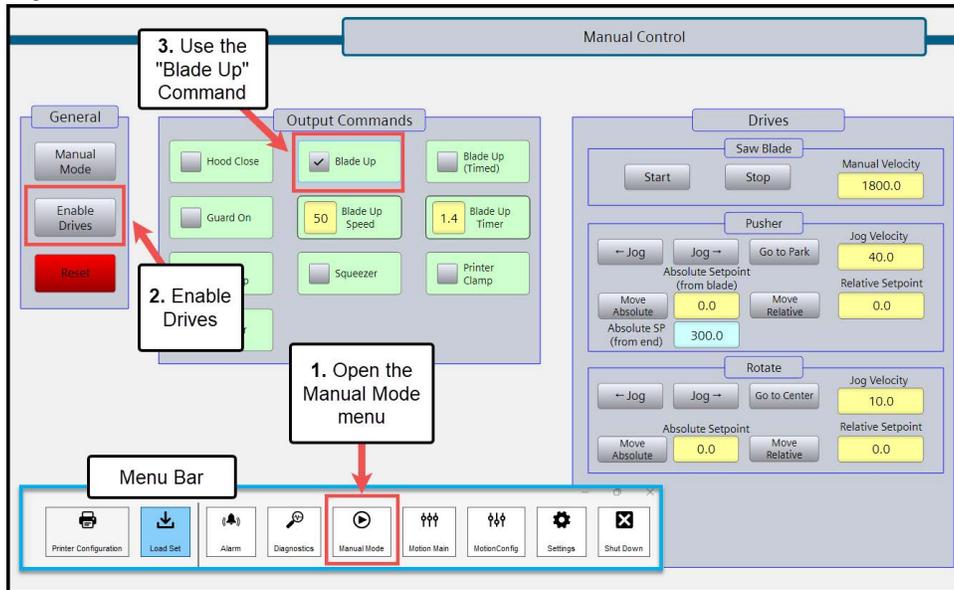


## HORNET II: MAINTENANCE

- c) Use the "Reset" button to resume operation.
10. Open the manual mode menu using the button on the menu bar.
  - a) Select "Enable Drives" to start all drives.
  - b) Use the "Blade Up" command to bring the saw blade up through the table. Observe the saw blade motion. The saw blade should not have any wobble or vibration when rotating.

Figure 8: Manual Mode Menu



Check the saw blade every shift for the following and replace or repair when needed:

- Cracks, warping, missing or dull teeth, etc.
- Observe any wobble or vibration during rotation.
- Check that the bolts holding the blade to the hub are secure.

11. Perform a calibration. See [Calibrating on page 105](#).

## Printer

### Ordering Supplies

To order supplies for the *Hornet II* printer, contact REA JET directly. MiTek does not sell the ink.

Once an account is set up, future orders can be placed by providing a PO either of the ways listed here.

- E-mail to [customerservice@reajetus.com](mailto:customerservice@reajetus.com), or
- Call **440-232-0555**

## HORNET II: MAINTENANCE

**Table 7-5: Printer Supplies**

Description	REA JET Part #	MiTek Part #
Black Ink: Black Eagle CS, Chip	61112000	N/A



Only use the specified ink in this printer!

Ink specified for other MiTek inkers and printers will damage this unit.

The ink must be stored between 59°F and 95°F and has a 10-12 month shelf life. Refer to the “best before” date printed on the cartridge.

To place your very first order with REA JET, see [Placing Your First Supplies Order Through REA JET on page 116](#).

### How Much Ink Will I Use?

The amount of ink you will use depends greatly on the type of parts you cut and the quantity of parts each day. Basic guidelines are listed below to help you determine how much ink to purchase at one time. These guidelines are based on a **5-day work week, 2x shift/day**. Adjust these numbers to reflect your work week.

- On average, the 4 ink cartridges in each printer (8 cartridges total) need to be replaced weekly.
1. Placing Your First Supplies Order Through REA JET

Consumable supplies (ink) must be purchased from either REA JET or a local distributor prior to the saw’s installation, and it **MUST** be present at the installation of the saw. MiTek does not sell the ink. The most efficient way to place your first order is as follows.

1. Create an account with REA JET using the New Customer Form on the REA JET website:  
*New Customer Form:* <https://reajetus.com/new-customer-form/>
2. After creating an account with REA JET, see [Ordering Supplies on page 115](#) for the ordering procedure.
3. Orders should be placed at least 3 weeks prior to the saw installation date to ensure the supplies will be there during installation.

## Printer Components Overview

### Printer Controller Units

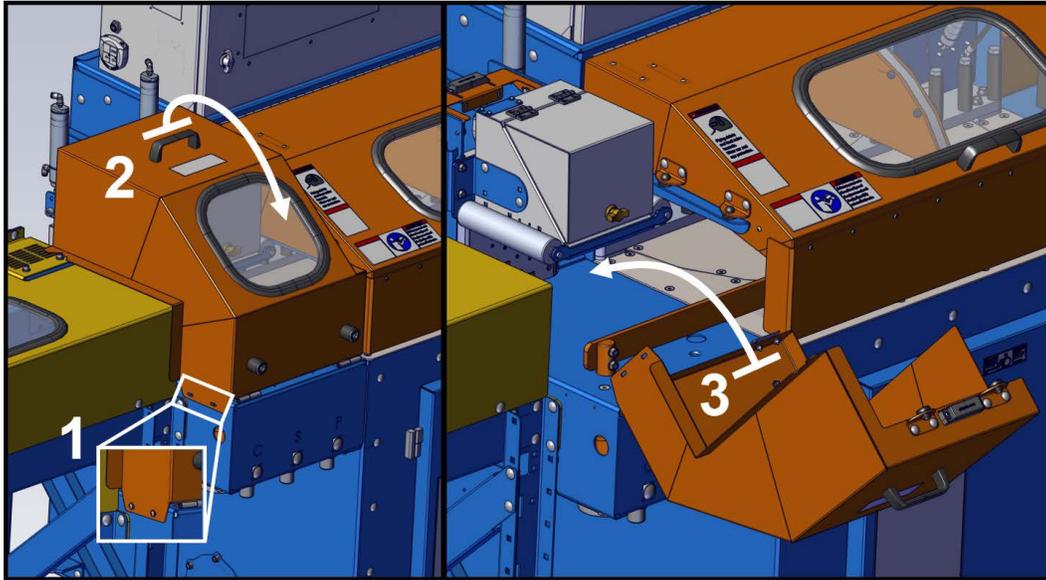
The machine software communicates with the control units in the printer electrical enclosure to determine what to print and when. The control unit then sends a message to the print head(s). The printer controller units are located in the Printer Electrical Enclosure. See [Operator Panel Electrical Enclosure on page 149](#).

## HORNET II: MAINTENANCE

### Print Hood

A print hood covers the printer area and must be opened to access the printer enclosures. The print hood is equipped with a sensor that will put the machine in an emergency stop state when the hood is opened.

Figure 7-1: Opening and Closing the Print Hood



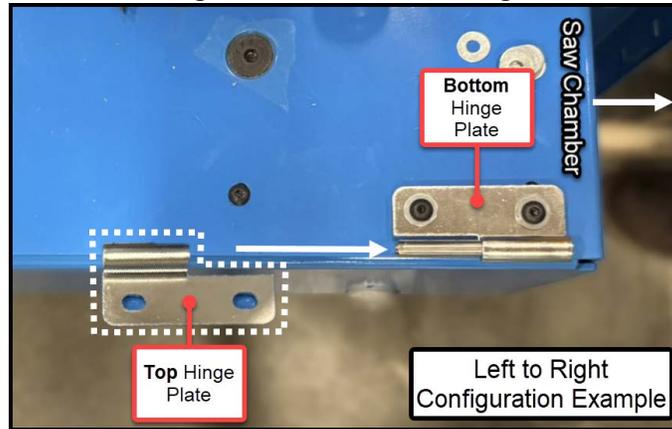
To open and close the print hood:

1. Remove the screws securing the print hood as seen in [Figure 7-1](#) with a 1/2" wrench and a 5/32" hex key.
2. Once the screws have been removed, pivot the print hood open by pulling the handle on the top of the print hood.
3. The print hood will come to a natural resting position against the gatekeep assembly.
4. To close the print hood, gently pivot it up, towards the printers, until it comes to the original position.
5. Always secure the print hood with the screws when closed.

## HORNET II: MAINTENANCE

The print hood can also be completely removed for maintenance by sliding the top hinge from the bottom hinge when the print hood is open. The top hinge slides away from the saw chamber for removal.

**Figure 7-2: Print Hood Hinges**

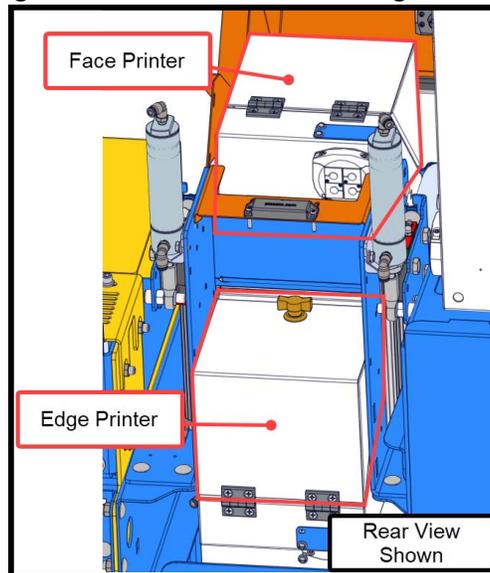


### Printer Enclosures

The *Hornet II* saw is equipped with 2 printer enclosures:

- Face Printer           Marks the FACE of the material.
- Edge Printer           Marks the EDGE of the material.

**Figure 7-3: Bottom Plate and Edge Printers**



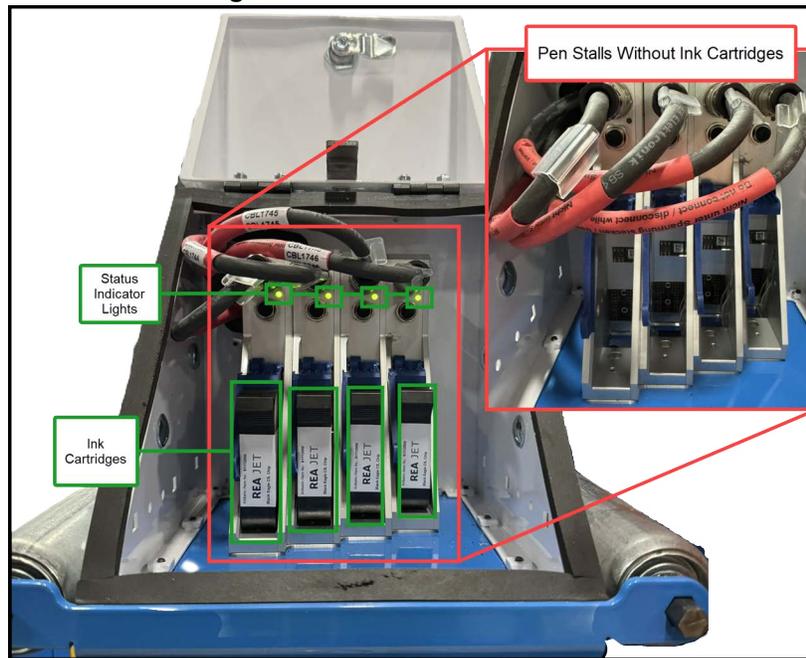
- **NOTE:** Some figures are depicted without guarding for clarity.

The printer enclosures contain pen stalls that the ink cartridges are inserted into. The ink cartridges directly mark a print target according to the signals received from the control unit(s). Each printer has 4 pen stalls and 4 ink cartridges.

## HORNET II: MAINTENANCE

The part of the ink cartridge that is exposed and marks the material is commonly referred to as a print head.

**Figure 7-4: Printer Enclosure Detail**



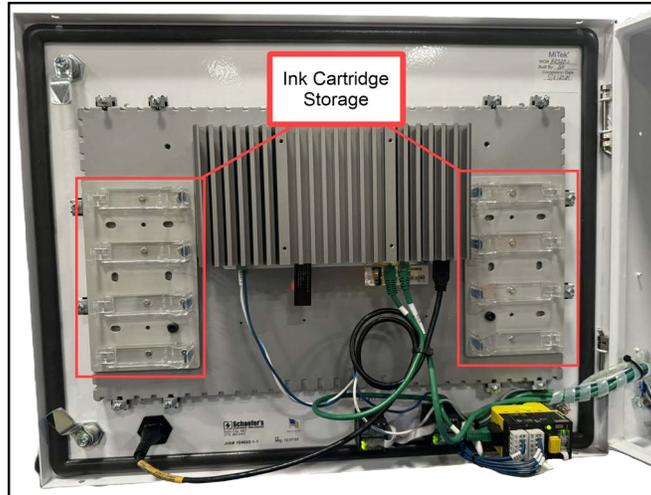
## Maintaining the Printer

### General Maintenance Reminders

- Always wear safety glasses and rubber gloves when handling ink.
- If ink makes contact with a person's skin, hair, eyes, or clothes, refer to [Treatment for Hazardous Substances on page 11](#).
- Never clean the print heads with pressurized air.
- Always store extra ink cartridges in a temperature-controlled area. The temperature must stay above 32 degrees Fahrenheit to prevent ice crystals from forming and clogging the printer. The interior of the control operator interface enclosure has an area for storing ink cartridges. See [Figure 7-3](#).

## HORNET II: MAINTENANCE

Figure 7-5: Ink Cartridge Storage



Lint-free cloth  
Purified water  
Washing station

### Cleaning the Print Heads

	 <b>CAUTION</b>
 	<b>Wear goggles and gloves when handling ink.</b>

If ink or makes contact with a person's skin, hair, eyes, or clothes, refer to [Treatment for Hazardous Substances on page 11](#).

Follow this procedure carefully to clean the print heads correctly. Failing to follow these instructions will push debris into the print head and shorten its life. When a print head is damaged by dust and debris, it may require replacing the ink cartridge.

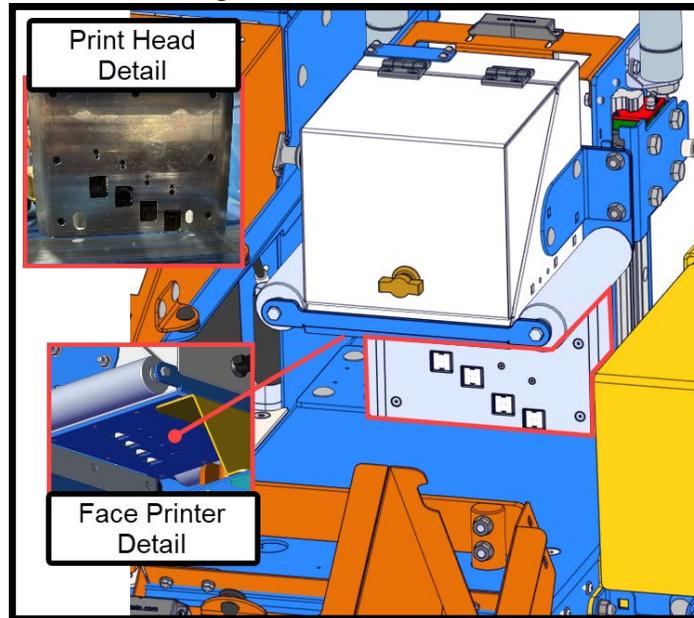
Clean the print heads before every shift with this procedure:

1. Ensure the printer is completely powered off before cleaning the print heads.
2. Using distilled or deionized water, dampen a non-abrasive, lint-free cloth. Ensure it is not a dry cloth may cause scratches. You may wish to fold the cloth in quarters to prevent ink penetrating through.
3. Dab lightly on each print head using the damp cloth. Do not apply too much pressure as the cartridge could become unseated from the pen stall and cause damage to the printer.
4. Use the damp cloth to dissolve any dried ink by holding it gently against each print head.

## HORNET II: MAINTENANCE

5. Once the nozzles appear to be clean and only fresh ink is observed on the cleaning cloth, move to the next cartridge and repeat until all cartridges are clean.

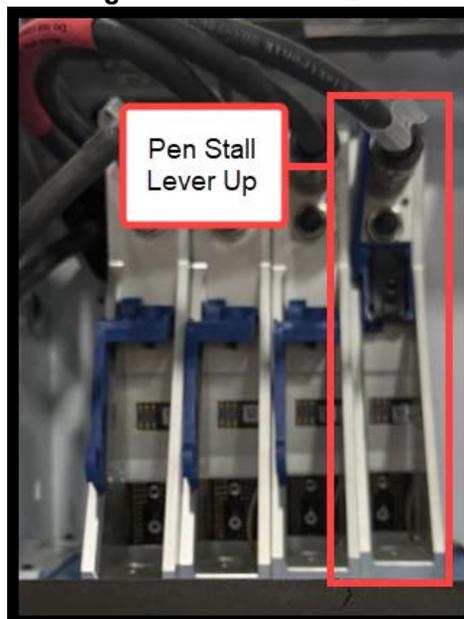
**Figure 7-6: Print Head Detail**



### Replacing an Ink Cartridge

1. Ensure the printer is powered off. Never remove a cartridge from a pen stall while the printer is powered on.
2. Lift the lever on the pen stall you wish to place an ink cartridge in, or that is housing an ink cartridge intended for replacement.

**Figure 7-7: Pen Stall Lever**



## HORNET II: MAINTENANCE

3. Gently pull up (at a 45 degree angle) on the top of the ink cartridge to remove it if necessary.
4. To place an ink cartridge into the pen stall, gently insert it at the same angle as removal (where the far end drops into the carriage first) and push down.
5. Once the ink cartridge is seated, return the lever (see [Figure 7-7](#)) to a closed position to secure.

### Re-Using a Cartridge After an Operational Pause

1. Once a cartridge has been used, follow these guidelines to improve its shelf life:
  - Remove the cartridges at the end of every day from the printers and store them in the specialized brackets in the operator panel. See [Figure 7-5 on page 120](#).
2. Upon removing the ink cartridge from storage for re-use, clean and install them as described in [Cleaning the Print Heads and Replacing an Ink Cartridge](#).