

OWNERS MANUAL
for
Monkey Fist™ Lifting Device



U.S. Patent # 8,651,540

monkey
 **Fist**

WARNING: To prevent tool damage and injury please read and understand the manual. This manual provides information and procedures to safely use and maintain the Monkey Fist lifting device.

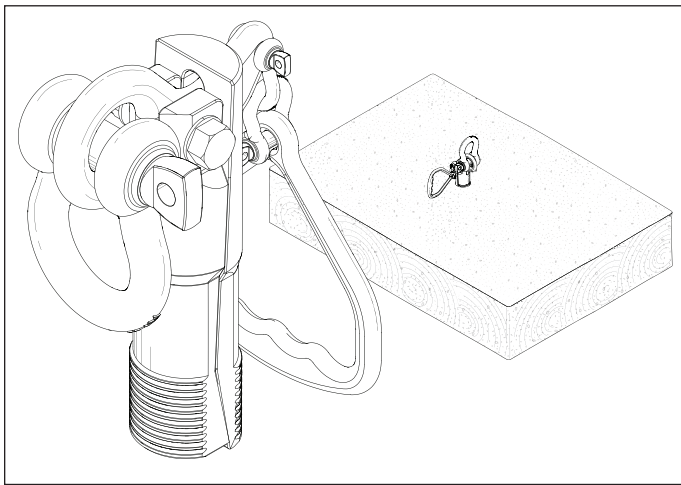


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1. Introduction

The Monkey Fist has been designed for lifting a pre-sawn slab section of concrete. These sections are typically trapped within a larger slab. Using the Monkey Fist allows removal of the slab without breaking it up. With our method, simply core drill a two inch hole in the piece being removed, insert the Monkey Fist lifting device, and lift out the pre-cut slab.



1.1 Serial Number Information

Record the serial number information from the certification tag here. Have the numbers available whenever requesting service or parts information.

Serial #: _____

Purchase Date _____



Dealer Contact Information

1.2 Contact Information

If you have questions not answered in this manual, require additional copies of the manual, or the manual is damaged, please contact your local dealer or:

Daniel Mfg., Inc.
273 County Road 1850 East
Carlock, IL 61725
USA

Phone: 309-963-4227
Fax: 309-963-5227
Web: www.danielmfg.com

1.3 Safe Operation

Safe, efficient, and trouble-free operation of the Monkey Fist lifting device requires the user to read and understand the information contained within this Owner's Manual.

Use this manual for frequent reference and to pass on to new users or owners.

WARNING



Read and Understand Manual

To prevent personal injury or even death, be sure you read and understand all of the instructions in this manual and other related OEM equipment manuals! The Monkey Fist lifting device, if not used and maintained properly, can be dangerous to users unfamiliar with its operation. Do not allow the use of this tool until the user has read this manual and has developed a thorough understanding of the safety precautions and functions of the tool.

This tool was designed for a specific application; lifting concrete slabs and blocks. DO NOT modify or use this tool for any application other than which it was designed.

Tools used improperly or by untrained personnel can be dangerous; exposing themselves and/or bystanders to possible serious injury or death.

Note: Daniel Mfg. Inc. reserves the right to make technical changes for product improvement. This manual may contain illustrations for demonstration purposes, which slightly deviate from the actual product design.

1.4 Disposal of Equipment at End of Useful Life

The Monkey Fist lifting device has been designed for the specific purpose of lifting concrete slabs and blocks. When this tool is no longer capable of doing its designed purpose, it should be dismantled and scrapped. Do not use any materials or components from this tool for any other purpose.

2. Safety

2.1 General

Safety of the user and bystanders is one of the main concerns in designing and developing this lifting device. Designers and manufacturers build in as many safety features as possible; however, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to using the tools.

Most work related accidents are caused by failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing potentially hazardous situations before an accident occurs. As you use this tool, you must be alert to potential hazards.

Improper use or maintenance of this tool could result in a dangerous situation that could cause injury or death.

WARNING



Do not use this tool until you read and understand the information contained in this manual.



Safety precautions and warnings are provided in this manual. If these warnings are not followed, bodily injury or death could occur to you or to other bystanders.

Daniel Mfg., Inc. cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this manual are, therefore, not all-inclusive. If a method of use not specifically recommended in the manual is used, you must satisfy yourself that it is safe for you and for others. You should also ensure that the tool will not be damaged or be made unsafe by the methods that you choose.

The information, specifications, and illustrations in this manual are based on the information that was available at the time this material was written and can change at any time.

2.2 Safety Alert Symbols



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

This manual contains DANGERS, SAFETY INSTRUCTIONS, CAUTIONS, IMPORTANT NOTICES, and NOTES which must be followed to prevent the possibility of improper service, damage to the equipment, personal injury, or death. The following key words call the readers' attention to potential hazards.

Hazards are identified by the "Safety Alert Symbol" and followed by a signal word such as "DANGER", "WARNING", or "CAUTION".

DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations.

WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

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

NOTICE

Indicates that equipment or property damage can result if instructions are not followed.

SAFETY INSTRUCTIONS

Safety instructions (or equivalent) signs indicate specific safety-related instructions or procedures.

Note: Contains additional information important to a procedure.

2.3 Safety Icons Nomenclature

This manual has numerous safety icons. These safety icons provide important operating instructions which alert you to potential personal injury hazards.

2.3.1 Personal Protection/ Important Information



Eye protection



Hand protection



Head protection



Hearing protection



Inspect equipment



OEM parts only



Protective shoes



Read the manual



Replace damaged labels



Use proper tools



Visually inspect



Weight limit

2.3.2 Prohibited Actions



Do not alter or modify



Do not leave out tools



Do not ride on load



Do not weld



Do not work under load



Lifting obstacles



No alcohol



No children



No drugs



Overloaded rigging

2.3.3 Hazard Avoidance



Crush hazard



Crush hazard (foot)



Crushing hazard (body)



Defective or broken part



Electrocution Hazard



Improper lifting hazard



Maintain safe distance



Pinch point hazard



Safety alert symbol



Tripping injury

2.4 General Operating Safety

WARNING



The overhead lifting device, the tool, and all mating components must have sufficient weight rating for the load being lifted. Exceeding weight specifications can cause equipment failure, resulting in serious injury or death.



Improper lifting procedures can create risk for the user and the bystanders. **DO NOT** use the lifting device before making sure no one will be endangered.



Impaired Operator Hazard

Do not attempt to use this tool under the influence of drugs or alcohol. Review the safety instructions with all users annually.

Personal Protection Equipment

When working around or using this tool, wear appropriate personal protective equipment. This list includes but is not limited to:



- A hard hat
- Protective shoes with slip resistant soles
- Protective goggles, glasses, or face shield
- Heavy gloves and protective clothing



Stay Clear

Keep all bystanders, especially children, clear of the working zone. Under no circumstances should young children be allowed in the work zone when using this tool.

SAFETY INSTRUCTIONS



Visual Inspection

Visually inspect the tool for loose bolts or shackle pins and/or worn or damaged parts. Stop using the tool if damage is found and make necessary repairs or replace the tool.



Only adequately trained and instructed personnel should be authorized to use this tool.

3. Specifications

3.1 Technical Data

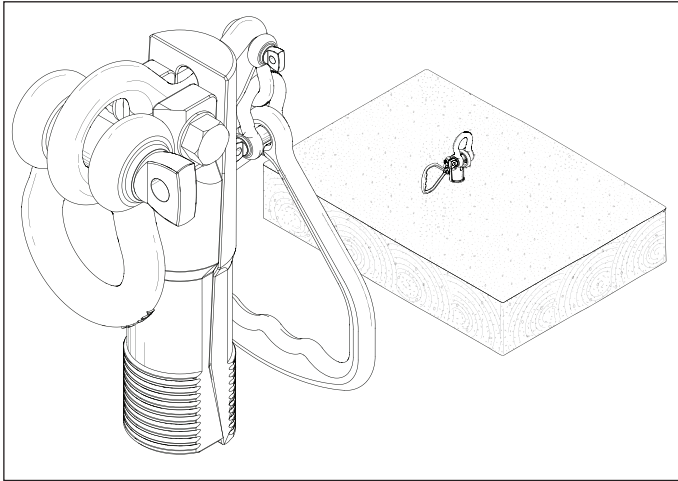
Description	Specification
Weight	4 kg. (9 lbs.)
Working Load Limit	2500 kg. (5500 lbs.)
Diameter (not expanded)	50.8 mm (2")
Expanded Diameter	54 mm (2-1/8")
Overall Length	203 mm (8")
Lifting Capacity	1 = 2500 kg. (5500 lbs.) 2 = 5000 kg. (11,000 lbs.) 3 = 7500 kg. (16,500 lbs.)
Lift Angle	No more than 10°

3.2 Certification Testing Data

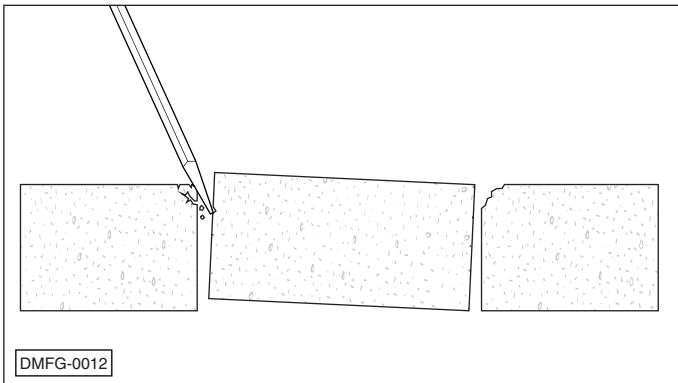
The Certification Testing Data can be supplied upon request.

4. Usage

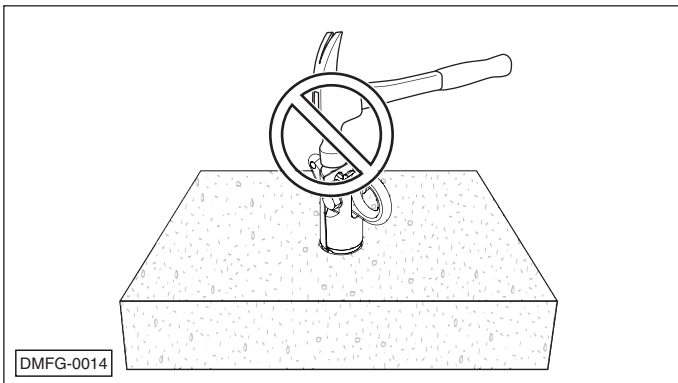
One Monkey Fist (tool) can be used to lift a free standing block of concrete weighing up to 2500 kg. (5500 lbs.). It is designed to lift a slab of concrete straight into the air.



Using this tool will eliminate spalling which can occur when slabs are pried from a hole, as shown.



Do not force the tool into the hole, as it will not allow the tool to expand and grip the concrete.



4.1 Safety

⚠ WARNING

Not understanding and following the safety instructions can and will result in serious injury and possibly even death.



Read and Understand Manual

Never use the tool without reading and completely understanding this manual and the OEM instructions from other related OEM manuals. There is a risk of dropping the load if incorrect lifting methods are used.



Inspect and clean the grip rings of the monkey fist, if necessary, prior to each use. If the rings are filled with concrete debris, they will not grip the slab which could result in an unexpected release of the load during lifting.



Do not exceed the working load limit of 2500 kg. (5500 lbs.). Compare the weight of the load being raised against the capacity of the tool and lifting equipment. Always make sure the lifting equipment has adequate lifting capacity. Failure to comply with the rated load can cause personal injury and/or equipment damage.



Inspect all rigging before use. Do not overload the tool or any of its mating parts. Make sure the tool and all mating parts are capable of safely lifting the desired load.



Watch for obstacles that could come in contact with the load during lifting. Contacting an obstacle with the load causes it to become unstable or overload the lifting device.



Before lifting the load, make sure the area is clear of overhead obstacles and electrical power lines. Electrocutation can occur with contact of overhead electrical power lines.



Do not stand under or near a suspended load being lifted, positioned, or lowered. Define a safe work zone. Do not allow bystanders within the work zone.



The overhead lifting equipment must have a lifting capacity greater than the load being lifted. Use only OSHA or other certified lifting components.



Avoid shock loading, swinging, or dropping the load.



Keep clear. DO NOT lift a load before making sure no one will be endangered.



Do not use this tool if it is damaged. If the tool is damaged, stop using it and repair or replace the tool.

WARNING



Under no circumstances should young children be allowed to work in or around the work area. When moving a load, make sure all bystanders, especially small children, stay clear.



Potential pinch point. Use caution when attaching lifting device to load.



Do not stand or sit on top of a load being lifted. DO not stand near or under a load being lifted.

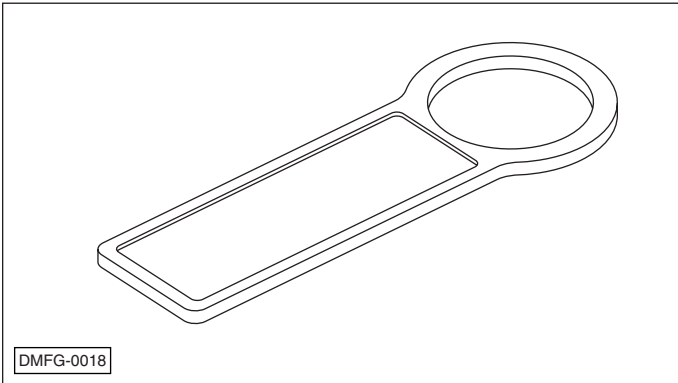
SAFETY INSTRUCTIONS

The following safety instructions are provided to help prevent injury or limit equipment damage.



Certification Tag

Do not use this tool if the certification tag is missing or is unreadable.



Follow all local, State, and Federal regulations for handling loads and using lifting devices/rigging.



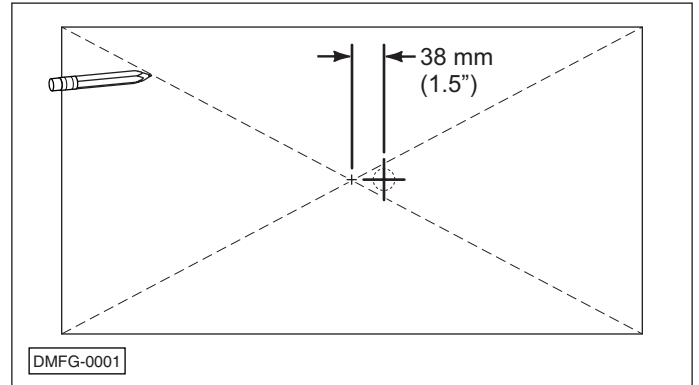
Inspect the shackles before each use. Do not use the tool if the shackle is damaged or deformed in any way.



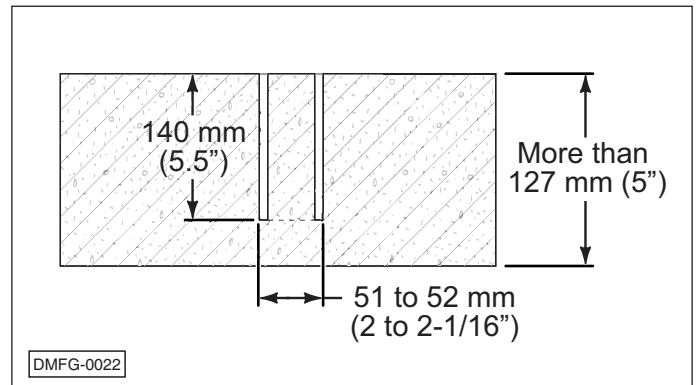
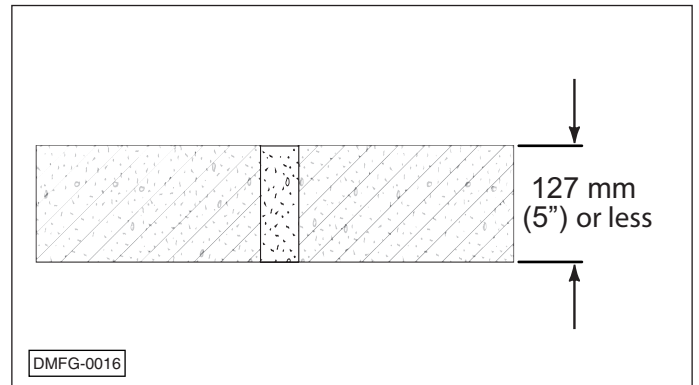
Do not modify the tool in any way by welding, heating with a torch, drilling, or grinding.

4.2 Single Tool With Free Standing Load

1. Mark a diagonal line from corner-to-corner on the slab being lifted.
2. Measure and mark a 38 mm (1.5") offset from the center point for the center of the core drill.



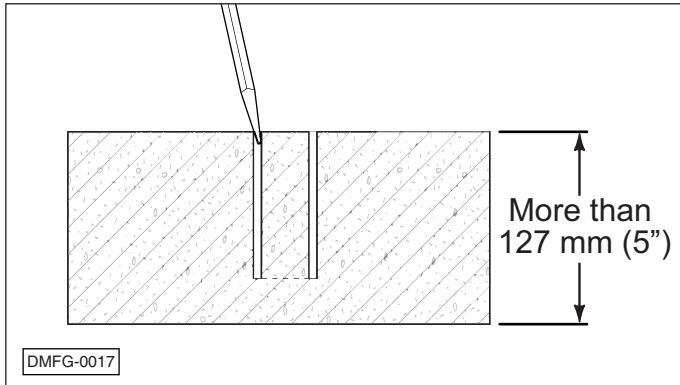
3. Drill a 51 mm (2") core hole into the block being lifted 140 mm (5.5") deep. If the concrete is less than 140 mm (5.5") thick, drill the core hole completely through the slab.



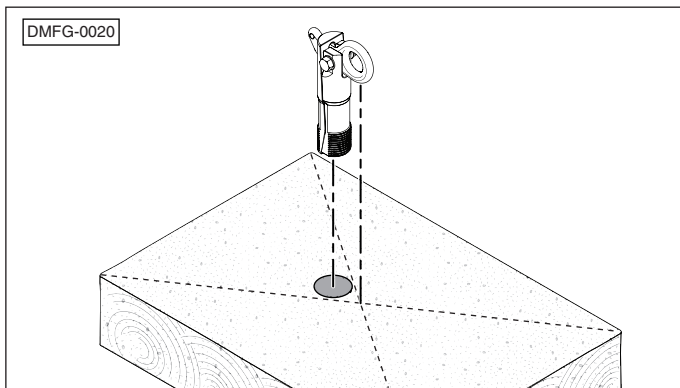
NOTICE

To prevent tool damage, always place the core hole at the center-of-gravity for the load.

4. Remove the core from the hole.



5. Insert the tool into the cored hole.

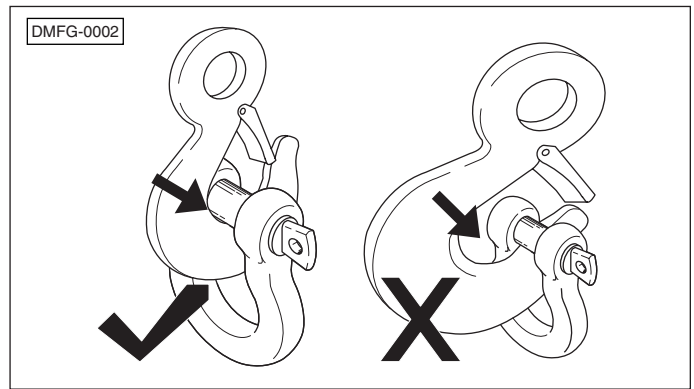
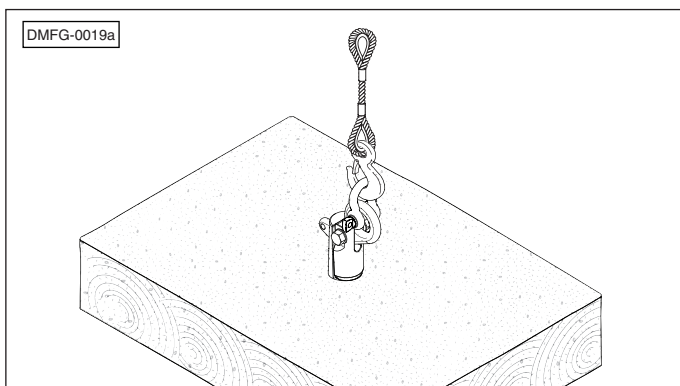


Note: If the cored hole is too large, the tool will not grip the load; allowing the load to disengage (slip off) from the tool during the lifting process. The tool will only expand to a maximum diameter of 54 mm (2-1/8").

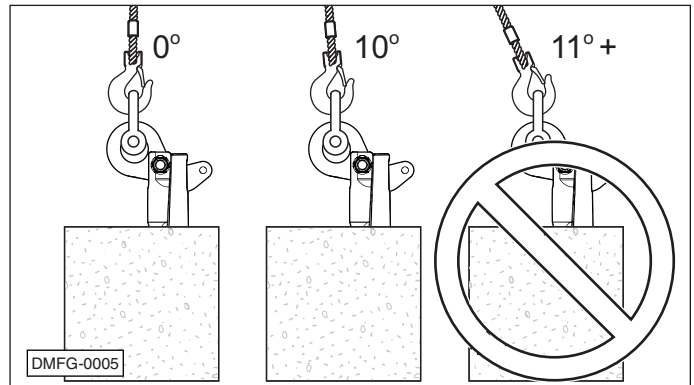
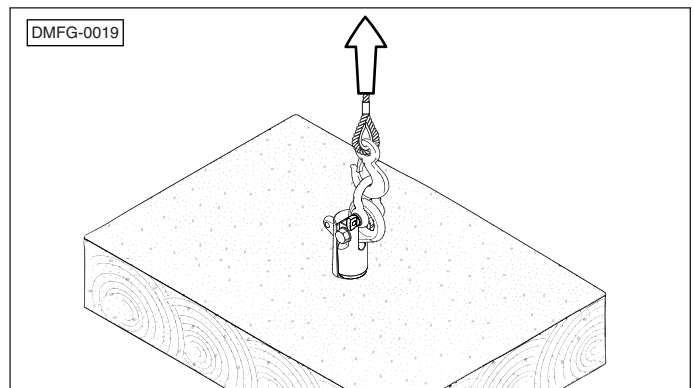
! DANGER

Crush Hazard
Do not stand near or under the load being lifted. The weight of a slab of concrete will cause severe crushing injuries or death if the tool unexpectedly releases from the slab.

6. Attach the lifting equipment to the shackle on the tool. Do not use any other shackle than the one supplied with the tool. Make sure the lifting hook fits the shackle on the tool, as shown.



7. Slowly raise the lifting device until the tool begins to grip the load. Make sure the load is balanced and will raise straight up. Do not lift a load when the lifting cable is more than a 10° angle.

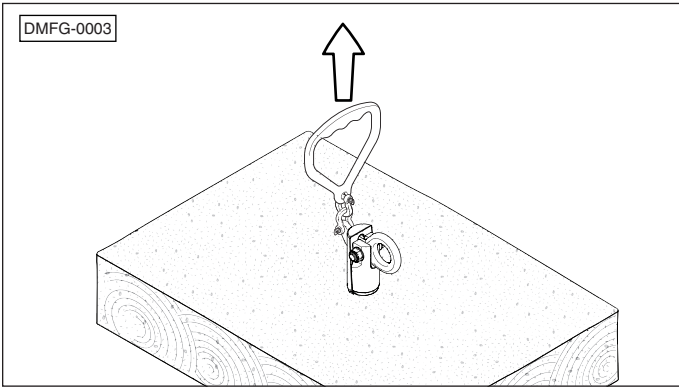


! CAUTION


Clear Work Area
If using a guide rope when moving the load, clear the area of any trip hazards to prevent possible injury.

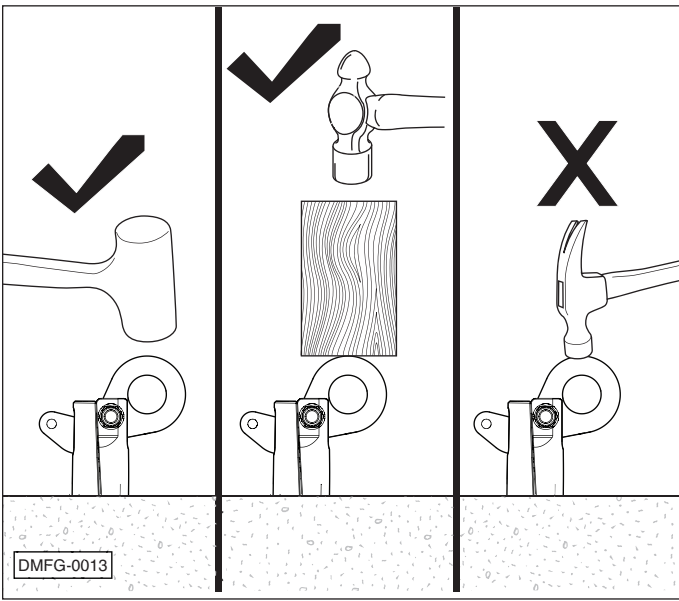
8. Move the load, keeping a safe distance at all times. If the load must be stabilized, attach a guide rope to it prior to lifting.

- To release the tool from the load, pull the release lever handle. If the handle will not release the tool, tap the top of the lever with a dead blow mallet or a piece of wood.



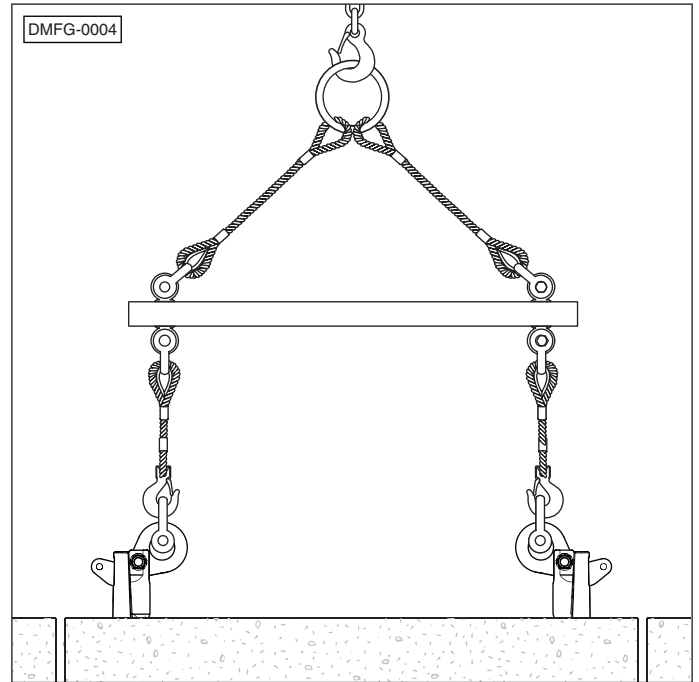
NOTICE

 Do not strike the top of the tool to release the tool. Do not strike the lever with a hammer or any metal object.

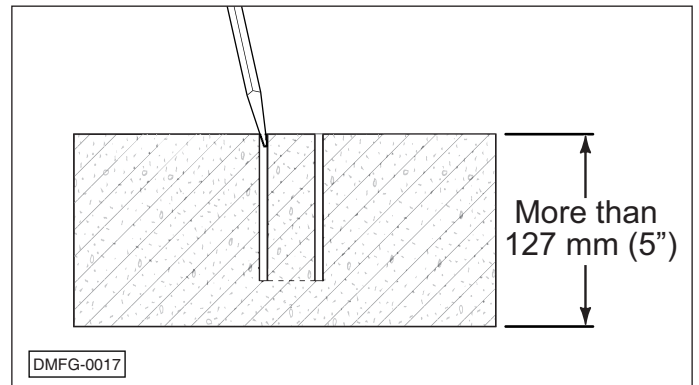


4.3 Multiple Tools With Captured Load

Whenever removing a large captured load, use multiple tools with a spreader bar. Using multiple tools allow the load to be lifted straight up and helps prevent possible spalling of the edge of the concrete.

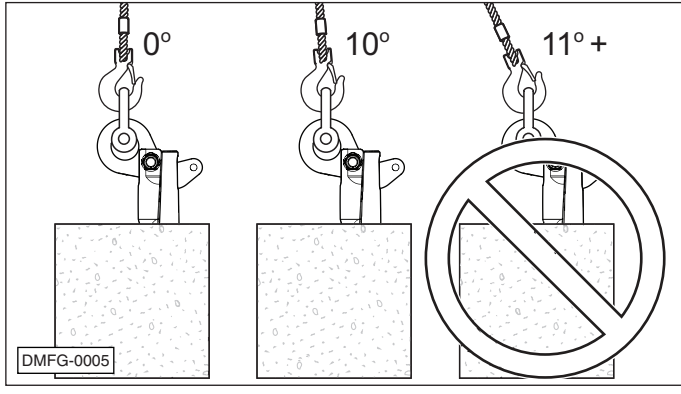


- Drill two or three 51 mm (2") core holes into the block being lifted 140 mm (5.5") deep. Locate and drill the core holes to allow the load to be balanced and lifted straight up. Remove the cores.



NOTICE

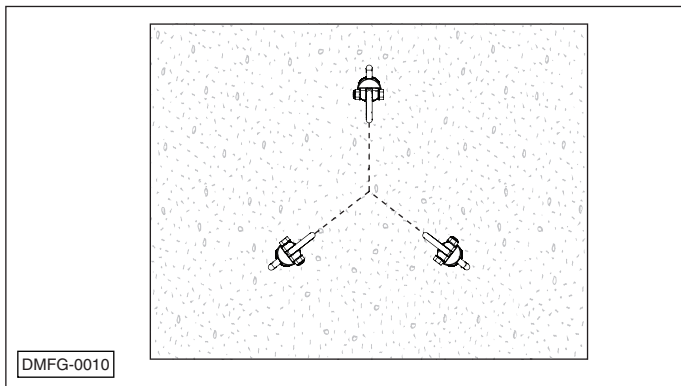
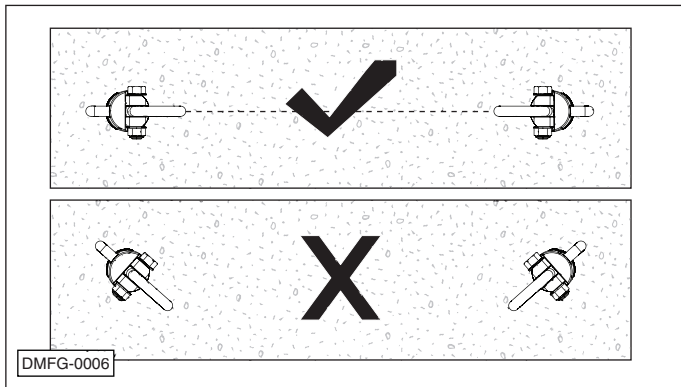
Do not allow sideways pull on the shackle of more than 10°. This tool is designed to be lifted straight up. Sideways pull from the lifting device can cause irreparable tool damage. If the lift angle of the cable will exceed 10°, use a spreader bar.



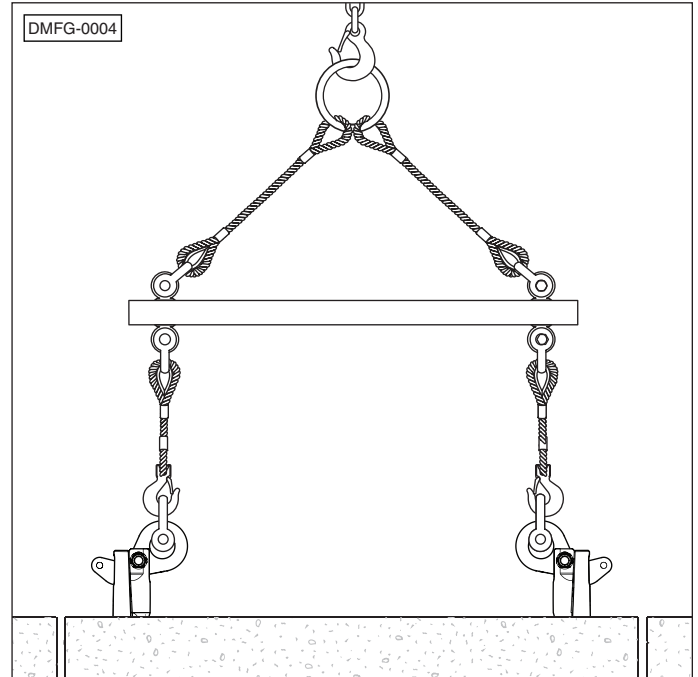
2. Insert the tools into the cored holes.

Note: If the cored hole is too large, the tool will not grip the concrete block and, therefore, not be able to safely lift it.

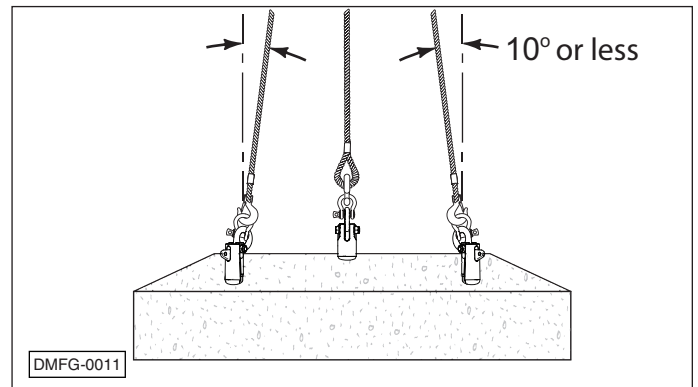
3. Align the levers of the tools to be parallel before lifting the load



4. If necessary, attach a spreader bar to the lifting equipment. Then attach the spreader bar lifting hooks to the shackles on the tools. Do not use any other shackles than the ones supplied with the tool.



5. Slowly raise the lifting equipment until the tool begins to grip the load. Make sure the load is balanced, will raise straight up, and will not wedge the slab in the hole. Do not lift a load when the lifting cable is more than a 10° angle.



CAUTION



Clear Work Area
If using a guide rope when moving the load, clear the area of any trip hazards to prevent possible injury.

6. Slowly raise and remove the load. Move away from the load, keeping a safe distance at all times. If the load must be stabilized, attach a guide rope to it prior to lifting.

5. Maintenance

5.1 Safety

WARNING

The following safety instructions can and will result in serious injury and possibly even death if they are not understood and followed.



Damaged Parts Hazard

Do not use the tool if any parts are damaged. If the tool has a defect, immediately stop using it and remedy the problem before continuing.



Good Working Condition

Keep all parts in good condition and properly tightened. Fix damaged parts immediately. Replace worn or broken parts. Remedy any faults or damage immediately. Avoid using the tool until the damage has been corrected.



Replacement Parts

If replacement parts are necessary, genuine factory OEM replacement parts must be used to restore the tool to its original specifications. Daniel Mfg. will not accept responsibility for damages or injuries as a result of the use of unapproved parts.



No Unauthorized Modifications

Do not modify the tool or its safety devices. Do not weld on the tool. Unauthorized modifications may impair the function of the tool, causing it to be unsafe.

If the tool has been altered in any way from the original design, Daniel Mfg. will not accept any liability for injury or warranty.



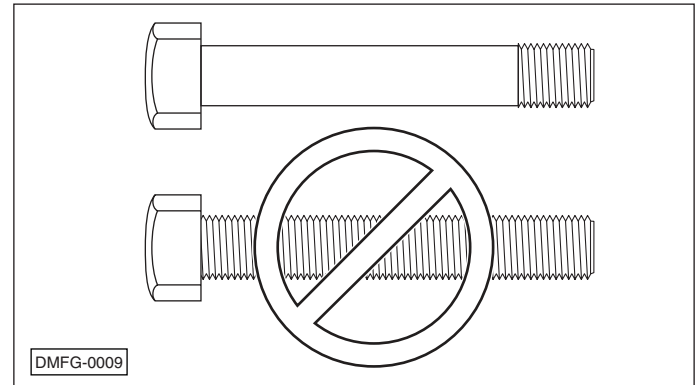
Use only OEM shackles for replacement parts. Using another brand or size of shackle could allow an oversized load to be lifted, resulting in failure of the tool.



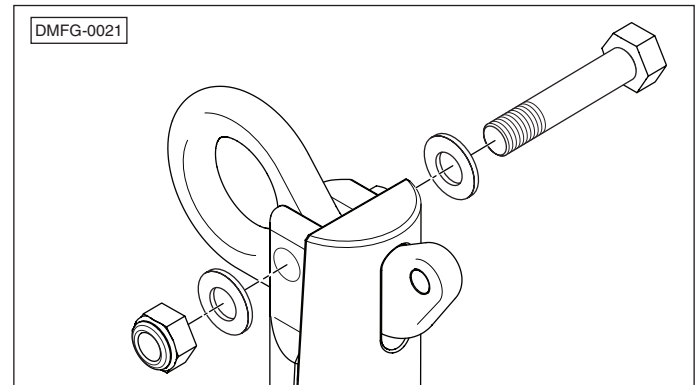
The condition of the tool must be checked regularly. Inspect the lever bolt and shackle before each use for damage, such as being bent, twisted, or deformed.

5.2 Pivot Bolt Replacement

If sheared or bent, replace bolt with only OEM parts.

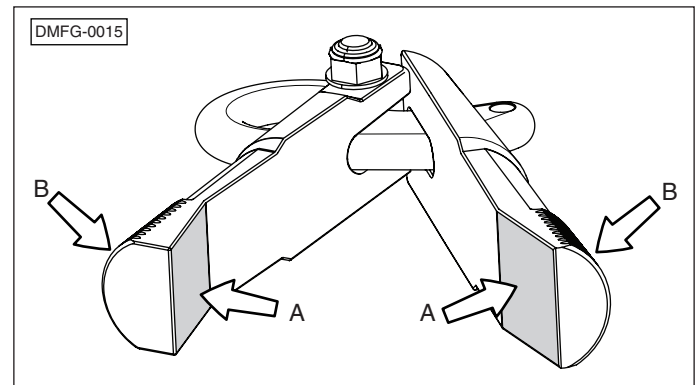


1. The replacement bolt is a 1/2-13, Grade 8, special long-shank design. Do not use a standard bolt.
2. Install a washer on each side of the tool, as shown.
3. Install the Nyloc locknut and tighten.



5.3 Cleaning

Prior to each use, clean the sliding surfaces (A) of the tool. Make sure the surfaces are smooth and free of any nicks or damage that would prevent them from sliding past each other. Also, clean grip rings (B) to remove any dirt or debris.



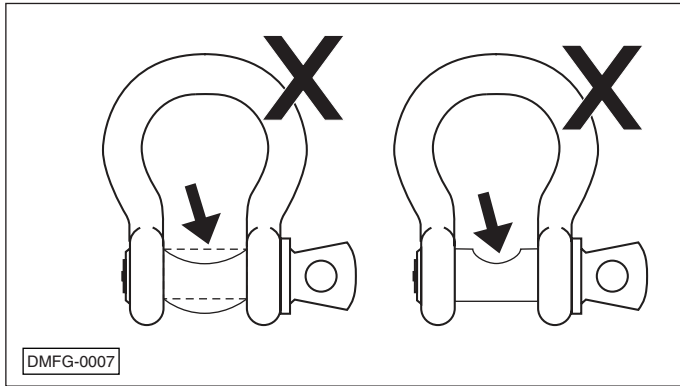
5.4 Tool Replacement

Inspect the grip rings for wear before each use. Replace the tool when the grip rings will no longer grip the load.

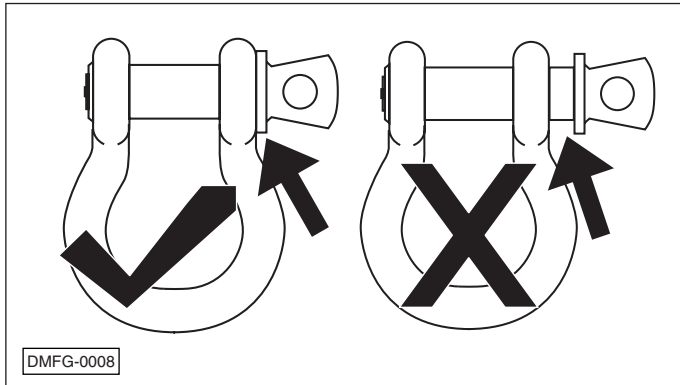
Inspect prior to each use for nicks, burrs, dents, cracks, bends, or worn parts. If damage is found, discontinue use until the damage is corrected.

5.5 Inspection

1. Inspect the tool before each use. Immediately replace any damaged parts.
2. Check for damaged or bent components.



3. Clean the tools using a non-solvent based cleaner.
4. Store the tool in a clean, dry location.
5. Make sure the shackle screw pins are tight.

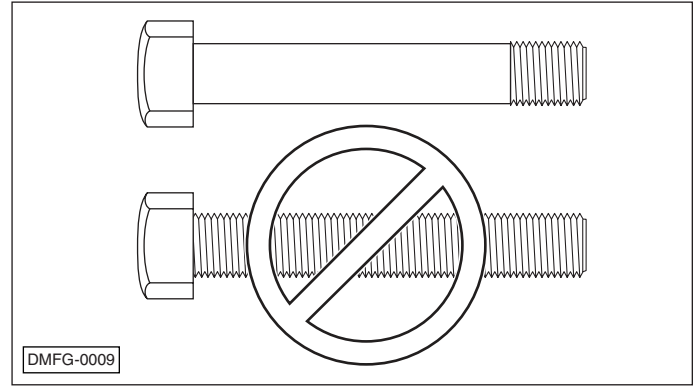


5.6 Replacement Parts

This tool has been manufactured and certified for a maximum working load limit of 2500 kg. (5500 lbs.). Due to the certification process, the only replaceable parts are the bolt, washers, and locknut.

NOTICE

Do not use a standard bolt for replacement. The bolt is specially designed to provide the maximum working load limit.



6. Warranty

6.1 Limited Warranty

Daniel Mfg. Inc. warrants the Monkey Fist lifting device (tool) at the time of delivery to the original purchaser, to be free from defects in material and workmanship when properly set up and operated in accordance with the recommendations set forth by Daniel Mfg. Inc.

Daniel Mfg. Inc.'s liability for any defect with respect to the tool shall be limited to repairing the tool at a Daniel Mfg. Inc. designated location or at an authorized dealer location, or replacing it as Daniel Mfg. Inc. shall elect. The above shall be in accordance with the Daniel Mfg. Inc. warranty adjustment policies. Daniel Mfg. Inc.'s obligation shall terminate one (1) year after the delivery of the tool to the original purchaser. This warranty shall not apply to any machine or attachment which shall have been repaired or altered outside the Daniel Mfg. Inc. factory or authorized Daniel Mfg. Inc. dealership or in any way so as in Daniel Mfg. Inc.'s judgment, to affect its stability or reliability, nor which has been subject to misuse, negligence, or accident beyond the recommended rated capacity.

6.2 Warranty Claim

To submit a warranty claim, a return authorization from Daniel Mfg. Inc. must be obtained. The failed part/tool may then be returned in an unaltered condition. This warranty does not include freight or delivery charges incurred when returning the part/tool for servicing. Dealer mileage, service calls, and pickup/delivery charges are the customers' responsibility.

6.3 Exclusions of Warranty

Except as otherwise expressly stated herein, Daniel Mfg. Inc. makes no representation or warranty of any kind, expressed or implied, and makes no warranty of merchantability in respect to its attachment is fit for any particular purpose. Daniel Mfg. Inc. shall not be liable for incidental or consequential damages for any breach or warranty, including but not limited to inconvenience, rental or replacement equipment, loss of profits, or other commercial loss. Upon purchase, the buyer assumes all liability for all personal injury and property resulting from the handling, possession, or use of the goods by the buyer.

No agent, employee, or representative of Daniel Mfg. Inc. has any authority to bind Daniel Mfg. Inc. to any affirmation, representation, or warranty concerning its attachments except as specifically set forth herein.

7. Warranty Information Card

7.1 Warranty Information Card

Daniel Mfg. Inc. will not warranty the Monkey Fist lifting device unless this "Warranty Information Card" is completely filled out and sent to Daniel Mfg. Inc.

To activate your Daniel Mfg. Inc. Monkey Fist lifting device warranty, please make a copy of this page, fill out the information in the form below, and send it to Daniel Mfg. Inc. at:

Daniel Mfg., Inc.
273 County Road 1850 East
Carlock, IL 61725
USA

SERIAL #: _____

OWNER'S NAME: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE NO. (____) ____ - _____

Purchased From: _____ Date: _____

Address: _____

City: _____ State: _____ Zip: _____

Your Signature: _____ Date: _____

Make a copy or cut here to remove page.

Notes

monkey Fist



U.S. Patent # 8,651,540

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