

MEGALARM[®]

VEHICLE SECURITY SYSTEM

Installation & Owner 's Manual

MODEL **MEGA** 450J
Random Code System

“The **MEGA** Protection[™]”

FROM
MEGATRONiX

CALIFORNIA
U.S.A.

INSTALLATION & OWNER'S MANUAL

GENERAL SPECIFICATIONS

Power Requirements	+ 12 Volts & Negative Ground.
Fuse Ratings - Red Power wire -	15 Amps.
- White Parking Flash wire-	10 Amps.
Current Consumption	Less than 10mA
Arming Delay	3 seconds.
Alarm Timer	60 (or 30) seconds with 3 Cycles Limitation.
Automatic re-arm timer	60 seconds from disarming.
Passive arming timer	30 seconds from last doors closing.
Trigger inputs	Grounded pin switch. Optional detection device Positive door trigger. Negative door trigger.
Grounded output capacity (Orange wire)	500mA maximum.
Siren wire capacity (Brown wire)	2 Amps.
Learning limitations	4 transmitters.

INSTALLATION

A. MOUNTING THE SIREN:

1. In the engine compartment, place the siren in a location suitable for best sound results. Be careful not to mount the unit near exhaust manifolds or other "hot" equipment and moisture area.

NOTE: Preferred siren position is facing forward (toward front of vehicle). Siren should not face up.

2. Mark and drill three holes to mount the siren.

3. Route the siren cable through the firewall to the control module.

B. MOUNTING CONTROL MODULE:

Mount the control module in the underdash area where easily reached yet secure. The module should mount in as high a position as possible. Fix the module with tie-wraps or screws. Ensure the module is completely secure and will not rattle or come loose.

NOTE: Antenna placement is very important! Ensure that it is unwrapped and stretched out at least 6" straight. Best possible location is along the headliner above a door opening, keep away from metal. Since metal will interfere receiver's capability.

C. INSTALLING THE LED STATUS INDICATOR:

The led indicator status should be mounted in a highly visible area such as top of the dashboard, on top of the shifter console or on dashboard face. There must be at least 5/8" distance behind the mounting location, as the LED housing will extend back that far. Once a suitable location is chosen, drill a 5/16" hole. Run the LED wires through the hole then press the LED housing into the place. Route the LED wires to the control module.

D. INSTALLING THE OVERRIDE/VALET SWITCH:

Mount the override/valet switch in a hidden but accessible location. Drill a 1/4" hole at the location chosen and use the nut and lock washer provided to secure the override/valet switch. Plug one end of the switch to the control module.

E. INSTALLING HOOD/TRUNK PIN SWITCHES: To protect the hood, use the gold fully adjustable pin switch. Examine the perimeter of the hood seal and radiator, looking for a flat surface sheet metal, Drill a 9/32"(7mm) hole to mount the pin switch into where it will make contact with the hood's lid when the lid is closed. To protect the trunk, examine the perimeter of the trunk seal and locate a flat surface sheet metal to mount the self-tapping pin. Drill a 1/4" hole and use a 7/16" or 11mm socket to self-tap the pin switch into place.

NOTE: 1. The pin switch must be mounted to a good chassis ground.

NOTE: 2. If the system is set up as voltage drop sensing, the trunk and hood light (if equipped) will trigger the system when the openings are lifted.

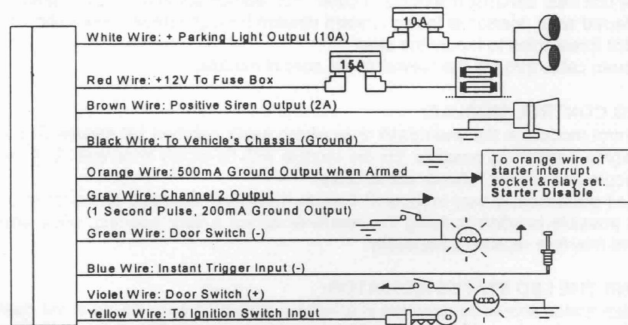
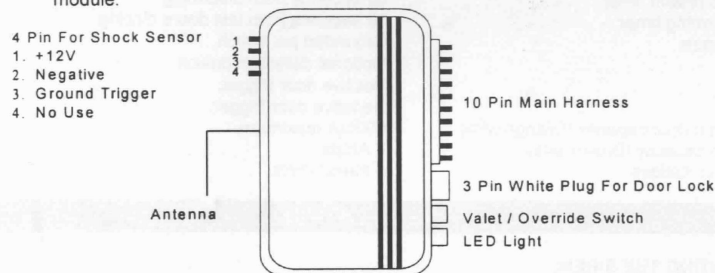
F. DECALS

Peel the decals from the paper backing and apply them to the inside of your vehicle's window. This is an effective theft deterrent. Most thieves pass by vehicles which are equipped with security system.

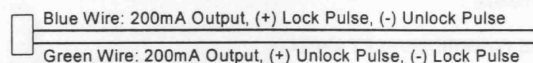
INSTALLATION DIAGRAM

CAUTION: 1. Do not connect the wire harness to the control module until all wiring to vehicle is completed.

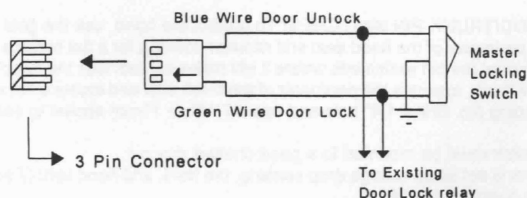
CAUTION: 2. This alarm will be armed when connected to the main 10-wire harness. After the wiring is completely installed, connect the override/valet switch to the control module first and set the override/valet switch to 'on' position then connect the main 10-wire harness to the module.



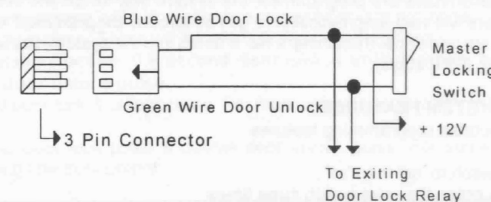
3 Pin Connector With 2 Wires For Door Lock / Unlock Output



3-Wire "Negative Trigger" Power Lock System



3-Wire "Positive Trigger" Power Lock System



PROGRAMMING

A. PROGRAMMING THE TRANSMITTERS:

It is important to remember that during programming, each individual step of the procedure must be executed within 10 seconds of the previous step. When 10 seconds time due, the system will automatically exit program mode. This is indicated by a 3 long " chirps " from the siren. The maximum programming capacity is 4 transmitters.

If your system is equipped with 2-button transmitter, please follow designated-channel setting procedures.

If your system is equipped with 4-button transmitter, please follow auto-channel setting procedures.

Designated-channel setting:

- Enter:
 - Turn the ignition key to 'on' position.
 - Push the valet switch 3 times.
 - There will be a long chirp followed by a short chirp.
 - The system is ready to program.
- Programming the 1st transmitter:
 - Press any button on the 1st transmitter.
 - There will be 1 short chirp.
 - First transmitter is programmed now and ready to program the 2nd transmitter.
- Programming the 2nd transmitter:
 - Press any button on the 2nd transmitter.
 - There will be 2 short chirps.
 - Second transmitter is programmed now and ready to program the 3rd transmitter.
- Programming the 3rd & 4th transmitters, please follow the above steps 2 or 3.
- To Exit:
 - Turn ignition key to 'off' position. Or
 - Leave it for 10 seconds.
 - There will be a 3 long chirps exit confirmation.

Auto-channel setting :

- Enter:
 - Turn the ignition key to 'on' position.
 - Press the valet switch 6 times.
 - There will be 2 long chirps and a short chirp.
 - It's ready to program now.
- Programming the 1st transmitter:
 - Press any button on the 1st transmitter.
 - There will be a short chirp.
 - First transmitter is programmed and ready to program the 2nd transmitter.
- Programming the 2nd transmitter:
 - Press any button on the 2nd transmitter.
 - There will be 2 short chirps.
 - Second transmitter is programmed and ready to program the 3rd transmitter.
- Programming the 3rd & 4th transmitters, please follow the above steps 2 or 3.
- To Exit:
 - Turn the ignition key to 'off' position. Or

- b. Leave it for 10 seconds.
- c. There will be a 3 long chirps exit confirmation.

Note: If more than 4 transmitters are programmed, the system only keeps the very last 4 transmitters. The previous transmitters will void automatically. (e.g. You already programmed 4 transmitters into the system. You may program additional transmitters No. 5 and 6 into the system, the transmitters No. 1 and 2 will be voided while No 3 ~ 6 stays).

B. PROGRAMMING SYSTEM FEATURES:

This system has 4 selectable programming features.

1. Enter:

- a. Turn the ignition switch to 'on' then 'off'.
- b. Within 10 seconds press the valet switch three times.
- c. There will be a long chirp.
- d. Again press the valet switch three times.
- e. There will be one long chirp.
- f. It is on feature programming mode.

2. Programming the first feature (Chirp on/off):

- a. Press the valet switch once, there will be one short chirp, and the LED with one flash...pause sequence.
- b. It is on selecting chirp on/off mode.
- c. Turn the ignition switch from 'off' to 'on', there will be one short chirp.
- d. The System is programmed the chirp on.
- e. If the ignition switch is turned from 'on' to 'off', there will be two short chirps. The System will be programmed in chirp off.

3. Programming second ~ fifth features, please follow the above step 2.

Note: After pressing the valet switch multiple times the siren will chirp the same number of times and the LED will also flash the same number of times to confirm what feature number you are in. The programming feature list as follows:

Press the valet switch: (# of times)	Chirp & LED flash times	Turn ignition switch from 'OFF' to 'ON' (factory preset) Confirmation : One short chirp	Turn ignition switch from 'ON' to 'OFF' Confirmation : Two short chirps
1	1	Chirp on	Chirp off (No chirp)
2	2	Active arming	Passive arming
3	3	Passive arming with door lock	Passive arming without door lock
4	4	Ignition with door lock	Ignition without door lock
5	5	Anti Car-Jacking off	Anti Car-Jacking on
6	6	0.9 seconds door lock/unlock pulse	0.9 second door lock pulse & double door unlock pulse

4. Exit:

- a. Simply press arm button, Or
- b. Leave it for 15 seconds. The system will exit with 3 long chirp confirmations.

System features:

1. Chirp on / off:

While arming or disarming the system, audible chirp(s) indicate the system's condition.

2. Active / Passive arming:

Set active arming -- The system will not automatically arm after 30 seconds when last door is closed.
Set passive arming -- The system will be automatically armed after 30 seconds of last door closing. If you program the system with passive arming feature, be sure to connect main wire harness's green (or violet) wire to the door pin switch.

3. Passive with or without door lock:

In order to carry this feature, you must set the system on passive arming first. (No. 2 feature above)
Set with door lock -- Vehicle's door will automatically lock after passive arming.
Set without door lock-- Vehicle's door will remain unlocked after passive arming.

4. Ignition with or without door lock:

Set with door lock: The vehicle's doors will automatically lock after the ignition key is turned "On" if all doors were closed. If any door is open then doors will not lock from this feature to prevent accidentally locking yourself out of the vehicle. Each time turn the ignition switch is turned 'on', after 2 seconds the door will lock. And the ignition switch is turned 'off', the doors unlock.

Set without door lock: There will be without the above functions.

5. Anti Car-Jacking off / on:

Set with anti car-jacking: When the ignition switch is in 'on' condition. Press both buttons together for 1 second, the security system will automatically enter anti car-jacking mode.

Set without anti car-jacking: There will be without the above functions.

6. Door unlock pulse selection: 0.9 second door lock & unlock pulse, or 0.9 second door lock pulse & double door unlock pulse:

Set at 0.9 second door lock & unlock pulse: For most vehicles require single pulse to activate the door unlock.

Set at 0.9 second door lock pulse & double door unlock pulse: For some vehicles require double unlock pulse to activate door unlock.

OPERATION

A. TRANSMITTER OPERATION:

1. For designated-channel setting:

Transmitter Button	System Function	Remark
Button I	Arm & lock the door or disarm & unlock the door	
Button I	Panic function	Hold button I for 3 seconds
Button I	Lock or Unlock the door	In VALET mode
Button I & II together	Silent arm/disarm	
Button I & II together	Activate car-jacking	When Ignition key 'on' position
Button II	Pop trunk release / channel 2 output	Hold button II for 2 seconds

2. For auto-channel setting:

Transmitter Button	System Function	Remark
Button I	Arm & lock the door	
Button I	Panic function	Hold button I for 3 seconds
Button I & II together	Silent arm/disarm	
Button I & II together	Activate car-jacking	System in disarm condition Turn Ignition key to 'on' position
Button II	Disarm & unlock the door	
Button III	Pop trunk release	Hold button III for 2 seconds
Button IV	Panic function	Hold button IV for 1 second
Switch code button	Switch transmitter code	For additional remote control

NOTE: For full function operation we recommend optional 4-button transmitter in auto-channel setting.

B. LED INDICATORS:

LED	Function
Off	Disarmed
Slow flashing	Armed
Fast flashing	Passive arming
On (solid)	Valet mode
2 flashes ... pause	Intrusion

C. CHIRP INDICATORS:

Chirp	Function
1 chirp	Arm
2 chirps	Disarm
3 chirps	Defective reminder
4 chirps	Disarm / Intrusion

D. PARKING LIGHT:

Parking light	Function
1 flash	Arm
2 flashes	Disarm
3 flashes	Disarm / Intrusion

E. OVERRIDE/VALET SWITCH:

The override/valet switch contains several features.

1. OVERRIDE FUNCTION:

The override/valet switch is used in case of an emergency, such as a lost or malfunction of the transmitter, you can still disarm the system as follows: First turn the ignition switch on, within 10 seconds press the override/valet switch, the siren will stop and the system will be disarmed.

2. VALET MODE:

If the vehicle is in for service or parked in an area with parking attendants, the system will not 'ARM' when the system in "valet mode".

- To do so, turn the ignition switch 'on', within 10 seconds press & hold the override/valet switch for 2 seconds, the red LED will turn 'on' to indicate the system is in 'valet mode'.
- If the system is in 'valet mode', the transmitter still can operate locking or unlocking the doors, parking lights, pop trunk release and panic function. But no alarm function.
- To return back to normal operation, turn the ignition switch 'on', within 10 seconds press & hold the 'override/valet switch' for 2 seconds, the red LED will turn off indicating the system exited the valet mode.

F. PASSIVE ARMING:

This system is equipped with an optional passive arming circuit. If you have chosen the system with passive arming, it will operate as follows:

- Turn 'off' the ignition switch.
- Leave the vehicle, and close all entrances.
- The LED status indicator will begin flashing fast, indicating automatic arming timer count down.
- Re-opening any entrance during countdown the LED stops flashing.
- Close the entrance, the LED starts fast flashing again.
- The system will count down for 30 seconds, and the alarm will become armed.

G. ALARM OPERATING CONDITION:

	ARMING	DISARMING	TRIGGER	PANIC
1 Siren	1 Chirp	2 or 4 Chirps	Sounding	Sounding
2 Parking Light	1 Flash	2 or 3 Flashes	Flashing	Flashing
3 LED Indicator	Slow Flashing	Fast Flashing	Slow Flashing	Slow Flashing
4 Vehicle Doors	Locking	Unlocking		Locking
5 Starter Interrupt	On	Off	On	On

H. ACTIVE ARMING:

- Press the arm button on the transmitter.
- The siren will chirp once after 3 seconds the system will be fully ARMED.

NOTE: DEFECTIVE SENSOR REMINDER: 3 chirps indicate defective sensor has occurred.

I. ACTIVE DISARMING:

- Press the disarm button on the transmitter.
 - The siren will chirp twice to indicate that the alarm is disarmed.
- NOTE: 1. TAMPER DISARMING:** If the alarm had been triggered, when you disarm the alarm, the siren will chirp 4 times and the parking lights will flash 3 times.
- NOTE: 2. AUTOMATIC RE-ARM:** This alarm system is equipped with an automatic re-arm circuit that will return the alarm system to a fully armed state if an entrance is not opened within 60 seconds after it is disarmed. Opening the entrance or turning ignition switch 'on' will bypass this function.
- NOTE: 3. FOR ALARMS WITH 30 SECONDS ALARM TIMER ONLY:** If you want to disarm the system during 30 seconds of alarming period. Press the disarm button twice to disarm the alarm. Pressing the disarm button once will stop the sounding siren and flashing parking lights only, but the alarm will still stay in armed mode.

J. PANIC FUNCTION:

The transmitter can be used as a remote panic switch to manually trigger the alarm in case of an emergency. Hold down the arm button on the transmitter for over 3 seconds (for 2 button transmitter), or panic button (for 4 button transmitters) the alarm will be triggered and the siren will begin to sound. To stop panic alarming, press the arm button again.

K. ANTI CAR-JACKING:

Warning: If you don't want to have car jacking in this alarm system, be sure to set car-jacking feature 'off'. (See programming features)

2-timer circuits will function as follows:

- First timer: when the ignition is turned 'on' (the engine running), press & hold transmitter's both buttons for 1 second. After 60 seconds, the siren will start alarming and the parking lights flash.
- Second timer: 30 seconds after the first timer, the siren still alarming and the parking lights flashing, the starter disable will be activated to prevent the vehicle from restarting.

Override: During first or second timer countdown, to override the car jack mode, turn the ignition switch 'off' then 'on', and within 10 seconds press the valet switch.

L. TRIGGER THE ALARM:

While the system is in armed condition, open the doors, hood, trunk or trigger the optional detectors, the siren and parking light will turn 'on' alerting of an intrusion for 60 (or 30) seconds. Then it will stop and automatically reset and re-arm. If the one of sensors or detectors is still active, the alarm system will sound a maximum of three, 60 (or 30) second cycles.

M. IGNITION CONTROL POWER DOOR LOCK SAFETY SYSTEM:

The vehicle's doors will automatically lock after the ignition key turned 'on' (if all doors are closed.) The doors will automatically unlock after the ignition key is turned 'Off'.

N. SAFETY LOCKOUT SYSTEM:

This alarm is equipped with a safety lockout system, to keep the alarm from arming while you are driving.

O. TRUNK RELEASE:

Press and hold button II on the transmitter (2 button transmitter) or press button III (4 button transmitter) for two seconds to trigger the trunk release or other electric devices.

P. POWER ON SPECIAL FEATURE:

Most of alarms will be disarmed when the car battery is disconnected and re-connected immediately. However, this alarm will be triggered and siren begin sounding. This is to prevent the thief stealing your vehicle once disconnects and re-connects the car battery.

When the ignition switch is turned 'on', within 10 seconds press the valet/override switch to delete this feature.

Note: If the system is in valet condition before the power is disconnected, the system will still remain in valet mode when the power is reconnected.

FOR USA VERSION :

This device complies with part 15 of the 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 received, including interference that may cause undesired operation.