MC-1

MOTOCYCLE & PERSONAL CRAFT SECURITY SYSTEM

Operation and Installation Guide

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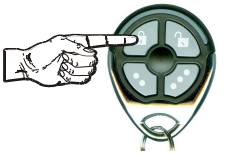
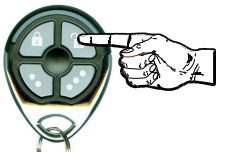
Remote Control Quick Reference Guide

Arming: Press & Release the "Arm" button (Locked Padlock Icon)



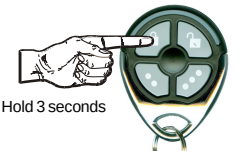
- The siren will chirp once.
- The parking lights will flash once.
- The LED Status Indicator will begin to flash slowly.

Disarming: Press & Release the "Disarm" button (Unlock Padlock Icon)



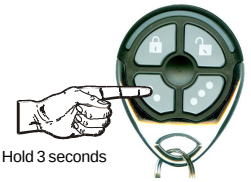
- The siren will chirp twice.
- The parking lights will flash twice.
- The LED Status Indicator will turn off.

Panic: Press & Hold the "Arm or Disarm" Button for 3 Seconds, with the ignition "On" or "Off"



- The siren will sound.
- The parking lights will flash.

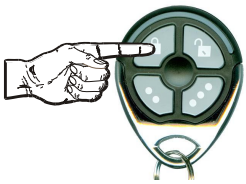
To Activate the Auxiliary Channel: Press & Hold The "••" Button for 3 Seconds



Arming the Alarm

The system may be "Armed" by any of 3 methods:

1) Remote Control Arming: Press & Release the "Arm" button



Upon Arming:
- The siren will chirp one time.
- The parking lights will flash once.
- The starter interrupt will engage.
- The LED Status Indicator will begin to flash slowly.

2) Automatic Arming: Turn Ignition "Off".

"Automatic Arming" is a programmable feature which allows the alarm to arm itself if desired.

If on, anytime the ignition is turned off:
- The Siren will chirp once to confirm arming countdown has begun.
- The LED Status Indicator will begin to flash rapidly.

Thirty seconds later:
- The siren will chirp & the lights will flash once.
- The LED Status Indicator will begin to flash slowly.
- The starter interrupt will engage.

- The alarm is now fully armed
- Once it is disarmed it will not automatically arm again.

This feature is turned off by default. See page 8 for programming instructions.

3) Automatic Rearming: Press & Release "Disarm" button

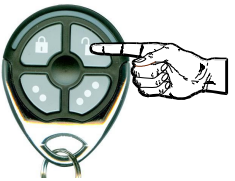
"Automatic Rearming" is a programmable feature which ensures that your system is never inadvertently disarmed. It is possible to accidentally or unknowingly operate the controller or transmitter from a pocket or purse. Automatic Rearming will rearm the alarm 90 seconds after it is has been disarmed, unless the ignition key is turned on. Automatic Rearming is confirmed by a fast flashing Status Light after the disarming.

This feature is turned off by default. See page 8 for programming instructions.

Disarming the Alarm

The system may be "Disarmed" by any of 2 methods:

1) <u>Remote Control Disarming</u>: Press & Release the "Disarm" button

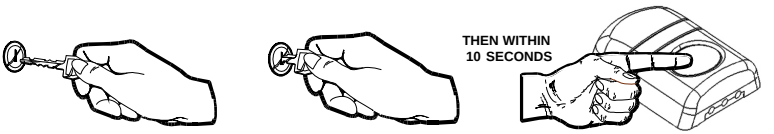


<u>Upon Disarm</u>:
- The siren will chirp twice. (4 chirps if alarm has activated & reset)
- The parking lights will flash twice. (4 times if alarm has activated)
- The starter interrupt will disengage.
- The LED Status Indicator turns off

2) <u>Emergency Override:</u>

Step 1: With the system in the armed condition use your key, turn the ignition to the "On" position.

Step 2: <u>Within 10 seconds</u>, Press & Release the Valet/ Override Switch.



System Armed & Activated

Regardless of the method used to Arm the alarm, once Armed, the alarm will monitor all protected zones, and if an intrusion attempt is detected it will activate, or "trigger".

A trigger consists of the following:

- The electronic siren will start sounding.
- The parking lights will flash on and off repeatedly.

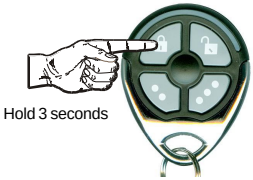
An activation has a 30 second duration unless the system is disarmed using the remote control or the Valet /Override switch. If all protected zones are secure at the end of the trigger, the system will stop and rearm itself to detect further entry attempts. If a protected zone is still open at the end of the trigger cycle, the alarm will continue to re-trigger itself for up to six activated cycles before it resets itself and ignores the violated zone.

Remote Panic Operation

Should it be needed in a threatening situation, or you feel the need to attract attention, the alarm can be triggered using the remote control. Your alarm features "Panic Mode", which allows you to activate "Panic" from the "Arm or Disarm" buttons.

<u>To Activate Remote Panic</u>:

Press & Hold the "Arm or Disarm" Button for 3 seconds, with the ignition "Off".



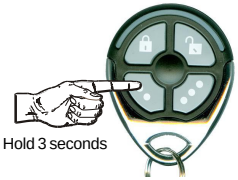
- The siren will sound.
- The parking lights will flash.

The Auxiliary Channel

The Auxiliary Channel may be used to operate an optional function. Please see your Omega dealer for details on available options.

<u>To Activate the Auxiliary Channel</u>:

Press & Hold the "••" Button for 3 Seconds.



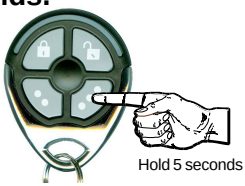
- The Auxiliary Channel cannot be activated if the vehicle's ignition is "On".

Digital Tilt Sensor

This security system is equipped with a dual stage Digital Tilt Sensor to increase it's effectiveness. Each time the alarm is armed, the tilt sensor enters a 5 second learning period in which it automatically samples it's current position. If there is any deviation from this position while armed, the alarm will prewarn or trigger. If a change in position is detected for less than 2 seconds, the system will prewarn. If the change is detected for longer, the system will enter a full trigger mode. The sensor's sensitivity is adjustable by remote using the following procedure.

<u>To Adjust the Tilt Sensor</u>:

With the System Armed or Disarmed Press & Hold the "•••" Button for 5 seconds.

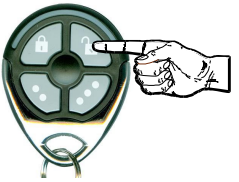


- The siren will emit a long chirp.
- The parking lights will flash once (Or the horn will sound if connected)

(Continued on next page)

Digital Tilt Sensor (continued)

Within 5 Seconds Press and Release the "Disarm" Button.



- The siren will chirp corresponding to the currently selected sensitivity plus one.
- Each time the "Disarm" Button is pressed it will increase the number of siren chirps to the corresponding sensitivity level.

The sensitivity scale level is:

Off	1 Siren Chirp
Lowest	2 Siren Chirps
Medium Low	3 Siren Chirps
Medium	4 Siren Chirps
Medium High	5 Siren Chirps
High	6 Siren Chirps

<u>To Exit Digital Tilt Sensor Mode</u>:
Wait 5 Seconds

- The siren will emit a 2 long chirps to endicate it has exited the sensitivity adjustment mode.
- The parking lights will flash twice. (Or the horn will sound if connected)

The LED Status Indicator

The LED Status Indicator visually shows the status of the alarm and also provides a high level of visual deterrence. The LED Status Indicator Light is normally mounted where it can be seen by others.

<u>Security System Status</u>: The primary function of the LED Status Indicator Light is to indicate the normal operating status of the security system:

Off = The system is disarmed or in sleep mode and not performing any automatic functions.
Flashing Slow = The system is fully Armed.
Flashing Fast (while Disarmed) = Automatic Arming is enabled.

Valet Mode

Valet Mode can only be entered into while the alarm is Disarmed.

Valet Mode is designed for situations in which it is not convenient for the automatic arming and automatic rearming portion of the alarm to be operational; for example during extended stopovers for vehicle servicing, loaning others your vehicle, maintenance, washing, etc.

To Enter Valet Mode (Alarm MUST be Disarmed):

Turn the ignition "On"
Press & Hold the Valet Switch for 1.5 Seconds.

- The LED Status Indicator will turn off and the siren will emit one long chirp to confirm entry into Valet Mode. Now the system can still become armed and diarmed but automatic arming and automatic rearming will not operate.
- *To remind you its in Valet Mode ,The siren will emit a long chirp every time the ignition is turned "Off"*

To Exit Valet Mode:
Turn the ignition "On"
Press & Release the Valet Switch.

- The LED Status Indicator will emit 2 short chirps to confirm that the system has exited Valet Mode. Normal arming operations may be resumed.

Sleep Mode

Sleep Mode can only be entered into while the alarm is Disarmed.

Sleep Mode turns off all of the alarm's security features. Sleep Mode is designed for situations in which it is not convenient for the security system to be in use such as long periods of storage or to disable the security system until needed. Sleep Mode also ensures maximum battery life during long periods in which the vehicle is not in use.

To Enter Sleep Mode (Alarm MUST be Disarmed):

Turn the ignition "On"
Press & Hold the Valet Switch for 3 Seconds.

- The LED Status Indicator will turn off and the siren will emit two long chirps to confirm entry into Sleep Mode.

To Exit Sleep Mode: Simply Turn the Ignition "On"

- The siren will emit a short chirp to confirm that the system has exited Sleep Mode. Normal arming operations may be resumed.

How to Program Remote Controls to the Alarm

Step 1: Turn "On" the ignition.

Step 2: Within 7 seconds press the Valet Switch 5 times. The alarm will chirp the siren once to confirm entry into Remote Control Programming Mode.

Step 3: Within 10 seconds, press the “Arm” Button on each remote to be programmed. The siren will chirp to confirm each time a remote has been programed.

If 10 seconds expire without any programming activity, or if the ignition is turned “Off”, the system will automatically exit Remote Control Programming Mode. The siren will emit 2 long chirps to confirm exit.

NOTE: Up to 4 remote controls can be programed to operate the alarm. Whenever a remote control, new or existing, is programmed to the alarm, all existing codes are erased for security. So, all remote controls which are to operate the alarm must be programmed at the same time.

How to Program Features

To access Features Programming Mode:

Step 1: Turn the ignition "On" then "Off".

Step 2: Within 10 seconds of turning the ignition "Off", press the Valet Switch 5 times. The siren will chirp once confirming entry to Features Programming Mode.

Step 3: Within 10 seconds of entering Features Programming Mode, press the Valet Switch the number of times equal to the number of the feature to be programmed. The siren will repeat the feature number with chirps to confirm.

Step 4: After the system acknowledges the feature to be programmed:

Press the transmitter button that corresponds to the desired setting.

Note: Once the feature to be programed is selected, you can toggle the feature between its settings by pressing the “Arm”, “Disarm” & “••” buttons on the remote control.

- To program more features, simply repeat Steps 3 and 4.
- If 10 seconds expire without any programming activity, or if the ignition is turned “On”, the alarm will automatically exit Features Programming Mode. The siren will confirm exit.

Programmable Features

The alarm has 7 programmable features which allow it to be customized to suite many individual needs. The following pages provide a brief explanation for each feature, and notes its factory default setting.

• = Default Factory Setting

1. PIN Code: (• 1 - 9)

- Press the Controller "Arm" button equal to the desired customized PIN Code, but wait, after each button press for a single Status Light flash and horn chirp confirmation. When you reach the disired number, wait for the siren to chirp the complete total number or presses.

Example: For a PIN Code of "3 presses", programming would be: enter Programmable Features Mode, select "feature 1" and the unit will chirp 1 time. Press "Arm" button 3 times and the unit will chirp for each button press. Now wait 2 seconds until the unit chirps 3 times. Exit programming mode, and the PIN Code is now 3 presses of the Valet switch.

2. Automatic Arming: (On = 1 siren chirp / •Off = 2 chirps)

- Allows the Alarm to arm itself 30 seconds after ignition is turned off.

3. Automatic Rearming: (On = 1 siren chirp / •Off = 2 chirps)

- Allows the alarm to rearm itself 90 seconds after it is has been disarmed. Automatic Rearming is confirmed by a fast flashing Status Light after disarming.

4. Horn Chirp: (•On = 1 siren chirp / Off = 2 chirps/ On Demand = 3 chirps)

- This feature configures the alarm's Brown/White wires to be toggled On, Off or on demand. The "Arm" Button turns this feature on, the "Disarm" Button turns this feature off, and the "••" Button makes it On Demand. Please refer to page 11 for wiring instructions.

5. Siren Chirps: (•On = 1 siren chirp / Off = 2 chirps / On Demand = 3 chirps)

- This feature allows the user to turn the siren chirps on/ off or to be On Demand.
- On Demand can be controlled by double pressing the "Arm" or "Disarm" buttons when arming or diarming the alarm.
- Pressing the "Arm" button turns the feature on, pressing the "Disarm" button turns the feature off, and pressing the "••" button turns the On Demand feature on.

6. Chirp Volume: (•Med = 1 siren chirp / Low = 2 chirps / High = 3 chirps)

- This feature allows the user to adjust the siren output volume when arming and disarming.
- Pressing the "Arm" button makes the siren duration set to Medium, pressing the "Disarm" button makes the siren duration set to the Lowest setting, and pressing the "••" button extends the time to the Highest setting.

Programmable Features (Continued)

7. <u>Auxiliary Ouput</u>: (•On Demand = 1 siren chirp / Latched = 2 chirps / Remote Start = 3 chirps)

- This feature allows the user to change the setting for the Auxillary Output wire.
- Pressing the "Arm" button turns the feature On Demand, pressing the "Disarm" button turns the feature to Latched, and pressing the "**••**" button turns the Remote Start feature on. The Remote Start feature off the Digital Tilt Sensor, ignition input, and disable the starter kill before it activates.

Wiring Description

<u>6 Pin Connector:</u>

Red Wire - (Constant Power Input): The Red wire supplies constant Positive 12 Volts for the system's operation.

CONNECTION: Connect this wire to a Positive battery voltage; both wires must be connected. One source is the battery's Positive terminal, and another potential source is the power supply wires at the ignition switch.

If the battery is selected as the power source, and the Red wire must extended, the added wire must be at least the same gauge, or preferably heavier, than the Red wire.

Some vehicles have a Constant 12 Volt circuit supplying the ignition switch, while others have multiple supply circuits. A schematic of the vehicles electrical system will show which of these is the case.

In either case, the included fuse holder and a 15 amp fuse must be used. The fuse holders should always be close to the power source connection, not the control module. Remove the 15 amp fuse before making the holders' connection, and only reinsert it after all of the other wiring connections have been made. **Caution! The use of the 15 amp fuse and the fuse holder are required! Failure to properly install the fuse holder and the 15 amp fuse will void all warranties.**

20ga Black Wire - (Ground): The Black wire provides Negative ground for the system; proper connection of this wire is very important.

CONNECTION: Using the correctly sized crimp-on ring terminal, connect the Black wire to the metal frame of the vehicle, preferably using an existing machine-threaded fastener. Make sure that the ring terminal attached to the Black wire has contact with bright, clean metal. If necessary, scrape any paint, rust or grease away from the connection point until the metal is bright and clean. If the control module has an insufficient ground connection, the security system can find partial ground through the wires that are connected to other circuits, and function, but not correctly. As the system can partially operate, a bad ground wire connection would not likely be suspected, and in many cases a poor ground is difficult to diagnose.

Wiring Description

Yellow Wire - (Ignition Input): This connection is critical to the proper operation of many of the security system's features. The Yellow wire is an ignition "on" input to the security system.

CONNECTION: This wire must be connected to the vehicle's Ignition (also known as Primary Ignition) wire. The proper vehicle wire will measure Positive 12 Volts when the ignition key is in the "Run" and "Start" positions and no voltage in the "Off" and "Accessory" positions. This wire is found in the ignition switch wiring harness.

18ga Black Wires - These wires are used to interupt the starter wire on the vehicle.

CONNECTION: Cut the start wire on the vehicle and attach one Black wire to each end. This will disable the starter when the alarm is in an armed state.

9 Pin Connector:

Orange Wire - (Ground when Armed Output): The Orange wire is a Ground when Armed ouput which is active when the security system is in an armed state.

Brown Wire - (Positive Siren Output): The Brown wire is a 1 Amp Positive output designed to operate the electronic siren for audible confirmations, and to sound if the alarm is triggered.

SIREN CONNECTION: The Brown wire may be connected directly to the siren's Red wire, and the siren's Black wire is connected to (-) Ground.

SIREN MOUNTING: Find a location away from the extreme heat of the engine and manifold. A suitable location will offer a firm mounting surface, will also allow sound dispersion out of the chosen location, and not be accessible to a thief. The siren must not be pointed upward to avoid moisture getting inside it.

SIREN CHIRPS: The siren itself can be set for loud or less loud confirmation chirps by refering to the Programming Features on page 8.

Brown/ Red Wire - (Parking Light/ Horn Input): This wire is provided for selecting polarityof the Brown/White wires.

CONNECTION: The polarity of the Parking Light/ Horn Input must be determined and connected a Positive or Negative source. Determine which polarity the vehicle uses to operate the Parking Light or Horn; this is either “Negative polarity” or “Positive polarity”. Then, connect the Brown/Red wire to Positive or Negative as needed. After connection of the Brown/Red wire is completed, the next step is to connect the Brown/White wires to the parking lights or the horn wire. **The 10 amp fuse and fuse holder must be used. Failure to do so will void all warranties.**

Wiring Description

Brown/White Wires (2) - (Parking Light/ Horn Outputs): This is an output to flash the vehicle's parking lights for visual arming/disarming confirmation, or horn honk which is to attract audible attention while the system is activated.

CONNECTION: Connect these wires to the vehicle's parking light circuit, which can usually be found at the at the headlight switch or at the light itself. Some Motorcycles have a left and a right parking light circuit which is when both Brown/White wires would be used to isolate each circuit. These wires can also be connected to the horn wire usually found at the horn button.

Blue Wire - Negative Instant Trigger: The Blue wire is a Negative instant trigger which can be used for an optional sensor.

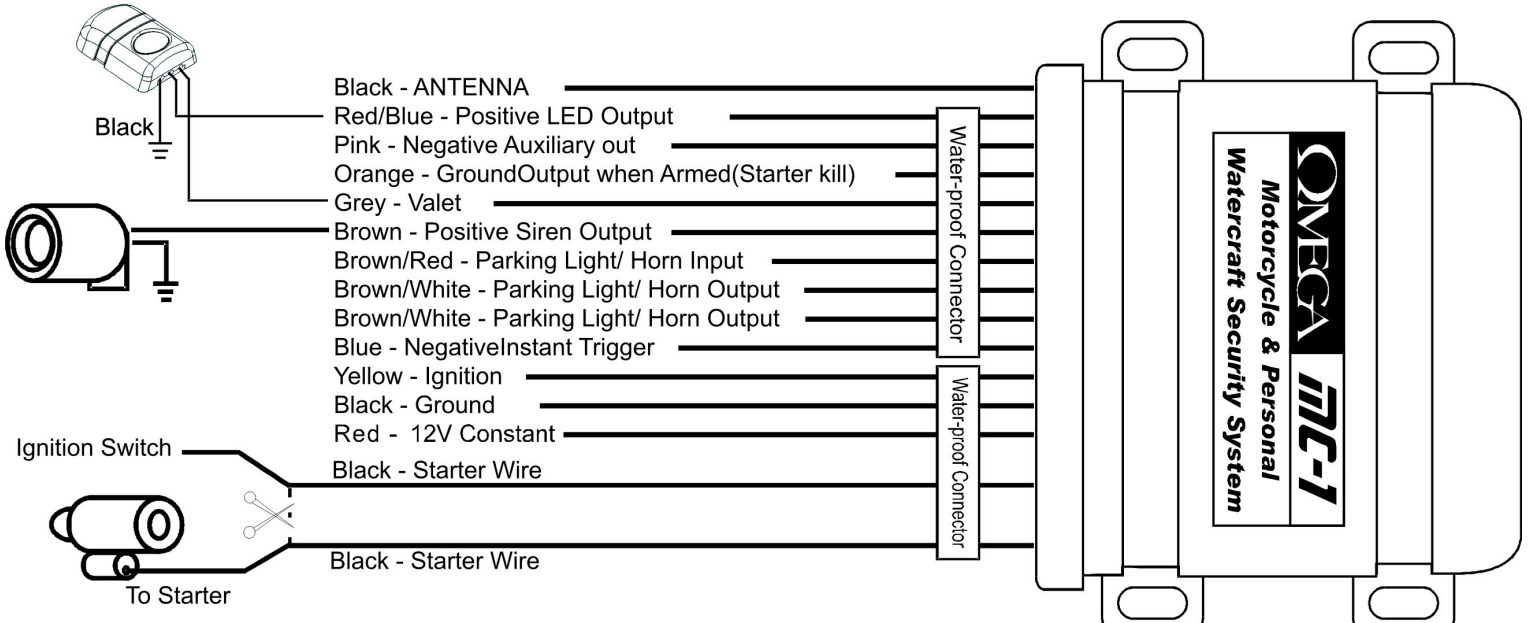
CONNECTION: This wire may be used with a mercury type of tilt switch or any other optional sensor that may be desired.

Pink Wire - Negative Auxiliary Output: The Pink wire is an optional output operated by the remotes "••" button.

CONNECTION: If the target wire is Positive switching, and/or draws more than 250mA, an optional relay must be used. To configure a relay to the Pink wire, connect it to relay pin (85), and connect a fused Constant Positive 12 Volts to relay pin (86). Connect pin (30) to power, or ground, as needed. Pin #87 is the output, and connected to the target wire.

Grey Wire - Valet: This Grey wire connects to the small grey wire located on the LED/Valet switch that comes with the unit.

Red/Blue Wire - LED Status Light: This Red/Blue wire connects to the small Red wire on the LED/Valet switch that comes with the unit.


Black
Black - ANTENNA
Red/Blue - Positive LED Output
Pink - Negative Auxiliary out
Orange - GroundOutput when Armed(Starter kill)
Grey - Valet
Brown - Positive Siren Output
Brown/Red - Parking Light/ Horn Input
Brown/White - Parking Light/ Horn Output
Brown/White - Parking Light/ Horn Output
Blue - NegativeInstant Trigger
Yellow - Ignition
Black - Ground
Red - 12V Constant
Water-proof Connector
Water-proof Connector
Ignition Switch
Black - Starter Wire
Black - Starter Wire
To Starter
OMEGA MC-1
Motorcycle & Personal
Watercraft Security System