Intel Siren Controller

Installation and Configuration Instruction Manual

Please read the following instructions thoroughly and carefully. Improper installation of this equipment can result in you or your passengers sustaining serious injuries. DaMeGa Engineering always recommends installation by a certified installer to minimize any possible risk.

SAFETY INSTRUCTIONS:

This document provides all the necessary information to allow your new product to be properly and safely installed.

Before beginning the installation and/or operation of your new product, the installation technician and operator must read the manual completely. Important information is contained herein and could prevent serious injury and damage.

Proper installation of this product requires the installer to have a thorough understanding of automotive electronics, systems and procedures.

Do not install this product or route any wires in the deployment area of your airbag. Equipment mounted or located in the airbag deployment area will damage or reduce the effectiveness of the airbag, or become a projectile that could cause serious personal injury or death. Refer to your vehicle owner manual for the airbag deployment area. The User/Installer assumes all responsibility to determine proper mounting location, based on providing ultimate safety to all passengers inside the vehicle.

If this product uses a remote device to activate or control this product, make sure that the control is located in an area that allows both vehicle and the control to operate safely in all driving conditions.

If mounting this product requires drilling holes, the installer must be sure that no vehicle components or other vital parts can be damaged by the drilling process. Check both sides of the mounting surface before drilling begins. Also de-burr any holes and remove any metal shards or remnants. Install grommets into all wire passage holes. Do not attempt to activate or control this device in a hazardous driving situation.

Use only soap and water to clean the outer lens. Use of other chemicals could result in premature lens cracking (crazing) and discoloration. Lenses in this condition have significantly reduced effectiveness and should be replaced immediately. Inspect and operate this product regularly to confirm its proper operation and mounting condition. Do not use a pressure washer to clean this product.

For this product to operate at optimum efficiency, a good electrical connection to chassis ground must be made. The recommended procedure requires the product ground wire to be connected directly to the Negative (-) battery post.
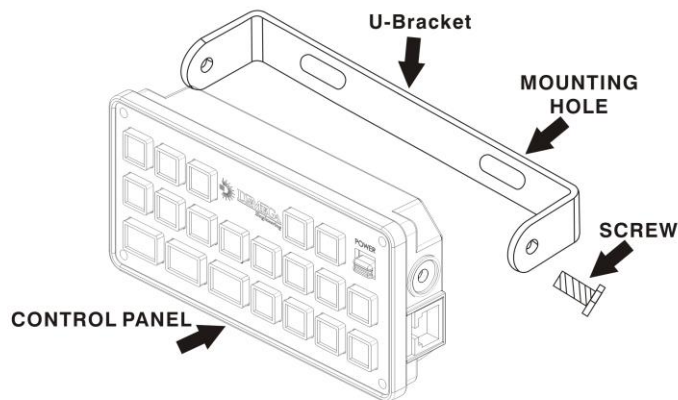
It is recommended that these instructions to be stored in a safe place and referred to when performing maintenance and/or reinstallation of this product.

FAILURE TO FOLLOW THESE SAFETY PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!

Control Head Installation:

The INTELL Siren Keypad is packaged with the U-Bracket installed on the unit. In order to install the bracket onto a surface mount, follow the instructions below. If mounting the control head into a console, skip Step 3.

1. Remove each screw with a Phillips screwdriver from each side of the U-Bracket. Remove the bracket from the control keypad. Set aside the screws, as they are required for Step 5.
2. Locate a suitable mounting surface. Make sure no vital components will be damaged in the following drilling process.
3. Position the bracket on the surface mount and mark the mounting holes, corresponding with the holes on the U-bracket.
4. Using the appropriate screw size, drill the screws through the marked location on the surface, and using the provided hardware, secure the bracket to the mounting surface.
5. Re-attach the control head to the mounted bracket with the factory provided screws, initially removed in Step 2.

Amplifier Mounting:

1. Select a dry location to mount the amplifier.
2. Mount the amplifier in the desired location using 4 screws in the corresponding slots.

Wiring Instruction - Amplifier:

1. Locate the 4-pin wire harness. This harness provides power for the unit, as well as the siren output wires.
2. Plug in the 4-pin harness into the matching slot on the amplifier.
3. Extend the RED wire from the harness to the POSITIVE (+) post on the battery, and fuse at 20 amps.
4. Extend the BLACK wire from the harness to the GROUND post on the battery.
5. Extend the GREEN and WHITE wires, located in the 4-pin wire harness, to the siren speaker.
6. Locate the 2-pin wire harness. This contains POSITIVE and NEGATIVE wiring for auxiliary/lighting control.
7. Extend the RED wire from the harness to the POSITIVE (+) post on the battery. Be sure to fuse appropriately.
8. Extend the BLACK wire from the harness to the GROUND post on the battery.

Auxiliary Wiring Instruction:

1. Locate the 9 pin Terminal Block.
2. Using a flat head screw driver, firmly secure the copper portion of the accessory's POSITIVE wire of the accessory to the desired port.
3. Extend the Ground wire of the accessory/light to the battery GROUND post.

<u>**Wiring Instructions:**</u>

The back of the INTELL Siren power supply is physically labeled, as shown in the diagram. The INTELL Siren functions as an all-in-one control panel. The labels shown on the back of the power supply (A- H) allow for control of vehicle lighting or equipment from the INTELL Siren control head. The port labeled I is to be used as an additional + momentary button.

The siren tones are labeled on the wiring diagram and are the following, Wail, Yelp, Phaser, Horn, Volume Control and Mechanical. These siren tones are already programmed onto the switches shown on the diagram. The volume control button on the panel has three options for controlling the volume of the PA. Press on the left side of the button to decrease the volume and press on the right side of the button to increase the volume.

To control or change the flash patterns of a product, connect the flash pattern wire from the product into the flash mode outlet on the back of the power supply. The outlet is labeled "Flash" on the back of the power supply. Multiple flash pattern wires from different products can be wired into this outlet. The button labeled "Flash mode" on the illustration to the right indicates the corresponding button for this outlet.

Each outlet is rated at 10 amps, so multiple lights can be wired into an outlet, depending on the amperage of the products.

After wiring in products and equipment into the A- H labeled outlets of the amplifier and into the flash mode outlets as desired, connect the outlet labeled "Controller" on the back of the power supply to the RJ45 port of the INTELL Siren control head with the provided RJ45 cable.

 Connect the Microphone cable included to the Microphone Input (labeled) on the back of the power supply.

Make sure to label the buttons on the control head with the provided label stickers, according to how the button was wired. Remember the siren tones are already pre-wired and cannot be changed. These tones are Wail, Yelp, Phaser, Horn, Volume Control and Mechanical.
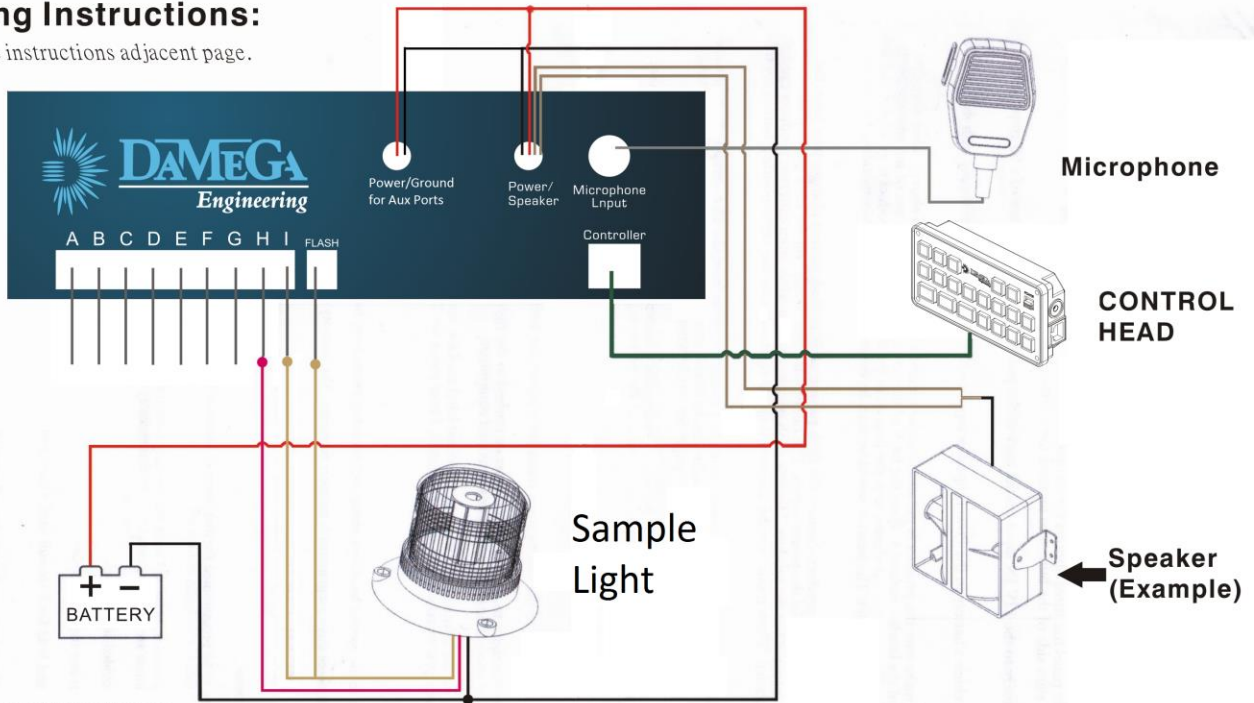
<u>**Applying Memory Function:**</u>

Memory functions can be programmed in the control head after the completion of wiring and mounting of the unit. The Intell Siren control panel features three programmable memory functions. The memory buttons can control as many options as desired.

1.) To program functions on a memory button, make sure the control head is activated and the power switch is on.

2.) Select the modes and buttons desired to be programmed for a specific memory button. Do so, by pressing each button once. If a button is selected by accident, press that button again to turn it off.

3.) After selecting all the desired options/buttons, press and hold the memory button of choice for 3 seconds, until the control head emits a beep signal. This indicates that the selected buttons are now programmed onto that memory button.

4.) Repeat Steps 1-3 to program the other two memory buttons.

5.) If the control head switch is turned off and then reactivated, this will recall the last buttons programmed. This will occur only once. To prevent re occurrence, manually press each selected buttons once to turn them off. This will not affect the memory buttons and functionality.
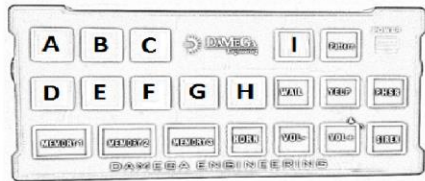
Wiring Instructions:

See instructions adjacent page.

DaMeGa Engineering

A B C D E F G H I   FLASH

Power/Ground for Aux Ports

Power/Speaker

Microphone Lnput

Controller

Microphone

CONTROL HEAD

Speaker (Example)

Sample Light

BATTERY + −

Wiring Instructions:

Labels shown for wiring reference only. Install provided sticker labels after all functions have been assigned and wired

A B C **DaMeGa** I PROG.
D E F G H WAIL YELP PHSR
MEMORY1 MEMORY2 MEMORY3 HORN VOL− VOL− SIREN
DAMEGA ENGINEERING

← **CONTROL HEAD**

Red wire=Positive, 12V power wires
Black wire=Negative, Ground wires
Gold wire=Product flash mode wires
Gray cable=Microphone cable
Brown wire=Indicates speaker wires
Dark Green wire=RJ45 cable(included)

WIRING DIAGRAM