

800.321.3396

nascoop.com

CSX 2010 CABLE STRIPPER

OPERATORS INSTRUCTION AND SERVICE HANDBOOK

CUSTOMER: _____

MACHINE SERIAL NO. _____

MOTOR _____ PHASE

_____ KW

_____ VOLTS

DATE: _____

GENSCO EQUIPMENT (1990) Inc.
53 Carlaw Avenue
Toronto, Canada
M4M 2R6
Phone: 416-465-7521
Fax: 416-465-4489

GENSCO AMERICA INC.
5307 Dividend Drive
Decatur, Georgia 30035
Phone: 770-808-8711
Fax: 770-808-8739

Across USA Call 1-800-268-6797
E Mail: info@genscoequip.com
Internet: www.genscoequip.com

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GENSCO

WARRANTY

ALL ORDERS FOR PRODUCT ARE SUBJECT TO THE FOLLOWING:

Gensco Equipment (1990) Inc. warrants each product to be free from defects in material and workmanship under normal use and service. Gensco Equipment's obligation under this warranty is limited to repairing or supplying, at our option, a part or parts to replace any defective part or parts which fail, within one (1) year from date of original sale. No product shall be returned without prior authorized approval, and if authorized, the transportation charges shall be prepaid to Gensco Equipment, Toronto, Canada, or Gensco America, Decatur, GA. Unauthorized returns will not be accepted.

The provisions of this warranty shall not apply to any part or parts which have been subject to misuse, negligence or accident, or which have been repaired or altered outside of Gensco Equipment's service department in any way, so, as in the judgment of Gensco Equipment to affect adversely its performance, stability or reliability.

Gensco Equipment neither assumes nor authorizes anyone to assume for it any other obligation or liability for any loss or damage, either direct, incidental or consequential, resulting from or arising out of, or in connection with, any of its defective part or parts.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND OF ANY OTHER OBLIGATION OR LIABILITY ON THE PART OF GENSCO EQUIPMENT OF ANY NATURE WHATSOEVER.

RETURN POLICY

A Returned Goods Authorization must be obtained from Gensco Equipment prior to the return of any product. All shipments to us must be sent freight prepaid. Upon inspection, should the Quality Control Department determine the product to be defective, credit will be issued accordingly.

For product returned in an "as new" condition, the restocking charges are as follows:

RETURNED FROM DATE OF ORIGINAL SHIPMENT	STOCK ITEMS	SPECIAL ORDER ITEMS
120 Days	20%	50%

GENSCO

DANGER

- 1** - DO NOT ATTEMPT TO OPERATE GENSCO STRIPPING MACHINE WITHOUT PROPER TRAINING FROM OPERATIONS MANAGER OR HIS DELEGATE.
- 2** - PERSONNEL PROTECTIVE EQUIPMENT MUST BE WORN AT ALL TIMES WHEN CHECKING OR OPERATING GENSCO STRIPPER.
- 3** - MAKE SURE WORK AREA IS CLEAN AND UNOBSTRUCTED.
- 4** - CHECK ELECTRICAL CORDS FOR CRACKING AND FRAYING MAKE SURE ALL CONTACTS ARE CLEAN AND GROUND CONNECTIONS ARE IN GOOD CONDITION.
- 5** - MAKE SURE ALL SAFETY DEVICES ARE OPERABLE AND EMERGENCY STOP BUTTONS/BARS ARE FUNCTIONING PROPERLY.
- 6** - BEFORE CONNECTING MAIN CURRENT MAKE SURE NO ONE IS WORKING ON THE MACHINE
- 7** - CHECK BLADES AND FEED ROLLERS FOR WEAR AND TEAR SHOULD BE CHANGED IF NECESSARY.
- 8** - REPORT ANY AND ALL DEFECTS TO YOUR SUPERVISOR, IF NECESSARY USE LOCK-OUT PROCEDURES.
- 9** - DON'T FORGET 5 DROPS OF OIL PRIOR TO PROCESSING MATERIAL



GENSCO STRIPPER: G1
MODEL: GSX 2010
SERIAL #: 10587

**WORK WITH SAFETY IN MIND AT ALL TIMES
NEVER CUT CORNERS - NEVER TAKE CHANCES**

Lock-out/Tag-out – Gensco

Lock Out Sequence for Gensco

1. Follow the procedure for notification of lock out.
2. If machine is energized or operating, shut it down by normal shut down process.
3. Lock out the disconnect switch on the wall marked Gensco Stripper. Place your lock in the appropriate disconnect receptacle and attach the red tag, Unplug the Gensco Stripper and tie back the female receptacle and chord roll up the end of the chord beside the Gensco stripper and make sure all on/off switches are in the off position.
4. Test machine to make sure it is not operable and is completely de-energized.
5. Machine is now locked out.



Restoring Equipment to Service

1. When servicing or maintenance is completed and the machine or equipment is ready to return to normal operating condition, the following steps shall be taken.
2. Check the work area to ensure that all employees have be safely positioned or removed from that area.
3. Verify that the controls are in Neutral or Off Position.
4. Remove the locked devices and Red Tag and re-energize the machine/equipment.
5. Notify affected employees/supervisors that the servicing or maintenance is completed and the machine/equipment is ready to use.
6. The delegate/supervisor is responsible to advise the originator of the Red Tag that the defect or defects have been corrected.
7. Supervisor/delegate will audit the Red Tag logbook on his safety inspections.

SAFETY PRECAUTIONS

IMPORTANT

These safety precautions have been prepared to assist the operator and maintenance personnel in practicing good shop safety procedures.

Operator and maintenance personnel must read and understand these precautions completely before operating, setting up, running, or performing maintenance on the machine.

These precautions are to be used as a guide to supplement safety precautions and warnings in the following:

- a. All other manuals pertaining to the machine.
- b. Local, plant, and shop safety rules and codes.
- c. Federal and national safety laws and regulations.

See the latest edition of the OCCUPATIONAL SAFETY AND HEALTH STANDARDS, available from the DEPARTMENT OF LABOR, WASHINGTON, D.C.

GENERAL SAFETY INSTRUCTIONS AND CONSIDERATIONS

PERSONAL SAFETY

Machine owners, operators, setup men, maintenance, and service personnel must be aware of the fact that constant day-to-day safety procedures are a vital part of their job. Accident prevention must be one of the principal objectives of the job regardless of what activity is involved.

Know and respect your machinery. Read and practice the prescribed safety and checking procedures. Make sure that everyone who works for, with, or near you fully understands and – more importantly – complies with the following safety precautions and procedures when operating this machine.

Sudden movements, loud noises, horseplay, etc., must be avoided. These distractions may result in unsafe conditions for those working near the machinery.

Observe and follow safety instructions such as "NO SMOKING", "High Voltage", "DANGER", etc., in your working area.

Accidents can occur that result in serious personal injury to yourself or others due to clothing and other articles becoming entangled in cutters, hand wheels, levers, or moving machine elements. The following suggestions, if followed, will help you to avoid such accidents: Neckties, scarfs, gloves, loose hanging clothing, and jewelry such as watches, rings, or necklaces must not be worn around moving machinery. Restrain long hair with a cap or net. Wear gloves only when handling rough, sharp, or hot parts.

Use safety protective equipment. Wear clean approved eye or face protection. Safety-toe shoes with slip-proof soles can help you avoid injury. Keep your protective equipment in good condition.

Never operate or service this equipment if affected by alcohol, drugs or other substances or conditions which decrease alertness or judgment.

WARNING

Read related safety precautions before operating this machine. Failure to follow safety instructions may result in serious personal injury.

WARNING

In order to clearly show details of this machine, some covers, shields, guards, barriers, devices, or doors have either been removed or shown in an "open" position. All such protective components must be installed in position before operating this machine. Failure to follow this instruction may result in serious personal injury.

WARNING

Failure to follow instructions on this page may result in serious personal injury.

WARNING

Failure to follow instructions on this page may result in serious personal injury.

WORK AREA SAFETY

Always keep your work area clean. Dirty work areas with such hazards as oil, debris, or water on the floor may cause someone to fall to the floor, into the machine, or onto other objects resulting in serious personal injury.

Make sure your work area is free of hazardous obstructions and be aware of protruding machine members.

Return tools and similar equipment to their proper storage place immediately after use. Keep work benches neat, orderly, and clean.

Report unsafe working conditions to your supervisor or safety department. Items such as: worn or broken flooring, ladders, and handrails, unstable or slippery platforms, or scaffolds must be reported and repaired before use. Do not use skids, work pieces, stock, machines, tote pans, and boxes as makeshift climbing aides.

TOOL SAFETY

Sharp edged cutting tools must be handled with gloves or a shop cloth. Inspect cutting tools before use and reject defective tools.

Remove hand tooling such as wrenches, measuring equipment, hammers, and other miscellaneous parts from the machine immediately after usage.

LIFTING AND CARRYING SAFETY

Contact supervision if you have any questions or are not sure about the proper procedures for lifting and carrying.

Before lifting or carrying an object, determine the weight and size by referring to such things as tags, shipping data, labels, marked information, or manuals.

Use power hoists or other mechanical lifting and carrying equipment for heavy, bulky, or hard to handle objects. Use hookup methods recommended by your safety department and know the signals for safely directing a crane operator.

Never place any part of your body under a suspended load or move a suspended load over any part of another person's body. Before lifting, be certain that you have a safe spot for depositing the load. Never work on a component while it is hanging from a crane or other lifting mechanism.

Always inspect slings, chains, hoists, and other lifting devices prior to use. Do not use lifting devices found to be defective or questionable.

Never exceed the safety rated capacity of cranes, hoists, slings, eyebolts, and other lifting equipment. Follow standards and instructions applicable to any lifting equipment you use. (For example, ANSI Standard B18.15, available from The American National Standards Institute, Inc., 1430 Broadway, New York, New York 10018, contains information concerning safe lifting loads for different size eyebolts, for various angles of lift and application instructions for safe use of eyebolts.)

WARNING

Failure to follow instructions on this page may result in serious personal injury.

Keep all parts of your body off the machine table, table edge, out of the path of moving units, trip dogs, trip plungers, and out of the working areas during operation. Never lean on a machine or reach over or through a machine - you can become entangled in tooling and other moving elements or you may accidentally activate start buttons, feed controls, rapid traverse controls, power work holding control, or similar devices.

During operation, be attentive to the machining process. Excessive vibration, unusual sounds, etc., can indicate problems requiring your immediate attention. Watch for conditions such as packed chips or grit which can cause breakage of tooling or machine elements.

Shut off power to the machine when leaving the operating area or at the end of your work period. Never leave the machine running unattended, unless machine is part of an unattended manufacturing system and in a production cycle. Turn the master disconnect device to the OFF position before cleaning the machine at the end of the working day or when guards or covers are removed that expose hazardous areas.

MAINTENANCE SAFETY

Do not attempt to perform maintenance on this machine until you read and understand all the safety instructions.

Assign only qualified service or maintenance personnel to perform maintenance and repair work on this machine. Consult the service manual before attempting any service or repair work and when in doubt contact the Factory. Use only original replacement parts: others may impair the safety of the machine. Before performing maintenance or service work, Warning or Danger signs must be placed conspicuously about the machine. Before detaching counterweights or driving mechanisms, vertical sliding members must be blocked properly. See the Service Manual for proper dismantling procedures.

Before removing or opening any electrical enclosure, cover, plate, or door, be sure that the Main Disconnect Switch is in the OFF position. If any tool is required to remove a guard, cover, bracket, or any basic part of this machine, place the Main Disconnect Switch in the OFF position, lock it in the OFF position. If possible, post a sign at the disconnect switch indicating that maintenance is being performed.

Whenever maintenance is to be performed in an area away from the disconnect and the disconnect is not locked, tag all start button stations with a "DO NOT START" tag. Adequate precautions, such as locks on circuit breakers, warning notices, or other equally effective means must be taken to prevent electrical equipment from being electrically activated when maintenance work is being performed.

Before attempting to adjust, repair, or perform maintenance on electrical circuits connected with yellow wires, first find the source of power, turn it off, and lock it in the OFF position. Machine tool interlock control circuits connected with yellow wires are powered from a source away from the machine and carry voltage even when the machine's main disconnect device is turned to the OFF position.

When removing electrical equipment, place number or labeled tags on those wires not marked. If wiring is replaced, be sure it is of the same type, length, size, and has the same load carrying capacity.

Close and securely fasten all guards, shields, covers, plates, or doors before power is reconnected.

DANGER: HIGH VOLTAGE

Before working on any electrical circuits, turn the machine Main Disconnect Device "OFF" and lock it.

UNDER NO CIRCUMSTANCES IS ANY MAINTENANCE, CLEANING, REPAIRS, ALTERATIONS, ASSEMBLY OR DISASSEMBLY OF THIS MACHINE OR ANY OF ITS PARTS ARE TO BE ATTEMPTED WHILE THE MACHINE IS IN OPERATION OR IF POWER IS CONNECTED.

FAILURE TO FOLLOW THIS INSTRUCTION MAY RESULT IN DEATH OR SERIOUS PERSONAL SHOCK INJURY.

WARNING

Failure to follow instructions on this page may result in serious personal injury.

An electrical technician must analyze the electrical system to determine the possible use of power retaining devices such as capacitors. Such power retaining devices must be disconnected, discharged, or made safe before maintenance is performed.

Working space around electrical equipment must be clear of obstructions. Provide adequate illumination to allow for proper operation and maintenance.

MATERIALS USED WITH THIS PRODUCT

Various materials may be used with this product. Before using/mixing/diluting materials with this product, contact the manufacturer/authorized supplier of the material to determine that the material is suitable for the intended application and request a Material Safety Data Sheet (MSDS) from the material manufacturer.

WARNING

Failure to follow instructions on this page may result in serious personal injury.

Before inserting an eyebolt, be certain that both the eyebolt and the hole have the same size and type threads. To attain safe working loads, at least 90% of the threaded portion of a standard forged eyebolt must be engaged.

INSTALLATION AND RELOCATION SAFETY

Before lifting the machine, consult the machine manual for proper methods and procedures.

An electrician must read and understand the electrical schematics prior to connecting the machine to the power source. After connecting the machine, test all aspects of the electrical system for proper functioning. Always make sure the machine is grounded properly. Place all selector switches in their OFF or neutral (disengaged) position. The doors of the main electrical cabinet must be closed and the main disconnect switch must be in the OFF position after the power source connection is complete.

Always lock the main disconnect device in the OFF position if the machine is left unattended, unless machine is part of an unmanned manufacturing system and in a production cycle.

When the machine is installed, be sure that the motors rotate in the proper indicated direction.

SETUP AND OPERATION SAFETY

Read and understand all the safety instructions before setting up, operating, or servicing this machine. Assign only qualified personnel, instructed in safety and all machine functions, to operate or service this machine.

Operators and maintenance personnel must carefully read, understand, and fully comply with all machine mounted warning and instruction plates. Do not paint over, alter, or deface these plates or remove them from the machine. Replace all plates which become illegible.

Safety guards, shields, barriers, covers, and protective devices must be connected or in place before operating the machine.

All safety features, disengagements, and interlocks must be in place and functioning correctly prior to operation of this equipment. Never bypass or wire around any safety device.

Never brake or slow down moving machinery with your hand or with some makeshift device. Never use machine power to remove a nut from any shaft. The spindle and slides must be stopped when measuring work pieces, changing tools, or removing chips and grit. Remove chips and grit with a chip rake or brush, not with your hands.

ON RECEIPT OF MACHINE

Position machine on level ground in the required work area, allowing ample space for working in front of and to the rear of the stripper.

If positioned against a wall, have the chain-guard or high side facing the wall, allowing the reel bar to be removable.

Remove all packing materials, and check that the brake bar moves freely in both directions forward and backwards, springing back to a central position.

Normally single phase machines are supplied with a plug fitted, but if not, as with 3-phase machines the earth lead will be marked with a yellow and green tape. This should be checked for continuity before wiring in.

Use a competent electrician to wire in the machine ensuring that the rotation of the knives is correct, as indicated on the starter controls.

NOTE! On first running the machine, the chain should be oiled. An oiling tube will be found the rear top side of the chain guard. Oil the chain each day for the first week.

OPERATING

WARNING

Do not clean drive rolls or touch chain whilst revolving.

Always insolate machine at mains before carrying out any service work, or changing of blades.

SWITCH CONTROL

The starter box houses three control buttons:

FORWARD: Giving forward drive for all cutting.

REVERSE: Which is only to be used to free any jammed materials.

STOP: For stopping the machine. This button has a lock off position, which is obtained by pressing in the button and turning it. To release simply turn until it springs out. If at any time the machine is heavily overloaded and thermal overload trips out, to reset, press the stop button fully in and release. A minute or so wait may be necessary for the over-load to cool down.

BRAKE BAR CONTROL

This is a simply frame constructed to extend from the front to the rear of the machine and offers an extra safety precaution for the operator.

If pushed or pulled from either side of the machine, the drive motor will automatically stop. It is advised that this bar be used for all stopping operations, such that the operator will automatically use it in the event of an emergency.

TABLE VICE

For guiding cable centrally between knives. The table vice should be adjusted to allow the cable to pass freely through it, but with the minimum side movement.

Small cables needing to be a tighter fit than larger cables. Turning the handwheel clockwise opens the jaws and anti-clockwise closing them.

RAISING & LOWERING THE TOP KNIFE

Positioned on the top of the machine is the handwheel that raises and lowers the top knife and drive roll assembly. Turning the handwheel clockwise raises the assembly and anti-clockwise lowers it.

The distance between the knives has to be set at a gap smaller than the cable being cut. If the cut is too deep, the top knife and drive roll assembly is sprung loaded to prevent any damage.

SIZING CABLES

It is recommended that large, heavy cables and PVC covered wire armoured cables be cut into short manageable lengths of say 1 to 1.5 Meters.

Smaller cables may be stripped in long lengths providing they are free of knots.

SELECTION OF CUTTING WHEELS

Generally small cables of 1mm² up to 6mm² are stripped on the single knife and vee wheels. The cable is passed under the table vice top plate into the vee wheels, which will automatically pull the cable through under the knife. The knife setting for the correct depth of cut is adjusted using the top handwheel.

Cables from 4mm² upwards may be stripped through the twin knives and drive rolls. The table vice has to be adjusted to suit the cable size in conjunction with the gap between the twin knives, to give correct depth of cut. Remember the top knife and roll assembly is sprung loaded, so a deep or hard cut will not cause damage.

Remember to use the brake bar to stop the machine.

CUTTING CABLE

Before using the machine for production, try out several samples of cable of about 1 Meter long, (use both single and twin knives) to get the feel of how the machine operates. Remember to use the brake bar for stopping. Initially set the knife gap and table vice width with the machine stopped.

Small PVC covered cables require only a light cut, whereas the larger PVC cables need a heavier cut to pull them through because of their weight.

Lead and rubber cables, being soft, have to be cut very deep and the spring loaded top knives allow for change in cable selection. PVC covered wire armoured cables should be cut lightly on the outer case, such that the armour is not cut through, which could damage the knives. With the outer PVC removed, the armour can be unwrapped and then the inner cores processed. VIR and paper covered cables generally strip similar to PVC covered cables, whereas pyro requires a good heavy cutting action to fully open the outer case.

Cable cores of triangular, semi-circular or quadrant section should be fed through the table vice such that the same faces of the cables pass by the knives for the whole length of the cable.

REEL BAR

This is used for cable on reels. The reel is fed onto the bar and the cable stripped off in one continuous process. Generally the single knife and vee-rolls are used for this operation, but on some larger multi-stranded single core cables and twin cut action may be preferred.

GENERAL SERVICE AND MAINTENANCE

OILING

Use a 20/50 engine oil and the oil can provided during the first week of operation. Oil the chain daily giving approximately 6 squirts of oil through the oiling tube at the rear on the top side of chain guard with the machine running. Then oil the chain once a week, using the same procedure. Oiling the chain also lubricates the idle gear which is not visible.

The top handwheel and table vice handwheel adjustment screws, should be oiled once a week, by squirting oil directly onto the treads.

GEARBOX

The gearbox oil should not need changing during the life of the machine, but in the case of any leakage, access to the gearbox is gained by removing the front cover of the machine. The level filler plug will be found at the rear of the gearbox on the center line and drain plug on the center line of the base cover plate.

For topping up or replacing, use EP90 gear oil.

CLEANING TABLE VICE

This may be removed from the machine for cleaning by removing the two 12mm retaining bolts in the base plate.

On replacing the table, ensure that its base and top plate is perfectly clean.

Ensure the table is central to the knives before tightening down, by closing the jaws onto the bottom blade, (do not tighten jaws onto the blade - just allow them to touch).

CLEANING OR REPLACING KNIVES & ROLLS

Remove table vice as above and remove knife and roll cover. Using C-spanner in top outer roll and undo 16mm cap head retaining screw. Rolls and knife can be withdrawn.

Remove bottom rolls and knife using the same procedure.

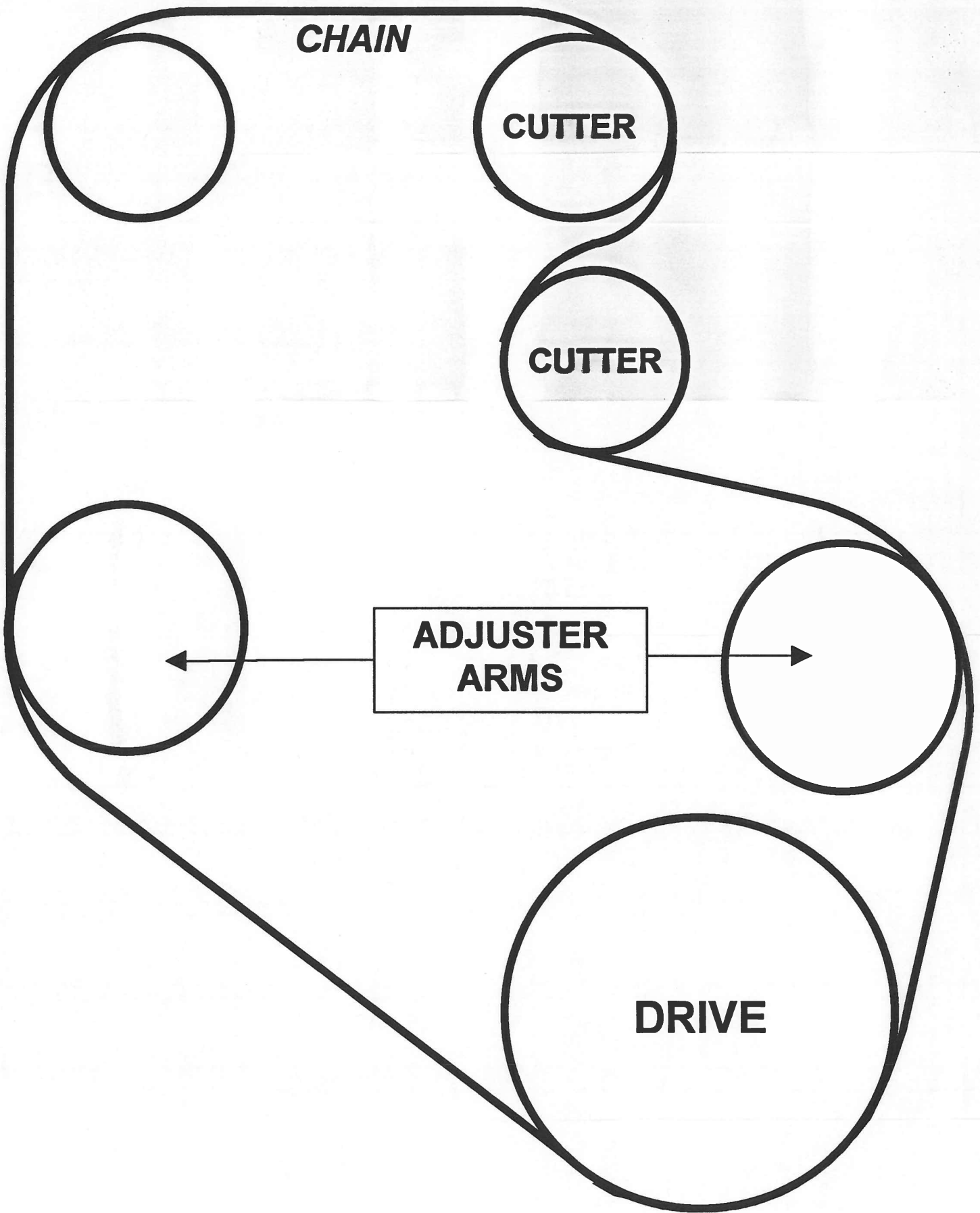
NOTE: when replacing rolls and knives, ensure that mating surfaces are perfectly clean. Also clean mating surfaces of table vice and cover when replacing

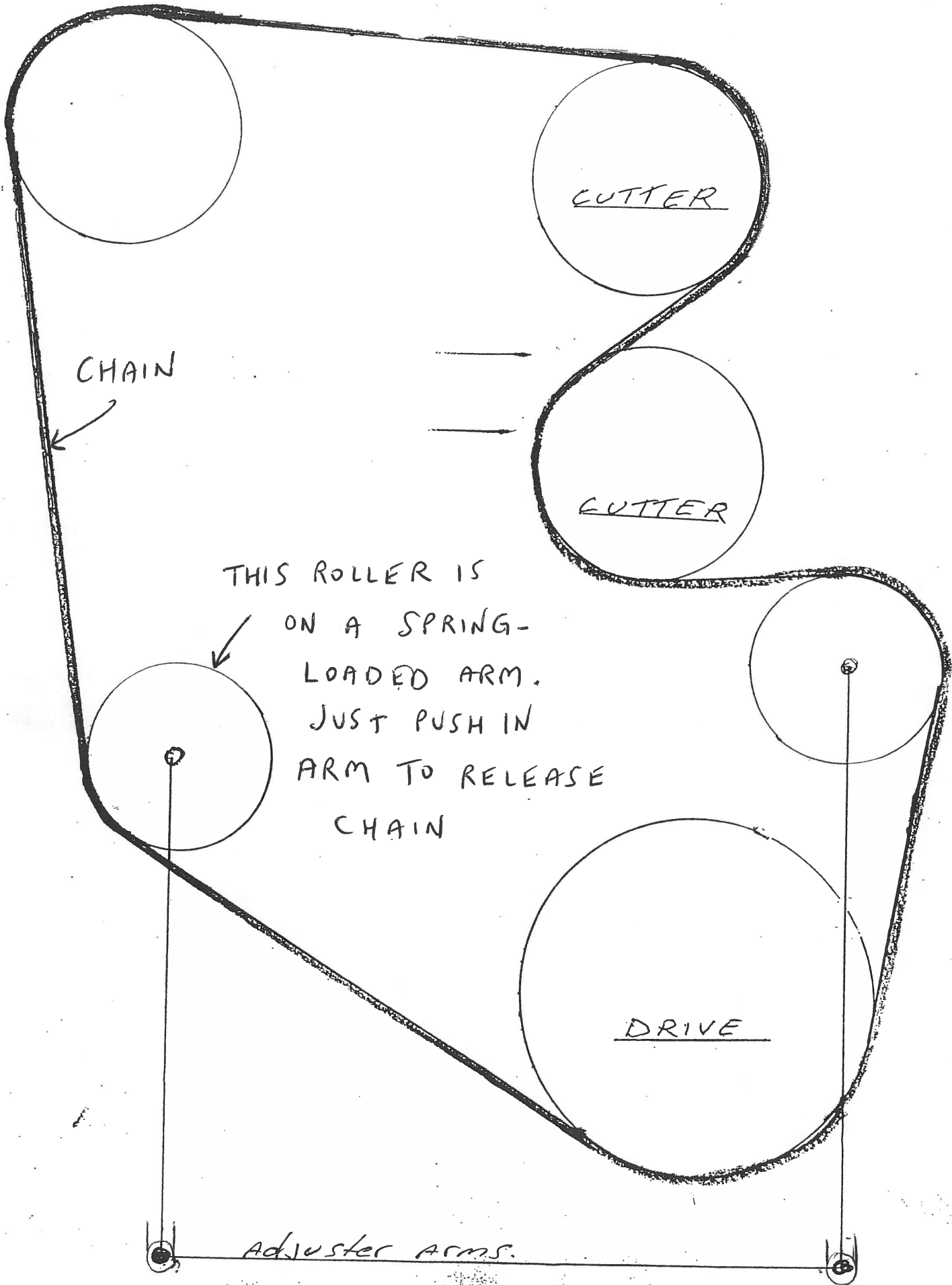
SIX MONTHS

Generally clean the machine down, remove the covers and clean inside. Check nuts and bolts for tightness.

TWELVE MONTHS

As six months, but also check all electrical connections for tightness.





CHAIN

CUTTER

CUTTER

THIS ROLLER IS
ON A SPRING-
LOADED ARM.
JUST PUSH IN
ARM TO RELEASE
CHAIN

DRIVE

Adjuster Arms.



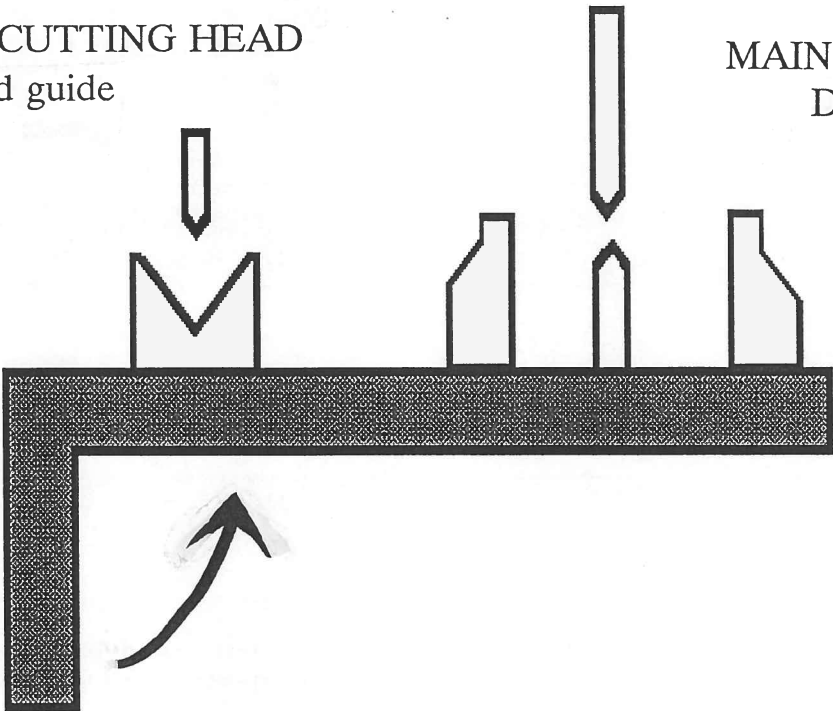
CS 201 STRIPPER

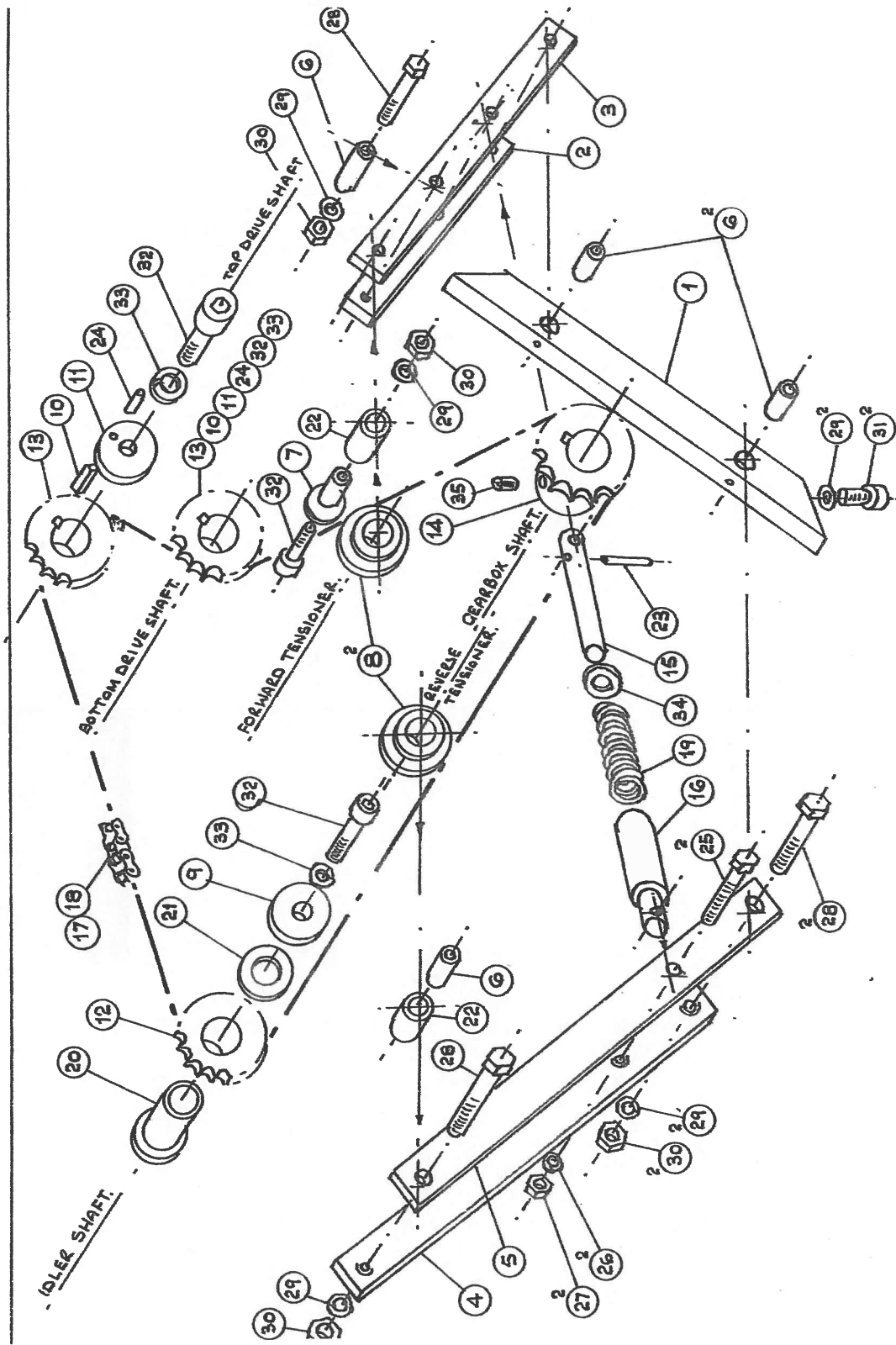
HINT

When feeding small wires into the secondary cutting head of machine wires can be fed directly into the blade using the guide or it is sometimes beneficial to feed the wire from underneath the steel table and into the guide. See drawing.

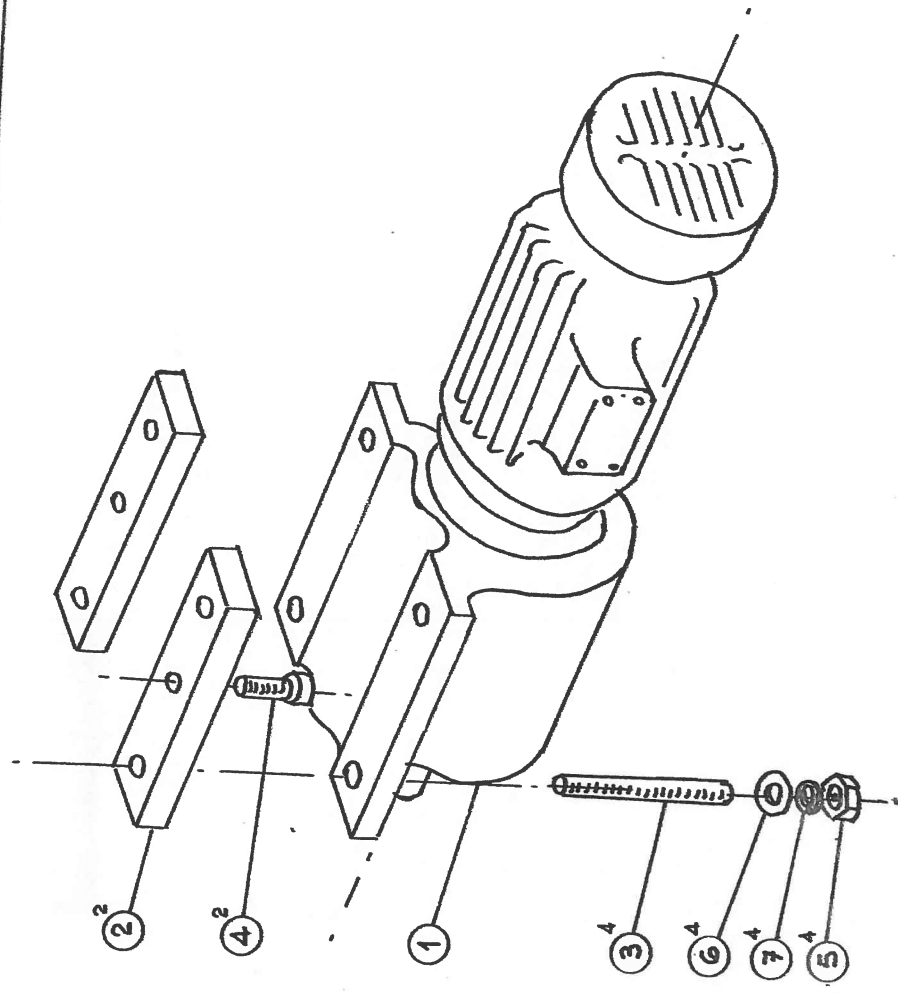
SECONDARY CUTTING HEAD
Single blade and guide

MAIN CUTTING HEAD
Dual Blades





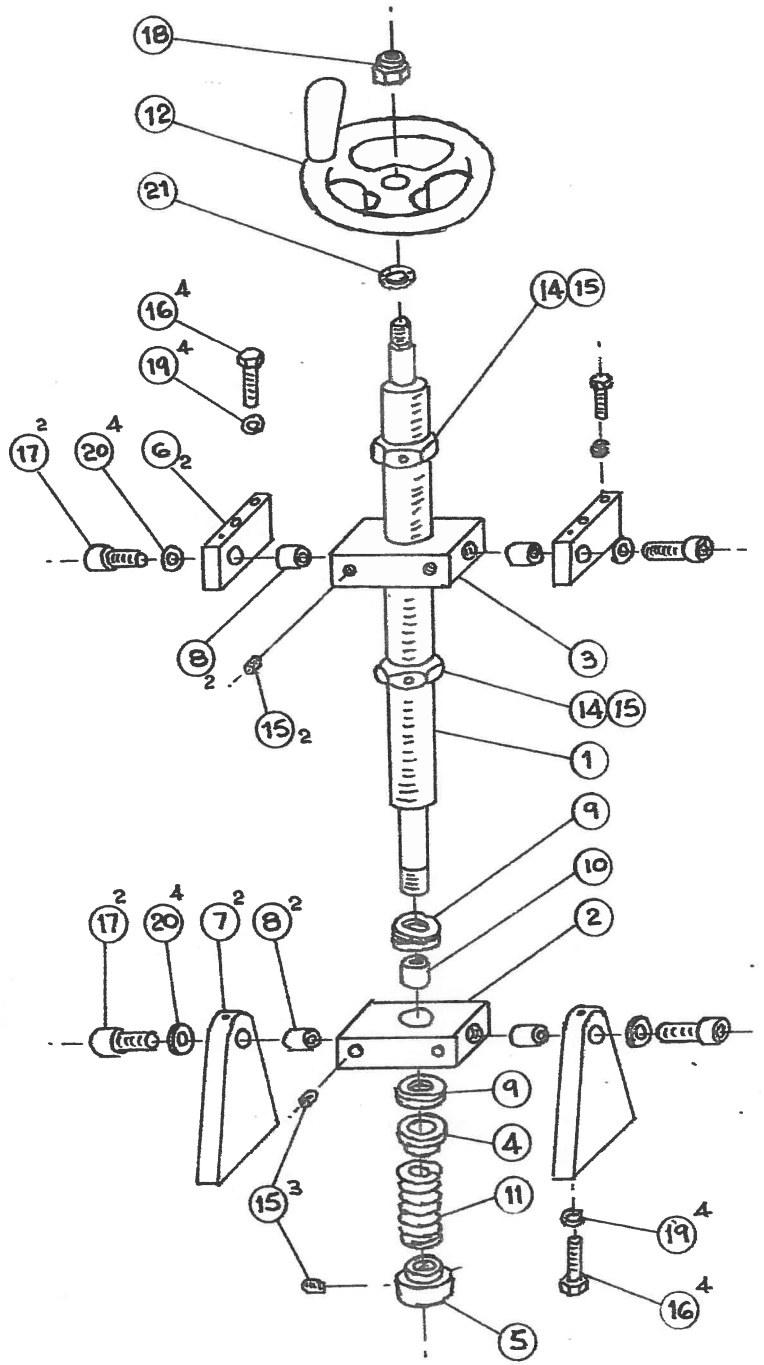
SX 2010 CABLE STRAPPER DRIVE AND TENSIONER ASSEMBLY



1/2 X 2010 CABLE STRIPPER

MOTOR-GEARBOX ASSEMBLY

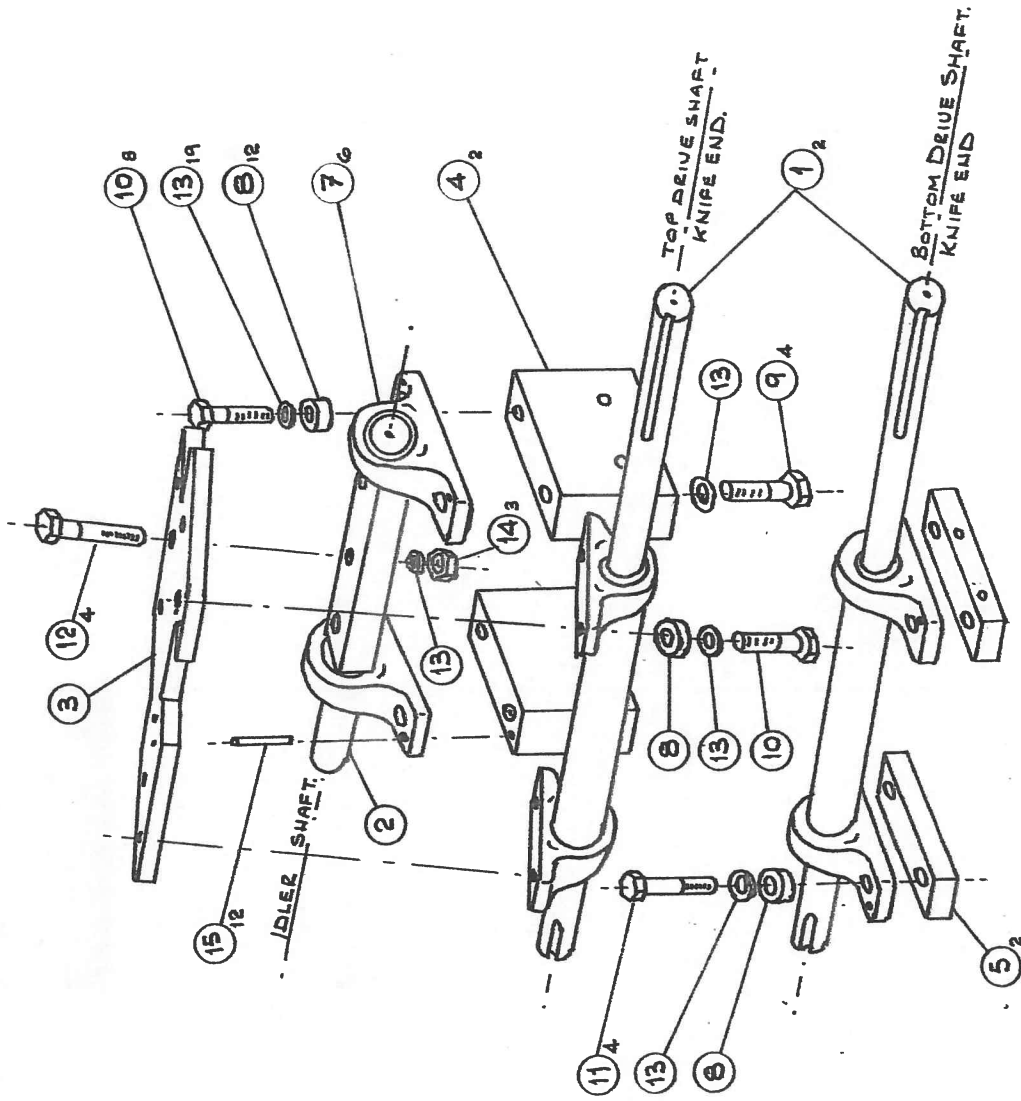
DEG Nº 2010-54



DEGN° 2010-55

HEIGHT ADJUSTMENT ASSEMBLY

CSX 2010 CABLE STRIPPER

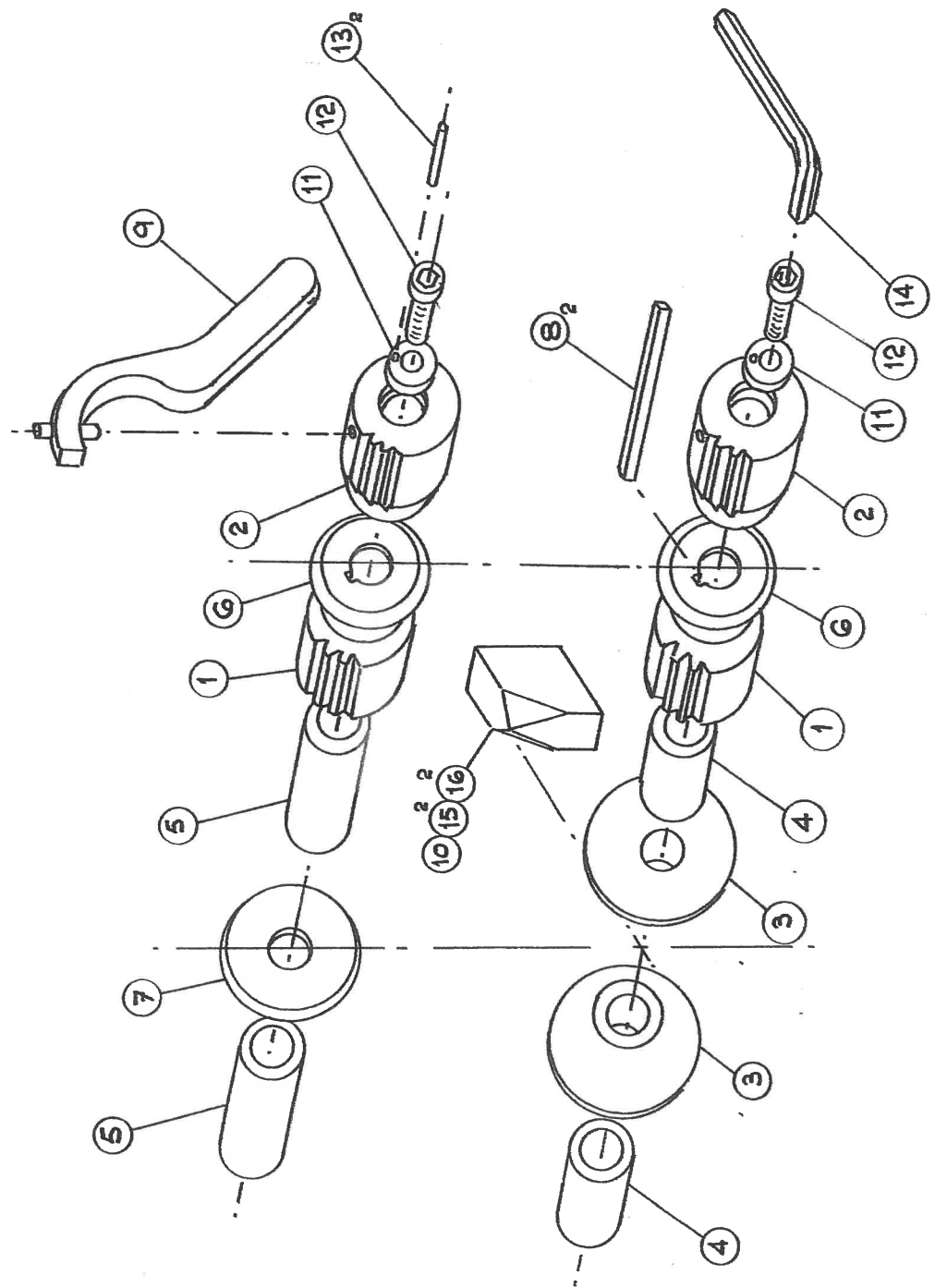


CSX 2010 CABLE STRIPPER

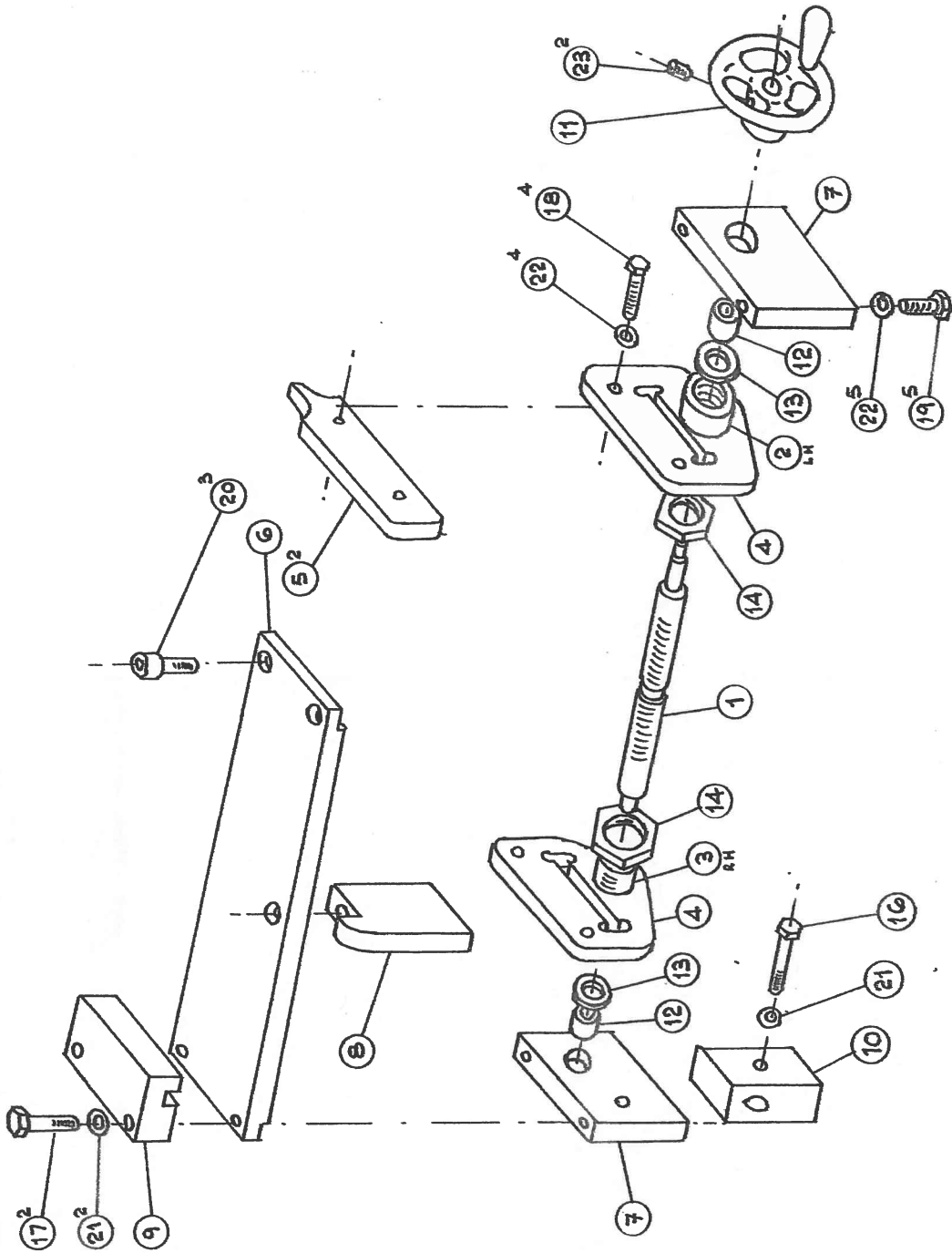
SHAFT ASSEMBLY.

DEC NO 2010-51

5X 2010 CABLE STRIPPER, DRIVE WHEEL AND KNIFE ASSEMBLY, DRG N° 2010-53

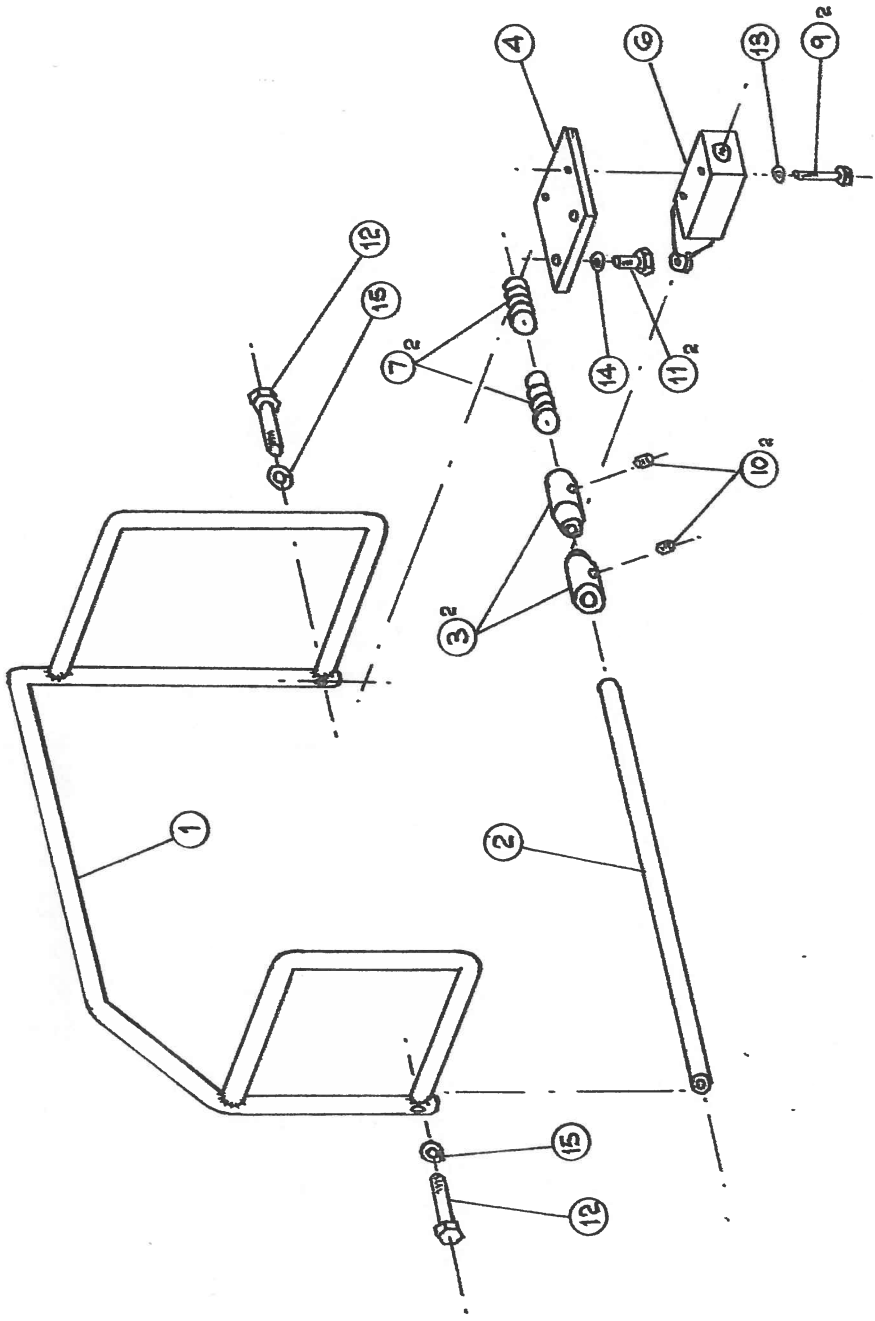


5X 2010 CABLE STRIPPER, DRIVE WHEEL AND KNIFE ASSEMBLY, DRG N° 2010-53

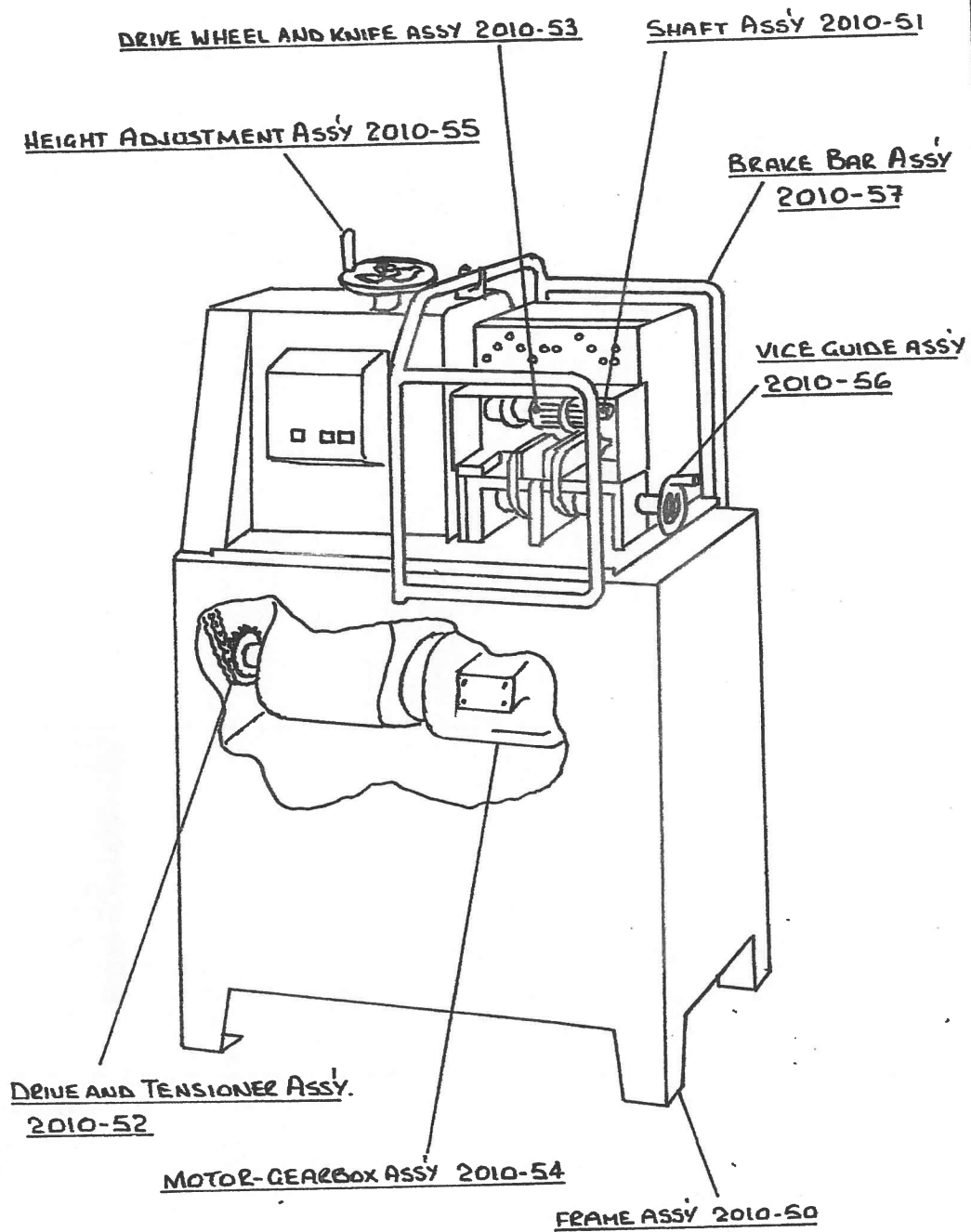


CSX 2010 CABLE STRIPPER VICE GUIDE ASSEMBLY

DRGN° 2010-56



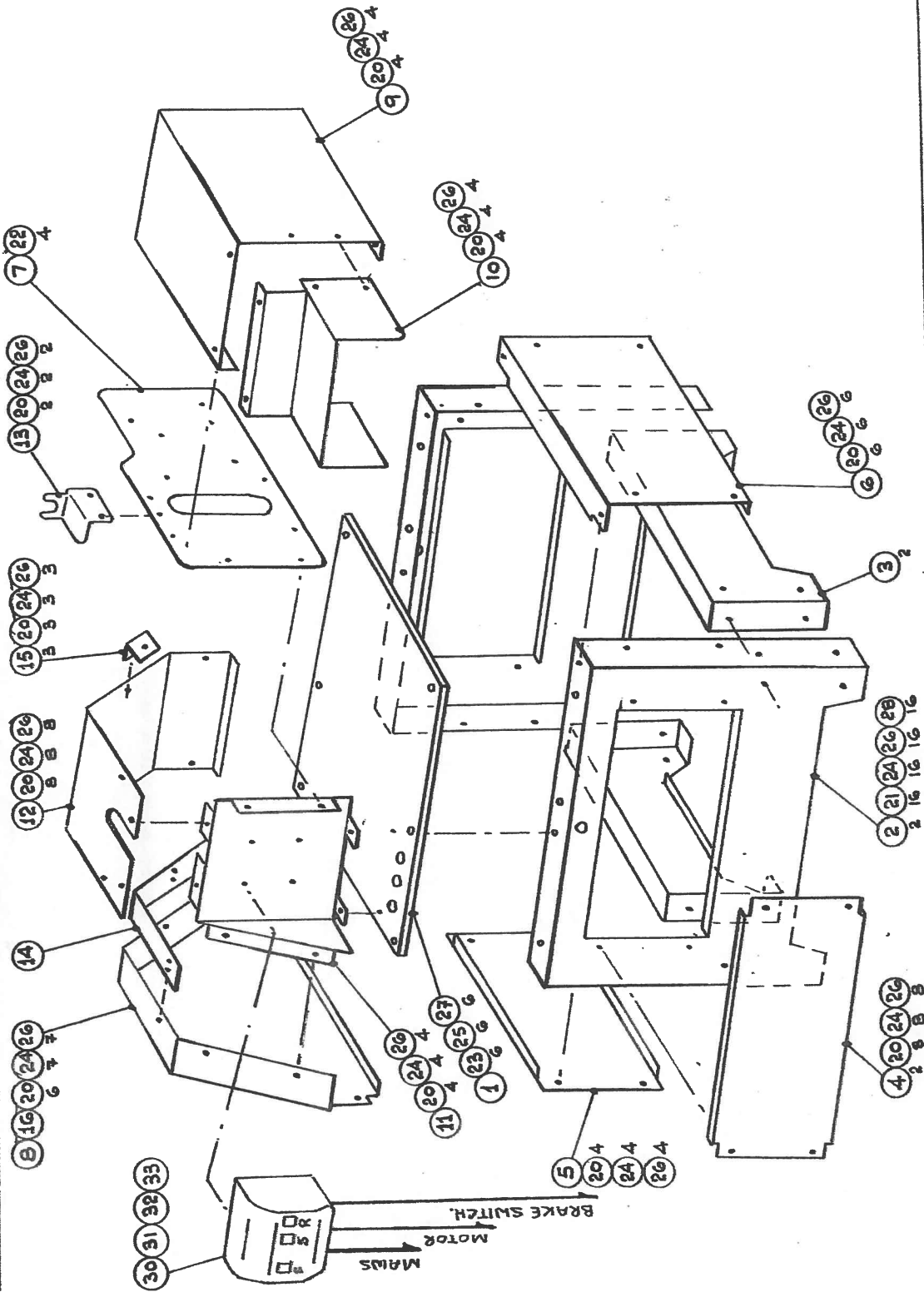
CSX 2010 CABLE STRIPPER. BRAKE BAR ASSEMBLY



DRG N° 2010

GENERAL ASSEMBLY

CSX 2010 CABLE STRIPPER



DEG N° 2010-50.

FRAME ASSEMBLY

DTX 2010 CABLE STRIPPER