



## Three Hundred Two

## User Manual

### Three Hundred Two User Manual

Congratulations on your purchase of the Three Hundred Two!

The team that brought you the Three Hundred is back with an enclosure designed to handle tomorrow's high-performance systems. Introducing the Three Hundred Two, the next standard in affordable gaming cases. Our newest chassis is built specifically for gamers, from its attractive, yet functional front bezel, to its advanced cooling system. With tool-less 5.25" & 3.5" drive bays, a large cable management compartment and two front panel USB 3.0 ports with an internal connector, the Three Hundred Two is the new heir to the Gaming Series legacy.

The Three Hundred Two does not include a power supply. Make sure you choose a power supply that is compatible with your computer components and has a long enough power harness to reach your motherboard and peripheral devices. We recommend our High Current Gamer or Earthwatts power supplies for the latest ATX specification compliance, broad compatibility, and power savings capability.

At Antec, we continually refine and improve our products to ensure the highest quality. As such, your new chassis may differ slightly from the description in this manual due to improvements applied for the optimal building experience. As of the date of publication, all features, descriptions, and illustrations in this manual are correct.

#### Disclaimer

This manual is intended only as a guide for Antec's computer enclosures. For more comprehensive instructions on installing the motherboard and peripherals, please refer to the manuals that come with those components.

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## Section 1 Introduction

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1.1



- 1. 3 x 5.25" drive bays
- 2. 2 x 2.5" drive bays
- 3. 6 x 3.5" drive bays
- 4. 1 x 120 mm rear TwoCool fan (standard)
- 5. 1 x 140 mm top TwoCool fan (standard)
- 6. 2 x 120 mm front intake fans (optional)
- 7. 1 x 120 mm side intake fan (optional)
- 8. 1 x 120 mm side exhaust fan behind motherboard (optional)
- 9. 8 expansion slots
- 10. CPU cutout
- 11. Motherboard mount: Standard ATX, microATX or Mini-ITX
- 12. Power supply mount
- 13. Front ports: 2 x USB 3.0, Audio In/Out

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## 1.2 Chassis Specifications

Chassis Type	Mid Tower
Chassis Color	Black
Dimensions	513 mm (H) x 229 mm (W) x 471 mm (D)
	20.2" (H) x 9" (W) x 18.5" (D)
Weight	15.3 lbs / 6.9 kg
Cooling	- 1 x 140 mm top TwoCool fan (standard)
	- 1 x 120 mm rear TwoCool fan (standard)
	- 2 x 120 mm front intake fans (optional)
	- 1 x 120 mm exhaust fan behind motherboard tray (optional)
	- 1 x 120 mm side panel fan to cool graphics cards (optional)
Drive Bays - 3 x 5.25" tool-less drive bays	
	- 6 x 3.5" tool-less drive bays
	- 2 x 2.5" drive-bays
Expansion Slots	8
Motherboard Size	Standard ATX, microATX, Mini-ITX
Front I/O Panel - 2 x USB 3.0 with internal motherboard connector	
- Audio In/Out	
	- Power and Reset buttons located on top panel of chassis

### 1.3 Included Screws

An inventory of all screws and intended usage and quantity is provided here:

- A. PSU/Motherboard screws (16)
- B. Motherboard standoffs (9:4 preinstalled)
- C. 5.25"/2.5" optional drive screw (8)
- D. Long fan screws (8)
- E. Drive bay rails for 3.5" (6 pairs)
- F. Zip ties (4)



## Section 2 Hardware Installation

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## 2.1 Setting Up

When working in your case, please keep the following in mind:

- Put the case upright on a flat, stable surface so that the rear panel (power supply and expansion slots) is facing you.
- Handle all components and cards with care.
- To avoid electrostatic discharge, ground yourself periodically by touching an unpainted metal surface or by using a wrist grounding strap.
- Before you connect a cable, ensure that both connectors are correctly aligned and oriented.
- Do not sit on your chassis. Although it is constructed of heavy-duty steel and internally reinforced, it is not designed to support the weight of an adult, and may buckle.
- Do not use your fingernails to separate edges or lift the sides of the chassis, as paint chipping or injury may occur.
- Place the panel thumbscrews aside in a safe place.

## 2.2 Removing the Side Panels and Front Bezel

To remove the left and right side panels:

- 1. Remove each of the two thumbscrews first.
- 2. Remove the panel by gripping the tab at the rear of the panel and pull it backward slightly, then swing the panel outward.
- Exercise caution and control when handling chassis interiors. We strongly recommend taking the appropriate time and care when working inside the chassis. Avoid hurried or careless motions.

You need to remove the front bezel in order to access the air filters and conduct maintenance.

To remove the front bezel:

- 1. Remove the left side panel as described above.
- 2. Locate and depress the three tabs on the inside of the front panel.
- 3. Swing the panel outward until it comes away completely.





### 2.3 Motherboard Installation

Before proceeding, check the manual for your CPU cooler to find out if there are steps you must do before installing the motherboard.

Make sure you have the correct I/O panel for your motherboard. If the panel provided with the chassis isn't suitable, please contact your motherboard manufacturer for the correct I/O panel.



Make sure you have the correct I/O panel.

This case comes with 4 preinstalled motherboard standoffs. These are positioned for Standard ATX motherboards but can be relocated to accommodate other form factors.

- 1. Align the motherboard with the standoff holes on the motherboard tray and remember or mark which holes are lined up.
- 2. Install standoffs as needed (B in Section 1.3) and put the motherboard in.
- 3. Screw your motherboard into the standoffs with the provided motherboard mounting screws.

**Note**: If you plan on using the 2.5" drive mount on the rear of the motherboard tray, the drive must be installed before the motherboard. See Section 2.7 for instructions on how to install your 2.5" drives.



### 2.4 Installing KUHLER H<sub>2</sub>O Liquid Coolers

The following instructs how to install the Antec KUHLER  $H_2O$  liquid CPU cooler (620 / 920). For any other CPU coolers, please consult your manufacturer's installation guide.

#### Caution:

Check your motherboard's CPU socket to ensure its compatibility with the KUHLER  $H_2O$ . The KUHLER  $H_2O$  620 / 920 is compatible with the following CPU sockets:

Intel<sup>®</sup> LGA 1155 / 1156 / 1366 / 2011\* AMD<sup>®</sup> AM2 / AM3 / AM2+ / AM3+

\*Your unit may not contain the LGA 2011 mounting bracket. To receive this bracket, please contact Antec customer support (information is listed at end of manual).

\*\*Be sure to install the KUHLER  $H_2O$  with the end of the tubes positioned at the bottom of the radiator.

- 1. Remove the rear fan by unscrewing the fan from the back of the chassis.
- Preparing the KUHLER H<sub>2</sub>O backplate is specific to your CPU socket. Please refer to the KUHLER H<sub>2</sub>O installation guide, available at http://www.antec.com/Believe\_it/product.php?id=Mjc2OCYxNw== (KUHLER H<sub>2</sub>O 620) or http://www.antec.com/Believe\_it/product.php?id=NzAOMzcwJjE3 (KUHLER H<sub>2</sub>O 920) for more information.
- 3. Prepare the retention ring according to the CPU socket you're using.
- 4. Complete installation according to the KUHLER H<sub>2</sub>O instructions.

## 2.5 Power Supply Installation

- 1. With the case upright, place the power supply in the case and align the rear of the unit with the mounting holes.
- 2. Attach the power supply to the case with the screws provided (A in Section 1.3).



Attach the power supply with the provided screws.

## 2.6 External 5.25" Device Installation

The Three Hundred Two can support up to three 5.25" devices.

- 1. Remove the side panels and front bezel as directed in Section 2.2.
- 2. Remove the drive bay cover by pressing in on the four small tabs on either side of the cover, then push cover out the front of the bezel.
- 3. Replace the front bezel on the front of the chassis.
- 4. Slide your 5.25" drive through the front of the chassis until it lines up flush with the front bezel. You will feel the drive lock into position.
- 5. If you need more clearance on the inside of the chassis for your drive, pull the drive bay tab on the inside of the chassis toward you and push the drive in further.



Slide you drive until it locks.



Pull on the tab to adjust drive bay clearance.

## 2.7 Internal 2.5" Device Installation

There are two 2.5" drive mounting locations in the Three Hundred Two: on the back of the motherboard tray and at the bottom of the case.

To install on the back of the motherboard tray:

- 1. Remove the side panels as described in Section 2.2.
- Secure your drive with the 2.5" screws provided (C in Section 1.3). Your drive will attach on the back of the motherboard tray, with screws affixing from the front of the tray.



Note: The motherboard should not be installed when installing your 2.5" device in this location.

To install at the base of the case:

- 1. Remove the left side panel as described in Section 2.2.
- 2. Secure your drive to the base of your case with the 2.5" screws provided (C in Section 1.3).



Align your drive's holes with the drive bay holes.



Secure your drive with the provided 2.5" screws.

#### 2.8 Internal 3.5" Device Installation

The Three Hundred Two includes 6 pairs of 3.5" drive rails. You will need 1 pair per 3.5" drive.

- 1. Line up the drive rail pins to the sides of your 3.5" drive. Ensure that the squeeze-tabs are aligned on the side of your drive that does not have power or data connectors.
- 2. Snap the rail into place.
- 3. Repeat steps 1-2 for the other side of the 3.5" drive.
- 4. Pinch the ends of the drive rails together and slide the drive into the 3.5" bay until it locks into position.



Pinch the ends of the drive rails and then slide your drive into the 3.5" bay until it locks into position.

#### 2.9 Cable Management

There is a cable management compartment between the motherboard and right side panel. You can tuck excess cables in this compartment or route them to the drive bays through one of the four conveniently-placed cable management holes.

Choose the cables you would like to pass through the holes behind the motherboard tray. Pull them through the hole toward the right side of the case. Feed the cables back through the insertion point nearest the destination of the cable.



### 2.10 Expansion Slot Device Installation

When installing graphics cards or other expansion cards, you must first remove the rear place covering the expansion slots.

- 1. With the rear of the case facing you, remove the 2 screws shown to remove the plate.
- 2. Install your expansion cards according to the manufacturer's instructions.
- 3. Repalce the plate and screws.



Remove these screws prior to expansion card installation

# Section 3 Front I/O Ports

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#### 3.1 USB 3.0

The Three Hundred Two comes with two front panel USB 3.0 ports and includes an internal motherboard connector. To access USB 3.0 capability from the front panel:

- 1. Identify the USB 3.0 header on your motherboard.
- 2. Connect the USB 3.0 header to the motherboard port. Be sure to align the connector in the proper orientation so that you do not damage the pins on your motherboard.



Align the connector properly to prevent damage to your motherboard.

## 3.2 AC'97 / HD Audio Ports

There is an Intel<sup>®</sup> standard 10-pin AC'97 connector and an Intel<sup>®</sup> 10-pin HDA (High Definition Audio) connector linked to the front panel of the chassis.

1			2
		•)	
	▣	•)	
9	▣		10

Pin Signal Names (HDA)		Pin	Signal Names (AC'97)
1	MIC2L	1	MIC In
2	AGND	2	GND
3	MIC2R	3	MIC Power
4	AVCC	4	NC
5	FRO-R	5	Line Out(R)
6	MIC2_JD	6	Line Out(R)
7	F_IO_SEN	7	NC
8	Key (no pin)	8	Key (no pin)
9	FRO-L	9	Line Out(L)
10	LINE2_JD	10	Line Out(L)

You can connect either the AC'97 or the HDA connector, depending on your motherboard. Locate the internal audio connectors from your motherboard or sound card and connect the corresponding audio cable. Consult your motherboard or sound card manual for the pin-out positions. Even if your system supports both standards, only use one connector.

#### 3.3 Power Switch / Reset Switch / Hard Disk Drive LED Connectors

Connected to your front panel are LED leads for power and HDD activity, as well as switch leads for the power and reset buttons. Attach these to the corresponding connectors on your motherboard. Consult your motherboard manual for specific pin header locations. For LEDs, colored wires are positive ( + ). White or black wires are negative ( - ). If the LED does not light up when the system is powered on, try reversing the connection. For more information on connecting LEDs to your motherboard, see your motherboard user's manual.



Front panel leads

**Note**: Polarity (positive and negative) does not matter for switches.

#### 3.4 Rewiring Motherboard Header Connections

There may come a time when you need to reconfigure the pin-out of a motherboard header connector. Examples could be for your USB header, audio input header, or some other front panel connector such as the Power Button connector.

Before performing any work, please refer to your motherboard user's manual or your motherboard manufacturer's website to confirm the pin-out needed for your connector. We strongly recommend making a notated drawing before beginning work so that you can recover if your work gets disturbed.



Front panel headers

Determine which wires you need to remove in order to rewire your plug to match the USB pin-outs on your motherboard (refer to your motherboard user's manual). Working on one connector at a time, use a very small flathead screwdriver or similar tool to lift up on the black tab located beside the gold posts (squares). This will allow you to easily slide out the pins from the USB plug.

Working carefully so as not to damage the wires, connectors, or pins, slowly remove the pin from the connector. Repeat these steps for each wire you need to change.

Working carefully so as not to damage the wires, connectors or pins, slowly insert the pin into the correct slot of the connector then snap closed the black tab that was lifted in step 1. Repeat these steps for each wire you need to change.

# Section 4 Cooling System

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#### 4.1 Included Fans

The Three Hundred Two comes with two standard fans (yellow outline) – a rear 120 mm TwoCool fan and a top 140 mm TwoCool fan.

The red rectangles indicate additional fan mounts. Mounting procedures for these fans is discussed in Section 4.2.



#### 120 mm TwoCool Specifications

Size:	120 x 25 mm TwoCool <sup>™</sup> fan
Rated Voltage:	12V
Operating Voltage:	$10.8V \sim 13.2V$

Speed (RPM)	Input Current	Airflow	Static Pressure	Acoustic Noise	Input Power
High 1200	0.20A (Max.)	1.2 m <sup>3</sup> / min (42.6 CFM)	0.96 mm-H <sub>2</sub> O (0.037 inch-H <sub>2</sub> O)	23.7 dBA	2.4W
Low 600	0.10A	0.6 m <sup>3</sup> / min (21.3 CFM)	0.24 mm-H2O (0.009 inch-H2O)	17.0 dBA	1.2W

#### 140 mm TwoCool Specifications

Size:	140 x 25 mm TwoCool <sup>TM</sup>
Rated Voltage:	12V
Operating Voltage:	$10.8\mathrm{V} \sim 13.2~\mathrm{V}$

Speed (RPM)	Input Current	Airflow	Static Pressure	Acoustic Noise	Input Power
High 1200	0.3A (Max.)	1.7 m³ / min (58.9 CFM)	0.8 mm-H2O (0.03 inch-H2O)	26.0 dBA	3.6W
Low 800	0.2A	0.95 m <sup>3</sup> / min (33.6 CFM)	0.3 mm-H2O (0.01 inch-H2O)	21.8 dBA	2.4W

## 4.2 Optional Fans

The Three Hundred Two includes mounts for up to four more fans. These mounts are as follows:

- 2 x front intake 120 mm mounts
- 1 x side 120 mm mounts
- 1 x 120 mm mount behind motherboard

#### Front intake 120 mm fans

- 1. Remove the front bezel as outlined in Section 2.2.
- 2. Align the fan with the screw holes and screw in the fan in the top-left and lower-right holes (as pictured).
- 3. Screw in the long fan screws (D in Section 1.3).



Be sure to screw in the fan in the top-left and lower-right holes first.

#### Side 120 mm fan / 120 mm fan behind motherboard

On both the left and right side panels, there are fan mounts for 120 mm intake/exhaust fans for graphics cards and CPU cooling, respectively.

- 1. Align your fan with the mounting holes.
- 2. Screw in the fan with your fan screws.

## 4.3 Air Filters

There are two filters in the Three Hundred Two that can be removed and cleaned: the front filter and the PSU intake filter.

To remove the front air filter:

- 1. Remove the front bezel as described in Section 2.2.
- 2. Orient the bezel by holding it with the inside facing you, with the drive bay covers to the right.
- 3. Starting from the left side, use your thumbs to push the first two tabs out while using your index fingers to pull the filter away from the bezel.
- 4. Repeat Step 3 on the right side of the filter. The filter will come free of the bezel.



Push out on the tabs with your thumbs, and pull on the filter with your index finger.

To remove the PSU filter:

1. Pulling the filter out toward you using the tab outside the chassis.



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