

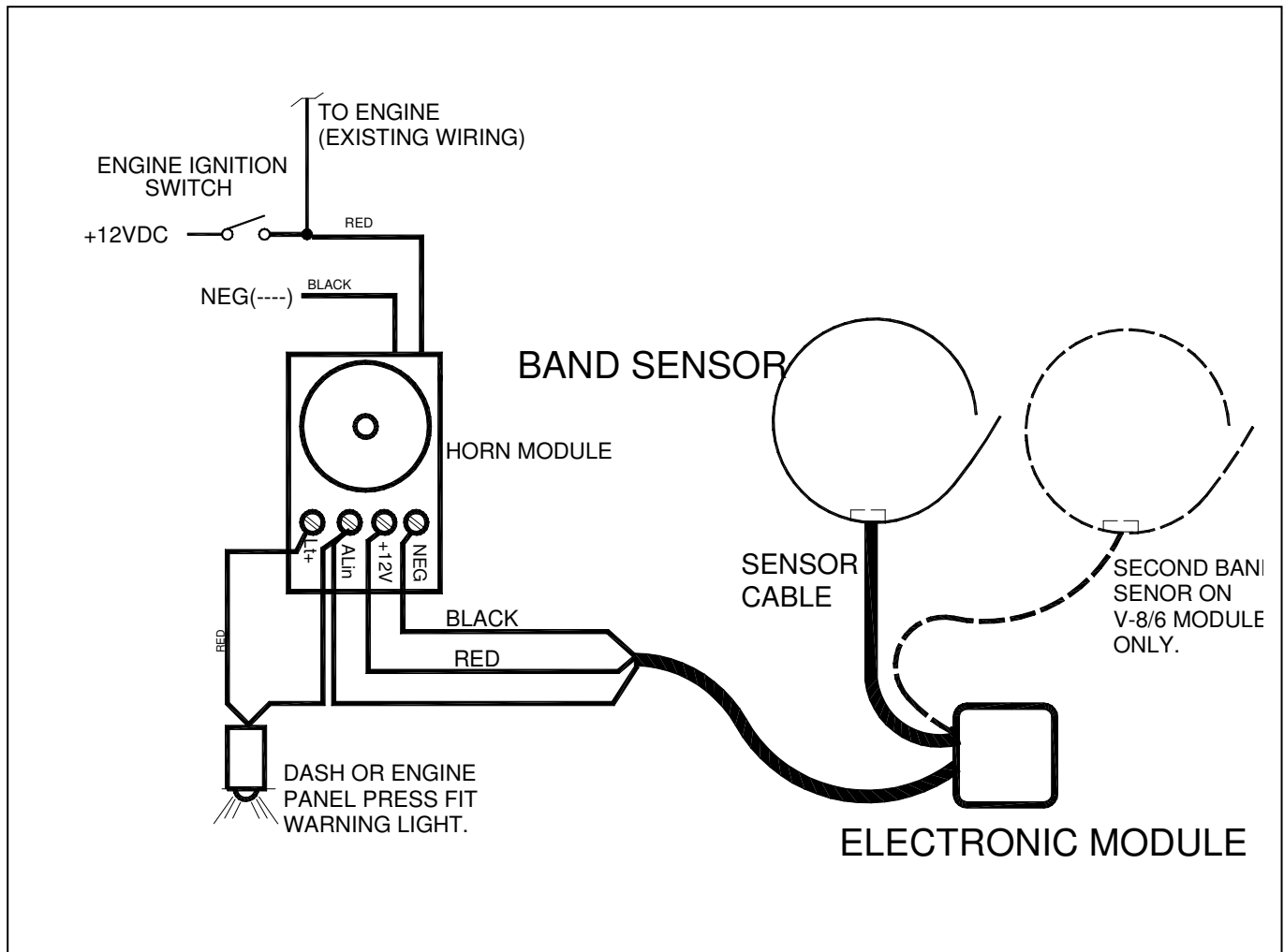
# INSTALLATION OF HORN MODULE

Horn module maybe mount behind engine control panel on sailboats or behind dash on power boats. When selecting a location for horn consider the wires to remote warning light are 14" long. It is recommended that all wiring connections be made before mounting horn module. Connect power (red wire) to switched side of engine ignition switch. In the event of an alarm condition, turning off the ignition switch will silence the alarm. Connect black wire to NEG. See electrical schematic below for connection of raw cooling water failure alarm. After all wire connections have been made, horn module maybe mounted using provided high bond tape. Make sure mounting surface is clean and dry.

## INSTALLATION OF WARNING LIGHT.

Layout location of warning light label. Drill ¼" hole in mounting surface. If mounting on gelcoat fiberglass, run dill backwards through gelcoat. This will prevent chipping of gelcoat surface. Mounting surface should be clean and dry. Affix label and press fit red LED in hole. Make connections as shown on electrical schematic.

Specifications: 103dB horn @ 12VDC, 50mA. Pulsing on/off ~ 1.5Hz.



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# *RAW COOLING WATER ALARM SENSOR INSTALLATION INSTRUCTIONS.*

## SENSOR INSTALLATION.

Sensor band will fit exhaust hose in the range of 2" to 7" diameter. For larger diameter exhaust hose, use extension kit for up to 14" diameter. Locate band down stream of water injection just after existing stainless steel hose clamps. Sensor should be mounted as shown in FIGURE TWO.

At sensor, form band around hose with fingers. Band should be square with hose and not at any angle. Tension band until snug and lock in place. See Picture below. Make ~1" loop in sensor cable for strain relief and secure to exhaust hose using provided nylon wire tie. Alarm modules for V-8/6 engines will have two band sensors. Mount each band on each cylinder bank as described above.

**Insure cable will not snag moving parts such as propeller shaft or belts. Keep cable way from hot exhaust areas before water injection point. Insure cable(s) will not chafe against sharp edges.**

## ALARM ELECTRONIC MODULE

Alarm electronic module contains two LED diagnostic lights. Green light indicates the unit is powered. The red light indicates an alarm condition. The alarm module should be connected to the switched side of engine ignition switch. In the event of an alarm condition, turning off the switch will silence sonic alarm. (See Electrical Connections diagram below)

## TESTING

Upon turning on the ignition switch the Red LED will flash first and then Green LED will be on at the module. This indicates the alarm module is powered and functioning properly. When connected to an alarm panel, the horn will beep also.

## SPECIFICATIONS:

Operating voltage: 10.5 to 15V DC

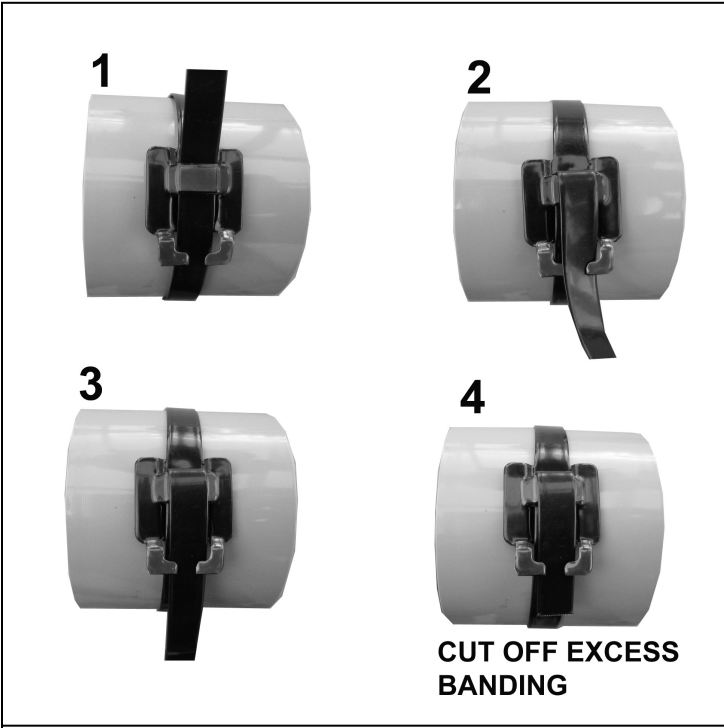
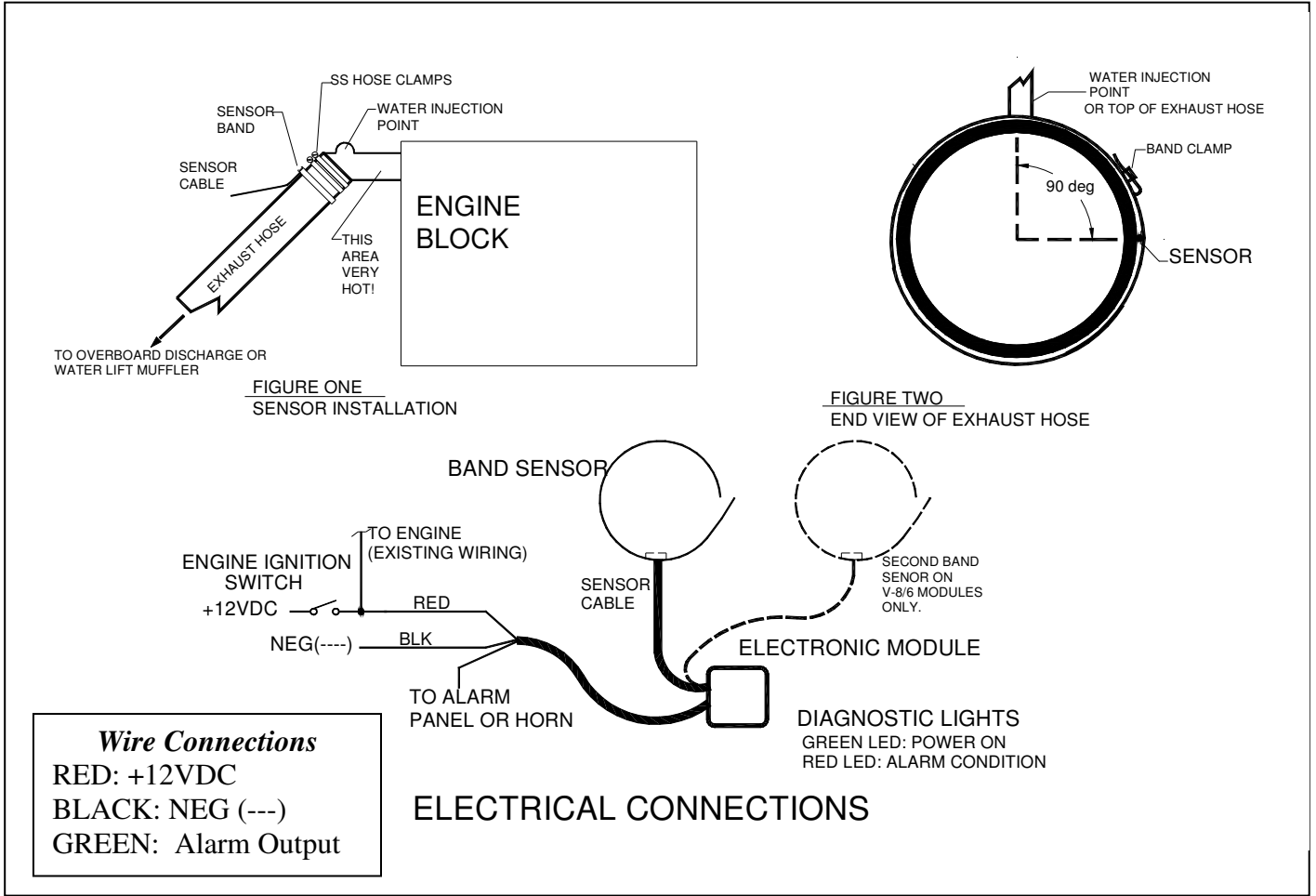
Alarm Setpoint (fixed) 75°C (167°F)

Current draw (alarm module only) : 10mA

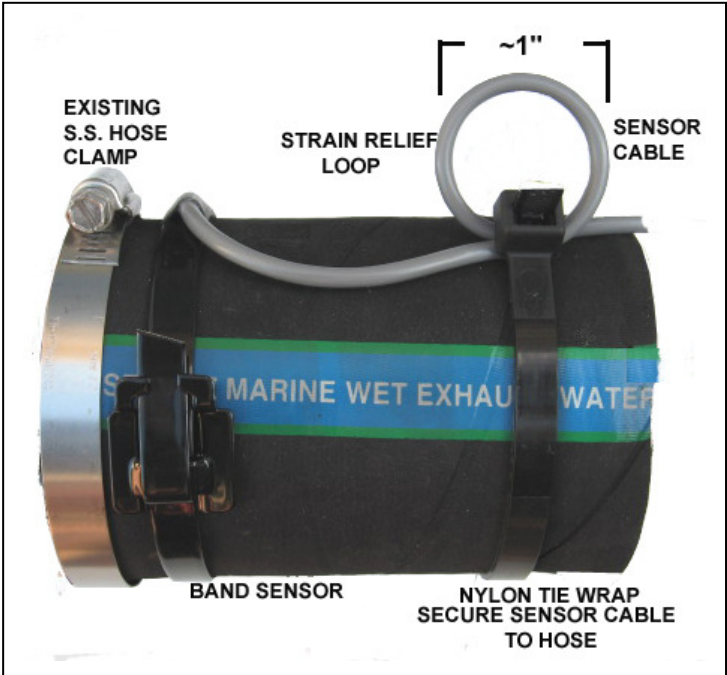
Max Current load on control wire: 0.5A

Switching function alarm condition: Control wire goes low at temperature exceeding setpoint.

Sensor Band: Nylon coated stainless steel with 10K ohms at 25°C (77°F) thermistor.  
Max operating temperature 150°C (300°F)  
Thermal time constant: 12 sec from 70°F to 170°F (conduction exhaust hose to sensor)



**LOCKING BAND CLAMP INSTALLATION**



**TYPICAL INSTALLATION**  
 See "FIG TWO, End view exhaust hose" for Sensor location