

OPERATOR'S MANUAL

INSTALLATION • OPERATION • MAINTENANCE
SAFETY PRECAUTIONS • REPAIR PARTS



Model: M2000

2,000 Lb. MAXIMUM
LIFTING CAPACITY

SERIAL NO. _____

⚠ CAUTION

THIS EQUIPMENT CAN BE POTENTIALLY DANGEROUS. THIS MANUAL MUST BE STORED WITH THE EQUIPMENT. ALL INFORMATION AND INSTRUCTIONS CONTAINED IN THIS MANUAL MUST BE READ IN FULL BY ALL OPERATORS OF THIS SYSTEM, AS WELL AS PERSONNEL SUPERVISING THE OPERATION OF THIS EQUIPMENT. FAILURE TO DO SO MAY RESULT IN UNSAFE CONDITIONS THAT COULD RESULT IN INJURY OR DEATH. IF ANY INSTRUCTIONS ARE UNCLEAR, CONTACT THE MANUFACTURER FOR CLARIFICATION PRIOR TO USE OF THE CRANE.

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Available at Contractor's Solutions www.contractors-solutions.net

READ THIS FIRST

THIS MANUAL CONTAINS VERY IMPORTANT INFORMATION

ABOUT THE INSTALLATION AND OPERATION OF YOUR WESTERN MULE CRANE. FOR YOUR OWN SAFETY AND THAT OF FELLOW WORKERS, READ THIS MANUAL COMPLETELY PRIOR TO ATTEMPTING INSTALLATION OR OPERATION OF THE WESTERN MULE CRANE.

The information in this manual is intended to help insure that your Western Mule Crane is installed properly and operated safely.

Although every effort has been made to make this manual complete and understandable, it is not a definitive guide to every possible situation or circumstance.

The safe operation of this product is directly dependent on the operator's skill, knowledge and judgment.

To avoid hazardous situations, every operator must be knowledgeable with appropriate safety guidelines, codes and regulations that are applicable. Remember that a uniformed or careless operator can make the operation of any equipment dangerous.

Ultimately the owner/operator must make the final decision as to how this product will be used and whether that intended use is safe. Keep in mind that every piece of equipment has its limitations.

After reading this manual in its entirety, should you have any questions regarding the installation or the safe use/operation of a Western Mule Crane, contact your Dealer or Western Mule Cranes Customer Service Department for assistance.

Replacement manuals are available from your Dealer or:

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M2000-0412

A WORD TO THE OWNER/EMPLOYER, OPERATOR AND SERVICE PERSONNEL ABOUT SAFETY

This manual was written with the safety of the operator and others who work around this equipment as our goal.

IT IS THE OWNER/EMPLOYERS' RESPONSIBILITY to know the specific requirements, governmental regulations, precautions and work hazards which may exist. You should make these known to all personnel who are working with the equipment or in the work area, so all necessary precautions and required safety procedures are followed. Failure to heed these instructions can result in serious personal injury and or death.

IT IS THE OWNER/EMPLOYERS' RESPONSIBILITY to instruct and insure that all operators understand the safe operation of the Western Mule Crane and to provide the operator with properly maintained equipment.

Anyone who will operate, service or work around this crane should first read and fully understand this manual. Death or serious personal injury can result from improper use or maintenance of this Western Mule Crane.

IT IS YOUR RESPONSIBILITY to operate and maintain your Western Mule Crane with skill, good judgment, and caution. Following recognized safety procedures will help prevent accidents. Modification to any part of the Western Mule Crane can create a safety hazard and therefore shall not be made without the manufacturer's prior approval. Use only factory-approved parts to repair or maintain the Western Mule Crane.

Keep children, visitors, and unauthorized personnel away from the work area.

Be capable, careful, and concerned!

Make safety your everyday business!

INTRODUCTION

WESTERN MULE CRANES have been engineered to provide safe, trouble-free, dependable service for many years when these products are properly used and maintained.

To assist you in obtaining the best service from your crane and to avoid untimely failure of the unit and/or the vehicle on which it is mounted, the following operating and service instructions are herein published. It is specifically recommended that all operating and service personnel consider this manual as mandatory material for reading and study before operating or servicing of Western Mule Products. It is highly recommended that crane owner, equipment managers, and supervisors also read this manual.

Remember that the crane adds weight to the vehicle and may change the driving and riding characteristics of the vehicle on which it is mounted. The payload of the vehicle is also reduced by the amount that the crane weighs, (CAUTION! be sure with the additional weight of the crane, you do not exceed the maximum gross vehicle weight rating for the vehicle) and as the vehicle is loaded, care should be exercised not to overload the vehicle. Exercising care in distributing the payload on the vehicle will greatly improve the driving and riding characteristics of the vehicle.

Western Mule Cranes are powered directly by your 12-volt truck electrical system. The power cable is included with each crane. The performance of your new crane depends on the truck electrical system. The minimum recommended alternator and battery size that will give the longest life with the most useful duty cycle is a 80 amp. alternator with a 500 cold cranking rated battery.

In the event that Western Mule Cranes receives a warranty claim, it is our policy to respond to the claim as promptly as possible. If material or workmanship is involved immediate, corrective action is taken. It is therefore, understandable that Western Mule Cranes will not assume responsibility, or liability, when one of our products has obviously been abused, misused, overloaded, or otherwise damaged by inexperienced persons trying to operate the equipment without ever reading this manual. The Western Mule is designed and built to be safe and efficient. Western Mule Cranes will not assume responsibility or liability for any unit which has been modified, changed, or has unauthorized, unapproved components installed.

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INTRODUCTION

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Western Mule Cranes maintains a strong Distributor network and knowledgeable Customer Service Department. In most cases, equipment related problems could be solved through a telephone conversation with a service representative. If through no fault of Western Mule Cranes it becomes necessary to send an experienced factory technician on a field call, all charges incurred will be billed to the customer.

The Occupational Health and Safety Act of 1970 state that it is the employer's responsibility to provide a work place free of hazard. To accomplish this, all equipment should be installed, operated, and maintained in compliance with applicable trade, industrial, federal, state, and local regulations. It is the responsibility of the equipment owner to obtain copies of these regulations and, from these, to determine the suitability of the equipment to any particular use.

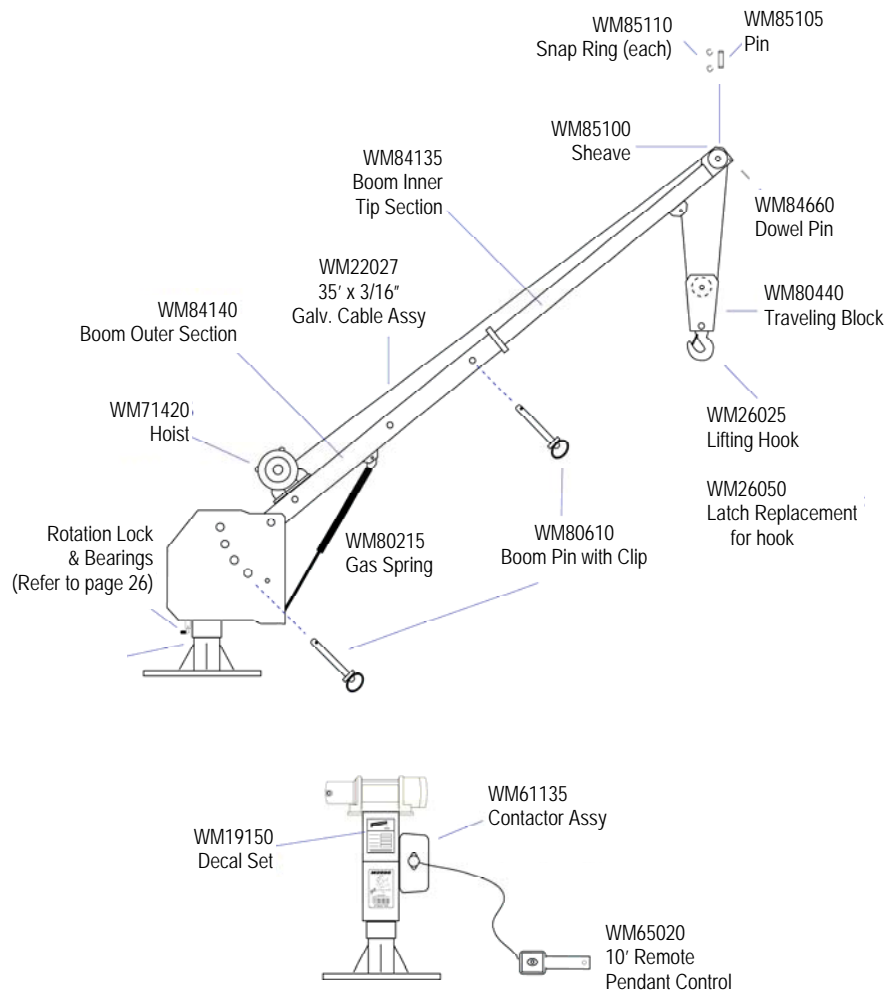
This owner's manual and all labels attached to the product are intended to serve as guidelines for hazard free installation, operation, and maintenance. They are not however, intended to prepare the user for every possible situation.

It is the responsibility of the equipment owner to keep this owner's manual, all labels legible, and available with the crane at all times. If they should become lost or illegible, immediately order replacements from the factory.

The material herein does not imply to cover all maintenance instructions, operating instructions, or variations to every possible situation. If additional information is required, please refer to Western Mule Cranes the following telephone number (559) 266-6977. The information contained in this manual was in effect at the time of printing. Western Mule Cranes reserves the right to update this manual at any time without notice.

ILLUSTRATION

Refer to this illustration until you become familiar with the operation of the crane.



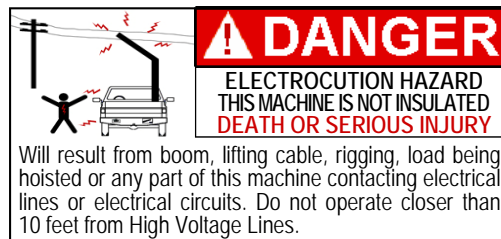
GENERAL OPERATION

⚠ CAUTION

THE FOLLOWING CONTAINS SOME GENERAL PRECAUTIONS THAT MUST BE CAREFULLY FOLLOWED WHEN INSTALLING, OPERATING, OR MAINTAINING A WESTERN MULE CRANE.

This Crane **must be** operated by persons, both qualified and trained, in its safe use, only in accordance with the manufacturer's instructions and applicable governmental safety requirements.

READ AND OBEY ALL information contained in this operator's manual and on all placards and decals attached to the Western Mule Crane. A careless or untrained operator can make the use of any equipment dangerous and may cause property damage, serious personal injury, and/or death.



KEEP ALL bystanders clear of the operation area to prevent obstruction of the operation and/or to avoid serious personal injury and/or death.

KEEP hands away from sheaves, lifting cable, pinch points and, moving parts of the crane, which may cause serious personal injury and/or death.

ALWAYS be certain the rigging that you intend to use is capable of withstanding the load. Never wrap the lifting cable around load. This will cause damage to the lifting cable.

DO NOT divert your attention from the Western Mule Crane while an operation is being performed.

CONSTANTLY check for signs of damage or poor operation. Make sure that the load remains unobstructed and securely attached.

AVOID lifting loads over persons or the operator himself. To do so may cause serious personal injury and/or death.

GENERAL OPERATION

NEVER operate the crane in the stored position. Cable failure will result!

SHOULD avoid continues use of the crane to prevent overheating of the electric motor.

DO NOT operate the Western Mule Crane if signs of damage or poor operation are noticed. To do so may result in property damage, serious personal injury, and/or death. Place a “**DO NOT USE - CRANE OUT OF ORDER**” sign on the Western Mule Crane and in the vehicle. Do not use until the Western Mule Crane is repaired by a qualified maintenance person who has seen to the complete correction of the problem and inspection of the crane removes the signs.

KNOW the weight of the load you are lifting to avoid overloading the Western Mule Crane.

DO NOT overload the Western Mule Crane or exceed the load rating of the weakest component in the system (I.E. the lifting cable, sling, lifting attachment, etc.). Overloading may result in damage and/or failure of the equipment, which may lead to serious personal injury and/or death.

DO NOT use two cranes to move a load that is greater than the load rating of a single crane. A shift in the load may place all the weight on one crane, which may overload the equipment and/or cause it to fail.

MAKE SURE That a minimum of five (5) wraps of lifting cable are always maintained on the hoist drum at all times.

ALWAYS keep your hands away from the lifting cable while tensioned and from moving parts while in use.

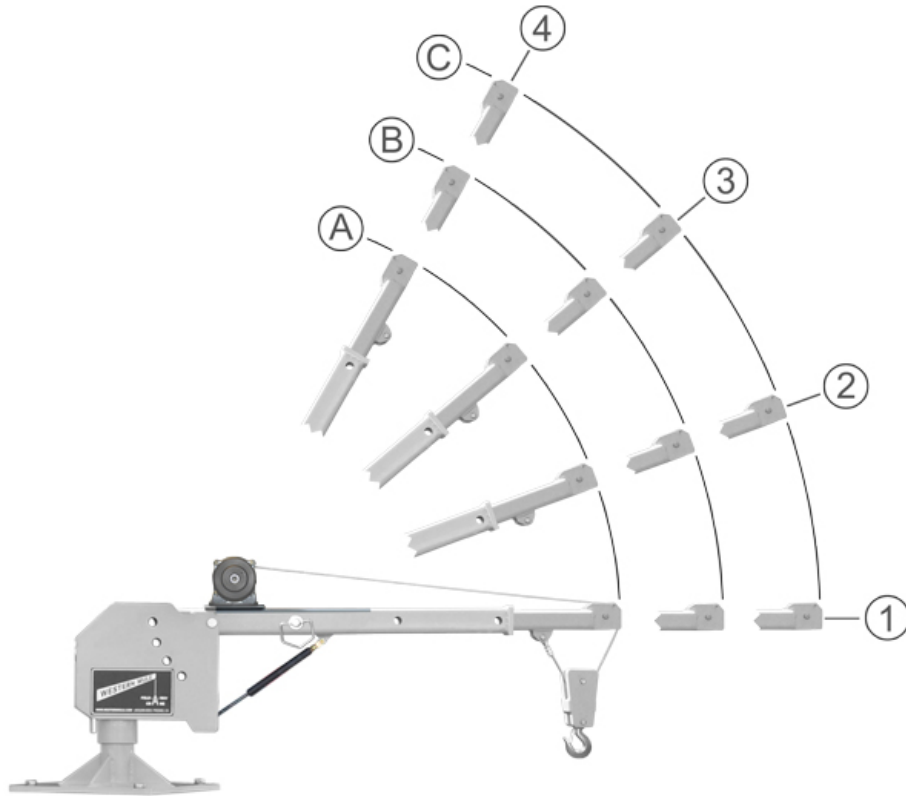
NEVER handle the lifting cable/rigging while someone else is at the controls.

DO NOT shock load/bounce or swing the load. Such violent motions may momentarily exceed the cranes maximum load rating. Overloading the Western Mule Crane may cause the crane to fail or cause serious personal injury and/or death.

DO NOT SIDE LOAD THE WESTERN MULE CRANE. The Crane shall not be used for dragging or pulling loads sideways across a surface. To do so may strain the equipment resulting in its damage and/or failure.

DO NOT alter or modify the Western Mule Crane or any of its components. Do not operate the crane using any form of power other than that which it is specifically intended to use. To do so may reduce the load rating of the crane and/or cause the crane to fail.

LOAD CHART



Weight (lbs.)

Boom Position	A	B	C
4	2000	1900	1750
3	1775	1625	1450
2	1500	1375	1175
1	1350	1125	900

SETTING UP VEHICLE AT THE JOB SITE

CAUTION

ONE OF THE MOST IMPORTANT PREREQUISITES TO PROPER SET UP ON JOB SITE IS TO THOROUGHLY PLAN THE LIFT BEFORE POSITIONING THE VEHICLE.

1. Vehicle should be positioned in an area free from obstructions to allow performance of the entire task without repositioning the vehicle.
2. The vehicle brakes shall be set.
3. Wheel chocks (blocks) shall be installed before using the Western Mule Crane.
4. **ALWAYS** remove the vehicles keys from the ignition. All keys shall be in the possession of the worker designated to be responsible for the operation of the Western Mule Crane.
5. **ALWAYS** Position tip of boom directly over load to be hoisted.
6. **INSPECT** the Western Mule Crane before operation. Any defects should be corrected immediately.

NOTE: **ALWAYS** disengage rotation lock before starting lift.

MAKING THE LIFT

This section is designed to present some of the general precautions that must be taken by the operator when making a lift with the Western Mule Crane.

WEAR a protective hard hat while raising loads.

NEVER stand beneath a load.

DO NOT exceed load limits of the Western Mule Crane as shown on the warning decals.

NOTE: Crane ratings are based upon crane lifting capacity. Not the crane's stability.

KEEP tension on the lifting cable at all times.

NEVER wrap lifting cable around load.

NEVER pull the lifting hook or hook eye fittings into the boom sheaves.

ALWAYS center the tip of the boom over the load to be lifted.

NEVER attempt to side load, drag or pull loads across a surface.

NOTE: To do so may strain the crane, resulting in damage and/or failure

ALWAYS maintain a minimum of five (5) wraps of lifting cable on the hoist drum.

BE SURE that the load is well secured and properly balanced in the sling or lifting device before it is lifted more than a few inches.

ALWAYS allow the load to come to a full stop before reversing direction.

NEVER raise the load being lifted any higher than needed when moving the load.

KEEP work area clear. **DO NOT** allow unauthorized people in the work area while lifting a load.

NEVER place a chain link on the tip of the lifting hook or attempt to lift a load from the tip of the lifting hook.

DO NOT leave suspended load unattended.

DO NOT attempt any service or repair while the Western Mule Crane is operating.

NEVER use a sling or anything larger than the hook throat that could prevent the latch from closing when lifting a load.

LEAVING THE JOB SITE

1. Return the crane to its stored position. Do not over tighten the lifting cable while stored.
2. Return outriggers to their stored position.
3. Remove and store pendant control.
4. Report any unusual occurrence during crane operation that may require maintenance or repair.

CAUTION

NEVER MOVE THE VEHICLE WITH THE BOOM IN THE RAISED POSITION, OR WITH A LOAD SUSPENDED FROM IT.

FURTHER SUGGESTIONS

This section is designed to present some of the general precautions that must be taken by the operator when making a lift with the Western Mule Crane.

WEAR a protective hard hat while raising loads.

NEVER stand beneath a load.

DO NOT exceed load limits of the Western Mule Crane as shown on the warning decals.

NOTE: Crane ratings are based upon crane lifting capacity. Not the crane's stability.

ALWAYS use an outrigger (support leg) (optional WA-15 or WA-34) during crane operation. Insure that it is firmly positioned on a solid footing using a pad under the outrigger if necessary due to soft/uneven ground.

ALWAYS secure the support arm to the mast with the fast pin.

KEEP tension on the lifting cable at all times.

NEVER wrap lifting cable around load.

Continued next page...

FURTHER SUGGESTIONS

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DO NOT stand between the load and the vehicle.

NEVER pull the lifting hook or hook eye fittings into the boom sheaves.

ALWAYS center the tip of the boom over the load to be lifted.

NEVER attempt to side load, drag or pull loads across a surface.

NOTE: To do so may strain the crane, resulting in damage and/or failure.

ALWAYS maintain a minimum of five (5) wraps of lifting cable on the hoist drum.

KEEP tension on the lifting cable at all times.

BE SURE that the load is well secured and properly balanced in the sling or lifting device before it is lifted more than a few inches.

ALWAYS allow the load to come to a full stop before reversing direction.

NEVER raise the load being lifted any higher than needed when moving the load.

KEEP work area clear. **DO NOT** allow unauthorized people in the work area while lifting a load.

NEVER place a chain link on the tip of the lifting hook or attempt to lift a load from the tip of the lifting hook.

DO NOT leave suspended load unattended.

DO NOT tow another vehicle with the crane.

DO NOT attempt any service or repair while the Western Mule Crane is operating.

NEVER use a sling or anything larger than the hook throat that could prevent the latch from closing when lifting a load.

ROTATION LOCK

(OPTION) WO-14

The optional Rotation Lock feature is available on most models of the Western Mule Cranes. This feature offers an advantage in many lifting and lowering situations, where it may be desirable to hold the boom in a fixed point of rotation.

TO DISENGAGE THE ROTATION LOCK:

Push up on the Rotation Lock Lever and turn. Placing it in this position dis-engages the Rotation Lock.

TO ENGAGE THE ROTATION LOCK:

Place the boom at the desired position of rotation, and turn the Rotation Lock Lever. The Lock will now engage to hold the boom at one of 12 points rotation. (It may be necessary to rotate the boom one way or the other slightly before it engages).

When using the Rotation Lock:

ALWAYS start all lifts with the Rotation Lock Disengaged. (If the tip of the boom is not directly over the load, side loading will result in damage to the Rotation Lock)

NEVER attempt to drag a load or induce any side loading to the boom. Doing so may cause damage to the Rotation Lock and also overload the Western Mule Crane.

NEVER swing a load suspended from the lifting cable while the Rotation Lock is engaged or at any time while a load is suspended.

NEVER work on a load while it is suspended on the lifting cable.

DO NOT engage the Rotation Lock while the mast/boom are rotating. Always bring the rotation of the mast/boom to a halt and then engage the Rotation Lock.

PREPARING FOR INSTALLATION

CAUTION

THE MANUFACTURER CANNOT FORESEE THE MANY VARYING TYPES OF PLATFORMS THAT INSTALLATIONS MAY BE PERFORMED ON. EACH INSTALLATION SHOULD BE EVALUATED BEFOREHAND TO ENSURE THAT THE STRUCTURAL INTEGRITY IS SUFFICIENT TO HANDLE THE EXTRA WEIGHT OF THE CRANE WITH THE MAXIMUM LOAD RATING OF THE CRANE, AS WELL AS SHOCK LOADING THAT MAY OCCUR.

BEFORE installing the Western Mule Crane, consult applicable codes and regulations for specific instructions and rules regarding the installation of mobile cranes.

DO NOT install the Western Mule Crane in an area that contains corrosive chemicals, combustible materials, explosives or other elements which may cause property damage, serious personal injury and/or death.

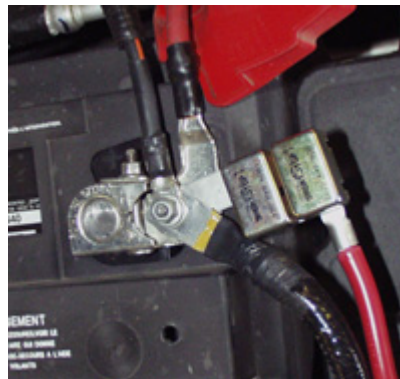
DO NOT install the Western Mule Crane on a vehicle or platform that is not in good sound mechanical working condition.

ALWAYS CHECK location of fuel tanks, fuel lines, brake lines, wiring, or other hazards, before drilling, cutting, welding to or on the vehicle.

BEFORE placing the Western Mule Crane into service, thoroughly inspect it

INSTALLATION

1. Unbox the Western Mule Crane and check the packing slip to verify contents.
2. Determine where the Western Mule Crane is to be mounted, insuring that the structural integrity is sufficient to handle the loads that the vehicle or platform will be subjected to while lifting with the crane. Try to anticipate the size of the object to be loaded and load placement.
3. It will be necessary to reinforce the underside of the truck bed. One method is using a bottom plate 3/8" thick or larger, mounted to the underside of the bed, under the crane base plate. The bottom plate should be large enough to cover the 4 holes in the mounting base of the crane and long enough to reach the vehicle frame. Each application will vary.
4. Before drilling holes in the bed, check underside of bed for location of frame and cross members. Mark and drill holes using base plate as the guide. (**Before drilling of holes**, be sure and avoid wiring, brake and fuel lines, and fuel tanks)
5. Fasten the crane to the vehicle or platform, using no less than four (4) 9/16" grade 8 bolts. (Refer to page 19 for torque specifications)
6. The shortest of the two power leads is the GROUND (-). Attach this lead to the truck frame and attach securely using the supplied crimp type ring terminal.
7. Attach circuit breaker to the **POSITIVE SIDE (+)** of the battery or 12 VDC power source. The circuit breaker acts as a safety switch in case of a short circuit or overloading of the Western Mule Crane.
8. Route power lead wire from the crane to the circuit breaker at the battery. Secure to frame using wire ties. Avoid routing next to fuel lines, brake lines, fuel tank, exhaust system, or any moving parts.



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INSTALLATION

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CAUTION

DO NOT TIE WIRE TO ANY PART OF FUEL SYSTEM OR BRAKE SYSTEM. KEEP WIRE AWAY FROM HOT OR MOVING PARTS.

DO NOT OPERATE HOIST WITHOUT CIRCUIT BREAKERS OR DO NOT BYPASS BREAKERS. BYPASSING CIRCUITS CREATES A FIRE HAZARD AND IS DANGEROUS TO THE PERSONAL SAFETY OF THE OPERATOR

9. Attach the power lead to the circuit breaker. If the lead is too long, it should be cut to length. Crimp the supplied connector to the shortened power lead. Secure these wires with the supplied cable ties.
10. Plug in the remote pendent control into the control box receptacle. Check crane operation. Lifting cable should power up and down. Keeping tension on the lifting cable at all times.
11. Inspect crane fully before placing in operation. Recheck all bolts, electrical connections and wiring to see they are secure.
12. Your crane is now ready for operation. Refer to operation section of this manual before operating. Read it carefully and follow all instructions for proper and safe procedures.

BOLT TORQUE SPECIFICATIONS

Table 1

UNC Size	Grade 8 Tightening Torque
9/16" - 12	150 +/- 15
5/8" - 11	215 +/- 15

NOTE: Torque values are in foot-pounds. Torque values specified are with residual oils or no special lubricants applied to the bolts. If special lubricants of high stress ability, such as never-seize compound, graphite, oil or molybdenum disulfide, etc. are used multiply the torque figures in the chart by a factor of .90.

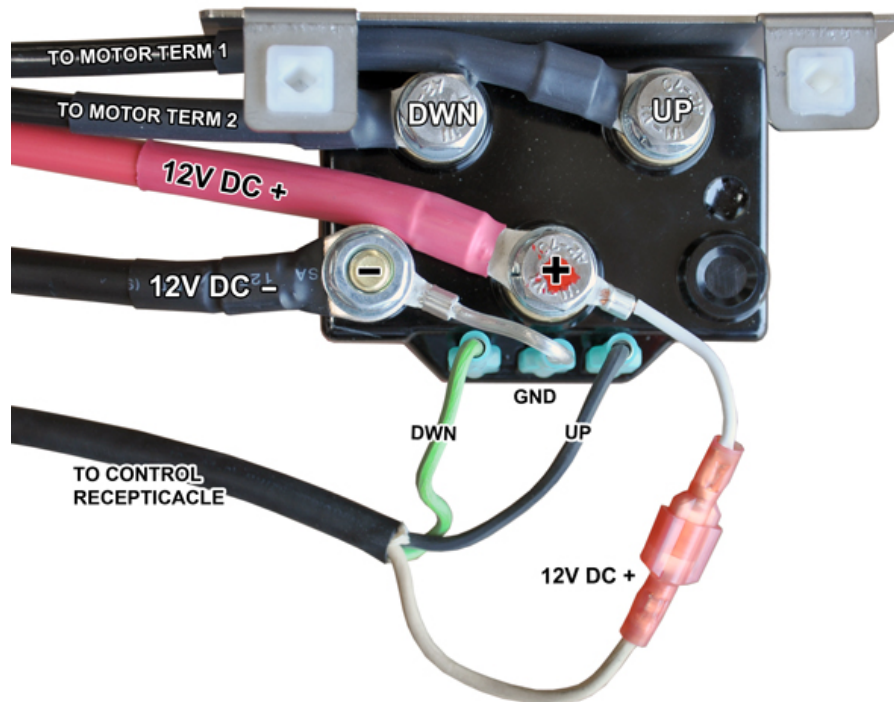
Torque values for bolts listed above are not affected with the use of Loctite or similar product. Hardened washers should be used with Grade 8 or better bolts.

CAUTION

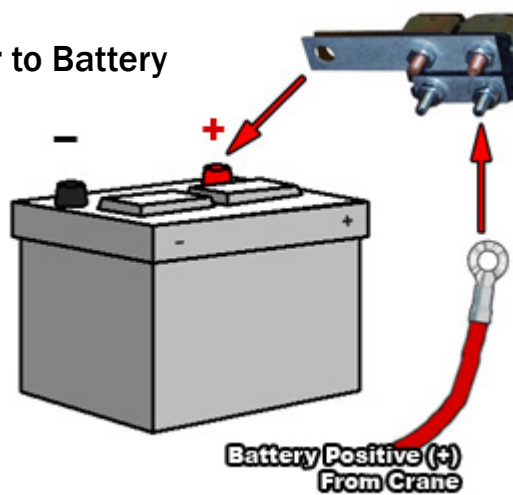
ALWAYS WEAR SOME FORM OF HAND PROTECTION. LIFTING CABLE CAN CAUSE SERIOUS INJURY TO YOUR HANDS.

WIRING DIAGRAM

Control Box



Circuit Breaker to Battery



DAILY INSPECTION

WARNING

SAFE OPERATION **DEPENDS ON YOU**, THE CONDITION OF YOUR EQUIPMENT AND YOUR MAINTENANCE AND INSPECTION PROCEDURES.

The single most important factor in the prevention of equipment failures and accidents is a positive attitude towards safety. The habit of anticipating possible problems normally prevents many accidents from occurring.

The crane shall be inspected by the user daily before each use and additionally by a competent person other than the user at periodic intervals.

Inspection checks **must be** performed. Below are several important inspections that should be performed before and during **each** operation of the Western Mule Crane.

1. **FASTENERS** – visually check all pins, retainers, bolts, and nuts. Check for presence and proper tightness.
2. **SHEAVES** – check for lifting cable wear, cracks and ease of rotation. If they do not turn freely or the bushings in the sheaves are worn, replace them immediately.
3. **LIFTING CABLE** – check for frayed edges, broken strands, kinks, and flat spots. If damaged, replace before use. *(See page 23 for cable inspection procedures)*
4. **HOIST** – check lifting cable for proper spooling on the hoist drum.
5. **CRANE HOOKS** – check hook and safety catch for twist or distortion. *(See page 23 for hook inspection procedures)*
6. **OPERATING PLACARDS AND SAFETY DECALS** – check for missing, illegible, defaced decals and placards.
7. Make necessary repairs of the above items and/or replacements before operating the Western Mule Crane.

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DAILY INSPECTION

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WARNING

DO NOT OPERATE THE WESTERN MULE CRANE IF SIGNS OF DAMAGE OR POOR OPERATION, ARE NOTICED To DO SO MAY RESULT IN PROPERTY DAMAGE, SERIOUS PERSONAL INJURY AND/OR DEATH. PLACE A “**DO NOT USE CRANE OUT OF ORDER**” SIGN ON THE WESTERN MULE CRANE AND IN THE VEHICLE. Do NOT USE UNTIL THE WESTERN MULE CRANE IS REPAIRED AND A QUALIFIED MAINTENANCE PERSON WHO HAS SEEN TO THE COMPLETE CORRECTION OF THE PROBLEM AND INSPECTION OF THE CRANE, REMOVES THE SIGNS.

D & S Sales recommends and government regulations require that an employer shall perform frequent and periodic inspections and maintain results of these inspections for each Western Mule Crane and that a competent person shall make a thorough annual inspection of the crane. The employer shall maintain a record of the dates and results of the inspections for each crane and its optional equipment.

INSPECTION OF LIFTING CABLE AND HOOK

Many variable factors can cause the deterioration of the lifting cable that it is not possible to pre-determine a definite life expectancy.

Some of the contributing factors are:

Load being lifted, corrosive conditions, and maintenance of the Western Mule Crane, such as sheaves not turning freely, improper spooling on hoist drum, kinks in lifting cable, abrasive action and contact with sharp corners, storing crane with lifting cable excessively tight, and frequency of use.

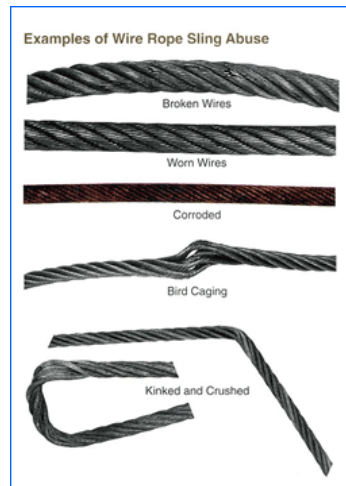
Keeping the working load ratings in mind and knowing the kind of loads that will be handled, the user can determine by inspection of the lifting cable as to when the lifting cable should be replaced.

Items to look for while inspecting the lifting cable are:

Broken wires or strands, kinks and flattened sections, corrosion and abrasion, and distortion of the lifting cable, such as kinking, crushing, etc.

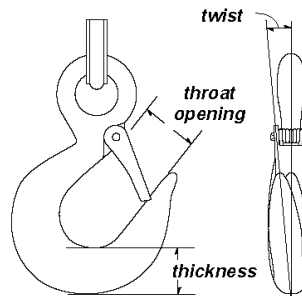
⚠ WARNING

STOP USING THE HOIST AND REPLACE THE LIFTING CABLE OR HOOK IF ANY OF THE DEFECTS LISTED ARE FOUND.



Items to look for while inspecting the lifting hook are:

Bent or twisted hook, damaged or non-operable safety latch, and if hook is securely attached to the lifting cable.



CABLE REPLACEMENT

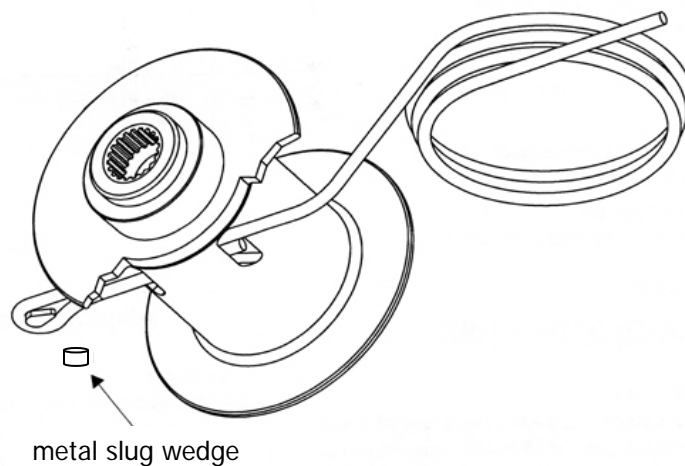
The lifting cable must be installed and spooled as shown in the illustration below, or the brake **MAY NOT FUNCTION**.

If it becomes necessary to replace the lifting cable, use only the minimum recommended cable size for your crane model noted on the cranes serial plate.

INSTALLING LIFTING CABLE

PLEASE READ ALL STEPS BEFORE PROCEEDING.

1. Disconnect the Remote Pendant Control, to insure the crane is not operated during this procedure
2. Insert cable through slot in drum as shown below.
3. Form a loop and reinsert end into slot. The "live" or load carrying portion of the lifting cable must be closest to the drum flange.
4. Insert the wedge or hex nut (7/16 in.) supplied with the hoist into loop and pull live end of lifting cable to seat the wedge or hex nut into slot. The end of the lifting cable must remain visible in the slot as shown. The wedge locks the cable in the slot.
5. With end of cable securely installed, reconnect the remote pendant control and carefully wind the cable evenly onto drum. Keep cable under tension at all times. It may be necessary to assist the tracking of the cable onto the spool. Always maintain a minimum of five (5) wraps of cable on the drum. Fewer wraps may cause the end of the cable to pull free of the drum and drop the load.

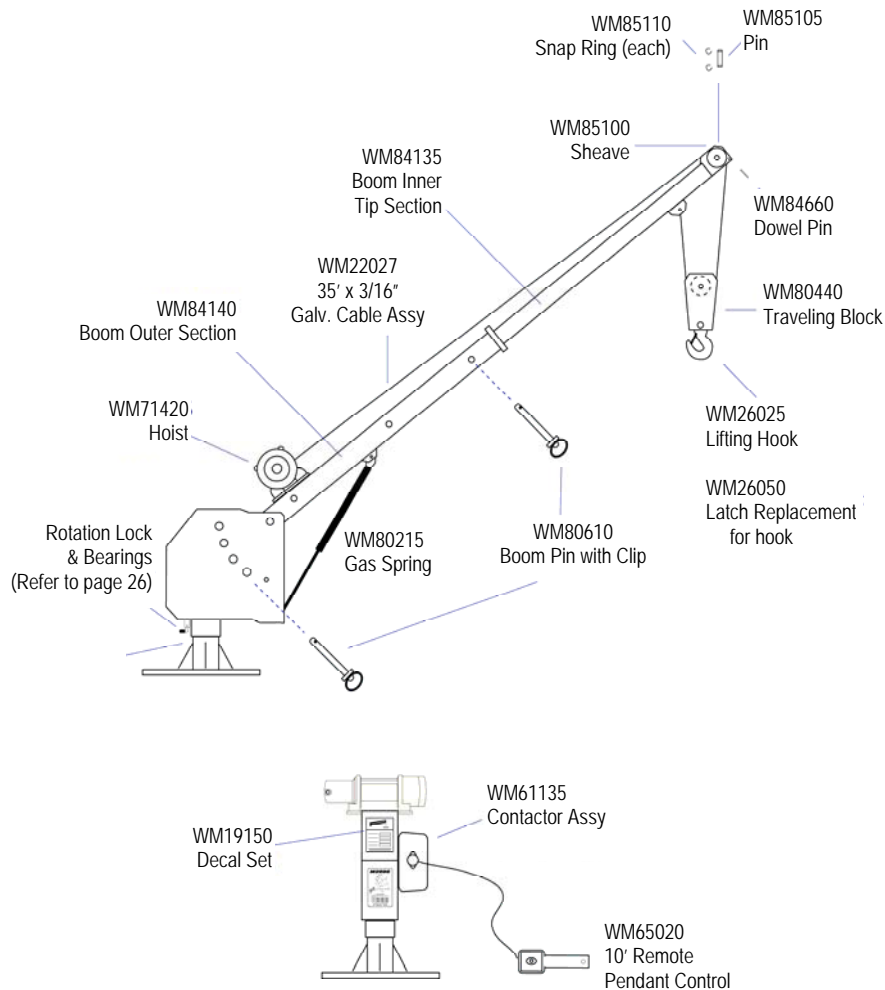


⚠ CAUTION

ALWAYS WEAR SOME FORM OF HAND PROTECTION. LIFTING CABLE CAN CAUSE SERIOUS INJURY TO YOUR HANDS.

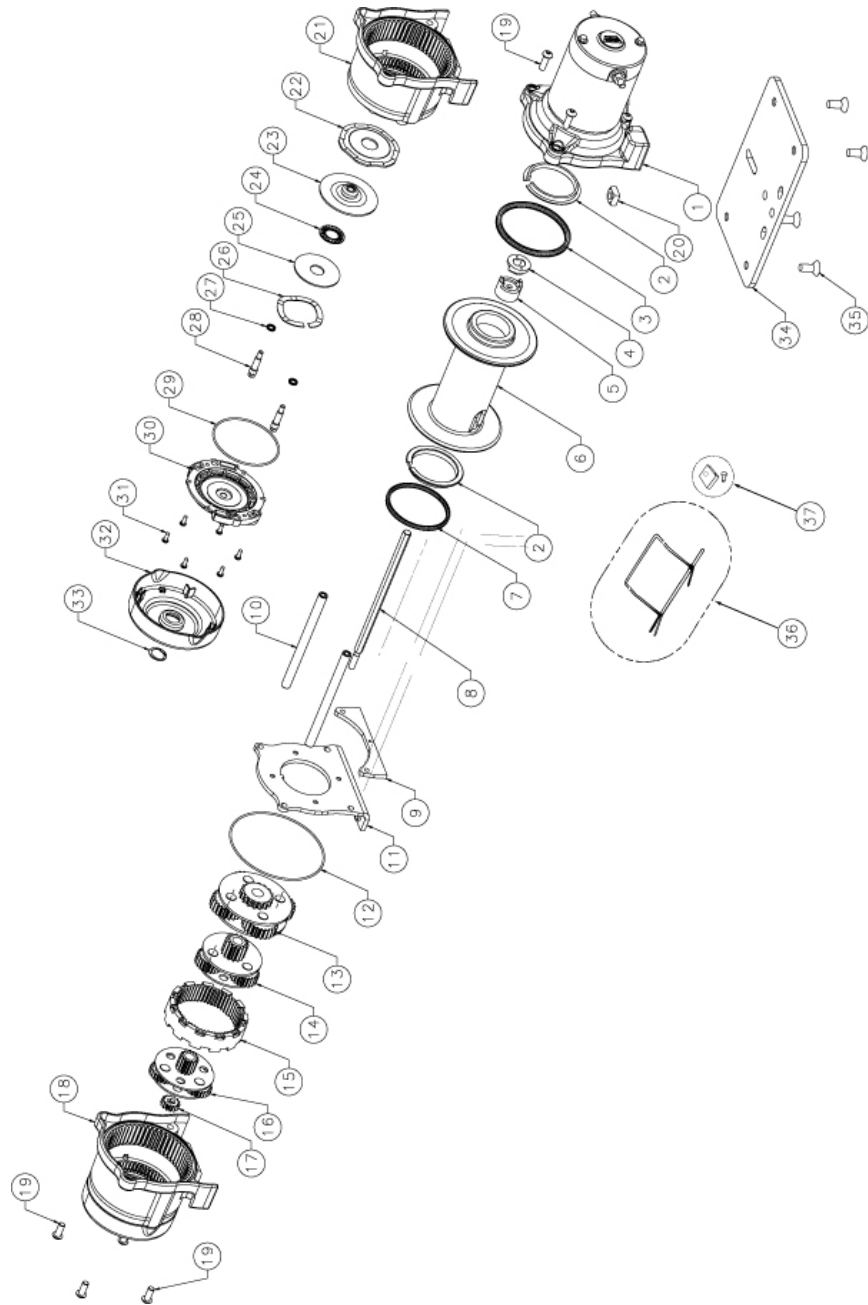
M2000 PARTS DIAGRAM

When ordering parts, please supply the part number along with the crane's model and serial number. Parts may be obtained through your local dealer or distributor.



HOIST PARTS

Crane's Serial# Required when ordering Hoist Parts.

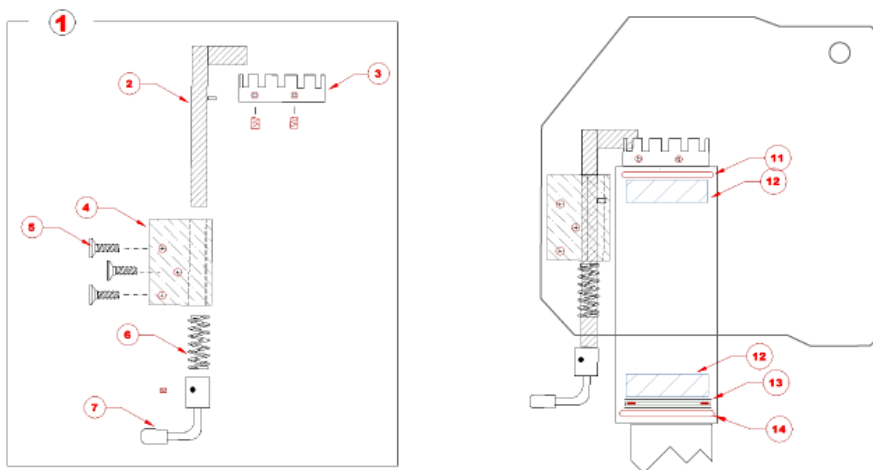


HOIST PARTS

Key	Description	Item/Kit No.
1	MOTOR, ASSY, BOSCH	WM76235
2	BUSHING, DRUM, A2000	W69637
6	DRUM, HOIST, UTV, 4.0CI, ALUM	W74924-S
8	SHAFT, DRIVE, HEX, HOIST, 4000	W74998-S
13	CARRIER ASSY, STAGE 3, 2.5	W75005
14	CARRIER ASSY, S2, 3.1	W75004
15	GEAR, RING, PM, ODC, 2.5	W74918
16	CARRIER ASSY, S1, 3.1	W75003
17	GEAR, SUN, 14T, S1	W75001
18	HOUSING, GEAR, HOIST, ATV, MACHINED	W74919
30	CAP, CLUTCH, HOIST, ATV	W79594
36	Level Wind Spring w/Shaft for M2000 -Type 400	WM777420
37	Level Wind Spring Mounting Block M-5 &10, M2000, P-5, Type 400,500	WM777425
	Level Wind Spring Block Mounting Screw	WM777040
	HOIST SEAL KIT	W74925
3	SEAL, DRUM, FLANGE X-RING, R WN (Qty. 1)	
7	SEAL, GEAR-SIDE, DRUM, X-RING (Qty. 1)	
12	SEAL O-RING 4.05IN NBR 70A YELLOW (Qty.1)	
27	SEAL, RING, QUAD, 1/4 IN (Qty. 2)	
29	SEAL O-RING 2.8IN NBR 70A YELLOW (Qty. 1)	
	HOIST MOTOR COUPLER KIT	W74996
4	COUPLER, MOTOR, CAM, 13.2MM (Qty. 1)	
5	COUPLER, FOLLOWER, HEX, HOIST (Qty. 1)	
	HOIST TIE ROD KIT	W75220-S
10	TIE ROD, 4.0, M6 THRD, 132.6MM (Qty. 2)	
19	CPSCR, BTN HD, M6-1.0X 16, ZN (Qty. 4)	
	WNCH DRUM SUPPORT KIT	W74917
9	PLATE, PROTECTOR, WIRE ROPE (Qty. 1)	
11	SUPPORT, DRUM, GS, 2.5 (Qty. 1)	
19	CPSCR, BTN HD, M6-1.0X 16, ZN (Qty. 2)	
	HOIST HOUSING ASSEMBLY	W74919
21	HOUSING, GEAR, HOIST, ATV, MACHINED (Qty. 1)	
22	PLATE RETAINING BRAKE RT/XT SLOTTED (Qty. 1)	
23	ROLLER DISK ASSY BRAKE RT/XT (Qty. 1)	
24	BEARING ROLLER THRUST 15mm (Qty. 1)	
25	WASHER THRUST ID 15.24mm (Qty. 1)	
26	SPRING BRAKE WAVE ATV HOIST (Qty. 1)	
29	SEAL O-RING 2.8IN NBR 70A YELLOW (Qty. 2)	
	HOIST CLUTCH GROUP KIT	W74926
28	PIN, CLUTCH, SBC, HOIST (Qty. 2)	
34	MTG PLATE FLUSH DC1000 (Qty. 1)	W82790
35	CPSCR_ FLT HX HD_M8-1.25 X20MMZINC (Qty. 4)	W75599

ROTATION LOCK HINGE ASSEMBLY (OPTION WO-14) PARTS DIAGRAM

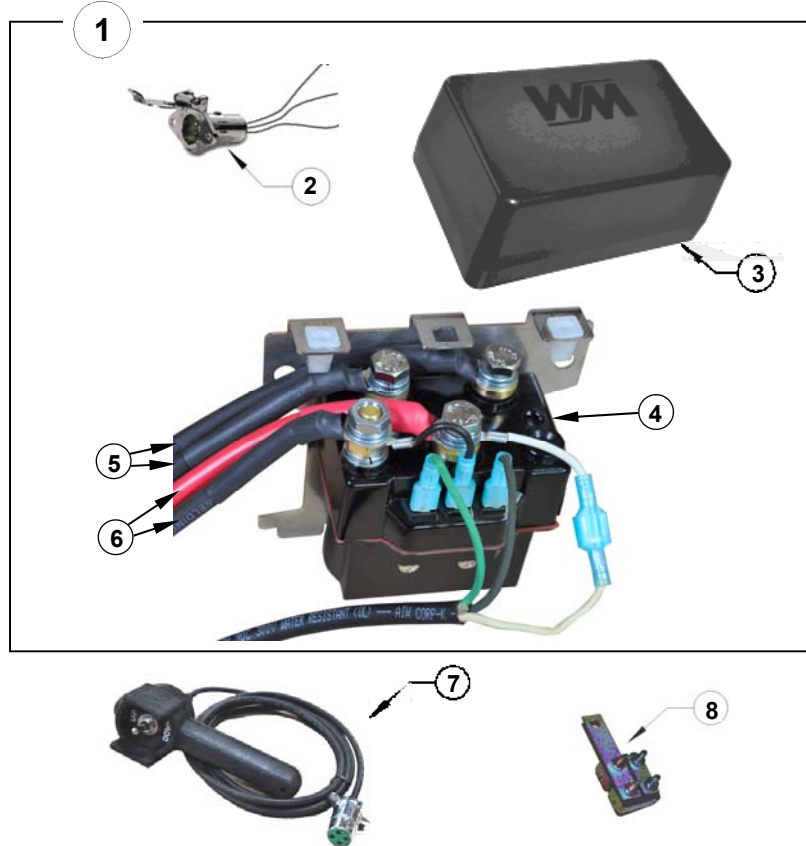
When ordering parts, please supply the part number along with the crane's model and serial number. Parts may be obtained through your local dealer or distributor.



[Crane's Serial# Required when ordering Rotation Lock parts.](#)

Key #	Part #	Description
1	WM33260	Rotation Lock Assembly (Complete Assy)
2	WM33340	Rotation Lock Shaft
3	WM33610	Rotation Lock Collar (with set screws)
4	WM33520	Rotation Lock Body
5	WM33620	Rotation Lock Mounting Screws (contains 3)
6	WM33410	Rotation Lock Spring
7	WM33450	Rotation Lock Handle (with set screw)
10	WM31160	Hinge Assembly Bearing Kit (includes 11, 12, 13, 14)
11	WM31210	O-Ring
12	WM31220	Bearing
13	WM31215	Thrust Bearing & Washers
14	WM31230	O-Ring

ELECTRICAL PARTS



Crane's Serial# Required when ordering

Key #	Part #	Description
1	WM61135	Contactors Control Assy. Power Leads #5, #6, not included)
2	WM65130	Receptacle for Pendant Control
3	WM61250	Contactors Control Assy. Plastic Cover
4	WM62020	Replacement Contactors (each)
5	WM63130	Hoist Motor Power Leads (both)
6	WM63220	Power Leads (both)
	WM61320	Backing Plate
7	WM65020	10' Remote Pendant Control
8	WM63320	Circuit Breaker

GENERAL INFORMATION

Your WESTERN MULE CRANE is designed to handle loads up to designated maximum rated lifting capacity. Do not exceed.

Practice using the crane with lighter loads, until you become familiar with the safe operation of the crane.

DO NOT overload the Western Mule Crane or exceed the load rating of the weakest component in the system (I.E. the lifting cable, sling, lifting attachment, etc.). Overloading may result in damage and/or failure of the equipment, which may lead to serious personal injury and/or death.

DO NOT SIDE LOAD THE WESTERN MULE CRANE. The Crane shall not be used for dragging or pulling loads sideways across a surface. To do so may strain the equipment resulting in its damage and/or failure.

DO NOT alter or modify the Western Mule Crane or any of its components. Do not operate the crane using any form of power other than that which it is specifically intended to use. To do so may reduce the load rating of the crane and/or cause the crane to fail.

MAKE SURE that at least a minimum of 5 wraps of lifting cable remain on the hoist drum at all times in order for the lifting cable to remain securely anchored to the hoist drum.

ALWAYS return the Western Mule Crane to its stored position before moving vehicle.

REPLACEMENT PARTS

When ordering, please supply your crane's model and serial number. Parts may be obtained through your local dealer or distributor.

PRODUCT REGISTRATION

Every effort is made to supply product updates and other information relevant to the use of this crane. To register your crane, we request that you do this online on our *Support Page* at westernmule.com click on Warranty Registration at the top of the page. If you do not have internet access, please fax or mail the enclosed warranty registration card.

WESTERN MULE CRANES

1510 Merced Street
Fresno, CA 93706
Phone (559)266-6977



FOLD-A-WAY
CRANE

1 YEAR LIMITED WARRANTY

The manufacture, warrants to the original retail purchaser it's product, the Western Mule, for twelve months (one year) from the date of delivery that your new Western Mule Crane is free from defects in material and workmanship if properly set up and operated in accordance with the recommendations set forth in the Western Mule Owner's Manual. If a date cannot be established, then the date the product was sold by the Distributor will be used.

Obligation of the manufacture, under this warranty, is expressly limited to the replacement or repair of parts, which prove defective in material or workmanship for the duration of this warranty. To make a claim under this warranty, the product must be returned, freight prepaid to the manufacture. The sole measure of damages shall be limited to the price of defective parts.

This warranty does not obligate the manufacture to bear the cost of labor in the field or transportation charges in connection with replacement or repair of defective parts.

Factory authorized repair or replacement as provided under this warranty is the exclusive remedy to the consumer. The manufacture shall not be liable for any incidental or consequential damages or for breach of any express or implied warranty on this product.

Any damage to the Western Mule, as a result of abuse, misuse, overloading, negligence, accidents, improper installation or any unauthorized alteration, repair or modifications made without written authorization by the manufacturer or any act that violates the instructions furnished by the manufacture, will void the warranty.

NO representative of the manufacture has the authority to amend or modify the warranty or to bind the company by any other warranty, guarantee or assumption of liability. There are no warranties, which extend beyond the above description and it is expressly understood and agreed that no warranty of merchantability or warranty of fitness for particular purpose, or other warranty express, implied or statutory is made.

FREIGHT CHARGES - This warranty does not cover freight charges incurred to return defective parts to the manufactures location or the shipment of replacement parts to the warranty holder.

EXCLUSION - There is no warranty on the lifting cable against breakage or fraying.

Certain limitations expressed herein are excludable in accordance with provisions of local law. Such limitations shall be deemed struck if such law is applicable. All other limitations and provisions shall continue to apply.

MANUFACTURED AND DISTRIBUTED BY

Western Mule Cranes

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Fresno, CA 93706 USA

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E-Mail: cranes@westernmule.com

www.westernmule.com

Available at Contractor's Solutions www.contractors-solutions.net

Western Mule Cranes reserves the right under its product improvement policy to change construction or design details and furnish equipment when so altered without reference to illustrations are specifications used.

Made in the U.S.A.