

Limited Warranty

Scorpio-branded security products come with a 2-year (from time of purchase) limited warranty. This includes all components and accessories that are manufactured by Arित्रonix Ltd. The following sections describe the limited warranties.

What is covered by this limited warranty?

This limited warranty covers defects in materials and workmanship in your — our end-user customer's — Scorpio-branded hardware products, including Scorpio-branded accessory products.

What is not covered by this limited warranty?

This limited warranty does not cover cosmetic damage, damage/failure due to acts of God: Problems that result from:

- External causes such as accident, abuse, misuse, or problems with electrical power
- Usage that is not in accordance with product instructions or modifications of the product
- Failure to follow the product instructions
- Problems caused by using accessories, parts, or components not manufactured or approved by Scorpio

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

Firstly contact Arित्रonix, Ltd. using one of the methods listed below. [Proof of purchase, installer and motorcycle information will be requested]. If after assistance from our trained staff it is determined that the Scorpio product may be faulty then you will provide with detailed information on processing a warranty claim. All warranty claims must contain a return authorization number (RA#). Arित्रonix, Ltd. will not accept any package that does not have been accepted for warranty repair/exchange

FCC Notice

This device complies with part 15 of the 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 received, including 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.

For technical assistance with any of the procedures on this manual, or for warranty claims please contact Arित्रonix at.

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SCORPIO

TRS-60

CONTROLLER

INSTALLATION MANUAL AND USER'S GUIDE



Standard Features

- ½ mile 2-Way FM Transceiver
- LCD Water proof / impact resistant remote
- Ultra low power drain MCM
- Built-in accelerometer
- Ignition protection
- Range Confirmation Signal (RCS)
- Remote sensor control
- Battery safeguard with "sleep mode"
- Violation display with time stamp
- Passive arming
- Selectable arming / disarming
- Programmable multi-tone siren
- Remote panic feature

Optional Accessories

- **Perimeter sensor (SN-5)** – A miniature multi stage microwave sensor that detects motion in mass around the motorcycle.
- **Ignition disable and anti-hijack kit (RID-5)** - Allows remote disabling of the motorcycle's electrical system, should someone force you off your bike. Also prevents the engine from being started when the system is armed.
- **Back-up battery (BAT-5)** – A built-in back-up battery feature allowing the siren and transmitter to continue operating when power is interrupted.
- **Factory Connector Kits**–OEM style connectors that simply plug into the motorcycle's factory wiring harness. Connector kits are available for select motorcycle models.

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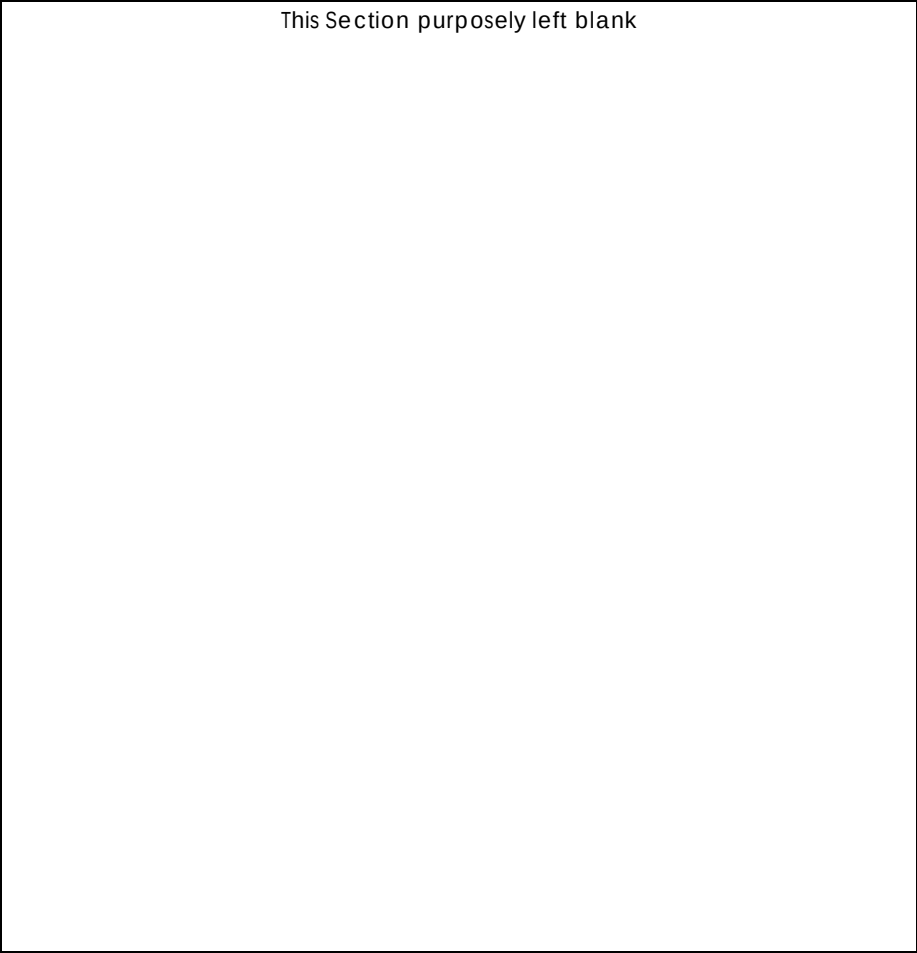
Back-up Battery (BAT-5)

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 full alarm 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 active the system using button #1.
- If the Alarm 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 charge.

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



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

Installation

1. Cut the Ignition / Engine control wire (refer to options below)
2. Attempt to start bike to test if correct wire is selected. If bike starts the wrong wire is selected. (contact Aritrnix 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 cut wire to one of the blue tap wires in RID-5 with provided butt connector or any other solid connection options.
5. Connect second end of cut wire to second blue tab wire in RID-5 with provided butt connector or any other solid connection options.
6. Test connections to insure that they are as solid as possible. *
7. Plug the RID-5 connector into the matching connector on Main Control Module (MCM) Accessory Harness.
8. Test RID-5 by activating alarm (without perimeter sensor) and try to turn on bike. If bike turns on, please contact Aritrnix for assistance.

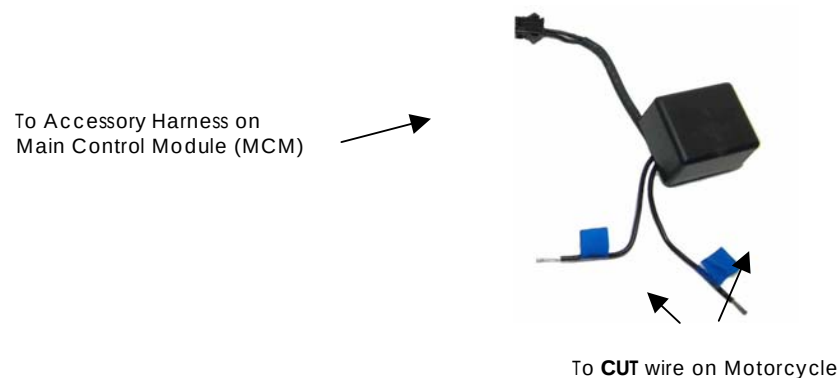
* Failure to test for a loose wire could cause an accidental engine cut off.

The 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** or **START**. (Carbureted Bikes)
Option #4: Ground wire from ignition module
Option #5: Positive wire from ignition module to ignition coil.
Option #6: Wire connected between the Ignition module and engine stop button.

Operating the Anti-Hijack feature

While the engine is running, press and hold the transceivers' **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.



Installation

Components List

Remote Transceiver



Generic Installation Kit (GEN-1)



MCM (Main Control Module)



Accessory Harness



Main Harness (HAR-1)



Planning the Installation

It is very important that before starting the installation of the security system, you carefully read the installation instructions and spend time planning the installation. By planning ahead you will be able to select the best approach in placing, securing and wiring the system to your specific motorcycle. Although the installation is not difficult, there are a number of steps that must be taken for the system to operate properly. We suggest the following steps:

1. Check that your motorcycle battery is fully charged and that all electrical circuits are in good working condition.
2. Check the layout and construction of the motorcycle to decide what space is available to place the components.
3. Verify that no moving parts interfere with the components or their wires.
4. Do not route wires near sharp edges, which could cut wires and cause a short.
5. Do not mount components near extreme heat areas such as exhaust pipes etc.
6. Allow at least an inch or two of slack at all connection points to reduce the chance that a connection will break apart due to vibration.
7. Select a suitable location underneath the seat or in a side cover. Mount the MCM using Velcro or cable ties. Make sure that it is not exposed or easily reached.

Mounting the Components

Select a suitable location under the seat or in a side cover. Mount the MCM using Velcro or cable ties. Make sure that it is not exposed or easily reached.

Routing the Antenna Wire

The MCM includes an 18" antenna wire. The first 12" is a coaxial wire; the remaining 6" is the reception antenna wire. When routing, try to avoid running the antenna along or near metal. For best performance, have the antenna wire as **vertical as possible** and exposed.

Wire Connections

Note: All Connectors are unique and will only fit the appropriate component one way.

The MCM is equipped with two connectors. One is for the main harness (HAR-1) and the other is for the optional accessories.

Accessory Harness

Plug in the accessory harness to the matching connector on the MCM. If no options are being used, plug in the supplied dust cover.

Main Harness

Note: If the optional factory connector kit is being used, please disregard this section of the instructions and refer to the instructions supplied with the factory connector kit.

The main harness consists of two harnesses. One is labeled (HAR-1) and the second is labeled (GEN-1). Plug in the white 4 pin connector from the (HAR-1) into the matching 4 pin connector from the (GEN-1). The (HAR-1) also has a waterproof connector that plugs into the MCM. The wires should be connected as follows:

HAR-1

Black wire with fuse and ring terminal – To battery Positive (+).

GEN-1

Black wire – To ground (-).

Grey wire – To turn signal power wire (Left).

Grey wire – To turn signal power wire (Right).

Orange wire – To tail light wire or any other wire that is hot (+) when ignition is "ON"

(NOTE: this is an input to the alarm this connection is not designed to flash the tail light).

Color Codes:

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

SCORPIO

Optional Accessories

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 Perimeter sensor as far away as possible from the MCM

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.

1. Stand at least 10' away from the motorcycle and arm the system.
2. Walk towards the motorcycle and try and lean over the top of it. Once the sensor detects movement the siren will begin to chirp slowly. If you back away from the motorcycle the siren will stop chirping. If you continue to move closer to the motorcycle the siren will start to chirp faster and faster and then go into a full alarm.
3. Sensitivity can be adjusted by removing the plastic cap and tuning the adjustment screw. To increase sensitivity, turn adjustment screw clockwise. To decrease sensitivity, turn the adjustment screw counter clockwise.
4. The Perimeter sensor has an internal tuning control, which has been set at the factory. This tuning control should only be changed if the sensor can not be properly set as described in #3 above, please call Artronix' technical support.

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

Plastic Cap :
Remove to adjust
sensitivity



Setting Clock Time

1. Enter the programming mode.
2. Press button #4 repeatedly until the **88:88** icon begins to flash.
3. Press button #1 to select and enter clock setting mode.
4. Press button #1 to scroll through 'hour', 'minute', 'am/pm' settings. The selected item will be flashing.
5. Press button #2 to adjust the setting of the selected item.
6. Press button #4 to save setting and exit, or press button #3 to abort.

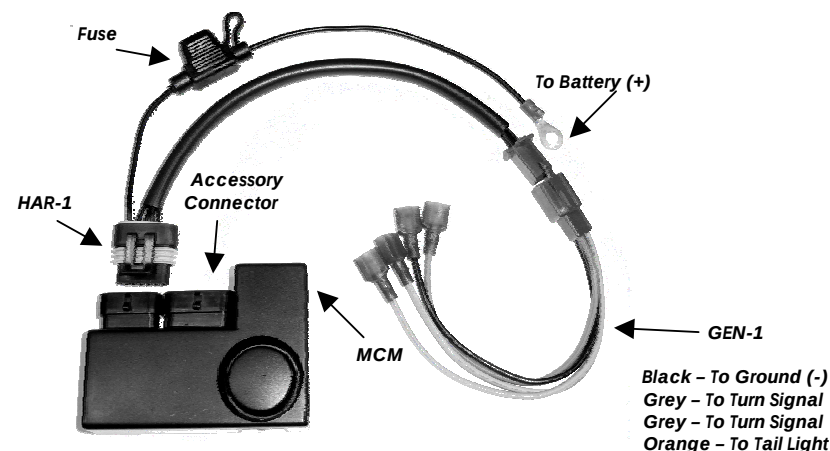
Encoding a Transceiver

Note: Transceivers are programmed from the factory. Encoding is only necessary should the Transceiver loses its codes 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 and plug it back in, the siren will chirp 2 times and the lights will flash 2 times.
2. Within **6 seconds** turn ignition switch "ON" and "OFF" 3 times.
3. If step 3 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.
5. The Transceiver echoes 4 chirps and the LCD displays [LErn donE] to confirm that the Transceiver is encoded.
6. Turn ignition "ON" and "OFF" to exit "Learn Mode"

This Section purposely left blank

Connections

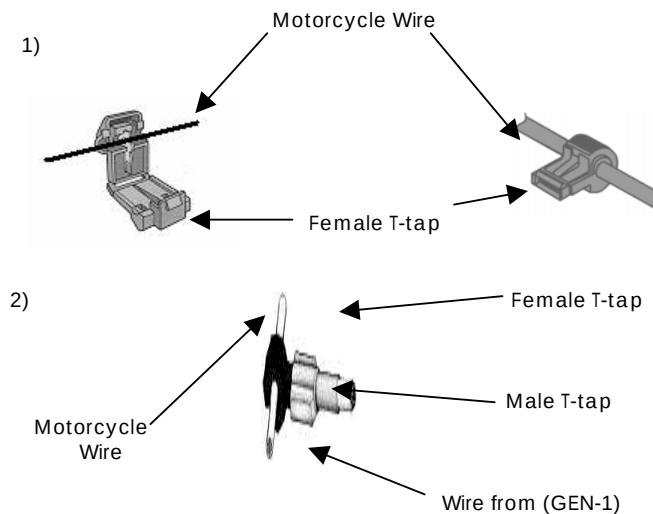


Note: Connect the (HAR-1) harness to the MCM only after installation is completed. If the battery is to be removed, disconnect this connector first. Reconnect only after battery terminals are reconnected.

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

Using the T-tap Connectors

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



User's Guide

Remote Transceiver Icons and Message Displays



Transceiver Charging Instructions

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

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

Recharge the transceiver every day to maintain full function.

Transceiver Battery Status

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

Selecting Auto/Manual Arming

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:

1. Press button 2 to toggle between the alert options



2. Press button #4 to save and exit



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

- Manual arming- siren chirps 2 times, lights flash 2 times
- Auto arming- siren chirps 3 times, lights flash 3 times (In this mode the system will automatically arm itself 60 seconds after the ignition is turned off)

Selecting Siren Tone and Alarm Duration

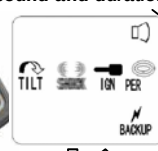
Enter the programming mode. Scroll to the  icon and Press Button #1 to select. The screen will display all of the sensor icons. To program follow these steps:

1. Press button 4 to scroll between the sensor icons



2. Press button 1 to select sensor icon

3. Press button 1 to toggle between sound and duration



There are 5 siren tones and 3 cycle duration settings for each sensor

5. Press button 4 to save and exit



Tone
Duration
In
Seconds

4. Press button 2 to adjust

Adjusting the ADL202 Accelerometer (Impact/Shock) Sensor

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:

1. Press button 1 to toggle between On/Off and sensitivity levels



2. Press button 2 to adjust. Siren will chirp to confirm sensitivity level 1-5



On/Off Sensitivity Level

3. Press button 4 to save and exit



To test sensitivity bump motorcycle while in sensitivity adjustment mode, a siren chirp will indicate an alarm trigger

Programming Instructions

There are two types of programming mode:

- 1) Programming the Transceiver- To program the transceiver the MCM does not have to be installed or be within range. The programmable modes for the Transceiver are:
 - Transceiver Alert Type (Audible/Silent Vibrate).
 - Alarm Clock.
 - Clock.
- 2) Programming the MCM- To program the MCM the system must be **installed, with in range, and in the disarmed mode**. The programmable modes for the MCM are:
 - Auto/Manual Arming.
 - Siren Tones and Siren Duration.
 - Adjusting ADL202 Accelerometer (impact/shock sensor).

Entering Programming Mode

Follow the steps below to enter the programming mode:

1. Press button 4 twice to enter programming mode

2. Available programmable options will be displayed. The selected icon will flash

3. Press button 4 repeatedly to scroll through the programmable icons

4. Press button 1 to select icon and to begin programming

NOTE:
Press button 3 to exit without changing the setting or saving

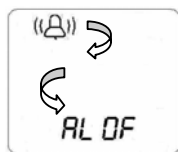
Note. At any time during programming press button # 3 to exit without saving and return to the main screen

Selecting Transceiver Alert Type (Audible/Silent Vibrate)

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



1. Press Button 2 to scroll between the alert options



Alert options include: alert off, vibrate, audible, vibrate and audible



2. Press button 4 to save and exit

Operating Instructions

The following instruction assumes that the transceiver is with in range of the motorcycle.

Arm

1. Press button #1, siren chirps 3 times and the turn signal lights flash 1 time.
2. The Transceiver echoes 3 chirps and the LCD displays  and  and PERIMT OFF icons.

Disarm

1. Press button #2, siren chirps 1 time and lights flash 1 time.
2. The Transceiver echoes 1 chirp and the LCD displays  icon.

Arming With Optional Perimeter Sensor

1. Press button #3, siren chirps 4 times and turn signal lights flash 1 time.
2. The Transceiver echoes 4 chirps and the LCD displays  ,  icons.
3. The system is armed but the Perimeter Sensor is disabled.

Arming Without Siren / Paging Only

1. Press buttons #1 and #3 at the same time, siren chirps 5 times and the turn signal lights flash 1 time.
2. The Transceiver echoes 5 chirps and the LCD displays  ,  and  icons.
3. The system is armed but the siren and turn signal lights are disabled for a silent paging only alert.

Arming Without Siren or Perimeter Sensor (optional) / Paging Only

1. Press buttons #2 and #3 at the same time, siren chirps 6 times and the turn signal lights flash 1 time.
2. The Transceiver echoes 6 chirps and the LCD displays  ,  ,  and PERIMT OFF icons.
3. The system is armed but the siren, turn signal lights and perimeter sensor are disabled.

Panic/ Stop Trigger

1. When system is armed press button #3 for Panic feature. (panic feature will sound siren for a few seconds, drawing attention to your bike)
2. Pressing button #3 during an alarm trigger stops the alarm cycle but keeps the system armed.

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 displays  icon.
2. If the bike is tilted, the LCD displays  icon.
3. If the ignition switch is turned on or tampered with, the LCD displays  icon.
4. If the perimeter sensor triggers a full alarm cycle, the LCD displays  icon.
(Note: The turn signal lights will not flash for a perimeter sensor trigger).
5. With the optional back up system installed, the LCD displays  icon if the main harness or battery power supply is disconnected. The MCM will still continue to sound and transmit from its internal power source.
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

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

RCS (Range Confirmation Signal)

If the Transceiver is within range of the MCM the LCD displays  icon

If the Transceiver does not receive the RCS signal the  icon will not appear.

Motorcycle Battery Status

When the voltage on the motorcycle battery drops below 11.2 volts The LCD displays  icon.

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 21 days, the system will automatically disable the systems receiver. 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 the #2 button.

Locking the Transceiver's buttons

To "lock", press button #4 for 2 sec. The Transceiver will beep and buttons will lock

To "unlock", press button #4 for 2 sec. The Transceiver will beep and buttons will unlock.

Turning the Transceiver On/Off

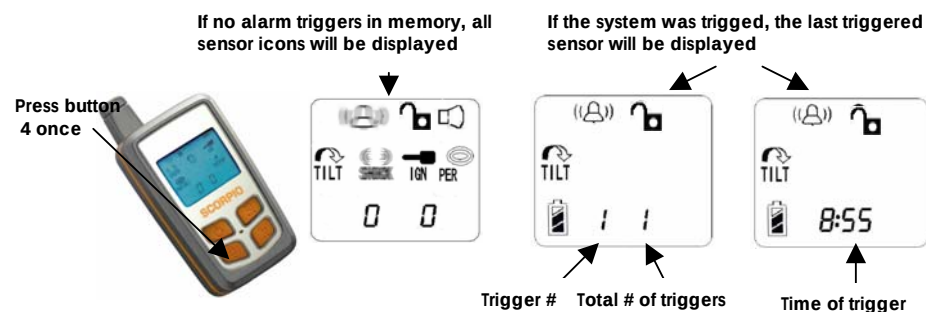
To turn "off", press button #4 for 4 seconds. The Transceiver will beep two times to indicate that the unit has been turned "off".

To turn "on", press button #4 for 4 seconds. The Transceiver will beep two times to indicate that the unit is turned back "on".

Note: When the Transceiver is in the "Off" mode the clock will still be displayed

Checking Motorcycle Status and Violation Display with Time Stamp

1. Press button #4. The back light and the memory screen will be displayed. If the alarm was not triggered, all the sensor icons will come on and the # 0 0 will be displayed.
2. If there was an alarm trigger, the last triggered sensor will flash. Press button #4 repeatedly to scroll through all the triggered sensors in the Transceiver's memory.
3. The alternating numeric display shows the current trigger, numbering of triggers in memory, and the time the trigger occurred. For Example:  [03 05] + [A 8:55] means the tilt sensor was triggered. It was the 3rd sensor violated out of a total of 5 alarm triggers and the event occurred at 8:55am.
4. Press button #3 to exit.
5. To clear memory, press and hold down button #3 for 2 seconds.



Press button 3 to exit and clear.
Or, press and hold button 3 for 2 seconds to erase memory.

