Core Caseworks

Innovation

Entertainment

Core-FX Installation Guide

Style

Congratulations on your recent purchase of the Core-FX computer case! The Core-FX Case is capable of accommodating:

- (1) Micro-ATX Motherboard
- (1) ATX or EPS Power Supply
- (2) 3.5in Hard Drives
- (1) Slim Optical Drive, with or without adapter bracket
- (2) 80mm Fans

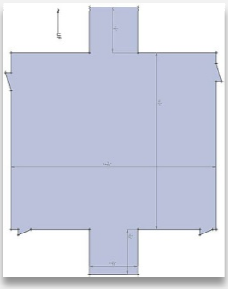
The Core-FX computer case is intended to be used with the above components. The installation of any components, outside the specification of this document, is not supported by Core Caseworks LLC and will void the warranty. The Core-FX computer case is intended to be installed inside a surface. Before beginning installation, be sure to consult the proper building and fire code standards regarding the planned install surface. Depending on the surface, additional steps not included in this installation guide may be required to meet local building and fire codes. Do not exceed any specifications of the surface material. The Core FX Case weighs 7.9 lbs. This Owner's Manual can be found online at www.corecaseworks.com.

Suggested Tools:

- Drywall Scoring Knife
- Magnetic tipped Phillips Screw Driver
- Keyhole saw
- Stud Finder
- Wire Fishing Tools

Note:
These instructions assume that the necessary cables have already been run

The Core-FX case includes the following components:

(1) Main Case 	(1) Micro-ATX Motherboard Tray 	(1) Cover Assembly w/Optical Drive Mount 
(1) Power Supply Bracket 	(1) Installation Manual & Template 	(1) Installation Hardware Package 
(2) 3.5in Hard Drive Enclosures 	(1) Housing Ring 	

Installation Instructions:

The first step when installing the Core-FX case is to find the proper location. The Core-FX case is to be installed in a location where it is aesthetically pleasing, and easily accessible. In this area, find a location between two wall studs to install the Case. The best means of doing this is utilizing a stud finder that can be purchased at your local hardware store. Many stud finders today can differentiate between a wood stud and a metal conduit run, or even high voltage cabling. This case may take the full width between the studs and avoiding locations with wiring or plumbing is strongly recommended. The Core-FX Case will leave ½" between the back of the case and the inside of the far wall, if 2x4 studs are used. This space is intended for wires to pass by without the threat of being pinched. Be very cautious when selecting a location to cut into a wall or any surface.

When the desired location has been found between two wall studs, mark the studs inside edges, and measure the distance between the marks to make sure there is at least 14 inches.

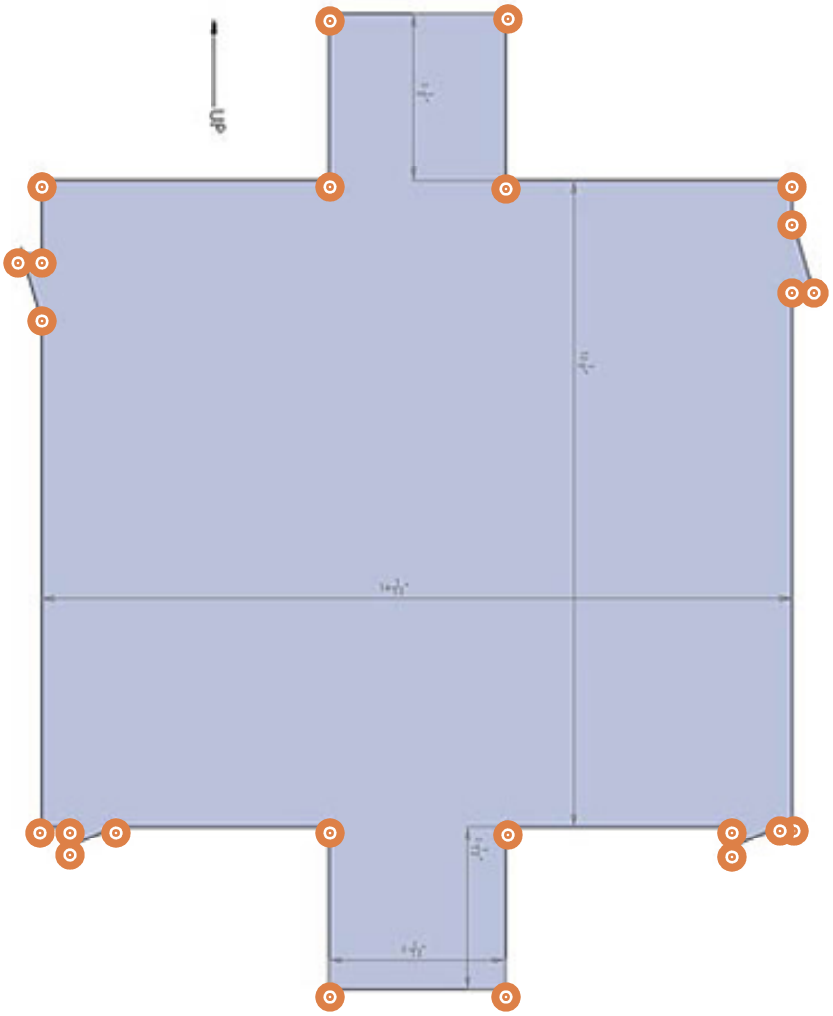
Once you have determined that the distance between the studs is adequate, find the exact vertical center point between the studs, and draw a straight line vertically to mark it. Using a light grade painters tape, attach the template to the wall, centering the template over the center line.

Note:

The standard installation distance between wall studs is 16" on center, meaning they are installed 16" apart from center of stud to center of the next stud. Studs are 1.5" thick; meaning the space in-between the studs is 14.5". The Core-FX Case requires at least 14" width between studs to fit properly.

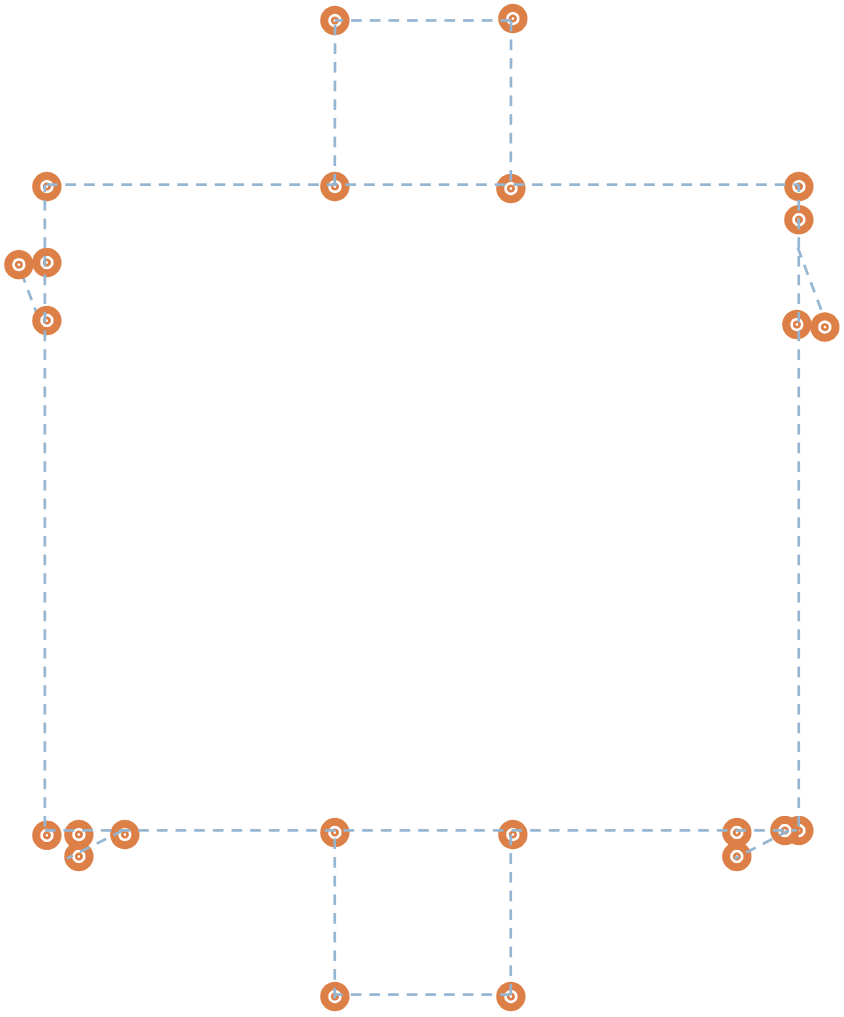
Cutting the Hole, Step 1

Drill small holes at each point indicated below. The template has these points marked.



Cutting the Hole, Step 2

Remove the template. Using a straight edge; draw lines in-between the holes to re-create the template on the surface.



Cutting the Hole, Step 3

Use a utility knife to score the drywall and paint.

Note:
Be very careful to follow the template and do not go outside the lines near the corners as the cut may then become visible after the Core-FX case is assembled.

Tips:

1. Use the holes drilled as starting points to make sure the cuts are centered.

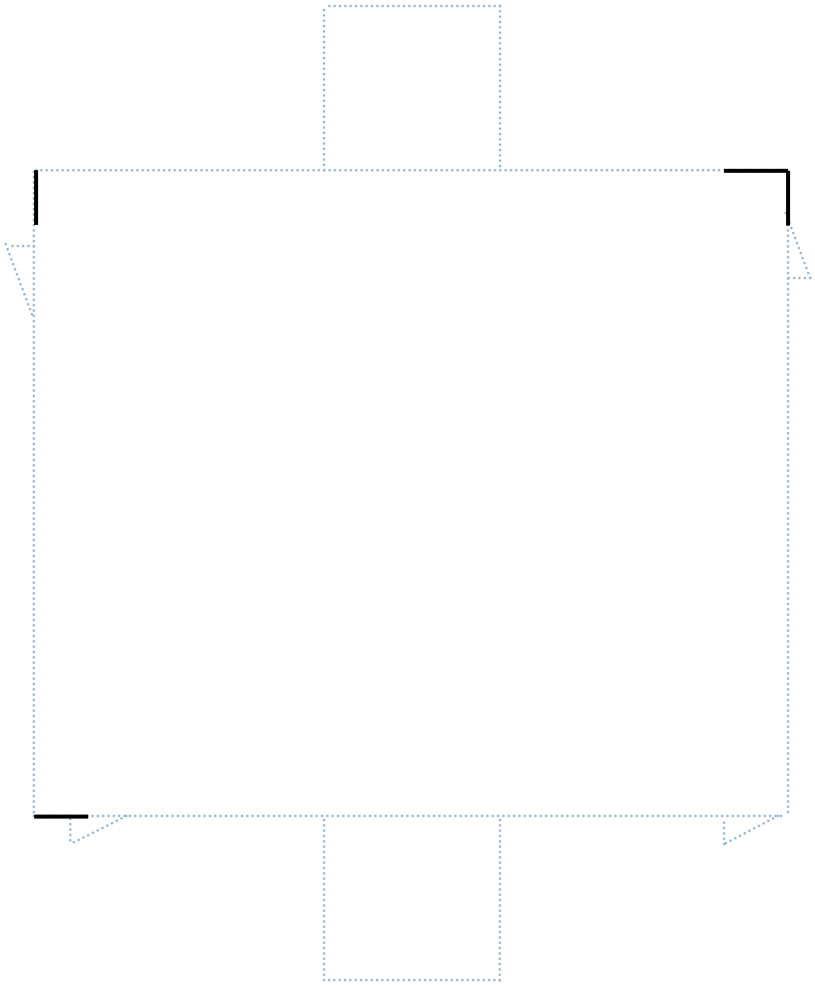
2. Never pull the blade all the way to the end of a line. Always stop cutting part way through the line, and start again from the other side. If a cut is pulled all the way through a line, there is a good chance the cut further go than desired.

3. When making short cuts, start on the outside edge and cut inward.

4. In the upper corners, use the utility knife to go all the way through the wall material. This will allow the keyhole saw to get started.

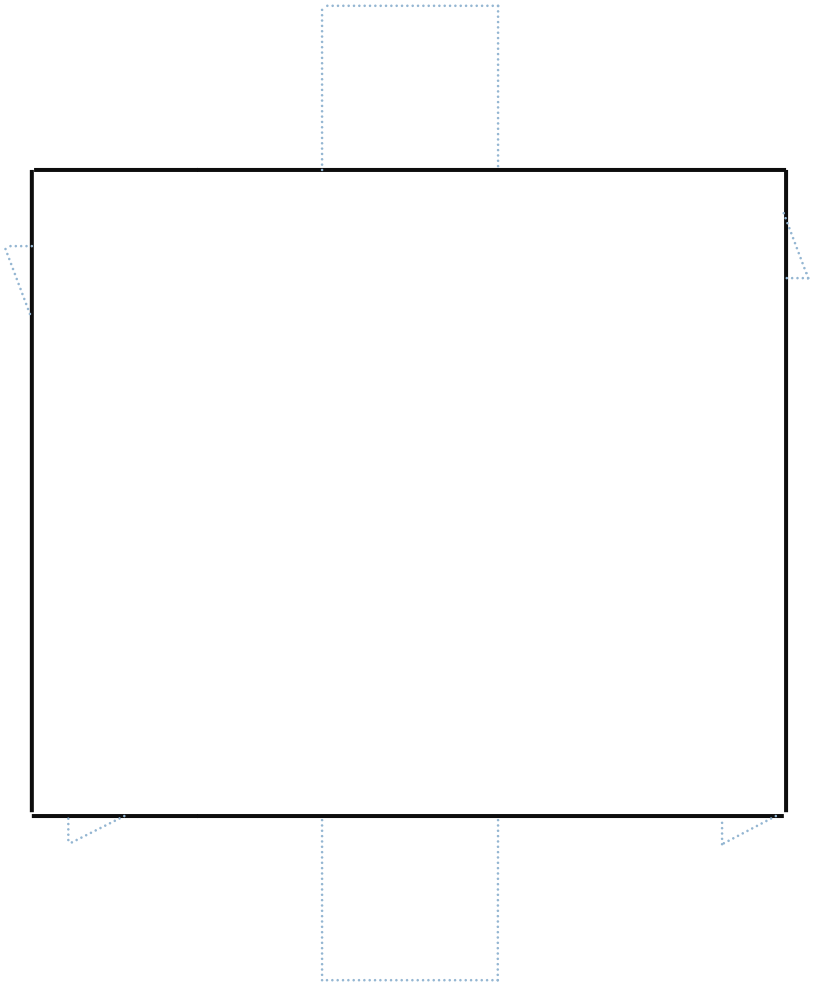
Cutting the Hole, Step 3 (continued)

The dotted lines show the area that is just scored through paint. The solid lines show where to cut all the way through as starting points for the keyhole saw.



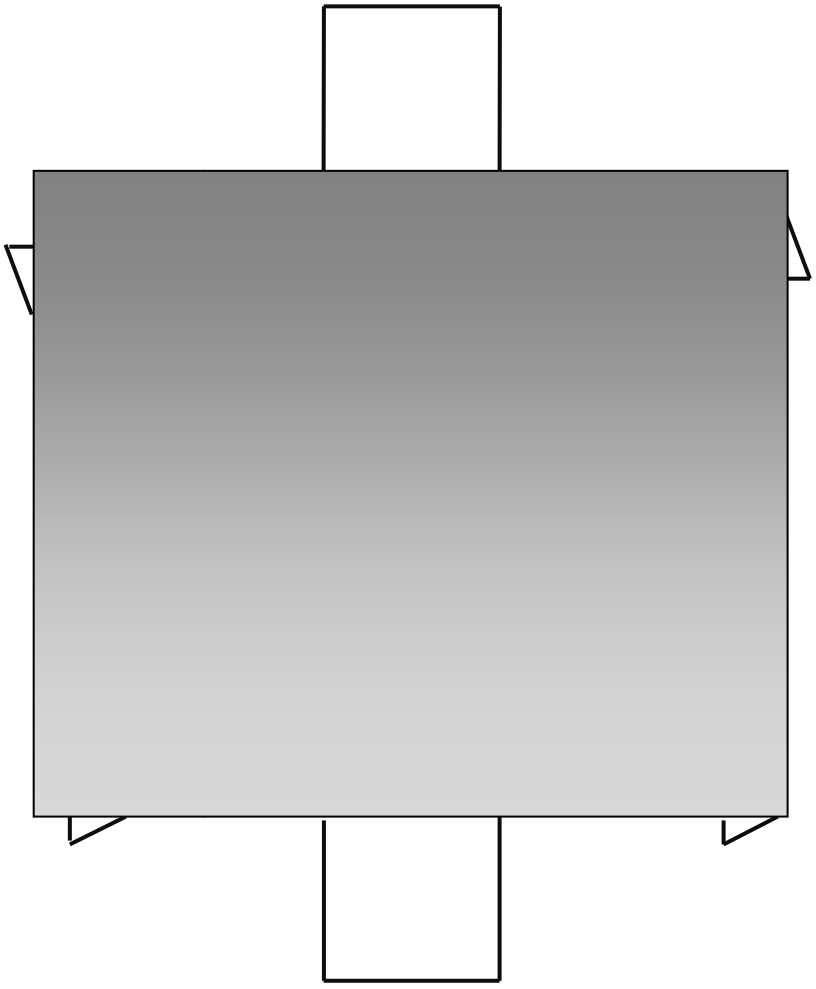
Cutting the Hole, Step 4

Cover the score lines with painters tape to prevent ripping. Using a keyhole saw, begin cutting where the cuts went all the way through. Be careful when sawing to the end of a cut not to cut too far, or the cut may be visible after the Core-FX case is installed.



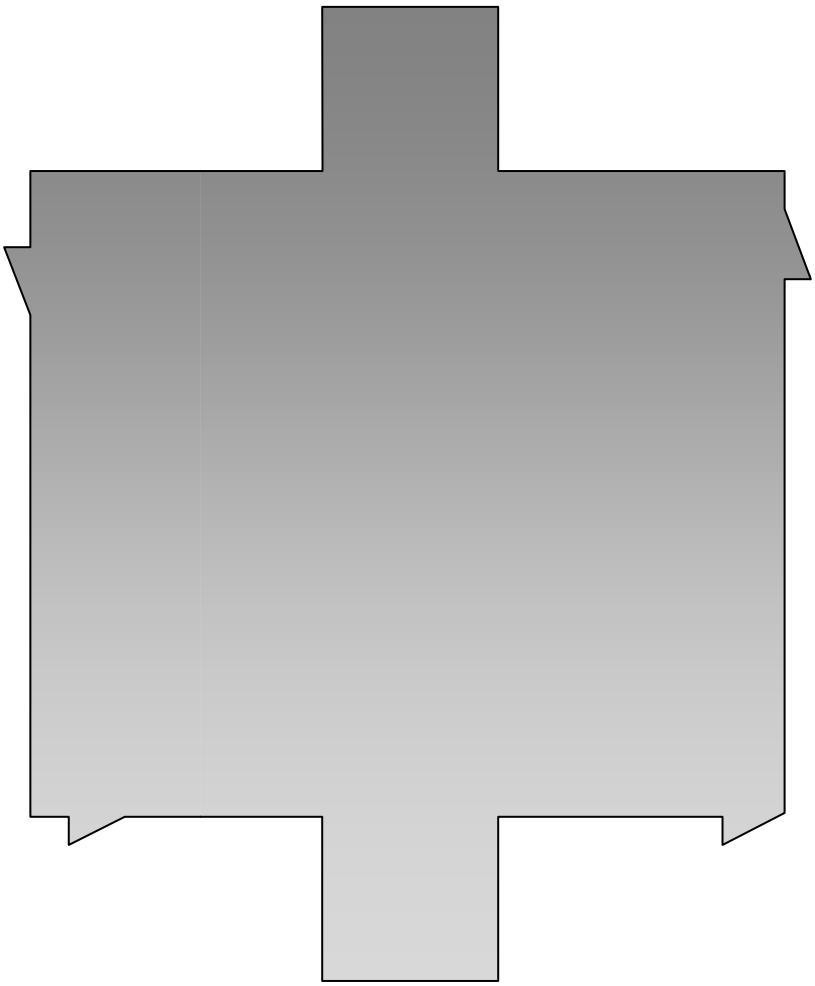
Cutting the Hole, Step 5

Remove the piece of wall that has been cut out, and proceed to cut out the remaining parts. Work with caution when cutting to not go outside the lines as they may become visible after the Core-FX case is installed.



Cutting the Hole, Step 6

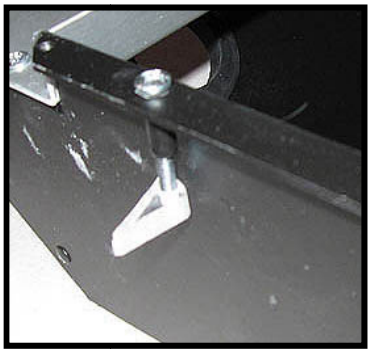
Remove all cutout wall pieces. At this point, make sure your cables are visible so that they can easily be pulled into the case before, or while the case is being installed.



Installing the Main Case

The main case slides in horizontally, then pivots into place. Make sure the drywall grips are in the down position to fit through the cutout, (see pictures below). The grips rotate and pull the Main Case tight with the surface.

If the Main Case does not fit in the hole, identify where the Main Case is hitting the wall by observing where drywall dust or other material has collected on the bottom side of the Main Case. Use the drywall scoring knife to shave away thin strips of the bottom side of the cutout until the case fits. Proceed to tighten the screws to secure the Main Case against the surface. (Main case is colored black in some pictures to better identify parts.)



Wiring Voltage

In order for the Core-FX Case to meet local electrical and building code, Core Caseworks has supplied the Core-FX Case with a single gang electrical box that can accommodate a single receptacle. This receptacle is intended to be used for the Power Supply installed inside the Core-FX case only.

The picture below shows the Main Case with the top cover removed to reveal the single gang receptacle.

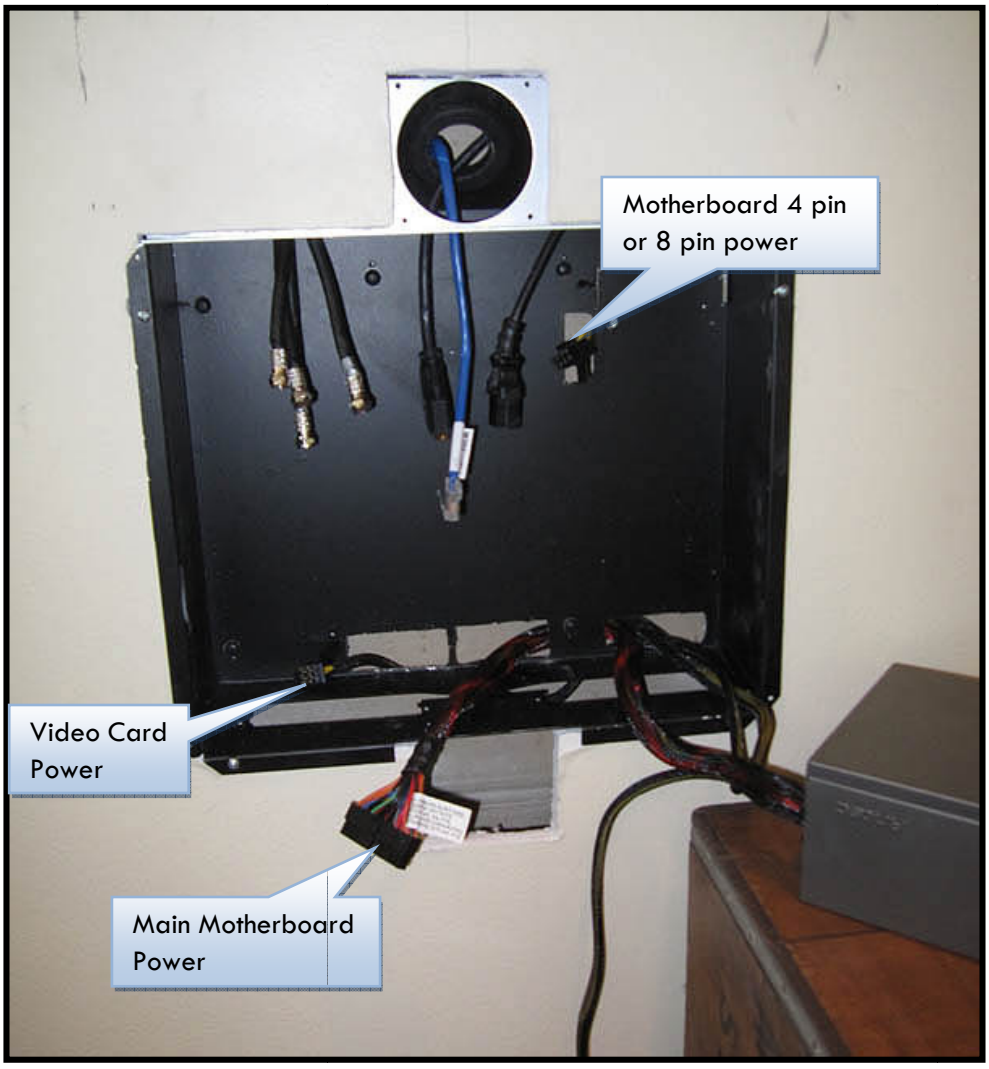
Installing the Power Supply

When installing components, it is easiest to first run the power wires through the openings in the Main Case, then install the Hard Drives, intake fan, and Motherboard. Finally, mount the Power Supply into place. The Power Supply takes up valuable room that is useful when running cables.

The power supply mounts onto the Power Supply Bracket using four pan head screws. The bracket clips into place at the upper right portion of the Main Case. Before installing the Power Supply, it is suggested to run the power wires through the supplied holes in the bottom of the Main Case to their proper location. Core Caseworks suggests using a modular power supply.

Installing the Power Supply (continued)

The Core-FX Case has a 3 ½" depth. Take this depth into account when planning out the cable runs. The Core-FX case is a more permanent solution; and running wires after installation can be complicated. Do not mount the power supply into the Main Case yet. The power supply blocks the right side hard drive opening. As shown below, have the power supply off to the side and proceed to install the hard drives.



Installing the Hard Drives

Slide the hard drive(s) inside the Hard Drive Enclosures. Secure the hard drives with pan head screws. First, secure the hard drives to the outside, (opposite side from the scoop). Then secure the side with the scoop. This will pull the hard drive away from the scoop, allowing better airflow.

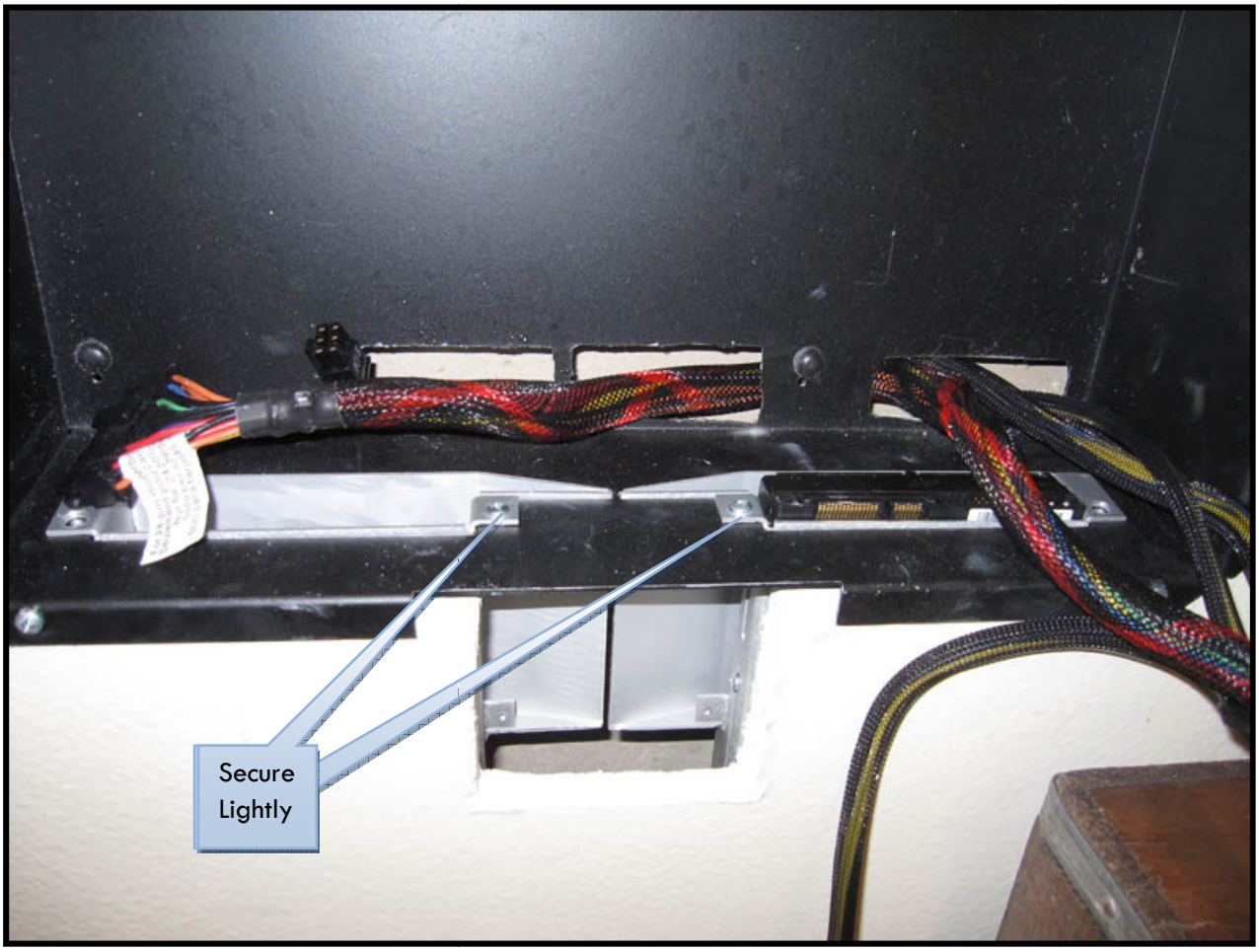
There are two Hard Drive Enclosures, one to slide into the right side of the Main Case, the other on the left side. When they are installed, the "scoops" meet in the center and accommodate one 80mm fan. This fan will act as the cases air intake.

Installing the Hard Drives (continued)

Slide the hard drive enclosures into the bottom openings of the Main Case. Secure the two inside screws loosely, but do not secure the outside screws yet. The inside screws will be tightened and the outside screws connected after the fan is installed.

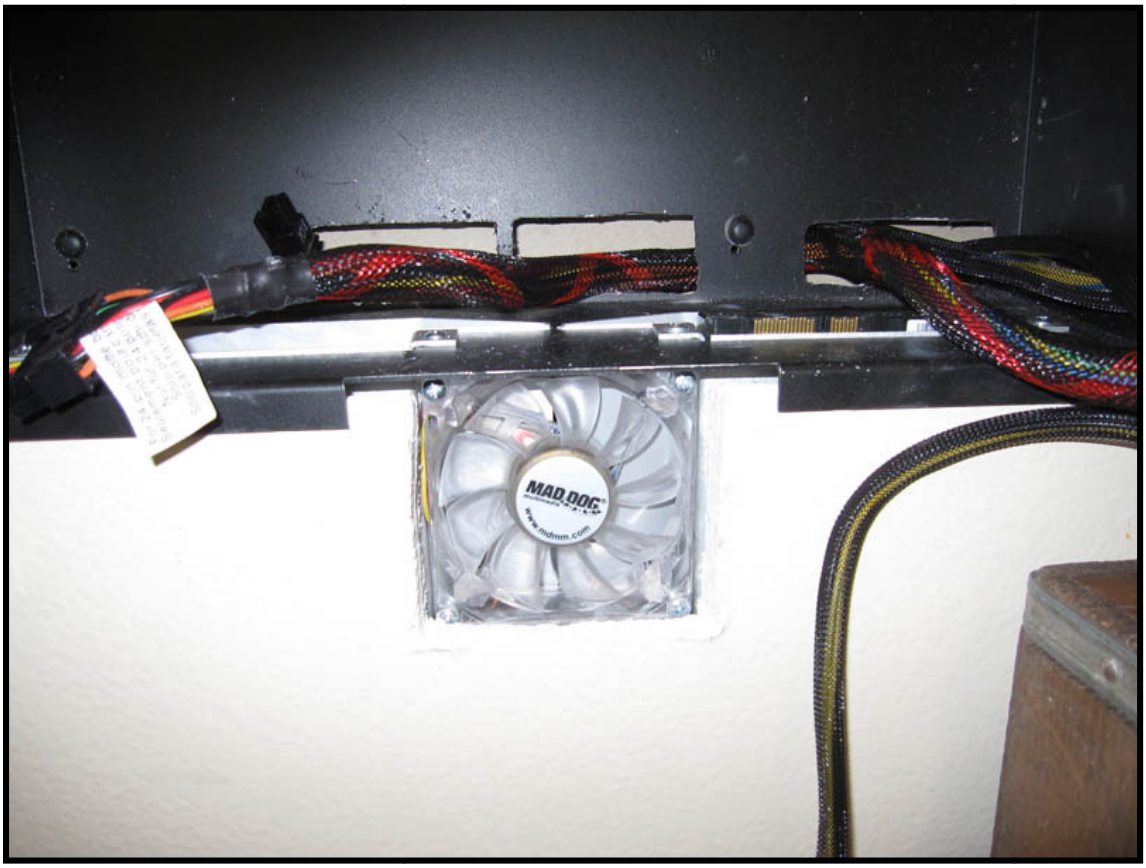
Note:

This installation only has one Hard Drive installed. For single hard drive usage, it is recommended to install the hard drive in the right side to allow the greater airflow to occur on the side with expansion cards



Installing the Hard Drives (continued)

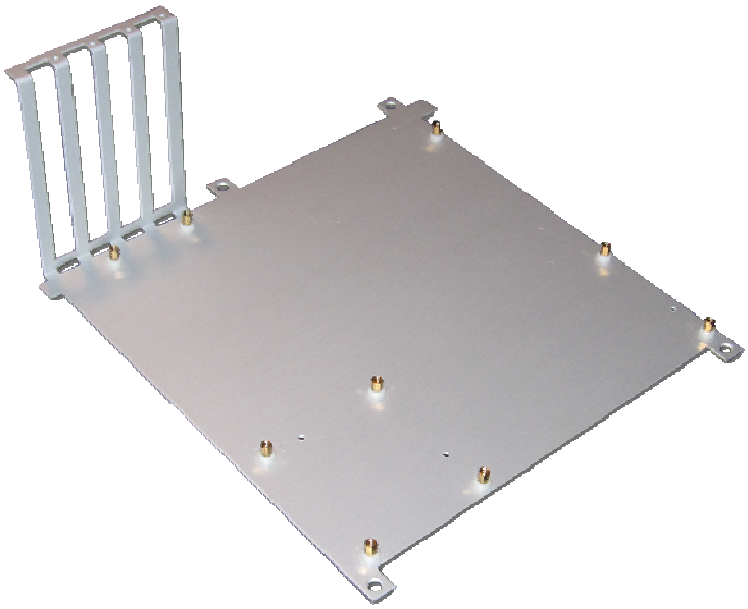
Run the fan power connector either through a Hard Drive Enclosure, our around the outside of the Main Case. Do this first to make sure the fan does not drop behind the wall. Install the intake fan using the 1 ¼" Pan Head Screws. Make sure the fan is installed so the blades will push air into the Hard Drive Enclosures.

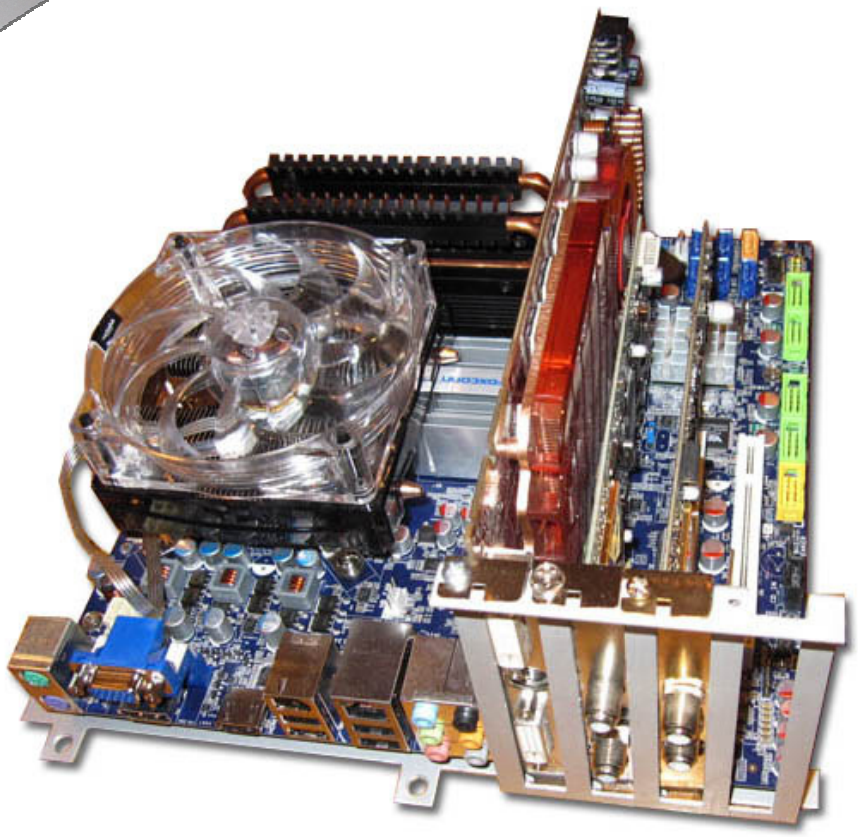


Once the fan installation is complete, install and secure all Hard Drive Enclosure screws.

Installing the Motherboard

If he CPU heat sink requires a plate on the backside of the motherboard, install your processor and heat sink onto the motherboard first. Install the motherboard onto the Motherboard Tray. Relocation of risers may be required depending on the motherboard size.





Installing the motherboard into the case can be an easy task if planning is performed ahead of time. Make sure to have enough slack in the cables to allow them to connect to the motherboard while it is not installed in the Main Case. Connecting cables onto the motherboard after the motherboard is installed can be done, however space is limited.

The tabs sticking out of the Main Case are intended to align the motherboard before securing with the supplied countersunk screws. The picture below shows the case with no components installed to show the tabs clearly.

Installing the Motherboard (continued)

While pushing the motherboard into place, the cables slack will need to be pushed back into the wall through the provided grommets. Larger DVI cables will fit tightly against the top of the case.

Once the motherboard is hanging from the tabs, use the countersunk screws to secure the Motherboard Tray into place.

Installing Ring Enclosure and Exhaust Fan

When the motherboard is secured and all of the wires are in place, the hole at the top can be covered with the exhaust fan. Use the 1 ¼" pan head screws to secure the fan into place.

The Ring Housing piece connects to the Main Case using four holes in the corners of the Main Case. The Ring Housing is not shipped as a perfect circle and will take shape while securing it to the Main Case. Be sure to push while securing these screws to make sure they penetrate the surface. Take care to avoid stripping the threads in the Main Case.

Installing the Ring Housing (Continued)

When the Ring Housing is installed, the front panel connections can be made. Connect the USB and power connections to their respected locations on the motherboard.

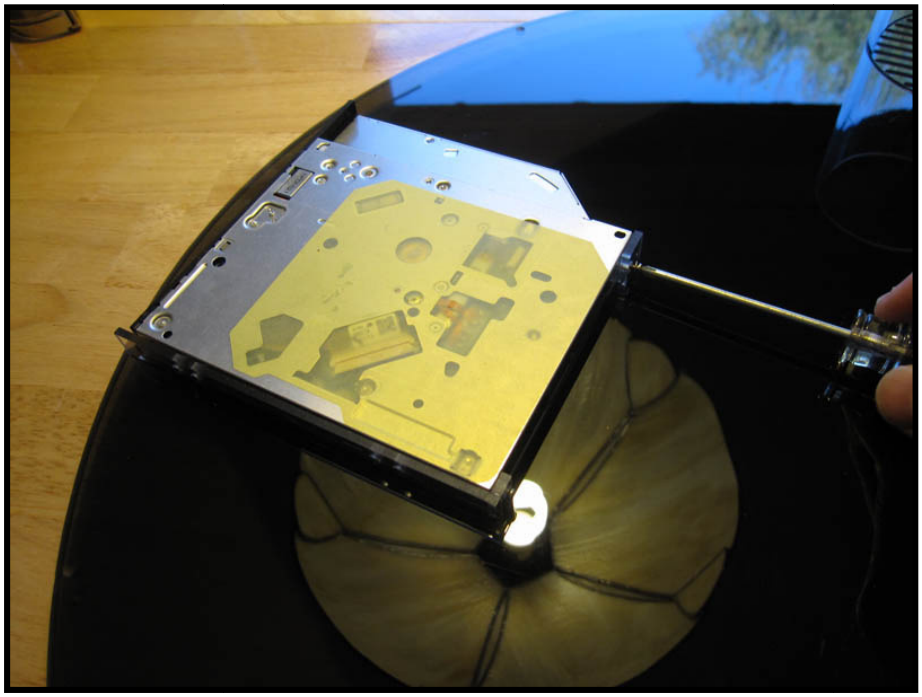
If additional devices are needed, a cable will need to be run from your TV to your computer case. A simple means of running wire short distances is to use a metal chain, and an extension magnet. (The magnet is typically used for retrieving lost screws in hard to reach locations.) Drop the chain in the hole behind the TV, leaving a good amount sticking out of the hole. Use the magnet at the Core-FX case location, sticking it up through one of the access holes in the Main Case. Use the magnet to try and catch the metal chain. Once caught, the chain is now going from inside the Core-FX case to the back of the TV. Tape the cable to the chain either at the TV location or the Core-FX case location and pull the chain out. The cable will follow.

Installing the Optical Drive

The optical drive attaches to the acrylic Cover Assembly. Use 1-72 size screws to attach the optical drive to the Cover Assembly. Small washers may be needed if the Cover Assembly's holes are too large. The 1-72 screws and washers are available at most retail hardware stores and are typically categorized as miniature screws. The Cover Assembly will accommodate most slim drives with a SATA or IDE connection and adapters, (SATA shown here.)

Note:

The optical drive will be visible after being installed.



Installing the Cover Assembly

The Cover Assembly with optical drive is to be attached to the motherboard's power and data. The Cover Assembly fits very tightly in place. Start by getting the Cover Assembly into place on the right side of the Ring Housing. Watch to make sure the holes are lining up. Then press it into place along the bottom to the left side. It is possible to stretch the opening where the optical drive ejects to get the Cover Assembly to fit there, and from there it will slide into place.

Be sure that the holes line up properly before finalizing the Assemblies position. It is difficult to twist it into place once installed. Secure the Cover Assembly with the pan head polycarbonate screws.

Note:

Picture shows components installed that are not included with the Core-FX Case.

Core-FX Warranty

Core Caseworks LLC Quality 1 Year Limited Warranty

Core Caseworks LLC warrants its new products to be free from defects resulting from faulty manufacture under the following terms and conditions:

I. Warranty Length

For all new Core Caseworks products, parts arewarranted for one (1) year from the date of purchase, unless noted otherwise. Replacement products will be warranted for the remainder of the warranty period or thirty days, whichever is longer. Products sold as "B" stock, or refurbished stock; have their own limited warranty noted with the product.

II. Who Is Protected

This warranty is enforceable only by the original consumer purchaser. Proof of purchase is required for warranty service.

III. Coverage

This warranty is not an unconditional guarantee for the length of the 1-year length of the warranty. Core Caseworks products are made under exacting manufacturing standards. They are not indestructible. Our warranty does not cover product damage that may result from abuse or mishandling of the products, nor does it cover incidental or consequential damage.

The following are not covered by the warranty:

1. Any product which has been modified without permission from Core Caseworks, or on which the serial number has been defaced, modified or removed.

2. Normal wear and tear.

3. Damage, deterioration or malfunction resulting from:

- Accident, abuse, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification or failure to follow instructions included with the product.
- Repair or attempted repair by anyone not authorized by Core Caseworks, Inc.
- Shipping or transport damage (claims must be made with the carrier).
- Any other cause which does not relate to a manufacturing defect.

4. Cartons, cases, batteries, cabinets, tapes, accessories or other consumables used with this product.

5. Core Caseworks LLC does not warrant that this product will meet your requirements. It is your responsibility to determine the suitability of this product for your purpose.

6. Installation or Removal charges.

7. Shipping charges.

8. Any incidental charges.

IV. Exclusion of Damages.

Core Caseworks' sole obligation and liability under this warranty is limited to the repair or replacement of a defective product at our discretion. Core Caseworks shall not, in any event, be liable for any incidental or consequential damage, including but not limited to damages resulting from interruption of service and loss of business, or for liability in tort relating to this product or resulting from its use or possession.

Core Caseworks products have been tested in normal home conditions. They have not been certified to any specific standard.

V. Limitations of Implied Warranties

There are no other warranties, expressed or implied, including but not limited to those of merchantability or fitness for a particular purpose. The duration of implied warranties is limited to the warranty length specified in Paragraph I.

VI. Local Law and Your Warranty

This warranty gives you specific legal rights. You may also have other rights granted under local law. These rights may vary.

VII. To Obtain Customer Support.

Please see your product owner's manual or visit the Online Support section at www.corecaseworks.com for details and contact information.

VIII. To Obtain Warranty Service.

In the event that warranty repair or replacement is required, Core Caseworks will request proof of purchase (store receipt or invoice) in order to receive warranty service.

Within the first 60 days after purchase, please return your product to your dealer or reseller for a replacement. If the product is still within warranty and can no longer be returned to the dealer, please contact Core Caseworks Customer Support for assistance and instructions. Core Caseworks will not accept returns without prior approval and an RMA (Return Merchandise Authorization) number.

When contacting Core Caseworks, be sure to be as detailed as possible with the fault you are experiencing. Core Caseworks will fax/email you an RMA that must be returned with the product for proper warranty process. Core Caseworks LLC is not responsible for product that is returned without an RMA. Be sure to package the product securely (preferably in its original packaging) and ship it postpaid. The dealer or Core Caseworks will not be responsible for damage due to shipping. During the warranty period, the product will be repaired or replaced without charge, excluding shipping and handling.