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 FCC 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 or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Omega Echo-2

2-Way Controller Transceiver

OPERATION GUIDE & INSTALLATION MANUAL

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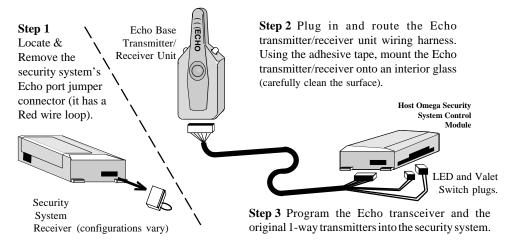
THE OMEGA ECHO 2-WAY TRANSCEIVER



On the rear side is battery compartment. The Echo uses a standard "AAA" 1.5 volt battery, and it will indicate when to replace the battery.

INSTALLING THE ECHO TRANSCEIVER SYSTEM

The Omega Echo communicates with a remotely-mounted base receiver/transmitter unit which is plugged directly into the host security system module; no other wiring connections are needed. The base receiver/transmitter unit may be mounted directly to an interior glass by utilizing the attached adhesive pad (clean and prepare the glass before adhering) for the best operating range. The receiver/transmitter also contains alternative system Status Lights and a Valet Switch. these may be used, or the original items may be retained.



PROGRAMMING THE ECHO TO THE SECURITY SYSTEM

Please note that programming an Echo or transmitter to the system will activate the audible Unauthorized Transmitter Alert warning and the extended Status Indicator Light visual display; for the next 48 hours the siren will sound a series of chirps every time the vehicle's ignition is turned on.

The Echo must be programmed to the system in order to operate it. This programming procedure is identical for a 1-way transmitter or Echo transceiver. The original 1-way transmitters may be used to also operate the security system, in addition to the Echo. To program all, follow this procedure:

Have all of the transmitters or transceivers at hand (when one is programmed, all others are erased). **Step 1** Turn the vehicle's ignition "on".

- **Step 2** Within 5 seconds of turning "on" the ignition, press the Valet Switch 5 times. The siren will chirp once, confirming that the system is ready to learn an Echo or 1-way transmitter.
- Step 3 Within 10 seconds press and release the "Arm/Lock" button (the "locked padlock" graphic).

 The siren will chirp once, confirming that the system learned the Echo or transmitter.

Step 4 Repeat the previous step for each Echo or transmitter which is to operate the system.

- The system will remove itself from the programming mode if 10 seconds expire without its receiving a signal, if the ignition is turned "off", or upon four transmitters or transceivers being programmed into the system.
- Only the "Arm/Lock" button is pressed in programming; when it is learned all of the other buttons' functions are automatically assigned.

ABOUT THE ECHO TRANSCEIVER

- √ The Omega Echo system is a modular 2-way remote controller transceiver, which simply plugs into the host Omega vehicle security system.
- ✓ To utilize the Echo, the host Omega vehicle security system must be a model which is compatible with the Echo. All such models have in their Operations Manuals a description of the optional Echo.
- ✓ When using the Echo to operate the vehicle security system, the Echo is used in the exact same manner as the original 1-way transmitters. The buttons on both share the same markings.
- ✓ The original 1-way transmitters may still be used to operate the system.

The Echo 2-way transceiver, in addition to operating your system, also receives signals from the system and displays a variety of system conditions on its LCD screen. The Echo also will chirp and play melodies, which emulate the security system's siren. Your system can be operated by as many as four standard transmitters and/or Echo transceivers.

The 4 Use Buttons: The Echo has the same four operational buttons as the standard transmitter, with like icons imprinted on them. These are:

1- "Arm/Lock" button

2- "Disarm/Unlock" button

- **2-** "" 2nd Channel Output button
- **3-** " button for remote Panic or 3rd Channel Output

The 5th Button: The Echo transceiver has a fifth button, not found on the 1-way transmitter, which is the "Programming" button. In regular use, pressing and releasing this button will illuminate the Echo's LCD screen for 10 seconds. In other use, the Programming button is used to change several customizing features found in the Echo.

Echo Remote Transceiver

Icons: The LCD screen on the remote transceiver has various icons which indicate system status (all are seen in the view at right). When the remote transceiver is used to operate the system, it receives back a signal which causes it to display the appropriate icons, in addition to chirping (emulating the siren). Brief descriptions of each of these icons are:



- The digit readout is a clock, with AM and PM indication. This readout also shows how many Echo transceivers and/or 1-way transmitters can operate the system.
- The "DISARM" will also show "ARM"; this indicates the Armed or Disarmed status of the system. Neither icon is present when the system is in Valet Mode.
- The locked or unlocked padlock (windshield) reflects the true locked or unlocked status of the doors (certain programmable features can automatically arm the system, but not lock the doors). Arming with the transmitter/transceiver always locks the doors; disarming with the transmitter/transceiver will unlock the doors <u>unless</u> the system is activated and sounding.
- "VALET" indicates Alarm Valet Mode, replacing the "ARM" or "DISARM" icons. A musical tone occurs when placing the system into Alarm Valet Mode.

- If the "MUTE" vibrating operation is selected, turning off the chirps, the remote starting melodies are also replaced by vibration.
- The previous also applies to the musical melodies when programming- if the Echo is configured
 for "MUTE" operation (vibrates instead chirping), then in programming it will not play the musical melodies. Instead, it vibrates when the remote starting Start Melody and Stop Melody are
 accessed for programming.

Other Omega Echo Notes:

- The system will only transmit a signal to the Echo transceiver if the Echo was last used to operate
 the system (as in Arming, Disarming, etc). Example: if the 1-way transmitter is used to Arm the
 system, the system will not transmit a signal which will cause the Echo to chirp and change its
 icons.
- If multiple Echo transceivers are programmed to operate the system, the system will send its signal to only one transceiver- the last one used.
- When the Omega MAX system does send a signal to the Echo transceiver, a few seconds is needed
 for this "handshake" to occur. If the system is operated in a rapid fashion, as in quickly repeating
 Arm and Disarm cycles, the Echo will not have time to receive the signal from the system, and
 therefore it will stop responding and reporting the system's status. Normally operating the system
 corrects this symptom.
- A final point to remember is that the Echo transceiver cannot receive a signal from the Omega
 MAX system while it itself is transmitting. For normal operations, the Echo's buttons are pressed
 and released. Even when "Panic" is operated, the Echo button should be released as soon as
 "Panic" engages. Otherwise, the Echo cannot receive the signal from the system.

The Echo will play a musical melody; this is the **Start Melody** which plays upon remote starting. One of five melodies may be chosen now.

Press and release the button



Each press of the button changes to the next melody, note that the LCD screen displays "S" and a numeral, which is the melody number. When the desired musical tone has been the last one played

press and release the button



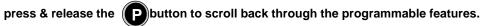
The Echo will play another musical melody; this is the **Stop Melody** which plays when remote start engine run period ends. There are five different melody choices which can be made.

Press and release the button



Each press of the button changes to the next melody, note that the LCD screen displays a numeral only, which is the melody number. When the desired musical tone has been the last one played, you may

leave the Echo undisturbed for 12 seconds, until it chirps once



· While the Echo programming must be "scrolled" through, programming mode can be exited at any point within the menu by simply not pressing any buttons for 12 seconds. The Echo chirps once when it exits programming mode.

- When "BAT LOW" appears the transceiver's 1.5 volt AAA battery should be replaced with a new battery.
- The transceiver's chirps and musical tones may be turned off, which makes the unit vibrate instead; "MUTE" indicates this state.
- The "3" within a circle appears when the 3rd Channel Output is operated.
- "HOOD/TRUNK" indicates that this zone the vehicle is or has been violated. If associated with the system being activated, the transceiver also chirps, until any button is pressed. In this case, the icon remains flashing until the ignition switch is turned on.
- If a remote starting attempt is made, and systems aborts it due to a violated safety circuit, the "crossed-out key" on the hood area will appear (this is accompanied by a musical tone).
- The "CARJACK" icon within the vehicle's front tag frame indicates that this operation has been activated, which can be performed by any of three methods.
- On the vehicle's windshield is a "hammer" and "impact" icon. When the shock sensor detects light impact, causing the system to prewarn, the "impact" icon alone will momentarily appear, accompanied by three chirps. If the sensor detects a harder impact or breaking glass, activating the system, the full hammer and impact icon appears, and the transceiver chips until any button is pressed, and the icon remains flashing until the ignition switch is turned on.
- The "DOOR" icon will indicate that the system was activated via the door detection circuit. The transceiver chirps until any button is pressed, and the icon remains flashing until the ignition is turned on.
- The "start" icon at the rear of the vehicle confirms remote starting. This icon is accompanied by a musical melody, and stays on while remote starting is operating; during which the puffs will change to appearing sequentially.
- The "2" within a circle indicates use of the 2nd Channel Output, which is most commonly used for a remote trunk release feature.

- The "transmitting tower" icon is an in-range indicator. It is present if the last transmission from the transceiver was answered by a return signal from the system. Should the transceiver be operated, and no return signal is received, this icon will disappear.
- The various lines at the upper rear of the vehicle graphic represent a unique Omega feature which allows the user to customize the vehicle type represented by the display. Options are: passenger car, pickup truck, and sport utility/van.

PROGRAMMING THE ECHO TRANSCEIVER FUNCTIONS

The Omega Echo transceiver has several user-programmable features, which are:

- **Chirp or Mute** The chirps may be turned off, and replaced with vibration.
- Vehicle Type Choices are a passenger car, pickup truck, or van/SUV.
- **Time Adjust** To set the Echo's clock time.
- ✓ **Start Melody**; and **Stop Melody** These are played with remote starting.

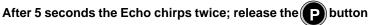
Configuring these features as desired is a simple process, using the Echo unit's three round side buttons. This is a sequential procedure, in order as follows:

Press and hold

1- Hold this button for 5 seconds to enter the programming mode.

OR

2- During this time **Chirp or Mute** can be chosen by pressing the button for 1 second



The upper rear of the vehicle will flash; **Vehicle Type** may be chosen now.

Press and release the



Each press of the button changes the vehicle from Passenger Car, then to Pickup Truck, and then to Van/SUV. When the desired type is flashing

press and release the



The **Time**'s "Hours" will flash, and may be set now.

Press and release the



button to advance the hours or

press and release the



button to reverse the hours.

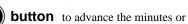
When the Hours are correct (please note "AM" or "PM")

press and release the



The **Time**'s "Minutes" will flash, and may be set now.

Press and release the



press and release the



button to reverse the minutes.

When the minutes are correct

press and release the

