

## MA40G / MA60G Mixer Amplifiers





1601 JACK MCKAY BLVD. ENNIS, TEXAS 75119 U.S.A.

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## **MA40G / MA60G**

### **Owner's Manual**

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Owner's Manual

### **Important Safety Instructions**



The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage " within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this device near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other device that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the device.
- 11. Only use attachments / accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the device. When a cart is used, use caution when moving the cart / device combination to avoid injury from tip-over.



- 13. Unplug this device during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the device has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled, or objects have fallen into the device, the device has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. This product is equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
- 16. WARNING: To reduce the risk of fire or electric shock, this device should not be exposed to rain or moisture and objects filled with liquids, such as a vase, should not be placed on this device.
- 17. To completely disconnect this equipment from the mains, disconnect the power supply cord plug from the receptacle.
- 18. The mains plug of the power supply cord shall remain readily operable.
- 19. 🕒 Protective earthing terminal. The apparatus should be connected to a mains socket with a protective earthing connection.



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### WARNING - When The Device Is In Use

- WARNING: For the terminals marked with symbol of  $\int$  may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the used of ready-made leads or cords.
- WARNING: The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
- WARNING: The mains plug is used as disconnect device, the disconnect device shall remain readily operable.
- To prevent electric shock, do not remove the product cover as there are high voltage components inside. Refer all servicing to AtlasIED.
- Should any of the following irregularities occur during use, immediately switch off the power, disconnect the power cord from the AC outlet and contact AtlasIED. Do not to attempt to continue operation with the product as this may cause fire or electric shock:
  - Smoke or strange smell coming from the unit.
  - If the product falls or the case is damaged.
  - If water or any metallic objects falls into the product.
  - If the power supply cord is damaged in any way.
  - If the unit is malfunctioning.
- Do not insert or drop metallic objects or flammable materials into the ventilation holes of the product's cover, as this may result in electric shock or fire.
- Do not place any containers with liquid or metallic objects on the top of the product. If any liquid spills into the unit, fire or electric shock may result.
- Never operate this product or touch the power supply cord during an electrical storm, electric shock may result.
- Never exceed the power rating on the product when connecting equipment. Fire and/or property damage may result.
- Operate the product only with the voltage specified on the unit. Fire and/or electric shock may result if a higher voltage is used.
- Do not modify, kink, or cut the power cord. Do not place the power cord in close proximity to heaters and do not place heavy objects on the power cord, including the product itself, doing so may result in fire or electrical shock.
- Ensure that the safety ground terminal is connected to a proper ground. Never connect the ground to a gas pipe as a catastrophic disaster may result.
- Be sure the installation of the product is stable, avoid slanted surfaces as the product may fall and cause injury or property damage.

## **CAUTION - When Installing The Product**

- Plugging in or unplugging the power cord with wet hands may result in electric shock.
- Never move the unit with the power cord plugged into the wall, as damage to the power cord may result.
- When unplugging the cord from the wall, grasp the plug, NOT the cord.
- Never install this product in humid or dusty locations, nor in direct sunlight, near sources of heat, or in areas where sooty smoke or steam are present. Fire and electric shock may result.
- Keep all sides of the unit at least 31/2" away from objects that may obstruct air flow to prevent the unit's internal temperature rise.



### **CAUTION - When The Product Is In Use**

- Never place heavy objects on the product, causing it to fall and/or break, resulting in personal injury and property damage. In addition, the product itself may fall and cause injury and property damage.
- · Contact AtlasIED for instructions on cleaning the inside of the unit. Large accumulations of dust inside the unit may result in heat buildup and fire.
- Ensure that the power supply plug is securely plugged into the wall outlet. Never allow dust to accumulate on the power plug or inside the wall outlet.
- When cleaning the unit or the unit is not to be operated for an extended period, unplug the power cord from the wall.

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# MA40G / MA60G

### Owner's Manual

### Introduction

Congratulations and thank you for purchasing the AtlasIED MA40G / MA60G mixer amplifier. This new and innovative professional grade product has been designed from the ground up to include the important features that professional installation personnel require to meet or exceed their customer's expectations. Small and compact, and engineered for reliability, the AtlasIED MA40G / MA60G will provide years of service and flexibility in today's background music and paging applications.

### **Key Features**

- MA40G 40W into 70.7V / 100V
- MA60G 60W into 70.7V / 100V
- One Balanced Mic / Line / Tel Input with Phantom Power
- 2 Unbalanced, Summing Line Level Inputs
- Variable Mute Sensitivity Control for Input 1
- Contact Closure Mute Terminals
- Rear Mounted Dip Switch Allows Mute Receive for Inputs Two and Three
- Global Power Supply, 100VAC 240VAC ~ 50/60Hz
- Optional Level Control Security Cover

### Applications

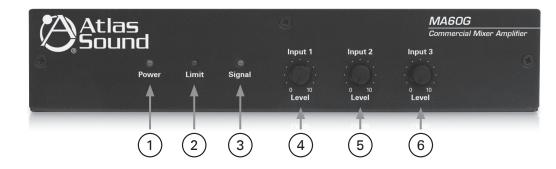
The AtlasIED MA40G and MA60G are the perfect choice for distributed business paging and background music (BGM) systems, small to medium speech privacy systems and in applications where music on hold (MOH) plus paging is required.





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### **Front Panel**



### 1. Power LED

This LED illuminates when the AC Mains are plugged in.

#### 2. Limit LED Indicator

The Limit LED will illuminate when the MA40G / MA60G is in a clipping condition, caused by excessively high input levels or a Gain control is turned up too high. An occasional flash is ok. Check that the proper signal level is being fed into the inputs and / or turn the input gain down until the LED is no longer illuminated. Refer to Limit LED & Load Conditions for more information.

#### 3. Signal LED

When the signal LED illuminates, this indicates that input signals connected to the amplifier are capable of driving the MA40G / MA60G to full power.

#### 4. Input 1 Gain

Input 1 level control potentiometer varies the amplitude of the signal fed into the amplifier. Turn clockwise to increase and counter-clockwise to decrease the signal level.

#### 5. Input 2 Gain

Input 2 level control potentiometer varies the amplitude of the signal fed into the amplifier. Turn clockwise to increase and counter-clockwise to decrease the signal level.

#### 6. Input 3 Gain

Input 3 level control potentiometer varies the amplitude of the signal fed into the amplifier. Turn clockwise to increase and counter-clockwise to decrease the signal level.

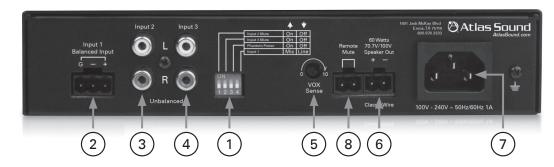


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### **Rear Panel**



#### 1. Multi Function DIP Switch

Understanding the functionality of the DIP switches is key to maximizing the versatility of the MA40G or MA60G.

**SWITCH 1** - Input 2 Mute - When "On", Input 2 signals will be muted if a signal is present on Input 1 (Refer to VOX Sensitivity Control), or if a contact closure is present on the remote mute terminals.

**SWITCH 2** - Input 3 Mute - When "On", Input 3 signals will be muted upon a signal present on Input 1 (Refer to VOX Sensitivity Control), or if a contact closure is present on the remote mute terminals.

**SWITCH 3** - Phantom Power - When "On," applies Phantom Power 24VDC to Input 1 terminals for condenser type microphones. **Note:** Only use this feature if you are using condenser microphones, otherwise leave in the "Off" position.

**SWITCH 4** - Input 1 - When in the "Mic" position, Input 1 will accept microphone level signals; when in the "Line / Tel" position, Input 1 will accept line level or telephone signals.

#### 2. Input 1

Balanced mic or line level signals connect to the (+), (–), and (G) terminals. Refer to the chart on this page for the following setting. Switch 4, labeled Input 1, must be set to the proper position for mic or line level. If you are connecting an unbalanced line level input, tie (short) the (G) and (–) terminals together. If transformer isolation is required for Input 1, contact AtlasIED for details.

#### 3. Input 2

Input 2 consists of stereo summing inputs, suitable for connection to the output of CD / DVD players, etc.

#### 4. Input 3

Input 3 consists of stereo summing inputs, suitable for connection to the output of CD / DVD players, etc.

#### 5. Mute Sensitivity Control

VOX Mute Sensitivity Control adjusts how sensitive the mute send circuitry on Input 1 reacts. Setting the control fully counter-clockwise will lower the sensitivity, where a higher amplitude signal will be required at Input 1 to trigger the mute send circuits. Fully clockwise will raise the sensitivity of the mute circuits, where a lower amplitude signal will trigger a mute send. Careful calibration of this control may be required to fully utilize the capabilities of the mute circuits.

#### 6. 70.7V / 100V Speaker Connections

For loudspeaker connections, follow the labeling paying special attention to the polarity or proceed to the Limit LED & Load Considerations section. **Note:** Do not short the terminals together or damage may occur.

#### 7. Global IEC AC Mains Power Receptacle

The MA Models support global power sources from 100V - 240V 50/60Hz. The package contains a cord that has an international IEC connector to a 120V USA type plug. It may be necessary to replace the removable power cord to meet your AC mains plug type used in your country. **Note:** It is not required to change the fuse for the different AC mains voltages.

#### 8. Remote Mute Connector

Shorting the Remote Mute terminals will mute inputs 2 and / or 3, depending on how their DIP switch settings are set for switch positions 1 and 2 labeled "Mute Rec" / "Input 2" & "Input 3". In the "On" position, the corresponding channel will be muted when the terminals are shorted together. This connection is usually done via remote switch on a microphone.



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### Wiring the MA40G / MA60G

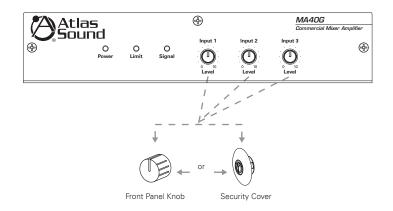
Speaker Outputs - Use 2 conductor unshielded wire of the appropriate gauge. If you are unsure about this, contact AtlasIED Tech Support at 1-800-876-3333. Make sure you know how many speakers you need and what tap value you intend to use.

Mic / Line Input - Using 2 conductor with shield for low level signals of 20 - 22-gauge is best. Maintain the proper polarity, + to +, - to -, and shield to ground.

Unbalanced Inputs and Outputs - Pre-made RCA cables can be purchased from vendors to simplify interconnection to external devices.

### **Security Cover Option**

In order to prevent unauthorized operation of the MA40G & MA60G, optional security covers are available which take the place of the front panel knobs. After the MA amplifier has been installed and is operating as desired, grasp the front panel knobs and pull straight out from the front panel. Replace the knobs with security covers, AtlasIED part number MPVCC-5, available in quantities of 5.



### **Rack Mount Kit Option**

The MA40G & MA60G can be rack mounted as a single unit or with two units together. To do so a PA702RMK Rack Mount Kit needs to be purchased from AtlasIED.





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### Limit LED and Load Consideration

If the red Limit LED illuminates, the amplifier has sensed an improper load or the input signal is too high, triggering the protection circuitry. When the load sense limit circuitry is engaged the amp will operate but at a lower power output. It is highly recommended to discontinue use immediately and correct the fault condition. If you continue to operate with the red Limit LED on, the second stage of the current sense circuit may engage causing the amp not to pass any signal. To reset the amp turn down the level controls and turn the power off for 10 seconds.

In most situations when the Limit LED is in the illuminated steady state it means the speaker system load to the amp is lower than what the amp is rated. This usually is detected when the system is first set up. Below are a few load conditions to check for if the Limit LED is on.

- 1. Connected to the wrong speaker terminal. Always check the speaker terminal to the type of load you are using. **Example:** If you are installing a 70V or 100V system make sure the wires are connected to the 70V / 100V and common (COM) terminals.
- 2. Too many speakers connected to the amp. This is a very common mistake. If you are using a 60W amp and using the 70V speaker terminals, add up the number of speakers and their wattage selections at the speaker. If they exceed 60W you must retap the speakers or remove the correct amount of speaker wattage until the wattage is 60W or less. **Example:** If you are using a 30W tap you can only connect 2 speakers to the amp. If you are using the 7.5W tap, you can connect 8 speakers. If you have too many speakers on the amp it will load the amp down, causing excessive current demand and will trigger the Limit & Protect circuit.
- 3. Wrong speaker tap selection. It is also common in a 70V or 100V system that one of the speakers is set at too low of an impedance (8 ohm) and not a 70V or 100V tap. **Note:** It only takes one speaker to load the amp down incorrectly.
- 4. Short in system. This is common if the wire is run in metal conduit and the wire got nicked during the wire pull.
- 5. Speaker Level Controls. If an L-PAD or stepped attenuator is wired wrong it can also load a system down.

#### **Measuring Speaker Loads**

Below is an impedance load chart for the MA40G and MA60G. Measure the load impedance prior to connecting the load to the amplifier. The enclosed load chart will provide the information to determine if the load or speaker system impedance is too low for the amplifier's rating. In every install it is always recommended to measure the load prior to turning the system on to be sure the system is installed correctly.

MA40G / MA60G Max Load Chart				
Speaker Selection	MA40G	MA60G		
70.7V	125 Ohms	83 Ohms		
100V	250 Ohms	166 Ohms		

#### Measuring a Speaker System's Impedance

Note: It is important to only use an Audio Impedance Meter and not a conventional Volt / Ohm meter.

A true audio frequency impedance meter is essential for reliable installation of background music and paging systems in residences, office buildings and public areas. Avoid costly service calls and amplifier damage by verifying actual speaker system impedance prior to operation. Unlike conventional volt / ohm meters, which measure DC resistance, an Audio Impedance Meter unit utilizes an internal frequency oscillator to measure true impedance. It may also be utilized with 70.7V and 100V speaker line transformers, L-pads and matching Impedance volume controls. There are several Audio Impedance meters on the market, if you need to buy one we suggest going to MCM Electronics, Parts Express or search the internet for "Audio Impedance Meter".

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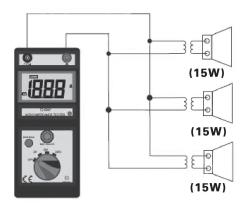
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#### Measuring 70.7V or 100V Distributed Speaker Systems

Large distributed systems typically utilize 70.7V (North America) or 100V (Europe) type system to greatly ease the connection of multiple speakers and facilitate long cable runs. Shown below are speakers connected in parallel with wattage ratings to calculate the overall load of the system. Connecting an Audio Impedance Meter to a speaker arrangement such as this will provide the overall impedance of the system.



Using the following formula you can calculate the load impedance from the speaker selected wattage. The accumulative wattage of the speaker system must not exceed the maximum wattage output rating of the amplifier or damage may occur. In this example the measurement for a 70.7V design with three speakers of 15W each, the system impedance would measure close to  $111\Omega$ . Formula  $70.7V \times 70.7V = 4998$ ,  $4998 / 45W = 111\Omega$ . The amplifier power requirements would be at least 60W for the system to operate properly. **Note:** It is always recommended to use a larger amp than needed with power headroom of at least 25%. Calculate the load impedance and compare it to the meter's audio impedance reading. **Note:** They will never be the same due to the additional wire impedance, but if they are within 10% of the maximum impedance rating or if the impedance is higher than the maximum rating, proceed connecting the load to the amplifier. If they are not recheck your speaker taps or check for shorts.



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System				
Туре	Mixer Amplifier			
Power Output				
MA40G	40W @ 70.7V (125Ω) / 40W @ 100V (250Ω)			
MA60G	60W @ 70.7V (83Ω) / 60W @ 100V (166Ω)			
Level Control				
Front Panel	Rotary Detented Attenuators with Optional Security Covers			
Status Indicators				
Power	Blue LED			
Signal	Green LED			
Limit	Red LED			
<b>Electrical Specifications (General)</b>				
Total Harmonic Distortion 1 kHz and 1 dB Below Rated Power	≤0.5% @ 1kHz, Rated Output			
Signal to Noise Ratio	Mic = >55dB Line = >55dB Input 2 / 3 = >55dB			
Frequency Response	50Hz - 20kHz			
Input Sensitivity	Input 1 Mic = 0.316~3.16mV (-50 ~ -30dBV) Line Input = 500mV (600Ω) Inputs 2 / 3 RCA = 500mV (10kΩ)			
Output Regulation	Less Than 2dB, No Load to Full Load			
Fuse	MA40G = T630mA MA60G = T1A			
Power Consumption	Amps	Watts	BTU	
MA40G Idle	0.075A	8W	27 BTU	
MA40G Average	0.26A	24W	81 BTU	
MA40G Max	0.8A	71W	242 BTU	
MA60G Idle	0.075A	8W	27 BTU	
MA60G Average	0.41A	34W	116 BTU	
MA60G Max	1.25A	102W	348 BTU	
Dimensions and Weight				
Rack Mount Requirements	1 RU, PA702RMK Rack Mount Kit Required			
Dimensions - Unit	8.5" W x 1.75" H x 7.81" D (216mm x 44mm x 198mm)			
Dimensions - Shipping	11.8" W x 4" H x 10.5" D (300mm x 102mm x 267mm)			
Weight - Unit	2.9 lbs. (1.32kg)			
Weight - Shipping	3.1 lbs. (1.4kg)			
Package Contents				
MA40G or MA60G	Qty 1			
Power Cord	Oty 1			
Manual	Qty 1			

#### Notes:

Average power consumption is based on one third (1/3) of the maximum power rating, 50% duty cycle.



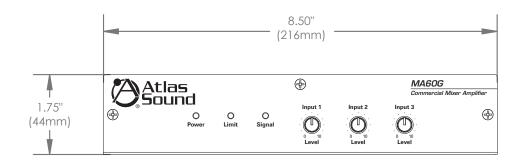
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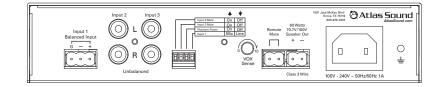
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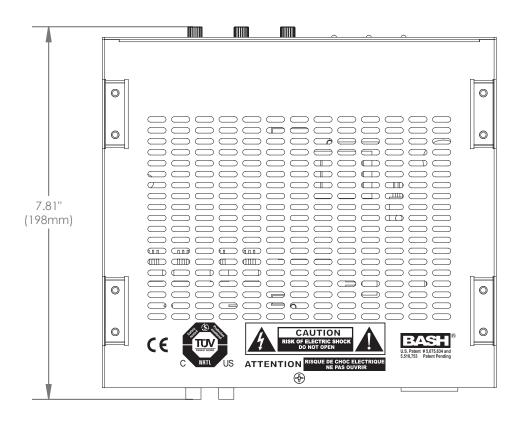
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**Dimensional Drawings** 







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### **Limited Warranty**

All products manufactured by AtlasIED are warranted to the original dealer / installer, industrial or commercial purchaser to be free from defects in material and workmanship and to be in compliance with our published specifications, if any. This warranty shall extend from the date of purchase for a period of three years on all AtlasIED products, including SOUNDOLIER brand, and ATLAS SOUND brand products except as follows: one year on electronics and control systems; one year on replacement parts; and one year on Musician Series stands and related accessories. Additionally, fuses and lamps carry no warranty. AtlasIED will solely at its discretion, replace at no charge or repair free of charge defective parts or products when the product has been applied and used in accordance with our published operation and installation instructions. We will not be responsible for defects caused by improper storage, misuse (including failure to provide reasonable and necessary maintenance), accident, abnormal atmospheres, water immersion, lightning discharge, or malfunctions when products have been modified or operated in excess of rated power, altered, serviced or installed in other than a workman like manner. The original sales invoice should be retained as evidence of purchase under the terms of this warranty. All warranty returns must comply with our returns policy set forth below. When products returned to AtlasIED do not qualify for repair or replacement under our warranty, repairs may be performed at prevailing costs for material and labor unless there is included with the returned product(s) a written request for an estimate of repair costs before any nonwarranty work is performed. In the event of replacement or upon completion of repairs, return shipment will be made with the transportation charges collect.

EXCEPT TO THE EXTENT THAT APPLICABLE LAW PREVENTS THE LIMITATION OF CONSEQUENTIAL DAMAGES FOR PERSONAL INJURY, ATLASIED SHALL NOT BE LIABLE IN TORT OR CONTRACT FOR ANY DIRECT, CONSEQUENTIAL OR INCIDENTAL LOSS OR DAMAGE ARISING OUT OF THE INSTALLATION, USE OR INABILITY TO USE THE PRODUCTS. THE ABOVE WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

AtlasIED does not assume, or does it authorize any other person to assume or extend on its behalf, any other warranty, obligation, or liability. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

### Service

Should your MA Series Amplifier require service, please contact the AtlasIED warranty department through the online warranty claim process.

#### **Online Warranty Claim Processes**

- 1. Warranty submissions are accepted at: https://www.atlasied.com/warranty\_statement where the type of return Warranty or Stock return can be selected.
- Once selected, you will be prompted to enter your login credentials. If you do not have a login, register on the site. If already logged-in, navigate to this page by selecting "Support" and then "Warranty & Returns" from the top menu.
- 3. In order to file a Warranty Claim, you will need:
  - A. A copy of the invoice / receipt of the purchased item
  - B. Date of Purchase
  - C. The product name or SKU
  - D. The serial number for the item (if no serial number exists, enter N/A)
  - E. A brief description of the fault for the claim
- 4. Once all required fields are completed, select the "Submit Button". You will receive 2 emails:
  - 1. One with a confirmation of the submission
  - 2. One with a case# for your reference should you need to contact us.

Please allow 2-3 business days for a response with a Return Authorization (RA) number and further instructions.

AtlasIED Tech Support can be reached at 1-800-876-3333 or atlasied.com/support.

Visit our website at www.AtlasIED.com to see other AtlasIED products.

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