

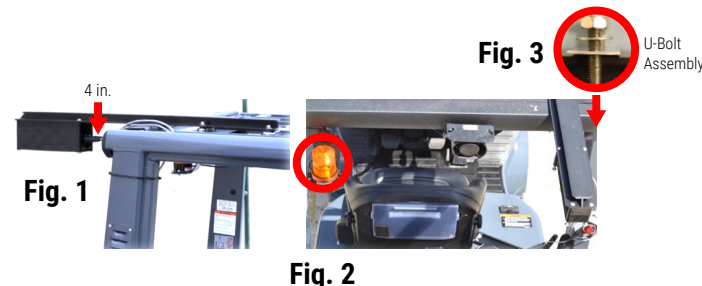
DDAC MFG System Installation Guide (For Model # DDAC-PDS-SYS-2)

STEPS FOR DDAC MFG SYSTEM INSTALLATION

STEP 1: Install Generator

(This step is for rear mounts for other mounting options See Page 5)

Install the Generator on top of the overhead guard and at least 4" from the frame. **(Fig. 1)** It should be as far from the LED light as possible. **(Fig. 2)** Use the U-Bolts to secure the Generator to the overhead guard. **(Fig. 3)**



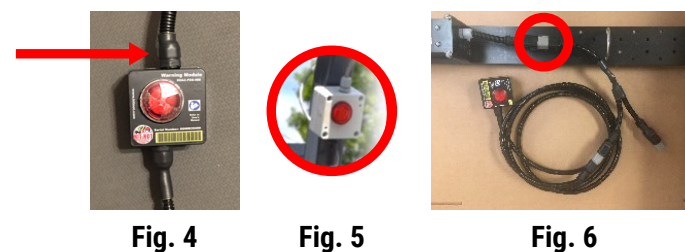
STEP 2: Install Warning Module

Connection to generator should be pointed up. **(Fig. 4)**

Use supplied Zip Ties to secure above and below the warning module. **(Fig. 4)**

Place adhesive side of the Warning Module to the frame of the forklift (frame must be cleaned before applying adhesive) where it can be **seen and heard by the operator. (Fig. 5)**

An optional Auxiliary Light (Light Only Warning Module) can be connected to the Generator to provide an additional visual alert. **(Fig. 6)**



STEP 3: Warning Module Connections

The cable exiting the warning module with **the bare wires goes to the machine for power. (Fig. 7)**

The cable exiting the warning module with **the connector goes to the Generator. (Fig. 8)**

⚠ Note: Zip Ties included for attaching the cables to the frame of the machine.

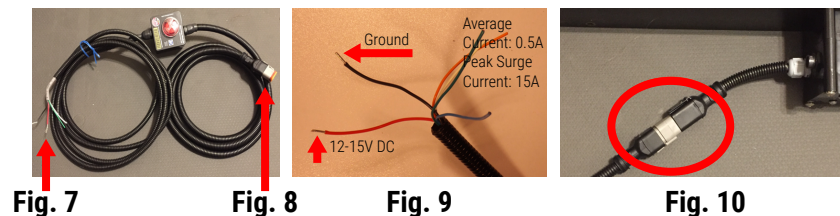
STEP 4: Making the Connection to Machine Power

Connect to a switched and fused (10A min) circuit. **(Fig. 9)**

⚠ DO NOT APPLY VOLTAGE TO THE INCORRECT WIRES, IT MAY RESULT IN HARDWARE DAMAGE.

STEP 5: Making the Connection to the Generator

Connect Warning Module (Plug) to Generator (Receptacle). (For weather shield mounts the connection is already made inside the weather shield). **(Fig. 10)**



STEPS FOR DDAC MFG SYSTEM INSTALLATION

STEP 6: Cab Silencer

Place the Cab Silencer within 30" of the Operator's PAD **AND** 4ft away from the generator. The best location is behind the operator's seat. The Cab Silencer will blind the CAM if installed on the overhead guard. (Fig. 11)

⚠ In order to avoid battery drain while the vehicle is off, connect Cab Silencer to a switched and fused (5A min) circuit.

STEP 7: Silent Zone Adjust

- Factory set to 30".
- To decrease the size, unscrew the cap from the Cab Silencer.
- Activate a PAD and turn on truck.
- Using a 3/32" slotted screwdriver, turn the Pot until the PAD silences at the desired location.
- Replace cap.

⚠ Ensure the Silent Zone does not extend outside of the vehicle. (Fig. 12)

STEP 8: Volume Adjust Using Range Adjust Tool

- The clear plastic cover on the Warning Module can be turned to reduce the sound.
- Ensure all other MFGs and PADs within 90 feet are off.
- Remove the Clear Pull Tab and Power on the range adjust tool within 4 feet of MFG. The warning module will sound. (Fig. 13)
- Press the Red switch to increase the volume of the warning module and the Black switch to decrease the volume of the warning module.

⚠ Range Adjust Tool will NOT Work in the Silent Zone. (Fig. 14)

STEP 9: Range Adjust Using Range Adjust Tool

- The field is factory set to 30 feet Danger Zone.
- Ensure all other MFGs and PADs within 90 feet are off. (Fig. 15)
- Power on 1 PAD at the distance the field should be set to and leave it there.
- Remove the Clear Pull Tab and Power on the range adjust tool within 4 feet of MFG.
- The warning module will sound. Hold down both switches for 5 seconds. Release.
- Press the Red switch to increase the range and the Black switch to decrease the range. (Fig. 16)
- The maximum danger range using a DDAC PAD is 30 feet and for a Type A PAD it is 39 feet.

All adjustments in Steps 7-9 need to be done by a professional.

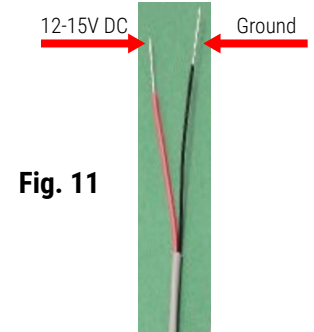


Fig. 11

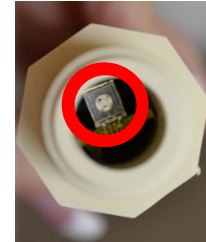


Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16

STEPS FOR DDAC MFG SYSTEM INSTALLATION

STEP 10: Volume Adjust Using Potentiometers

For Units in Weather shields see Step 8 to adjust Range.

- The clear plastic cover on the Warning Module can be turned to reduce the sound. **(Fig. 17)**
- If the sound still needs to be reduced, remove the bottom cover of the generator with a Phillips head screwdriver.
- Turn on the truck and activate the PAD.
- Adjust the "VOL" pot with a 3/32" slotted screwdriver. **(Fig. 18)** **Slowly** turn the VOL pot counterclockwise to decrease and clockwise to increase the volume. **Do NOT turn beyond the "STOP"**.
- Return the bottom cover if Volume is correct.



Fig. 17

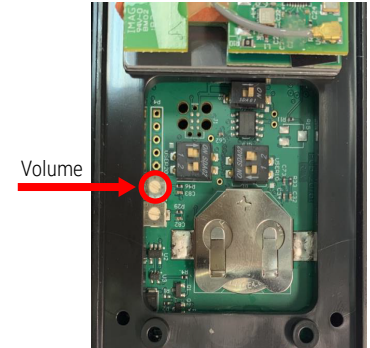


Fig. 18

STEP 11: Range Adjust Using Potentiometers

For Units in Weather shields see Step 9 to adjust Range.

- Remove bottom cover see step 10.
- Have a Pedestrian with a PAD at the desired Danger Zone Limit. Adjust the "PWM" pot with a 3/32" slotted screwdriver. **(Fig. 19)** **Slowly** turn the PWM pot (counterclockwise to decrease and clockwise to increase the Zones) until the danger zone alerts at the desired distance. **Do NOT turn beyond the "STOP"**. Return bottom cover.

⚠ To ensure proper functionality under all conditions the Danger Zone limit should not exceed 30 feet with DDAC PADs and 39 feet with Type A PADs. If a larger field is required, contact Frederick Mobile Instrumentation for options.

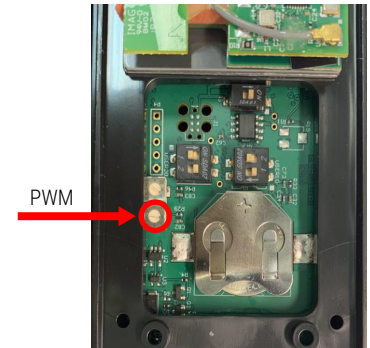


Fig. 19

STEP 12: Functionality of Switches

Switch 1 - In the ON position (**switch towards point of arrow**) the sound maintains its setting under all conditions. In the off position the sound is maximum when entering a zone for the first 3 seconds then the sound level returns to its setting **(Fig. 20)**.

Switch 2 - In the ON position disables Collision Avoidance (only applicable if CAM installed on unit) **(Fig. 20)**.

⚠ Check the Direction of the Arrow on Switch for Correct Orientation (↑ UP = ON).

⚠ These Switches are for Gen-2 Systems. (Fig. 21)

CAM ALERTS		
SW1	SW1	FUNCTION
ON	ON	30 Second Re-Alert
OFF	ON	Continuous CAM
ON	OFF	2 Second Timeout (STND)
OFF	OFF	60 Second Re-Alert

Fig. 21

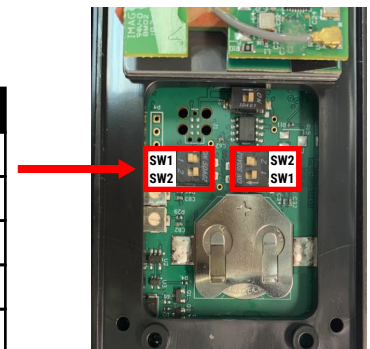


Fig. 20

STEPS FOR DDAC MFG SYSTEM INSTALLATION

STEP 13: Alerting Signals

CAM Alert (Truck to Truck) (If Equipped) (Fig. 22)

- Generator will beep rapidly for 2 seconds when it receives the CAM signal from the other truck. The signal will reset when a PAD comes in the Warning Zone.

PAD (Pedestrian Alert) (Fig. 23)

- Warning Zone - Series of 3 beeps.
- Danger Zone - Continuous signal.

⚠ **LOW BATTERY ON PAD: Series of 2 beeps. PAD will not indicate Alert Signals!**

⚠ **NOTE:** A Generator/Truck without a CAM can be used with a CAM Truck to check the field. The NO CAM Truck will receive the warning of the CAM Truck. The CAM Truck will not activate an alarm on it's own truck.

STEP 14: Fault Code Identification

1. Warning Module

The Warning Module will beep at a Rate of 2 Beeps every 5 Seconds. This Alert Pattern is Notably Different than any other Alerts (Warning, Danger, Collision Avoidance).

2. Yellow LED on Magnetic Field Generator (MFG)

To Identify the Fault, you must be able view the Yellow LED that is Located on the Magnetic Field Generator (MFG) beside the Blue (Power) LED.

- If the Yellow LED is NOT Blinking the Fault is; The MFG is NOT Communicating with the Collision Avoidance Module.
 - Return to Factory using RMA.
- If the Yellow LED is Blinking ONCE the Fault is; The **Pre-Set** Magnetic Field is NOT able to reach the Desired (TARGET) Setting. Check the Following:
 - Mounting, Review Step 1, NOTE: MFG CANNOT be Completely Enclosed in 360° of Metal.
 - Re-Set the Magnetic Field Distance, Review Steps 9 & 11.
 - Return to Factory using RMA.
- If the Yellow LED is Blinking Twice the Fault is; LOW Input Voltage. Check the Following:
 - For DDAC you MUST Maintain 12V DC to System.
 - For SXL you MUST Maintain 24V DC to System.

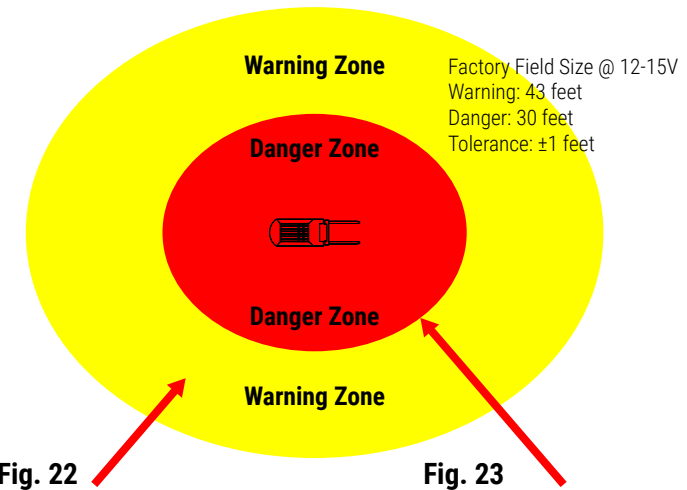


Fig. 22

To check the field for a Truck with CAM, bring another Truck with CAM facing each other outside the Warning Zone. Slowly move a Truck into the Warning zone. Rapid beeps will sound on both trucks. The standard alarm times out after 5 seconds.

Fig. 23

To check the field, hold a PAD at the edge of the Danger Zone on the long axis of the Generator. Slowly move the PAD from Danger to Warning.

ALTERNATE GENERATOR MOUNTING CONFIGURATIONS

Top Mount

Install the Generator on top of the overhead guard (Fig. 24). It should be placed as far from the LED light as possible. Use the U-Bolts to secure the Generator to the overhead guard.

Front Mount

Install the Generator on front post of the overhead guard. Use the U-Bolts to secure the Generator to the frame (Fig. 25).

Rear Mount with Weather Shield

Install the Generator on top of the overhead guard and at least 4" from the frame (Fig. 26). It should be placed as far from the LED light as possible. Use the U-Bolts to secure the Generator to the overhead guard.

Top Mount with Weather Shield

Remove the end caps using a phillips head screwdriver. Install the Generator on top of the overhead guard. (Fig. 27) It should be placed as far from the LED light as possible. Use the U-Bolts to secure the Generator to the overhead guard.

Cab Silencer Locations (Fig. 28)

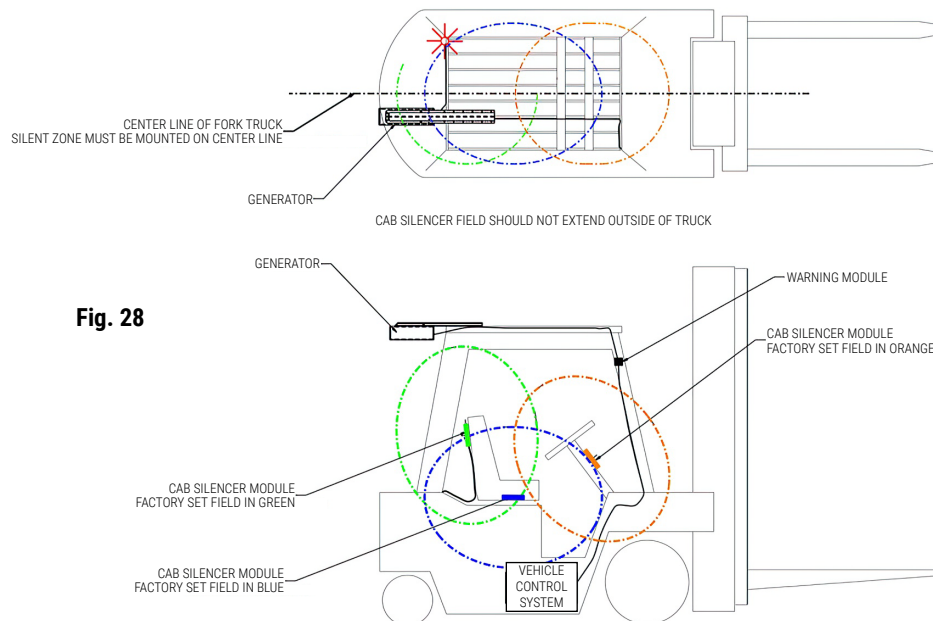


Fig. 28



Fig. 24

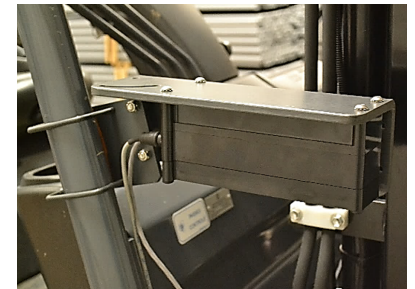


Fig. 25



Fig. 26



Fig. 27

HIT-NOT® WARRANTY TERMS AND CONDITIONS

HIT-NOT® WARRANTY TERMS AND CONDITIONS

IMPORTANT-READ CAREFULLY: BY AND INSTALLING AND USING THE HIT-NOT® SYSTEM, YOU ACKNOWLEDGE AND AGREE TO BE CONTRACTUALLY BOUND BY THESE WARRANTY TERMS AND CONDITIONS. IF ANY OF THE TERMS OF USE ARE NOT ACCEPTABLE TO YOU, DO NOT INSTALL OR USE THE HIT-NOT® SYSTEM.

THE HIT-NOT® SYSTEM IS SIMPLY A TOOL TO BE USED TO ASSIST YOU IN SAFELY OPERATING HEAVY EQUIPMENT. THE HIT-NOT® SYSTEM IS NOT INTENDED AS A SUBSTITUTE FOR, NOR DOES IT REPLACE, SAFE PRACTICES IN OPERATING HEAVY EQUIPMENT. YOUR USE OF THE HIT-NOT® SYSTEM IS SOLELY AT YOUR OWN INDEPENDENT DISCRETION AND RISK. THE HIT-NOT® SYSTEM IS NOT GUARANTEED TO PREVENT ACCIDENTS.

ACCEPTANCE AND DEFINITIONS.

(A) Acceptance of Terms. These Warranty Terms and Conditions (these "Terms") are a legal agreement between You, as a purchaser and end user of the System and Frederick Mobile Instrumentation, LLC. By installing the System or using the System in any way, You are (1) agreeing to be bound by these Terms. IF YOU DO NOT AGREE WITH ALL THESE TERMS, DO NOT USE OR INSTALL THE SYSTEM. YOU MUST RETURN THE SYSTEM TO THE DEALER FROM WHICH YOU PURCHASED THE SYSTEM, IN ACCORDANCE WITH THE DEALER'S POLICIES. This Agreement constitutes the entire and only agreement between FMI and You and supersedes all prior or contemporaneous agreements, representations, warranties and understandings with respect to the System, and the subject matter of this Agreement.

(B) Definitions. In this Agreement, "You" and "Your" refer to You as the user of the System. "FMI" "we," "us" and "our" refer to Frederick Mobile Instrumentation, LLC and our successors, partners, affiliates, subsidiaries and assigns. "System" refers to the Hit-Not® System purchased by You. "Terms" refers, collectively, to these Warranty Terms and Conditions.

LIMITED WARRANTIES; DISCLAIMER.

(A) Limited Warranty. FMI hereby warrants against: (1) defects in the System, either in workmanship or material, and (2) the failure of the System to conform to FMI's written specifications, for a period of one (1) year after date of delivery to You, in each case; provided that such System has been under proper and normal use at all times during such period. All warranty claims under these Terms must be submitted through the Dealer from which you purchased the System. FMI's liability is restricted to the replacement or repair of the defective or nonconforming parts alone and does not include any installation, labor, or expense involved, or other contingent liability. Liability for any components manufactured by third parties but incorporated into FMI Products to be furnished by FMI, shall be limited to the guarantee or liability to FMI of the manufacturer or supplier of such components. FMI is not liable for damages resulting from the use or misuse of the FMI Products.

(B) Disclaimers. EXCEPT AS EXPRESSLY SET FORTH ABOVE: (1) NO ADVICE OR INFORMATION, WHETHER ORAL OR WRITTEN, PROVIDED BY OR THROUGH FMI, ANY DEALER OR DISTRIBUTOR, OR ANY THIRD PARTY SHALL IMPLY THE CREATION OF ANY REPRESENTATION OR WARRANTY OF ANY KIND WHATSOEVER BY FMI; (2) THE SYSTEM IS PROVIDED "AS IS" AND WITHOUT ANY WARRANTY OF ANY KIND, EITHER EXPRESS, STATUTORY OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE; (3) FMI DOES NOT REPRESENT OR WARRANT THAT THE SYSTEM WILL BE FUNCTIONAL OR DEFECT-FREE, OR THAT DEFECTS WILL BE CORRECTED; AND (4) FMI HEREBY DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY FOR THE IMPROPER USE OF THE SYSTEM OR FOR THE INCORRECT OR IMPROPER INSTALLATION OF THE SYSTEM. SOME STATES OR OTHER JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO THE ABOVE EXCLUSIONS MAY NOT APPLY TO YOU. UNDER NO CIRCUMSTANCES WILL FMI BE LIABLE FOR ANY LOSS OR DAMAGE CAUSED BY YOUR USE OF THE SYSTEM. USE OF THE SYSTEM IS AT YOUR SOLE RISK.

INDEMNIFICATION; RELEASE; LIMITATION OF LIABILITY.

(A) Indemnification. You agree to indemnify and hold FMI, any and all parent, subsidiary, and affiliate organizations, and their respective officers, directors, agents, shareholders, members, managers, advisors, consultants, employees, successors and assigns (collectively, the "Protected Parties") harmless from and against all losses, costs, liabilities, expenses (including reasonable attorneys' fees and expenses), claims, demands, and damages, actual and consequential, of every kind and nature, known and unknown, suspected and unsuspected, disclosed and undisclosed (collectively, "Losses"), that are in any way due to or arising out of Your use of the System, unless caused by the gross negligence or willful misconduct of FMI. FMI reserves the right, at Your expense, to assume the exclusive defense and control of any matter for which You are required to indemnify any of the Protected Parties, and You agree to cooperate with FMI's defense of such claims. FMI will use reasonable efforts to notify You of any such claim, action, or proceeding which is subject to this indemnification upon FMI becoming aware of it.

(B) Limitation of Liabilities. IN NO EVENT SHALL FMI, ITS LICENSORS, SUPPLIERS, CONTENT PROVIDERS OR THEIR RESPECTIVE PARENTS, SUBSIDIARIES, AFFILIATES, OFFICERS, DIRECTORS, SHAREHOLDERS, ADVISORS, CONSULTANTS, EMPLOYEES, SUCCESSORS OR ASSIGNS, BE LIABLE TO YOU OR ANY THIRD PARTY FOR ANY INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES (INCLUDING BUT NOT LIMITED TO LOSS OF BUSINESS, PROFITS, USE, REVENUE OR OTHER ECONOMIC ADVANTAGE), ARISING OUT OF OR IN CONNECTION WITH THE SYSTEM OR THESE TERMS BASED ON ANY THEORY, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE LIMITATION OF DAMAGES SET FORTH ABOVE IS A FUNDAMENTAL ELEMENT OF THE BASIS OF THE BARGAIN BETWEEN US AND YOU. THE SYSTEM WOULD NOT BE PROVIDED FOR SALE TO YOU WITHOUT SUCH LIMITATIONS. IN NO EVENT WILL OUR LIABILITY, OR THE LIABILITY OF OUR LICENSORS, AND OUR RESPECTIVE PARENTS, AFFILIATES, SUBSIDIARIES, OFFICERS, DIRECTORS, SHAREHOLDERS, EMPLOYEES, ADVISORS, CONSULTANTS, SUCCESSORS OR ASSIGNS, TO YOU OR ANY THIRD PARTIES IN ANY CIRCUMSTANCE EXCEED ONE HUNDRED DOLLARS (US \$100.00). SOME STATES OR OTHER JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

CHOICE OF LAW; DISPUTE RESOLUTION. The Agreement shall be governed by, and construed in accordance with the laws of the State of Alabama, without regard to its conflicts of law provisions. In the event of any dispute, claim, question or disagreement ("Claim") between You and FMI arising from or relating to Your use of the System, You and FMI will attempt, in good faith, to resolve any Claim within thirty (30) days after written notice of the Claim. Any Claim not so resolved shall be finally settled by binding arbitration administered by the American Arbitration Association under its Commercial Arbitration Rules, using the Expedited Procedures. Judgment on the award rendered by the arbitrator(s) may be entered in any court of competent jurisdiction. The arbitrator shall be an individual generally skilled in the legal and business aspects of the subject matter of this Agreement. The arbitrator shall have no authority to impose penalties or award punitive damages. The arbitration shall take place in Madison County, Alabama, and the arbitrator shall apply the law of the State of Alabama and applicable rules of evidence. If all parties and the arbitrator agree, arbitration may take place by telephone or by written communication. Unless the arbitrator otherwise directs, the parties, their representatives, other participants, and the arbitrator shall hold the existence, content, and result of the arbitration in confidence. No action, regardless of form, related to the obligations of the parties under this Agreement may be brought by either party against the other more than one (1) year after the cause of action has accrued. In any proceeding to enforce this Agreement, the prevailing party will have the right, in addition to its other rights hereunder, to recover its reasonable litigation costs and reasonable attorneys' fees.

Nothing in this Section shall preclude any party from seeking equitable relief from a court of competent jurisdiction or exercising any self-help remedies, whether before, during or after the pendency of any arbitration proceeding. The parties agree that taking any such action does not waive any right that either party has to demand arbitration at any time with respect to subsequent or amended disputes claimed or filed against a party after commencement of litigation. BY AGREEING TO THESE TERMS AND CONDITIONS, ALL PARTIES AGREE TO WAIVE ANY RIGHTS TO A JURY OR COURT TRIAL. If any provision of this dispute resolution procedure is held invalid or unenforceable, the remaining provisions shall remain in full force and shall not be affected by the invalidity of any other provision. By tapping "Accept", you again agree and confirm that you have read and understood these Terms of Service and the

[Disclaimer](#) [Accept](#)

V. ENTIRE AGREEMENT; ASSIGNMENT; MISCELLANEOUS. These Terms constitute the complete and exclusive statement of the agreement between You and us. It supersedes any and all prior or contemporaneous agreement, oral or written, and any other communications, representations, warranties and understanding relating to the subject matter hereof. If there is a conflict between an oral or written representation of any FMI employee or agent, or any Dealer or Distributor employee or agent, and these Terms, these Terms will prevail. These Terms will prevail over other rules and policies on the System. Our failure to enforce any provision of these terms shall not be deemed either a waiver of such provision or a waiver of the right to enforce such provision. If any provision of these Terms is held by an arbitrator or court of competent jurisdiction to be contrary to law, then such provision shall be construed, as nearly as possible, to reflect the intentions of the parties and the other provisions shall remain in full force and effect. The provision of these Terms which, by their terms should survive termination or expiration of these Terms, shall survive the termination or expiration hereof. FMI may assign this Agreement to any other entity of its choosing, with or without notice to You. You may not assign these Terms to any other party without the prior written consent of FMI. FMI shall not be deemed to have waived any of its rights or remedies unless such waiver is in writing and signed by FMI. No delay or omission on the part of FMI in exercising any rights or remedies shall operate as a waiver of such rights or remedies or any other rights or remedies on future occasions. The section titles in these Terms are solely used for the convenience of the parties and have no legal or contractual significance.

END OF HIT-NOT® WARRANTY TERMS AND CONDITIONS



www.hitnot.com