

# Kit Instructions

Core Processor Upgrade (7350)

7350-K137  
Issue A



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*Email:* [FD230036@ncr.com](mailto:FD230036@ncr.com)

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### Revision Record

Issue	Date	Remarks
A	Feb 2016	First issue.

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# Core Processor Upgrade

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This publication provides the following installation procedures for upgrading the NCR FastLane SSCO E-Box processor:

- Upgrading the CPU
- Installing the Fan
- Routing Cables

## Kit Contents

The Core Processor Upgrade Installation Kit contains the following:

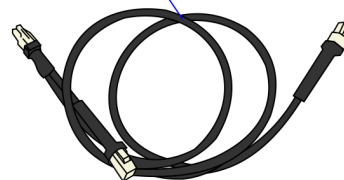
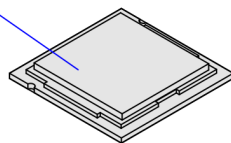
Acorn Nut, 6-32, 5/16 Width, 11/32 Height  
006-8611534

Fan Guard  
006-8613080

Fan, 12V, 119 mm, 1900RPM, 75.9 CFM  
497-0475842

Processor, Intel Core i3 2120  
006-8616835

Cable, Input Belt DC Power  
497-0434119



## Installation Procedures

Upgrading the NCR FastLane SSCO E-Box processor involves the following procedures:

- [\*Upgrading the CPU\*](#) on the facing page.
- [\*Installing the Fan\*](#) on page 9.
- [\*Routing Cables\*](#) on page 11.

# Upgrading the CPU

Upgrading the processor involves the following procedures:

1. [Removing the HDD](#) below.
2. [Removing the Processor](#) on page 5.
3. [Replacing the Processor](#) on page 8.



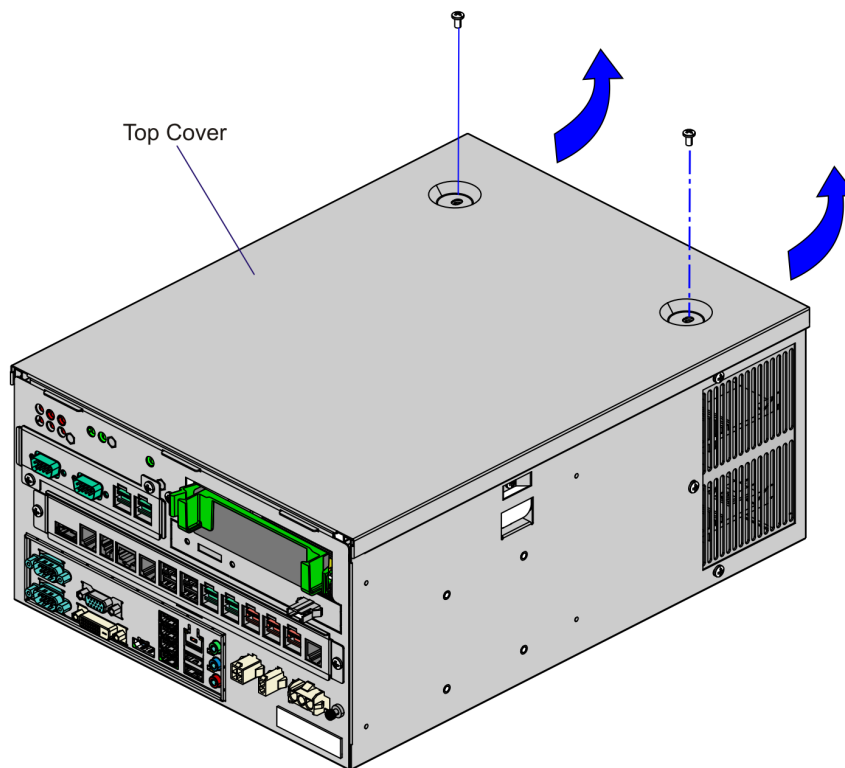
**Warning:** Disconnect the AC power cord before disassembling the E-Box.



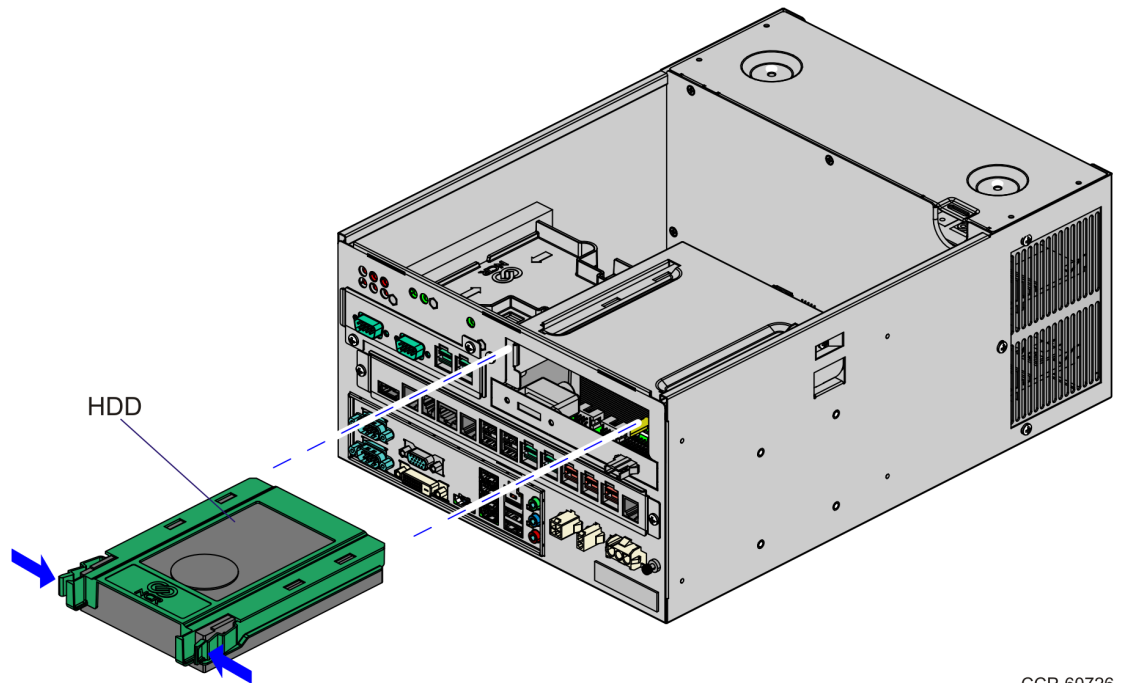
**Caution:** Static Electricity Discharge may permanently damage your system. Discharge any static electricity build up in your body by touching your computer's case for a few seconds. Avoid any contact with internal parts and handle cards only by their external edges.

## Removing the HDD

1. Loosen the screws (2) that secures the Top Cover.
2. Remove the Top Cover.

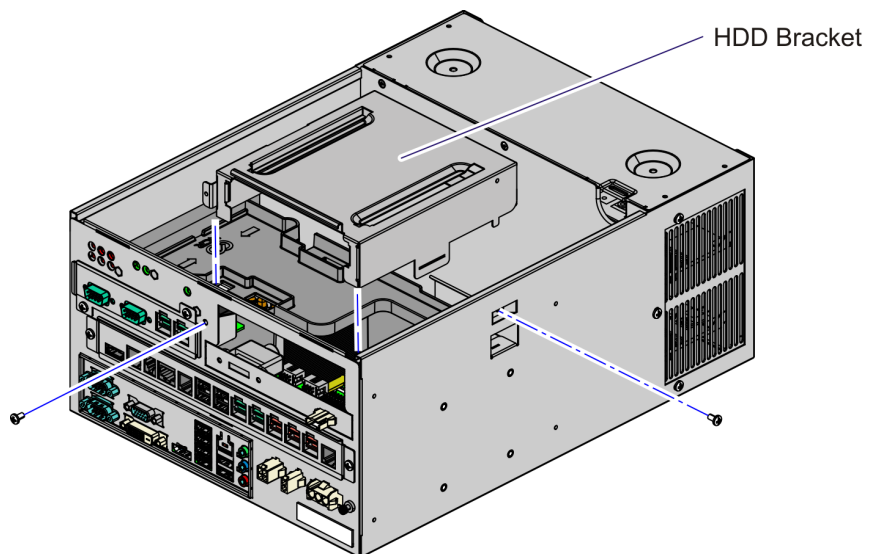


3. Squeeze the Release Tabs on the Hard Drive (HDD) Bracket and slide the assembly out of the slot.



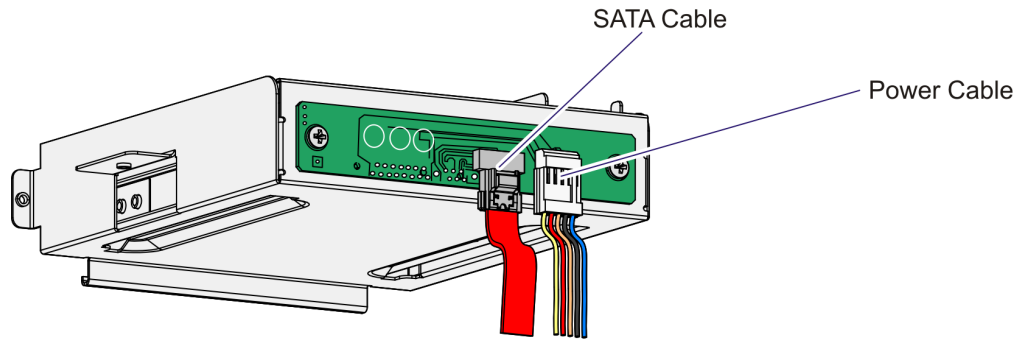
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4. Remove the screws (2) that secure the HDD Bracket.
5. Remove the HDD Bracket from the E-Box.



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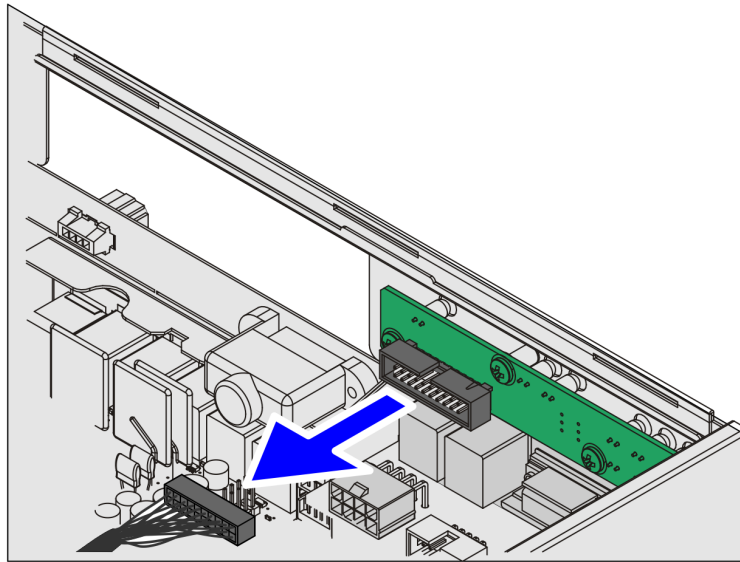
6. Disconnect the SATA Data and Power Cables from the PCB that is located on the rear of the HDD Bracket.



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## Removing the Processor

1. Disconnect the Box Header Connector Cable (black) from the LED and Power PCB Assembly.

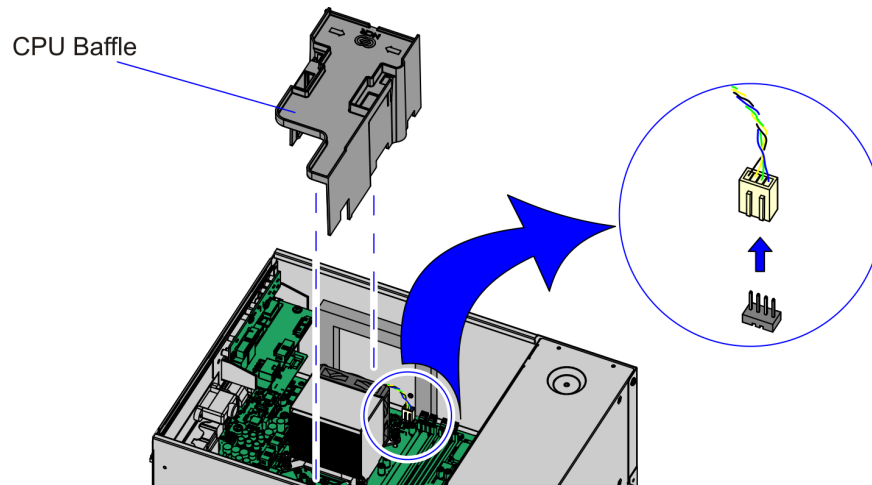


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2. Remove the CPU Baffle from the motherboard.



3. Disconnect CPU Fan Header Connector from the motherboard.

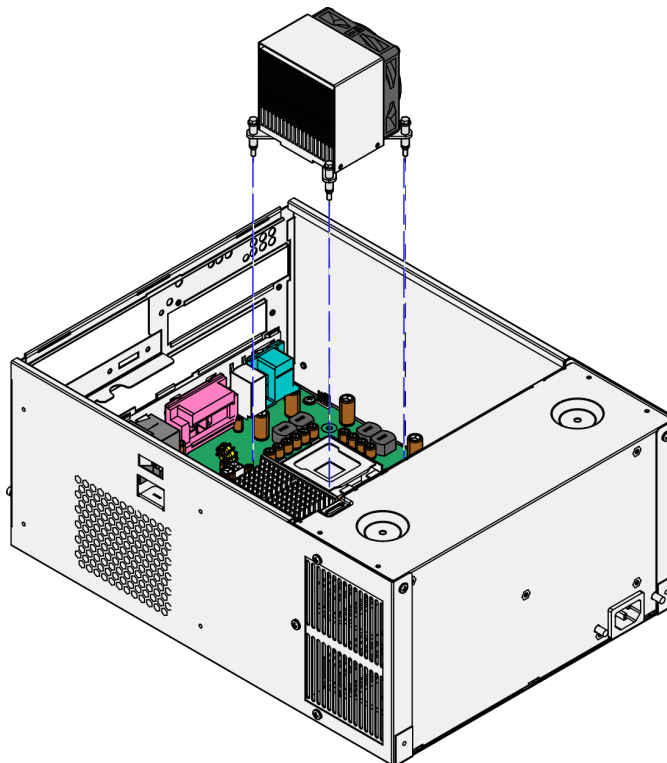


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4. Loosen the spring-loaded screws (4) that secure the Heatsink with Fan Assembly to the Motherboard Assembly.

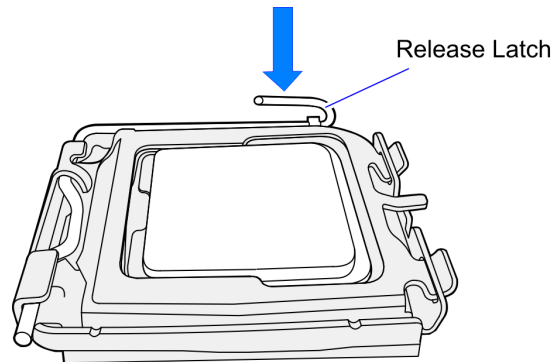


**Note:** Use a sequential rotating pattern when loosening the spring-loaded screws. Loosen each screw a little at a time to evenly raise the Heatsink from the CPU.



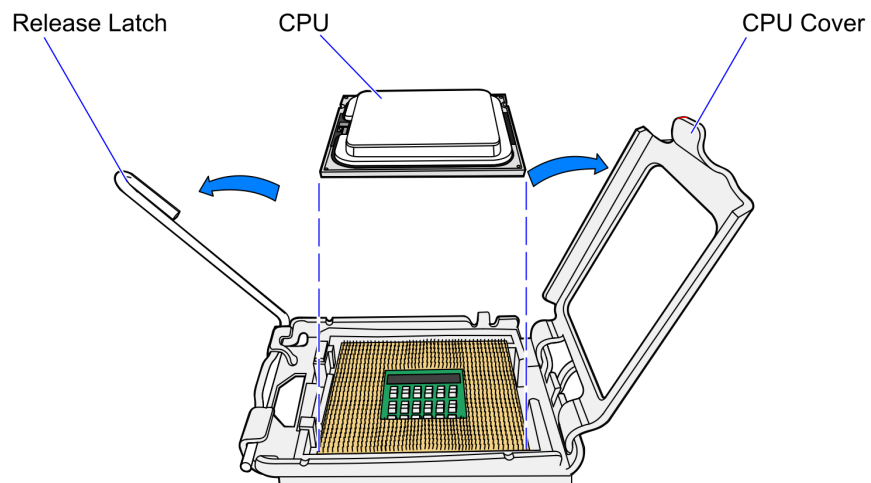
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5. Remove the CPU from the Motherboard by doing the following:
  - a. Press down on the Release Latch to release CPU cover.



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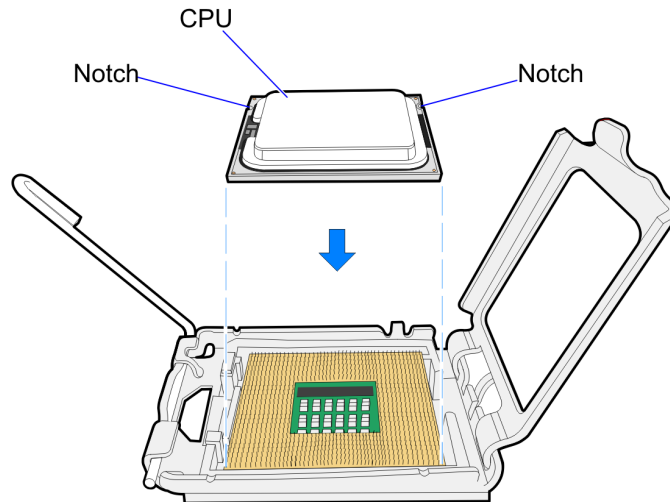
- b. Open the CPU Cover.
  - c. Gently remove the CPU from the socket.



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## Replacing the Processor


1. Correctly position the new CPU over the CPU Socket by aligning the two notches on the CPU with the tabs in the socket. (Pin 1 of the CPU must align with Pin 1 on the socket.)



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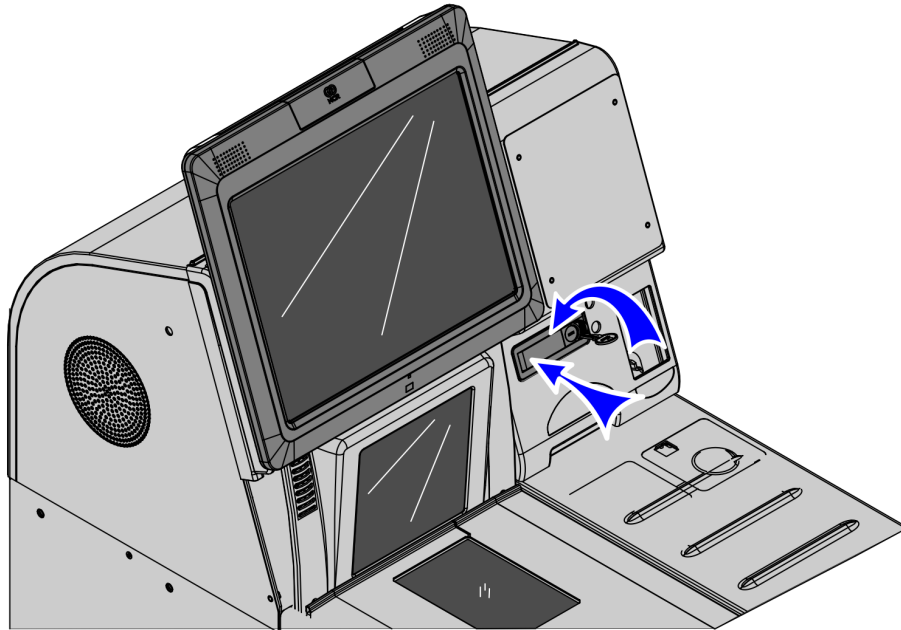
**Note:** Do not insert the CPU at an angle. Do not force the CPU into the socket, place it on its own weight.

2. Apply Thermal Grease on the CPU surface.
  3. Gently close the clover.
  4. Lock the CPU in the socket with the Latch.
  5. Install the Heatsink.
-  **Note:** Use the same sequential pattern when tightening the spring-loaded screws.
6. Insert the CPU Baffle.
  7. Connect the Box Header Connector Cable to the LED and Power PCB Assembly.
  8. Connect the SATA Data and Power Cables to the connectors located at the rear of the HDD Bracket.
  9. Install the HDD Bracket to the E-Box using the screws (2).
  10. Slide the HDD Assembly into the HDD Bracket. Make sure that it is snapped to the slot.
  11. Install the cover and secure it with screws (2).

# Installing the Fan

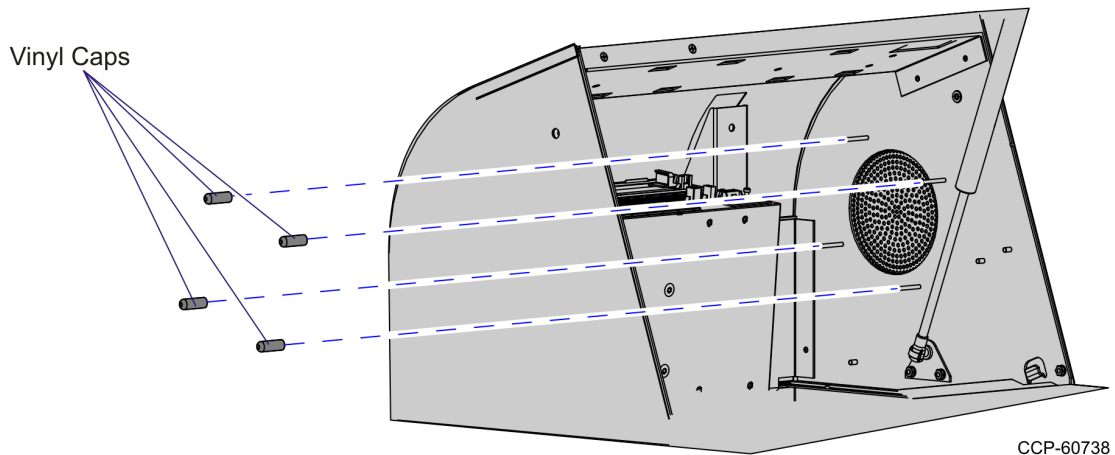
To install the fan to the Core Hood Cover, do the following:

1. Open the Core Hood Cover by twisting the lock counterclockwise and pressing the Door Latch. The cover automatically rises.



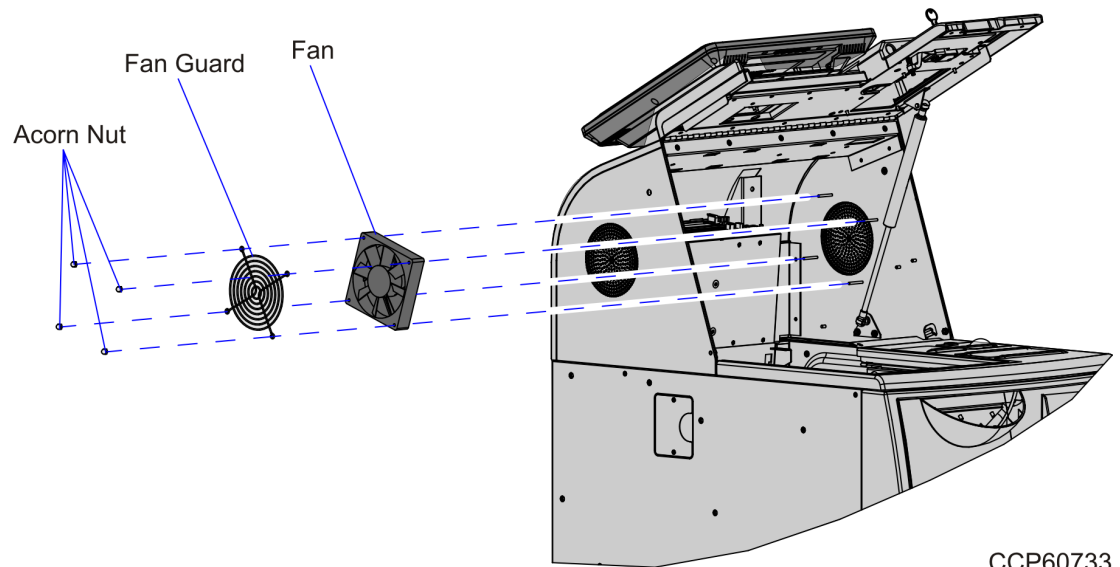
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2. Remove the Vinyl Caps (4) from the pem stud of Core Hood Assembly.



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3. Install the Fan and Fan Guard. Ensure that the direction of arrow on the Fan points outside.

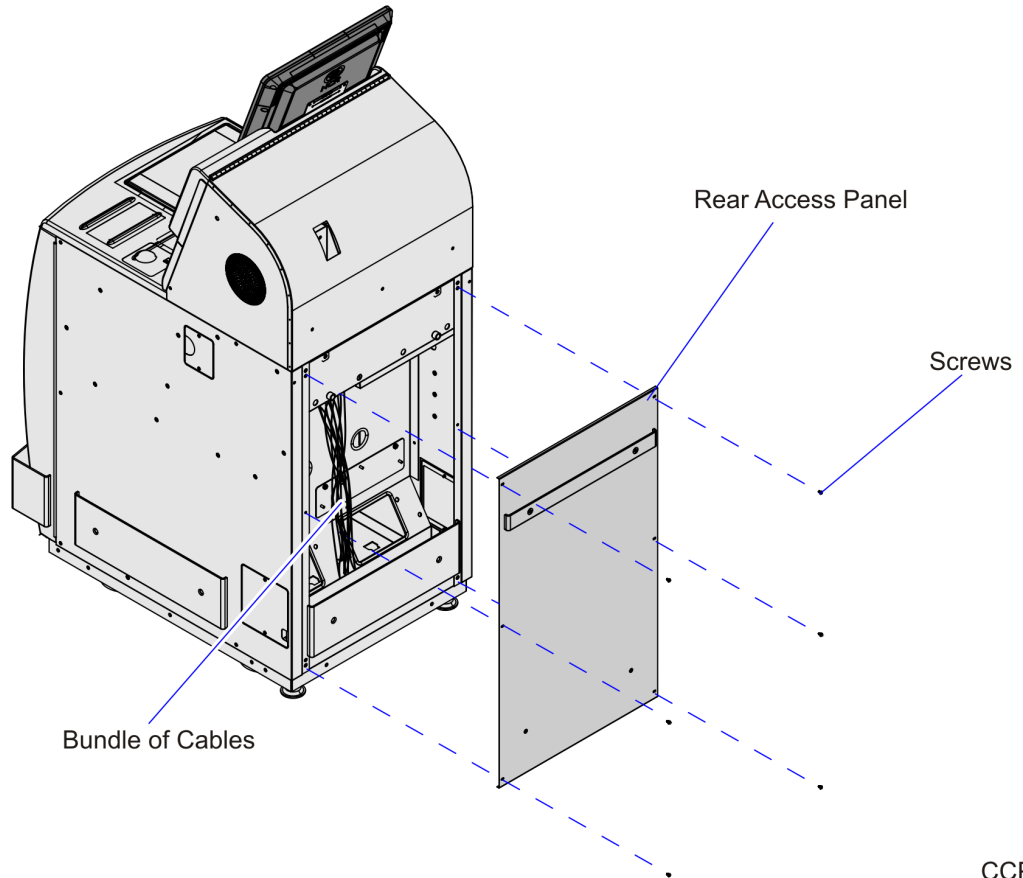


4. Secure the Fan Assembly using Acorn Nuts (4).
5. Connect the Fan Cable to the Input Belt DC Power Cable. Make sure that it latches to the connector.
6. Route the cables. For more information, refer to about Routing Cables on the next procedure.

# Routing Cables

The excess cable length must be routed and bundled properly. To route cables, follow these steps:

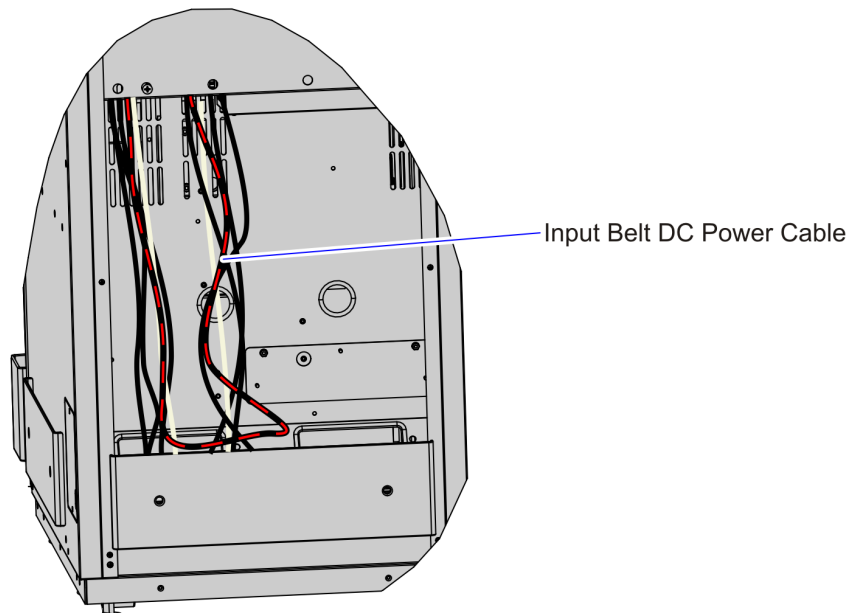
1. Remove the screws (6) of the Rear Access Panel.



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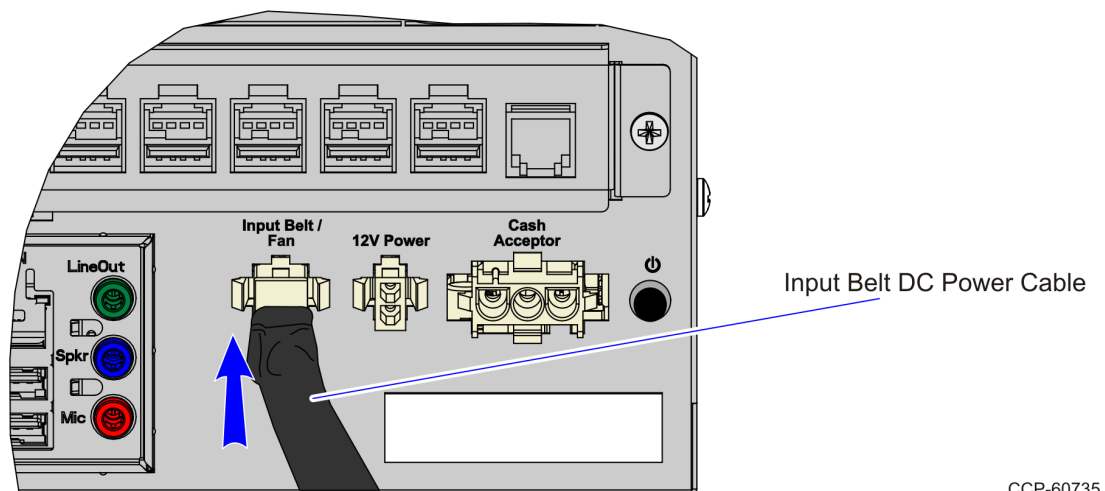
2. Locate the existing bundle of cables.
3. Cut the cable ties that bind the cables.

4. Route the Input Belt DC Power as shown in the following illustration.



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5. Group the Input Belt DC Power cable to the existing bundle and secure with cable ties.
6. Secure the Rear Access Panel back to the Core with screws (6).
7. Connect the other end of the Power Cable to the Input Belt/Fan connector of E-Box.



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