

CHRIS CUTTER

Safety Manual

Rev B 01

IMPORTANT: Read and understand the entire contents of this manual prior to setting up, operating or maintaining the Chris Cutter. Special attention should be paid to the safety section as well as

the safety highlights located throughout this manual. Contact the factory if you do not understand anything in these instructions.

NOTICE

This manual and the examples contained herein are provided “as is” and are subject to change without notice. Cee-Jay Tool Company Inc. makes no warranty of any kind with regard to this manual, including, but not limited to the implied warranties of merchantability and fitness for a particular purpose. Cee-Jay Tool Company shall not be liable for any errors or for incidental or consequential damages in connection with the furnishing, performance, or use of this manual or the examples contained herein.

All rights reserved. Reproduction, adaptation, or translation of this manual is prohibited without prior written permission of Cee-Jay Tool Company.

SAFETY GUIDELINES: Cee-Jay Tool Company recognizes that the safe operation of the Chris Cutter is the most important responsibility shared by management and employees. This manual is intended as a guide for those who operate, service and supervise the operation of the Chris Cutter. It is not intended to be a safety code. Our purpose is to alert operators, service personnel and supervisors to the importance of establishing safe operating and maintenance procedures.

Read and understand these guidelines before attempting to install, operate, or service the Chris Cutter. Failure to observe these guidelines may cause serious injury or death.

CAUTION
Never place your hand or any other part of your body into the splitting area of the Chris Cutter unless the main power supply has been disconnected and “Locked and Tagged.”

The Chris cutter uses very high pressures to execute a split. This splitting process will severely injure persons who do not recognize this danger. The power unit should be turned off and the power locked and tagged according to OSHA or MSHA regulations prior to servicing or maintaining the Chris Cutter.

Do not let the desire for increased production overcome the essential need for safety. Failure to follow this simple rule can result in serious bodily injury or death.

CAUTION
Never expose any part of the body to a high pressure leak in the hydraulic system.

The hydraulic system is under high pressure and high pressure fluids can be injected into the body if proper precautions are not taken. If an oil leak is suspected turn the power unit off and de-energize the hydraulic system prior to looking for the leak. NEVER use any part of the body to feel for an oil leak while the machine is running or while the hydraulic system is energized.

CAUTION
Always wear proper protective clothing when operating the Chris Cutter.

Eye Protection: Splitting stone can produce splinters of stone that can harm the unprotected eye. All personnel operating or working near the Chris Cutter should wear safety glasses with side shields. Some stone splits with a force that warrants additional protective measures such as full face shields.

Hand Protection: The splitting process can produce a number of razor sharp edges that can seriously injure the unprotected hand. All operators should wear a good pair of protective gloves.

Foot Protection: Whenever split stone is handled, the risk of a serious foot injury exists. Safety- toe shoes should be worn by all operators to protect against falling stone.

Ear Protection: Hearing protection may be necessary depending on the power unit as well as the work environment. Contact your local health official for specifics on required levels of hearing testing and appropriate protection.

CAUTION
The Chris Cutter as well as the area around it should be kept free of debris at all times.

The Chris Cutter can produce a large amount of debris in the course of a day, both on the machine and around the machine. Some means should be devised to remove the stone chips from the area.

The rollers and splitting area should be kept clear of stone fragments at all times. We recommend using a broom or long handled brush to remove stone fragments from the tooth area. Do not remove these fragments with your hands without first turning off the power unit and de-energizing the hydraulic system. Operating the Chris Cutter with stone fragments piled up under the teeth can result in machine damage or personal injury.

The area around the Chris Cutter should be kept clear to reduce the risk of tripping.

CAUTION
Never remove or deface any placard or decal that instructs the operator or others of safety precautions.

The Chris Cutter was shipped from the factory with certain warning placards in place. These placards provide information critical to the safe and efficient operation of the splitter and should not be removed, covered or defaced. If replacement signs are needed, contact the factory.

CAUTION

Inspect all hydraulic hoses and connections daily for leaks or damage.

The hydraulic system is designed for up to 2500 psi of operating pressure. When a leak occurs with fluids under this kind of pressure, as serious hazard exists. All worn or damaged fittings and hoses should be replaced immediately.

CAUTION
Only qualified technicians should be allowed to make adjustments to or perform service on the hydraulic system.

The Chris Cutter has been shipped from the factory with the pressure relief valves set for optimal operation. Altering these adjustments can severely damage the splitter and or cause serious bodily injury. Altering the pressure settings on the pressure relief valves will void the manufacturers warranty.

CAUTION

Improper lifting or moving of this equipment can result in personal injury and equipment damage.

The Chris Cutter is top heavy and prone to tip over if caution is not exercised whenever the splitter is moved. The top jaw should be lowered as far as it will go whenever the splitter is moved.

If the Chris Cutter is going to be lifted be sure to use equipment of adequate capacity to lift the unit. Lift only from the designated lifting points shown in Fig. 1 and Fig. 2.

Arrangements can be made to have a factory representative come to your site and assist in setting the machine up and training personnel in the proper use of the splitter.

If at any time you encounter problems or have questions please contact the factory directly at 1-800-350-9313.

LOCATION: Before your Chris Cutter arrives at your facility, how and where it will be positioned should be determined. A level reinforced concrete pad or foundation capable of supporting about 30000 pounds should be designed and constructed. If the hydraulic power unit is not mounted on the Chris Cutter, then the pad should be large enough to accommodate the hydraulic power unit as well. It may be desirable to have concrete pads under each of the legs on the conveyors also. Provisions should be made to bolt the Chris Cutter to the foundation or concrete pad to prevent it from moving or tipping over.

CAUTION
Position the Chris Cutter on a hard level surface as it is top heavy and prone to tipping over.

LEVELING THE CHRIS CUTTER: Once the Chris Cutter has been moved into position it will be necessary to level the machine. If the tow package is to remain bolted to the splitter, it will be necessary to block the wheels to prevent the splitter from moving. It is preferable to remove the tow package and bolt the splitter down on a hard level foundation.

The operator side of the splitter should be raised $\frac{1}{4}$ to $\frac{1}{2}$ inch above level. This will make it easier for any entrapped air to work its way out of the hydraulic system.

If the Chris Cutter is being fastened to a foundation, use four $\frac{3}{4}$ inch diameter bolts.

Because of the large weights involved and the vibrations caused by the splitting action some settling may occur. It may be necessary to check the level of the machine from time to time and make any required adjustments.

CONNECTING THE HYDRAULIC POWER UNIT: Locate the hydraulic power pack near the splitter in an area that will protect the connecting hoses from falling rocks and excessive foot traffic. If this is not possible it may be necessary to construct a protective cover for the hoses.

There are three hydraulic hoses that need to be connected. Two of the hoses are attached to the splitter and need to be screwed into the appropriate fitting on the hydraulic tank. The third hose is already attached to the tank and needs to be screwed into the appropriate fitting on the splitter. The hoses should lay flat. Do not twist or kink the hydraulic hoses.

Be sure to clean the ends of the hydraulic hoses prior to removing the protective caps. Dirt and other debris may have accumulated on the hoses during shipment and could cause serious damage if allowed to enter the hydraulic system.

CAUTION
Do not over tighten the hydraulic fittings.
Teflon tape or other thread sealing
compounds are not necessary on these
hydraulic fittings.

CONNECTING THE CONVEYORS: Using the supplied hardware, bolt the conveyor with the hydraulic lift table to the in bound table on the Chris Cutter. The lift table should be located closest to the inbound table. Attach the second conveyor to the back of the first conveyor. The conveyors should be level or have a slight slope towards the splitter and all of the conveyor legs should be properly supported. Each leg has approximately 5 inches of adjustment with the screw out leg support.

CAUTION

An excessive slope on the conveyor could cause stone to roll in an uncontrolled manner causing equipment damage or serious personal injury.

ELECTRIC MOTOR INSTALLATIONS: A qualified electrician should be consulted if the hydraulic power pack is powered by an electric motor. All federal and local electrical codes should be strictly adhered to. On three phase power applications, be sure that the hydraulic pump is turning the correct direction.

CAUTION

High voltage may be present in the control cabinet on electrical units. Never attempt to service the electrical components without first disconnecting the power source.

CAUTION:

The working parts of the hydraulic power pack may get hot when in use. DO NOT TOUCH.

CAUTION:

Always wear safety glasses and protective clothing to protect against splintering stone.

CAUTION:

Always wear safety glasses and protective clothing to protect against splintering stone.

