

## DDAC-PDS-SXL 12V DC System Installation Guide

### STEPS FOR DDAC-PDS-SXL 12V DC SYSTEM INSTALLATION

⚠ Keep 12" from the unit when powered.

#### STEP 1: Install Generator

(Mounting Location should be at least 12" for Operator).

Install the Generator on top of the overhead guard and at least 4" from the frame. **It should be as far from the strobe light as possible.** Adjust magnets to fit as needed. (Fig. 1)

Long Axis of MFG should run parallel to long axis of vehicle as shown. (Fig. 2)



Fig. 1



Fig. 2

#### STEP 2: Install Warning Module

Connection to generator should be pointed up. (Fig. 3)

Use supplied Zip Ties to secure above and below the warning module. (Fig. 3)

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. 4)

An optional Auxiliary Light (Light Only Warning Module) can be connected to the Generator to provide an additional visual alert. (Fig. 5)



Fig. 3



Fig. 4



Fig. 5

#### STEP 3: Warning Module Connections

The cable exiting the warning module with **the bare wires** goes to the Machine for power. (Fig. 6)

The cable exiting the warning module with **the connector** goes to the Generator. (Fig. 7)

⚠ **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. 8)

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



Fig. 6

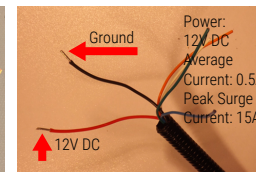


Fig. 7



Fig. 8



Fig. 9

#### STEP 5: Making the Connection to the Generator

Connect Warning Module (Plug) to Generator (Receptacle). (Fig. 9)

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## STEP 6: Cab Silencer

**Place the Cab Silencer within 30" of the Operator's PAD. The best location is behind the operator's seat.** The Cab Silencer should be 4 feet away from the Generator. If NOT, the Cab Silencer will BLIND the CAM and the Collision Avoidance can be Affected. (Fig. 10)

⚠ **In order to avoid battery drain while the vehicle is off, connect the Cab Silencer to same switched and fused circuit as Generator.**

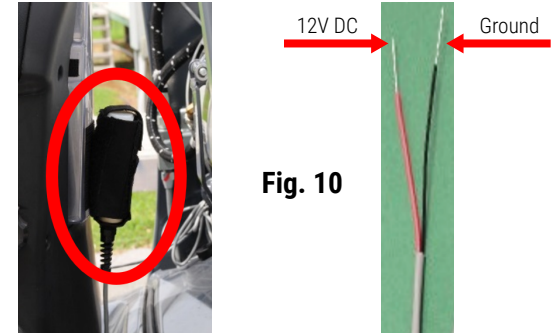


Fig. 10

## STEP 7: Silent Zone Adjust

- Factory set to ~30".
- To decrease the size, unscrew the cap from the Cab Silencer. (Fig. 11)
- 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.**

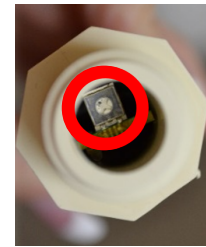


Fig. 11

## STEP 8: Volume Adjust Using Range Adjust Tool

- The clear plastic cover on the Warning Module can be turned to reduce the sound. (Fig. 12)
- If the sound still needs to be reduced, utilize the range adjust tool (Contact FMI).
- Ensure all other MFGs and PADs within 70 feet are off. Power on the range adjust tool within 4 feet of MFG. The warning module will sound. Press the up switch to increase the volume of the warning module and the down switch to decrease the volume of the warning module. (Fig. 13)



Fig. 12



Fig. 13

## STEP 9: Volume Adjust Using Potentiometers

- Remove the phillips head screw under the Red Arrow Labeled "VOL". (Fig. 14)
- Using a 3/32" slotted screwdriver slowly adjust the "VOL" pot until the volume is to the desired level.
- When the desired volume is set, replace the phillips head screw.

**All adjustments in Steps 7-14 need to be done by a professional.**

⚠ **Keep 12" from the unit when powered.**



Fig. 14

# STEPS FOR DDAC-PDS-SXL 12V DC SYSTEM INSTALLATION

## STEP 10: Range Adjust Using Potentiometers

- Remove the phillips head screw under the Red Arrow Labeled "PWM". (Fig. 15)
- Have a Pedestrian with a PAD at the desired Danger Zone.
- Using a 3/32" slotted screwdriver slowly adjust the "PWM" pot until the Danger Zone alerts at the desired distance.
- When the desired zone is set, replace the phillips head screw.



Fig. 15

## STEP 11: Range Adjust Using Range Adjust Tool

- If the range needs to be reduced, utilize the range adjust tool (Contact FMI).
- Ensure all other MFGs and PADs within 70 feet are off. Power on 1 PAD at the distance the field should be set to and leave it there. 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 up switch to increase the range and the down switch to decrease the range. (Fig. 16)(Fig. 17)



Fig. 16

## STEP 12: Functionality of Switches (Fig. 21)

- Remove the RED Cap Screw. (Fig. 18)
- There are Two (2) sets of switches located on the PC Board. (Fig. 19)(Fig. 20)
- Make the required Adjustment using the information below.
- When Adjustments are completed Replace RED Cap.

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

DDAC PAD/CAM @ 12DC			TYPE A PAD/CAM @ 12DC		
DISTANCE	DANGER (DZ)	WARNING (WZ)	DISTANCE	DANGER (DZ)	WARNING (WZ)
Minimum	≈19 FT	≈26 FT	Minimum	≈20 FT	≈33 FT
Maximum	≈39 FT	≈53 FT	Maximum	≈50 FT	≈65 FT

Fig. 17

SET 1		SET 1	
SW 1 (SOUND LEVEL ADJUSTMENTS)		SW 2 (CAM ON/DISABLED)	
SW 1	FUNCTION	SW 2	FUNCTION
ON	Sound Level maintains its setting under all conditions	ON	CAM is Disabled (OFF)
OFF	Sound Level increased to maximum for the first 3 seconds then returns to previous set level	OFF	CAM is ON

SET 2		
SW 2	SW 2	FUNCTION
ON	ON	30 Second Re-Alert
OFF	ON	Continuous Alert
ON	OFF	2 Second Timeout (STD)
OFF	OFF	60 Second Re-Alert

Fig. 21

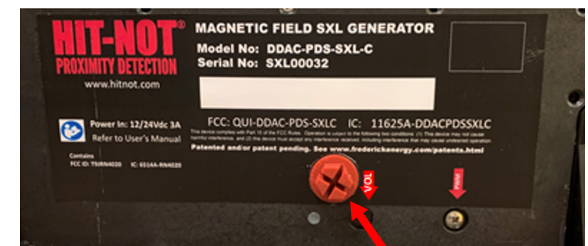


Fig. 18

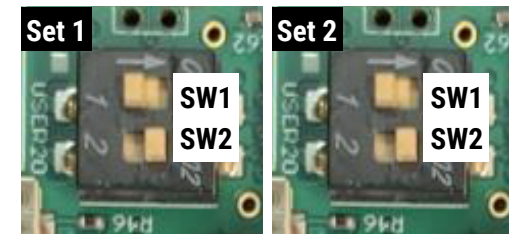


Fig. 19

# STEPS FOR DDAC-PDS-SXL 12V DC 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.

⚠️ **Keep 12" from the unit when powered.**

## STEP 14: Fault Code Identification

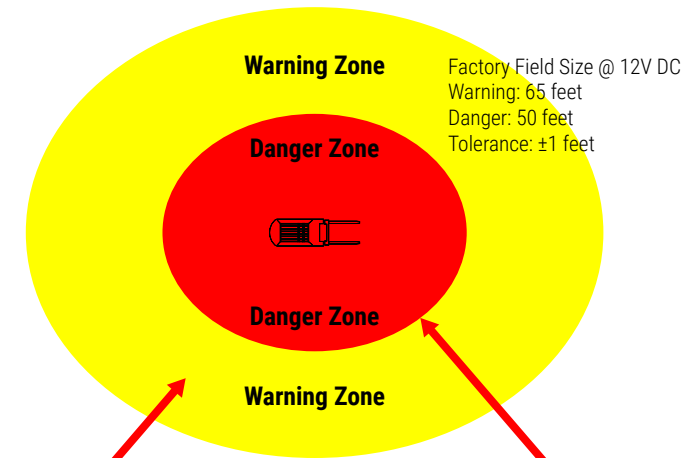
### 1. Warning Module

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 10 & 11.
  - Return to Factory using RMA.
- If the Yellow LED is Blinking Twice the Fault is; LOW Input Voltage. Check the Following:
  - For SXL 12V DC you MUST Maintain 12V 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. Rapids 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.



# HIT-NOT® WARRANTY TERMS AND CONDITIONS

## HIT-NOT® WARRANTY TERMS AND CONDITIONS

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**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.

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