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QUICK INSTALLATION GUIDE

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The wiring diagram is at the middle of this guide.

MANUAL OR AUTOMATIC TRANSMISSION SETUP

This module may be installed on vehicles with manual or automatic transmissions. It is originally configured for manual transmissions. If the vehicle you are working on is automatic, it is mandatory to make a few quick and easy modifications before the unit is connected. In the event that the configuration requires changes afterwards, a complete reset (page 7) will be necessary before those changes become effective.

To install this unit in a vehicle with a MANUAL transmission:

- 1. Make sure the **Yellow** loop on the PC board is connected (default).
- 2. Connect the Orange handbrake wire located on the 12-pin harness to the vehicle handbrake circuit
- 3. Connect the Blue/White (+) door input OR the Grey (-) door input wire located on the 12-pin harness to the vehicle door pin wire which monitors all the doors of the vehicle (only use 1 of the 2 door trigger inputs). Make sure the Purple TACH wire is wired to a tach source the TACH wire MUST be hooked up when the module is set for a manual transmission.
- 4. Make all your regular connections.
- 5. Power up the unit by first inserting the 5-pin connector, then the 6-pin connector and finally the 12-pin connector. The parking lights will flash 4 times.
- 6. When programming the transmitter, the parking lights will flash 5 times quickly.
- Upon the first successful remote start, the system will lock the transmission settings to manual mode.

To install this unit in a vehicle with an **AUTOMATIC** transmission:

- 1. Cut the loop on the pc board (Yellow wire).
- 2. Make sure the Orange handbrake wire is not connected to any of the vehicle circuits.
- Make all the regular connections.
- Power up the unit by first inserting the 5-pin connector, then the 6-pin connector and finally the 12pin connector. The parking lights will flash 4 times.

Notice

The manufacturer will accept no responsibility for any electrical damage resulting from improper installation of the product, be that either damage to the vehicle itself or to the unit. This unit must be installed by a certified technician using all safety devices supplied. Please note that this guide has been written for properly trained Autostart technicians: a certain level of skills and knowledge is therefore assumed. Please review the installation guide carefully before beginning any work.

Warnin

Before installing the unit, if installing on a vehicle with a <u>manual</u> transmission, test that the OEM Door Switch contacts of the vehicle work well, and that the Parking Brake system operates properly. If installing on a vehicle with an <u>automatic</u> transmission, test that the vehicle does not start when the gearshift lever is in the "Drive" position. If it starts in gear, reset the remote starter to manual transmission.

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- When programming the first transmitter, the parking lights will flash 5 times quickly then give 2 slow flashes
- Upon the first successful remote start (once the yellow loop has been cut), the system will lock the transmission settings to automatic mode.

Note: If upon pressing the **START** button the parking lights give 3 slow flashes, make sure that the Orange handbrake wire is not connected, the hand brake is not engaged and that the yellow loop is cut and isolated/taped.

DIESEL VEHICLE WARNING: The G-Plug wire must not be connected when the brake is detected through D2D.

PUSH-TO-START

Disabled by default, PTS mode is a special feature that is intended to facilitate the remote starter installation on most Push-To-Start vehicles. With PTS mode enabled, the remote starter will offer the installer a negative start output (to pulse the vehicle's PTS switch), as well as a (+) brake switch output (no external relay necessary). With PTS enabled, the White/Green wire on the 12-pin harness becomes your negative (-) PTS switch output. It will give a one second output intended to pulse the PTS switch. Also, the Purple crank output becomes your brake switch output (this will turn the brake circuit **ON** for crank).

PTS TAKEOVER

Without the PTS takeover, pressing the brake pedal after remote starting shuts down the engine (to prevent theft). Here are the new steps for this new Takeover mode:

Regular PTS takeover from Remote start:

- 1. Remote start the engine.
- Press and enter the vehicle.
- 3. Within the pre-programmed time limit (1.5 min or 3 min, see Mode 4), press the brake pedal.

PTS takeover from Idle mode:

- I. With the engine running, press 📵, 🖬 or 🗹 to engage Idle mode.
- 2. Exit the vehicle; engine runs without the key.
- 3. IMPORTANT: After exiting the vehicle, press
- 4. Press and enter the vehicle.
- 5. Within the pre-programmed time limit (1.5 min or 3 min, see Mode 4), press the brake pedal.

HYBRID OPTION

Warning: For automatic transmissions only.

This option is disabled by default. It can be enabled in Mode 3 of the programming options.

HYBRID mode is a special feature that is intended to facilitate the remote starter installation on most Hybrid vehicles. With HYBRID mode enabled, the remote starter will give a 4-second crank output on its crank wire (It will not rely on VTS to stop the crank cycle). The only way to shorten the 4-second crank output is to program a tach signal to the remote starter. If a tach signal is programmed, the remote starter will act like normal (the HYBRID feature should be used when no tach reference is available from the vehicle or the bypass being used at the time of installation).

Valet mode. Make sure the remote car starter is able to properly enter and exit valet mode. When
setting the remote car starter into valet mode, pressing the lock button will lock the doors without
activating the starter kill. (Refer to the user guide for further information on valet mode.)

☐ Most comebacks are the result of misunderstandings about how a product works or performs. Take the time to properly explain all functions and features to the customers before they leave the premises. Doing this will save time and money.

TROUBLESHOOTING

Problem: D2D brake could not be detected.

Cause: The unit is locked in W2W brake.

Solution: Reset the remote starter power.

Problem: The remote does not respond to the remote starter.

Cause: The remote and antenna are not paired nor programmed to the module.

Solution: Do the transmitter programming procedure.

Problem: The remote confirmed the successful pairing but the commands are not executed by the remote

starter.

Cause: The remote is paired successfully, but not properly programmed to the remote starter.

Solution: Reset the module and redo the transmitter programming procedure.

Problem: During transmitter programming, the parking lights are flashing to confirm the successful pairing but

the remote failed to play the melody.

Cause: The remote is not properly paired to the antenna.

Solution: Reset the module and redo the transmitter programming procedure.

Problem: The remote starter responds to commands but the remote does not provide confirmation feedbacks.

Cause: The transmitter was improperly programmed to the remote starter.

Solution: Reset the remote starter and redo the transmitter programming procedure.

DIAGNOSTICS - PARKING LIGHT FLASH TABLE

Diagnostic table for start failure

Diagnostic table for start failure.	
Parking lights flashes	Cause
1	Ready mode is not activated.
(Manual transmission only)	
1 slow → 2 quick	The system is set to valet mode.
1 slow → 2 quick → 2 quick	The system is in Home valet
3	The parking brake is active.
(Automatic transmission only)	Yellow loop is connected.
4	Brake wire is active.
5	Tach signal is not programed.
(Manual transmission only)	
6	A tach signal is detected before Ignition.
10	Hood wire is active.

Diagnostic table for shutdown.

Parking lights flashes	Cause		
1	Runtime has expired.		
2	Shutdown by remote.		
2	Ready mode is activated.		
3	Failed start (VTS or tach failure, depending on selected).		
4	Brake shutdown.		
10	Hood shutdown.		
Flash for 30 sec.	Panic mode.		
Flash for 60 sec.	Alarm triggered.		

Note: The installer can also use the PRG-1000 to diagnose shutdown and remote start failures. Refer to the PRG-1000 manual guide.

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- 2. With the engine running, apply the parking brake once and release the brake pedal.
- 3. Within 20 sec. of engaging the parking brake, or **4** press and hold transmitter (SmartStart™ uses only SmartStart™ icon).
- 3. Make sure to release the brake pedal.

twice within 10 sec.

The parking lights will flash 3 times quickly and remain lit.

2. With the engine running, apply the parking brake

The parking lights will flash 3 times quickly and remain lit. Release the button.

- 4. Remove the key: the engine will keep on running.
- 5. Exit the vehicle. All doors should be closed, including the hood and trunk.

•								
NOW THERE ARE THREE POSSIBLE OPTIONS								
OPTION 1: No lock	OPTION 2: Manual shut down (default)	OPTION 3: Automatic shut down						
The engine stops.	The engine keeps going until you press either; • to lock the doors and shut down the engine; • to unlock the doors and shut down the engine; • to shut down the engine without affecting the doors.	The engine runs for 8 sec. then locks the doors before finally shutting down the engine, without user interaction.						
WARNING: The vehicle is not armed or locked down.	WARNING: Engine runs until the preprogrammed run time expires.	WARNING: Do not leave your keys in the vehicle!						
6. The Parking lights will flash twice to indicate Ready mode is set.								

The system will exit ready mode if a door, the hood or the trunk is opened, if the brake pedal is pressed, if the parking brake is disengaged or if the ignition key is turned to the IGNITION ON (RUN) position.

- Remote-start the engine and listen for starter drag. If the starter cranks for too long, carry out another tach programming procedure or VTS adjustment (page 6).
- ☐ Hood switch shutdown. With the vehicle running under the remote car starter, open the hood; the vehicle should shut down. If it does not shut down, check the hood pin-switch and its connector.
- ☐ Brake shutdown circuit. With the vehicle running under the remote car starter, press and release the brake pedal. The engine should shut down immediately. If it continues to run, check the brake switch
- Parking brake shutdown circuit (manual transmissions only). With the vehicle running under remote start, disengage the parking brake. The engine should shut down immediately. If the engine continues to run, check the parking brake switch connection.
- OEM alarm control. Make sure the module is able to arm and disarm the OEM alarm (if applicable).
- Door locks and trunk testing. Make sure each of these options respond to the transmitter (if installed).
- Door pin shutdown circuit (manual transmissions only). Make sure the system exits ready mode when each door is opened. (Test each door.)
- □ Starter kill option. Sit inside the vehicle with all doors closed. Arm the vehicle, then try to start the engine with the key. The engine should not start. If the engine starts, rewire the starter kill to reach proper operation.

TRANSMITTER PROGRAMMING PROCEDURE

111	TRANSINITIES PROGRAMMING PROCEDURE						
Pro	ocedure	Confirmations					
1.	Turn the key to IGN ON.						
2.	Press, release then press and hold the antenna programming button until the antenna LED starts flashing rapidly.	The Parking lights will stay ON for 20 seconds. From this point, the installer has 20 seconds to complete steps 3-4.					
3.	Pairing and programming the remote Press and hold f or Side button until the remote generates a long beep.	Main remote (2-way remote): PAIR MODE text will display on the remote LCD screen for a period of 30 seconds. Companion remote (1-way remote): The transmit LED will start flashing every 2 seconds for a period of 30 seconds.					
4.	Turn the key to OFF-ON-OFF.	The parking lights will turn OFF.					
5.	Press Lock.	Main remote (2-way remote): The remote LCD will display PASSED accompanied by a melody. The parking lights will flash 5 times to confirm successful programming and pairing of the remote. Companion remote (1-way remote): The parking lights flash 5 times and the remote will play a melody to confirm successful programming and pairing of the remote.					
Pro	oceed to Step 6 to exit programming or repeat Step 3	3 to continue programming other remotes.					
	To exit programming, press and release the antenna programming button.	The antenna LED will stop flashing rapidly.					

Note: To program the remote to a second vehicle that has the same system, in step 5, press the Trunk button instead of Lock.

TRANSMITTER PROGRAMMING PROCEDURE USING PRG-1000

Important: Make sure to use the new PRG-1000 T-harness (HAR-PRG664- sold separately). Note that all remotes must be paired to the antenna (steps 1, 2, 3) before using the PRG-1000 to program the remotes to the remote starter module.

Pro	ocedure	Confirmations			
1.	Press, release then press and hold the antenna programming button until the antenna LED starts flashing rapidly.				
2.		Main remote (2-way remote): PAIR MODE text will			
	Press and hold f or Side button until the remote generates a long beep.	display on the remote LCD screen for a period of 30 seconds.			
3.	Press Lock.	Main remote (2-way remote): The remote will play a melody.			
Once steps 1, 2, 3 are completed on all remotes, you must exit pairing mode (step 4) then use PRG-1000 to program the remote to the remote starter. Follow the PRG-1000 screen for programming instructions.					
4.	To exit pairing, press and release the antenna programming button.	The antenna LED will stop flashing rapidly.			

Note: To program the remote to a second vehicle that has the same system, in step 3, press the Trunk button instead of the Lock button.

ENTERING PROGRAMMING MODE

These are the programming buttons:

The Hood Pin	The Antenna Programming Button (the A.P.B.)

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The Programming Button (a.k.a. the P.B.)



The **P.B.** is located on the side of the module. This push button **mimics the hood-pin switch** in order to avoid having to get out of the vehicle to press the hood-pin switch. The P.B. will work only when the hood pin is installed and the hood is up (ground on the hood line).

Complete step by step module programming

- Entering Programming Mode
- 2) Entering Programming Options
- Programming the options
- Adjusting the Horn output (if installed)
- Setting up the TACH, VTS or Multi-speed Tach

Entering programming mode using the Hood Pin (or the P.B.)	Entering programming mode using the A.P.B.
 Press and hold the hood pin down for 4 seconds. 	 Make sure the hood is closed.
Release the hood pin. The parking lights will turn ON for 1 second.	Turn the ignition key to the IGNITION ON (RUN) position.
While the parking lights are ON, press the hood pin once more and release immediately. The parking lights will come ON solid for 20 seconds. You now have 20 sec. to select a submenu.	Within 5 seconds, press the programming button on the antenna twice for 1 second each time. The LED will come ON solid for 20 seconds. You now have 20 sec. to select a submenu.
Note 1: To exit programming mode, close the hood.	Note 1: To exit programming mode, press on the antenna button once (the LED will come ON) and release.

Note 2: For vehicles that require the ignition to be turned ON to activate the brake circuit, follow these steps to select a submenu:

 After flashing the hood pin, turn the ignition ON and wait for the parking lights to come ON (4 seconds). Then, press the brake pedal to access the sub-menus.

Please note that the wire to wire brake communication is locked once an analog signal is detected on the remote starter's brake input. To detect D2D brake again, after being locked in "wire to wire" mode, make sure no connection is made at the brake input wire, unplug the remote starter's power and then plug it back in.

ENTERING PROGRAMMING OPTIONS

- 1. In programming mode (page 3) the parking lights will stay on for up to 20 seconds.
- 2. Before the lights go out, press and hold the brake pedal and then press one of the following buttons.
 - LOCK to access mode 1:

- TRUNK to access mode 3:
- **UNLOCK** to access mode 2;
- START/STOP to access mode 4.
- 3. The parking lights will flash 1, 2, 3 or 4 times to confirm entry into a mode.
- 4. Release the brake pedal.

Once the desired mode has been selected, the unit will fall (by default) into function #1 of that mode; you can now select the option you want in function 1. Once this option has been chosen, the unit will move on to function 2 of the mode selected, and so on.

Follow these steps to program crank time adjustment, if needed:

- 1. In programming mode (page 3).
 - Before the lights go out, press and hold the brake pedal and press the LOCK and UNLOCK buttons simultaneously — the parking lights will flash 4 times. **Do not release the brake pedal.**
- 2. Press the LOCK button if you wish to increase the time delay or the UNLOCK button if you want to decrease it. The time delay will be increased or decreased by 50 ms and the parking lights will flash once every time the LOCK or UNLOCK button is pressed.
- 3. Press the **TRUNK** button to save the settings you have entered.
- 4. Release the brake pedal the time delay programming is now complete.

MULTI-SPEED TACH PROGRAMMING (IF INSTALLED)

- 1. In programming mode (page 3).
- 2. Before the lights go out, press and hold the brake pedal and press the LOCK and UNLOCK buttons simultaneously — the parking lights will flash 4 times. At that point, release the brake pedal.
- 3. Start up the engine and allow the vehicle to reach regular engine idle speed.
- 4. Once the engine is running at normal idle speed, press the brake pedal and keep it down until you hear the parking lights flash 5 times.
- 5. Release the brake pedal —the tach programming is now complete.

Caution! - Tach jumper settings:

Some new vehicles have a higher TACH voltage threshold, which would fall out of the normal TACH trigger circuit of the remote car starter. Changing the jumper to TACH Threshold HIGH will allow the module to properly detect the TACH signal. BUT, if you are having trouble with the TACH, please call our tech support team. Problems requiring changing the TACH jumper settings are very rare.

RESETTING THE MODULE

WARNING! By resetting the module, all programmed values are erased — i.e.: tach, transmitter as well as programming options. The programming options are returned to their default values.

- 1. Enter programming Mode (page 3).
- 2. Once having reached the programming mode, quickly press and release the brake pedal until the parking lights flash 8 times.

BYPASS

Remote starters of this series have the ability to work in two way mode (D2D) with Xpresskit bypass modules. They also offer one way communication with Xpresskit, ADS and Fortin brand bypass modules. Note: For Hardware 5.0 and higher there can only be one bypass connected to the unit.

SMARTSTART™

When teamed up with a SmartStart™-compatible module, remote start features can be accessed using a smartphone. These features include lock/unlock, engine start/stop, trunk release, panic and alarm notifications. For alarm notifications, the Xpresskit™ bypass option (D2D) must be enabled.

To use these features, connect the SmartStart™ module to the SmartStart™ port located at the back of the remote start module (see the wiring diagram). The SmartStart™ feature must be enabled using the programming options list found in this guide.

TESTING

Quick installation Guide

Before putting the vehicle back together, it is recommended to check that the system operates properly. The following testing procedures should be used to verify proper installation and operation of the system. Before testing, make sure that all connections are soldered and that the unit is plugged in.

Make sure the system properly enters and exits ready mode:

Ready mode is a sequence of steps that must be followed in order to allow manual transmission vehicles to be remote started. To get into ready mode:

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If Ready Mode is enabled by remote						ote	If Ready Mode is enabled by handbrake		
		-					 		1 4 1 1 1

1. Ensure that all the doors, hood and trunk are closed. Make sure that the gear selector is in the neutral position. http://www.autostart.ca

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OPTION 2*	Toggle ON/OFF – max 30 sec.		
OPTION 3	Toggle ON/OFF – max 4 min. (only when running remotely)		
OPTION 4	Negative Starter output		
FUNCTION 4 – AUX 3 / Trunk output			
OPTION 1	1-sec. output		
OPTION 2*	Constant output		
OPTION 3	Trunk output with disarm and rearm pulses		
FUNCTION 5 – External Trigger			
OPTION 1	Zone 3 with disarm/rearm (TRUNK monitor)		
OPTION 2*	Key sense		
OPTION 3	Engine START/STOP		
OPTION 4	SmartStart™		

MODE 4	* INDICATES DEFAULT	SETTING		
FUNCTION 1 – Alarm control				
	OPTION 1	ENABLED (HORN must be enabled in MODE 3 FUNCTION 2, option 1 or 3)		
	OPTION 2*	DISABLED		
FUNC	FUNCTION 2 – Ready Mode Option / Hybrid Option			
	OPTION 1	ENABLED by handbrake		
	OPTION 2*	ENABLED by remote		
	OPTION 3	Hybrid option ENABLED		
FUNC	FUNCTION 3 – Ready Mode completion option			
	OPTION 1	Open/Close door		
	OPTION 2*	Remote		
	OPTION 3	Open/Close door with automatic door-lock		
FUNC	FUNCTION 4 – Bypass			
	OPTION 1	ADS (1-way D2D)		
	OPTION 2*	Xpresskit (2-way D2D)		
	OPTION 3	Fortin (1-way D2D)		
FUNCTION 5 – Push-To-Start option				
	OPTION 1	Push-To-Start ENABLED		
	OPTION 2*	Push-To-Start DISABLED		
	OPTION 3	Push-To-Start ENABLED with take over within 1.5 min.		
	OPTION 4	Push-To-Start ENABLED with take over within 3 min.		

HORN ADJUSTMENT

Note: Before adjustment, horn option must be installed and enabled.

- 1. In programming mode (page 3).
- Press and hold the brake pedal, then simultaneously press the UNLOCK and START/STOP buttons the horn will chirp 5 times.
- 3. Release the brake pedal.
- 4. To change the timing:
 - 1. To increase the horn pulse by 3 ms, press the **LOCK** button.
 - 2. To decrease the pulse by 3 ms. press the **UNLOCK** button.
 - 3. To increase the pulse by 10 ms, press the **START/STOP** button.
 - 4. To decrease the pulse by 10 ms, press the **TRUNK** button.
- To save the new settings: press LOCK and UNLOCK simultaneously. If 3 chirps are returned, the new setting has been saved.
- 6. You have 20 more seconds to select one of the sub-menus if needed.

SETTING UP THE TACH

VIRTUAL TACH ADJUSTMENT

Warning: For automatic transmissions only.

Virtual Tach System combines the latest microcontroller technology and a complex algorithm that took years to develop. VTS is able to effectively monitor the engine starting sequence and release the starter at the right time without physically connecting the tach wire to the remote starter. The VTS constantly monitors the data and readjusts itself automatically in order to maximize its capability to start the engine properly in any weather or deteriorating battery condition.

OPTIONAL TIME DELAY ADJUSTMENT IN VIRTUAL TACH SYSTEM

LOCK to access option 1;

- TRUNK to access option 3;
- UNLOCK to access option 2;
- START/STOP to access option 4.
- After the programming of any mode is completed, the parking lights and the LED on the antenna will turn ON for 20 sec. During those 20 seconds, select one of the sub-menus if needed.

PROGRAMMING OPTIONS

MODE 1	* INDICATES DEFAULT	SETTING	
FUNCTION 1 – Ignition-controlled door locks			
	OPTION 1*	Ignition lock DISABLED	
	OPTION 2	Ignition lock ENABLED	
	OPTION 3	Ignition unlock only	
	OPTION 4	Ignition lock only	
FUNCTI	FUNCTION 2 – Secure Lock		
	OPTION 1*	Secure lock DISABLED	
	OPTION 2	Standard secure lock ENABLED	
	OPTION 3	Smart secure lock ENABLED	
FUNCTI	ON 3 – Starter K	ill	
	OPTION 1*	Passive arming (60 sec.)	
	OPTION 2	Active arming	
	OPTION 3	Passive arming (3 min.)	
		k / unlock pulse timing	
	OPTION 1*	7/10-sec. lock / unlock pulses	
	OPTION 2	4-sec. lock / unlock pulses	
	OPTION 3	7/10-sec. lock pulse and two 1/4 -sec. unlock pulses	
	OPTION 4	1/10-sec. lock / unlock pulses	
	ON 5 – LED flas		
	OPTION 1*	ENABLED (LED turns OFF when Ignition is turned ON)	
	OPTION 2	DISABLED	
	OPTION 3	ENABLED (recommended when starter kill is installed) (will only flash when Starter kill	
		engages [depends on Mode 1, Function 3 programming])	

MODE 2 *IND	ICATES DEFAULT S	SETTING	
FUNCTION 1 – Safe Start			
OP ⁻	TION 1	Safe start ENABLED	
OP.	TION 2*	Safe start DISABLED	
	TION 3	Swap Start	
FUNCTION 2	FUNCTION 2 – Engine Run Time		
OP ⁻	TION 1	Run time = 3 minutes in gas mode / 8 minutes diesel mode	
OP.	TION 2*	Run time = 15 minutes in gas mode / 20 minutes diesel mode	
	TION 3	Run time = 25 minutes in gas mode / 30 minutes diesel mode	
FUNCTION 3	3 –Idle Mode	& Turbo Mode (auto) / Turbo Mode (manual)	
OP ⁻	TION 1	Idle mode & turbo mode DISABLED (AUTO) / turbo mode DISABLED (MANUAL)	
OP*	TION 2*	Idle mode & turbo mode ENABLED (AUTO) / turbo mode DISABLED (MANUAL)	
	TION 3	Idle mode & turbo mode ENABLED (AUTO) / turbo mode ENABLED (MANUAL)	
FUNCTION 4 – Engine type and Cold Weather Mode			
	TION 1	Diesel mode with 20-minute run time in cold weather mode (30-sec. wait to start delay)	
OP.	TION 2*	Gas mode with 3-minute run time in cold weather mode	
	TION 3	Diesel mode with 8-minute run time in cold weather mode (18-sec. wait to start delay)	
OP ⁻	TION 4	Diesel mode with 8-minute run time in cold weather mode (7-sec. wait to start delay)	
FUNCTION 5 – Disarm option			
OP ⁻	TION 1	Disarm with Ignition, Accessory and Ground out	
OP.	TION 2*	Disarm only	

MODE 3	* INDICATES DEFAULT SETTING			
FUNC	FUNCTION 1 – Home Valet			
	OPTION 1	Home valet ENABLED		
	OPTION 2*	Home valet DISABLED		
FUNCTION 2 – AUX 1 Programming				
	OPTION 1	Horn confirmation upon the 2 nd press of the LOCK button		
	OPTION 2*	Priority door access		
	OPTION 3	Horn confirmation upon the 1st press of the LOCK button		
	OPTION 4	Negative Accessory output		
FUNCTION 3 – AUX 2 Programming				
	OPTION 1	Constant output		

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WIRING SCHEMATIC

