

Hamilton Manufacturing Corporation

1026 Hamilton Dr. Holland, OH 43528 • Phone: 419-867-4858/800-837-5561 • Fax: 419-867-4867 • www.hamiltonmfg.com

Autotec CRC Retrofit Installation Instructions #49-0563B

IMPORTANT: The installation of this retrofit kit may interfere with other third party equipment already attached to the door of the ACW. Relocation of this retrofit card reader is not recommended. If this installation does interfere with other equipment, that equipment may need to be moved or eliminated.

1. Turn off power to the machine by turning off circuit breaker at distribution panel in equipment room.
2. Remove the following components from the machine:
 - Validator
 - Stacker
 - Controller
 - Hopper
 - Coin Mechanism
3. Remove faceplates and Lexan from the door of the machine.
4. Attach the template (using the screws provided) through the left coin slot opening (Diagram A).
5. Center punch through the template to mark the five hole locations (Diagram A).
6. Remove the template.
7. Drill three holes in the door (Diagram A). It is recommended to start with a smaller drill size than is needed for the holes and work your way up to the correct size. The use of cutting oil is also recommended. Press hard and drill slowly.
8. Clean oil and metal flakes thoroughly from the door and cabinet.
9. Reattach the Lexan and faceplates to the door.
10. Drill holes in the Lexan to match the holes in the door from the inside of machine.
11. Use a vacuum to remove debris from inside the machine.
12. An outlet will be needed in the cabinet. The necessary utility box, cover and socket are provided. Please have this installed by qualified personnel only.

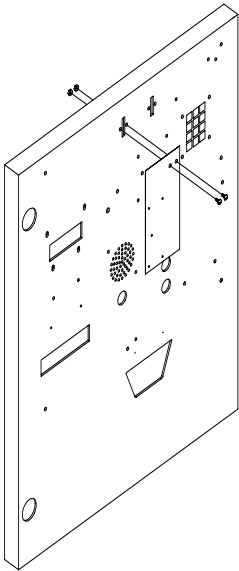
Important: Remove power to machine by turning off the circuit breaker in the equipment room. Turning off the red ON/OFF switch inside the ACW does not remove power from the electrical service box the outlet is added to.

13. Feed cord through the large hole and attach the card reader using the four screws and lock washers provided.
14. This step may not be necessary for all machines. To determine if it is, locate the ACW's serial communication connector. (Refer to Diagram B) This connector is usually located beside the ACW

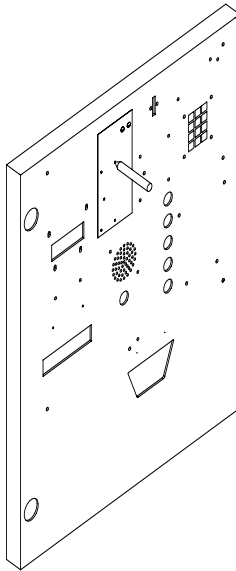
Controller, and can be identified as a short harness branch with a 4-position white connector. It is used for connecting the communications cable running to the POS. For older style ACW's, this plug may be located inside a metal bracket mounted to the inside of the cabinet door. Once the connector is located, determine if there are three or four positions already filled. If all four positions are used, this step is not necessary. If only three positions are filled, insert the round terminal of the ACW-CRC addition harness into position four of the ACW communications plug. Route the wire neatly and insert the other end into position 13 of the 18-position card edge connector.

15. Place the CRC Box in the machine under the Hopper shelf with the connectors facing the door.
 - a. Remove the Surge Protector from box and place the enclosed phone cable into the end labeled "EQUIP".
 - b. Plug the other end of the phone cable into the ACW-CRC computer.
 - c. Insert the forked terminal under the head of the supplied #8-32 x 1/2" screw (drilling a 3/16" hole if necessary). See diagram E.
 - d. Secure screw with the supplied #8 nylon locking nut, making sure terminal stays under screw head.
 - e. Attach the Surge Protector to the hopper support plate using the provided hook and loop tape.
 - f. Plug the phone line into the remaining jack on the Surge Protector.
16. Add wire harness as shown in Diagram C.
17. Refer to diagram D and insert the white and yellow wires from the D-Com harness into the top card edge connector of the ACW harness. Counting from the first position at the right edge of the connector, the yellow wire installs at position 15, and the white wire at position 16. DO NOT rely on any numbers marked on the connector shell for the wire locations as they may be incorrect. Follow the diagram carefully because once the wires are inserted and snapped into place they are difficult to remove.
18. Replace components into the machine. When replacing the Controller check if the Controller that was removed has a cover with a cut out window to view the display. If it does, remove it from the old Controller and install on the replacement. Newer machines with the additional weather shroud around the Controller will have Controllers that do not have (or need) this cover.
19. Secure harness with the wire ties provided. Choose a placement where the harness will not get pinched or will not interfere with anything.
20. Attach decals.
21. When powering the machine up, two programming categories may need to be adjusted. First, in older cabinets the display window is smaller than the currently used display. If you can not see the first character of the display when the Controller is installed in the cabinet, set the programming category called "SET DISPLAY STYLE" to "RETROFIT (18 CHAR)". Secondly, if your Hopper is a model HGP, the programming category "SET HOPPER STYLE" will have to be set to "OLD STYLE HOPPER".

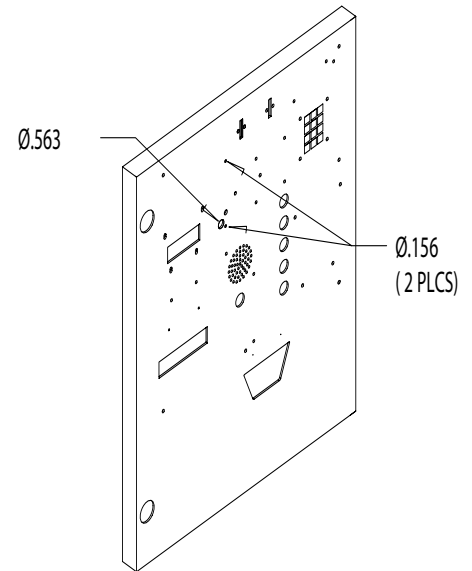
Diagram A



ATTACH TEMPLATE



MARK HOLE LOCATIONS



DRILL TO DIA. NOTED

Diagram B

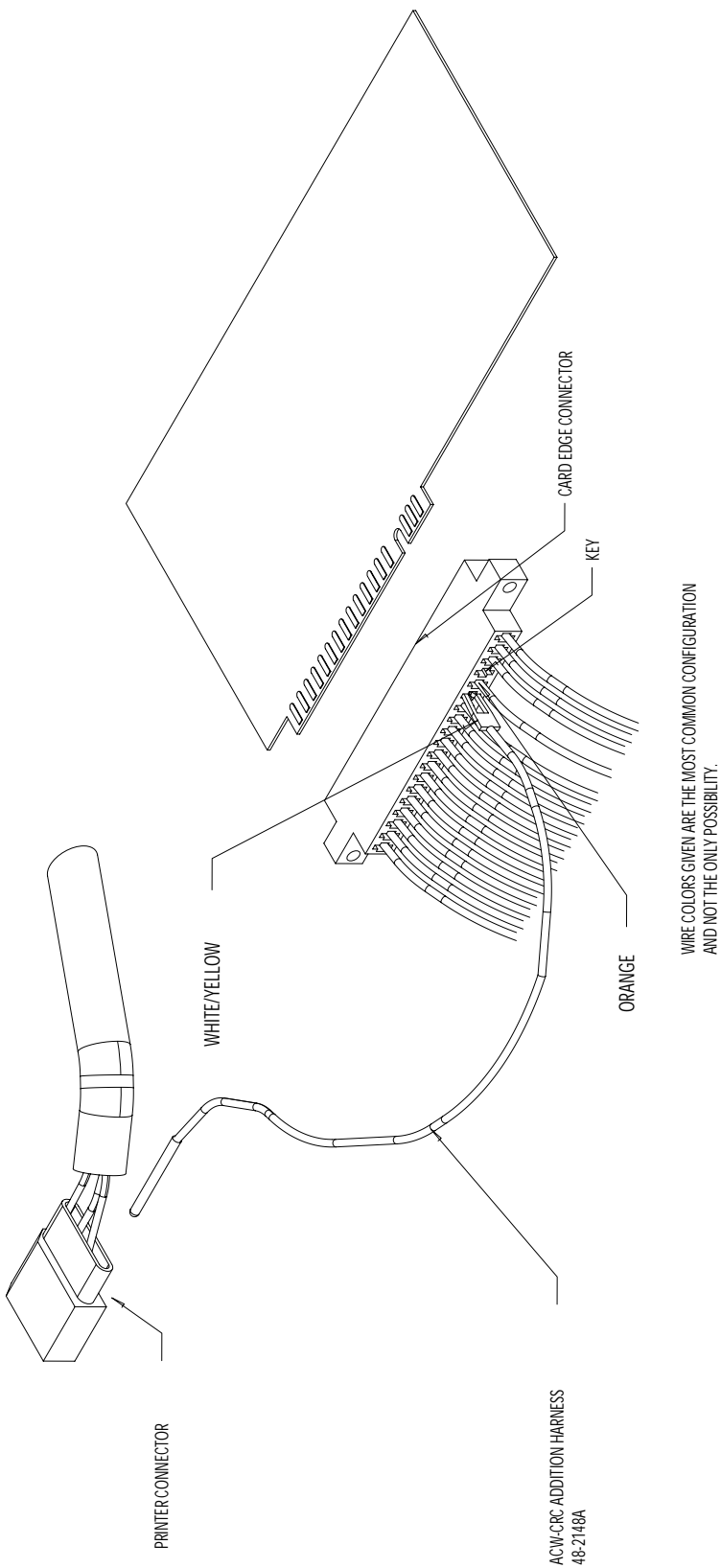


Diagram C

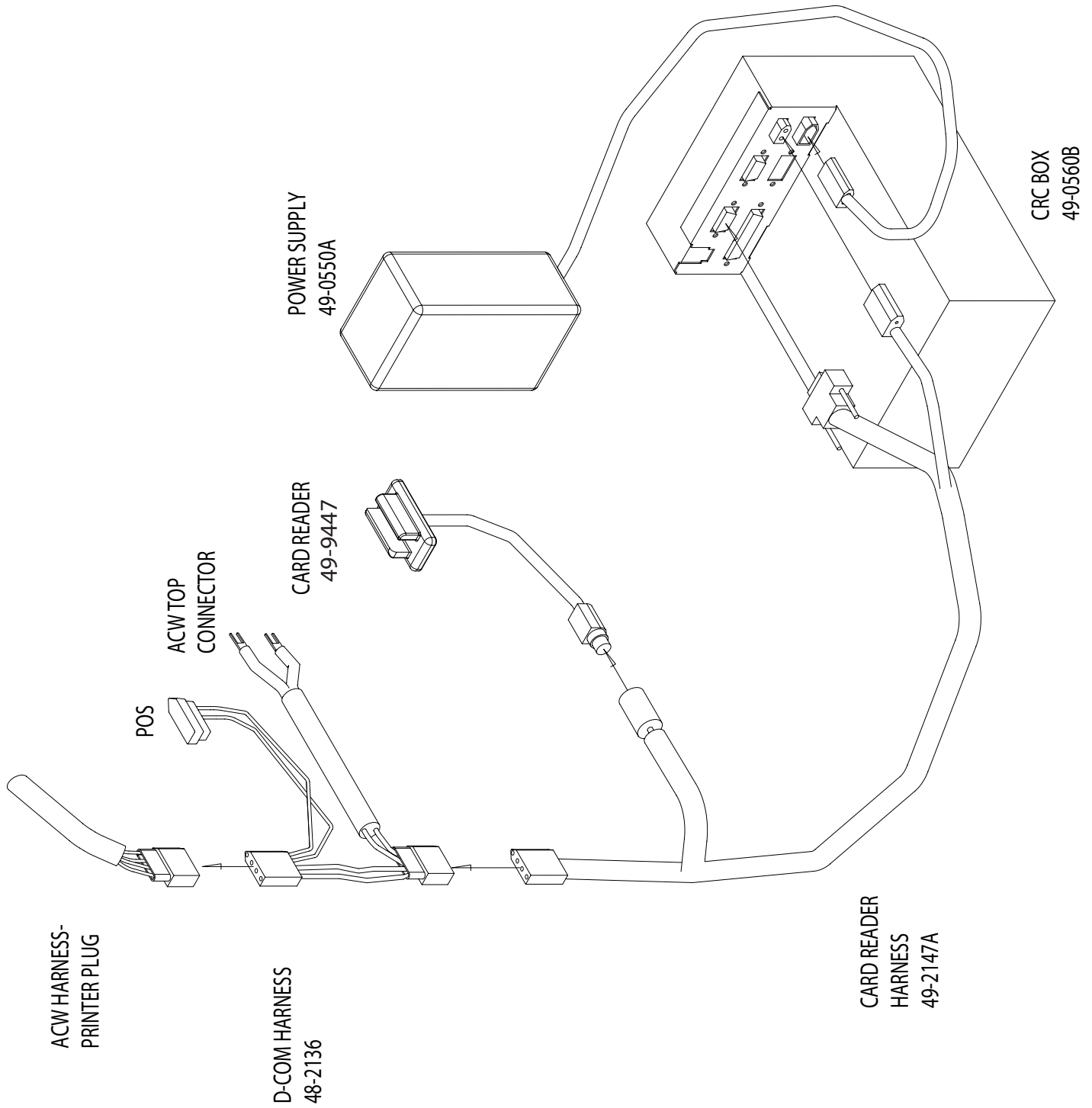


Diagram D

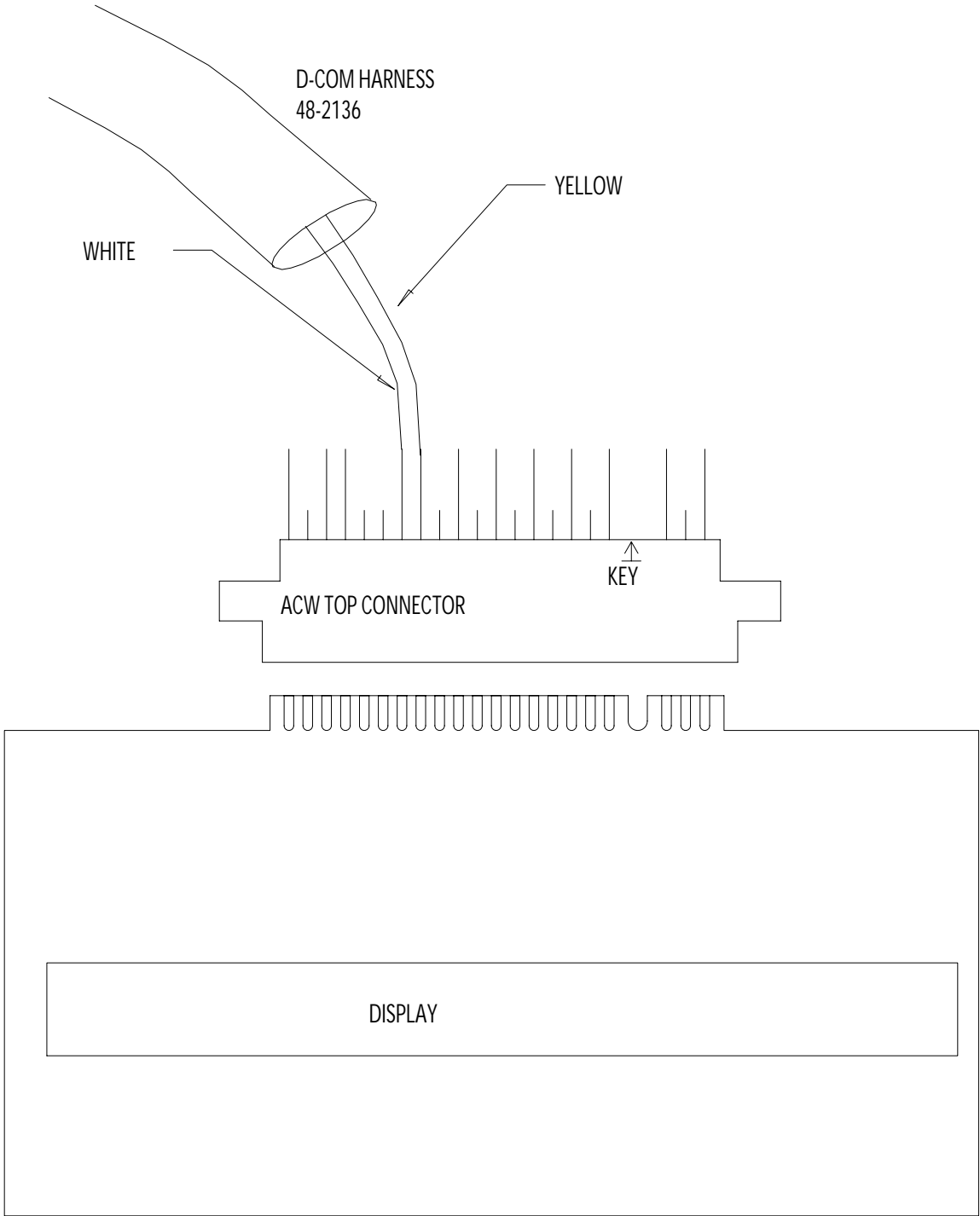
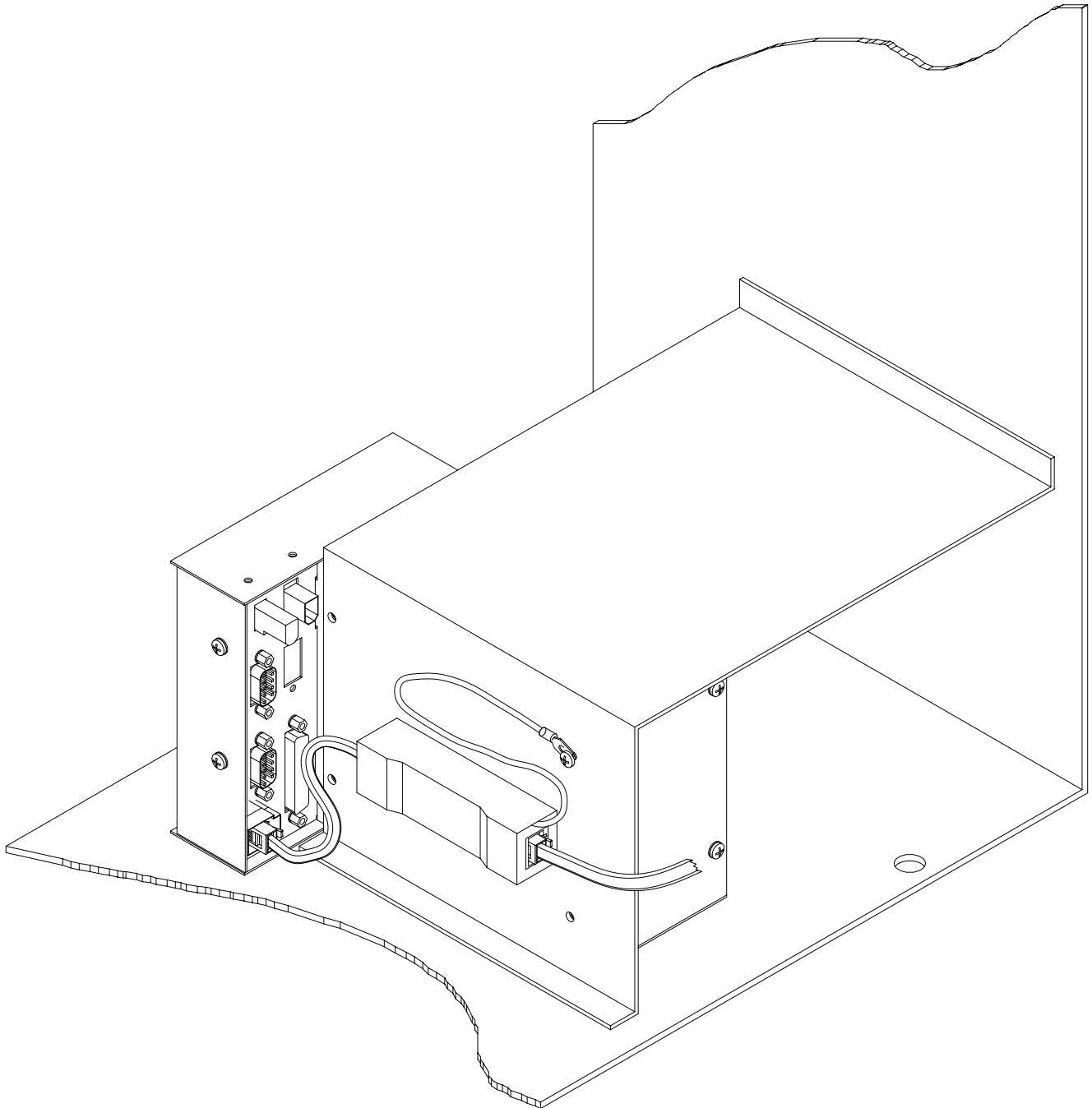


Diagram E



Recommended Mounting

Hamilton Manufacturing Corporation

1026 Hamilton Drive
Holland, OH 43528

Sales Phone: (888) 723-4858 **Sales Fax:** (419) 867-4850
Customer Service Phone: (800) 837-5561 **Customer Service Fax:** (419) 867-4857
Advanced Systems Phone: (866) 296-3365 **Advanced Systems Fax:** (419) 867-4857
Parts Phone: (866) 835-1721 **Parts Fax:** (419) 867-4867

Website: <http://www.hamiltonmfg.com>

Email Addresses:

service@hamiltonmfg.com

sales@hamiltonmfg.com

parts@hamiltonmfg.com

info@hamiltonmfg.com