered to the ground.

IN-LINE TRANSPORT OPERATION

Your new Dyna-Drive In-Line Transport provides a means of transporting your Dyna-Drive down roads with out concern of being over width. The Simple design allows for one tractor and operator to load and unload a Dyna-Drive as well as transport it down the road.

PREPARING IN-LINE TRANSPORTER FOR OPERATION

The transport is designed to accommodate three sizes of Dyna-Drive, the DD4000, the DD5000 and the DD6000.

To properly setup your transport for your Dyna-Drive remove the three Hex Bolts that bolt the front half and rear half of the Transport together. Use the following chart to correctly establish the extended length of the transport.

DYNA-DRIVE MODEL #	OVERALL DYNA-DRIVE WIDTH	INNER WIDTH OF TRANSPORT SADDLES	NUMBER OF HOLE PATTERNS VISIBLE ON REAR MAINFRAME
DD4000	14'9"	15'	0
DD5000	17'11"	18'2"	1
DD6000	20'7"	20'9"	2

When the proper length is established make sure all three Hex bolts can be installed and tightened to proper torque (See Chart Page 5-3).

Hose Hooks are provided for storing excess hose when transport is configured for smaller Dyna Drives.

PLACING THE DYNA-DRIVE ON THE TRANSPORTER

Note: The use of a Tractor Cat III Quick Hitch is strongly recommended.

WARNING!



Dirt and debris buildup in the saddles of the In-Line-Transport could cause improper and unsafe positioning of the Dyna-Drive. Always inspect and clean out saddles before placing Dyna-Drive on transport.

OPERATION

Make sure the Transport is on level ground and fully lowered to the ground so that the main tube is resting on the ground.

Attach the Dyna-Drive to your tractor as you would for field use. Raise the tractor three-point with the Dyna-Drive attached and slowly backup to the **LEFT HAND SIDE** of the transport, centering the Dyna-Drive on the saddles of the transport.

When the Dyna-Drive is centered above the transport, slowly lower the Dyna-Drive until it rests on the saddles of the Transporter.

Disconnect the Dyna-Drive from the tractor and slowly pull away.

Slowly back up to the front of the transport so that the lower three-point arms are able to engage the hitch pins on the transport. Connect the hydraulic hose to a hydraulic remote. Connect the safety lights to the tractor's lighting plug. Raise the transport and ensure that the lower hitch arms are securely pinned to the transport. Install the transport lock on the lift cylinder. Check to ensure the safety lights are functioning correctly. Clean SMV and reflectors for safe operation on the public highway.

TOWING THE IN-LINE TRANSPORTER

DANGER!



Never transport the In-Line Transporter without first installing the hydraulic cylinder transport lock.

WARNING!



The In-Line Transporter is extremely long and difficult to maneuver. Make sure area behind unit is clear before backing unit.

The In-Line transporter was designed to be towed by an Agricultural tractor only, at speeds not to exceed 25m.p.h. Towing the transport by any other means or at any greater speed could result in serious injury or death

REMOVING THE DYNA-DRIVE FROM THE TRANSPORTER

Position the In-Line Transport so that when lowered it will rest on level ground.

Remove the transport lock and lower the transport to the ground.

Disconnect the hydraulic line and lighting harness.

Disconnect tractor from transport hitch and back tractor up to Dyna-Drive hitch.

Attach tractor to Dyna-Drive and slowly lift unit off of the transport.

Check connection of tractor to Dyna-Drive to make sure all pins are secured.

MAINTENANCE SECTION

MAINTENANCE

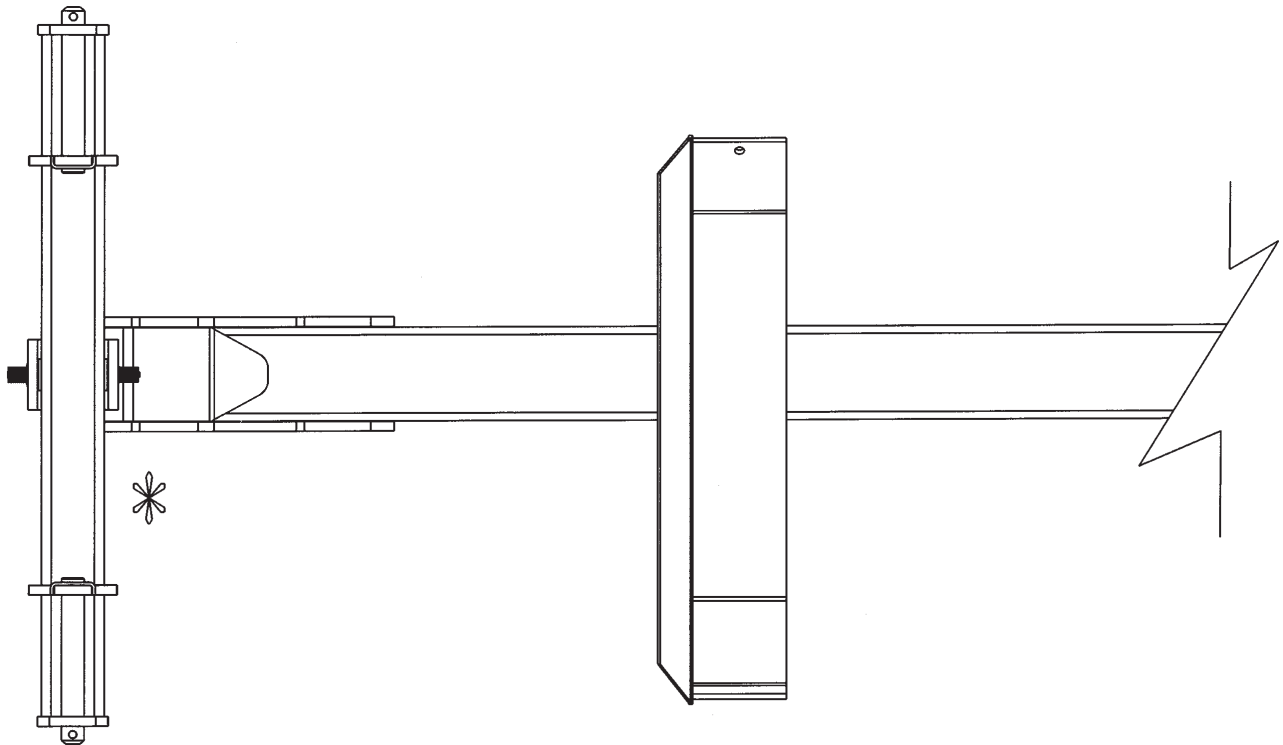
GENERAL MAINTENANCE

Before doing any maintenance or adjusting on the implement always stop the tractor, place in park and remove the ignition key. Lower In-Line Transporter fully to the ground before performing maintenance.

MAINTENANCE

1. Grease the Hitch Clevis every 8 hours or before every use if used infrequently.
2. Clean debris and dirt off of saddles.

LUBRICATION LOCATION GUIDE



LUBRICATION CHART

MAINTENANCE




PROPER TORQUE FOR FASTENERS

The chart lists the correct tightening torque for fasteners. When bolts are to be tightened or replaced, refer to this chart to determine the grade of bolts and the proper torque except when specific torque values are assigned in manual text.





RECOMMENDED TORQUE IN FOOT POUNDS UNLESS OTHERWISE STATED IN THE MANUAL*

NOTE: These values apply to fasteners as received from supplier, dry or when lubricated with normal engine oil. They do not apply if special graphited or molydisulphide greases or other extreme pressure lubricants are used. This applies to both UNF fine and UNC coarse threads.

Proper Torque values for bolts that are measured in Inches

Bolt Diameter			
	Head Marking No Marks Grade Two	Head Marking Three Lines Grade Five	Head Marking Six Lines Grade Eight
	Pound - Foot Value Dry	Pound - Foot Value Dry	Pound - Foot Value Dry
1/4"	5.5	9	12.5
5/16"	11	18	26
3/8"	20	33	46
7/16"	32	52	75
1/2"	50	80	115
9/16"	70	115	160
5/8"	100	160	225
3/4"	175	280	400
7/8"	175	450	650
1"	270	675	975
1-1/8"	375	850	1350
1-1/4"	530	1200	1950
1-3/8"	700	1550	2550
1-1/2"	930	2100	3350

Proper Torque values for Metric bolts

Bolt Diameter				
	Head Marking 4.8	Head Marking 8.8 or 9.8	Head Marking 10.9	Head Marking 12.9
	Pound - Foot Value Dry	Pound - Foot Value Dry	Pound - Foot Value Dry	Pound - Foot Value Dry
6mm	4.5	8.5	12	14.5
8mm	11	20	30	35
10mm	21	40	60	70
12mm	37	70	105	120
14mm	60	110	165	190
16mm	92	175	255	300
18mm	125	250	350	410
20mm	180	350	500	580
22mm	250	475	675	800
24mm	310	600	850	1000
27mm	450	875	1250	1500
30mm	625	1200	1700	2000

* To get Newton-Meters multiply pound-foot of torque by 1.356

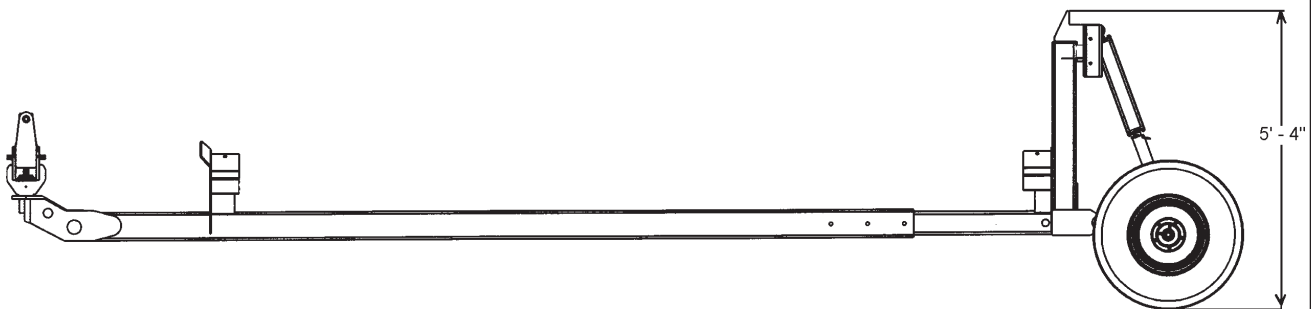
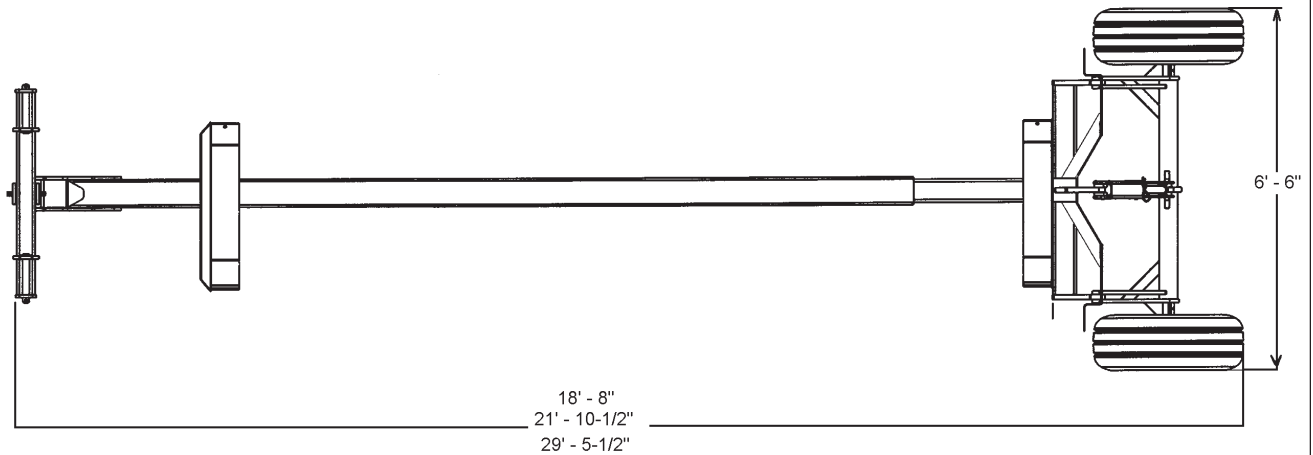
STORAGE

Lower Transporter to the ground for storage to remove weight from the tires. Coat the exposed rod of the hydraulic cylinder with grease to prevent corrosion.

MAINTENANCE

SPECIFICATION

Overall Length		
w/	DD4000	18' 8"
	DD5000	21' 10-1/2"
	DD6000	29' 5-1/2"
Overall Height w/ Dyna-Drive		80"
Overall Width		74"
Weight (In-Line Transport Only)		1250 Lbs.
Combined Weight		
w/	DD4000	6250 Lbs.
	DD5000	7110 Lbs.
	DD6000	8050 Lbs.



SPECIFICATION VIEW

M&W
LIMITED WARRANTY

1. LIMITED WARRANTIES

- 1.01. M&W warrants for one year from the purchase date to the original non-commercial, governmental, or municipal purchaser ("Purchaser") and warrants for six months to the original commercial or industrial purchaser ("Purchaser") that the goods purchased are free from defects in material or workmanship.
- 1.02. Manufacturer will replace for the Purchaser any part or parts found, upon examination at one of its factories, to be defective under normal use and service due to defects in material or workmanship.
- 1.03. This limited warranty does not apply to any part of the goods which has been subjected to improper or abnormal use, negligence, alteration, modification, or accident, damaged due to lack of maintenance or use of wrong fuel, oil, or lubricants, or which has served its normal life. This limited warranty does not apply to any part of any internal combustion engine, or expendable items such as blades, shields, guards, or pneumatic tires except as specifically found in your Operator's Manual.
- 1.04. Except as provided herein, no employee, agent, Dealer, or other person is authorized to give any warranties of any nature on behalf of Manufacturer.

2. REMEDIES AND PROCEDURES.

- 2.01. This limited warranty is not effective unless the Purchaser returns the Registration and Warranty Form to Manufacturer within 30 days of purchase.
- 2.02. Purchaser claims must be made in writing to the Authorized Dealer ("Dealer") from whom Purchaser purchased the goods or an approved Authorized Dealer ("Dealer") within 30 days after Purchaser learns of the facts on which the claim is based.
- 2.03. Purchaser is responsible for returning the goods in question to the Dealer.
- 2.04. If after examining the goods and/or parts in question, Manufacturer finds them to be defective under normal use and service due to defects in material or workmanship, Manufacturer will:
 - (a) Repair or replace the defective goods or part(s) or
 - (b) Reimburse Purchaser for the cost of the part(s) and reasonable labor charges (as determined by Manufacturer) if Purchaser paid for the repair and/or replacement prior to the final determination of applicability of the warranty by Manufacturer.The choice of remedy shall belong to Manufacturer.
- 2.05. Purchaser is responsible for any labor charges exceeding a reasonable amount as determined by Manufacturer and for returning the goods to the Dealer, whether or not the claim is approved. Purchaser is responsible for the transportation cost for the goods or part(s) from the Dealer to the designated factory.

3. LIMITATION OF LIABILITY.

- 3.01. MANUFACTURER DISCLAIMS ANY EXPRESS (EXCEPT AS SET FORTH HEREIN) AND IMPLIED WARRANTIES WITH RESPECT TO THE GOODS INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
- 3.02. MANUFACTURER MAKES NO WARRANTY AS TO THE DESIGN, CAPABILITY, CAPACITY, OR SUITABILITY FOR USE OF THE GOODS.
- 3.03. EXCEPT AS PROVIDED HEREIN, MANUFACTURER SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO PURCHASER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS, OR DAMAGE CAUSED OR ALLEGED TO BE CAUSED DIRECTLY OR INDIRECTLY BY THE GOODS INCLUDING, BUT NOT LIMITED TO, ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES RESULTING FROM THE USE OR OPERATION OF THE GOODS OR ANY BREACH OF THIS WARRANTY. NOTWITHSTANDING THE ABOVE LIMITATIONS AND WARRANTIES, MANUFACTURER'S LIABILITY HEREUNDER FOR DAMAGES INCURRED BY PURCHASER OR OTHERS SHALL NOT EXCEED THE PRICE OF THE GOODS.
- 3.04. NO ACTION ARISING OUT OF ANY CLAIMED BREACH OF THIS WARRANTY OR TRANSACTIONS UNDER THIS WARRANTY MAY BE BROUGHT MORE THAN TWO (2) YEARS AFTER THE CAUSE OF ACTION HAS OCCURRED.

4. MISCELLANEOUS.

- 4.01. Proper Venue for any lawsuits arising from or related to this limited warranty shall be only in Guadalupe County, Texas.
- 4.02. Manufacturer may waive compliance with any of the terms of this limited warranty, but no waiver of any terms shall be deemed to be a waiver of any other term.
- 4.03. If any provision of this limited warranty shall violate any applicable law and is held to be unenforceable, then the invalidity of such provision shall not invalidate any other provisions herein.
- 4.04. Applicable law may provide rights and benefits to purchaser in addition to those provided herein.

KEEP FOR YOUR RECORDS

ATTENTION: Purchaser should fill in the blanks below for his reference when buying repair parts and/or for proper machine identification when applying for warranty.

M&W Implement Model _____ Serial Number _____

Date Purchased _____ Dealer _____

ATTENTION:
READ YOUR OPERATOR'S MANUAL

M&W
An Alamo Group Company
1020 South Sangamon Ave.
Gibson City, Illinois 60936
217-784-4261





TO THE OWNER/OPERATOR/DEALER

To keep your implement running efficiently and safely, read your manual thoroughly and follow these directions and the Safety Messages in this Manual. The Table of Contents clearly identifies each section where you can easily find the information you need.

The OCCUPATIONAL SAFETY AND HEALTH ACT (1928.51 Subpart C) makes these minimum safety requirements of tractor operators:

REQUIRED OF THE OWNER:

1. Provide a Roll-Over-Protective Structure that meets the requirements of this Standard; and
2. Provide Seatbelts that meet the requirements of this paragraph of this Standard and SAE J4C; and
3. Ensure that each employee uses such Seatbelt while the tractor is moving; and
4. Ensure that each employee tightens the Seatbelt sufficiently to confine the employee to the protected area provided by the ROPS.

REQUIRED OF THE OPERATOR

1. Securely fasten seatbelt if the tractor has a ROPS.
2. Where possible, avoid operating the tractor near ditches, embankments, and holes.
3. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
4. Stay off slopes too steep for safe operation.
5. Watch where you are going - especially at row ends, on roads, and around trees.
6. Do not permit others to ride.
7. Operate the tractor smoothly - no jerky turns, starts, or stops.
8. Hitch only to the drawbar and hitch points recommended by the tractor manufacturer.
9. When the tractor is stopped, set brakes securely and use park lock, if available.

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- Keep children away from danger all day, every day...**
 - Equip tractors with rollover protection (ROPS) and keep all machinery guards in place...**
 - Please work, drive, play and live each day with care and concern for your safety and that of your family and fellow citizens.**

