

Important Information

Fill this information for future use.

Date of purchase ____/____/____

Place of purchase _____

Invoice/Receipt # _____

Model Number _____

Production Code _____

Notes:

FCC Notice

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

FCC ID: MKARI60

SPECIAL NOTE ON RANGE

The average reception range is approximately ½ mile (800 meters). The actual reception range could be greater or less depending on the location and/or the presence of obstacles between the vehicle and the receiver. The reception range can also be affected by the presence of strong electromagnetic interference from outside sources.



Installation

User's Guide

Tranceiver Information

Optional Accessories

Appendix

Table of Contents

Installation

Component List	3
Planning the Installation	3
Installation Diagram	4
Installation Warnings and Notes	5
Mounting the Component	5
Routing the Antenna Wire	5
Making Connections	5
Color Code Chart	6
Using the T tap Connectors	6

User's Guide

Remote Transceiver Icons and Message Display	7
Transceiver Charging Instructions	7
Transceiver Battery Status	7
Turning Transceiver On / Off	7
Operating Instructions	8
Arm	8
Disarm	8
Arming with SN-5 on	8
Arming without siren	8

Arming without siren or SN-5	8
Panic / Stop Trigger	8
Programming and Customizing Instructions	9
Entering Programming mode	9
Adjusting the clock time	9
Selecting transceiver alert type	10
Selecting Auto/manual arming	10
Selecting siren tone and Alarm duration	11
Adjusting the Accelerometer	11
Encoding the transceiver	12

Additional Information

Sensor Memory display	13
Motocycle battery safeguard	13

Limited Warranty

Limited Warranty

Products manufactured by Aritronix, Ltd are warranted by the company to the original consumer purchaser to be free from defects in workmanship and materials. Should a product be found defective Aritronix shall repair or replace the product or any part of the product which Aritronix agrees is defective without charge during the first 24 months from the date of original purchase provided that the product is returned to Aritronix freight prepaid and accompanied by a copy of the purchase receipt.

This warranty does not apply to any product damaged by accident, physical or electrical misuse or abuse, improper installation, alteration, any use contrary to its intended function, fire, flood, unauthorized repair or any other acts of God.

Aritronix shall not be responsible for removal and/or reinstallation charges or theft of the motorcycle or its contents or any incidental or consequential damages caused by any failure of the product to function properly. Under no circumstances should this warranty or the product covered by warranty be construed as an insurance policy against loss or damage of any kind.

Aritronix neither assumes nor authorizes any person or organization to make any warranties or assume any liability in connection with the sale, installation, or use of this product.

This completes Aritronix warranty and no other warranty exists.

What should you do if you experience a problem with a Scorpio product?

First contact Aritronix, Ltd **[Proof of purchase, installer and motorcycle information will be requested]**. If after assistance from our trained staff it is determined that the Aritronix product may be faulty then you will be provided with detailed information on processing a warranty claim and instructions on how to send the product into our repair office. All warranty claims must contain a return material authorization (RMA). Aritronix will not accept any package that has not been approved for warranty repair/exchange and an issued RMA. **Shipping charges may apply.**

Troubleshooting guide

Problem	Possible Cause	Solution
Will not arm	Key pad is locked	Unlock key by holding button 4 for four seconds
	Power or ground not connected	Verify connection to power lead and ground connection
Turn signals will not flash	Grey wires from GEN-1 not connected or connected to wrong wires	Test wires and change connections to correct wires
Perimeter Sensor not working	Sensor not connected	Check connections
	System activated with wrong button	Activate with button 3 instead of button 1
Ignition Disable does not work	Orange wire from GEN-1 not connected	Connect orange wire from GEN-1 to 12 volt (+) with ignition key on. In most bikes that is the tail light wire
	Ignition disable not connected to correct wire on bike	Refer to options on the ignition disable instruction page. Test selected wire before reconnecting RID-5 wires.

Transceiver Information

Alarm Triggers	14
Range Confirmation Signal	15
Checking Violation Display	15
Transceiver Battery Information	16
Low Battery Stages	16

Optional Accessories Instructions

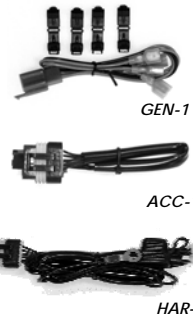
Perimeter Sensor (SN 5)	18
Back up Battery	19
Ignition Disable / Anti hijack Unit	20-21

Appendix

Trouble Shooting guide	a1
Limited Warranty	a2
Important Information / Notes	a3
FCC Information	a3
Special Note	a3

Installation

Components



Component Check List

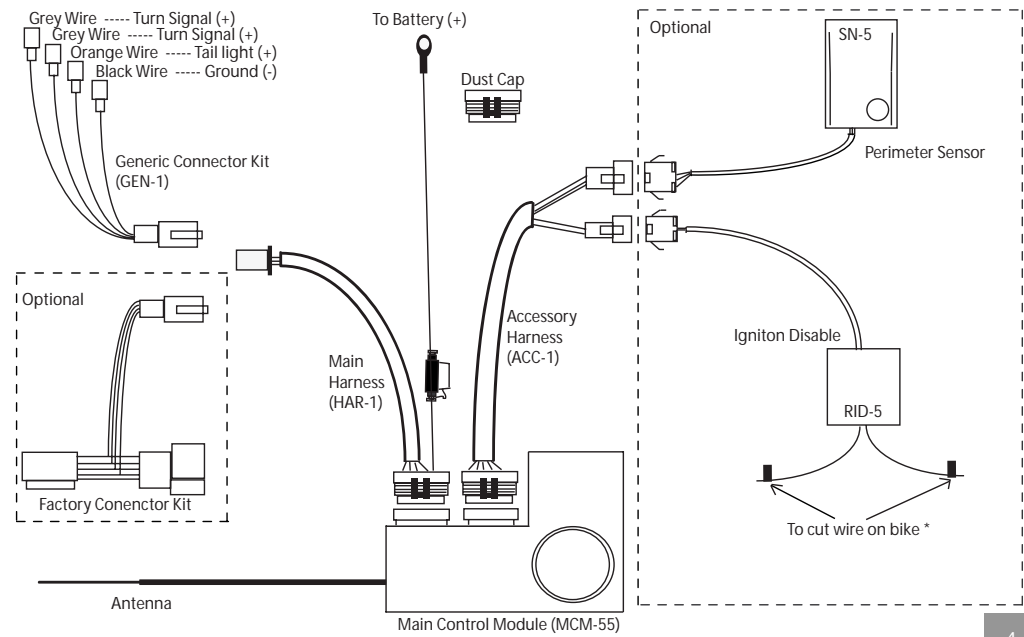
- TRS-6
- MCM-55
- AC Adapter
- GEN-1 (Bag)
- T-taps x4
- ACC-1 (Bag)
- Velcro Pieces x2
- Zip Ties x4
- Dust Cap x1
- HAR-1 (Bag)

Appendix

Planning the Installation

- Check that your motorcycle battery is fully charged.
- Check the layout of the motorcycle for placement of components.
- Verify that no moving parts interfere with the components or their wires.
- Verify that chosen location is not near extreme heat.

----- Installation Diagram -----



Installation Warnings and Notes

Note: Connect the (HAR-1) harness to the MCM only after installation is completed.

Note: When the main harness (HAR-1) is plugged in, the siren should chirp. If the siren does not chirp; check the alarm inline fuse, connection to battery (+), and connection to ground (-).

Note: If the battery is to be removed, disconnect HAR-1 connector first. Reconnect only after battery terminals are reconnected.

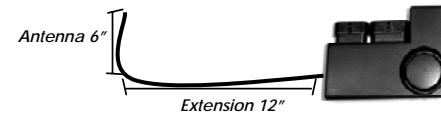
Mounting the Components

Select a suitable location underneath the seat or in a side cover. Mount components using velcro or cable ties. Make sure that the components are not exposed or accessible. While the MCM will work in any position, placing it in a flat position will provide better performance.

Routing the Antenna Wire

For best performance the last 6" of the antenna should:

- o Be as vertical as possible.
- o Be away from metal as much as possible.



Making Connections

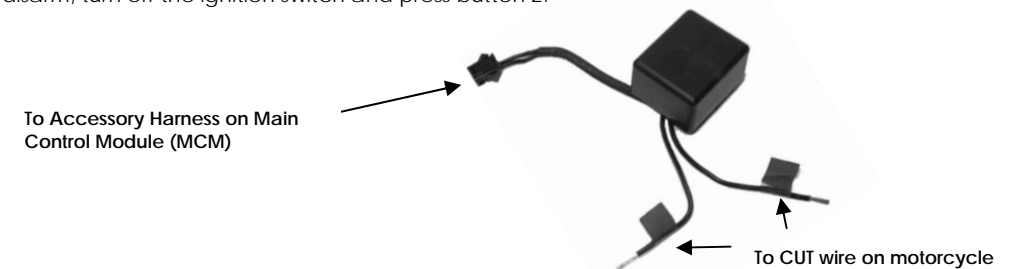
The necessary connector or wires are found under the seat or in the tail section of the bike. Removal of the tail section plastics or side cover might be necessary.

Ignition / Engine Control Wire Options:

- Option #1: Positive lead wire on fuel pump
- Option #2: Positive lead wire on fuel injection system
- Option #3: Positive wire that goes to the ignition fuse in fuse box. This should be either a 10 or 15 amp fuse labeled **IGN**. (Carbureted Bikes Only)
- Option #4: Ground wire from ignition module
- Option #5: Positive wire from ignition module to ignition coil

Operating the Anti-Hijack Feature

While the engine is running, press and hold the transceiver's **button 1** and **button 2** at the same time for 5 seconds. The siren will begin to chirp confirming that the Anti-Hijack feature has been activated. 15 seconds later, the siren will go off continuously, and the engine will shut down. To disarm, turn off the ignition switch and press button 2.



Ignition Disable / Anti-hijack Module (RID-5)

Installation

1. Cut the Ignition / Engine control wire (**refer to options**)
2. Attempt to start bike to test if correct wire is selected. If bike starts the wrong wire is selected. (contact Aritrionix for assistance) If bike does not start, correct wire was selected continue to step 3.
3. When packaged the RID-5 wire ends have been treated with clear silicon to protect the ends from fraying. Make sure they are stripped bare of this before continuing.
4. Connect one end of the cut wire to one of the blue tabbed wires in RID-5 with provided butt connector or any other solid connection option.
5. Connect second end of the cut wire to second blue tabbed wire in RID-5 with provided butt connector or any other solid connection option.
6. Test connections to insure that they are as solid as possible. *
7. Plug the RID-5 connector into the matching connector on the Accessory Harness.
8. Test RID-5 by activating alarm (without perimeter sensor) and try to start bike. If bike starts, please contact Aritrionix for assistance.

* Failure to test for a loose wire could cause an accidental engine cut off.

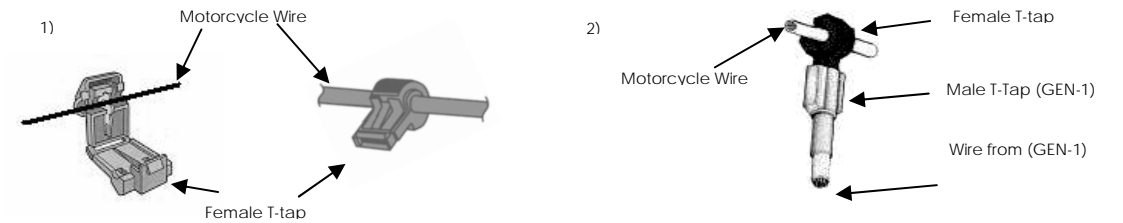
----- Skip this page if using Factory Connector Kit -----

Color Codes: (Color codes are not always valid. Always verify before making connections)

	Ground (-)	Tail Light	Left Turn Signal	Right Turn Signal
Honda	Green	Brown	Orange	Blue
Kawasaki	Black	Red	Green	Grey
Suzuki	Black/White	Brown	Green or Black	Grey
Yamaha	Black	Blue	Green	Brown
Harley Davidson	Black	Blue	Brown	Purple
Ducati	Black	Yellow	White/Black	White/Green

Using the T-tap Connectors and GEN-1 Connector

- 1) Place the female T-tap connector over wire, close and squeeze until it snaps.
- 2) Slip male T-tap connector over hinged end of the female connector to make a connection.





User's Guide




Charging Instructions

The transceiver is pre-charged at the factory and will operate out of the box; we recommend that the transceiver should be charged for at least 10 hours when first operated to insure full life of the battery.

Plug in provided charger into the transceiver. While the transceiver is charging the  icon will scroll from empty to full. When the transceiver is fully charged the  icon will no longer change.


Recharge the transceiver every day to maintain full function.

Battery Status


The LCD will display 3 different  icons to show the transceiver battery status.

Turning the Transceiver On/Off

To turn the transceiver **on**, press and hold button #4 until the transceiver chirps two times.

To turn the transceiver **off**, press and hold button #4 until the transceiver chirps two time followed by another two chirps, the LCD only shows the **88:88** and  icons.

Back-up Battery (BAT-5)

The back-up battery provides the system the ability to transmit information and activate the siren when power is interrupted. If power is ever interrupted while the system is activated the back-up battery will be engaged. The transceiver will receive a  trigger and the siren will sound in 25 second increments. If power is not restored the alarm will continue to transmit and sound for six cycles.

Note: The system has to be correctly installed for at least 12 hours before full function of the back-up battery can be used.

To check the status of the back-up battery, activate the system using button 1.

- If the system chirps **3** times the back-up battery is in good working condition
- If the system chirps **2** times the back-up battery is not fully charged or not installed.

Note: If power is purposely being interrupted, turn ignition key on and off before disconnecting power to limit the back-up to two cycles instead of six.

Note: If the system chirps only 2 times and it has been correctly connected for more the 12 hours, the battery needs replacement. (Contact Arironix for replacement options)

Perimeter Sensor (SN-5)

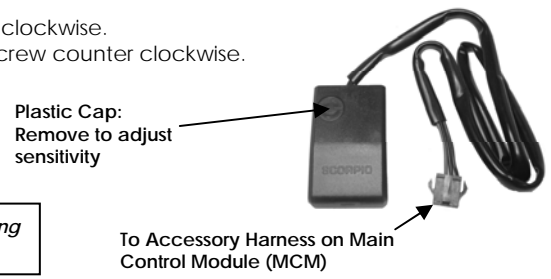
Mounting the SN-5

The Perimeter sensor uses high frequency microwave technology to detect mass density movement around the motorcycle. The signal can transmit through the seat, fiberglass, leather and plastic, but not metal. It is recommended to place this sensor under the seat as close as possible to the center of the motorcycle. With the provided Velcro, you can mount this sensor on top of the battery or any flat surface, making sure that the top side of the sensor is facing upwards. Place the perimeter sensor as faraway from the MCM as possible.

Adjusting the Sensor

Although the sensor is pre set from the factory it may be necessary to adjust the sensitivity to suit your specific application. Remove the plastic cap and turn the adjustment screw.

To increase sensitivity, turn adjustment screw clockwise.
To decrease sensitivity, turn the adjustment screw counter clockwise.



Note: Do not turn sensitivity above half way. Doing so may cause false alarms.

Operating Instructions

The following instructions assume that the transceiver is within range of the motorcycle.

Arm

Press button 1

Screen will show

Siren: Chirp 3 Times
Turn Signals: Flash 1 Time

Arming Without siren (Paging only)

Press button 1 and 3

Screen will show

Siren: Chirp 5 Times
Turn Signals: Flash 1 Time

Disarm

Press button 2

Screen will show

Siren: Chirp 1 Time
Turn Signals: Flash 1 Time

Arming Without Siren or Opt Perimeter Sensor (Paging only)

Press button 2 and 3

Screen will show

Siren: Sounds for a few seconds

Arming With Opt Perimeter Sensor

Press button 3

Screen will show

Siren: Chirp 4 Times
Turn Signals: Flash 1 Time

Panic / Stop Trigger


Press button 3 (When armed)



Siren: Chirp 6 Times
Turn Signals: Flash 1 Time

Note: When pressing button 1, 2, or 3 the icon will flash to confirm the command has been sent.

Programming and Customizing Instructions




Entering Programming Mode

- 1) Press button 4 Twice quickly to enter programming mode


Programmable options will be displayed. The selected icon will flash
 - 2) Press button 4 to scroll through programmable options

 - 3) Press button 1 to select icon and to begin programming

- Note. At any time during programming press button 3 to exit without saving and return to the main screen*

Adjusting the Clock Time

Enter the programming mode. Scroll to the time and press button 1 to select. The screen will display time with the hour flashing. To program follow these steps:

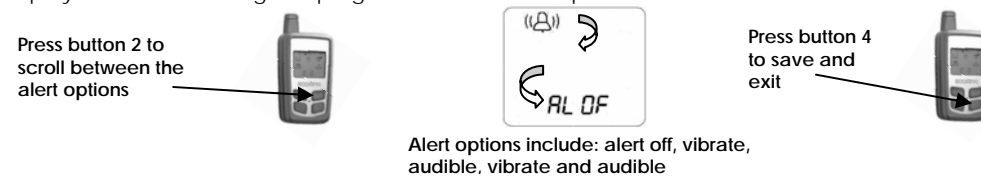
- Press button 1 to toggle between hour and minutes.

 - Press button 2 to adjust hour or minutes

 - Press button 4 to save and exit

- Note. Clock only displays in 24 hour format (Military time)*

Optional Accessories:


- Perimeter Sensor (SN-5)
- Back-up Battery (BAT-5)
- Ignition Disable (RID-5)

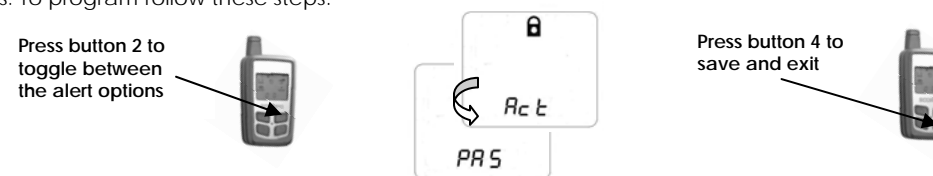
Selecting Transceiver Alert Type (Audible/Silent/Vibrate)

Enter programming mode. The ((A)) icon will begin to flash, press button 1 to select. The LCD will display the current settings. To program follow these steps:



Selecting Auto/Manual Arming (proximity to MCM required)

Enter the programming mode. Scroll to the  icon and press button 1 to enter the arming selection screen. The LCD will display the current setting ((Act] or [PAS]) and the siren will chirp two or three times. To program follow these steps:




When entering the arming program mode, the siren and turn signals will confirm the current mode

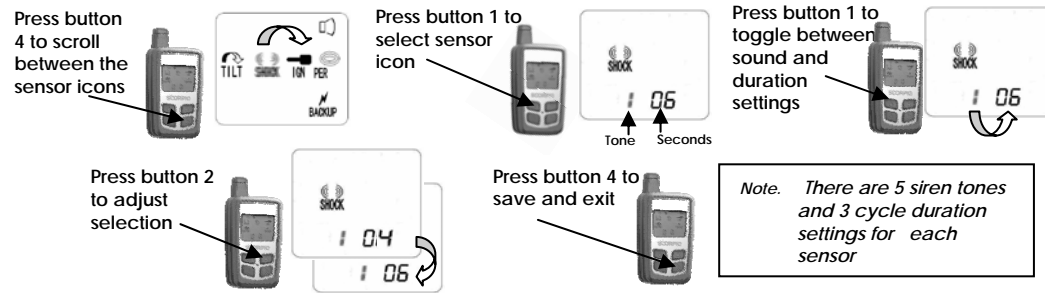
Manual arming (Act) - siren chirps 2 times, lights flash 2 times

Auto arming (PAS) - siren chirps 3 times, lights flash 3 times

(In Auto arming mode the system will automatically arm itself 60 seconds after the ignition is turned off)

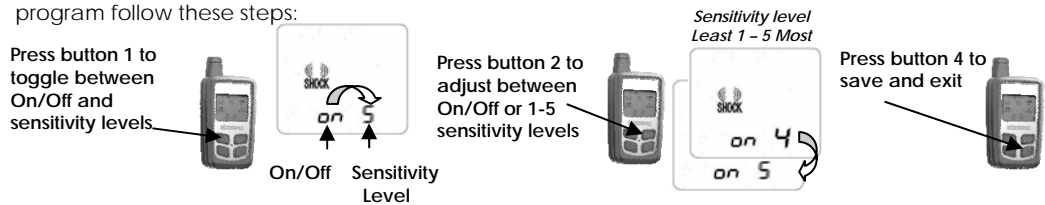
Selecting Siren Tone and Alarm Duration (proximity to MCM required)

Enter the programming mode. Scroll to the  icon and press button 1 to select. The screen will display all of the sensor icons. To program follow these steps:



Adjusting the ADL202 Accelerometer (Impact/Shock) Sensor (proximity to MCM required)

Enter the programming mode. Scroll to the  icon and press button 1 to select. The screen will display the current shock setting, and the siren will chirp 1-5 times to confirm sensitivity level. To program follow these steps:






Transceiver Battery Information


The receiver is automatically turned on whenever the system is armed. To conserve battery the transceiver should be turned off when not in use, or when it's out of range for extended periods of time.


Low Battery Stages

It's recommended that the transceiver be charged daily when in regular used. If the transceiver is not charged daily the following stages will occur.

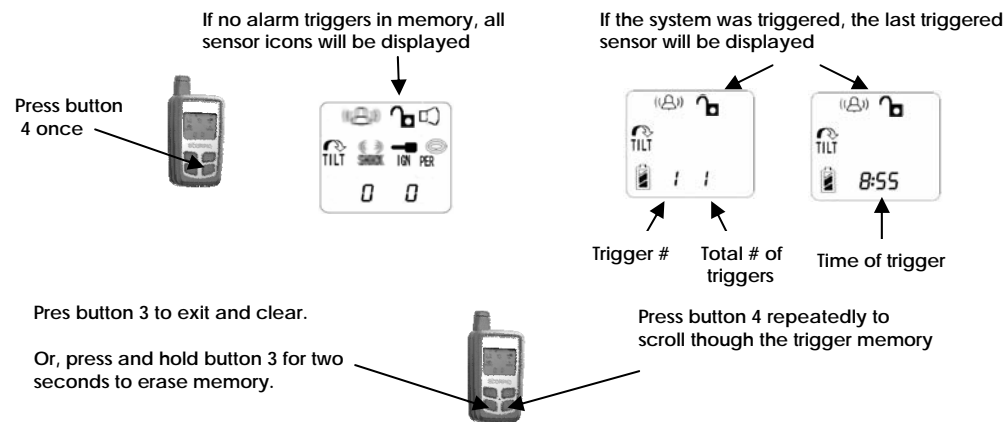
- Low Battery:** When the battery is low the  icon will cycle from 3 bars to 2 bars to 1 bar. The transceiver should be charged as soon as possible.
- Receiver Turns Off:** If the transceiver is not charged, at some point (approximately 7 days) the receiver will shut off. At this stage the LCD displays [CHRG BATT PAGE OFF] and there are no bars in the  icon.
- No Response:** If the battery is not recharged and all power is drained. The transceiver will not respond. The transceiver has to be charged before it can operate the system again. At this stage the LCD displays [CHRG BATT PAGE OFF] and the no-bar icon  will flash.

RCS (Range Confirmation Signal)

If the transceiver is within range of the MCM and the alarm is activated then the LCD will display  icon.

If the transceiver does not receive the RCS; the  icon will not appear.

Checking Violation Display with Time Stamp



Encoding a Transceiver

Note: The transceivers are programmed from the factory. Encoding is only necessary should the transceiver lose its code and will not arm or disarm the security system or if a second or replacement remote is obtained.

1. Unplug HAR-1 from the MCM-55 and plug it back in, the siren will chirp 2 times and the lights will flash 2 times.
2. Within **6 seconds** of plugging in the HAR-1 turn ignition switch "ON" and "OFF" 3 times.
3. If step 2 is done correctly and within the time allowed, the siren will chirp 2 times and the lights will flash an additional 2 times to confirm that the system is in "Learn Mode".
4. Press and hold button 1 until the system chirps 2 times and the lights flash 2 times to indicate that the MCM has learned the code. The transceiver echoes 4 chirps and the LCD displays [LERN DONE] to confirm that the transceiver is encoded.
5. If you are encoding a second transceiver repeat step number 4 for the second transceiver before continuing to step number six.
6. Turn ignition "ON" and "OFF" to exit "Learn Mode".



Additional Information

Sensor Memory Display

When the system is disarmed the turn signals will flash to indicate if there has been an alarm trigger. The lights will flash once to indicate that the system has been disarmed, additional flashes indicate that the following trigger has occurred:

- 1 flash then 1 additional flash = Shock Trigger
- 1 flash then 2 additional flashes = Tilt Trigger
- 1 flash then 3 additional flashes = Perimeter Sensor Trigger
- 1 flash then 5 additional flashes = Ignition Trigger






Motorcycle Battery Safeguard with "sleep mode"

- If the optional perimeter sensor is being used and the alarm is armed for more than **10 days** the system will automatically disable the perimeter sensor.
- If the alarm is armed for more than **30 days**, the system will automatically shutdown its RF capabilities. In this mode the transceiver will no longer be able to operate the system but the system is still armed and protecting the bike.
- To disarm, trigger the alarm, and press button 2.

Transceiver Information

Alarm Triggers

When the system is triggered, the siren will sound and the turn signal lights will flash. The transceiver's LCD will display the following messages:

1. If bike is bumped, the LCD will display  icon. The siren on the bike will sound for 5 seconds and the lights will flash. This cycle will repeat twice.
2. If the perimeter sensor triggers a full alarm cycle, the LCD will display  icon. The siren on the bike will sound for 5 seconds. This cycle will repeat twice (Note: The turn signal lights will not flash for a perimeter sensor trigger).
3. If the bike is tilted, the LCD will display  icon. The siren on the bike will sound for 30 seconds and the lights will flash. This cycle will repeat six times.
4. If the ignition switch is turned on or tampered with, the LCD will display  icon. The siren on the bike will sound for 30 seconds and the lights will flash. This cycle will repeat six times.
5. If the main harness or battery power supply is disconnected (assuming optional Back-Up battery is installed), the LCD will display  icon. The MCM-55 will still continue to sound and transmit from its internal power source. The siren on the bike will sound for 30 seconds. This cycle will repeat six times.
6. The transceiver will continue to flash the triggered icon until any button is pressed.

Note: The transceiver will sound a unique tone to correspond with the triggered sensor