

MODEL MS2005 VEHICLE SECURITY SYSTEM OWNER'S MANUAL

ongratulations on your purchase of this Ungo System. Please read this manual thoroughly to familiarize yourself with your system's components and operation. Discuss any questions you might have with your installing dealer.

Record the serial number of your Ungo System and keep all dealer records and receipts. Be sure to discuss the installation with the dealer so that you understand the specifics of the installation in your vehicle.

CAUTIONS

- USE OF THE UNGO MS2005 IS THE RESPONSIBILITY OF THE OWNER.
- KEEP THE REMOTE TRANSMITTERS OUT OF THE REACH OF CHILDREN.
- THE UNGO MS2005 IS NOT INTENDED FOR USE ON VEHICLES EQUIPPED WITH A MANUAL TRANSMISSION.
- BE SURE THE TRANSMISSION IS IN PARK BEFORE LEAVING THE VEHICLE.
- ONLY REMOTE START THE VEHICLE IN A WELL VENTILATED AREA.

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Note: Certain features described in this manual may require additional parts and/or labor. Also, some features of the Ungo MS2005 system have selectable options that must be activated or programmed during the system's installation. These items will be identified in the following sections. Your Authorized Ungo Dealer will be happy to discuss these features with you and help you design your system to meet your needs.



About Your Ungo System

The Ungo MS2005 is a state-of-the-art combination vehicle security and remote controlled car starter system. The MS2005 offers security features designed to deter and detect potential intrusions to your vehicle. It will alert and inform the driver and people in the vicinity of your vehicle when a zone is violated.

The MS2005 will inform the user of any bad switches or sensors that may be causing the system to function improperly, and in the event that the system is triggered, the MS2005 will even specify which zone was violated. The MS2005 protects both you and the contents of your vehicle with features such as panic mode, dome light illumination, and ignition controlled door locking.

In addition to its security features, the MS2005 will safely start your car by remote control, without your key in the ignition. If your vehicle is powered by a diesel engine, the MS2005 will turn on the ignition for several seconds prior to starting the engine, in order for the glow plugs to warm up.

Once the MS2005 has started the engine, it will turn on your preset accessories (heater/air conditioner) to provide you with the maximum comfort when you enter your vehicle. After activation, the MS2005 will allow the vehicle to run for approximately 12 minutes (or 24 minutes if selected by your installer at the time of installation) before automatically shutting off.

Each Ungo MS2005 System comes with:

- Main Unit
- 2 Four Button Remote Transmitters
- 125dB Siren
- · Extended Range Receiver
- Status LED
- 2 Stage Electronic Shock Sensor
- Emergency Override / Valet Switch

Safety Features

- Brake Pedal Shutdown Shuts down the remote start when the brake pedal is pressed.
- Hood Pin Switch Protection (optional) Prevents the engine from being started while the hood is open.
- Valet Mode Prevents the vehicle from being started when being serviced.

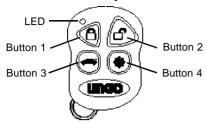
Options and Convenience Features

The advanced design of the Ungo system incorporates a number of optional inputs and outputs allowing you to create a customized security / convenience system by easily accommodating many optional convenience and security features such as:

Door Locking Remote Window Control Power Trunk / Hatch Release Glass Breakage Sensor Radar Sensor Back-up Battery Siren

Remote Transmitters

Remote Transmitter Layout



The Ungo MS2005 comes with 2 multi-function Remote Transmitters used to control nearly all of the system's features.

Each time a transmitter button is pressed, the LED will flash to indicate that a transmission is taking place.

Button 1 Arms the system. This button also locks the doors when the system is in Valet Mode.

Button 2 Disarms the system. This button also unlocks the doors when the system is in Valet Mode.

Button 3 Activates the system's Auxiliary Function, commonly used for trunk release.* Also used to arm / disarm the system silently.

Button 4 Activates the system's Remote Start Feature.

Optional Driver Door Priority Feature*

This configuration adds the security of unlocking only the driver's door when the system is Disarmed. Pressing the Disarm button again will unlock all remaining doors.

Button 1 Arms the system. This button also locks the doors when the system is in Valet Mode.

Button 2 Disarms the system and unlocks the driver's door. This button also unlocks the doors when the system is in Valet Mode.

If the system is Armed, pressing Button 2 will Disarm the system and unlock the driver's door only.

If the system is Disarmed, pressing Button 2 will unlock all remaining doors.

If the system is in Valet and the doors are locked, pressing Button 2 will unlock the driver's door. Pressing Button 2 again will unlock all remaining doors.

*Extra parts and/or labor may be required to properly utilize this feature. See your Authorized Ungo Dealer for details.

Battery Replacement

Your Ungo Remote Transmitter uses a 12 volt alkaline battery, which will need to be replaced from time to time. Under normal conditions, the battery should last for up to a year before it needs replacement.

When your Remote Transmitter's battery is in need of replacement, you will notice a decrease in your system's operating range or a decrease in the brightness of the Transmitter's LED indicator.

To change the battery, remove the 2 screws at the back of the Transmitter and carefully separate the top and bottom halves of the Transmitter case.

Insert the new battery, making sure that the positive and negative terminals are positioned correctly and replace the cover.

Adding a New Transmitter into the System

Have all desired transmitters ready (up to 3 transmitters) and follow the steps below:

- 1. Turn on the ignition.
- 2. Press and hold the Override switch.
 - · The status LED will turn on red.
 - · The siren will chirp 3 times.
- Have all desired transmitters ready and within 5 seconds follow the steps below for each transmitter.

For remote arming *with* chirp confirmation *continue holding the Override switch* and press Transmitter Button 1.

--- or ---

For remote arming *without* chirp confirmation *release the Override switch* and press Transmitter Button 1.

- The parking lights will flash once quickly to confirm that the new Remote Transmitter has been added.
- 4. Wait 5 seconds then turn off the ignition.

Any transmitters that were previously learned to this system and not included in this procedure will no longer operate this system.

Additional Remote Transmitters

Additional Remote Transmitters for your MS2005 are available from your Authorized Ungo dealer.

Security Features

Remote Arming

When Armed, the system monitors and protects 3 independent areas, or **zones**, including the doors, hood/trunk, and shock sensor.

To Arm the system:

- 1. Turn off the ignition.
- 2. Press Button 1.
 - The siren/horn will chirp once.*
 - The doors will lock.
 - · The parking lights will flash once.
 - The LED will turn on red, indicating the doors, hood and trunk inputs are activated.
- * The siren chirp(s) during Arming will alert you the condition of the system and vehicle when the system is armed.
 - 1 chirp = normal arming
 - 1 + 4 chirps = door, hood, or trunk open

During Arming, if the system detects a bad sensor or an open zone, the system will ignore that input, but keep all other areas protected.

- After 10 seconds:
 - The LED will begin blinking, indicating that the shock sensor is activated.

While the system is Armed, the system will trigger if:

- · The doors are opened.
- · The shock sensor detects an impact to the vehicle.
- The hood or trunk is opened.

When triggered, the siren will sound, and the parking lights will flash and the horn will honk (if connected). If the system is triggered by the doors, hood, or trunk, the system will alarm for 40 seconds. If triggered by the shock sensor, the system will alarm for 20 seconds.

If the same input triggers the system 3 times during a single arming cycle, the system will bypass that input keeping the other zones protected until the next time the system is armed.

If the shock sensor detects a light impact to the car, the siren will sound 5 chirps to warn away the potential intruder.

Remote Disarming

To Disarm the system:

Press Button 2.

- The siren/horn will chirp twice.*
- · The doors will unlock.**
- The parking lights will flash twice.*
- . The LED will turn off.

- * The siren chirps and light flashes during disarming will alert you if the system had been triggered while armed.
 - 2 chirps / 2 flashes = normal disarming
 - 3 chirps / 3 flashes = Tamper Alert system was triggered

Tamper Alert

On Disarming, if the system responds with three chirps, indicating the system was triggered, the LED will flash for 60 seconds to indicate the zone that triggered the system.

1 flash = door

2 flashes = shock sensor

3 flashes = trunk

example: flash-flash-pause-flash-flash-pause = shock sensor

Silent Arming / Disarming

Each Remote Transmitter can be individually set to Arm and Disarm the system with or without chirp confirmation at the time they are programmed into the system (see **Adding a New Transmitter into the System**).

To mute the Arming and Disarming confirmation chirps, you can Arm or Disarm the system by pressing Button 3.

Note: The confirmation chirps will only be cancelled if the system status is normal. The chirp indications for Tamper Alert and the open zone warning will not be cancelled when the system is Armed or Disarmed silently.

Arming Mode Selection

The system can be set in one of the following Arming Modes:

- Passive (automatic) Arming with chirp confirmation
- · Active Arming (by Remote Only)
- Passive (automatic) Arming without chirp confirmation

To set the Arming Mode:

- 1. Turn the ignition on.
- 2. Within 4 seconds, press the Transmitter button corresponding to desired operation.

Button 1 / 1 chirp = Active Arming

Button 2 / 2 chirps = Passive Arming with chirp Button 3 / 3 chirps = Passive Arming without chirp

Note: If no buttons are pressed for 5 seconds, Arming Mode Selection is automatically exited.

3. Turn the ignition off to save the selection.

Passive Arming

When the **Arming Mode** has been set for *Passive Arming*, the system arms itself automatically, each time the ignition is turned off and all of the doors, hood and trunk are closed.

^{**} If the Passenger Unlock Feature is installed, pressing Button 2 will unlock only the driver's door. Pressing the unlock Button 2 again unlocks all doors.

To start the Passive Arming Process:

- 1. Turn off the ignition.*
 - . The status LED will begin to flash quickly.
- 2. Open the door and exit the vehicle.
 - Once all doors are closed and the dome light is turned off, the LED will turn off.
- 3. After 20 seconds.
 - The siren will chirp (if Passive Arming with chirp is selected).
 - · The parking lights will flash.
 - The doors will lock.**
 - The status LED will flash red, indicating the system is armed.
- 4. The system is now armed.
- * The ignition must have been on for at least 10 seconds before the Passive Arming sequence will begin.
- ** If the Passive Locking feature is selected.

To temporarily disable Passive Arming, you can turn the ignition key on then off within 10 seconds. The status LED will stop flashing, and the system will not passively arm until the next time the key is on for more than 10 seconds. This feature is useful for turning off passive arming when refueling, washing the car, or if you want to sit in your car and do not want the system to arm.

Panic Mode

Allows you to instantly trigger the alarm in an emergency situation using the Remote Transmitter.

To enter Panic Mode:

- 1. Press and hold Button 1 for 3 seconds.
 - · The siren will sound.
 - The doors will unlock.
- 2. Press Button 1 again to stop panic and place system into the Armed state.
- 3. Press Button 2 to stop panic and place system into the Disarmed state.

If Panic Mode is not stopped by the Remote, it will automatically time out after 40 seconds, and the system will return to its prior Armed/Disarmed state.

Emergency Override

In case your Remote Transmitter becomes inoperable, or it is lost or stolen, you can still enter and drive your car by using the following procedure. Be sure that you have your ignition keys ready and that you know the location of the Override switch before you perform this procedure.

To override the system:

- 1. Unlock the door using the key.
- 2. Enter the vehicle.
 - Because the system is armed, the system will trigger and the siren will be sounding.

- 3. Turn ignition key on.
- 4. Within 4 seconds, press and hold the Override switch.
 - · The system will disarm.
- 5. You can now start and drive the car.

Note: During installation, your installer can program the system to give 10 second entry delay when the system Arms passively. When the door is opened while the system is Armed, the siren will give a series warning of chirps before sounding, giving you time to perform the emergency override procedure.

Automatic System Rearming

This feature, which can be turned on by your installer during the installation, insures the security of the system by protecting your car in case of an accidental disarm.

If your system becomes disarmed due to an accidental press of the Arm/Disarm Button, the system will automatically rearm if no other activity is detected within one minute.

One minute after Remote Disarming, the system will alert you with a series of chirps, then arm. (If the Passive Door Locking feature is selected during the installation, the system will also relock the doors.)

Any of the following will cancel Automatic System Rearming:

- . Turn on the Ignition.
- · Open the Trunk or Hood.
- · Activate the Auxiliary Function.

Automatic System Rearming is independent of Passive Arming and only takes place if the system was Armed (actively or passively) for at least 10 seconds and then Disarmed by the Remote Transmitter.

Remote Start Features

Remote Starting

To Remote Start the System:

- 1. Be sure the System is not in Valet Mode.
- 2. Press Button 4.
 - · The parking lights will turn on.
 - The siren will chirp 3 times (if the system is Armed, the shock sensor will turn off).
 - The ignition will turn on.
 - The engine will start and run for the duration of its programmed Run Timer.*
 - The heater or air conditioner will turn on (if turned on prior to exiting the vehicle).
 - . The LED will double flash.

*If the engine fails to start on the first attempt, it will repeat the starting procedure 2 more times.

Turning on the ignition key then pressing the brake pedal will disengage the MS2005 and allow you to operate and drive your vehicle in a normal manner.

Shut Down

Any of the following will shut down the engine when it is under Remote Start control:

- 1. Press Button 4 for 3 seconds.
 - · After the engine shuts down the doors will lock (if installed and programmed).
- 2. Press the brake pedal.
- 3. Open the hood (or trunk if connected).
- 4. Remote Start Time-Out (completion of the timed run cycle).

Stop and Go

The Stop and Go Feature allows you to remove the ignition key and exit the vehicle while keeping the engine running during short stops.

To leave the vehicle running:

- 1. Press the brake pedal and hold.
- 2. While pressing the brake pedal, push Button 4 on the Remote Transmitter for 2 seconds.
 - · The LED will flash rapidly.
 - . The parking lights will flash 5 times.
- 3. Release the brake pedal.
- 4. Remove the key from the ignition switch.
- 5. You may now exit the vehicle, arm the alarm and lock the doors.

To re-enter the vehicle and resume driver control:

- 1. Disarm the alarm by pressing Button 2 on the Remote Transmitter.*
 - · The doors will unlock.*
- 2. Turn on the ignition.
- 3. Press the brake pedal to disengaged the MS2005.
 - . The LFD will turn off.

Auto Cold Starting

The Auto Cold Starting Feature automatically starts the vehicle every two hours and runs for the preset Run Time.

To enter Cold Start Mode:

- 1. Be sure ignition is off.
- 2. Press and hold the Valet switch.
- Continue holding the Valet switch and press Transmitter Button 3 for 5 seconds then release both buttons.
 - · The parking lights will flash 5 times.
 - The engine will start and run for 30 seconds then shut down.
 - The LED will double flash.
- 4. The system will remain in Cold Start Mode until the vehicle is started using the transmitter or the Cold Start Feaure has completed all the run cycles.

Note: Pressing the brake pedal will also turn off the Auto Cold Starting Feature.

^{*}If optional keyless entry feature is installed.

Other Features

Valet Mode

Allows you to temporarily disable the security system when the car is being service or turned over to a parking attendant.

To turn Valet Mode on or off:

- 1. Turn on the ignition.
- 2. Press and hold the override switch.
- 3. While holding the override switch, turn off the ignition.
 - The siren will chirp once to indicate you have turned Valet Mode on.
 - The siren will chirp twice to indicate you have turned Valet Mode off.
- Release the override switch.

While Valet Mode is on, the LED will light solid and you can continue to lock and unlock your doors with the Remote Transmitters, as well as operate the Auxiliary Function.

For added protection, when the doors are locked using the Remote Transmitter, the system's Starter Disable circuit will activate, and the LED will emit double flashes until the system is unlocked by the RemoteTransmitter.

If the Remote Transmitter is lost, stolen, or becomes inoperable while the car is locked in Valet Mode, you can exit the Valet mode to deactivate the Starter Disable circuit.

Ignition Controlled Door Locking

For added convenience and safety, this feature automatically locks your car's doors 10 seconds after the ignition key is turned on.

To prevent you from accidentally locking your keys inside the car:

- The system will not automatically lock the doors if a door is open when the ignition key is turned on.
- The system will not automatically lock the doors if a door is opened during the first 10 seconds after the ignition key is turned on.

Ignition Controlled Door Unlocking*

For added convenience, this feature automatically unlocks your car's doors after the ignition key is turned off.

- *For personal safety reasons, this feature can be turned off by your installer.
 - . If driver's door priority is selected only the driver's door will unlock after the ignition key is turned off.

Dome Light Control

The dome light will turn on for 20 seconds when the system is disarmed (or unlocked in Valet Mode) using the Remote Transmitter.

Auxiliary Function

This function will operate regardless of whether the system is armed or disarmed and will stay active for as long as the Button 3 is held. To operate the auxiliary function, press Button 3.

Remote Sensor Bypass

The system can be set up so that in case of extreme weather conditions (such as high winds), the shock sensor can be temporarily bypassed using the Remote Transmitter, while the system is armed, to prevent false alarming.

To Bypass the sensors:

- 1. After arming the system, press Button 3 on the Remote Transmitter within 2 seconds.
 - The siren will chirp 5 times, indicating the sensors have been bypassed.
- 2. The sensors will remain bypassed until the next time the system is armed.



Reference Chart

You can use this chart to quickly identify and interpret your system's chirp indications and LED flashes.

Output	When	Status
1 chirp 1 + 4 chirps	arming arming	normal arming door, hood, or trunk is open
no chirps LED double flashes	arming Valet Mode	Valet Mode is on Starter Defeat is activated
2 chirps 3 chirps 1 LED flash 2 LED flashes 3 LED flashes	disarming disarming after Tamper Alert after Tamper Alert after Tamper Alert	normal disarming Tamper Alert - system was triggered door shock sensor hood or trunk
5 chirps continuous chirps	while armed while armed & door open	Warn Away System Triggered (Passive Arming Entry Delay)
4 chirps 1 chirps	with ignition key on in Sensor Test Mode	Sensor Test Mode is on impact detected
multiple chirps for 10 seconds	1 minute after disarming	Automatic Rearming
LED flashing quickly	ignition key off	Passive Arming sequence started

System Indications

You can use these tables to quickly identify and interpret the MS2005's parking light and LED indications.

Status LED Indications						
Flashes	Functions					
Slow	System is Armed					
Rapid	Remote Started/Running					
Solid	Valet mode					
Double	Auto Cold Starting engaged					
Triple	System Armed & Remote Started					

Parking Light Indications					
Flashes	Functions				
1	System is Armed				
2	System is Disarmed				
3	Auto Cold Starting engaged				

Technical Data

Specifications

Main Unit

Voltage: 12v, negative ground Current Consumption: <15mA Temperature Range: -40°F to +257°F Auxiliary Output Capability: 500mA Internal Relays: (4) 30A, (1) 15A

Transmitter

Current Consumption: <.00mA, standby **Battery Type:** miniature 12v, type 23A

FCC ID: MP62ZUUNGO701-702 HP92VUUNGO7000-2

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.

Ungo Security Corporation Gardena, CA USA

	Warranty Information	
Model No.:	MS2005	
Serial No.:		
Dealer Nam	ne:	
Address:		
Purchase [Date:	
	·	

Warranty Information

- Ungo Security Corporation of Gardena, California ("Ungo Security") warrants this Ungo system to be free from defects in materials and workmanship and to comply with Ungo Security's applicable printed specifications.
- 2. Ungo Security systems carry a limited lifetime warranty on the Main unit (system brain) and transmitters. The warranty is limited to Ungo Security systems that have been installed by an approved Ungo dealer and is extended to the Original Purchaser ("Owner") and to the original vehicle in which it was installed only, and is not transferable to any subsequent owner or owners of the product(s).

All other products (including those products of other manufacturers which are supplied by Ungo Security as a part of, or an accessory to, an Ungo Security-manufactured product) are warranted by Ungo Security for a period of one year from the date of sale to the Owner. For specific identification of such products contact Ungo Security.

- 3. This warranty shall not cover: (I) any damage caused by Owner's negligence or misuse of any kind, or any damage due to causes unrelated to Ungo Security's manufacturing, including, but not limited to improper servicing or repair by someone other than Ungo Security or an authorized service facility: (II) alterations or modifications to the Ungo system other than the addition of an authorized accessory: or (III) improper installation or removal from the vehicle contrary to Ungo Security's instructions.
- 4. Obligations of Ungo Security. In the event the Owner's Ungo system does not comply with this warranty, it must be returned to Ungo Security as specified below. Ungo Security will repair or replace it with a new, comparable, or reworked unit, within thirty (30) days of receipt and acceptance of such defective unit, and without cost to Owner.
- 5. To make a claim under the warranty. Owner must: (I) provide Ungo Security with written notice that the Ungo System does not comply with the warranty within thirty (30) days from the date of the Owner's discovery of the defect and (II) furnish proof of purchase and purchase date (this requirement is satisfied if Ungo Security has a completed warranty registration card on file).
- 6. Owner obligations. To obtain Warranty Service, Owner must at Owner's expense: (I) have the Ungo system removed from the vehicle by an authorized Ungo Security dealer, (II) package the unit in a reasonable manner to prevent damage to the unit during shipment; and (III) ship the unit, freight prepaid, to Ungo Security's factory or other authorized repair facility.
- Repair facility locations. To obtain the name, address and phone number of the nearest Authorized Ungo Repair Facility, Owners may contact Ungo Security at 310-327-9100.
- 8. The Owners of Ungo systems in California have the right to have the product serviced or repaired during the warranty period. The warranty period will be extended for the number of full days that the product has been out of the Owner's hands for

warranty repairs. If a defect exists within the warranty period, the warranty will not expire until the defect has been fixed. The warranty period will also be extended if the repair has not been performed due to delays caused by circumstances beyond the control of the Owner, or if the warranty repairs did not remedy the defect and the Owner notifies Ungo Security or the seller of the failure of the repairs within sixty (60) days after they were completed. If, after a reasonable number of attempts, the defect has not been fixed the Owner may return this product for replacement or a refund, subject in either case, to a deduction of a reasonable charge for usage. The time extension does not effect the protection or remedies the Owner has under other laws.

- 9. Exclusions from liability.
- (A) In no event shall Ungo Security be liable for any loss or damages beyond the original purchase price of the Ungo system, and Ungo Security specifically excludes any and all incidental and consequential damages, whether resulting from breach of warranty or contract, negligence or other conduct in connection with any sale, use, servicing or repair of a unit. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.)
- (B) There are no warranties, express, statutory or implied, which extend beyond that which is described herein, and in particular, all implied warranties of merchantability and fitness for a particular purpose, and all warranties of title and against encumbrances, are expressly disclaimed, limited and excluded as permitted by law; but in no event shall any implied warranty, whether of merchantability of fitness for a particular purpose or otherwise, have a duration exceeding that of the express warranty made herein. (Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apoly to you.)
- (C) No agent, officer, employee or representative of Ungo Security, or any other person, has authority to make any representations, promises or warranties respecting Ungo systems and their authorized accessories.
- (D) Owner has the right to bring any action at law or in equify to resolve disputes concerning, or to enforce, the provisions of this warranty. No action at law or in equify may be brought against Ungo Security for breach of warranty or contract or based on negligence of other conduct more than three (3) years from the date the cause of action has occurred.
- (E) This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.
- (F) The remedies extended herein are the sole and exclusive remedies available to Owners of Ungo systems.
- (G) Under no circumstances should this warranty, or the products covered by it, be construed as an insurance policy against loss

Ungo Security Corporation

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