



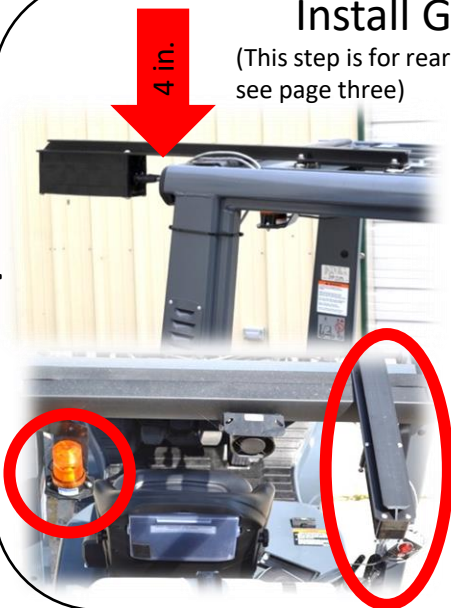
# DDAC MFG System Installation Guide

Model #; DDAC-PDS-SYS-2

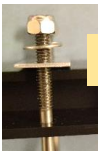
Step 1

## Install Generator

(This step is for rear mounts for other mounting options see page three)



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.** Use the U-Bolts to secure the Generator to the overhead guard.



U-Bolt Assembly

Step 2

## Install Warning Module



Connection to generator should be pointed up

Use supplied Zip ties to secure above and below the warning module.



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.



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

Step 3

## Warning Module Connections

The cable exiting the warning module with the bare wires goes to the machine for power

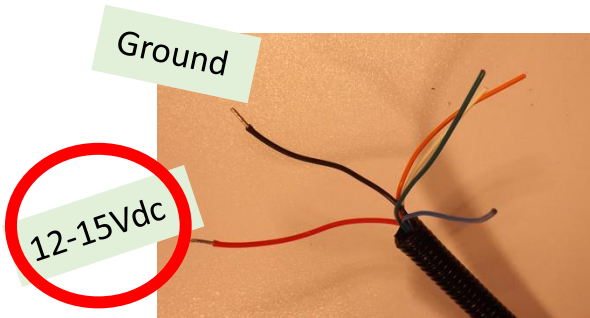


The cable exiting the warning module with the connector goes to the Generator

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

Step 4

## Making the connection to machine power



Average Current:0.5A  
Peak Surge Current: 15A

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

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

Step 5

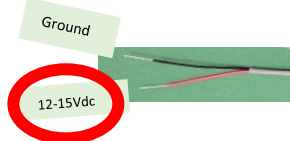
## Making the Connection to the Generator



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

Step 6

## Cab Silencer



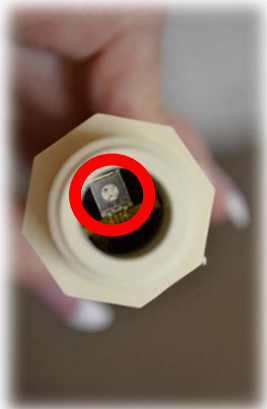
In order to avoid battery drain while the vehicle is off, connect Cab Silencer to a switched and fused (5A min) circuit. **Place the Cab Silencer within ≈30" of the Operator's PAD AND 4ft away from the generator. The best location is behind the operator's seat. The Cab Silencer will blind the CAM if installed on the overhead guard.**



Step 7

## Silent Zone Adjust

- Factory set to ≈30 in.
- 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

Step 8

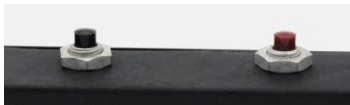
## Volume Adjust using Range Adjust Tool



- The clear plastic cover on the Warning Module can be turned to reduce the sound.
- Ensure all other MFGs and PADs within 90 ft are off. Remove the Clear Pull Tab and Power on the range adjust tool within 4ft of MFG. The warning module will sound. 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.



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

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# DDAC MFG System Installation Guide

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



Step 9



## Range Adjust using Range Adjust Tool

- The field is factory set to 30' Danger Zone.
- Ensure all other MFGs and PADs within 90 ft are off. 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 4ft 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. The maximum danger range using a DDAC PAD is 30' and for a Type A PAD it is 39'.

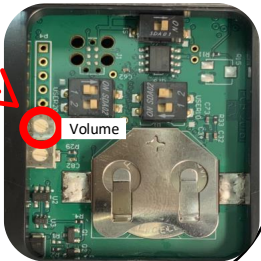
Step 10



## 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.
- 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. 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.



Step 11

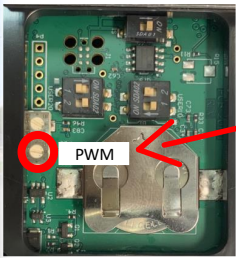


## Range Adjust using Potentiometers

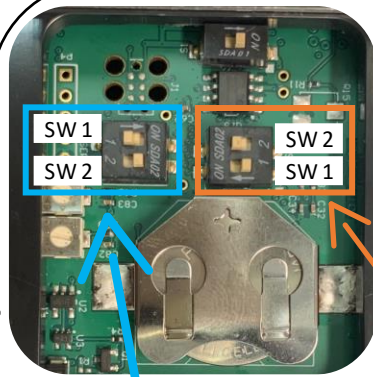
For Units in Weather shields see Step 9 to adjust Range

- 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. 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' with DDAC PADs and 39' with Type A PADs. If a larger field is required, contact Frederick Mobile Instrumentation for options.



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.

**Switch 2** in the on position disables Collision Avoidance [only applicable if CAM installed on unit]

CAM ALERTS		
SW 1	SW2	FUNCTION
ON	ON	30 Second Re-Alert
OFF	ON	Continuous CAM
ON	OFF	2 Sec. Timeout (STND)
OFF	OFF	60 Second Re-Alert

Check the Direction of the Arrow on Switch for Correct Orientation

↑ UP = ON)

These Switches are for Gen-2 Systems

Step 13

## Alerting Signals

### CAM Alert (Truck to Truck) (If Equipped)

- 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.

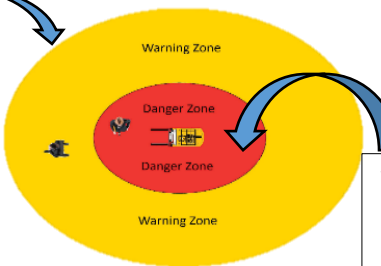
### PAD (Pedestrian Alert)

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

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.

**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.



**Factory Field Size @ 12-15V:**  
Warning: 43ft  
Danger: 30ft  
Tolerance: ±1ft

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.

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 12 VDC to System.
  - For SXL you MUST Maintain 24 VDC to System.



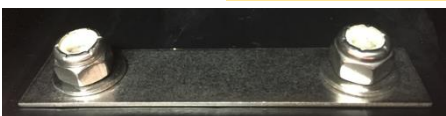
# Alternate Generator Mounting Configurations

## Top Mount



Install the Generator on top of the overhead guard. **It should be placed as far from the strobe light as possible.** Use the U-Bolts to secure the Generator to the overhead guard.

U-Bolt Assembly



## Front Mount



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

## Rear Mount with Weather shield



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



U-Bolt Assembly

## Top Mount with Weather shield

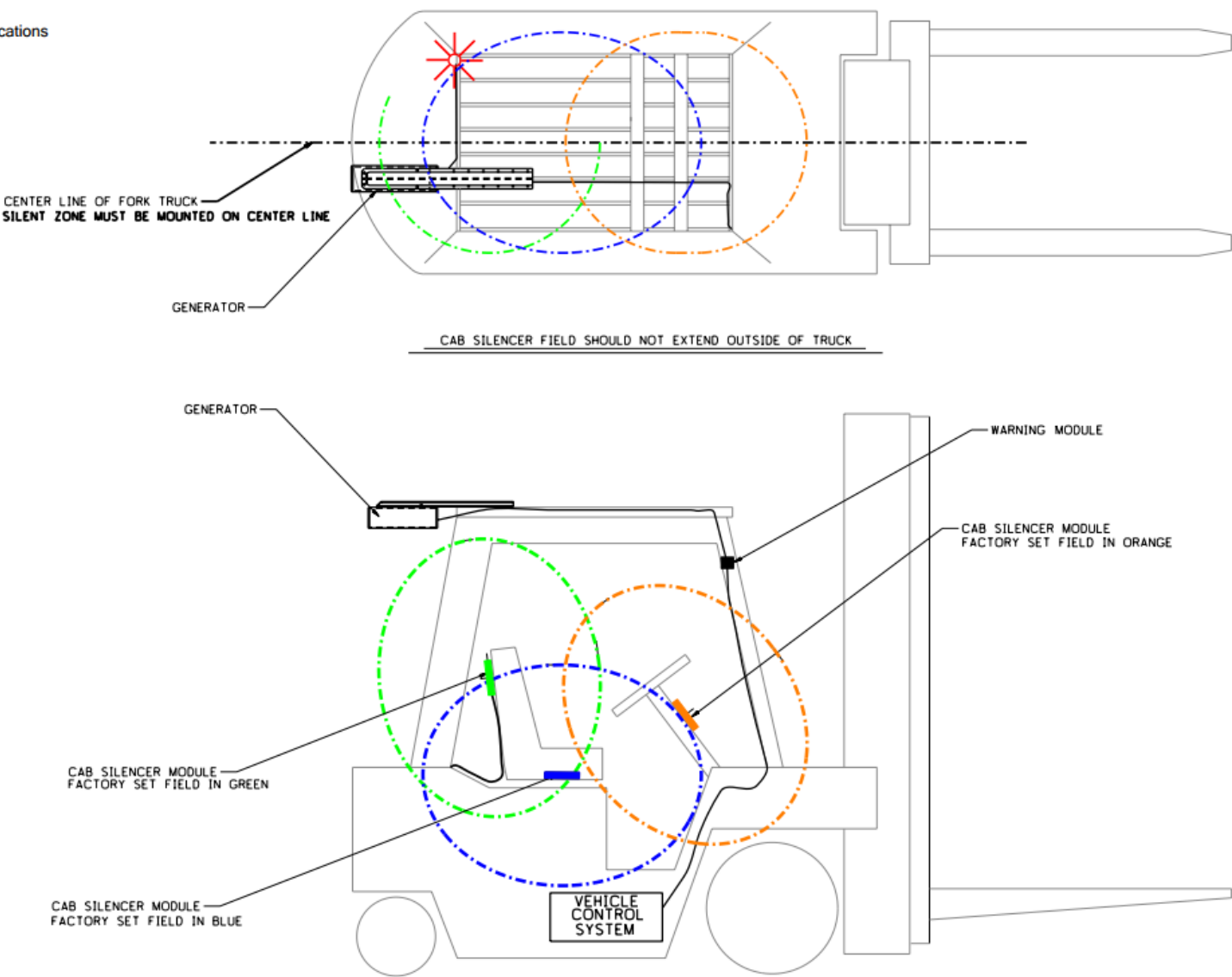


Remove the end caps using a phillips head screwdriver. Install the Generator on top of the overhead guard. **It should be placed as far from the strobe light as possible.** Use the U-Bolts to secure the Generator to the overhead guard.



U-Bolt Assembly

Cab Silencer Locations







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**(B)Definitions.** In this Agreement, “You” and “Your” refer to You as the user of the System. “FEP” “we,” “us” and “our” refer to Frederick Energy Products, 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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