

MM1 Installation Instructions

PROFESSIONAL INSTALLATION STRONGLY RECOMMENDED

Installation Precautions:



Roll down window to avoid locking keys in vehicle during installation



Avoid mounting components or routing wires near hot surfaces



Avoid mounting components or routing wires near moving parts



Tape or loom wires under hood for protection and appearance



Use grommets when routing wires through metal surfaces



Use a Digital Multi Meter for testing and verifying circuits. DO NOT USE A TEST LIGHT, OR "COMPUTER SAFE PROBE" as these can set off air bags or damage vehicle computers.



Technical Support (800) 421-3209
or go to
<http://techservices.codesystems.com>

FCC COMPLIANCE

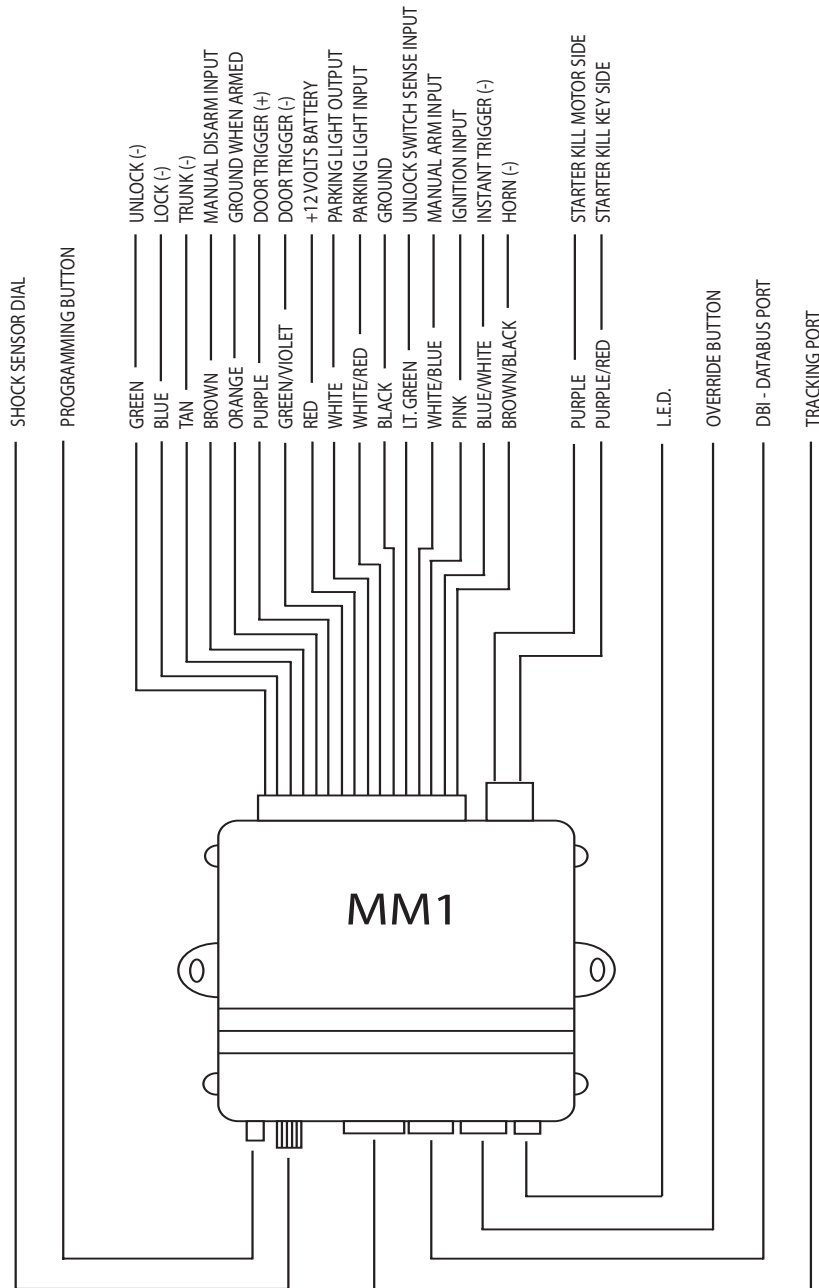
This device complies with Part 15 of the FCC rules and with RSS-210 of Industry Canada.
Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including any interference that may cause undesired operation.

Warning! Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

MM1 System Layout

MM1



SETUP & PROGRAMMING - CONSUMER MODE

Consumer Mode Transmitter Programming Bank 1 (3 Chirps)

1. Turn the ignition ON.
2. Press and hold the override button.
3. Within 10 seconds the system will chirp (3) three times.
4. Press Button 1 of each transmitter you wish to program.
5. The system will respond with 1 chirp for each accepted transmitter.
6. Pressing the override button at anytime during programming will advance to the next bank.

Note: This system has 1 button programming which programs all channels of the transmitter to the system at once.

Consumer Mode Feature Programming Bank 2 (4 Chirps) - No Transmitters

1. Turn the ignition ON.
2. Press and hold the override button.
3. Within 10 Seconds the system will chirp (3) three times.
4. Use the override button to advance to feature programming bank 2 which is (4) four chirps.
5. Use the override button to scroll through the selections in the feature bank, the system will chirp to match the feature number.
6. Press the programming button on the module to change the desired feature. The LED will flash indicating the changed feature.

Consumer Mode Feature Programming Bank 2 (4 Chirps) - With Transmitters

1. Turn the ignition ON.
2. Press and hold the override button.
3. Within 10 Seconds the system will chirp (3) three times.
4. Use the override button to advance to feature programming bank 2 which is (4) four chirps.
5. Use the CAR FIND/PANIC button to scroll through the selections in the feature bank, the system will chirp to match the feature number.
6. Press the LOCK button to change the desired feature. The LED will flash indicating the changed feature.

Defaulting the Features in Programming Bank 2

1. Turn the ignition ON.
2. Press and hold the override button.
3. Within 10 seconds the system will chirp (3) three times.
4. Press the programming button on the module, the system will chirp (4) four times indicating the features have been defaulted and is now in feature programming bank 2.

NOTE: The system will remain in programming mode as long as the ignition is on, there is no time limit. To exit programming turn the IGNITION OFF.

MM1 - Consumer Mode Programming Guide

Feature Bank 1 - 3 Chirps

Transmitter Programming

Feature Bank 2 - 4 Chirps	1 LED Flash	2 LED Flashes	3 LED Flashes	4 LED Flashes
1. Security Function	ON	OFF		
2. Passive Locks	Passive	Active		
3. Silent Choice	ON	OFF		
4. Passive/Active Arming	Passive	Active		
5. Siren/Horn	Siren	Horn		
6. Door Trigger Delay	Instant	30 sec.		
7. Chirps	ON	OFF		
8. Extended Locks	0.9 sec.	3 sec.	Dbl pulse U/L	
9. Ignition Controlled Locks	ON	OFF		
10. Tan Wire Output	Trunk	2nd Unlock	Illum. Entry	ITS Function
11. Unlock Switch Sense	NEG	POS		
12. Horn Output Timing	16mS	40mS	72mS	
13. Real Panic Sound	ON	OFF		

Note: Default settings are in **BOLD** print.

Changing option #10 to ITS Function changes the functionality of the entire system, refer to the MM1 ITS Functionality section on page 20 of this manual.

TRANSITIONING BETWEEN MODES

Transitioning into Lot Mode

1. Turn the ignition ON.
2. Press and hold the override button.
3. Within 10 seconds the system will chirp (3) three times.
4. Enter the desired VEHICLE NUMBER into the ACM keypad and then press the LOCK button.
5. The system will respond with 1 chirp.
6. Pressing the override button at anytime during programming will advance to the next bank.

Note: This system has 1 button programming which programs all channels of the transmitter to the system at once.

Use of an ACM keypad is required.

Once an ACM keypad is programmed to the system, it is automatically transitioned into Lot Mode.

Only 1 vehicle number may be learned to the system.

When in lot mode, a consumer remote can not be programmed to the system until it is transitioned to consumer mode.

All programming features will be defaulted to the factory default settings.

Transitioning into Consumer Mode

1. Open a vehicle door.
2. Enter the vehicle number into an ACM keypad.
3. Press the UNLOCK button.
4. Press and hold the # button until the system chirps 3 times.
5. Press and hold the # button until the system chirps 3 times again.
6. Within 5 seconds program a consumer remote. If no remotes are programmed in the 5 second window, the system will default to a factory keyless upgrade setting which uses the factory remote controls to arm and disarm the system.

Note: The ACM keypad must be authorized for transitioning.

Programming features 1-4 will be defaulted to the factory default settings, programming features 5-13 will retain any changes that have been made.

ON BOARD SHOCK SENSOR

Adjusting the Shock Sensor

1. Increase sensitivity by turning the adjustment dial clockwise.
2. Decrease sensitivity by turning the adjustment dial counter clockwise.

Testing the Shock Sensor

Arm the system and wait 6 seconds for the zone to stabilize, then firmly strike the vehicles bumper.

SETUP & PROGRAMMING - LOT MODE

Lot Mode Transmitter Programming Bank 1 (3 Chirps)

1. Turn the ignition ON.
2. Press and hold the override button.
3. Within 10 seconds the system will chirp (3) three times.
4. Enter the desired VEHICLE NUMBER into the ACM keypad and then press the LOCK button.
5. The system will respond with 1 chirp.
6. Pressing the override button at anytime during programming will advance to the next bank.

Note: This system has 1 button programming which programs all channels of the transmitter to the system at once.

When an ACM keypad is programmed to the system, it is automatically transitioned into Lot Mode. Only 1 vehicle number may be learned to the system.

Lot Mode Feature Programming Bank 2 (4 Chirps) - No ACM Transmitter

1. Turn the ignition ON.
2. Press and hold the override button.
3. Within 10 Seconds the system will chirp (3) three times.
4. Use the override button to advance to feature programming bank 2 which is (4) four chirps.
5. Use the override button to scroll through the selections in the feature bank, the system will chirp to match the feature number.
6. Press the programming button on the module to change the desired feature. The LED will flash indicating the changed feature.

Consumer Mode Feature Programming Bank 2 (4 Chirps) - With ACM Transmitter

1. Turn the ignition ON.
2. Press and hold the override button.
3. Within 10 Seconds the system will chirp (3) three times.
4. Use the override button to advance to feature programming bank 2 which is (4) four chirps.
5. Use the CAR FIND/PANIC button to scroll through the selections in the feature bank, the system will chirp to match the feature number.
6. Press the LOCK button to change the desired feature. The LED will flash indicating the changed feature.

Defaulting the Features in Programming Bank 2

1. Turn the ignition ON.
2. Press and hold the override button.
3. Within 10 seconds the system will chirp (3) three times.
4. Press the programming button on the module, the system will chirp (4) four times indicating the features have been defaulted and is now in feature programming bank 2.

NOTE: The system will remain in programming mode as long as the ignition is on, there is no time limit. To exit programming turn the IGNITION OFF.

MM1 - Lot Mode Programming Guide

Feature Bank 1 - 3 Chirps

Transmitter Programming

Feature Bank 2 - 4 Chirps

1 LED Flash

2 LED Flashes

3 LED Flashes

4 LED Flashes

1. Security Function	ON	OFF		
2. Passive Locks	Passive	Active		
3. Silent Choice	ON	OFF		
4. Passive/Active Arming	Passive	Active		
5. Siren/Horn	Siren	Horn		
6. Door Trigger Delay	Instant	30 sec.		
7. Chirps	ON	OFF		
8. Extended Locks	0.9 sec.	3 sec.	Dbl pulse U/L	
9. Ignition Controlled Locks	ON	OFF		
10. Tan Wire Output	Trunk	2nd Unlock	Illum. Entry	ITS Function
11. Unlock Switch Sense	NEG	POS		
12. Horn Output Timing	16mS	40mS	72mS	
13. Real Panic Sound	ON	OFF		
14. Lot Alert	OFF	ON		

Note: Default settings are in **BOLD** print.

Changing feature #10 to ITS Function changes the functionality of the entire system, refer to the MM1 ITS Functionality section of this manual.

1. 2 PIN STARTER KILL HARNESS

Starter Input (Key Side) (PURPLE/RED) / Starter Output (Motor Side) (PURPLE)

Locate the vehicle starter wire.

Verification: This wire registers voltage *only* when the key is turned to the START position. Cut the vehicle's starter wire in half.

Verification after starter wire is cut:

- KEY SIDE of starter wire registers voltage when the key is turned to the START position.
- MOTOR SIDE of starter wire registers no voltage.

- ▶ Connect the PURPLE/RED wire to the KEY SIDE of the vehicle starter wire at the ignition switch harness.
- ▶ Connect the PURPLE wire to the MOTOR SIDE of the vehicle starter wire.

2. BASIC INSTALLATION - 16 PIN MAIN HARNESS

Negative Unlock Output (GREEN) Negative Lock Output (BLUE)

Refer to the door lock section of this manual.

Trunk Release Output (-) (TAN)

This wire provides a 500mA negative output capable of driving relays. For Control of optional accessories such as trunk release.

- ▶ To Activate press and hold UNLOCK for 2 seconds.

Locate the vehicle's trunk release wire at the trunk release switch.

Verification: This wire will register either positive voltage or ground when the trunk release is activated.

Optional Programmable Settings: This output can also be used for 2nd step unlock, Illuminated Entry, or ITS Function.

Note: Changing this to ITS Function changes the functionality of the entire system, refer to the MM1 ITS Functionality section of this manual.

2. 16 PIN MAIN HARNESS CONTINUED

Manual DISARM Input (BROWN)

- ▶ This wire will DISARM the security system when a POS or NEG pulse is applied to it from an external device such as the vehicle's factory unlock motor wire.

Ground When Armed Output (-) 500mA (ORANGE)

- ▶ This wire will show Ground when the system is Armed. This wire is used for controlling window modules or additional sensors.

Positive Door Input (+) (PURPLE)

Locate the vehicle's dome light or door pin switch wire.

Verification: This wire will register positive voltage (POS) when the door is opened and the interior light is on. This wire will register ground or "0" Volts when the door is closed and the interior light is off.

- ▶ Connect the PURPLE wire to the vehicle's positive door input wire(s).

NOTE: Certain vehicles may require multiple connections. Refer to vehicle application guide

Negative Door Input (-) (GREEN/VIOLET)

Locate the vehicle's dome light or door pin switch wire.

Verification: This wire will register ground (NEG) when the door is opened and the interior light is on. This wire will register positive voltage when the door is closed and the interior light is off.

- ▶ Connect the GREEN/VIOLET wire to the vehicle's negative door input wire(s).

NOTE: Certain vehicles may require multiple connections. Refer to vehicle application guide

Battery Power (RED)

Locate 1 of the vehicle's constant 12 Volt battery wires at the ignition switch.

Verification: This wire will register voltage in all positions of the ignition switch.

- ▶ Connect the RED wire to the constant 12 Volt battery wire.

Note: Remove the 3 Amp fuse until all connections are made.

Parking Light Output (+/-) (WHITE) Parking Light Polarity (WHITE/RED)

Locate the vehicle's parking light wire at the vehicle light switch.

Verification: This wire will register positive voltage or ground when the vehicle parking light switch is turned to the ON position.

These wires are the COMMON and NORMALLY OPEN contacts of the on-board parking light relay. If the vehicle's parking lights are a +12 volt switched system, connect the RED/WHITE wire to a fused +12 volt battery source, and connect the WHITE wire to the vehicle's parking light wire. If the vehicle's parking lights are a chassis ground switched system, connect the RED/WHITE wire to a chassis ground source, and connect the WHITE wire to the vehicle's parking light wire.

2. 16 PIN MAIN HARNESS CONTINUED

Chassis Ground Source (-) (BLACK)

- ▶ Connect the BLACK wire to a solid chassis ground point using a ring terminal and self tapping screw (not supplied). Scrape away paint from the grounding point to ensure a good connection. The recommended grounding point is a metal surface in the driver's side kick panel area.

Note: Do not ground the BLACK wire with any other vehicle components.

Unlock Switch Sense (LT. GREEN)

- ▶ This wire will prevent the system from disarming the security system when a POS or NEG pulse is applied to it from an external device. This will prevent the system from disarming if it is pulsed at the same time as the BROWN (Manual Disarm Input) wire.

For example: To prevent the system from disarming from the switch on the door. Connect this wire to the unlock switch or passenger unlock motor wire

NOTE: Only required if using the factory keyless entry transmitter to ARM/DISARM this system.

Manual ARM input (WHITE/BLUE)

- ▶ This wire will ARM the security system when a POS or NEG pulse is applied to it from an external device such as the vehicle's factory lock motor wire.

12 volts Ignition Input (PINK)

Locate the vehicle's ignition wire at the ignition switch.

Verification: This wire registers voltage when the key is turned to the ON (or RUN) position. The voltage does not drop out when the key is turned to the START (or CRANK) position.

- ▶ Connect the PINK wire to the vehicle's Ignition wire.

Instant Trigger Input (-) (BLUE/WHITE)

This wire is a GROUND input for an external sensor or secondary pin switch.

Verification: This wire when connected will trigger the security system

Horn Output (-) 1Amp (BROWN/BLACK)

Locate the vehicle's horn wire at the steering column.

Verification: This wire will register at positive voltage and register ground when the horn switch is pressed.

- ▶ Connect the BROWN/BLACK wire to the vehicle's horn wire.

3. DOOR LOCKS

Negative Unlock Output (GREEN)

Negative Lock Output (BLUE)

Negative Second Door Unlock Output (TAN)

The door lock / unlock outputs are designed to control several different types of systems which may require additional parts. Please review the wire and location chart to see which type of door lock system is in your vehicle. The most common types are shown in the diagrams below.

Negative Switching and Negative Switching with 2-step unlock feature:

All Door Lock and Unlock: Locate the lock / unlock wire at the vehicle's lock / unlock switch.

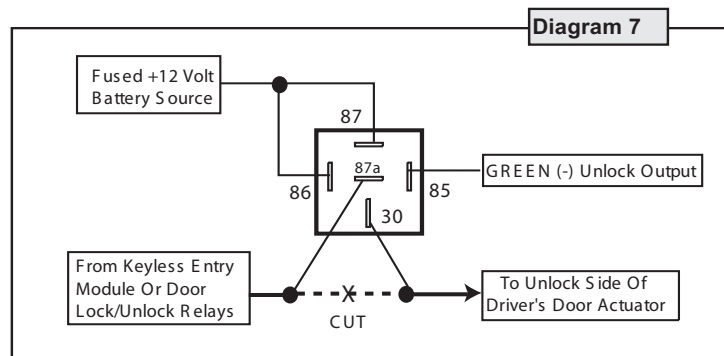
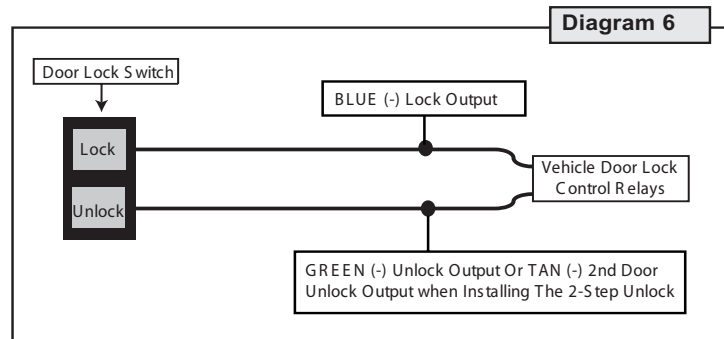
Verification: These wires will register ground when the Lock and Unlock switches are activated.

Driver's Door Unlock: Locate the unlock motor wire directly from the actuator inside the driver's door.

Verification: This wire will rest at ground and register positive voltage when the driver's door is unlocked.

- Connect the GREEN and BLUE or TAN wires shown in diagram 6 below.

Note: When adding the 2 step unlock feature the TAN 2nd door unlock wire will be used to unlock all vehicle doors on the second press of unlock. This feature must be turned on in programming. An additional SPDT relay (not supplied) is required. Connect the relay as shown in diagram 7 below to unlock the driver's door on the first press of unlock.



3. DOOR LOCKS

Negative Unlock Output (GREEN)
Negative Lock Output (BLUE)

Negative Lock Output (BLUE)

Negative Second Door Unlock Output (TAN)

Positive Switching and Positive Switching with 2-step unlock feature:

All Door Lock and Unlock: Locate the lock / unlock wire at the vehicle's lock / unlock switch.

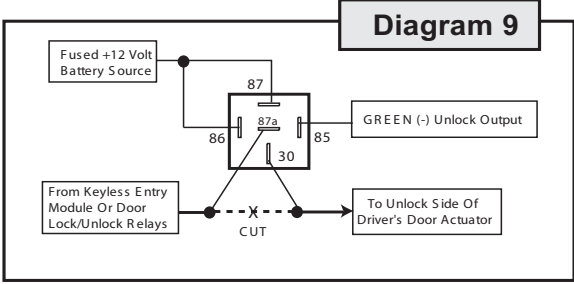
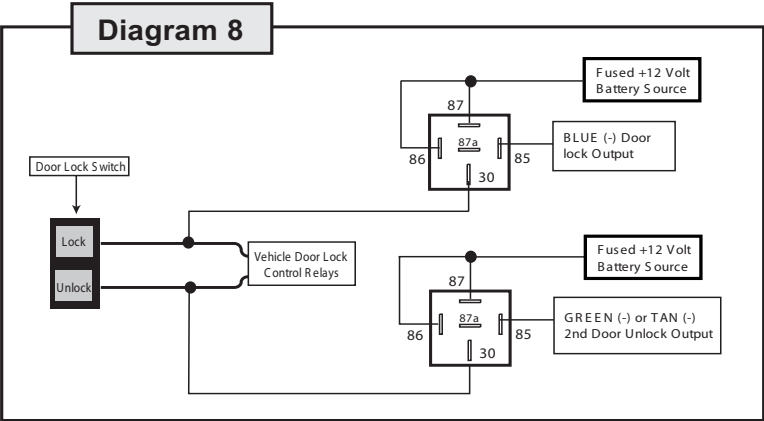
Verification: These wires will register positive voltage when the Lock and Unlock switches are activated.

Driver's Door Unlock: Locate the unlock motor wire directly from the actuator inside the driver's door.

Verification: This wire will rest at ground and register positive voltage when the driver's door is unlocked.

- Connect the GREEN and BLUE or TAN wires shown in diagram 8 below.

Note: When adding the 2 step unlock feature the TAN 2nd door unlock wire will be used to unlock all vehicle doors on the second press of unlock. This feature must be turned on in programming. Three additional SPDT relays (not supplied) are required. Connect the relays as shown in diagram 9 below to unlock the driver's door on the first press of unlock.



3. DOOR LOCKS

Negative Unlock Output (GREEN)

Negative Lock Output (BLUE)

Negative Second Door Unlock Output (TAN)

Reverse Polarity (5-Wire Doorlocks) and Reverse Polarity with 2-step Unlock

All Door Lock and Unlock: Locate the lock / unlock wire at the vehicle's lock / unlock switch.

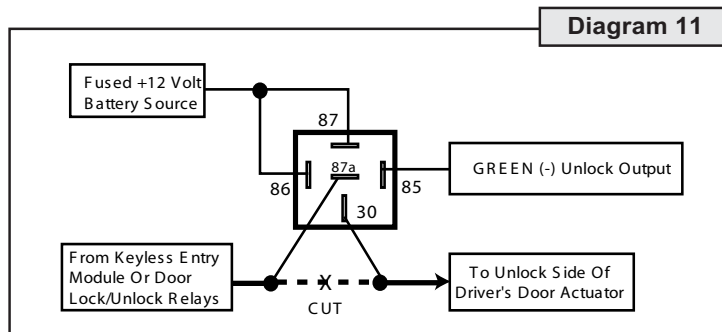
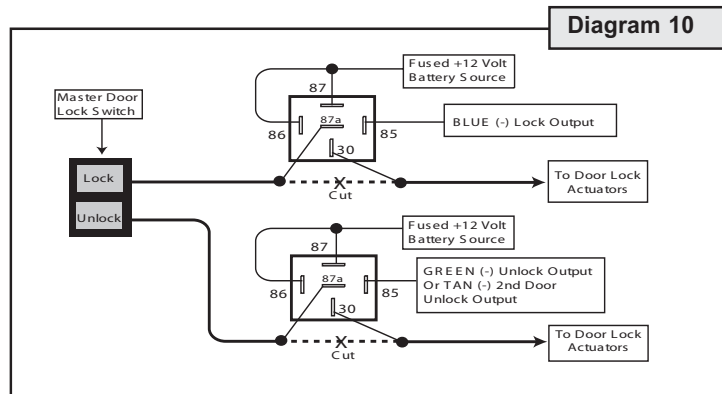
Verification: These wires will rest at ground and register positive voltage when the Lock and Unlock switches are activated.

Driver's Door Unlock: Locate the unlock motor wire directly from the actuator inside the driver's door.

Verification: This wire will rest at ground and register positive voltage when the driver's door is unlocked.

- Connect the GREEN and BLUE or TAN wires shown in diagram 10 below using (2) SPDT relays (not supplied).

Note: When adding the 2 step unlock feature the TAN 2nd door unlock wire will be used to unlock all vehicle doors on the second press of unlock. This feature must be turned on in programming. An additional SPDT relay (not supplied) is required. Connect the relays as shown in diagram 11 below to unlock the driver's door on the first press of unlock



Note. Optional Code Alarm door lock interface part # DLRK is available for this application.

3. DOOR LOCKS

Negative Unlock Output (GREEN)
Negative Lock Output (BLUE)

Negative Second Door Unlock Output (TAN)

One Wire Negative Multiplexed and One Wire Negative Multiplexed with 2-step Unlock Feature

All Door Lock and Unlock: Locate the lock / unlock wire at the vehicle's lock / unlock switch.

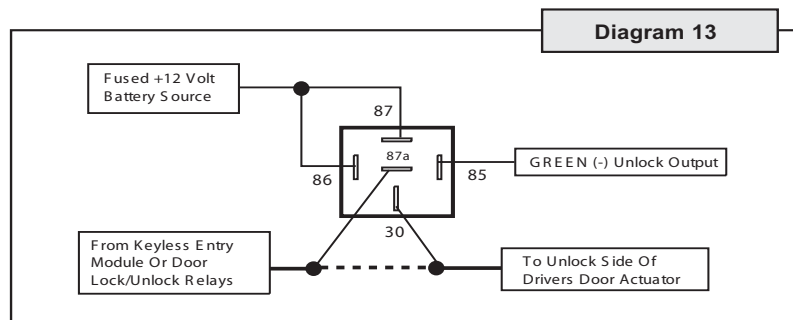
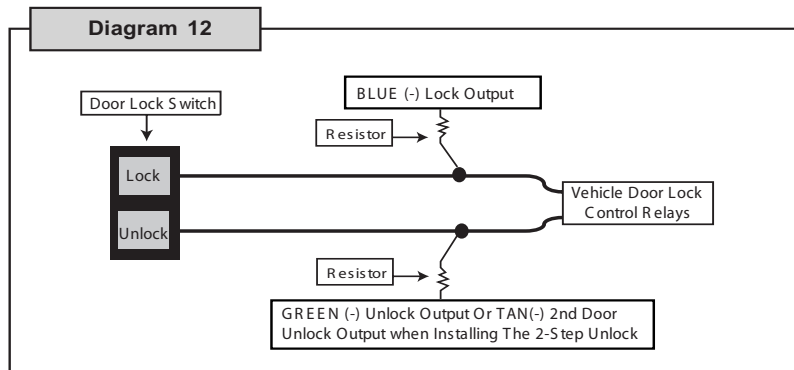
Verification: This wire will show variable ground when the switch is activated. Please consult the wire and location chart for specific resistor values for your vehicle.

Driver's Door Unlock: Locate the unlock motor wire directly from the actuator inside the driver's door.

Verification: This wire will rest at ground and register positive voltage when the driver's door is unlocked.

- Connect the GREEN and BLUE or TAN wires shown in diagram 12 below using (2) SPDT relays (not supplied).

Note: When adding the 2 step unlock feature the TAN 2nd door unlock wire will be used to unlock all vehicle doors on the second press of unlock. This feature must be turned on in programming. An additional SPDT relay (not supplied) is required. Connect the relay as shown in diagram 13 below to unlock the driver's door on the first press of unlock



Note. Optional Code Alarm door lock interface part # DLRK is available for this application.

3. DOOR LOCKS

Negative Unlock Output (GREEN)
Negative Lock Output (BLUE)

Negative Second Door Unlock Output (TAN)

One Wire Positive Multiplexed and One Wire Multiplexed With 2-step Unlock Feature

All Door Lock and Unlock: Locate the lock / unlock wire at the vehicle's lock / unlock switch.

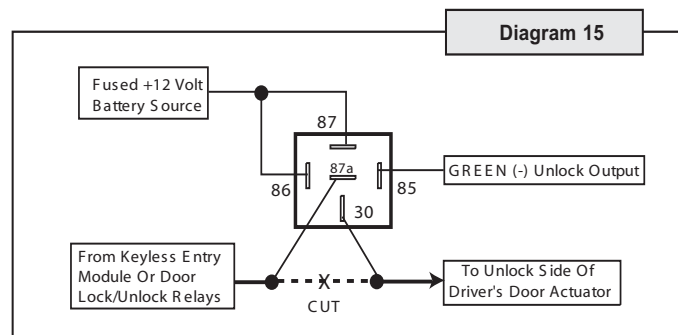
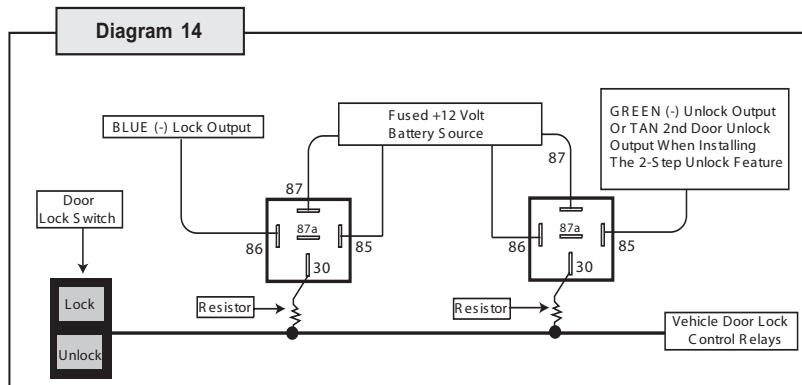
Verification: This wire will show variable positive voltage when the switch is activated. Please consult the wire and location chart for specific resistor values for your vehicle.

Driver's Door Unlock: Locate the unlock motor wire directly from the actuator inside the driver's door.

Verification: This wire will rest at ground and register positive voltage when the driver's door is unlocked.

- Connect the GREEN and BLUE or TAN wires shown in diagram 14 below using (2) SPDT relays (not supplied).

Note: When adding the 2 step unlock feature the TAN 2nd door unlock wire will be used to unlock all vehicle doors on the second press of unlock. This feature must be turned on in programming. An additional SPDT relay (not supplied) is required. Connect the relay as shown in diagram 15 below to unlock the driver's door on the first press of unlock.



Note. Optional Code Alarm door lock interface part # DLRK is available for this application.

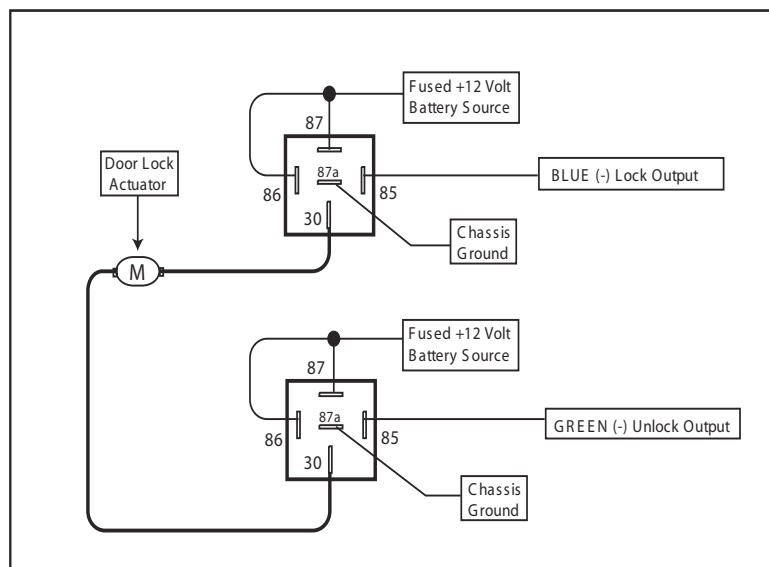
3. DOOR LOCKS

Negative Unlock Output (GREEN)
Negative Lock Output (BLUE)

Negative Second Door Unlock Output (BLUE/GREEN)

Adding Aftermarket Actuators

- After installing aftermarket actuators, (not supplied). Connect the GREEN and BLUE wires shown in the diagram below using (2) SPDT relays (not supplied).



Note. Optional Code Alarm door lock interface part # DLRK is available for this application.

4. ACCESSORY CONNECTORS

2 Pin Override Push-Button Switch: (Blue Connector)

The BLACK and GRAY twin lead wires loaded in the two pin blue connector are the ground supply and override input of the Remote Start unit. Drill a 1/4" hole and mount this switch in an easily accessible location under the driver's dashboard.

2 Pin LED Harness: (White Connector)

The RED & BLUE wires loaded into the two pin mini white connector control the anode and cathode of the dash mounted LED. Drill a 1/4" hole and mount the LED in an easy to see location on the dashboard. Be careful to check to make sure that there is enough clearance behind the panel you are drilling into.

4 Pin Tracking Port: (Off White Connector)

This 4 pin port is used for connecting the PROPT20 Pursuitrak GPS system.

4 Pin Data Bus Interface Port: (Brown Connector)

This 4 pin port is used for Code Alarm Door Lock and Transponder Databus Interfaces to communicate with the vehicle's Databus. When using the DBI port to control the Code Alarm Door Lock and Transponder Interface modules the following options may be available. Please refer to the D2D (Data to Data) function list available per vehicle on the tech service web site.

Door Trigger	Trunk/Hatch Open
Keyless Entry Control	Dome Light Supervision
Factory Alarm Arm / Disarm	Manual Arm / Disarm Inputs (factory keyless controls system)

5. SYSTEM POWER-UP PROCEDURE

1. After all connections are complete, turn the vehicle's ignition key to the ON position.
2. Insert the 3 Amp fuse into the respective fuseholder.
3. Turn the ignition key to the OFF position.

6. System Testing

1. Follow each instruction below.
2. Verify that the system operates as indicated under each instruction. Refer to the system owners manual.
3. Check the appropriate wire connections and/or fuses if the unit fails to perform a specific function. Also check that any options pertaining to the function are programmed properly.

Security Operation

Press LOCK once:

1. Doors lock.
2. Courtesy lights (if on) shut off.
3. Unit checks to see if doors, hood or trunk are open. If open, siren (or horn) sounds once, parking lights flash once, and system enters pre-arm mode.

Pre-arm mode:

1. The unit will wait for the open door, hood or trunk to be closed. The LED is solid during pre-arm.
2. If the entrance is secured, the siren/horn will sound again, parking lights will flash once, and the system will arm.
3. If the entrance is not secured after 4 minutes, the siren/horn will sound again, parking lights will flash once, the system will arm, and the defective trigger or entrance will be ignored.

Note: If entrance is secured after 4 minutes, the system will immediately begin to monitor the entrance for intrusion.

If the above conditions are not present:

1. Vehicle starter is disabled.
2. Siren (or horn) sounds twice / parking lights flash twice.
3. LED (Red light) flashes slowly for duration of arm cycle.
4. After 5 seconds, unit monitors all entrances and sensors.

If door, sensor, hood/trunk or ignition input is triggered:

1. Siren/horn sounds for 30 seconds or until UNLOCK is pressed.
2. Parking lights flash.
3. If the alarm system is triggered, pressing UNLOCK (once) will end the 30-second cycle.

Pressing UNLOCK after a full 30 second trigger cycle has completed, the horn will honk 4 times and the LED will flash a number of times to indicate which input triggered the alarm. Turning on the ignition or pressing the valet/override button will reset the LED flashes, pressing the valet/override button will also honk the horn to match the LED flashes before it resets.

Number of flashes:

- 1 - Interior Theft Sensor (Shock Sensor)
- 2 - Door Input
- 4 - Trunk input
- 5 - Ignition

6. System Testing Cont.

Press DISARM:

1. Doors unlock.
2. Factory alarm (if equipped) is turned off.
3. Siren/horn sounds once/ parking lights flash once.
4. Courtesy lights turn on for 30 seconds, or until ARM is pressed or ignition is turned on.
5. Vehicle starter is enabled.

Press DISARM twice:

Passenger doors unlock if using 2-stage unlock.

Press CAR FIND/PANIC:

Siren/horn sounds 5 times.

Press and hold CAR FIND/PANIC for 2 seconds:

Siren/horn sounds and lights flash for 30 seconds or until any remote control button is pressed.

Press and hold UNLOCK:

Trunk or hatch opens, or other device activates.

If the Ignition Controlled Locks option is set to On:

Doors lock when all doors are closed and the ignition is turned ON.

Doors unlock when ignition is turned OFF.

7. Mounting the Module / Finishing the Installation

1. Attach the module to the module mounting clip.
2. Mount the module to a brace or wire harness under the dash. The module and harnesses must be clear of moving parts.

Installation Complete.

MM1 ITS Functionality

MM1 ITS Introduction

The MM1 may be used as a MM1 ITS (Interior Theft Sensor) and when doing so it is designed to honk the horn if a light impact is detected or trigger the vehicle's factory alarm if a harder impact is detected.

Note: The vehicle MUST have a factory alarm that is triggered by opening the vehicle's door.
Option #10 must be changed in the MM1 programming bank for this to function as the MM1 ITS.

MM1 ITS ACTIVATION

Optional Warn Away

The optional Warn-Away Trigger is active after the ignition key is turned off and the dome light shuts off after exiting the vehicle. When a light impact is detected the system will briefly honk the vehicles horn. If at any time a door is opened (dome light "on"), the Warn-Away Trigger will be bypassed until the ignition key is cycled "ON" and "OFF". This feature prevents the Warn-Away chirps of the vehicle's horn when the customer/user enters the vehicle. The Warn-Away Trigger will reactivate when the ignition key is cycled "ON" and "OFF" again.

Factory Alarm Trigger

The MM1 ITS Factory Alarm Trigger is active 5 minutes after the ignition is turned off and the factory alarm has been set. When a heavy impact is detected the MM1 ITS will pulse the vehicle's door trigger wire to active the factory alarm.

Valet Mode

Valet Mode deactivates both the optional Warn-Away and Factory Alarm Trigger. To turn Valet Mode ON, turn the ignition key ON/OFF three times. To turn Valet Mode "OFF", turn the ignition key ON/OFF three times.

16 Pin Harness Connections

TAN - Factory Alarm Trigger: Connect this to a wire which triggers the vehicle's factory alarm system such as the door ajar, hood or trunk wire.

PURPLE and GREEN/VIOLET - Door Inputs (+/-): Connect one of these wires to the vehicle's dome light wire.

RED - +12 Volt Input: Connect this wire to constant +12 volt source.

BLACK - Ground Input: Connect this wire to chassis ground.

PINK - Ignition Input: Connect this wire to +12 volt ignition source.

BROWN/BLACK - Warn Away Horn Output: Connect this wire to the vehicle's horn wire.

NOTES:

The MM1 ITS uses the PURPLE or GREEN/VIOLET (Door Input) to DISARM the optional Warn-Away feature. The PURPLE or GREEN/VIOLET must sense all of the doors for the MM1 ITS to DISARM properly. It is recommended to only use the Warn-Away feature with vehicle's that have an "ALL" door trigger output in the vehicle.

MM1 ITS LAYOUT

MM1 / ITS Configuration

