



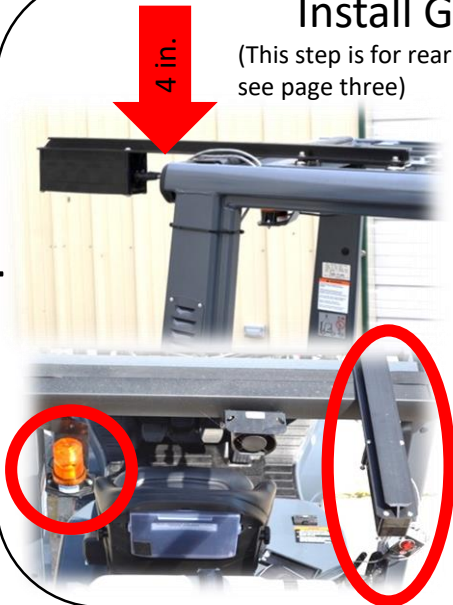
DDAC MFG System Installation Guide

Model #; DDAC-PDS-SYS-2

Step 1

Install Generator

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

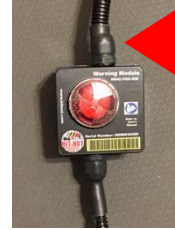


Install the Generator on top of the overhead guard and at least 4" from the frame. **It should be as far from the strobe light as possible.** Use the U-Bolts to secure the Generator to the overhead guard.



Install Warning Module

Step 2



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

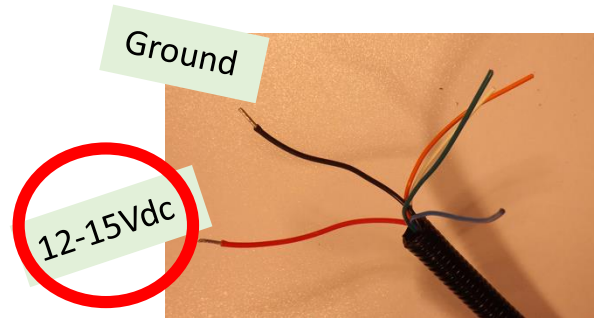


The cable exiting the warning module with the connector goes to the Generator

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

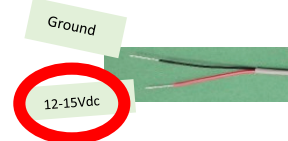
Making the Connection to the Generator



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

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 operators 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

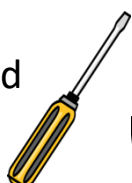
Volume Adjust using Range Adjust Tool



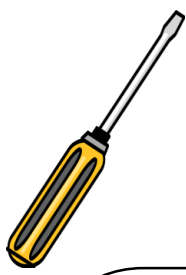
- The clear plastic cover on the Warning Module can be turned to reduce the sound.
- If the sound still needs to be reduced, utilize the range adjust tool (Contact FMI).
- Ensure all other MFGs and PADs within 70ft are off. Power on the range adjust tool within 4ft of MFG. The warning module will sound.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



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



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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'.
- If the range needs to be reduced, utilize the range adjust tool (Contact FMI).
 - Ensure all other MFGs and PADs within 70ft 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 4ft 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. 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 Weathershields 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 Weathershields see Step 9 to adjust Range

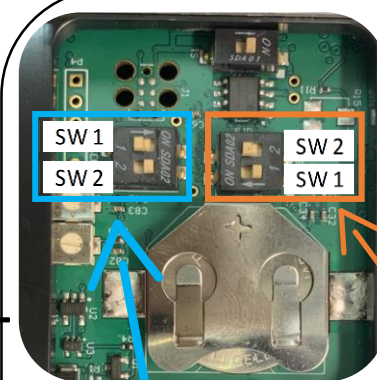


- Remove bottom cover-see step 10
- Have a Pedestrian with a PAD at the desired Danger Zone Limit * Adjust the "PWM" pot with a 3/32" slotted screwdriver. Slowly turn the PWM pot (counterclockwise to decrease and clockwise to increase the Zones) until the danger zone alerts at the desired distance. **Do 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

Alerting Signals

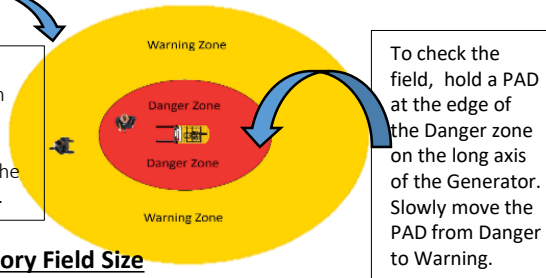
CAM Alert (Truck to Truck) (If Equipped)

- 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.



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

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

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Step One for Alternate 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 Weathershield



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.

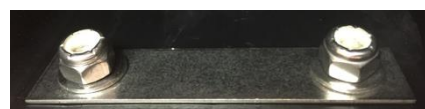


U-Bolt Assembly

Top Mount with Weathershield



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