

OMEGA RESEARCH & DEVELOPMENT, INC. FCC ID: L2MK9310

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EXHIBIT #:

Owner's Manual

MODEL: K9-Mundial

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INTRODUCTION:

Congratulations on your purchase of this vehicle security system. In learning to operate your security system, please become familiar with the following three principal components: the Remote Transmitter, the Red LED Status Indicator Light, and the Valet/Override Switch.

The Remote Transmitter: Each security system comes with two pre-learned transmitters, but can learn up to 4 different transmitters. Every transmitter has its own unique, invisible code. Thus, no other transmitter is coded the same as yours. In fact, no one, including the factory, can program another transmitter exactly like yours because the code is built inside the transmitter's master microprocessor and cannot be seen or duplicated. The transmitter has two buttons: one large button and a smaller button. Please refer to pages # 6-9 for transmitter operating instructions.

The Valet/Override Switch: This switch can be used to turn "Off" the security portion of the system, including the programmable Automatic Last Door Arming feature, and enter the alarm into Valet mode. The Valet/Override Switch can also be used in conjunction with the vehicle's ignition key to perform an emergency disarm of the security system in the event the transmitter becomes inoperable.

The Red LED Indicator Light: The LED Indicates the status of the alarm and serves as a visual deterrent to break-ins and theft. Refer to pages #12-13.

SECURITY SYSTEM ARMED & ACTIVATED:

The alarm may be "Armed" by any of two methods. The first method involves the use of a remote transmitter to "Actively" arm the system, provided the ignition switch is "off" and the system is not in Valet Mode. The second method is a programmable feature called "Last Door Arming" in which the alarm will self or "Passively" arm. When the alarm enters the armed state the siren will chirp once, the parking-lights will flash once, the door locks will lock (if connected), the starter interrupt will engage (if connected), and the LED Status Light will begin flashing to confirm that the system is armed. Three seconds after the siren chirps, the system will be in a fully armed state and will trigger if an intrusion attempt is detected.

An alarm trigger consists of the following:

- 1) The electronic siren/horn will start sounding.
- 2) The exterior parking-lights will flash.

An alarm trigger has a 30/60 second duration unless the system is disarmed using a remote transmitter or the Valet /Override switch. If all protected zones are secure at the end of the trigger cycle, the alarm will stop and rearm automatically ready to detect another entry attempt. If a protected zone is still open at the end of the trigger cycle, the system will reactivate for up to 3 additional trigger cycles. After the fourth trigger cycle the alarm will automatically rearm and bypass the open zone until that zone is closed.

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LAST DOOR ARMING: (aka: SELF OR PASSIVE ARMING)

Automatic "Last Door Arming" is a programmable feature which allows the alarm to arm itself and lock the doors. If "On", this convenient feature offers a high level of security since the user does not need to remember to turn the alarm "On"each time the vehicle is exited. Additionally the "Last Door Arming" feature may entitle the owner to an insurance discount.

Last Door Arming Process:

- The LED indicator will begin flashing rapidly when the vehicle's ignition has been turned "Off" and the last door closed, to confirm that the last door arming countdown has begun.
- 30 seconds later the alarm will arm & lock the doors (If Programed). The LED indicator will begin flashing slowly to confirm that the alarm is armed.

Note: The alarm can not self-arm while a protected point is open. If a vehicle door is opened during the arming countdown, the countdown will stop and reset when the last door is closed again.

TRANSMITTER FUNCTIONS:

The Alarm comes with two 2-button remote transmitters. Please familiarize yourself with the buttons and operations of the transmitters which are explained in the following pages.





ARMING/DISARMING THE ALARM:

To Arm/Disarm the alarm: Press & Release the large button.



- Upon Arming: The siren will emit one chirp.
 - The parking-lights will flash once.
 - The doors will lock. (If connected)
 - The starter interrupt will engage.
 - The LED status indicator will begin to flash slowly.
- Upon Disarm: The siren will emit 2 chirps. (4 Chirps if alarm has triggered)
 - The parking-lights will flash twice. (4x if alarm has triggered)

 - The doors will unlock. (If connected)
 - The starter interrupt will disengage.
 - The LED status indicator will turn "Off", or begin flashing rapidly depending if the Passive/Self arming feature is programmed.

Note: If a protected zone is open when alarm is actively armed using the transmitter, the alarm will bypass the open zone until that zone is closed.

PANIC MODE:

To activate Panic: Press & Hold the Large button for 3 seconds.

To deactivate Panic: Press & Release the Large button.



Upon activating Panic:

- · The siren/horn will sound.
- The exterior parking-lights will flash.
- The vehicle's doors will lock.

-The Panic cycle has a 60-second duration unless it is deactivated using a transmitter. At the end of the cycle, the alarm will reset and enter into the Armed state.

AUXILIARY CHANNEL:

To activate the auxiliary channel:

Press & Hold the Small button for 3 seconds.



The auxiliary output may be used to operate a trunk release, car-start module, or a window roll-up interface. Please see your Omega dealer for details & available options.

Notes:

- The Alarm is programed to Disarm when the auxiliary channel is activated.
- The auxiliary channel cannot be activated if the vehicle's ignition is "On".

EASY VALET:

In the Valet mode all of the Alarm's security features have been turned "Off" and only the convenience features such as keyless entry and the auxiliary channel can be operated. Valet mode is designed for situations in which it is not convenient for the security portion of the alarm to be operational. For example during extended stopovers for vehicle servicing, maintenance, valet parking, washing, etc.

To enter "Valet" mode: (With the alarm Disarmed)

While the Alarm is Disarmed, Press & Hold the Valet Button for 3 seconds with the vehicle's ignition "On" or "Off".

-The LED will light solid Red to confirm that the Alarm is in Valet mode.

To exit "Valet" mode:

Press & Release the Valet Button with the vehicle's ignition "On" or "Off".

-The LED will turn off to confirm that the Alarm has exited Valet mode.

EMERGENCY OVERRIDE:

In the event that the remote transmitter is lost, damaged, or its batteries have become exhausted, the Valet/Override Switch & your vehicle's ignition key may be used to Disarm the system:

To Disarm The Security System Without The Remote Transmitter:

Step 1. With the system in the armed condition, enter the vehicle via the driver's door (be aware that the alarm will trigger the instant the door is opened).

Step 2. Using your key, turn the vehicle's ignition to the "On" position.

Step 3. Within 10 seconds, Press the Valet/Override Switch.

-The alarm will instantly disarm.







LED STATUS INDICATOR LIGHT:

The Red LED Status Indicator Light visually confirms the status of the Alarm and provides a high level of visual deterrence. The Red LED Status Indicator Light is normally mounted in a location where it can be easily seen by the driver, as well as from outside the vehicle.

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

Off = The system is disarmed and not performing any automatic functions.

On Constant = The system is in the Valet Mode.

Flashing Slow = The system is fully Armed. Flashing Fast = The Last Door Arming or the Rearm process is in progress.

Automatic Transmitter Verification: For the first 10 seconds after the vehicle's Ignition is turned "On", the LED Indicator Light will flash a number of times equal to the number of remote transmitters which are programmed in the alarm's memory

- and can operate the security system.

 1 Flash /pause = 1 remote transmitter is programmed to operate the system.

 2 Flashes /pause = 2 remote transmitters are programmed to operate the system.
- 3 Flashes /pause = 3 remote transmitters are programmed to operate the system. 4 Flashes /pause = 4 remote transmitters are programmed to operate the system.

Alarm Trigger Recall Memory: If the Alarm is triggered while Armed, the Red LED Status Indicator Light will stop flashing slowly and begin to flash & pause to indicate which protected zone was violated, causing the trigger. The LED will flash & pause to indicate which zone was violated until the vehicle's ignition is turned "On". The alarm's trigger recall memory circuit can store up to four consecutive zone violations. If there has been multiple zone violations, the LED will replay them in the order in

1 Flash /Pause = System was triggered through the current sensing circuit. 2 Flashes /Pause = System was triggered through the sensor circuit. 3 Flashes /Pause = System was triggered through the hood or trunk circuit.

4 Flashes /Pause = System was triggered through the door circuit.

which they occurred.

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Note: Turning"On" the vehicle's ignition will clear the Alarm's trigger recall memory.

ANTI CAR-JACKING MODE:

The Alarm is equipped with a programmable tri-level Anti Car-Jacking system. The anti car-jacking system may be activated through the ignition, a combination of the ignition and an open door, or the remote transmitter.

#1: Anti Car-Jacking activated using the remote transmitter:

If programmable feature #13 is "On", the Anti Car-Jacking sequence may be activated using the remote transmitter any time the ignition is "On".

To remotely activate the Anti Car-Jacking process: Press & Hold both buttons on the remote transmitter for 4 seconds with the vehicle's ignition "On".

#2: Anti Car-Jacking activated through the ignition and a door:

If programmable feature #14 is "On", the system will initiate the Anti Car-Jacking

#3: Anti Car-Jacking activated through the vehicle's ignition:

If programmable feature #15 is "On", the system will initiate the Anti Car-Jacking process every time the vehicle's ignition is turned "On".

process every time a vehicle door is opened and closed while the ignition is "On".

Once the Anti Car-Jacking process has begun, the user has 60 seconds to press the Valet/Override button in order to cancel the process. If not cancelled, at 53 seconds the siren will begin to chirp for 7 seconds to alert the user that the system is about to enter into an alarm condition.

If the Anti Car-Jacking process is not cancelled before the 60-second countdown expires, the system will enter an alarm condition. In an alarm condition the siren/horn will sound, the parking lights will flash, and the stater interrupt will engage. The system will Not respond to the remote transmitters and will Not reset automatically.

Once fully triggered the Anti Car-Jacking can only be disengaged by:

Step 1: Turning the vehicles's ignition "Off".

Step 2: Turning the vehicle's ignition "On".

Step 3: Pressing the Valet/Override button.

SENSOR ZONE:

Sensors: This security system is equipped with a plug-in port for an optional Sensor to increase the effectiveness of the system.

The comprehensive line of optional sensors offered is comprised of impact sensors, glass tampering sensors, and microwave/radar sensors which can detect motion inside and outside the vehicle. Your Omega dealer can provide details on the complete line of sensors and help determine which sensor or sensors are best suited for your needs. Currently many sensors feature dual zone capability, which take advantage of the security system's prewarn circuit explained below.

Prewarning Detection Circuit: This circuit requires connection to an optional dual zone detection device. When the sensor's prewarn zone is triggered the security system will respond by chirping the siren for 2 seconds.

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EXPLANATION OF PROGRAMMABLE FEATURES:

The Alarm comes equipped with 16 programmable features which allow the system to be customized to each particular application.

- = Default Factory Setting
- 1. Current Sensing: (•On /Off)
- 2. Current Sensing Activation Delay: (3 Seconds /•3 Minutes) - Allows option of a longer activation delay for use in vehicles with cooling fans which stay on after the ignition has been turned off.
- 3. Automatic "Last Door" Arming: (On /Off) - Allows the Alarm to automatically Arm itself 30 seconds after the vehicle's
- ignition is turned "Off" and the last door is closed. 4. Doors Lock With "Last Door" Arming: (On / Off) - Allows the Alarm to lock the vehicle's doors when it automatically Arms itself.
- 5. Automatic Rearm: (On /Off) - Allows the Alarm to automatically Rearm itself 90 seconds after it is Disarmed using the remote transmitter.

- 6. Doors Lock With Automatic Rearm: (On /• Off)
- Allows the alarm to lock the vehicle's doors when it automatically Rearms itself.
- 7. Constant Siren Output Or Pulsed Horn Honk Output: (Siren / Horn) - Allows the selection of a constant output to operate the siren or a pulsed output to operate the vehicle's horn.
- 8. Ignition Controlled Door Lock/Unlock: (• On/Off) - Allows the alarm to lock/unlock the vehicle's doors when the ignition is turned

-Allows the option of a single or double unlock pulse upon desarming the Alarm.

- "On"/"Off". 9. Alarm Condition Cycle Duration: (+30/60 Seconds)
- Allows the option of a 30 or 60 second alarm condition cycle.
- 10. Single Or Double Unlock Pulse: (Single / Double)
- 11. Open Door By-Pass Alert: (On / Off)
- Allows the Alarm to emit 3 chirps to warn the user if there is an open door zone when being Armed using the remote transmitter.

12. Aux Channel Disarms Alarm Or Engages Start Mode: (•Disarms / Start Mode)

- Allows the option of having the auxiliary channel disarm the Alarm when activated or engaging the Remote Start mode. In the Remote Start mode the alarm will bypass the current sense and sensor zones if the auxiliary channel is activated while the Alarm is armed. This will allow a remote start module to start the vehicle without triggering the Alarm. The door and trunk zones remain activated and if violated will trigger the Alarm and turn-the vehicle engine off.
- 13. Remote Control Activated Anti Car-Jacking: (On/• Off)
 - Refer to page #14.
- 14. Door & Ignition Activated Anti Car-Jacking: (On/• Off)
- Refer to page #14.
- 15. Ignition Activated Anti Car-Jacking: (On/• Off)
 - Refer to page #14.
- 16. Chirp Confirmation: (• On/Off)
 - Allows the permanent activation/deactivation of the Alarm's siren/horn chirp confirmation when performing functions (i.e.: Arm/Disarm chirp confirmations).

FEATURES PROGRAMMING MODE:

The Alarm comes equipped with 16 programmable features. These features are explained in pages #17-19.

To Enter Features Programming Mode:

- 1) Turn the vehicle's ignition "On" then "Off".
- 2) Within 7 seconds of turning "Off" the ignition Press & Release the Valet button 5 times.
- The siren/horn will emit a long chirp confirming entry to the programming mode.

Programming:

- 3) Within 7 seconds of entering the programming mode, Press the Valet button a number of times equal to the number of the feature to be programmed.
- The siren/horn will emit a number of chirps equal to the feature selected.

Example: To program feature #3, Press the Valet button 3 times. The siren/horn will chirp 3 times to confirm the feature has been selected.

4) After selecting the feature to be programmed, Press the button on the remote transmitter that corresponds to the desired setting:

- Press the Large button, the siren/horn will chirp once.
- Press the Small button, the siren/horn will chirp twice.

NOTE: The selected feature can be toggled "On" / "Off" by pressing the remote transmitter's buttons.

5) To program another feature repeat steps #3-4.

- To program another feature it is necessary to Press the Valet button a number of times equal to the number of the feature to be programed.

Example: To program feature #1, Press the Valet button 1 time. The siren/horn will chirp 1 time to confirm the feature has been selected.

6) The Alarm will automatically exit programming mode if 7 seconds go by without programming input or if the vehicle's ignition is turned "On".

- The siren/horn will emit a long chirp to confirm exit from the programming mode.

LIST OF PROGRAMMABLE FEATURES:

These features are explained on pages #17-19. The Features programming mode is explained on pages #20-21.

1. Current Sensing: (•On /Off)

- ON = Press the Large button, the siren/horn will chirp once.
- OFF = Press the Small button, the siren/horn will chirp twice.
- 2. Current Sensing Activation Delay: (3 Seconds /• 3 Minutes)
- 3 SECONDS = Press the Large button, the siren/horn will chirp once.
- 3 MINUTES = Press the Small button, the siren/horn will chirp twice.
- 3. Automatic "Last Door" Arming: (• On /Off)
- ON = Press the Large button, the siren/horn will chirp once. - OFF = Press the Small button, the siren/horn will chirp twice.
- 4. Doors Lock With "Last Door" Arming: (On /• Off)
- ON = Press the Large button, the siren/horn will chirp once.
- OFF = Press the Small button, the siren/horn will chirp twice.
- 5. Automatic Rearm: (• On /Off)
- ON = Press the Large button, the siren/horn will chirp once.
- OFF = Press the Small button, the siren/horn will chirp twice.

- 6. Doors Lock With Automatic Rearm: (On /• Off)
- ON = Press the Large button, the siren/horn will chirp once. - OFF = Press the Small button, the siren/horn will chirp twice.
- 7. Constant Siren Output Or Pulsed Horn Honk Output: (•Siren / Horn)
- · SIREN = Press the Large button, the siren/horn will chirp once.
- HORN = Press the Small button, the siren/horn will chirp twice.
- 8. Ignition Controlled Door Lock/Unlock: (*On/Off)
- ON = Press the Large button, the siren/horn will chirp once.
- OFF = Press the Small button, the siren/horn will chirp twice.
- 9. Alarm Condition Cycle Duration: (•30/60 Seconds)
- 30 SECONDS = Press the Large button, the siren/horn will chirp once.
- 60 SECONDS = Press the Small button, the siren/horn will chirp twice.
- 10. Single Or Double Unlock Pulse: (Single / Double)
- SINGLE = Press the Large button, the siren/horn will chirp once. - DOUBLE = Press the Small button, the siren/horn will chirp twice.
- 11. Open Door By-Pass Alert: (On /• Off)
- ON = Press the Large button, the siren/horn will chirp once.
- OFF = Press the Small button, the siren/horn will chirp twice.

- 12. Aux Channel Disarms Alarm Or Engages Start Mode: (*Disarms / Start Mode)
- DISARMS ALARM = Press the Large button, the siren/horn will chirp once.
- START MODE = Press the Small button, the siren/horn will chirp twice.
- 13. Remote Control Activated Anti Car-Jacking: (On/•Off)
- ON = Press the Large button, the siren/horn will chirp once.
- OFF = Press the Small button, the siren/horn will chirp twice.
- 14. Door & Ignition Activated Anti Car-Jacking: (On/•Off)
- ON = Press the Large button, the siren/horn will chirp once.
- OFF = Press the Small button, the siren/horn will chirp twice.
- 15. Ignition Activated Anti Car-Jacking: (On/•Off) - ON = Press the Large button, the siren/horn will chirp once.
- OFF = Press the Small button, the siren/horn will chirp twice.
- 16. Chirp Confirmation: (•On/Off)
- ON = Press the Large button, the siren/horn will chirp once.
- OFF = Press the Small button, the siren/horn will chirp twice.

TRANSMITTER PROGRAMMING MODE:

This Alarm is equipped with ATV: Automatic Transmitter Verification for your protection. Every time the ignition is turned "On" the LED will Show how many transmitters can operate your system.

Each time Transmitter programming mode is accessed and a new Transmitter is programed all previous Transmitters in memory will be erased and will have to be reprogrammed.

To Program Remote Transmitters:

- 1) Turn "On" the vehicle's ignition.
- 2) Within 7 seconds of turning "On" the ignition Press & Release the Valet button 5 times.
- The siren/horn will emit a long chirp confirming entry to the programming mode.
 3) Within 7 seconds of entering the programming mode, Press the Large
- button on each transmitter to be programmed.
- The siren/horn will emit a chirp after each transmitter has been learned.
- Up to four transmitters can be programmed.

4) To Program Transmitters For Second Vehicle Operation:

When programing a transmitter to operate a second vehicle the small button or the combination of pressing both buttons together can be chosen to Arm/Disarm the Alarm in the second vehicle.

- The actual button functions of the transmitter will depend on which button is chosen to Arm/Disarm the Alarm in the second vehicle.
- The siren/horn will emit a chirp after each transmitter has been learned.

Arm/Disarm	Panic	Auxiliary Channel	Anti Car-Jack
Large	Large	Small	Both
Small	Small	Large	Both
Both	Both	Small	

- 5) The Alarm will automatically exit programming mode if 7 seconds go by without programming input or if the vehicle's ignition is turned "Off".
- The siren/horn will emit a long chirp to confirm exit from the programming mode.

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REMOTE TRANSMITTER REFERENCE GUIDE:

ARMING/DISARMING THE ALARM



Press & Release The Large Button.



PANIC





Press & Hold The Large Button For 3 Seconds

TO ACTIVATE THE AUXILIARY CHANNEL





Press & Hold The Small Button For 3 Seconds.

LIMITED LIFETIME WARRANTY

Products manufactured and sold by OMEGA RESEARCH & DEVELOPMENT, INC. (the Company), are warranted to be free from defects in materials and workmanship under normal use. If a product sold by the Company proves to be defective, the Company will repair or replace it free of charge within the first year and thereafter all parts to be repaired will be free with only a nominal charge for Omega Research and Development, Inc.'s labor and return shipping, to the original owner during the lifetime of the car in which it was originally installed.

All products for warranty repair must be sent postage prepaid to Omega Research & Development, Inc., P.O. Box 508, Douglasville, Georgia 30133, with bill of sale or other dated proof of purchase. This warranty is nontransferable and 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, unauthorized service, fire, flood, lightning, or other acts of God.

This warranty limits the Company's liability to the repair or replacement of the product. The Company shall not be responsible for removal and/or reinstallation charges, damage to or theft of the vehicle or its contents, or any incidental or consequential damages caused by any failure or alleged failure of the product to function properly. Under No Circumstances Should This Warranty, Or The Product Covered By It, Be Construed As A Guarantee Or Insurance Policy Against Loss. The Company 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 device complies with F.C.C Rules part 15. 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 be received, including interference that may cause undesired operation.

The manufacturer is not responsible for any radio TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.