

**ENFORCER™ 6201-IQ
ELECTRONIC SIREN**

**INSTALLATION & OPERATION
MANUAL**



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UNPACKING

After unpacking the unit received, it is **IMPORTANT** to examine it for any damage that may have occurred in transit. If the equipment has been damaged or parts are missing, file a claim **IMMEDIATELY** with the courier stating the damages.

Check **ALL** envelopes and packing slips before destroying them.

INTRODUCTION

The ENFORCER™ 6201-IQ Electronic Siren series uses microprocessor based technology to provide a compact electronic siren system for use in emergency vehicles.

The ENFORCER™ 6201-IQ Electronic Siren series is the ideal choice for undercover applications. The small compact control head and the 18' long harness provide the installation flexibility needed for such applications.

STANDARD FEATURES

SIREN MODE: - There are two available siren tones: **WAIL** and **YELP**. The siren tones can be selected using the toggle switch from the remote controller:

- switch **UP** for **WAIL** tone
- switch **DOWN** for **YELP** tone

MANUAL MODE: - In the **MANUAL** mode the siren makes **AIR HORN**. It is a momentary mode activated by holding down the **AIR HORN** switch on the siren's remote controller.

NOTE: **MANUAL** mode will override the **SIREN** mode

PARK KILL MODE: - This is activated by providing a connection from the park position switch in the vehicle to the park kill input this will automatically interrupt the siren tones if they are engaged, this input is **GND** activated. **THIS DOES NOT KILL THE AIRHORN.**

OPTIONAL FEATURES

PUBLIC ADDRESS: - Allows messages to be broadcasted over the siren speaker. The **P.A.** function will override all other functions (i.e. siren, **MANUAL**, etc.) when accessed using microphone.

WARNING

All devices should be mounted in accordance with the manufacturer's instructions and securely fastened to vehicle elements. The unit should be mounted using permanent installation methods. Do NOT mount the system in a location that will interfere with the air bags. (For safe equipment mounting zones in your vehicle, consult your vehicle manufacturer's recommended guidelines.) It is the installer's responsibility to ensure that the unit, mounting hardware, and electrical wiring does NOT interfere with the air bags, and SRS wiring and sensors.

INSTALLATION & MOUNTING

The ENFORCER™ 6201-IQ series sirens can be mounted in a variety of places. They can be console mounted with #10 screws as shown in figure below..

While installing the unit, refer to the Wiring & Adjustments section on page 4, and the Wiring Diagram on page 5 to ensure proper installation of the equipment.

MOUNTING THE ENFORCER™ 6201

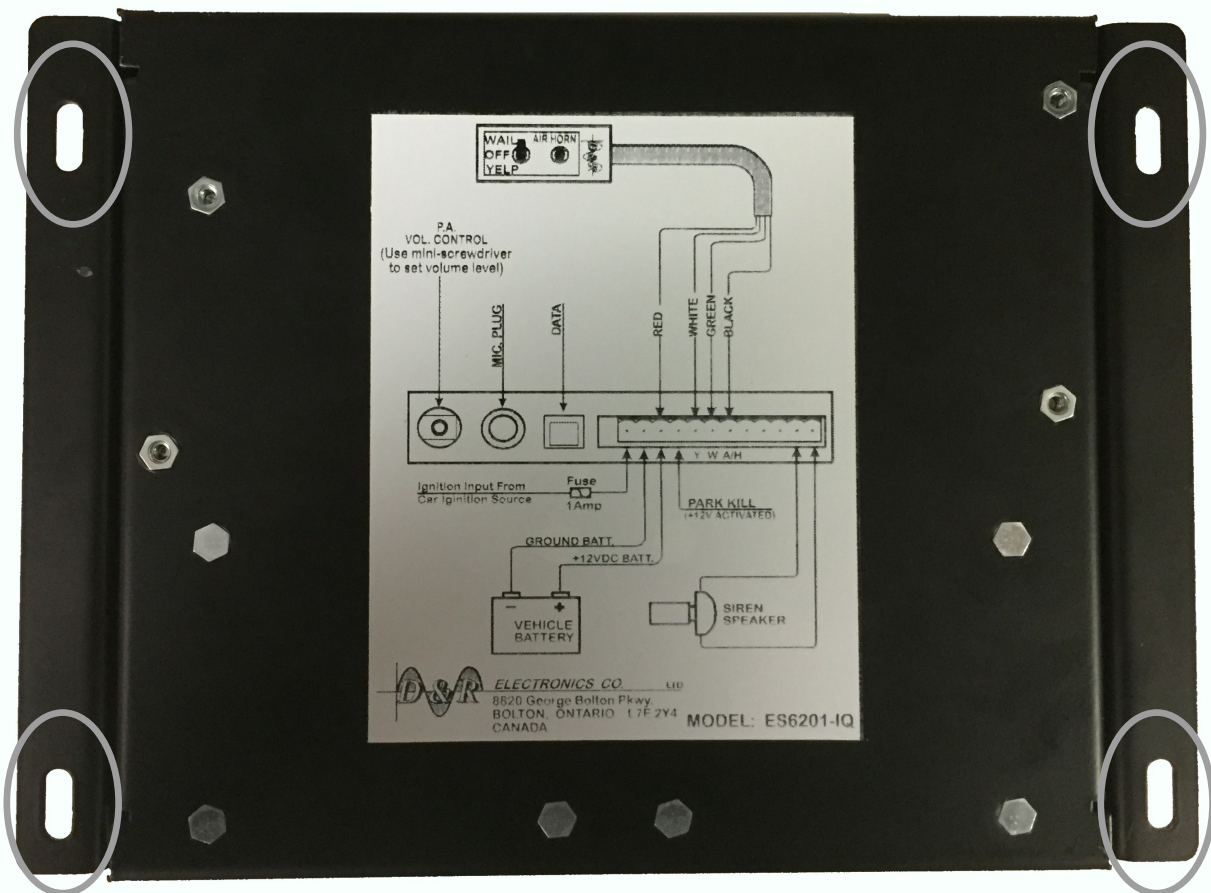


Figure 1: MOUNTING DIAGRAM

ENFORCER™ 6201-IQ:

The unit consists of the siren chassis box, the switch controller and the harness (standard 18' long). The long harness gives the flexibility in choosing the place where the siren will be installed.

The siren can be mounted under the dash, on the transmission hump on the floor, or in the trunk. When installing the unit on the transmission hump, BE CAREFUL. Using long screws or drilling deep can cause damage to the transmission. This unit can also be mounted in a console using a face plate.

The switch controller chassis is small and compact and can be easily mounted under the dash or other out of sight places.

WIRING & ADJUSTMENTS:

While wiring the siren, refer to the Wiring Diagram on page 5 for proper installation and operation of the system.

The harness has the switch controller and the plug factory installed, which will connect with the siren socket.

If, by any reason, the plug is removed from the harness, to properly rewire the plug, strip away approximately 1/4" of insulation off the wire. Insert the wire in the proper hole and tighten the set screw. Ensure that no strands of wire are sticking out of the hole, and that not too much insulation has been stripped away leaving bare wire exposed. This can otherwise result in possible shorting of the system.

DANGEROUS !

Do NOT attempt to operate or test the system before ensuring a SECURE GROUND AND POWER CONNECTION USING A DEDICATED SET OF WIRES FROM THE BATTERY TO THE SYSTEM.

WARNING

Manufacturer's recommendations of wire size and tight connections will provide a longer operating life for components.

Route wiring using grommets and sealant when passing through compartment walls.

Looms, grommets, cable ties and similar installation hardware should be used to anchor and protect wiring and devices.

Particular attention should be paid to the location and method of electrical connection and splices to protect these points from corrosion and loss of conductivity.

Ground termination should ONLY be made to substantial chassis components; preferably the battery.

The user should install a circuit breaker in the supply line to protect against short circuits; preferably one with a 20 Amp rating.

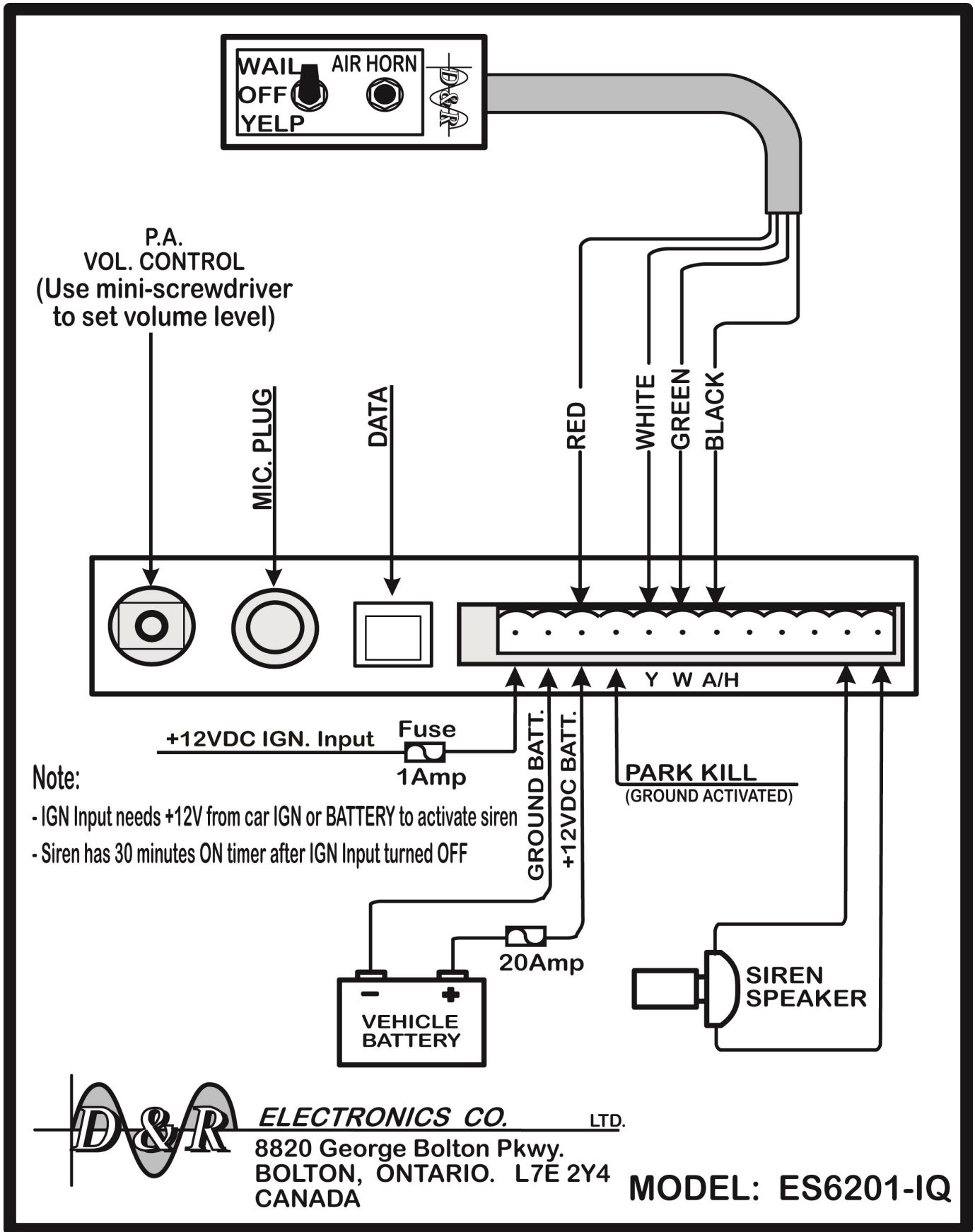


Figure 2: WIRING DIAGRAM (MODEL ES6201-IQ)

12 PIN CONNECTOR:

+12V IGNITION/ +12V SOURCE: To be connected to a +12VDC feed from the car ignition source or other +12V source (ex. battery) . The system will turn ON only when +12VDC is activated for PIN 1. After turning OFF the +12V input, the system will go in countdown mode for 30 min. After that it will turn OFF automatically.

GROUND: To be connected to a solid chassis ground, PDU or the negative terminal of the battery.

+12VDC BATTERY: To be connected to a +12VDC battery source, via an inline 20 A fuse and to the control switch box through 22 AWG RED wire from the harness.

PARK KILL: To be connected to the park switch of the car system (ground activated)

SPEAKER: }
SPEAKER: } These two lines are to be connected to a 100W, 11 Ohm impedance speaker.

WAIL: To be connected to the 22 AWG Green wire from the harness.

YELP: To be connected to the 22AWG White wire from the harness.

AIRHORN: To be connected to the 22 AWG BLACK wire from the harness.

RJ-45 COUPLER: Factory programming.

MIC INPUT: To connect the microphone or microphone extension cable .

P.A VOLUME: Use to adjust the volume for public address system. Small screw driver is needed to adjust volume.

Note:

Curves exist on one side of the connector. They will RESIST reverse plug-ins, but they will NOT PREVENT the reverse plug-ins.



Figure 3: 12 PIN CONNECTOR

MAINTENANCE

The ENFORCER™ 6201 series have been designed to provide trouble-free service. If problems are encountered, please see the Trouble-Shooting guide following below. If the problems persist, contact D&R Electronics for further advice.

D&R Electronics will repair or replace (at manufacturer's discretion) any unit under warranty that is found to be defective with normal use. Units out of warranty can be repaired by D&R for a nominal charge on either a flat rate, or parts and labor basis. Contact D&R for further details.

TROUBLE –SHOOTING

PROBLEM	POSSIBLE CAUSE	PROBABLE SOLUTION
No output.	Siren is not connected to power source. The switch box harness has loose wires. Electronic fuse (20A) is blown.	Ensure secure connection of the 9pin connector. Ensure secure connection of the harness at both ends. Replace fuse with same rating if blown. -fuse location (internal).
Functions work but there is no sound output.	Poor speaker connection. Blown speaker.	Ensure secure connection of speaker wires. Check and replace speaker if necessary.
Siren tone does not operate when it is selected.	Siren is not connected to power source. The switch box harness has loose wires.	Ensure secure connection of the 9pin connector. Ensure secure connection of the harness at both ends.

NOTE: If ANY problem persists, please contact our service department.

SPECIFICATIONS

Input Voltage	11-16 Volts DC
Input Fuse	20 Amp (External)
Power circuit built-in protection.....	Short circuit and reversed polarity
Operating Temperature Ranges	-30°C to +65°C
Standby Current	50mA + 10% during IGNITION input OFF time-out
.....	ØmA after time-out

Siren

Operating Current	10 Amps
Frequency Range	700 to 1640 Hz (nominal)
Cycle Rate	
Wail	20 cycles/min
Yelp	200 cycles/min
Nominal Voltage Output	52V p-p (11Ω load)
Audio Frequency Response	100 – 4000 Hz ± 3dB
Audio Distortion	10% or less
Audio Power	32 watt
Amplifier Output Impedance.....	11 Ohms

MODEL 6201-IQ:

SIREN BOX:

Net Weight	4.76lb
Height	2.0”
Width	8.75”
Depth	6.75”

CONTROL HEAD:

Height:	1.5”
Width	3.5”
Depth	1.75”

WARRANTY

D & R Electronics warrants its new products to be free from defects in material and workmanship, under normal use and service for a period of one year on parts replacement.

This warranty applies only to original purchasers acquiring the product directly from D&R Electronics, or its authorized dealers. Warranty will not be recognized without proof of purchase or bill of sale.

This warranty is not transferable.

The warranty begins on the date of delivery to the first user/purchaser.

This warranty shall not apply to products which must be repaired due to normal wear and tear, negligence, improper installation, abuse, misuse, or which have been altered or modified at a facility other than D & R Electronics, or its authorized depot centers.

Units proved to be defective within the warranty period, based on an examination by D&R Electronics, will be replaced or repaired at D & R Electronics' option. This warranty does not cover travel expenses or labor charges for removal or installation.

Lamps, flash tubes, batteries or other items considered consumables are not covered under warranty.

Any attempt to repair a unit under warranty by anyone else other than a technician authorized by D&R Electronics without the express or written consent of the manufacturer (D&R) will void the warranty.

PRODUCT RETURN POLICY

In order to provide you with faster service, product returns for repair or replacement, must have a **Return Goods Authorization Number (RGA number)**. Please contact our company to obtain a RGA number before you return the product to D & R ELECTRONICS. Write the RGA number clearly on the package. Be sure you use sufficient packing materials to avoid damage to the product being returned while in transit.

D & R ELECTRONICS assumes no responsibility or liability for expenses incurred for the removal and/or the installation of products requiring service and/or repair. Repairing or replacing product is at the discretion of D & R ELECTRONICS.

D&R ELECTRONICS Co. LTD.

CANADA

8820 George Bolton Pkwy.

Bolton, Ontario L7E 2Y4

Tel.: (905)951-9997

Fax: (905)951-0019

USA

2321 Kenmore Avenue

Buffalo, NY, 14225

Toll Free 1-800-538-7338

www.dandrelectronics.com