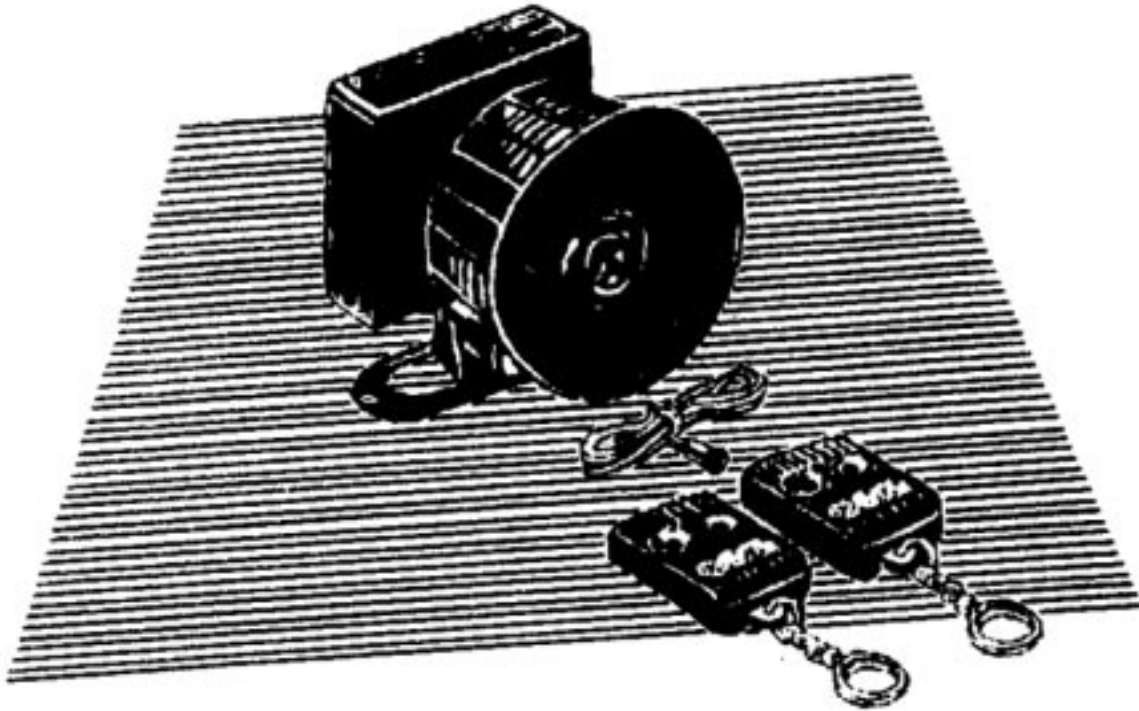


BW-1020 **NEW AVENGER**



INSTALLATION MANUAL

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Please read this Manual carefully before  
attempting to install this system.

## **BEFORE INSTALLING THE BW-1020 NEW AVENGER**

Please read the following notes to help you to properly install this alarm the first time.

- DO read through this installation manual.
- DO write the Serial Number and Remote Control Code into the spaces provided on the Owner's Instruction Card.
- The alarm may arm itself when power is first connected. This is a normal condition.

## **ITEMS SUPPLIED WITH THE BW-1020 NEW AVENGER**

**BW-1020** Receiver Module

**BWS-382** Two 2-Button, Remote Control Transmitters.  
Built-in 6 tone 125 dB, 20 Watt programmable Siren

**BWS-181** Flashing LED

**BWS-12010** Wiring Harness, Fuseholder, and Fuse  
Built-in Piezo Electronic Shock Sensor

## **OPTIONAL FEATURES**

To add these functions to the BW-1020 alarm, order and install the optional modules shown below.

Power Door Lock Module ..... **BWS-340**  
Starter Disable ..... **SPDT** Relay and **BRS-007** Socket  
Glass Break Sensor ..... **BWS-200**  
Radar Field Sensor ..... **MAS-2**  
Backup Battery ..... **BWS-500**

## **INSTALLATION INSTRUCTIONS**

**1. Mount the BW-1020 Receiver and Siren Module** under the vehicle's hood, and where its wiring can be easily installed. Position it so that the mouth of the siren is pointing down. This will stop water, snow, and ice from collecting in the siren.

**At this time . . .**

- A)** Cut the BROWN wire loop on the Receiver module if you want to turn OFF the Current Sensing feature.

***Do Not Mount the Siren Close to Exhaust or Turbocharger Pipes!***

**2. Install any of the optional function modules** ordered for the vehicle, following the installation instructions supplied with them.

**3. Install the Wiring Harness** and connect it to all of the items previously installed, using the wiring diagrams and wiring color codes on other pages in this manual. When routing the harness through the vehicle, be careful to run it where it CANNOT be DAMAGED or SHORTED to ground. Also keep it away from ALL MOVING PARTS of the vehicle and locations where HIGH HEAT can damage the wire insulation. Always protect the harness EVERYWHERE that it goes through holes in a metal panel.

**4. Be sure that the RED wire** of the harness (with the fuseholder) is connected to a CONTINUOUS source of +12 volts, and install the FUSE in the fuseholder. For

non-current sensing installations, this wire may be connected directly to the POSITIVE (+) battery terminal.

**CAUTION!** On vehicles with a small or single-bulb interior lights, or on vehicles with the battery in the trunk, the current sensing feature may not work unless this wire is connected to a point of CONTINUOUS 12 volts at an UNFUSED input to the vehicle's fuse block.

**5. Adjust the Shock Sensor** as follows . . .

- A.** Turn the adjustment screw to its full CLOCKWISE position.
- B.** Slowly turn the adjustment screw COUNTER-CLOCKWISE while firmly slapping various parts of the vehicle body.
- C.** Leave the adjustment screw in the position where the alarm just turns ON with a sharp slap to the vehicle's body.

**6. Proceed with checking** out the rest of the alarm system's functions.

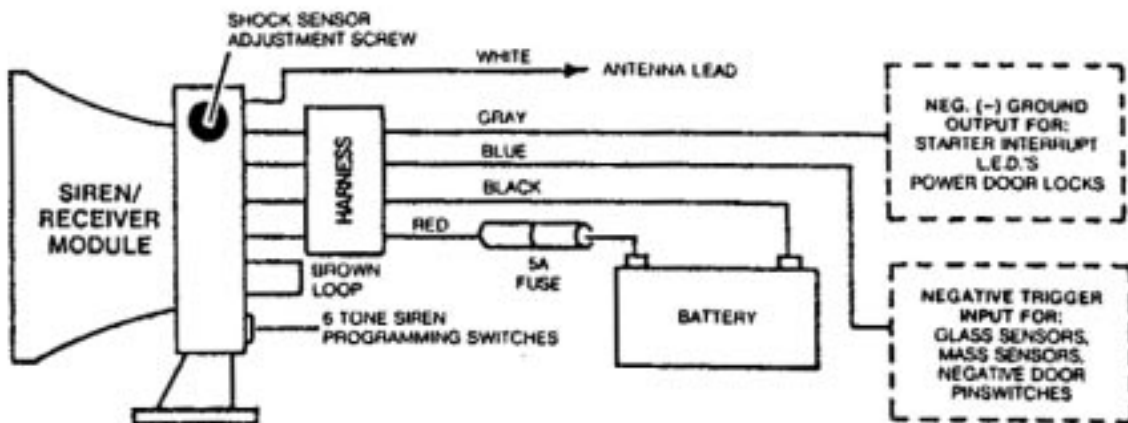
**7. Finish the installation of the BW-1020** alarm by securely fastening all wires in place. Protecting all wiring with plastic wire loom is always recommended.

**8. Siren has 6 tones.** You can program from one to six tones by removing rubber grommet on back of unit and removing or adding jumper contacts.

### SPECIFICATIONS

- Operating voltage . . . . . 13.8 Volts DC, neg ground.  
Digital coding  
per channel . . . . . Pre-coded with one of 500,000.  
Current consumption . . . . . 5mA (max) disarmed.  
10mA (max) armed with 1 LED.  
Current sensing trigger . . . . . 500 mA drop.  
Siren output drive . . . . . 1 Ampere.  
Remote Control transmit frequency . . . . . 310 MHz.

### WIRING DIAGRAM





## **LIFETIME LIMITED WARRANTY**

The Black Widow Division of DLC, Inc. warrants to the original purchaser that the vehicle alarm system purchased will be free from defects in workmanship.

If it is determined that a defect exists, at our option, we will repair defective parts or replace the system. If product is defective within one (1) year from date of purchase, item will be repaired or replaced at no cost to original purchaser. If product is defective after one (1) year from date of purchase, ship defective unit prepaid to Black Widow Division, DLC, Inc. along with \$20.00 (U.S.) cashier's check or money order to cover cost of handling.

**Proof of purchase by the original owner must accompany warranty request before service is rendered.**

This warranty covers normal use. It does not cover damage from alteration, misuse, abuse, accident, improper installation or maintenance. Warranty does not cover transmitter batteries or cases. This warranty gives you specific legal rights and you may have rights which vary from state to state. If you have any questions, contact your authorized Black Widow dealer.



**DLC/U.S.A.**

12753 Moore Street  
Cerritos, California 90701