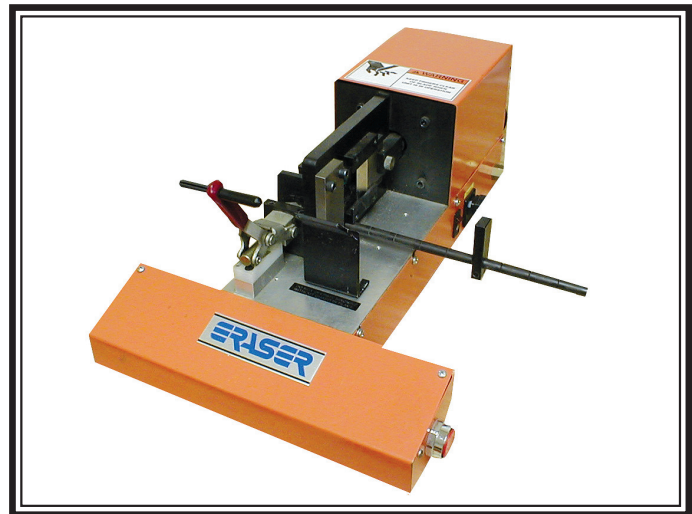
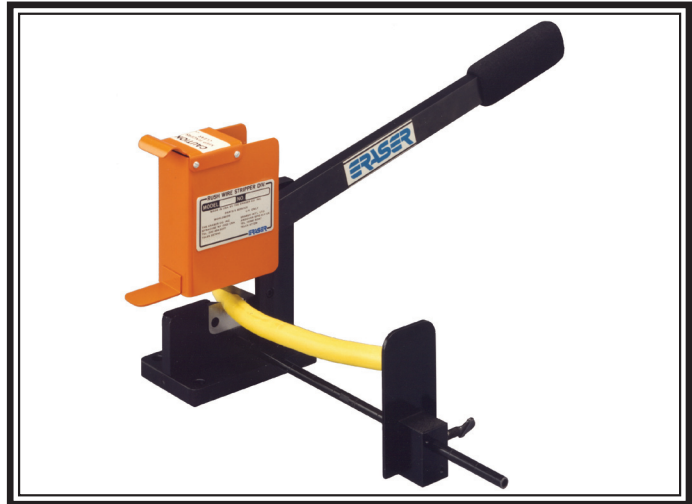




Operating Manual

Please Read Before Operating Unit



Models HC10/FC10/HCA20 Cable Cutters

Please Call for Service or Spare Parts

The Eraser Company, Inc.
PO Box 4961
Syracuse, NY 13221, USA

Phone: (315) 454-3237
Fax: (315) 454-3090
Website: www.eraser.com
E-mail: info@eraser.com

HAND, AIR OR FOOT OPERATED CABLE CUTTERS



Model HC10

SPECIFICATIONS

Models HC10, FC10 & HCA20

Specifications are the same for all models unless otherwise specified.

Max. blade opening.....1.25" dia. (31.75mmø)

Min. material size.....0.010" dia. (0.254mmø)

Max. material size

HC10 & FC10

Single copper conductor....4 AWG (5.18mmø)

HCA20

Multiple copper conductors.....1.25" dia. (31.75mmø) dependent on the size and quantity of copper strands and construction of cable.

Conveyed Force

HC10 & FC10.....up to 280 lbs. with up to 35 lbs. of force applied by operator.

HCA20.....up to 1200 lbs.

Power

HCA20.....115V 60Hz single phase, up to 90 P.S.I. air pressure

Blades.....Hardened ground tool steel, upper blade resharpenable.

Decibel rating (HCA20).....76 dB(A)

Size

HC10.....3" x 8 1/4" x 18 1/2"
(76mm x 210mm x 470mm)

FC10

Cutter assembly.....3" x 8 1/4" x 12 1/2"
(76mm x 210mm x 318mm)

Foot pedal assembly..3 1/2" x 9 1/4" x 12 1/2"
(89mm x 235mm x 318mm)

HCA20.....13 1/8" x 18 1/2" x 7 1/8"
(333mm x 470mm x 181mm)

Weight

HC10.....8 3/4 lbs. (4 Kg)

FC10.....13 1/2 lbs. (6.1 Kg)

HCA20.....19 3/4 lbs. (8.9 Kg)

ORDERING INFORMATION

AR5700 (HC10).....Hand-operated cable cutter

AR5800 (FC10).....Foot-operated cable cutter

AR0291 (HCA20).....Air-operated cable cutter
115V 60Hz

IR8775.....Conversion kit
to change HC10 into FC10

Optional Carbide Blades

PR1053.....HCA20 Front Fixed Blade

Replacement blades

HC10 & FC10

IR8743.....Lower blade

IR8774.....Upper blade and pin assembly

HCA20

IR0845.....Straight blade (moveable)

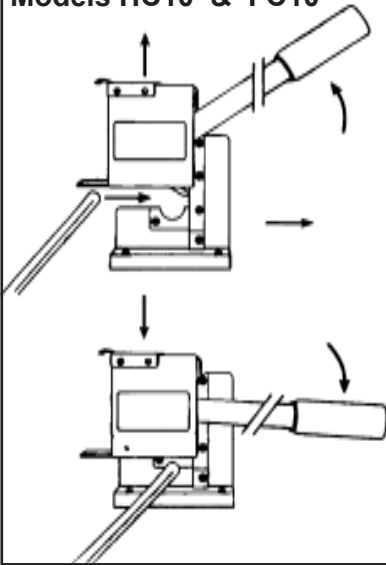
IR0846.....Front ground blade

TR0176.....Length stop rod

These units are not designed to cut wire or cable containing ferrous metals such as steel or steel alloys. Most cables containing copper or aluminum conductors may be cut, dependent on their construction.

If unsure whether a particular wire or cable may be cut on these models, send 20 feet of your material with your cutting specifications for a FREE evaluation. We will return the results and recommend the appropriate solution for your cutting requirements.

Models HC10 & FC10

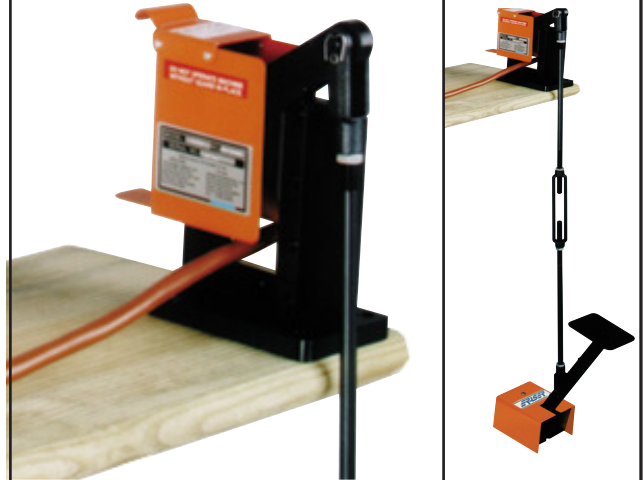


1) Model HC10: Raise handle to insert cable under blade. Model FC10: Lift guard to insert cable under blade.

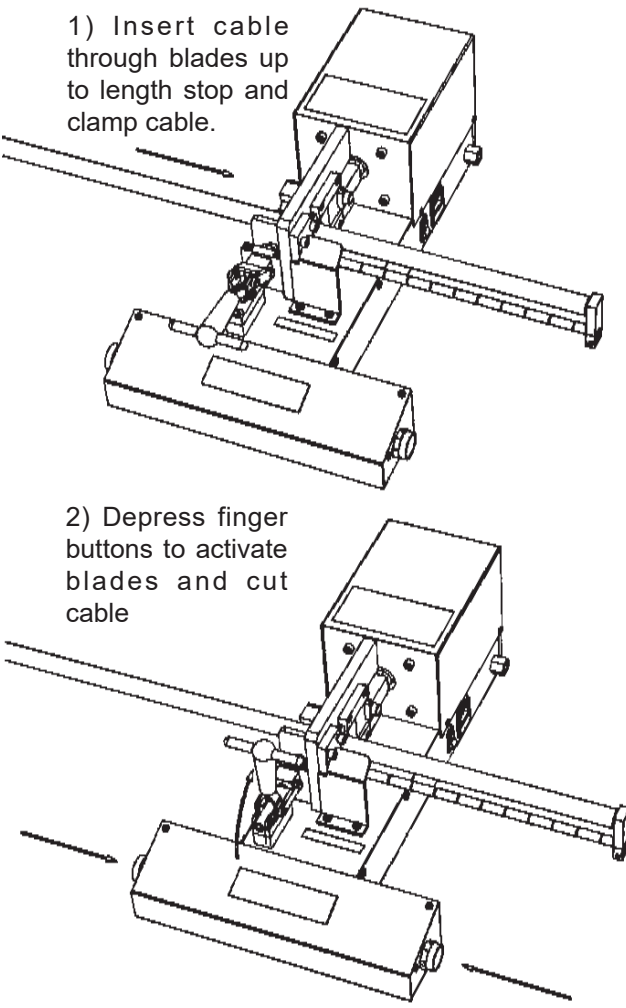
2) Guard falls into place automatically. Model HC10: Lower handle to cut. Model FC10: Depress foot pedal to cut.

HAND, AIR OR FOOT OPERATED CABLE CUTTERS

Model FC10



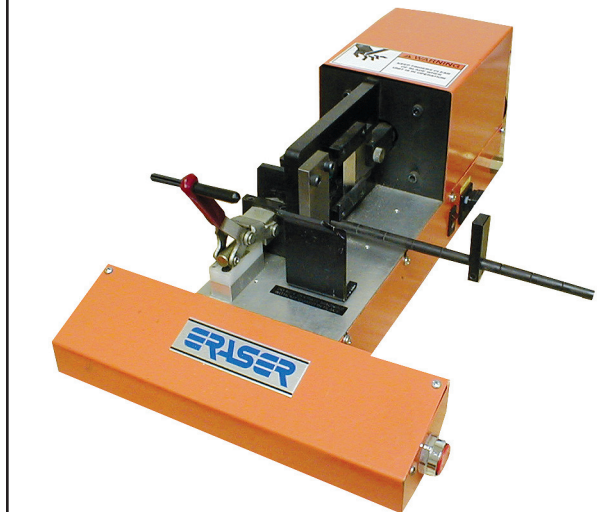
Models HCA20



1) Insert cable through blades up to length stop and clamp cable.

2) Depress finger buttons to activate blades and cut cable

Model HCA20



Models HC10/FC10/HCA20 Cable Cutters

IMPORTANT SAFETY INSTRUCTIONS

IMPORTANT! DO NOT OPERATE MACHINE UNTIL YOU HAVE READ THOROUGHLY, AND UNDERSTAND COMPLETELY, ALL PRECAUTIONS, INSTRUCTIONS AND INFORMATION ON THESE PAGES. THIS MANUAL CONTAINS IMPORTANT SAFETY AND OPERATING INSTRUCTIONS. IT SHOULD BE RETAINED WITH THE MACHINE FOR FUTURE REFERENCE.

SAFETY PRECAUTIONS - MECHANICAL

! DO NOT OPERATE UNIT WITHOUT GUARDS IN PLACE OR WITH DAMAGED GUARDS.

! DO NOT DEFEAT ANY OF THE SAFETY FEATURES.

! DO NOT PLACE FINGERS OR APPENDAGES NEAR MOVING PARTS OR IN OR NEAR OPENINGS IN GUARDS.

SAFETY PRECAUTIONS - ELECTRICAL

! ALWAYS UNPLUG UNIT FROM POWER SUPPLY PRIOR TO ANY MAINTENANCE.

! DO NOT RUN UNIT WITH INCORRECT LINE VOLTAGE.

! NEVER RUN MACHINE WITH DAMAGED OR WORN POWER CORD.

! NEVER MODIFY THE PLUG PROVIDED. IF IT WILL NOT FIT INTO THE OUTLET, HAVE THE PROPER OUTLET INSTALLED BY A QUALIFIED ELECTRICIAN.

GROUNDING INSTRUCTIONS. Grounding provides a common return path for electric current to reduce the risk of electric shock. This machine is supplied with an electric cord with an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a licensed electrician if in doubt as to whether the machine is properly grounded.

SAFETY FIRST - USE BEST PRACTICES

ALWAYS USE SAFETY GLASSES. Everyday eyeglasses only have impact resistant lenses; they are NOT safety glasses. Also use face or dust mask if cutting operation is dusty.

REMOVE ADJUSTING KEYS AND WRENCHES. Form a habit of checking to see that keys and adjusting wrenches are removed from machine before turning it on.

KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents. Always leave at least 12" (305 mm) of space around all sides and top of unit.

DON'T USE IN DANGEROUS ENVIRONMENTS. Do not use or locate machine in high-humidity environments, or expose to rain. Keep work areas well lighted.

WEAR PROPER APPAREL. Do not wear loose clothing, such as gloves, neckties, rings, bracelets, necklaces or any other clothing or jewelry that might get caught in moving parts. This is not an all-inclusive list. Wear protective hair covering to contain long hair. Non-slip footwear is recommended.

DON'T OVERREACH. Maintain proper footing and balance at all times.

MAINTAIN BLADES WITH CARE. Keep blades sharp and clean for optimal performance. Follow instructions for lubricating and changing blades and all accessories.

DISCONNECT MACHINE FROM POWER SUPPLY. Unplug the unit before servicing and when changing accessories.

Models HC10/FC10/HCA20 Cable Cutters

DO NOT EXCEED THE UNIT'S MAXIMUM MATERIAL SPECIFICATIONS. Eraser's warranty will be null and void if machine has been used in any manner that is contrary to these instructions.

CHECK FOR DAMAGED PARTS. Before continued use of the machine, the guard and all moving parts should be carefully inspected to ensure that nothing is damaged.

Ensure proper alignment of moving parts. Check for any binding of moving parts, breakage of parts, and any other condition(s) that may affect operation. Any damaged part(s) should be properly repaired or replaced prior to any continued use of the machine.

ONLY ALLOW TRAINED AND QUALIFIED PERSONNEL TO OPERATE UNIT. Always keep these instructions within reach of the machine.

USE RECOMMENDED ACCESSORIES ONLY. Consult this operating manual for recommended accessories. Use only parts supplied by The Eraser Company, Inc. Use of improper accessories will void Eraser's warranty and may increase risk of injury.

ALL REPAIRS SHOULD BE PERFORMED BY AN ERASER COMPANY REPRESENTATIVE ONLY. Unauthorized disassembly of machines will void Eraser's warranty.

WHEN USING MACHINERY, ALL SAFETY PRECAUTIONS – INCLUDING, BUT NOT LIMITED TO, THOSE LISTED ABOVE – SHOULD BE FOLLOWED TO REDUCE THE RISKS OF FIRE, ELECTRIC SHOCK, AND PERSONAL INJURY, AND DEATH.

IMPORTANT: NO LIABILITY WILL BE INCURRED BY THE ERASER CO. FOR INJURY, DEATH, OR PROPERTY DAMAGE CAUSED BY A PRODUCT WHICH HAS BEEN SET UP, OPERATED, AND/OR INSTALLED CONTRARY TO ERASER'S WRITTEN OPERATING MANUAL, OR WHICH HAS BEEN SUBJECTED TO MISUSE, NEGLIGENCE, OR ACCIDENT, OR WHICH HAS BEEN REPAIRED

OR ALTERED BY ANYONE OTHER THAN THE ERASER COMPANY, OR WHICH HAS BEEN USED IN A MANNER OR FOR A PURPOSE FOR WHICH THE PRODUCT WAS NOT DESIGNED.

OPERATING INSTRUCTIONS

SET-UP:

CAUTION: Blades are extremely sharp! Be sure to keep hand and fingers away from blades at all times.

HC10:

The HC10 hand operated cutter is shipped fully assembled. Bolt the unit to the workbench securely using the four holes in the base. The unit may be mounted in any direction, but it is suggested that it be mounted so that the handle does not protrude beyond the workbench edge. To install the length stop, screw one end of one rod into the hole at the base of the HC10. Add other rods as desired to the first rod. Slide the stop plate onto the rods and secure with the screw. The two rods are marked at 1" increments to allow consistent measurements up to 24". (Additional rods may be purchased, see ordering information)

FC10:

The FC10 foot operated cutter is shipped partially assembled. To assemble the footpedal linkage to the cutter, refer to the "Linkage and Foot Pedal Assembly" drawing in this manual. The turnbuckle is adjustable to accommodate bench heights of 30" to 36" (762mm to 914mm). With the unit assembled, bolt the cutter assembly securely to the workbench. The cutter must be mounted so that the operating lever protrudes over the edge of the bench, or alternatively, a hole may be drilled in the bench to accommodate the linkage assembly so that the footpedal does not protrude beyond the front of the bench. In either event, the operating linkage must move freely.

Bolt the footpedal assembly to the floor directly underneath the cutter assembly. To access the four mounting holes of the footpedal assembly, remove the cover by loosening the pan head screw located on the top of the cover.

Models HC10/FC10/HCA20 Cable Cutters

Adjust the linkage assembly by use of the turn-buckle until the footpedal stops traveling just before hitting the floor. Once properly adjusted, tighten all linkage jam nuts securely to lock the adjustment in place. To install the length stop, screw one end of one rod into the hole at the base of the FC10. Add other rods as desired to the first rod. Slide the stop plate onto the rods and secure with the screw. The two rods are marked at 1" increments to allow consistent measurements up to 24".

(Additional rods may be purchased, see ordering information)

HCA20:

The HCA20 is shipped assembled except for the strip length stop, 5/64" and 5/32" allen wrenches which are packaged separately. The unit requires a clean, dry, regulated air supply, of minimum 90 PSI and not exceeding 100 PSI.

Install the length stop rod by screwing it into the threaded hole located below the lower blade guide and in front of the stationary blade. The rod is marked by 1" increments to allow consistent measurements up to 12". (Additional rods may be purchased, see ordering information) Connect the air supply to the unit, using a 1/4" n.p.t. male connector. Locate the unit on the bench so that the two finger switches are facing the operator. Attach the power cord to the IEC connector at the back of the HCA20. Plug the unit into the appropriate properly grounded power supply, 115V 60Hz.

OPERATION:

NOTE: The HC10 and FC10 are designed to be operated with a maximum of 35 lbs of force applied by the operator to either the footpedal or operating lever. The HCA20 is designed to operate at a maximum 100 PSI and conveys a force of 1200 lbs. on the material to be cut. The cutters are NOT designed to cut wires or cables containing ferrous metals, such as steel or steel alloys. Solid copper single conductors of up to 4 AWG (21.1mmø) may be cut. Cables or small bundles of wire up to 1 1/4" (31.75mmø) in diameter may be cut, **DEPENDENT ON CONSTRUCTION**. Cutting cables containing many heavy strands of copper or aluminum may not be possible, while cables containing many small strands may usually be cut.

A good guide to use to determine a wire or cable's

applicability for the cutter is whether or not it is necessary to exert excessive force on the lever or footpedal to shear the material. If unsure, send a sample to the factory and we will determine its applicability for the unit.

CAUTION:

The blades are extremely sharp! Be sure to keep hands away from blades during cutting!

HC10:

To admit the material to be cut to the blades, lift the guard up with the material itself, utilizing the lower tab on the guard, or by hand with the upper tab. Raise the operating lever to lift the upper guillotine blade and seat the material on the lower curved blade. The guard will slide down automatically to protect the operator during cutting. Lower the operating lever, applying force until the material has been sheared.

FC10:

Follow above procedure for HC10 to admit material to blades. Note, however, that the blades are already open on the footpedal operated cutter. After admitting material, step on the footpedal and push it all the way down to shear the material. Bring the footpedal back up **gently** with your foot. **Do not** release the footpedal at the floor and allow it to spring back up by itself, as this may cause damage to the unit.

A conversion kit (IR8775) is available to convert the Model HC10 into a footpedal operated Model FC10 if desired. Instructions will be enclosed with the conversion kit.

HCA20:

To load the material to be cut, open the holding clamp and adjust the length stop to the desired cut length using the 5/32" allen wrench provided. Place the material in the blades, and clamp, up to the length stop, and close the clamp. Adjust the check nut on the back of the clamp until the material is held with the desired pressure.

To operate the unit, adjust the air supply between 40 and 100 PSI depending on the material. Turn the power switch on using the I/O switch located on the side of the unit. To cut the cable, depress

Models HC10/FC10/HCA20 Cable Cutters

both finger switches, located on each side of the unit, simultaneously. The blade will actuate and cut the material.

MAINTENANCE:

On all units, periodically lubricate all moving parts lightly with a light grade machine oil to ensure smooth operation. Inspect blades periodically for wear. The guillotine blade may be resharpened several times, depending on extent of wear. The curved blade must be replaced when worn.

To remove guillotine blade for sharpening or replacement on the HC10 or FC10, first remove the guard by removing the two shoulder screws and washers which secure it. Then remove the operating lever pivot screw and spring. Lift the blade up and out, by grasping the blade pin.

*To replace the guillotine blade, reverse the procedures. (Refer to ordering information for replacement blades)

The curved blade is removed by removing the two screws securing it to the cutter housing.

To replace the guillotine actuating blade on the HCA20, first disconnect the unit from the power supply. Remove the blade guard using a phillips screwdriver and sliding and lifting the guard out of the slots. Loosen the set screw on the blade pin with the 5/64" allen wrench provided. Pull the blade pin out and slide the blade forward to remove it. To place a resharpened or new blade into the unit, reverse the procedure. If necessary, remove the two socket head cap screws holding the curved blade in place. **Note: be certain to replace the blade guard before operating the unit!**

CAUTION:

The blades are extremely sharp! Exercise caution when removing blades for resharpening or replacement.

On the FC10, periodically check to ensure that all of the jam nuts in the linkage are tight and to ensure that the footpedal assembly does not come out of adjustment. Also, the non-slip pad on the footpedal should be replaced when worn.

TROUBLESHOOTING:

PROBLEM: Material does not cut.

Solutions:

1. Check that blades are sharp.
2. Check that material is properly seated in curved blade.
3. Check that material is not too heavy for the unit to cut (excessive force needed).
4. On HCA20, increase air pressure, but not exceed 100psi.

PROBLEM: Cutter does not operate.

Solutions:

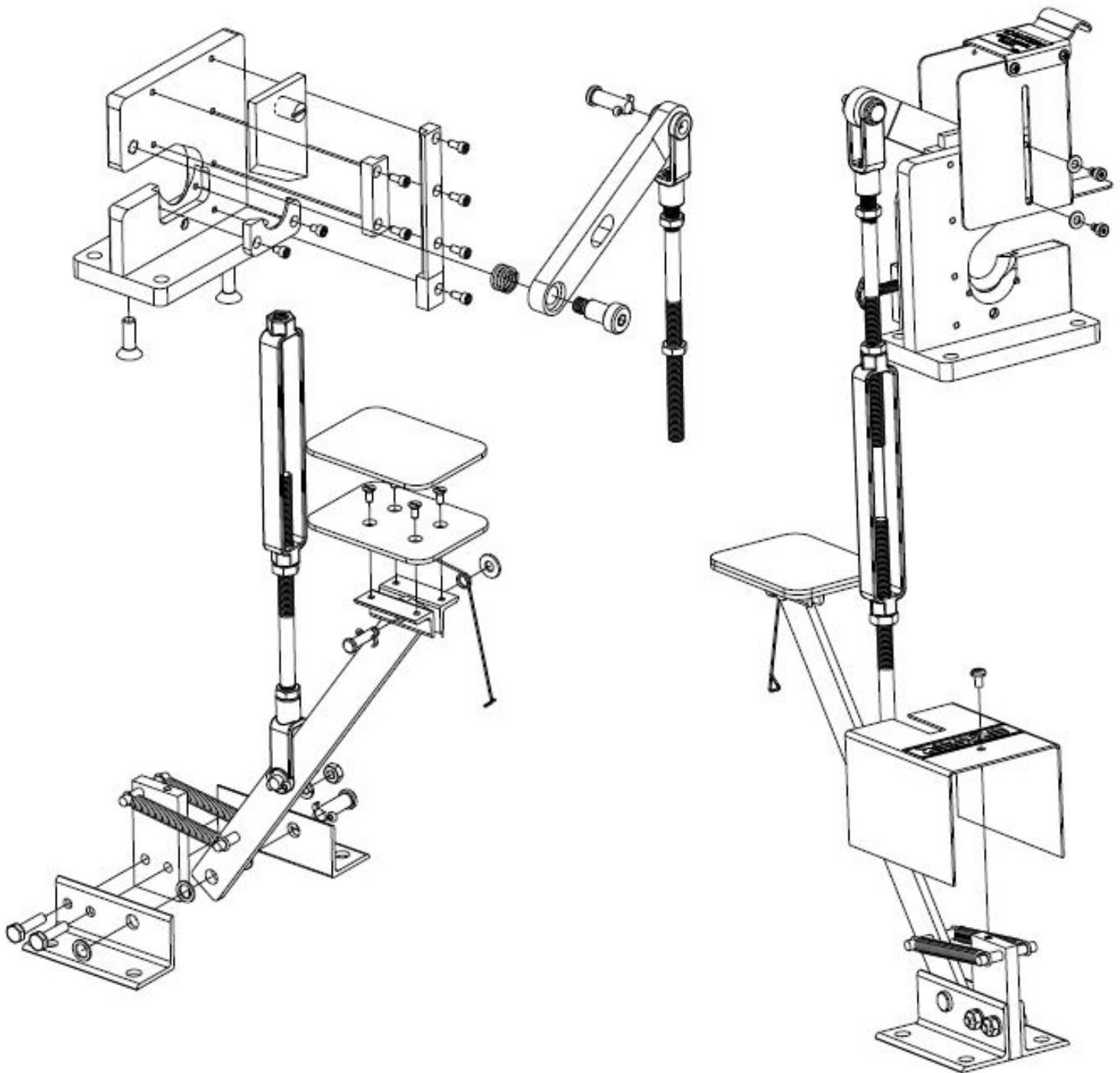
1. Check that jam nuts are securely tightened on footpedal linkage (on FC10).
2. Check that footpedal linkage is properly adjusted (on FC10).
3. Check that operating lever can move freely and is not obstructed in any way.
4. Check that all moving parts are lubricated and moving freely.
5. Check that air supply is properly connected (HCA20).
6. Be sure power is connected and on/off switch is on (HCA20).
7. Be sure both buttons are pushed simultaneously (HCA20).
8. Check fuse (HCA20).

PROBLEM: Guard does not slide freely. (HC10 and FC10)

Solution:

1. Check that slots in guard are clear of debris and free of burrs.

LINKAGE AND FOOT PEDAL ASSEMBLY (FC10 ONLY)



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