



DDAC Proximity Detection System Installation Guide (DDAC-PDS-SYS)

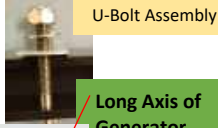
Step 1

Install Generator

(This step shows mounting using the rear mount 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.



Long Axis of Generator should run parallel to long axis of vehicle as shown



Step 2

Install Warning Module



Connection to generator should be pointed up



Place magnet side of the Warning Module to the frame of the forklift 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

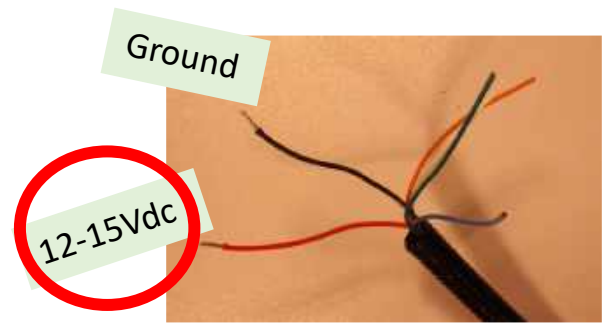


The cable exiting the warning module with the connector goes to the Generator

Note: Cable 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 21" of the Operator's PAD AND 4ft away from the generator. The best location is behind the operators seat. For Mounting Locations Diagram, see page 4.

The Cab Silencer may blind the CAM if installed on the overhead guard.



Step 7

Silent Zone Adjust



- Factory set to ~21 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 FEP).
- 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 7-13 need to be done by a professional.

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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 FEP).
 - 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'.

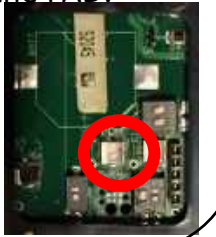
Step 10



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 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 * slowly adjust the "PWM" pot with a 3/32" slotted screwdriver until the danger zone alerts at the desired distance.
- 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 Energy Products 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]

Switches marked with X are used in software version 0-5AF and Later

Switch with X		
SW1	SW2	Function
ON	ON	30 second Realert
OFF	ON	Continuous CAM
ON	OFF	2 sec timeout (Std)
OFF	OFF	60 second Realert

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

Step 13

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.



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.

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!



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



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