SR-i900 Series
**Important Information**

<table>
<thead>
<tr>
<th>Date of purchase</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Place of purchase</td>
<td></td>
</tr>
<tr>
<td>Invoice/Receipt #</td>
<td></td>
</tr>
<tr>
<td>Model Number</td>
<td></td>
</tr>
<tr>
<td>Production Code</td>
<td></td>
</tr>
<tr>
<td>Notes</td>
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</table>

**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:**

- TRS-9  ARIMKF50
- MCM-9  ARIMKF51

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**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.
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 12 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

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will not arm</td>
<td>RFID antenna not connected</td>
<td>Verify connection from MCM to RFID antenna</td>
</tr>
<tr>
<td></td>
<td>Power or ground not connected</td>
<td>Verify connection to power lead and ground connection</td>
</tr>
<tr>
<td></td>
<td>Orange wire not connected</td>
<td>Verify connection to 12 volt wire with key on. (tail light on most bikes)</td>
</tr>
<tr>
<td>Turn signals will not flash</td>
<td>Grey wires from GEN-1 not connected or connected to wrong wires</td>
<td>Test wires and change connections to correct wires</td>
</tr>
<tr>
<td>Perimeter Sensor not working</td>
<td>Sensor not connected</td>
<td>Check connections</td>
</tr>
<tr>
<td></td>
<td>System set on default with sensor off</td>
<td>Enter Programming mode and change default</td>
</tr>
<tr>
<td>Ignition Disable does not work</td>
<td>Orange wire from GEN-1 not connected</td>
<td>Connect orange wire from GEN-1 to 12 volt (+) with ignition key on. In most bikes that is the tail light wire</td>
</tr>
<tr>
<td></td>
<td>Ignition disable not connected to correct wire on bike</td>
<td>Refer to options on the ignition disable instruction page. Test selected wire before reconnecting RID-5 wires.</td>
</tr>
</tbody>
</table>

### Manual Override Procedure

- **Programming Personal Override Code**: Enter Programming Mode, Select number of flashes for Code, Using Code in case of lost remote

### Transceiver Information

- **Alarm Triggers**: Range Confirmation Signal, Checking Violation Display, Transceiver Battery Information
- **Low Battery Stages**: 17

### Optional Accessory Instructions

- **Perimeter Sensor (SN 5)**: 19
- Back up Battery (BAT-5): 20
- Ignition Disable / Anti-hijack Unit: 21-22

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- Troubleshooting guide: a1
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- Important Information / Notes: a3
- FCC Information: a3
- Special Note: a3
Components

Component Check List
- TRS-9
- MCM-9
- RFID antenna
- AC Adapter
- GEN-1 (Bag)
- T-taps x4
- ACC-1 (Bag)
- Velcro Pieces x2
- Zip Ties x4
- Dust Cap x1
- HAR-1 (Bag)

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

- Connect the (HAR-1) harness to the MCM only after installation is completed. Make sure remote is close to the bike to avoid a trigger. *** Turn Signal wires will pulse 12V. If your turn signals are LED based, use caution when installing or contact Aritronix Support for assistance***

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 (-).

- 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.
- Place MCM as flat as possible to achieve best performance.
- Place RFID antenna under seat or tail section, do not choose a location that is covered with metal.

Routing the Antenna Wire

For best performance the last 6¨ of the antenna should:
- Be as vertical as possible.
- 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 3 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 on page 22).
2. Attempt to start bike to test if correct wire is selected *. If bike starts the wrong wire is selected (contact Aritronix 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 Aritronix for assistance.

* Test this feature with the remote at least 7-10 feet away from the bike.
** 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)

<table>
<thead>
<tr>
<th>Motorcycle</th>
<th>Ground (-)</th>
<th>Tail Light</th>
<th>Left Turn Signal</th>
<th>Right Turn Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honda</td>
<td>Green</td>
<td>Brown</td>
<td>Orange</td>
<td>Blue</td>
</tr>
<tr>
<td>Kawasaki</td>
<td>Black</td>
<td>Red</td>
<td>Green</td>
<td>Grey</td>
</tr>
<tr>
<td>Suzuki</td>
<td>Black/White</td>
<td>Brown</td>
<td>Green or Black</td>
<td>Grey</td>
</tr>
<tr>
<td>Yamaha</td>
<td>Black</td>
<td>Blue</td>
<td>Green</td>
<td>Brown</td>
</tr>
<tr>
<td>Harley Davidson</td>
<td>Black</td>
<td>Blue</td>
<td>Brown</td>
<td>Purple</td>
</tr>
<tr>
<td>Ducati</td>
<td>Black</td>
<td>Yellow</td>
<td>White/Black</td>
<td>White/Green</td>
</tr>
</tbody>
</table>

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.
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 30 second increments. If power is not restored, the alarm will continue to transmit and sound for six cycles.

**Battery Gauge**

**Shock Trigger**

**Perimeter Trigger**

**24 hour Clock / Text display**

**Range Indicator**

**Alert Type Aud/Vibr**

**System Status**

**Button 1**

**Button 2**

**Tilt Trigger**

**Ignition Trigger**

**Back up Power Trigger**

**Remote Battery Status**

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

**Motorcycle Battery Status**

Every time the alarm is activated or deactivated, the LCD will display a text message with the current battery voltage.

If the motorcycle battery drops below 11 volts, the screen will display CYCLE BAT LO.

**Transceiver Back light**

From the main screen, press button 1 or 2, the screen’s back light will turn on for 2 sec.

---

**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 30 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, arm the system without the Perimeter Sensor.

- 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 when the alarm is activated, 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 than 12 hours, the battery needs replacement. (Contact Artronix 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 far away from the MCM as possible to prevent false alerts.

**Adjusting the Sensor**

Although the sensor is preset from the factory, it may be necessary to adjust the sensitivity to suit your needs. 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 halfway. Doing so may cause false alarms.

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### Operating Instructions

The SR-i900 by default will be in auto arm mode and will activate with the perimeter sensor off and the siren on, five seconds after turning the ignition key off.

#### Auto Arm

- Turn ignition key off, walk away from bike.
- Press and hold Panic / Stop Trigger (when system is armed)

#### Auto Disarm

Walk next to bike, turn ignition key on.

#### Manual Disarm

Press and hold button 2.

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#### Manual Arm (system has to be manually disarmed first)

Press and hold button 1, 2, and 3.

---

Note: If the system is manually disarmed, it will stay in disarmed mode. In this mode, the system will not auto arm upon turning ignition key off. To re-enable the Auto Arm feature, hold button 1.
Programming and Customizing Instructions

Entering Programming Mode

1) Press button 2 twice quickly to enter programming mode

2) Press button 2 again to scroll through programmable options

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

Selecting Perimeter Sensor Default

Enter programming mode. The icon will begin to flash, press button 1 to enter the perimeter sensor menu. The LCD will display the current setting. To program, follow these steps:

Press button 1 to cycle between the options

Press button 2 to save and exit

Note: Remote will time-out of programming mode after 20 seconds of inactivity. No changes will be saved.

Note: To exit programming mode, scroll through all icons once.

Optional Accessories:

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

The receiver consists of two functions, RFID functions, and Two-way FM communication.

Low Battery Stages

It is recommended that the transceiver be charged daily. 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.

Two-Way Off: If the transceiver is not charged, at some point (approximately 7 days) Two-way communication will shut off. In this mode, the LCD displays [RFId only]. The RFID system will still operate and you will still be able to automatically and manually arm and disarm the system.

No Response: If the battery is not recharged and all power is drained, the transceiver will not respond or communicate to the alarm system. The transceiver has to be charged before it can operate the system again.

Selecting Transceiver Alert Type (Audible/Silent/Vibrate)
Enter programming mode. Scroll to the icon, press button 1 to select. The LCD will display the current settings. To program, follow these steps:

Press button 1 to cycle between the options

Press button 2 to save and exit

No Audible - Transceiver will vibrate and sound when a trigger occurs

All Off - Transceiver will only flash backlight when a trigger occurs

- Transceiver will only sound when a trigger occurs

- Transceiver will only vibrate when a trigger occurs

- Off - Sensor turned off

On - Least sensitive

5 - Most sensitive

Adjusting the Accelerometer (Shock/Tilt) 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 sensitivity setting, and the siren will chirp 1-5 times to confirm sensitivity level. To program, follow these steps:

Press button 1 to cycle between the options

Press button 2 to save and exit

On - Sensor turned off

1 - Least sensitive

5 - Most sensitive
Selecting Siren Default

Enter programming mode. Scroll to the icon and press button 1 to enter the siren menu. The LCD will display the current setting. To program, follow these steps:

- Press button 1 to cycle between the options.
- Press button 2 to save and exit.

Press button 2 to save and exit.

- Siren will sound and turn signals will flash every time alarm is triggered.
- Siren will not sound and turn signals will not flash every time alarm is triggered.

Setting the Clock

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 adjust each digit.
- Press button 2 to save.

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

RCS (Range Confirmation Signal)

If the transceiver is within range of the MCM and the alarm is activated, the LCD will display icon. If the transceiver does not receive the RCS, the icon will not appear.

Checking Violation Display with Time Stamp

Press button 1 twice quickly.

If no alarm triggers in memory, all sensor icons will be displayed.

If the system was triggered, the last triggered sensor will be displayed.

Press button 1 to scroll between triggers.

Or, press and hold button 2 for two seconds to erase memory.
### 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](image.png). The siren on the bike will sound for 5 seconds and the lights will flash.
2. If the perimeter sensor triggers a full alarm cycle, the LCD will display ![icon](image.png). The siren on the bike will sound for 5 seconds. (Note: The turn signal lights will not flash for a perimeter sensor trigger).
3. If the bike is tilted, the LCD will display ![icon](image.png). The siren on the bike will sound for 30 seconds and the lights will flash.
4. If the ignition switch is turned on or tampered with, the LCD will display ![icon](image.png). 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 (with the Back-Up Battery installed and charged), the LCD will display ![icon](image.png). The MCM-9 will still continue to sound and transmit from its internal power source. The siren on the bike will sound for 30 seconds.
6. The transceiver will continue to flash the triggered icon until any button is pressed.

### Encoding a Transceiver

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

1. Unplug HAR-1 from the MCM-9 and plug it back in, the siren will chirp 2 times and the lights will flash 2 times. (If not disarmed, the BAT-5 will engage the siren until it is fully depleted, once the backup battery is depleted, plug the HAR-1 back in to continue.)
2. Within 6 seconds of plugging in the HAR-1, (from the off position) turn the 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. Release button 1, the transceiver will chirp 4 times with the LCD displaying [Learn done] to confirm that the transceiver is encoded.
5. Turn ignition “ON” then “OFF” to exit “Learn Mode”.

#### Button 1
![Button 1](image.png)

Main Harness (HAR-1)
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 4 additional flashes = Back-Up battery 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 shut down 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.

Additional Information

Programming Personal Override code
A personal override code will be a sequence of left - right - left turn signal flashes that can be used if the remote is lost to disable the alarm (Grey wires must be installed for this feature to work):

1. Manually disarm system
2. Turn ignition on - off - on - off - on. The siren will chirp one time to confirm.
3. Press and hold button 1 and 2 at the same time for a few seconds until alarm chirps 3 times and flashes lights 3 times to confirm.

Select number of flashes for Code
The code will be a combination of left-right-left-right turn signal count.

1. Turn on left turn signal to desired number of flashes. (up to 9)
2. Turn on right turn signal to desired number of flashes. (up to 9)
3. Turn on left turn signal to desired number of flashes. (up to 9)
4. Turn on right turn signal once to exit mode. (Will only register one flash)
5. When done, the remote will display the sequence on the screen until a button is pressed, or for up to 30 seconds.
6. The bike will flash the code in the same sequence entered.

Using code in case of lost remote
1. Turn ignition key to on position. Let alarm go through a full cycle until the turn signal lights stop flashing. (If the siren is turned off, you do not need to wait for a full cycle)
2. Enter code as originally entered.
3. When correct code is entered, the alarm will deactivate.

Manual Override Procedure - (Not compatible with all bikes)

1. Manually disarm system
2. Turn ignition on - off - on - off - on. The siren will chirp one time to confirm.
3. Press and hold button 1 and 2 at the same time for a few seconds until alarm chirps 3 times and flashes lights 3 times to confirm.

Enter programming Mode

1. Manually disarm system
2. Turn ignition on - off - on - off - on. The siren will chirp one time to confirm.
3. Press and hold button 1 and 2 at the same time for a few seconds until alarm chirps 3 times and flashes lights 3 times to confirm.

Select number of flashes for Code
The code will be a combination of left-right-left-right turn signal count.

1. Turn on left turn signal to desired number of flashes. (up to 9)
2. Turn on right turn signal to desired number of flashes. (up to 9)
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5. When done, the remote will display the sequence on the screen until a button is pressed, or for up to 30 seconds.
6. The bike will flash the code in the same sequence entered.

Using code in case of lost remote
1. Turn ignition key to on position. Let alarm go through a full cycle until the turn signal lights stop flashing. (If the siren is turned off, you do not need to wait for a full cycle)
2. Enter code as originally entered.
3. When correct code is entered, the alarm will deactivate.